

Latin Ptolemaic Writings on
Astronomy and Astrology up to AD 1700

Ptolemaeus Arabus et Latinus

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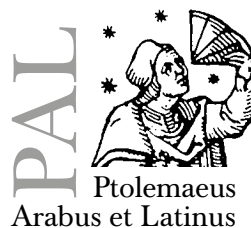
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Latin Ptolemaic Writings on Astronomy
and Astrology up to AD 1700

A Comprehensive Survey of the Works,
Manuscripts and Early Printed Editions

Volume II

David JUSTE

BREPOLS

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Woodcut (detail) from *La geografia di Ptolemeo Alessandrino*, Venice, 1548.

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Part III

Manuscripts

Aberdeen, University Library, 364

s. XV¹ (1426 for f. 2–148, cf. colophon). **Or.:** Aachen (f. 2–148, cf. colophon; the scribe responsible for this section also copied the *Almagest* in MS $\rightarrow$ Berlin, SBPK, lat. fol. 753). **Prov.:** St Maximin of Trier in 1503 (cf. f. I^ar and ex-libris f. 1r and 2r); James Melvin (1795–1853), who bequeathed his library to Marischal College, Aberdeen (inner front cover).

Parchment and paper, I + 151 + I^a f., sporadic modern numbering, two hands (f. 2–148 and 149–51). Blank: I, 1, I^a (except for ex-libris and a few notes).

Astrology and astronomy: **Ptolemaica (2ra–148vb)**; Hyginus, *De astronomia*, incomplete (149ra–151va).

Bibl. M. R. James, *A Catalogue of the Medieval Manuscripts in the University Library Aberdeen*, Cambridge, 1932, 118–19.

2ra–148vb ‘Dixit Egydeus de Tebaldis Lonbardus de civitate Parmensi: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (2rb) Tractatus primus glose Haly Abenrudiani super prima parte libri Quadripartiti Ptolomei Pheludiani. (2va) Verba que dixit sapientissimus Ptolomeus in arte iudiciorum... (3vb) Capitulum primum primi tractatus libri quatuor partium Ptolomei Pheludiani. Incipit propositio prima. (4ra) Res, o Mizori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — (144rb) posuit in hoc libro sunt re(144va)gule et radices quibus ars ista componitur. Explicit. Benedictus sit Deus gloriosus et sublimis et Deus illum dirigat qui scripsit. Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, et prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Explicit Quadripartitum Ptholomei cum glosa Haly, scriptum Aquis [word added above the line by the scribe] anno domini nostri Ihesu Christi 1426 incompleto, 8 die Febr<uarii>.’
= **Haly Abenrudian, Glosa super Quadripartito Tholomei (C.2.2).**
Translator’s preface, 2ra–2rb; Haly’s preface, 2rb–3vb; I, 3vb–39vb; II, 39vb–71ra; III, 71ra–114vb; IV, 114vb–144va; Haly’s appendix, 144va–148vb. Glosses and corrections by the scribe, especially in the first book, rare thereafter.

Arras, Bibliothèque Municipale, 844 (47)

s. XIII^{ex}–XIVⁱⁿ (c. 1300). **Prov.:** monastery St Vaast of Arras by 1628 (ex-libris f. 3r).

Parchment, 118 f., four contemporary hands (f. 2, 3–75, 76 and 77–118), decorated initials (reserved initials on f. 2r–2v and 76r). Numerous folia are missing throughout, something which affected all texts in this MS.

Astrology: **Ptolemaica (2ra–2va)**; Albumasar, *Introductorium maius*, tr. John of Seville (3ra–53va); Pseudo-Albertus Magnus, *Speculum astronomie* (53vb–57ra); **Ptolemaica (58ra–75ra)**; Albumasar, *De magnis coniunctionibus* (76ra–118ra). Blank: 1 (except for ‘Albumazar’ f. 1r), 57v, 75v, 76v, 118v (except for notes).

Bibl. *Catalogue des manuscrits de la bibliothèque de la ville d'Arras*, Arras, 1860, 23 (no. 47); *CGMB*, IV, 333–34; Zambelli/Caroti 1977, 95; Lemay 1995–1996, IV, 160–63; Paravicini Bagliani 2001, 9.

2ra–2vb ‘<P>rimi libri capitula 34. <P>rimum in collectione scientie iudiciorum astrorum... (chapter index). <R>erum, Iesuri, in quibus est pronosticabilis scientie stellarum perfectio magnas et precipuas duas esse deprehendimus — enim huius artis earum prognosticationes solis experimentis frequenter agno<scunt>...’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**, I.1–2. Abrupt end towards the middle of ch. 2 due to missing folia. No glosses.

58ra–75ra ‘Primi libri capitula 34 [*corr. in sunt XXXIII*or]. Primum in collectione scientie iudiciorum astrorum... (chapter index). Rerum, Iesuri, in quibus est pronosticabilis scientie stellarum perfectio magnas et precipuas duas esse deprehendimus... (67va) Finit tractatus III libri III B'th'i [Batholomei?] feliciter. Tu autem domine miserere Platoni. Deo gracias. — (74vb) in hoc loco huic libro Deo volente finem i<m>ponere non incongruum existimamus. Explicit liber III Ba [deleted] Ptholomei in iudicandi dis(75ra) cretione per stellas de futuris in hoc mundo constitutionis et destructionis contingentibus. Deo gratias. Et perfecta est eius translatio de Arabico in Latinum a Tiburtino Platone, cui Deus parcat, die Veneris, hora tertia XX^a die mensis Octobris, anno domini MCXXXVIII^o, XV die mensis Saphar, anno Arabum DXXXIII^o, in civitate Barchinona. Et Deus nos custodiat et actus nostros dirigat. Tu autem, domine, miserere nostri. Explicit.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**, I, 58ra–62vb; III, 63ra–67va; IV, 67va–75ra, with major lacunae, including the whole of Book II and most of Book III, due to one or several missing folia between f. 58 and 59 (I.2–3), 60 and 61 (I.6–9), 62 and 63 (I.14–III.10, several missing folia), 63 and 64 (III.10), 64 and 65 (III.11–12), 65 and 66 (III.13), 66 and 67 (III.13–14) and 71 and 72 (IV.6–8). Occasional short marginal notes by one or two later hands.

Augsburg, Universitätsbibliothek, Cod. II.1.4^o 77

s. XV^{ex} (horoscope of revolution for 1485, f. 52v). **Or.:** Swabia. As demonstrated by Hilg, 471, several texts of this MS were copied on “Vatican, BAV, Pal. lat. 1369, a MS copied in southern Germany c. 1444 and which later belonged to Johannes Virdung of Hassfurt. **Prov.:** Maihingen, monastery of Maria Mai, in the 17th c. (see Hilg, 472).

Paper, 67 f., a single hand, except perhaps for f. 19r–22r and 50r–52v. Several folia are missing, at least before f. 2 and 24.

Astrology mainly: astrological notes in German (1r); ***Ptolemaica*** (2r–3v); Hermes, *Centiloquium* (4r–5v); medical recipe in German (6r); *Capitula Almansoris* (7r–9v); Bethen, *Centiloquium*, chs 1–69 (10r–10v); ‘Item dicendum quod cum Luna coniungitur Saturno ipsa

est infortunata...' (11r–11v); Gergis, *De significatione septem planetarum in domibus* (11v–12v); Jafar, *De pluviis et ventis* (12v–15v); Jafar, *Liber imbrum* (15v–18v); Pseudo-Pietro d'Abano, *Annulorum experimenta*, fragment (19r–20v); Thebit Bencora, *De proprietatibus quarundam stellarum* (21r–22r); 'Prima mansio Lune Caput Arietis incipit in primo gradu Arietis et finit in 13° gradu eiusdem...' (23r); Albumasar, *Flores*, last lines only (24r); Messahallah, *Liber receptionis*, preface and ch. 1 (25r–25v); Thebit Bencora, *De imaginibus* (26r–28v); Zael, *Liber temporum* (28v–31v); Zael, *De electionibus* (31v–37v); Albumasar, *Flores*, excerpts 'Iupiter cum prefuerit anno et fuerit dominus eius...' (38r–39v); alchemical recipe in German (40v); list of 12 astronomical and astrological works (41r); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (42r–47r); collection of excerpts on elections from Pseudo-John of Seville's *Epitome totius astrologie*, Zael's *De electionibus* and Haly Abenragel's *De iudiciis astrorum* (47r–49r); excerpts from Leopold of Austria's *De astrorum scientia* (50r–50v); judgement on a nativity (51r–52v), with a revolution horoscope for 1485 (52v); 'Ptholomeus: Locus Lune in ipsa nativitate est gradus ascendens de circulo hora casus spermatis...' (53r); astronomy 'Differentiam centri differentis solaris a centro terre...' (54r–54v); Messahallah, *Liber receptionis*, ch. 10 'Cum volueris scire vitam nati iussu Dei, si natus fuerit in die incipe a Sole...' (55r–56v); 'Nota de electione. Item electio: In omni re quam voleris est aptari ascendens...' (57r); Messahallah, *De revolutionibus annorum mundi* (58r–64v). Blank: 1v, 6v, 22v, 23v, 24v, 40r, 41v, 49v, 53v, 57v, 65–67.

Bibl. H. Hilg, *Lateinische mittelalterliche Handschriften in Quarto der Universitätsbibliothek Augsburg. Die Signaturengruppen Cod. I.2.4^o und Cod. II.1.4^o*, Wiesbaden, 2007, 471–81.

2r–3v '... maior fortuna in nativitate est ex stellis fixis et angulis alkire et dustoria — si vero fuerit immobilis erit proditor ex aliqua civitate eiusdem climatis.'
 = **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*),
tr. Plato of Tivoli (C.3.1.1), v. 46–100, without the commentary. The
 beginning of the text is gone due to missing folia. No glosses.

Avignon, Bibliothèque Municipale, 1022 (341)

s. XV (Moulinier-Brogi dates the MS to the 13th c. by mistake, cf. John of Eschenden named twice f. 8v and Geoffrey of Meaux's work f. 203v–206r). **Prov.:** Avignon, Dominican church (f. 1r).

Paper, 225 f., a single neat hand, painted initial and decoration f. 33r.

Astrology: Albumasar, *Flores*, incomplete (1ra–8va); 'De pronosticatione futurorum secundum Iohannem Scenden. Pronosticatio per revolutiones annorum mundi sic poterit haberi. Dixit Iohannes Escenden quod omnes astrologi...' (8va–11vb); 'Et quoniam principalis intentio gloriosissimi Galieni in tertio Creticorum...' (12ra–13ra); 'Si volueris scire per instrumentum loca Solis et Lune et eorum coniunctiones et oppositiones...' (13ra–13vb); *Astronomia Ypocratis* (13vb–17rb); astrological symbols for the signs and planets (17rb); 'Florum astronomie ad medicinam tractatus incipit. Incipiunt flores astronomie valentes in opere medicine extracti per magistrum Geraldii Hyspani. Capitulum primum. Que sunt consideranda in qualibet egritudine. Et primo parem numerum volo...' (17rb–21ra); 'De floribus astrologie tractatus

incipit. *Ars artium est quarum que divine astrologie...* (21ra–29vb); Guillelmus Anglicus, *De urina non visa* (29vb–32vb); Guido Bonatti, *Liber introductorius ad iudicia stellarum* (33ra–203va); Geoffrey of Meaux, *Compendium astronomie iudicialis* (203va–206rb); **Ptolemaica** (209ra–224vb and 224vb–225va); ‘Impedimentum vero Lune que huic ducatum...’ (225va–225vb). Blank: 206v–208v.

Bibl. *CGMB*, XXVII, 478–80; Lemay 1999, I, 328–29; Moulinier-Brogi 2011, 185.

- 209ra–224vb ‘Incipit Centilogium Ptholomey cum expositione Heremani. Mundanorum ad hoc et ad illud mutatio corporum celestium... Scientia namque astrorum ex te etc. Dicit Ptholomeus astrologum non debet dicere rem specialiter sed universaliter... (209rb) Quod dixit Pth<olome>us, ex te et illis est, significat quod ille qui res futuras prenoscere desiderat — et quanto melius quivimus exposuimus.’
= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), ‘**Mundanorum**’ version (C.3.1.3). Glosses by the scribe, substantial on f. 216v, 218v and 224r–225r. These glosses include, in connection with v. 51, Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 216v (see below).
- 216v ‘Locus Lune etc. Dicit Ptho<lomeu>s et Hermes quod locus Lune in hora nativitatis — fuit expertus.’
= **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5), as a gloss to v. 51 of the *Centiloquium* above.
- 224vb–225va ‘Ptholomeus in hoc libro tricas et tricarum nomina posuit... Stelle cum caudis sunt novem que mundum movent — et per mortem, per gladium atque decollationem.’
= **Pseudo-Ptolemy**, *De cometis* (B.4). Substantial glosses by the scribe.

Avranches, Bibliothèque Municipale, 235

s. XII^{med} (between c. 1145 and 1155). **Or.:** Normandy, in a scriptorium related to Chartres, perhaps the abbey of Mont-Saint-Michel. **Prov.:** abbey of Mont-Saint-Michel.

Parchment, I + 79 f., a single hand, except for f. 5r–16r (see Holtz, 29). 14 f. are missing between current f. 77 and 78.

Scientific texts, mainly astronomical: table of contents, 13th c. (Iv); **Ptolemaica** (1r–26r); geometrical diagram, with verses ‘Ista rotunda triangula forma Iohannis...’ (26r); compilation on the astrolabe, mainly based on *Sententie astrolabii* ‘Incipit de nominibus laborum laboratorum in astrolapsu. In primis almuncantarar, id sunt circuli et arcus...’ (26v–39v); Martianus Capella, *De nuptiis Mercurii et Philologiae*, VIII.814–87 (40r–46v); table for computing the zodiacal position of the Moon (47r); measurement of the altitude of the Sun in Coutances at the spring equinox (47r); compilation of excerpts dealing with various subjects, including alchemy, organ pipes, colours, winds, abacus and metrology ‘De mensura caerae et metallorum fusilis operis. In fundentis operibus cuiusque ponderis...’ (47v–53v); Hermann of Reichenau, *De mensura*

astrolabii (54r–58r); *De utilitatibus astrolabii* attr. Ptolemy: ‘Capitula Ptolomei de astrolabio. I. De utilitatibus astrolabii... Regulae Ptolomei super astrolabium...’ (58r–66r); chapters from *Sententie astrolabii* ‘Ianus et Apollo dum sibi invicem pariter...’ (66r–68r); ‘Incipit compositio astrolapsus secundum Ptolomaeum. Iubet rex Ptolomaeus bene...’ (68r–69v); *De mensura astrolabii* ‘Item alia compositio. Phylosophi quorum sagaci studio visibilium perceptio...’ (69v–71v); Ascelinus Teutonicus, *Compositio astrolabii* (71v–73v); Berengarius, *De horologio viatorum* (73v–75v); Martianus Capella, *De nuptiis Mercurii et Philologiae*, VIII.837 and 844–45 (75v–76r); Odo of Tournai, *Rithmomachia* (76v–77v); Albumasar, *Ysagoga minor*, last page only (78r); two excerpts on alchemy and organ pipes, related to f. 47v–53v (78v); comm. on psalms (79r–79v, added folio 12th–13th c.). According to the 13th-c. table of contents (Iv), Albumasar’s *Ysagoga minor* (78r) was preceded by Thebit Bencora’s *Liber prestigiorum*, cf. ‘Astronomicorum prestigiorum Thebidis secundum Ptolomeum et Hermetem per Adelardum Bathoniensem ex Arabico translatus.’

Bibl. CGMB, X, 112–14; Bubnov 1899, xix; Leonardi 1960, 3–4 (no. 4); W. Bergmann, *Innovationen im Quadrivium des 10. und 11. Jahrhunderts. Studien zur Einführung von Astrolab und Abakus im lateinischen Mittelalter*, Stuttgart, 1985, 228–31; A. Borst, *Das mittelalterliche Zahlenkampfspiel*, Heidelberg, 1986, 287–88; Burnett 1987, 179 (no. 36); C. Jeudy, Y.-F. Riou, *Les manuscrits classiques latins des bibliothèques publiques de France*. I: *Agen-Evreux*, Paris, 1989, 231–41; Pingree 1997, 9–10; L. Holtz, ‘Ms. Avranches, B.M. 235: étude codicologique’, in *Science antique, science médiévale (Autour d’Avranches 235). Actes du colloque international (Mont-Saint-Michel, 4–7 septembre 1998)*, eds L. Callebat, O. Desbordes, Hildesheim–Zürich–New York, 2000, 17–61 (all articles in this volume deal with various aspects of the content of the MS).

1r–26r ‘Incipit preceptum canonis Ptolomei. Intellectus clymatum polis epissime requires si inveneris platos civitatis — (16r) requires superiorem et inferiorem et addes aut deduces’ (followed by the tables f. 17r–26r).
= **Preceptum canonis Ptolomei (A.7.1)**. Occasional short marginal notes by the scribe. F. 16v is blank.

Barcelona, Biblioteca de Catalunya, 634

s. XV¹ (before November 1446, when the MS was apparently purchased, cf. note f. 92v).
Or.: southern, probably Catalonia (Barcelona?), where the MS was towards the middle of the 15th c. (cf. added notes in Catalan f. 92v).

Parchment and paper, 92 f., a single hand. Several folia have been cut out, four between f. 27–28 and five between f. 78–79.

Astrology and astronomy: table of contents, early modern hand (1r); added astronomical notes and diagrams (2r–2v); Sacrobosco, *De sphaera* (3r–14v); ‘Secundum Rabi Abraam [Abraham bar Hiyya/Savasorda] de prima forma cursus planetarum. Declaratum est in libris antiquorum philosophorum...’ (15r–23r); ‘De naturis et proprietatibus planetarum. Sciendum quod planete sunt VII...’ (23r–25v); ‘De amicitia vel inimicitia planetarum. Item sciendum quod in mundo sunt quatuor anguli...’ (25v–26v, ed. Burnett, ‘Aristoteles/Hermes’, 225–28);

‘Quando Luna intrat quodlibet signum quis efectus sequatur. Nil capiti facias Aries cum Luna refulget...’ (27r); ‘Predictorum signorum quedam sunt mobilia, quedam stabilia...’ (27r–27v); ‘De qualitatibus et naturis signorum. Aries in capite, de prima triplicitate...’, end gone (27v); sphere of Apuleius/Pythagoras (28r); diagram: 12 signs and 12 houses (28r); onomancy ‘a I, b II, c III... Si vis scire cuius signi seu de quo signo est quilibet homo, computa numerus litterarum...’ (28v); two tables for computing the zodiacal position of the Moon (28v–29r); star table (31v); Ibn al-Šaffār, *De opere astrolabii*, tr. John of Seville (32r–40v); Prophatius Judeus, *Quadrans novus* (41r–47v); Bonetus or Jacob ben David Bonjorn [Jacob ben David Yom Tov], astronomical tables for Perpignan 1361 (48r–78r); end of an astrological text describing the native of the 28 lunar mansions, same type as the *Alchandreana*, expl. ‘... et erit dives in senectute’ (79r); **Ptolemaica (79v–83v)**; ‘Tractatus Davidis Iudei [David ben Yom Tov]. Quia ut dicit Tolomeus in Centiloquio, vultus huius seculi sunt vultibus celestibus similes...’ (84r–90r, ed. Bos/Burnett/Langermann, 64–83). Blank: 1v, 29v (except added notes), 30r–31r, 78v (except added calculations) and 90v–92v (except for added notes f. 92v).

Bibl. *Biblioteca de Catalunya. Inventari de manuscrits*, s.l.n.d., I, 173–74; A. Cordoliani, ‘Los manuscritos de cómputo eclesiástico en las bibliotecas de Barcelona’, *Analecta Sacra Tarraconensia* 23 (1950), 103–30: 123–24; Kristeller 1963–1992, IV, 489; C. Burnett, ‘The *Kitāb al-Išāmātīs* and a Manuscript of Astrological and Astronomical Works from Barcelona (Biblioteca de Catalunya, 634)’, in Burnett 1996, VII, 1–19: 1–6; Lemay 1999, I, 231–32; C. Burnett, ‘Aristoteles/Hermes, *Liber Antimaquis*’, in *Hermetis Trismegisti astrologica et divinatoria*, eds G. Bos, C. Burnett et al., Turnhout, 2001 [Corpus Christianorum. Continuatio Mediaevalis, 144C], 179–228: 187; G. Bos, C. Burnett, Y. T. Langermann, *Hebrew Medical Astrology: David Ben Yom Tov*, Kelal Qatan. *Original Hebrew Text, Medieval Latin Translation, Modern English Translation*, Philadelphia, 2005, 63.

79v–83v ‘Incipit Centiloquium Tolomei. Scientia stellarum et ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter — ex aliqua civitatum ipsius climatis.’
 = **Abuifafar Hamet filius Joseph, <Commentum in Centiloquium>**,
 tr. Plato of Tivoli (C.3.1.1), without the preface and the commentary.
 Glosses by the scribe.

Basel, Universitätsbibliothek, F.II.33

s. XIV^{med} (1349 for f. 194v–196v, cf. f. 196vb: ‘Deo gratia quoniam finivi anno gratie 1349 die tertia Martis, hora meridiei’; Nicole Oresme’s *Algorismus proportionum* was composed between 1351 and 1361). **Or.:** f. 221–244r (*Ptolemaica*) copied by a certain Engelbertus (see colophon f. 244r), about which name Thorndike adds ‘Engelbert (of Admont?)’; f. 41v–43v, 64r–64v, 87r–98v and 146r–172r copied by a brother Nicolaus (f. 95r: ‘... per manus fratris Nicolay’). **Prov.:** Jakob Henricpetri in 1641 (f. 244r), who bequeathed the MS to the library of the University of Basel.

Parchment, I + 244 f., several contemporary hands (nine hands acc. Björnbo/Vogl), one of which (Engelbertus’s) copied the Ptolemaic section f. 221–244. This section was originally the first item of the MS according to the table of contents of f. Iv.

Scientific texts, mainly astronomy and mathematics: table of contents, 17th c. (Iv); Solinus, *De mirabilibus mundi* (1r–23v); Hyginus, *De astronomia* (24r–37v); illustrations of the constellations (38r–41r); ‘De fluxu et refluxu maris. Visis effectibus quorum causa latet...’ (41v–43v); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (44r–57r); Pseudo-Messahallah, *Liber de orbe*, short version (57v–63v); Hypsicles, *De ascensionibus* (64r–64v); Jordanus de Nemore, *De elementis arithmetice artis* (65r–86v); Gernardus, *Algorismus demonstratus*, second part: *Algorismus de minutiis* (87r–95r); Nicole Oresme, *Algorismus proportionum* (95v–98v); Gernardus, *Algorismus demonstratus*, first part: *Algorismus de integris* (99r–105r); Alhazen, *De speculis comburentibus* (105r–106v); Zenodorus, *De isoperimetris* (107r–108r); Jordanus de Nemore, *De plana spera* (108r–109v); Tideus, *De speculis* (109v–110v); Ibn Mu‘adh, *De crepusculis* (110v–112r); Thebit Bencora, *Liber carastonis* (112v–114v); Autolycus, *De sphaera mota* (114v–116v); Tres Fratres Filii Moysi [Banū Mūsā], *Verba filiorum Moysi filii Sekir* (116v–122r); Alkindi, *De aspectibus* (122v–127r); Pseudo-Euclid, *De speculis* (127v–128v); *De tribus notis* (129r–130r); ‘Demonstrationes quadrantis. Quoniam tota doctrina data in quadrante...’ (130v–131v); comm. ‘*Aliud commentum*’ on Jordanus de Nemore’s *Elementa super demonstrationem ponderum* (132r–134v); Jordanus de Nemore, *De ratione ponderis*, starting I.8 (134v–137r); Fredericus, ‘*Quadratura circuli nichil est nisi inventio embadi...*’ (137r); Theodosius, *De habitationibus*, abridged (137v–138r); Jordanus de Nemore, *De numeris datis* (138v–145v); Jordanus de Nemore, *Liber philotegni*, incomplete and mixed with sections from *Liber de triangulis Iordani* (146r–150v); Johannes de Tinemue, *De curvis superficiebus* (151r–153v); Dominicus de Clavasio, *Practica geometrie* (154r–159v); Campanus of Novara, reworking of Theodosius’s *Spherica* (160r–170v); Levi ben Gerson, *De numeris harmonicis* (171r–172r); Campanus of Novara, *Theorica planetarum* (173ra–193ra); Pseudo-Thebit Bencora, *De motu octave spere* (193va–194rb); Petrus de Guclina, *Theorica planetarum* (194va–196vb); Ptolemy, *Optica* (197r–220r); **Ptolemaica (221r–244r)**. Blank: 172v, 220v, 244v.

Bibl. A. A. Björnbo, ‘Über zwei mathematische Handschriften aus dem Vierzehnten Jahrhundert’, *Bibliotheca Mathematica*, Dritte Folge 3 (1902), 63–75: 63–67; Björnbo/Vogl 1912, 124–29; L. Thorndike, ‘The Study of Mathematics and Astronomy in the Thirteenth and Fourteenth Centuries as Illustrated by Three Manuscripts’, *Scripta Mathematica* 23 (1957), 72–76: 72–75; Clagett 1964–1984, I, xxiii; Benjamin/Toomer 1971, 60; *Katalog der datierten Handschriften in der Schweiz in lateinischer Schrift vom Anfang des Mittelalters bis 1550*, I: M. von Scarpatetti, *Die Handschriften der Bibliothek von Aarau, Appenzell und Basel*, Dietikon-Zürich, 1977, I, 177 (no. 492); Hughes 1981, 22–24; Clagett 1964–1984, V, 194 and 344; A. Lejeune, *L’Optique de Claude Ptolémée dans la version latine d’après l’arabe de l’émir Eugène de Sicile*, Leiden-New York, 1989, 39; Kristeller 1963–1992, V, 66; H. L. L. Busard, *Jordanus de Nemore: De elementis arithmetice artis. A Medieval Treatise on Number Theory*, Stuttgart, 1991, I, 45–46; Blume/Haffner 2012–2016, II.1, 417–25; Zepeda 2018, 69–70.

221r–244r ‘Omnium recte philosophantium verisimilibus coniecturis et credibilibus — tenebrarum sic se habent, et cetera. Explicit liber Ieber [name erased, but still legible] per manus Engelberti. Deo gracias.’
= ***Almagesti minor (C.1.4)***, in complete disorder, as noted by a later reader who added to the colophon: ‘Falsissimi scriptoris quia non est verbum correctum, nisi fuerit malum exemplar.’ No glosses.

Basel, Universitätsbibliothek, F.III.8

s. XIV² (for f. 1–40; 1355 for f. 20–40, cf. f. 40v: ‘Finitus anno domini M^oCCC^oLV^o, feria secunda post Quasimodo geniti’) and XIV^{ex}–XVⁱⁿ (f. 44–222). **Prov.:** Dominican convent in Basel.

Paper, 264 f., four hands (f. 1–16, 20–41, 44–222 and 223–63). F. 1 is torn and most of it is gone, including the beginning of the first Ptolemaic section. F. 2–5 are torn in lower right corner and several words are lost there. F. 17–19 are missing.

Astrology, natural philosophy and medicine: table of contents, late medieval (1r, only the beginning of it is intact); **Ptolemaica (1va–16vb)**; table of contents, same hand as f. 1r above (16^{bis}v–16^{ter}v); Alcabitius, *Introductorius* (20r–40v); *Excerpta Plinii* (41r–41v); ‘Summa Hermetis de revolutionibus. Haly Abenragel ponit hic dicta Hermetis. De revolutionibus annorum (three titles in upper margin). Secundus post conditorem orbis moderator Sol...’ (44ra–48va — compilation whose beginning only corresponds to Zael’s *Fatidica*); ‘Item nota quod c. 10 dixit Hermes (*corr. ex Messe*) quod in omni revolutione...’ (48va–48vb); ‘Ex dictis Messahallam de revolutionibus annorum. De constitutione domini anni. Scias primo quando ingreditur Sol in primum minutum signi Arietis...’ (49ra–57va); **Ptolemaica (57va–58ra)**; ‘De institutione domini anni Albumazar. Oportet te primum scire dominum anni, scias huius rei...’ (58ra–58rb); Alkindi (?), *Saturnus in Ariete sub radiis...* (58va–59rb); Messahallah, *Liber receptionis* (59va–69vb); Zael, *Introductorium*, excerpts attr. Iergis ‘Iergis phylosophi. Capitulum de angulis et succedentibus et cadentibus et fortitudinibus et debilitatibus angulorum. Digniora omnibus circuli locis seu laudabiliora seque in fortitudine succedentia...’ (69vb–73rb); ‘De complexionibus stellarum fixarum Ptolemeus in Quadripartito secundo tractatu. Notandum quod loquens in Quadripartito de vera seu complexione stellarum fixarum...’ (73va–77rb); *Liber novem iudicum*, excerpts ‘De qualitate aeris et temporum Aomar. Qualitas aeris et temporum ex coniunctione et oppositione...’ (77va–79vb); ‘Albumazar in libro magni introductorii. Nota quod duo sunt nature planetarum...’ (80ra–91vb); ‘De dispositione aeris et eius accidentibus ex motu stellarum pronosticare cupiens, primo oportet te scire proprietates...’ (92ra–103rb); ‘Ex propriis experiētiis. Nota primo quod 3 vicibus accidit quod quando Sol fuerit...’ (103rb–104vb); ‘Secundum magistrum Iohannem de Ascuide (?) Anglicum. Nota propter rationes quas ponit Haly...’ (105ra–110rb); ‘De experiētiis propriis. Venus intrans Cancrum signum...’ (110va–115rb); ‘Anno nonagesimo nono Augusto coniunctio precedens introitum Solis in Libram...’ (116ra–222v); Pseudo-Aristotle, *Secretum secretorum*, excerpt (223ra–224rb); Arnold of Villanova, *Regimen sanitatis* (224rb–232vb); Thomas of Cantimpré, *De natura rerum*, Books I–II (232vb–263rb). Blank: f. 16^{bis}r, 42–43, 115v, 263v–264v. Sections on f. 44ra–48va, 49ra–57va, 73va–77rb, 80ra–91vb, 92ra–103rb and 105ra–110rb consist of compilations dealing mainly with astrometeorology and mundane astrology on the basis of many authors, including Abraham Avenezra, Albertus Magnus, Albumasar, Alkindi, Aomar, Haly Abenragel, Hermes, John of Eschenden, Pseudo-John of Seville, Messahallah, Ptolemy, Robert Grosseteste, Zael, as well as on the author’s own observations, put together under the titles ‘Ex experiētiis propriis’ (103rb–104vb) and ‘De experiētiis propriis’ (110va–115rb). These observations most probably result from the long section f. 116ra–222v, where the author recorded the weather in parallel with planetary positions for every day between 31 August 1399 and 31 March 1406 (see Thorndike, ‘A Weather Record’, and also L. Thorndike, ‘A Daily Weather Record from the Years 1399 to 1401’, *Isis* 57 (1966), 90–99).

Bibl. L. Thorndike, 'A Weather Record for 1399–1406 A.D.', *Isis* 32 (1949), 304–23: 304–05; Zinner 1962, 11; *Katalog der datierten Handschriften in der Schweiz in lateinischer Schrift vom Anfang des Mittelalters bis 1550*, I: M. von Scarpatetti, *Die Handschriften der Bibliothek von Aarau, Appenzell und Basel*, Dietikon-Zürich, 1977, 179–80 (no. 499); Nicoud 2007, II, 771–72.

1va–16vb '... Hiis enim duobus vivificatur sapiam (?) scilicet inveniando non inventa et excitando sopita... (2ra) secundo prosequitur ibi. Scientia astrorum: Circa primum duo facit, in parte enim prima premitit quedam generalia documenta — Ita et ortus istius et ideo non plane dicenda sunt. Hic satis enim dictum est superius. Explicit scripta supra Centilogium Ptholomei edita a magistro Wilhelmo de Arrogonia.'

= **William of Aragon, *Scripta supra Centilogium Ptholomei* (C.3.4)**, without the beginning of v. 1 due to f. 1 damaged for the most part. No glosses. In both tables of contents (f. 1r and 16^{bisv}), the title reads 'Sententia supra Centiloquium Ptolomei edita a magistro Wilhelmo de Arragonia.'

57va–58ra 'De cometis. <D>ixit Ptolomeus quod stelle cum caudis sunt 9 — si cum Iove quicquid ipsa significabit cum regibus.'

= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Basel, Universitätsbibliothek, F.III.25

s. XIII^{ex} (f. 45–51, the rest of the MS dates from the 13th and 14th c.). **Prov.:** 'Hunc comparavit magister H. de Wess... (?) librum pro duabus marcis in vigilia beati Mathie apostoli' (f. 44r, partly erased); the MS belonged to Johannes Tagstern, Dominican friar in Basel, then to the Dominican convent in Basel (f. 1r: 'Conventus Basiliensis ordinis predicatorum est iste liber et fuit quondam Iohannis Tagstern professionis eiusdem'; inner front cover: 'Iste liber est fratrum predicatorum domus Basiliensis', 15th-c. hand); 'Ex libris Academiae Bassiensiensis', 1559' (f. 1r).

Parchment, I + 51 f. Composite MS made of four parts of various origins (f. 1–8, 9–16, 17–44, 45–51). The fourth part, containing the Ptolemaic sections, is copied in a single hand. At least one folio is missing at the beginning and f. 51 has been glued on the back cover, so that the verso of that folio is now inaccessible.

Astronomy, computus and astrology: Petrus de Sancto Audomaro, *Tractatus de semissis*, chs 1–10 (1ra–7vb and 9ra–16rb); canons of Toledan tables, fragment (8ra–8rb); 'Incipit quoddam preambulum de theorica planetarum. Cuilibet planetarum assignatur triplex locus...' (17r–18v, as introduction to the following text); *Theorica planetarum Gerardi* (18v–26r); Pseudo-Messahallah, *De compositione astrolabii* (26v–41r); Johannes de Pulchro Rivo, *Computus* (41v–44r); scattered notes (44v); **Ptolemaica** (45ra–51rb); 'Si volueris scire qua hora luceat Luna singulis noctibus...' (51rb–51v, but f. 51v is illegible). Blank: 1v, 8v, 16v.

Bibl. Pedersen 1983–1984, II, 653; Lemay 1999, I, 418–20; Pedersen 2002, I, 90–91.

- 45ra–51rb ‘...nes non intromitamus quia non apparet electionis proficuum licet proficeremus. 7. Non poterit dare iudicia secundum stellarum complexionem nisi homo qui vim anime — maximus namque error foret si traderetur illi. Et ego Deum precor ut te diligat. Et perfecta est huius libri translatio 17 die mensis Martii, duodecimum mensis Gumedii et secundi anno Arabum 530. Explicit Centilogium Ptholomei cum commento Haly.’
= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, tr. **Plato of Tivoli (C.3.1.1)**, starting with the last line of v. 6, due to one missing folio at the beginning. Glosses by the scribe throughout and by two later hands on f. 46r, 48v and 50r.
- 51rb ‘Ptholomeus dixit quod stelle cum caudis sunt 9 — si cum Iove quicquid ipsa significabit in regibus.’
= **Pseudo-Ptolemy, De cometis (B.4)**. Substantial marginal notes apparently by another hand. These notes are astrological but do not seem to be related to the present text nor to the *Centiloquium*.

Basel, Universitätsbibliothek, F.III.33

s. XIII. **Or.:** France (French hands; the three texts f. 16r–28r are found in the same order, and with the same lacuna in Gergis’s text, in two French MSS: Paris, BnF, lat. 14704 (12th c.), f. 199ra–208vb; and Paris, BnF, lat. 15123 (14th c.), f. 26r–55v). **Prov.:** the MS belonged to Johannes Tagstern, Dominican friar in Basel, then to the Dominican convent in Basel (cf. 85v: ‘Iste liber est fratrum predicatorum domus Bas<iliensis> et est de libris fratris Iohannis Tagstern, oretur pro eo’, 15th-c. hand).

Parchment, 85 f., two hands (f. 1r–28r and 28v–84v), decorated initials.

Astrology: **Ptolemaica (1r–8r)**; Messahallah, *Liber receptionis* (8v–16r); Aomar, *De nativitatibus* (16r–28r); ‘Cum volueris scire latitudinem visionis que est inter Solem et Lunam...’ (28r); Gergis, *De significatione septem planetarum in domibus* (28r, last chapter on the Tail of the Dragon); Albumasar, *De magnis coniunctionibus* (28v–84v); table of contents, same 15th-c. hand as above (85v). Blank: 85r.

Bibl. Kristeller 1963–1992, V, 67; Lemay 1999, I, 226–28.

- 1r–8v ‘Centilogium Ptholomei [title added in upper margin by a later hand]. Liber fructus Ptol<ome>i expositus a Bugafaro in quo sunt C verba. Dixit Tpol<omeu>s (!): Iam premisi libros in quibus tractavi de impressionibus planetarum in hoc mundo composito... Dixit Ptol<omeu>s: Sciencia astrorum ex te et illis, nec convenit peritum... Quod dixit Ptol<omeu>s, ex te et illis, significat quod qui res futuras prescire — acciditque in Egypto tunc quicquid dixit Pthol<omeu>s. Hoc est quod ego malui exponere in hoc libro. Perfecta est eius expositio. Laus tibi sit Christe quoniam liber explicit iste. Amen.’
= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, ‘Iam premisi’ version (C.3.1.4). No glosses.

Basel, Universitätsbibliothek, F.V.22

s. XV² (c. 1460–1470). **Or.:** Italy. **Prov.:** Henricus Petri, 1508–1579 (f. 4r: ‘Sum Henrici Petri’); Remigius Faesch, 1595–1667 (f. 4r).

Paper, 355 f., a single neat hand (except for f. 353r–353v).

Ptolemaica (single text), except for additions by two 16th-c. hands: ‘Tabula apparitionum et occultationum trium superiorum secundum translationem Trapezuntii’ (353r) and table of contents up to f. 29 (353v). Blank: 1, 3 (f. 2 is missing), 354–55.

Bibl. Monfasani 1984, 4; Kristeller 1963–1992, V, 69.

4r–352v ‘Georgii Trapezuntii ad libros Magne Ptolomei compositionis introductio. Capitulum primum de divisione omnis circuli et precipue zodiaci. Quoniam libros Ptolomei de motibus celestium, quibus nescio an quicquam altius ac rationis et scientie via certius inveniri aut fingi possit ex Greca lingua in Latinam vertimus... (21r) Expositio Magne compositionis Ptolomei a Georgio Trapezunda facta incipit. Codicis huius quem exposituri gratia salvatoris sumus volumina librique XIII sunt, in quibus Ptolomeus intendit erraticarum stellarum et fixarum motus invenire — (351r) maius inter observationes temporis spatium exigit quam vita hominis sit. Laudetur nomen tuum, qui me hoc opus in die felici salutis nostre absolvere voluisti, Christe benedicte, quod in die quam foelici tue incarnationis incoepi absolvique novem id mensibus, traductionum vero textus mensibus novem diebus 22, cuius rei testis gravissimus est, tempore pontifex summus Nicolaus V, qui volumen traducendum mense Marci tradidit et mense Decembris anni eiusdem et librum traductum et commentarios vidit absolutos propter quos postea me destruxit, ut cedula ostendunt, per ignorantissimum Iacobum Cremonensem apposite. Deo gratias’ (followed by diagrams and notes).

= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.1.19)**. Introduction, 4r–21r; Book I, 21r–53v; II, 53v–90v; III, 90v–110v; IV, 110v–127v; V, 127v–167r; VI, 167r–204v; VII, 204v–207v; VIII, 207v–215r; IX, 215r–243v; X, 243v–263r; XI, 263r–281r; XII, 281r–308v; XIII, 308v–351r; colophon, 351r; diagrams and notes, 351v–352v. No glosses. Marginal corrections by several 16th-c. hands.

Basel, Universitätsbibliothek, O.III.30

s. XV² (before 1490). **Or.:** copied by Theodore Buchinck (Monfasani); George of Trebizond corrected and annotated the MS.

Paper, 95 f., a single neat hand. One or several folia are missing at the end.

Astrology: **Ptolemaica** (4r–84v); George of Trebizond, *Liber de antisciiis et cur astrologorum iudicia plerumque fallant* (85r–95v, incomplete due to missing folia). Blank: 1r–3v (except note f. 1v: ‘Omnia orta occidunt et omnia composita dissolvi necesse est, et in interitum cadere’).

Bibl. Monfasani 1984, 4; Kristeller 1963–1992, V, 79; Lemay 1999, I, 409.

- 4r–84v ‘Liber Claudii Ptholomei qui vocatur fructus ad illustrissimum Alfonsum regem Aragonum et utriusque Siciliae a Georgio Trapezuntio ex Graeco in Latinum versus. <L>ibrum Claudii Ptolomei mihi Alfonse rex inclyte traductum quem vulgo Centiloquium ipse fructum appellat... (6r) Liber Claudii Ptolomei qui vocatur fructus ad illustrissimum Alfonsum regem Aragonum et utriusque Siciliae a Georgio Trapezuntio ex Graeco in Latinum versus. <I>am pridem peritiles ad providendum operationes stellarum, o Syre, quas in hoc composito efficiunt mundo exposuimus... Primus aphorismus. Abs te et a scientia, non est enim possibile ut huius scientiae professor particulares rerum ideas provideat — (14v) Sin vero non moventur hostis indigena erit. Finis. (15r) Commentarii et expositiones Georgii Trapezuntii in aphorismis libri fructus Ptolomei ad Alfonsum regem Aragonum et utriusque Siciliae. <L>ibellus hic quem de Graeco traductum nomini tuo dedicavimus, illustrissime rex... (16v) Abs te et a scientia. Abs te, inquit, hoc est a quadam insita vi animi et ingenio et a scientia nature stellarum precognitio fit — ut sicut raro apparent, sic inconsueta significare videantur.’
 = **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**. George of Trebizond’s preface, 4r–5v; author’s preface, 6r; text, 6r–14v; commentary, 15r–84v. Marginal corrections by George of Trebizond.

Basel, Universitätsbibliothek, O.III.31

s. XV^{ex}. **Or.:** perhaps the University of Cracow (see f. 5r). **Prov.:** Remigius Faesch, 1595–1667 (f. 5r).

Paper, 59 f., a single hand (except for additions f. 57r–58r).

Astrology: treatise on nativities ‘Liber continens canonem magistri Alberti de Pruzaff [Brudzewo] super nativitates et iudicia...’ (5r–18v), including ***Ptolemaica* (5r–5v)**; ‘Capitulum primum in verificanda figura celi omnium geniturarum. Nunc ad secreciora et nobiliora huius...’ (23r–56v); tables of essential dignities and degrees, added by another hand (57r–58r). Blank: 1–4 (except note f. 4r: ‘De nativitatibus’, perhaps by the scribe), 19–22, 58v–59v.

Bibl. Birkenmajer 1924, 100–01; Markowski 1990, 287.

- 5r–5v ‘Liber continens canonem magistri Alberti de Pruzaff super nativitates et iudicia, coll<e>ctium (!) in universitate Cracoviensi. Primus de rectificatione etc. Circulum pro exitu geniture ab utero iuxta verbum Pto<lomei> 51 rectificare. Sit Tempus datum cuiuspiam geniture — in tabula a tempore sequente.’
 = **Albertus de Brudzewo (?)**, ***Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17)**, as first chapter of the treatise of nativities. No glosses.

Basel, Universitätsbibliothek, O.IV.4

s. XV¹ (f. 1–46 copied in 1429, cf. f. 9r, 25r and 35r). **Or.:** f. 1–46 copied by Arnold Grub von Kranenborch in the region of Basel, cf. f. 10r: ‘... per manus Arnoldi Grub’, f. 25r: ‘... per manus Arnoldi Grub anno domini 1429 finite tertia die Augusti’ and f. 35r: ‘... scriptum per Arnoldum de Kranenborch in partibus superioribus infra Basileam et Alpes anno domini 1429 in profesto cathedra Petrus apostoli.’ **Prov.:** Remigius Faesch (1595–1667).

Paper, 90 f., two hands (f. 1–4 and 47–90). One or several folia are missing between f. 35 and 36.

Astrology, astronomy and computus: ‘Sequuntur iudicia planetarum in signis cum unus fuerit electus super reliquis. Et primo de Saturno. Aries. Iupiter in Ariete siccitas modica et pluvia pauca...’ (1r–9r); ‘Scientia inveniendi dominum anni et iudicia de eodem. Sole ingrediente in primum punctum Arietis...’ (9r–10r); ‘Sequitur de natura stellarum et de motibus astrorum. In libro de celo et mundo secundum novam translationem Aristoteles. Stelle sunt ex materia corporis celi...’ (10v–11v); **Ptolemaica** (11v–12r); ‘Virtutes et complexiones signorum. Luna in unaquaque lunatione 12 signa pertransit sicut Sol in anno...’ (12r–14v); ‘Item si aliquam viam pergere cepis...’ (14v–15r); ‘Nascentia signorum. Aries est signum dans hominem esse mediocris stature...’ (15r–15v); diagram showing the aspects and note on essential dignities (15v); diagram: essential dignities of the planets in each of the 12 signs (16r); short astrological chapters ‘Triplicitates sic distinguuntur in omnia 3 signa que in natura...’ (16v–17r); ‘Sequitur quot horis unumquodque signum oritur. Signorum quedam oriuntur recte...’ (17r–17v); ‘Sequitur de horis planetarum. In hora Saturni malum est purgare splen...’ (17v–18r); ‘Item sequuntur alie electiones planetarum recepte de libro Ababule et de libro Albumasar. In hora Saturni non bibas medicinam nec incidas pannos...’ (18r–18v); ‘Sequitur de horis planetarum cuiuslibet diei specialiter. In die dominico prima hora est Solis. Si quis profectus fuerit...’ (18v–19r); ‘Regula de planetis hominis. Si planetam hominis invenire velis, divide per 4 virorum nomina mulieris...’ (19r–19v); table and diagrams: planetary hours (19v); ‘Sequitur de significationibus planetarum in signis. Saturnus in Ariete pro lege populi et agris...’ (20r–25r); diagram: celestial circles, with note ‘Item notandum quod hii quinque circuli...’ (25v); ‘Sequuntur principia scientie astronomie. Summa principiorum et eorum que oportent presciri in noticiam scientie astronomie et ad librum Ptholomei Almagesti et ad intelligendum Tractatum de spera. Equator diei est circulus...’ (26r–31r, cf. MS Lyon, BM, 172, under Note); astronomical anthology ‘In libro Ciceronis Macrobius fontem celestis lucis Solem appellavit...’ (31v–32v); ‘Computus manualis. Compondium (!) computi manualis. Si nosse desideras...’ (33r–35r); notes of computus and astronomy (35r–35v); text on the constellations and lunar mansions missing the beginning (36r–39v); twelve astronomical and astrological diagrams (40r–40v); ‘Sequuntur iudicia de tonitruo. Ab oriente tonitruum per annum illum effusione sanguinis significat...’ (41r); ‘Planete regnantes in mensibus. In principio Ianuarii regnat Mars...’ (41r); **Ptolemaica** (41v); *Revelatio Esdrae* ‘Feria prima hyems bona, ver ventosum, estas sicca...’ (41v–42r); ‘Sequitur de naturis et significationibus planetarum. Septem planete sunt sidera errantia que moventur contraria celum...’ (42r–43r); ‘Stella Solis, scilicet dominica, habet numeros 24...’ (43r–43v); diagram showing the aspects (44r); ‘Modus inveniendi oppositionem Solis et Lune ac primam et secundam quadram Lune. Si oppositionem Solis et Lune...’ with eclipse table 1393–1609 (44r–46v); Alcabitius, *Introductorius* (47r–90v).

Bibl. *Katalog der datierten Handschriften in der Schweiz in lateinischer Schrift vom Anfang des Mittelalters bis 1550*, I: M. von Scarpatetti, *Die Handschriften der Bibliothek von Aarau, Appenzell und Basel*, Dietikon-Zürich, 1977, 221 (no. 613); I. Draelants, *Un encyclopédiste méconnu du XIII^e siècle: Arnold de Saxe. Œuvres, sources et réception*, PhD dissertation, Université de Louvain-la-Neuve, 2000, 2 vols, I, 95–99.

- 11v–12r ‘De motibus et iudiciis planetarum. In libro de iudiciis planetarum Ptolomeus. Saturnus [this word as subtitle in the margin]. Sub Saturno sunt hec signa, Capricornus et Aquarius, et sunt eius domus. Regnat in Libra, in Ariete regnum abstrahit — (Luna) complet cursum suum in 28 diebus etc.’
= **Pseudo-Ptolemy, *De motibus et iudiciis planetarum* (B.9)**. No glosses.
- 41v ‘Iudicia de apparitionibus cometarum. Phtolomeus in centum verbis dicit sic: Stelle cum caude sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Bergamo, Biblioteca Civica Angelo Mai, MA 388 (Sigma II 2)

s. XV² (after 1466, cf. f. 122r; added note f. 139v: ‘Introitus Solis in Ariete diebus equatis 1478 in principio anni secundum computationem magistri Georgii de Russia ad meridianum Bonon<ie> ab occasu’). **Or.:** northern Italy. **Prov.:** ‘Conventus Sancti Stephani de Bergamo’ (f. 1r, 15th- or 16th-c. hand); ‘Est conventus Sancti Dominici de Bergamo ordinis Fratrum Predicatorum’ (f. 64v, 16th- or 17th-c. hand); ‘Hic liber olim fuit reverendi magistri Georgii de Casali’ (f. 139v, 16th-c. hand).

Parchment and paper, 140 f., several hands, one of which copied f. 1–68.

Astrology, astronomy, medicine and other scientific texts: John of Saxony, comm. on Alcabitus’s *Introductorius* (1r–48r); **Ptolemaica** (48v–49r); Arnold of Villanova, *De morborum curationibus* (49r–49v); Pseudo-Albertus Magnus, *Speculum astronomie* (50r–58v); **Ptolemaica** (59r–60r); text on the nature of Christ ‘<P>rimo suppono cum sacribus doctoribus...’ (60v–68v); *Theorica planetarum Gerardi* (70r–75v); ‘Incipit astrolabium secundum Liconiensem. Astrologice speculationis exercitium habere volentibus...’ (76r–86r); Campanus of Novara, *De quadrante* (86v–89r); ‘Incipit tractatus de compositione quadrantis. Intentio nostra est quadrantis compositionem manifestare...’ (89r–90r); Alfonsine star catalogue (91r–112v); Prophatius Judeus, *Almanach* (113r–121r); table: *De electionibus secundum cursum Lune per XII signa* (121v); table of lunar mansions for 1466, with elections (122r); John of London, star table for 1246 in Paris (122v); star table from the Toledan tables (123r); astrological diagrams (123v–124r); ‘Tabula arcus diei et noctis totius anni’ (125r–130v); Albertus Magnus (?), *De causis sompniorum* (131r–132r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (132r–133r); ‘Nota quod orientales sunt antipodes...’ (133r–133v); Campanus of Novara, *Theorica planetarum*, tables of planetary distances and dimensions (133v–135r); planetary and zodiacal symbols, added (135r); notes on longitudes of cities, added (135r); table: coordinates of cities, with notes (135v–136r); ‘Tabula de coloribus eclipsium’ (136v); astronomical and astrological notes, added (136v–140r). Blank: 69, 90v, 124v, 140v.

Bibl. P. McGurk, *Astrological Manuscripts in Italian Libraries (Other than Rome)*, London, 1966, 3–9 (MS 1177); Agrimi 1976, 17–20 (no. XIX); Kristeller 1963–1992, I, 6; Zambelli/Caroti 1977, 175; *Codici e incunaboli miniati della Biblioteca civica di Bergamo*, Bergamo, 1989, 329–33; Kristeller 1963–1992, V, 475; Lemay 1999, I, 423 (MS 1177); Paravicini Bagliani 2001, 9–10; Blume/Haffner 2012–2016, II.1, 453–58.

48v–49r ‘Quidam princeps nomine Albugaue in libro suo quem scientiarum electionem astrorum nominavit — considerantibus picturas, que cum a longe fuerint placent, propinque vero non dulcescunt.’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, preface only. No glosses.

59r–60r ‘<A>liarum etc. Quesivisti ut hanc propositionem 60^{am} Centilogii cum comento Ub. (?), expositionem (?) ad quod breviter respondeo quod in ea Ptho<lome>us facit tria, primo tangit occasione dierum creticorum, secundo de diebus indicantes crisis in alterationes, tertio de quantitibus utrorumque tam creticorum quam indicativium crisim — Et secundum quod erunt in plures dispositiones bone vel male secundum hoc magis bone vel magis male crises efficiuntur. Et sicut est de diebus crisis, ita de indicantis bone vel male dispositiones attendi pat (?). Et hoc est quod continetur in dicta propositione Ptho<lome>i et quod continetur in expositione commenti Halion (!).’
= ***Glosa super 60 propositionem Centilogii Ptholomei (C.3.2)***, missing the last paragraph. No glosses.

Bergamo, Biblioteca Civica Angelo Mai, MA 571 (Delta I sopra 11)

s. XIV. **Or.:** Italian hand.

Paper, 234 pp. (late medieval or early modern pagination), a single hand. One folio (which contained the end of the Ptolemaic section) is missing after p. 24 (= pp. 25–26). In that place we find instead a group of four unnumbered folia (= 26^{bis}–26^{nonies}) bound in disorder and missing text both at the beginning and at the end. These four folia were evidently not there when the codex was paginated.

Astrology and astronomy: ***Ptolemaica (1a–24b)***; Giles of Lessines, *Summa de temporibus*, fragment of Book III, missing beginning and end (26^{bis}a–26^{nonies}b, starting with p. 26^{octies-nonies}, then p. 26^{bis-septies}); Alcabitius, *Introductorius* (27a–54a); John of Saxony, comm. on Alcabitius’s *Introductorius* (55a–119b); Thaddeus of Parma, *Expositio super theoricam planetarum* (121a–178a); astronomical notes ‘Nota quod secundum tabulas Tholletanas et Romanas dies naturalis incipit a meridie...’ (178a–178b); Messahallah, *Epistola de rebus eclipsium* (179a–181b); Geminus of Rhodes, *Elementa astronomie* (181b–208b); *Capitula Almansoris* (215a–220a); Hermes, *Centiloquium* (220a–223b). Blank: 120, 209–214, 224–234.

Bibl. Agrimi 1976, 31–33 (no. XXXIII); Kristeller 1963–1992, I, 6, and V, 474.

1a–24b ‘Dixit Ptho<lome>us: Iam scripsi tibi, Yesure, libros de hoc quod operantur stelle in hoc seculo... Scienza stellarum ex te et illis est... Quod dixit

Ptho<lome>us, ex te et illis est, significat quod... (1b) Mundanorum mutatio ad hoc et ad illud corporum supracelestium... Doctrina stellarum ex te que ex illis est. Nec est doctrina in ea ut propter hanc actus — in qua inceptum est regnum filiorum Ales. Obiit ergo Abnabez in anno...'

= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, **tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the 'Mundanorum' version (C.3.1.3) and in Adelard of Bath's translation (B.1.1) (= 'threefold' version). The last lines of v. 100 are missing due to the loss of one folio. Substantial glosses by the scribe pp. 1–6. No glosses thereafter, except for occasional short marginal notes by a later hand.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, Hamilton 557

s. XIII²-XIVⁱⁿ (information Stefan Georges), but copied on a model dating from c. 1220 for f. 1–15 (see below). **Or.:** northern Italy, the model of the MS probably came from the region of Mantua (see below). **Prov.:** Nicolaus Augusta de Venetiis (d. 1446), bishop of Tricarico (f. 33r: 'Istum librum dominus Nicolaus qui fuit prior conventus sanctorum Ihoanis (!) et Pauli, postea provincialis et a provincialatus officio assumptus est ad episcopatum Tricaricensem'); Venice, convent Santi Giovanni e Paolo, at least until the 18th c.

Parchment, 33 f. MS made of two parts: f. 1–15, a single hand; f. 16–33, several similar hands.

Astrology: **Ptolemaica (1r–14r, 14r–14v and 15r)**; Albumasar, *Flores* (16r–29r); *tonitruale* in verses 'Accedens quicumque cupis cognoscere verba...' (29v–30v); 'Incipit capitulum de seiete. Cum volueris segetis prenosscere (!) eventum in singulis annis...' (31r–31v); 'Septimo usque ad Iovem quot interfuerint signa masculina...' (31v–32v). Blank: 15v, 33r–33v (except for owner's note f. 33r).

Bibl. H. Boese, *Die lateinischen Handschriften der Sammlung Hamilton zu Berlin*, Wiesbaden, 1966, 273–74; Lemay 1999, I, 331–35.

1r–14r 'Incipit liber qui Centiloquium appellatur. Dixit Tholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et illis est... Quod dixit Ph<tolome>us, ex te et illis, significat qui priores futuras prenosscere desiderant — et quanto melius qui vidimus exposuimus.'

= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, **'Mundanorum' version (C.3.1.3)**, in 'Mundanorum 2' only. A few short marginal notes, mainly by the scribe, but also, on f. 3r, by a later hand. This copy includes horoscopes within the text on f. 8r (4), 9v (2), 14r (2) and 14v (1); a table of terms 'Termini Tholomei' on f. 14v; and notes on f. 15r, including 'prima die Ienuar<ii> MCC21...'. The planetary positions show that all horoscopes were cast for various dates in 1220 (the mention 'anno domini 1202' above the third horoscope f. 8r is evidently a mistake by someone new to Arabic numerals or suffering from dyslexia). At least some of these horoscopes are interrogations and elections, apparently by or for some ruler, cf. e.g. 'Interrogatio domine commune' (horoscope 4, f. 8r) and 'Eodem die 7 hora comes electus fuit in

P^t (?) (horoscope 6, f. 9v), and one of these horoscopes mentions Mantua: 'Die Mercurii 12 hora, extratus (?) fuit carocius causa eundi in servicio Mantue, V die exeunte (?) Madio.' On these horoscopes, see also Lemay and J.-P. Boudet, 'Les horoscopes princiers dans l'Occident médiéval (XII^e–XV^e siècle)', in *I saperi nelle corti. Knowledge at the Courts* [Micrologus XVI], Firenze, 2008, 373–95: 378 (article revised in J.-P. Boudet, *Astrologie et politique entre Moyen Âge et Renaissance*, Firenze, 2020, art. I, 9 and n. 15).

- 14r–14v 'Ph<tolome>us: stelle cum caudis sunt 9 — in regibus et divitibus apparebit.' = **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses, but additions as indicated above.
- 15r 'Dixit Ph<tolome>us et Hermes quod locus Lune in hora — expertus fuit multiens (!).' = **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, Hdschr. 95

s. XV² (1470 for f. 8–15, cf. f. 14v, and probably for the whole MS). **Or.:** copied by Michael Foresius (cf. colophons f. 14v: 'Explicit Centiloquium Ptolomei per me M. Foresium, 1470, 17 Octobri infra initium', f. 20v: 'Michael Foresii transcripsit' and f. 28r: 'Laus glorioso Deo Foresius'). **Prov.:** Christianus de Hamburgo, who purchased the MS in Mainz after Michael Foresius's death, probably in 1513 (Heydeck, 151); later in the 16th c., the MS belonged to the physician 'Hermanus Agris (?)'. See note on the inner front cover: 'Libellus Hermani Agris (?) phisici. Emptus Maguntie [Mainz] per eundem ex testamento M. Foresii phisici anno 1512^o', where the section 'Hermani Agris (?) phisici' was added over another, erased name, which Heydeck read with the help of an ultraviolet lamp: 'Christiani de Hamburgo'.

Paper (with a few parchment leaves), 183 f., a single neat hand, decorated initials.

Astrology: table of contents (inner front cover); astrological tables and notes, dealing with essential dignities of the planets, degrees, signs and parts (1r–6v); ***Ptolemaica* (8r–15r)**; Hermes, *Centiloquium* (16r–20v); *Capitula Almansoris* (21r–28r); Zael, *Quinquaginta precepta* (29r–33v); 'Obsessus dicitur planeta cura fuerit inter duos malos...' (33v); 'Significationes VII planetarum per domos. Collectio verborum in iudiciis secundum Ahabuelo. Aspice unamquamque domorum et que fortunarum et que infortunarum sit... Explicit compendium Albumasar' (34r–39r); 'Nota: Sole et Luna existentibus in signis masculinis nati erunt viriles viri...' (39r); Pseudo-John of Seville, *Epitome totius astrologie*, Book II, second part attr. Zael 'Zahel in revolutionibus nativitatum. In revolutione anni multa habemus considerare que sunt partes Ptholomei in annis vite et partes Persidorum...' (40r–46v); Messahallah, *Liber interpretationum*, chs 3–7 (47r–49r); Pseudo-John of Seville, *Epitome totius astrologie*, Book II, first part attr. Zael 'Zahel de nativitatibus. Firdaria Solis X annorum a Sole est exordium...' (58r–74v); Albumasar, *Flores* (75r–99r); Messahallah, *Epistola de rebus eclipsium* (100r–104v); 'Tractatus de ymbribus. Sol in emisperio australi et Venus sub radiis...' (105r–112r); Messahallah, *Liber receptionis* (113r–131v); 'Notabilia utilia multum ex interrogationibus. Esse et detrimentum rerum habet fieri tribus

modis...' (132r–141r); Hermann of Carinthia, *De occultis*, incomplete (141v–147v); 'Saturnus: interiora auris, splenem ac stomachum...' (147v); **Ptolemaica (147v and 148r–150r)**; Arnold of Villanova (?), *De iudiciis particularibus pertinentibus ad medicinam*, beginning only (162r–162v); Guillelmus Anglicus, *De urina non visa* (169r–175v); 'De intentione querentis. Aspice duodecimam (?) gradus ascendentis super quod signum ceciderit...' (176r–177r); 'Circa fleubothomiam. Considerando Lunam secundum quadras immutationes...' (178r–180v); **Ptolemaica (181r)**; 'Nota periodos interpellatarum febrium...' (181v); notes of astrological medicine (182r). Blank: 6v–7v, 15v, 28v, 39v, 49v–57v, 112v, 150v–161v, 163–68, 177v, 182v–183v.

Bibl. K. Heydeck, *Die Handschriften der Signaturenreihe Hdschr. der Staatsbibliothek zu Berlin Preussischer Kulturbesitz*, I: *Hdschr. 1–150*, Wiesbaden, 2013, 151–56.

- 8r–15r 'Centiloquium Ptholomei de preceptis astrologie incipit. Scientia astrorum ex te et illis est. Ne convenit peritum illorum prophere secundum formam effectuum singularum quemadmodum — (14v) veniet proditor de longe, si fuerit immobilis erit ex eadem regione. Deo gracias. Explicit Centiloquium Ptolomei per me M. Foresium, 1470, 17 Octobri infra initium' (followed by a subject index on f. 15r).
= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, 'Iam premisi' version (C.3.1.4), without the commentary. Gloss by another (?) hand on f. 10r, giving an 'alia translatio' for v. 34, i.e. the translation of George of Trebizond, on which see f. 148r–150r below. A few marginal notes on f. 9r, 10r and 10v, perhaps by Foresius, refer to 'Almans<or>' and 'Herm<es>', i.e. the *Capitula Almansoris* and Hermes's *Centiloquium* respectively.
- 147v 'Ex Ptholomei Quadripartito [title in the margin]. Saturnus: Auditum dextrum, splenem, vesicam, fleuma. Iupiter: pulmonem, costas, latera arterias, sperma. Mars: auditum sinistrum, inguinem, venas, testiculos. Sol: visum, cor, cerebrum, nervos, membra dextre partis. Venus: odoratum, epar, carnem. Mercurius: locutionem, deliberationem, memoriam, linguam, fel, nates. Luna: gustum, deglutium, stomachum, ventris, vulnam et omnia sinistre partis membra.'
= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2), excerpt from III.13, slightly rewritten. No glosses.
- 148r–150r 'Ex Trapesuntina translatione Centiloquii. VI. Amphor<ismus> sextus: Tunc dierum atque horarum electio confert quando tempus nativitatis convenit — diminuitur omnino vis nocendi ac evanescit.'
= **George of Trebizond**, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11), excerpts from v. 6–7, 12–13, 16–18 and 23–24, with or without George of Trebizond's commentary and with variants and additions to the text. See also note to f. 8r–15r above. No glosses.
- 181r 'Nota quod quadre de quibus in 56 verbo Centiloquii fit mentio quibus humiditates moventur non intelliguntur de quartis ecentrici Lune sed de quadris diei naturalis — vel ab angulo terre mors advenit festine.'
= **Michael Foresius** (?), *Commentum in verbum 56 Centiloquii* (C.3.13). No glosses.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. fol. 54 (964)

s. XV¹ (f. 2–69 copied in 1440, cf. f. 69ra: ‘Et sic finis huius libri etc. anno 1440’, this date probably also applies to f. 74–137, copied in the same hand; prognostication for 1433 f. 137rb–140ra).

Prov.: monastery of Maria Laach; acquired by the Royal Library in Berlin in 1819.

Paper, 215 f., several alternating hands.

Astrology: table: geographical coordinates of 33 cities (1r); Haly Abenragel, *De iudiciis astrorum*, Books I–III and VII–VIII (1v–69ra); notes on the great conjunctions ‘Cum secundum omnia (?) astronomus (?) ista coniunctio magna Saturni et Iovis...’ (69ra–73vb); Haly Embrani, *De electionibus horarum* (74ra–87rb); ‘Cavendum est ab inpedimento Lune sicut dixit Dorochius et ceteri sapientes in initio operum. Et sunt decem modi...’ (87rb); Roger of Hereford, *De quatuor partibus iudiciorum astronomie* (87va–95vb); Albumasar, *Introductorium maius*, tr. John of Seville, Books IV–VIII (96ra–137rb); prognostication for 1433, based on the lunar eclipse of 17 June (137rb–140ra); ‘Sicut dicit Aomar in fine libri sui de nativitatibus...’ (140ra–140vb), ‘Hec est sententia Aschenden. Frater qui se ipsum vocat Perscrutator in tractatu suo...’ (140vb–142vb); Albumasar, *Flores* (146ra–157rb); Messahallah, *Liber receptionis* (157va–168ra); Messahallah, *De cogitatione* (168ra–168vb); ‘Item modum ad faciendum lac virginis...’ (169ra); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen (170ra–176vb); Messahallah, *De revolutionibus annorum mundi*, incomplete (177ra–179vb); ‘Ad inveniendum gradum ascendentem in nativitatibus per regulam conceptionis inspicere exemplum hoc...’ (179va–181vb); Abraham Avenezra, *Liber de nativitatibus* (182ra–193rb); Abraham Avenezra, *Liber nativitatum et revolutionum earum*, tr. Pietro d’Abano, second part on revolutions (193rb–194rb); **Ptolemaica (194va–207vb)**; ‘Debilis planetarum fit 10 modis et inpedimentum eorum in nativitatibus et interrogationibus... Explicit liber Arpachelii [i.e., Arzachelis] introductorius ad librum iudiciorum Arabum’ (208ra–213ra); Thebit Bencora, *De imaginibus* (213ra–215rb); ‘Item de Guido de Cauliacho magister medicine preclarissimus capitulo de lapide...’ (215rb); **Ptolemaica (215va–215vb)**; ‘Aries habet caput, faciem et pupillam...’ (215vb). Blank: 143–145, 169v.

Bibl. V. Rose, *Verzeichniss der lateinischen Handschriften der Königlichen Bibliothek zu Berlin*, II.3, Berlin, 1905, 1209–1213 (no. 964); Lemay 1995–1996, IV, 138; Lemay 1999, I, 329–31.

194va–207vb ‘Mundanorum ad hoc et ad illud mutatio corporum celestium mutatione... Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit (194vb) Ptho<lome>us, ex te et illis, significat quod qui futuras res prenoscere desiderat — (207rb) et quanto melius quivimus exposuimus. Ptholomeus in hoc loco tricas et tricarum nomina posuit... (207va) Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Explicit Centiloquium Ptolomei.’

= **Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), ‘Mundanorum’ version (C.3.1.3)**. *Verbum* numbers are given in the margin, with an error starting with v. 2 numbered ‘3’ and v. 99–100 numbered ‘100’. The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 207rb–207vb (see below). No glosses.

- 207rb–207vb ‘Ptholomeus in hoc loco tricas et tricarum nomina posuit... (207va) Stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.
- 215va–215vb ‘Ptolomeus dicit: Si aspexerit significator ascendens erit genus rei occulte — et ita de reliquis domibus.’
= **Pseudo-Ptolemy, *De occultatis* (B.7)**. No glosses.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. fol. 55 (961)

s. XIV².

Parchment, 211 f., a single neat hand, decorated initial f. 1r.

Ptolemaica (single text).

Bibl. V. Rose, *Verzeichniss der lateinischen Handschriften der Königlichen Bibliothek zu Berlin*, II.3, Berlin, 1905, 1196–1198 (no. 961).

- 1ra–211va ‘Dixit Egideus de Thebaldis Lonbardus de civitate Parmen<si>: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (1va) Tractatus primus glose Habenrudiani super prima parte libri Quadripartiti Ptholomei. Verba que dixit sapientissimus Ptholomeus in arte iudiciorum... (3ra) Capitulum primum libri quatuor partium Ptholomei Pheludiani. Dixit Ptholomeus: (3rb) Res, o Mizori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — (206vb) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, et prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Amen, amen, amen. Explicit liber quatuor partium Ptholomei.’
= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**.
Translator’s preface, 1ra–1va; Haly’s preface, 1va–3ra; I, 3ra–52va; II, 52va–97ra; III, 97ra–163ra; IV, 163ra–207ra; Haly’s appendix, 207ra–211va. No glosses.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. fol. 192 (963)

s. XV² (f. 71–151, at least partly copied in 1466, cf. f. 95va: ‘... conscriptum anno domini MCCCCLX6 incompleto’; the rest of the MS dates from the 15th c., except f. 199–220, from the 14th c., cf. f. 207rb: ‘Explicit breviliquium Almansoris filii Abrahe Iudei. 1342. Breser’). **Or.:** English hand for f. 71–151 (Rose). **Prov.:** St Maximin of Trier by the 15th c. (two ex-libris f. 1r).

Paper and parchment, I + 223 f. MS made of six parts bound together by the 15th c., each of which is copied by a single hand or by one main hand: I, f. 1–32 (with missing folia between f. 28 and 29); II, f. 33–70; III, f. 71–151; IV, f. 152–191; V, 192–98; VI, f. 199–220.

Astronomy and astrology: table of contents, 19th c. (Iv); ‘Si vis scire facere quadrantem fac semicirculum super dyametrum...’ (1r–3r); computus tables with instructions (4r–6r); ‘Iste sunt virtutes sive fortitudines quas habent planete in signis...’ (6r); ‘Dominus anni est significator temporum ut pluviarum, ventorum...’ (6v–7r); ‘Latitudo planetarum sumitur 2 modis...’ (7r–8r); ‘Omnium duarum linearum se secantium anguli oppositi sunt equales...’ (8r–8v); ‘Concurrens est numerus...’ (9r–9v); Sacrobosco, *Algorismus* (9v–12rb); Robertus Anglicus, *Quadrans vetus* (12rb–14vb); *Theorica planetarum Gerardi* (14vb–18rb); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona, end gone (18rb–28vb); Pseudo-Messahallah, *De compositione astrolabii*, beginning gone (29ra–32rb); Raymundus Lullus, *Tractatus novus de astronomia* (33ra–70vb); table of contents for f. 71–151 (71ra–71rb); Leopold of Austria, *De astrorum scientia*, first lines only (71va); *Astronomia Ypocratis* (72ra–74ra); Guillelmus Anglicus, *De urina non visa* (74ra–76ra); Leopold of Austria, *De astrorum scientia*, excerpt from Book VIII ‘Questione proposita de infirmo etc. Item (?) dux corruptus super terram...’ (76ra–76va); ‘Tractatus dierum creticorum. Astrorum quidam sapientes experti sunt res multas in suis actibus...’ (76vb–79rb); ‘Note ut recapitulatio iudicii circa infirmos. Nota si aliquis incipiet infirmari...’ (79rb–79va); **Ptolemaica (79vb–81v)**; ‘De electione temporum farmaciary. Ad sciendum quo tempore debet dari medicina laxativa...’ (82ra–83ra); Nicolaus de Dacia, *Liber anaglypharum astronomie*, excerpts ‘Ex libro anaglypharum sexti capituli. Dicit Ptolomeus illustris et Albumasar: Cometa est vapor terreus habens partes grossas...’ (83ra–84rb); Pseudo-John of Seville, *Epitome totius astrologie*, Book IV (85ra–86ra); Hermes/Enoch, *Liber imaginum signorum* (86rb–87rb); William Merle, *De pronosticatione aeris* (87va–95va); Nicolaus de Dacia, *Liber anaglypharum astronomie*, excerpts ‘Ad habendam pronosticationem cuiuslibet diei...’ (95vb–96vb); Albumasar, *Introductorium maius*, tr. John of Seville, excerpt from IV.8 ‘Incipiunt partes 12 domorum. Ascendens cui sunt tres partes...’ (97ra–103vb); Alcabitius, *Introductorius* (103vb–104va); Hermes, *Liber de quindecim stellis* (105ra–106va); Albumasar, *Introductorium maius*, tr. John of Seville, excerpt from VI.1 ‘Imagines Albumasar. Arietis oblique forme duorum colorum...’ (107ra–109va); Hermes, *Centiloquium* (109vb–111ra); **Ptolemaica (111rb–119rb)**; *Capitula Almansoris* (119va–121ra); Perscrutator, *De impressionibus aeris* (121rb–127rb); ‘De impressionibus aeris tractatulus. In coniunctione Solis et Lune, nota signum ascendens et eiusque naturam...’ (127va–128ra); ‘Significationes applicationum Lune ad planetas in ymbribus. Si Luna coniungatur cum Saturno, non est bonum dare medicinam...’ (128ra); Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. Hippocrates (128rb–129rb); Robert Grosseteste, *De cometis* (129rb–130ra); Hermann of Carinthia, *De occultis* (130rb–138vb); Messahallah, *De mercibus* (138vb–139vb); Thebit Bencora, *De imaginibus* (140ra–141va); Leopold of Austria, *De astrorum scientia*, excerpt from Book IX ‘Ymaginis Leupoldi de Austria. Cum vis facere ymaginem alicui pro sanitate...’ (141vb–142rb); Pseudo-Albertus Magnus, *Speculum astronomie* (142va–147rb); Nicolaus de Dacia, *Liber anaglypharum astronomie*, excerpts ‘Ex libro anaglypharum. De scientiis exceptivis...’ (147va–147vb); star table verified 1347, in a different hand (148r–151v); Abraham Avenezra, *Introductorius ad astronomiam*, tr. Henry Bate of Mechelen, chs 4–9 (152ra–163ra); Zael, *Liber iudiciorum* (164ra–191ra: *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*); Robertus Anglicus, *Quadrans vetus*, reworking ‘Quadrans est instrumentum continens quartam partem circuli et in multis practicis...’ (192r–197r), with table (197v); Bede, *De temporum ratione*, excerpt ‘De temporibus ratione domino iuvante diuturni necessarium duximus...’ (198ra–198vb);

Thebit Bencora, *De imaginibus* (199ra–201ra); ‘Significator status infirmi sumitur a maiori parte ascendentis et eius domini...’ (201va–204vb); *Capitula Almansoris* (205ra–207rb); Guillelmus Anglicus, *De urina non visa* (208va–210ra); notes on houses and parts ‘Prima domus vite, possessio sitque secunda...’ (210ra–210va); *Tractatus in quo ostenduntur defectus tabularum Alfonsi* (211ra–213rb); tables of equations of houses, partly for Ferrara and Bologna (214v–223r). Blank: Ir, 3v, 32v, 84v, 163v, 191v, 207v–208r, 213v–214r, 223v.

Bibl. V. Rose, *Verzeichniss der lateinischen Handschriften der Königlichen Bibliothek zu Berlin*, II.3, Berlin, 1905, 1199–1209 (no. 963); Zambelli/Caroti 1977, 96–101; Folkerts 1981, 63; Kristeller 1963–1992, III, 474; *Raimundi Lulli Opera Latina*, XVII, eds M. Pereira, T. Pindl-Büchel, Turnhout, 1989 [Corpus Christianorum Continuatio Mediaevalis, 79], XIV–XVII; Lemay 1995–1996, IV, 188–90; Lemay 1999, I, 232–33; Panti 2001, 253–54; Paravicini Bagliani 2001, 10; Moulinier-Brogi 2011, 186–88.

79vb–81v ‘Notatum super 67 (!) verbo Centiloquii Ptolomei. Balbaharim sane etc. In ista propositione 60 Ptolomeus tria tangit. Primum est de occasione dierum creticorum — (80va) et acuta ut de magna causa et brevi. Explicit’ (followed by three circular diagrams, f. 80vb–81v).

= *Glosa super 60 propositionem Centilogii Ptholomei (C.3.2)*. No glosses.

111rb–119rb ‘Incipit Centiloquium Ptolomei Pheludiani. Scientia stellarum et ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter — (113va) ex aliqua civitatum ipsius climatis. Explicit Centiloquium Ptolomei. (113vb) Incipit commentum Halii super Centiloquio Ptolomei. Super primo verbo. Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras scire desiderat — tunc Egypto quidquid dixit Ptolomeus. Explicit commentum Halii.’

= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, without the preface. Propositions, 111rb–113va, and commentary, 113vb–119rb. No glosses.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. fol. 246

s. XV^{med} (1444 for the Ptolemaic section, cf. explicit; most of the MS was copied from 1443 to 1447 (cf., e.g., f. 23vb, 31vb, 47vb, 81rb, 154vb, 175ra, 184vb, 239vb, 252va and 258ra), with sections added at a later stage, as is the case for f. 94v–108v, copied in 1458, cf. f. 101ra).

Or.: notebook of Ludolph Bochtorp, who was successively student at the University of Erfurt (where he received his master of arts in 1445), student in medicine at the University of Padua and physician in Brunswick (Braunschweig), cf. f. 1r: ‘In presenti volumine continentur infrascripte materie 54, quas omnes ego Ludolphus de Borchtorpe manu propria scripsi, exceptis questionibus spere et rithmimachia, Erfordie, Padue et in Brunsc... (?)’; f. 23vb: ‘... quando ego Ludolfus Borchtorp artis baccalaureus... anno 1445... promotus fui in magistrum artium liberalium Erfordie’; f. 154vb: ‘Et sic est finis huius lecture finite per me Hinricum Brunswik in studio Erfordensi pro honorabili viro magistro Ludolfo Borchtorp de Brunswik anno domini 1445 incompleto...’. **Prov.:** the MS was purchased in 1479 by one ‘Tile de

Strobel (?)', cf. note at the top of f. 1r. The same hand left an astronomical note in the margin of f. 59v: 'Inveni ego T. de S. ... anno 1480 incompleto...'

f. 101ra: 'Explicit Phaselexis Basilee editus anno Christi MCCCC^eXXXVII (1437^e), copiatius anno Christi 1458^e currente...')

Paper, 263 f., one main hand (Ludolph Bochtorp), except for f. 2^{bis}ra–24v and 206r–215v, copied by two other hands.

Astronomy, astrology and computus: scattered astronomical notes and diagrams (inner front cover); table of contents (1r); astronomical notes and diagrams (1v–2v), including 'Ptholomeus natus fuit in Alexandria...' (2rb); '<Ci>rca textum spere materialis que utur primo ... (?) diffinitio spere. Utrum diffinitio spere prima in textu posita sit bona. Quia dicitur spere est transitus circumferentie dimidii...' (2^{bis}ra–22rb); Henricus Runen, *Questio de celebratione Pasche* (22va–23vb); **Ptolemaica** (24ra–31vb); Pseudo-Messahallah, *De compositione astrolabii* (32r–38vb); canons of Toledan tables (39ra–45vb); 'Imagines celi numero 48 reperiuntur... Et sic completur tractatus de 48 ymaginibus celi' (46ra–47vb); *Theorica planetarum Gerardi* (48r–52v); John of Ligneres, *Algorismus de minutiis* (53r–56r); Robertus Anglicus, *Quadrans vetus* (56v–59r); Pseudo-Messahallah, *De compositione astrolabii*, first chapter only (59r); solar tables (59v–60v); star table and shadow table (60v); Cristannus de Prachaticz, *Usus astrolabii* (61r–66v); Cristannus de Prachaticz, *Compositio astrolabii* (66v–70r); 'Ad componendum horarium Achas fiat semicirculus...' (70r); Johannes Eligerus de Gondersleuen, *De utilitate quadrantis* (70v–73r); 'Cum visis fueris tibi formare equatorium...' (73r–74r); 'In compositione chilindri quod horologium viatorum vocatur. Accipe lignum durum...' (74r–74v); 'Ad sciendum figuram in qua faciliter invenitur vera coniunctio...' (75r); Pseudo-Albertus Magnus, *Speculum astronomie* (75va–79va); 'Quando videntur aliqua signa in Sole...' (79va); John of Murs, *Tabula tabularum*, canons (79vb–81rb); notes of arithmetic (81rb); Franco de Polonia, *Tractatus de turketo* (81va–82ra); 'In confectione virge visorie accipe circinum...' (82ra–82va); 'Ad conficiendum artificialiter baculum Iacob...' (82va); Johannes de Harelbeke, *Tractatus de spera solida* (82vb–86v); 'Notandum quod omnes regule mensurationum (?) sive in altum...' (86v); Blasius of Parma, *Demonstrationes in theorica planetarum* (87ra–93vb); 'De latitudinibus planetarum. Latitudo planete nichil aliud est...' (94ra–94rb); Hermann Zoest, *Phaselexis* (94va–101ra); excerpt on calendar reform from 1437 'Sacrosancta generalis sinodus Basiliensis...' (101ra–101va); Hermann Zoest, *Kalendarium Hebraicum novum* (101vb–108v); 'De mensuratione terre et corporum celestium. Investigantes secundum famosiores...' (109ra–110va); 'Pro constituendis horariis in parietibus elevatis...' (110vb–111va); Messahallah, *De mercibus* (111vb–113ra); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen, excerpts 'Extracta quedam ex Abraham Iudeo. Ex libro revolutionum Abrahe habetur quod...' (113ra–113vb); John of Saxony, *Canones* (114ra–121rb), with additions mentioning the years 1440–1443 (121rb–121vb); Alfonsine tables (122r–143v); Johannes de Sicilia, *Expositio super canones tabularum Arzachelis sive Toletanarum* (144ra–154vb); 'Excerptum tractatus de mensurationibus Iohannis de Lineriis. Profunditatem putei mensurare, fac 2 signa...' (155ra–155rb); geographical coordinates of cities (155v); Petrus de Sancto Audomaro, *Quadrans novus* (156r–157r); computus table (157v); Henricus Selder, *Canones tabularum Alphonsinarum* (158r–175r); Alcabitius, *Introductorius* (175va–184vb); Thaddeus of Parma, *Expositio super theorica planetarum* (185ra–205ra); 'Ad inveniendum ascensionem cuiuslibet

gradus zodiaci a capite equinoxialis...' (205ra–205va); 'Notandum quod h... (?) vel terra in tres partes...' (205vb); 'Incipit tractatus rithmimathie, id est pugna numerorum ars pulchra. Quoniam igitur huius artis scientia ab ignorantibus contempnitur...' (206ra–215v); Leopold of Austria, *De astrorum scientia* (216ra–239vb); Zael, *Liber iudiciorum* (240ra–252va, *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*); Guillelmus Anglicus, *De urina non visa* (252vb–253vb); 'Si quis voluerit scire quod sit in quolibet mense ex pluviis et ventis et qualitatibus temporis...' (254ra–254va); 'Incipit Hali de Luna. Luna cum fuerit in prima domo significat principatum et effectum rerum...' (254va–255ra); circular diagram: aspects (255r); table: elections from the aspects of the Moon with the other planets (255r); astrological tables: 12 signes, essential dignities and degrees (255v–256v); *Astronomia Ypocratis* (257ra–258ra); Zael, *Liber iudiciorum* (258rb–261vb, *De electionibus* and *Liber temporum*); table of equation of houses for latitude 52° (262r–263r); 'Invectiva contra astronugos et specialiter contra quendam rudem et presumptuosum. Quos universi scientie astrorum veri amatores...' (263va–263vb); scattered astronomical notes (inner back cover).

Bibl. Zinner 1962, 14–17; Zambelli/Caroti 1977, 102–04; Folkerts 1981, 63–65; Kristeller 1963–1992, III, 481, and VI, 497; O. de Solan, 'La réforme du calendrier dans une question quodlibétique de Henri de Runen (1444)', *Bibliothèque de l'École des Chartes* 157 (1999), 171–220: 180–82; Lemay 1999, I, 284–87; Paravicini Bagliani 2001, 10–11; Pedersen 2002, I, 91–92; Moulinier-Brogi 2011, 188–90; C. P. E. Nothaft, *Medieval Latin Christian Texts on the Jewish Calendar. A Study with Five Editions and Translations*, Leiden-Boston, 2014, 495–97; O. de Solan, *La réforme du calendrier aux conciles de Constance et de Bâle*, Paris, 2016, 365–66.

24ra–31vd [b] Antiqua translatio sed incipit sic: Mundanorum ad hoc etc. Scientia namque astrorum ex te et ex illis est. Et non oportet peritum illorum iudicare secundum formam effectuum particularium... [a] Antiqua translatio Centilogii Ptholomei. Mundanorum ad hoc et ad illud mutatio corporum celestium... Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros in Quadripartito de hoc quod scilicet quod operantur stelle in hoc seculo... Tertia translatio [title in the margin] Scientia stellarum etc. Doctrina stellarum ex te et ex illis. Nec est doctrina in ea ut propheteret... [c] Nova translatio. Scientia stellarum ex te et ex illis est. Astrologus non debet dicere res specialiter sed universaliter... Quod dixit Pt<olome>us, ex te et ex illis est, significat quod que res futuras prenoscere desiderat — [c] ... et quanto melius quivimus exposuimus. Et sic finitur illud commentum Hali super Centilogio vel Centiloquio Ptholomei secundum antiquam et novam translationes... [d] ... et si non ambulaverit rebellis est de eodem climate. Deo gracias. Finitus est ille textus Centiloquii in vigilia nativitatis Christi, similiter et commentum, 1444, prope horam ... (?).'

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), 'Mundanorum' version (C.3.1.3), with the beginning also given in Plato of Tivoli's (C.3.1.1) and in Adelard of Bath's (B.1.1) translations. The text is in three columns (a, b, c), with columns a and c written in smaller script. The organisation of the material on the first page (24r) is confusing, as are the titles given to each column. Column b gives the proposition of v. 1–3 in 'Mundanorum'; column a repeats the proposition of v. 1 in 'Mundanorum',

followed by Plato's preface, v. 1 in Adelard's translation and both the proposition and commentary of v. 2 in 'Mundanorum'. Column c gives the proposition and commentary of v. 1 in Plato, followed by the proposition and commentary of v. 3 in 'Mundanorum'. The pattern becomes clearer from the second page (24v) onwards, where column b consistently gives the proposition from 'Mundanorum 1' and columns a and c the proposition from 'Mundanorum 2' together with the commentary. The last two pages (31r–31v) are in four columns, but this hardly affects the pattern. No glosses. Corrections by the scribe.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. fol. 391 (82) [Plate 27]

s. XVI^{med} (f. 172–186 dated 1 January 1549; '4 Iunii 1543' f. 64r; 1575 for f. 325–356). **Or.:** Erasmus Reinhold's personal notebook, except for the last part (f. 326–356), which was used in a university context (cf. 'semestri brumali faciebat' f. 326r), perhaps by Erasmus Reinhold's successor at Wittenberg.

Paper, 356 f., two hands: f. 1–324 (Erasmus Reinhold) and 326–356.

Astronomy and astrology: Erasmus Reinhold, comm. on Copernicus's *De revolutionibus* (1r–58r and 192r–289r, ed. Nobis/Nobis, 189–358); Erasmus Reinhold, notes on trigonometry (64r–151r); **Ptolemaica (172r–186v)**; Erasmus Reinhold, 'Tabulae in capita mathematica Plinii' (295r–324r); astrology 'Μέθοδος ἢ ψηφοφορία ἐπιλογισμου της γενεσεως D.L.T.Z.T. etc. Cum thematis alicuius natalitii conformatio...', incomplete (326r–356v). Blank: 58v–63v, 151v–171, 187–191, 289v–294, 307–314, 325 and numerous blank folia within each section.

Bibl. V. Rose, *Verzeichniss der lateinischen Handschriften der Königlichen Bibliothek zu Berlin*, II.3, Berlin, 1905, 1366–1367 (no. 82); Kristeller 1963–1992, III, 474; J. A. Henderson, *On the Distances Between Sun, Moon and Earth According to Ptolemy, Copernicus and Reinhold*, Leiden, 1991, 2–3 and n. 12; H. M. Nobis and A. M. Nobis, *Nicolaus Copernicus Gesamtausgabe*, VIII.1: *Receptio Copernicana. Texte zur Aufnahme der Copernicanischen Theorie*, Berlin, 2002, 589–91.

172r–186v 'In Ptolemaei Μεγαλην συνταξιν, βιβλίου ε'. (172v) Caput XII libri quinti. (173r) De maxima Lunae latitudine. Alexandriae latitudo est graduum 30.58. Quando autem Luna versabatur in tropico aestivo et in maxima latitudine — canonem parallaxium (?) Solis et Lunae. Θεω̄ δοξα. Calendis Ianuarii 1549.'
= **Erasmus Reinhold**, *Commentum in Almagesti V.12–16* (C.1.28).
Corrections by Reinhold.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. fol. 610

s. XIII^{ex} (after 1277, year mentioned f. 14ra, and also f. 250vb: 'Explicit de utraque eclipse anno 1277 in die Dyonisii hora secunda'). **Or.:** northern (ascension tables for latitude 50° f. 159v–160r; William of Saint-Cloud mentioned in a gloss f. 130r, alongside one master Alardus).

Parchment, 250 f., several contemporary neat hands, richly decorated initials, homogeneous decoration throughout.

Computus, arithmetic and astronomy: Pseudo-Robert Grosseteste, *Kalendarium* (1ra–7r); *Tabula Gerlandi* (7v–9r); Balduinus de Mardochio or Marrochio, *Compotus manualis* (9r–14v); Sacrobosco, *Algorismus* (15r–21r); Sacrobosco, *De sphaera* (21r–33v); Sacrobosco, *Computus* (34r–56r); Robertus Anglicus, *Quadrans vetus* (56v–62r); Pseudo-Messahallah, *De compositione astrolabii* (63r–82r); *Theorica planetarum Gerardi* (82r–90r); Pseudo-Thebit Bencora, *De motu octave spere* (90r–93v); **Ptolemaica** (93v–97v); Thebit Bencora, *De recta imaginatione spere et circularum eius diversorum* (97v–99r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (99r–101r); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (101r–129r); canons of Toledan tables (130ra–158va); tables: ‘Iste sunt tres tabule ad extrahendum annos Arabum ex annis Christi notis et e converso...’ (159r); ascension table for latitude 50° (159v–160r); Toledan tables (161r–238r); tables: ‘Iste sunt tres tabule...’ (239r, as above 159r); ‘Canones eclipsium cum tabulis...’ (239ra–250vb). Blank: 62v, 129v, 160v, 238v.

Bibl. Zinner 1962, 12–14; Folkerts 1981, 66; Pedersen 2002, I, 92–93; Lohr 2025, 86*.

93v–97v ‘Incipit Thebit de hiis que indigent antequam legatur Almagesti. Equator est circulus maior qui describitur super 2 polos mundi — aut propinqui oppositioni Solis erunt, erunt retrogradi.’
 = **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. fol. 646 (Boncompagni 306)

s. XV (information Stefan Georges) — the colophon dated 1268 on f. 27v (‘Continus Lunatus Cumensis (?) scripsi cum Dei laude 1268 Christi’) was presumably copied by the scribe from his model. **Prov.:** Guglielmo Libri (d. 1869); Baldassarre Boncompagni (1821–1894).

Parchment, 39 f., a single very neat hand, reserved initial. Folia are missing at the beginning.

Astrology: table of contents, early modern hand (1r); **Ptolemaica** (3r–19r); diagram ‘Circulus 16 angulorum’ (19v), followed by ‘Incipit tractatus de creticis diebus. <C>irculus 16 angulorum describit dies creticos...’ (20r–21v); *Capitula Almansoris* (22r–27v); Hermes, *Centiloquium* (28r–32v); Zael, *Quinquaginta precepta*, in the version of the *Liber trium iudicum* (32v–35r); ‘Mercurius Babilonie anforisma 45. 1. Si operaberis ex partibus illius planete...’ (35r–36v). Blank: 1v–2v, 37r–39v.

Bibl. G. Libri, *Catalogue of the Extraordinary Collection of Splendid Manuscripts, Chiefly upon Vellum, in Various Languages of Europe and the East, Formed by M. Guglielmo Libri, The Eminent Collector, who is obliged to leave London in consequence of ill health, and for that reason to dispose of his Literary Treasures*, London, 1859, 189 (no. 845); Narducci 1892, 179–80; Thomson/Folkerts 2021, 29.

- 3r–19r ‘...nus, Iupiter, Venus, Luna. Saturnus, Iupiter, Venus, Luna... (3v) Capitulum (!) 51. <V>erbum 51. Locus Lune in nativitate est ipse gradus ascendens de circulo hora casus spermatis... Expositio. In hoc concordati sunt physici — et maximus namque error foret si traderetur illi. Et ego Deum precor ut te diligit. Et perfecta est huius libri translatio 17 die mensis Martii, id est dies mensis Giemedi secundum, anno Arabum 530.2. Explicit Centiloquium Ptholomei’ (added by the same early modern hand that copied the table of contents f. 1r: ‘cum commento Haly Heben Rodan’).
= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, **tr. Plato of Tivoli (C.3.1.1)**, v. 50–100, beginning gone due to missing folia. No glosses.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. fol. 753 (Görres 72)

s. XV¹ (perhaps c. 1426, see below). **Or.:** the MS was copied by the same scribe who copied the *Quadripartitum* in Aachen in 1426 in MS Aberdeen, UL, 364. **Prov.:** St Maximin of Trier (ex-libris f. 1r and 2r).

Parchment, 237 f., a single neat hand, richly decorated initials.

Ptolemaica (single text). Blank: 1r–1v (except ex-libris f. 1r), 237.

Bibl. F. Schillmann, *Verzeichniss der lateinischen Handschriften der Königlichen Bibliothek zu Berlin*, III: *Die Görreshandschriften*, Berlin, 1919, 71–72; Kunitzsch 1986–1991, II, 19; Georges (forthcoming).

- 2r–236v ‘Quidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (3r) Capitulum primum de excellentia huius artis et fine eius utilitatis. Bonum quidem fecerunt in eo quod video illi qui perscrutati sunt... (4r) Iterum capitulum primum alterius translationis. Bonum domine fuit quod sapientibus non deviantibus visum est — et abbreviationem iam sequitur et honestum est ut ponamus hoc finem libri. Expleta est dictio 13 libri Ptholomei et completur Almagesti de disciplinalibus quem magister Gerardus Cremonensis transtulit ex Arabico in Latinum. Summa omnium conclusionum 217.’
= **Ptolemy, *Almagesti***, **tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 2r–3r; I, 3r–17v; II, 17v–37r; III, 37r–51r; IV, 51r–69r; V, 69r–90r; VI, 90r–111v; VII, 111v–130r; VIII, 130r–147r; IX, 147r–170r; X, 170r–183r; XI, 183r–202v; XII, 202v–218r; XIII, 218r–236v. Chapter I.1 is given in two versions: Iṣḥāq’s version, 3r–4r, and the standard al-Ḥajjāj’s version, 4r–5r. Substantial glosses by the scribe throughout, at times more important than the text.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. qu. 510

s. XIII¹ (before 1250, cf. ‘anno domini 1249 perfecto...’ in a note added by another hand at the bottom of f. 141r). **Or.:** English hand. **Prov.:** ‘Edward Langford. 1611’, followed by a

note in English (f. 163v, another name, which I cannot read, occurs in the margin of the same folio); ‘Gorge (?) Langford... 1613’ (f. 167v); Guglielmo Libri (d. 1869); Thomas Phillipps (no. 16345); Berlin, Königliche Bibliothek, in 1896.

Parchment, IV + 211 f., a single neat hand, richly decorated initials.

Mathematics and astronomy: table of contents, medieval (IIv); table of contents, medieval (IVr); Euclid, *Elementa*, version ‘Adelard II’ (1r–59v); Euclid, *De speculis* (60r–63v); Euclid, *De visu* (63v–72v); Jordanus de Nemore (?), *Demonstratio de algorismo* (72v–77r); Jordanus de Nemore (?), *Demonstratio de minutiis* (77r–81v); Gerard of Brussels, *Liber de motu* (81v–88v); Archimedes, *De mensura circuli* (89r–90r); Johannes de Tinemue, *De curvis superficiebus* (90r–94v); *De quadratura circuli per lunulas* (94v); Theodosius, *Spherica*, tr. Gerard of Cremona (94v–112v); **Ptolemaica (114r–175v)**; Jordanus de Nemore (?), *De proportionibus* (175v–178v); Euclid, *Data* (178v–191r); **Ptolemaica (191r)**; Alfraganus, *De scientia astrorum*, tr. John of Seville (194r–209r). Blank: 113r–113v (except added notes f. 113v), 191v–193v.

Note The second table of contents (IVr) includes items which are no longer in the MS (as noted by the author of the table: ‘Omnes isti deficiunt’) between current f. 112 and 114: ‘Quedam demonstrationes de speculis et figuris. Liber de occultis (?). De compositione astrolabii universalis Pthol<omei> [= Pseudo-Ptolemy, *Liber de compositione universalis astrolabii* (B.2)]. De practica geometri... (?). Item de astrol<abio?> quedam demonstrationes. De ponderibus.’

Bibl. G. Libri, *Catalogue of the Extraordinary Collection of Splendid Manuscripts, Chiefly upon Vellum, in Various Languages of Europe and the East, Formed by M. Guglielmo Libri, The Eminent Collector, who is obliged to leave London in consequence of ill health, and for that reason to dispose of his Literary Treasures*, London, 1859, 145–48 (no. 665); Folkerts 1981, 71–72; Clagett 1964–1984, V, 60–61; Busard/Folkerts 1992, I, 36–38; Kristeller 1963–1992, VI, 497; Zepeda 2018, 59.

114r–175v ‘<O>mnia recte philosophantium verisimilibus coniecturis credibilibus — tenebrarum sic se habent.’
= **Almagesti minor (C.1.4)**. Numerous glosses by the scribe and a few later glosses.

191r ‘<D>ixit Tholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo — in suo tempore. Ideo dixit: Ex te et illis. Alia enim via est...’
= **Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), tr. Plato of Tivoli (C.3.1.1)**, v. 1, incomplete (14 lines ending mid-sentence, the rest of f. 191r and f. 191v–193v are blank). No glosses.

Berlin, Staatsbibliothek Preussischer Kulturbesitz, lat. qu. 526

s. XIII^{ex}–XIVⁱⁿ (for f. 1–45; f. 47–52 date from or after 1310, cf. Folkerts, 437–38). **Or.:** ‘Italian or southern’ (Pedersen); this is the only known MS of Johannes de Elsa of Bordeaux’s text (f. 50r–51r). **Prov.:** the MS belonged to one Baptista de Poleziis of Modena in 1480 (cf. inner

front cover: 'Iste liber est magistri Baptiste de Poleziis de Mutina ordinis predicatorum, quem emi pecuniis mihi ab ordine concessis anno domini 1480'); Thomas Phillipps (no. 896).

Parchment, 52 f., three neat hands (f. 1r–45v, 45v–46v and 47r–52v), painted initial f. 1r. Sections appear to be missing after f. 37 and after f. 52.

Astronomy and arithmetic: canons Cb of Toledan tables 'Quoniam cuiusque actionis quantitate...' (1r–25r); other canons (25v–46v), including 'De eclipse Lune invenienda. Cum volueris eclipsim Lune invenire, intra cum argumento Lune equato...' (34v–35v), **Ptolemaica** (35v), 'Ad inveniendum diversitatem aspectus Lune tam in longitudine quam in latitudine per ... (?)'. Si volueris scire arcum distantie loci Lune...' (36r–37r), **Ptolemaica** (37r–37v), 'Item de projectione radiorum planetarum. In trahendis stellarum radiis per ortum signorum...' (37v), and 'Ad inveniendum horam coniunctionis duorum planetarum. Alkiren est duarum stellarum vel plurium in eodem puncto conventus...' (first lines only due to missing folia (37v); Alexander of Villedieu, *Carmen de algorismo* (47r–50v); Johannes de Elsa of Bordeaux, calculation instrument 'Johannes de Elsa canonicus et magister scholarum Burdegalensis [Bordeaux] invenit hoc opus. Inveni quendam modum apertius et facilius computandi...' (50v–51v, ed. Folkerts, 442–45), incomplete text on fractions 'Numeri parcium denominatos possunt fieri...' (52r–52v).

Bibl. Folkerts 1981, 72–73; M. Folkerts, 'Eine bisher unbekannte Abhandlung über das Rechenbrett aus dem Beginnende 14. Jahrhundert', *Historia Mathematica* 10 (1983), 435–47: 437; Pedersen 2002, I, 93–94.

35v 'Hoc habitum est ex libro qui incipit Omnium recte philosophantium. Theon Alexandrinus tabulas diversitas aspectus in longitudine et latitudine composuit — sicut in opera Ptolomei positus fuerit.'
= **Almagesti minor** (C.1.4), excerpt from V.21. No glosses.

37r–37v 'Cum projectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate.'
= **Pseudo-Ptolemy, Liber projectionis radiorum stellarum** (B.6).
Glosses by the scribe.

Bernkastel-Kues, Cusanusstiftsbibliothek, 208

s. XIVⁱⁿ (f. 34–149 copied in 1310–1311, cf. f. 58vb: 'Finitus est Alkindius anno Christi 1310 in die 8 Oswaldi regis [5 August]', f. 68ra: 'Finitus est anno 1^o3^o10^o', and f. 137rb: 'Finit liber Albumaxat (!) anno domini M^oCCC^oXI^o, quarto decimo die Ianuarii'). **Or.:** Prague. **Prov.:** Nicolaus Cusanus; St Nikolaus Hospital in Kues in 1464. F. 34–149 contain marginal notes and horoscopes by two different hands, both contemporary with the MS, concerning events related to Prague and to King Wenceslaus II between 1297 and 1306. Krchňák, 144, identified one of these hands with that of Alvaro de Oviedo, but this identification has been denied by Hernández/Linehan 2004, 311 n. 41, and by S. Ackermann, 'Habent sua fata libelli. Michael Scot and the Transmission of Knowledge Between the Courts of Europe', in *Kulturtransfer und Hofgesellschaft im Mittelalter. Wissenskultur am sizilianischen und kastilischen Hof im 13. Jahrhundert*, eds G. Grebner, J. Fried, Berlin, 2008, 273–84: 283.

Parchment, 152 f., two main hands (I: f. 1–33 and 150–52; II: f. 34–149, with medieval foliation 1–116), decorated initials.

Astrology and astronomy: Zael, *Liber iudiciorum* (1ra–22vb, *Introductorium*, *Quinquaginta precepta*, *De interrogationibus* and *De electionibus*); Messahallah, *Epistola de rebus eclipsium* (22vb–24rb); Messahallah, *De mercibus* (24rb–25va); Alfraganus, *De scientia astrorum*, tr. John of Seville, incomplete (25va–28ra); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (28rb–31vb); *Astronomia Ypocratis* (32ra–33vb); Aomar, *De nativitatibus* (34ra–42va); Geminus of Rhodes, *Elementa astronomie*, attr. Ptolemy: ‘Incipit liber introductorius in Almagesti Ptholemei... Explicit abbreviatio introductorii libri Ptolomei ad Almagesti’ (42va–53vb); Alkindi, *De mutatione temporum* (53vb–58vb); **Ptolemaica (58vb–68ra)**; Messahallah, *Liber receptionis* (68rb–74vb); Albumasar, *De magnis coniunctionibus* (74vb–118va); table: ‘Tabula firdarie’ (118vb); Albumasar, *Flores* (118vb–125va); ‘Incipiunt utilitates astrolabii secundum edicionem Mercuriadis astrologi et ad petitionem Sevanioha astrologi. Et primo prohemium. Suo dilectissimo nimiumque reverenda Sevanioha astrologo...’ (125va–127ra); Albumasar, *De revolutionibus annorum mundi* (127rb–137rb); Alcabitius, *Introductorius* (137va–149va); **Ptolemaica (150ra–150rb)**; Robert Grosseteste, *De cometis* (150rb–151ra); Hermes, *Centiloquium*, excerpts (151ra–151vb); six astrological chapters ‘Si tu, medice, vis scire si ter (?) sit bonum ire ad infirmum videndum...’ (152ra–152vb), including an excerpt from Robert Grosseteste (?), *De impressionibus aeris* (152ra–152va).

Bibl. J. Marx, *Verzeichnis der Handschriften-Sammlung des Hospitals zu Cues*, Trier, 1905 (reprinted Frankfurt/Main, 1966), 195–98; Krchňák 1963, 136–45; Lemay 1999, I, 241.

58vb–68ra ‘Incipit commentum Hali super centum verba Ptolomei. Dixit Pthol<omeu>s: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et illis est... Expositio. Quidem dixit Ptol<omeu>s, ex te et ex illis, significat qui res futuras — et ego Deum deprecor ut te diligat. Perfecta est huius libri translacio 17 die mensis Martii, 12^o die mensis Iumedi secundi anno Arabum 230^o. Finitus est anno 1^o3^o10^o.’
= **Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), tr. Plato of Tivoli (C.3.1.1)**. No glosses.

150ra–150rb ‘De stellis comatis. Ptholomeus dixit: Stelle cum caudis sunt novem — in regibus et divitibus apparebit quicquid ipsa significabit.’
= **Pseudo-Ptolemy, De cometis (B.4)**. No glosses.

Bernkastel-Kues, Cusanusstiftsbibliothek, 209

s. XIV^{med} (after 1339 for f. 1–82, and perhaps before 1354, see below). **Or.:** diocese of Trier? (on f. 8v, the scribe notes in the margin that he saw a certain astrological configuration in the bishop of Trier, whom Krchňák, 147, identifies with Balduin of Lützelburg (1307–1354)); the star table dated 1339 (77v) was drawn in Paris. **Prov.:** Nicolaus Cusanus in 1444; St Nikolaus Hospital in Kues in 1464.

Parchment, I + 113 f. Composite MS made of two parts, each copied by a single neat hand (f. 1–82 and 83–113).

Astrology: detailed table of contents of f. 1–75 (Ira–Ivb); **Ptolemaica (1r–26r)**; ‘Collecta et extracta de libro dispositoris anni omni anno quem fecit Albumasar ad Darium regem Indie ante imperium Allexandri (!). Dixit Albumasar Dario regi Indie de domino anni...’ [= Albumasar (?), *De significationibus planetarum in hora revolutionis anni*] (26v–40r); ‘Oppinio (!) quorundam philosophorum huius artis de Capite Draconis et Cauda, ut Alkyndi, Zaelis, Alkabicii, Zapharis, et ceterum. Caput Draconis est unum magnum signum...’ (40v–44r); ‘Regula extracta ex libro Albumazar de meditatione cordis. Hee sunt partes quibus scitur...’ (44r–46r); Bartholomew of Parma, *Libellus de electionibus horarum et ascendentium* (46v–54v); ‘De ascendente anni omni anno et de significatione uniuscuiusque signi ascendentis. Ascendens anni omni anno...’ (54v–57r); ‘Verba collecta de libro Almansoris nota<bi>lia oblata magno regi Sarracenorum a Plathone Tiburis translata [= *Capitula Almansoris*]. Almansoris astrologi filii Abrahe...’ (57r–63v); ‘Campanus de signis (title added in the upper margin, probably by another hand). De 12 signis celestibus. Aries est bestia parva in terra, in celo magna...’ (64r–67r); ‘De qualitatibus planetarum. Saturnus est planeta naturaliter frigidus et siccus...’ (67r–68r); ‘Nota de propria significatione 12 signorum super partes regionum mundi. Provincie huius presenti mundi sunt numero 72...’ (68r–68v); astrological tables: essential dignities of the planets, degrees, friendships, etc. (68v–71r); elections from the aspects of the Moon with the other planets (71v–72r); ‘Utrum aliquis revertatur sanus de bello vel non. Aliquis iturus ad bellum si querat an sanus...’ (72v–75v); Wilhelmus Scotus, *De coniunctionibus planetarum transitis et futuris* (76v); tables: coordinates of cities, ascensions, fixed stars for 1339 in Paris, etc. (77r–77v); ‘Saturni sunt viles homines, populares, rustici...’ (79r–80r); table of contents of f. 84–113 (83v); *Liber novem iudicum*, excerpts (84r–102v); Messahallah, *Epistola de rebus eclipsium* (102v–104v); ‘Astronomia medicorum. Nota ex tractatu quodam iudicali facto ad utilitatem medicorum...’ (copied twice, by a later hand f. 104v and by the scribe f. 105r); Pseudo-Albertus Magnus, *Speculum astronomie* (106r–113v). Blank: 76r, 78, 80v–83r, 105v.

Bibl. J. Marx, *Verzeichnis der Handschriften-Sammlung des Hospitals zu Cues*, Trier, 1905 (reprinted Frankfurt/Main, 1966), 198–201; Krchňák 1963, 145–48; Zambelli/Caroti 1977, 144–45; C. Burnett, ‘*Partim de suo et partim de alieno*: Bartholomew of Parma, the Astrological Texts in MS Bernkastel-Kues, Hospitalsbibliothek 209, and Michael Scot’, in *Seventh Centenary of the Teaching of Astronomy in Bologna, 1297–1997*, eds P. Battistini, F. Bònoli et al., Bologna, 2001, 37–76: 38 and *passim*; Paravicini Bagliani 2001, 27–28.

1r–26r ‘Incipiunt iudicia Ptholomei. De operatione planetarum in concepto per dies et menses — per modum constitute nature. Explicit liber iudiciorum Ptho<lomei> regis Egipti in arte stellarum.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**, reworking (same as in MS ↗Budapest, MTAk, K 440). No glosses.

Bernkastel-Kues, Cusanusstiftsbibliothek, 212

s. XVⁱⁿ (1416 for f. 326r–327r; 1418 for f. 297r–309r and 310r–322v; 1419 for f. 234va–237vb; planetary positions for 1420–1421 f. 280v). **Or.:** perhaps northern Italy (see f. 127v). **Prov.:** Nicolaus Cusanus c. 1425, notes in his hand f. Iv, Iiv and III; St Nikolaus Hospital in Kues in 1464.

Paper, III + 407 f., numerous contemporary hands, one of which copied the Ptolemaic section (f. 323r–326r).

Astronomy, astrology, optics and arithmetic: representations of the seven planets in medallions with notes (Ir); Nicolaus Cusanus's astronomical and astrological notes concerning the years 1424 and 1418 (Iv); representation of a pope, probably Martin V, with notes (IIr); Nicolaus Cusanus's note mentioning the year 1425 (IIv); Nicolaus Cusanus, astrological history for the year 1425 (IIIr–IIIv); Alfonsine tables with canons (1r–108r); *Theorica planetarum Gerardi* (108v–117v, with extensive glosses starting f. 108r); Pseudo-Messahallah, *De compositione astrolabii* (118ra–126vb); 'Partem proportionalem alicuius vel aliquorum numerorum...' (127ra); 'Canon tabule longitudinis et latitudinis civitatum...' (127rb); coordinates of cities, mainly northern Italian (127va–127vb); correspondences between zodiacal signs and cities (128ra–128rb); *Liber de motibus planetarum*, excerpts (130r–130v); Campanus of Novara, *Theorica planetarum*, excerpts (131r–141v); astronomical notes on the planets (142r–145v); Sacrobosco, *De sphaera* (146r–166r); astronomical notes on the planets (166va–166vb); beginning of an astronomical text 'Feci quidem celum...' (167ra–167vb); John of Stendal, comm. on Alcabitus's *Introductorius* (170ra–204rb); 'Nemo hanc scientiam plene laudare potest...' (205ra–213rb); 'Sequitur de Venere et Mercurio...' (217ra–225vb); Alkindi, *De mutatione temporum* (227ra–234ra); Messahallah, *Epistola de rebus eclipsium* (234va–235va); *Astronomia Ypocratis* (235va–237vb); 'Sequitur videre quod planete operentur in conceptione puerorum...' (238ra–238vb); Johannes Peckham, *Perspectiva communis* (239r–250v); Hermann of Carinthia, *Liber imbrium* (251r–253v); 'In nomine Patris... intendimus in hoc opusculo determinare quo anno, quo mense anni, quo die mensis, qua hora diei vel noctis eclipsis Solis vel Lune aliqua sit futura...' (254r–257r), with tables (257v–280r); incomplete list of planetary positions for 1420–1421 (280v); astronomical tables (281r–296v); John of Ligneres, *Algorismus de minutiis* (297r–309r); 'Incipiunt dicta auctorum antiquorum in astronomia. Luna fuerit in Ariete 18a die Iulii, erit anno illo ventus orientalis...' (310r); Messahallah, *In pluviis et ventis epistola* (310v–311v); Albumasar, *Flores* (311v–319r); Sem filius Haym, *Capitulum in narratione Saturni quid accadat in mundo* (319r–320r); Gergis, *De significatione septem planetarum in domibus* (320r–322r); 'A prima facie Arietis ascendet forma hominis nigri...' (322r–322v); **Ptolemaica (323ra–326ra)**; 'Aries est primum signum celi zodyaci... Explicit compendium de signis secundum eorum naturas et domuum planetarum in eis existentium et de stellis in eis positis in celo variis ad eorum cognitionem 1416' (326rb–327rb); Alcabitus, *Introductorius*, Book III (328ra–329vb); astrological diagram with notes (331r); 'Nota in aliquibus signis sunt aliqui gradus qui dicuntur azemena...' (331v); *Theorica planetarum Gerardi*, beginning only (332ra); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (332va–333va); Haly Abenragel, *De iudiciis astrorum*, Book I, beginning only (335ra–349ra); Alkindi (?), *Saturnus in Ariete sub radiis...* (350ra–350vb); Haly Abenragel, *De iudiciis astrorum*, Book VIII, incomplete (353ra–364vb); 'Quando Iupiter applicuitur...' (367ra–368rb); 'Nota de quatuor temporibus caloris et frigoris...' (368va–372rb); astrological notes on the signs and planets (372v); Boethius, *De arithmetica* (375ra–382vb); Alcabitus, *Introductorius*, Book I, abrupt end (387ra–391vb); notes on William of Saint-Cloud's *Almanach planetarum* 1293–1311 (405r–406r). Blank: 22v, 23, 37v, 44v, 67–68, 71, 128v–129v, 168–169, 204v, 213v–216v, 226, 309v, 327v, 330, 334, 349v, 351–352, 365–366, 373–374, 383–386, 392–404, 406v–407v.

Bibl. J. Marx, *Verzeichnis der Handschriften-Sammlung des Hospitals zu Cues*, Trier, 1905 (reprinted Frankfurt/Main, 1966), 203–08; Krchňák 1963, 168–71; Harper 1966, 21; Benjamin/Toomer 1971, 120 n. 8; U. Roth, ‘Die astronomisch-astrologische “Weltgeschichte” des Nikolaus von Cues im Codex Cusanus 212. Einleitung und Edition’, *Mitteilungen und Forschungsbeiträge der Cusanus-Gesellschaft* 27 (2001), 1–29; Nothaft 2018, 172.

323ra–326ra ‘Signorum alia sunt masculini generis, alia feminini generis. Femini ut Thaurus, Cancer, Virgo — ab eo in Saturnum et proiciatur ab ascendente. Explicit Abbidazar liber introductorius ad honorem Alchabizi, id est Dei, Ry b. Hey (?).’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**, incomplete. No glosses.

Bernkastel-Kues, Cusanusstiftsbibliothek, 215

s. XIV¹. **Or.:** France (?). **Prov.:** Nicolaus Cusanus; St Nikolaus Hospital in Kues in 1464.

Parchment, 132 f., a single neat hand, decorated initials.

Optics and astronomy: Johannes Peckham, *Perspectiva communis* (1ra–24rb); William of Saint-Cloud, *Almanach planetarum* 1293–1311 (24va–31va); Prophatius Judeus, *Almanach* (32r–94v); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (95ra–96ra); Pseudo-Thebit Bencora, *De motu octave spere* (96rb–98v); **Ptolemaica (99ra–101rb)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (101rb–102va); astronomical tables with canons, in French (103r–132vb).

Bibl. J. Marx, *Verzeichnis der Handschriften-Sammlung des Hospitals zu Cues*, Trier, 1905 (reprinted Frankfurt/Main, 1966), 209–11; Krchňák 1963, 174–75; Harper 1966, 21; J.-P. Boudet, M. Husson, ‘The Earliest Astronomical Tables in French (c. 1271)’, *JHA* 43 (2012), 287–98: 287–88.

99ra–101rb ‘Incipit liber Tebit de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Tebit filii Core de hiis que indigent expositione antequam legatur Almagesti’ [added, probably by the same hand: ‘sive liber de diffinitionibus’].
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Bologna, Biblioteca Comunale dell’Archiginnasio, A. 38

s. XV^{ex}. **Prov.:** Giovanni Antonio Magini (f. 1r: ‘Jo. Antonii Magini’).

Paper, 166 f. unnumbered, a single neat hand, reserved initials.

Ptolemaica (single text). Blank: 165–166.

Bibl. Mazzatinti 1892–1926, XXX, 29.

- 1r–164v ‘Reverendissimo in Christo patri ac domino domino Bessarioni episcopo Tusculano, sancte Romane Ecclesie cardinali, patriarcha Constantinopolitano, Ioannes de Regio Monte se offert devotissimum. <A>dmiranti michi ssepenumero vel potius graviter et inique serenti tam raros esse etate nostra optimarum... (2v) Epithoma in Almagestum Ptolomei. <R>ecte profecto meo iudicio nobiliores philosophi, o Sire, distinxerunt inter theoricam philosophie et practicam partem — quod postremo hoc in theoreumate explorare et cepto labori modum statuerit decrevimus. Amen. Finis epithomatis Ioannis de Monte Regio in Almagestum Ptolomei.’
 = **Johannes Regiomontanus, *Epitome Almagesti* (C.1.21)**. Preface, 1r–2v; Book I, 2v–15v; II, 15v–28v; III, 28v–43r; IV, 43r–53r; V, 53r–70v; VI, 70v–86r; VII, 86r–92v; VIII, 92v–101v; IX, 101v–116r; X, 116r–128v; XI, 128v–140r; XII, 140r–148v; XIII, 148v–164v. No glosses.

Bologna, Biblioteca Comunale dell’Archiginnasio, A. 1855

s. XV. **Prov.:** ‘Ex libris Serviti di Bologna’ (Mazzatinti).

Paper, 10 f. (unnumbered), a single hand.

Ptolemaica (single text).

Bibl. Mazzatinti 1892–1926, XXXVI, 192.

- 1r–10v ‘Eam pingendi gratias antiqui feruntur habuisse consuetudinem ut unam quidem multum adversam... (2r) Proemium auctoris. Valde bene qui proprie philosophati sunt, o Syre, videntur mihi sequestrasse theoreticum a practico philosophie — rem subtenditur. Et est canonii descriptio talis...’
 = **Ptolemy, *Almagesti*, tr. Sicily c. 1150 (A.1.1)**, translator’s preface and I.1–10, with abrupt end in the middle of f. 10v. No glosses, but a few corrections by the scribe.

Bologna, Biblioteca Universitaria, 198 (293)

s. XV². **Or.:** Italy. **Prov.:** Ercole Bottrigari (f. 1r and 3r: ‘Ex bibliotheca Herculei Bottrigarii’).

Paper, 128 f., a single neat hand.

Ptolemaica (single text). Title added by another hand f. 1r: ‘Ioannis Bianchini Tractatus decem arithmetici, algebraici, geometrici, astronomici.’ Blank: 1v–2v, 21–22, 126–28.

Bibl. L. Frati, *Indichi dei codici latini conservati nella R. Biblioteca Universitaria di Bologna*, Firenze, 1909, 190; L. Thorndike, ‘Giovanni Bianchini in Italian Manuscripts’, *Scripta Mathematica* 19 (1953), 5–17: 11–13.

- 3r–125v ‘Tractatus primus de arismetica per Ioannem de Blanchinis. Liber primus. Incipit proemium. <A>rismetica dico quod determinatur per numeros, et

duas noto diffinitiones numerorum — et si excesserit minuta 50 erit grisium cum albedine.’

= **Giovanni Bianchini**, *Flores Almagesti* (C.1.17). I, 3r–15v; II, 16r–20v; III, 23r–32v; IV, 32v–36v; V, 37r–56v; VI, 57r–72v; VII, 73r–102r; VIII, 102r–109v; IX, 110r–120r; X, 120r–125v. Corrections and marginal notes by the scribe.

Bologna, Biblioteca Universitaria, 326-II (213) [Plate 28]

s. XVI² (1560). **Or.:** Bologna, autograph of Ercole Bottrigari.

Paper, 569 f., one hand. MS 326 is made of three folders containing various works by Ercole Bottrigari. Only the second folder concerns us.

Ptolemaica (single text). Blank: 1–2, 569.

Bibl. L. Frati, *Indichi dei codici latini conservati nella R. Biblioteca Universitaria di Bologna*, Firenze, 1909, 195.

3r–568v ‘Mathematicae operationes omnes quae in magnae Cl<audii> Ptolemaei Pelusiensibus Alexandrini compositionis astronomicae Almagesti vulgo nuncupatae, lib. XIII continentur... Ab Hercule Bottrigario geometrice ac arithmetice propria eius manu demonstratae, Bononiae, 1560.’
= **Ercole Bottrigari**, *Mathematicae operationes omnes quae in Magnae Ptolemaei compositionis astronomicae libris XIII continentur* (C.1.31).

Bologna, Biblioteca Universitaria, 1218 (1995)

s. XVI^{ex}–XVIIⁱⁿ. **Prov.:** Rovigo, Olivetan monastery of San Bartolomeo (Mazzatinti). Mazzatinti attributes the first item (f. 1r–15r) to Barnaba Riccobono, abbot of San Bartolomeo from 1590 to 1627.

Paper, 192 f., several hands, one of which copied f. 42–79. F. 17–41 are missing.

Astronomy, astrology and mathematics, mainly in Italian: ‘Breve dechiaratione dell’effemeridi delle stelle del cielo’ (1r–15r); astronomical diagram (16r); *Ptolemaica* (42r–79v); ‘Del circolo e sue parti’ and other questions of geometry (81r–105r); ‘Introduttione alla diottrica’ (114r–140r); ‘Trattato del compasso trigonometrico’ (144r–161v); ‘Regola del tre’ (163r–171v); ‘Matematica’ (172r–191v). Blank: 15v, 16v, 80, 105v–113v, 140–143, 162, 192.

Bibl. Mazzatinti 1892–1926, XXI, 187.

42r–79v ‘Claudii Ptolemaei mathematici de iudiciis liber tertius, cap. primum, quod est proemium. Textus primus. Explicata a nobis in prioribus communium eventuum consideratione, nimirum quae et natura praecedit, et plurimum valet in peculiarium... Expositio. Audio rationes Ptolom<ei> in hoc tex<tu> — (77v) Soli luxuriosos efficit.’

= *Commentum in Quadripartitum (I)* (C.2.37). Book III, 42r–59v (52r–53v and 57v–59v blank); IV, 60r–77v; additional notes, 78r–79v. Corrections by the scribe.

Boston, Public Library, Ms. f.E.190.82 (Boncompagni 469)

s. XVII. **Prov.:** Baldassarre Boncompagni (1821–1894).

Paper, I + 328 f. numbered 1–182 and 1–146, 316 x 222 mm.

Ptolemaica (single text).

Bibl. Narducci 1892, 278; Thomson/Folkerts 2021, 39.

1r–182v + ‘(1r–182v) Valentini Naibodae mathematici praeclarissimi in Claudii
1r–140v Ptolomaei Quadripartitae constructionis apotelesmaticum tertium
comentarius novus et eiusdem conversio nova. Caput primum, quod
est proemium. Postquam in superioribus explicata est a nobis casuum
universitati — (182r) opponitur loci dominus extiterit, in suo loco
dictum est. Finis libri tertii Ptolomaei. (182v) Adverte quod in genitura
Iohannis Baptista Cardani horoscopus est gradu 15 Sagittarii — ad qual-
itatem mortis ex capitis truncatione significandam. (1r–140v) Valentini
Naibodae mathematici praeclarissimi in Claudii Ptolomaei Quadripartitae
constructionis apotelesmaticum quartum commentarius novus et eiusdem
conversio nova. Caput primum, quod est proaemium. Tex<to> primo.
Quaecumque de utrisque et quae genituram praecedunt et quae eidem
adiunguntur cognosci poterant — carcerum tormentorumque minis
pecunias excutiant.’
= **Valentin Nabod, *In Claudii Ptolomaei Quadripartitae constructionis
apotelesmata commentarius novus et eiusdem conversio nova* (C.2.30),**
Books III–IV. No glosses on the pages for which we have reproductions,
i.e. f. 1r–2r, 180v–182v (first part) + f. 1r–2r and 139v–140v (second part).

Boulogne-sur-Mer, Bibliothèque Municipale, 198

s. XIII² (IRHT; 14th c. acc. *Catalogue general* and Lemay). **Or.:** northwestern Italy, perhaps Genoa (IRHT). **Prov.:** cathedral Notre-Dame of Arras in the 15th c., cf. f. 126v: ‘Iste liber est mandati pauperum Attreb<atensium> [Arras] et fuit quondam I. Crispi decani.’

Parchment, 126 f., a single neat hand, decorated initials.

Medicine and astrology: table of contents, added (1r); Johannes Damascenus, *De simplicibus medicinis* (2r–52r); *Ptolemaica* (52v–70r); Marbode of Rennes, *De lapidibus* (70v–79v); Mattheus Platearius, *Commentarius in Nicolai Antidotarum* (80r–121r); medical glossary ‘Aaron: Pes vituli iarus...’ (121v–126r). Blank: 1v, 126v (except owner’s note).

Bibl. *Catalogue général des manuscrits des bibliothèques publiques de France des départements*, in-4^o, IV, Paris, 1872, 695–96; Lemay 1999, I, 233–34; IRHT, online entry at <http://initiale.irht.cnrs.fr/>.

52v–70r ‘Expositio Abuiafar Hamet filii Ioseph Abrahe scriptoris super librum Tholomei qui liber fructus arboris intitulatur. Dixit Tholomeus: Iam scripsi tibi, Iesure, de hoc quod operantur stelle in hoc seculo... Verbum primum. Sciencia stellarum ex te et illis est... Quod dicit Tholomeus, ex te et illis, significat quod qui res futuras — et ego Deum deprecor ut te diligat. Perfecta est huius libri translatio 17 die mensis Mercurii (!), 12 die mensis Iumedi secundi anno Arabum 530. Explicit liber Centilogii Pthol<omei>.’
= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. Plato of Tivoli (C.3.1.1)**. Occasional short marginal notes by the scribe and by another hand.

Brno, Moravská Zemská Knihovna (*olim* Universitní Knihovna), A 64

s. XV² (at least partly copied in 1477, cf. f. 370v). **Or.:** at least partly copied in Cologne (cf. f. 370v: ‘Anno domini 1477 in Colonia ipsa die Saturni in profecto sancti Martini est finita materia hec. Item in anno 1478, undecima die Martii intravit Sol in Arietem hora decima et erat ascendens Cancer et Luna in ea 8 gradibus... Et Colonia a Parisius distat...’). **Prov.:** Brno, monastery St Thomas (cf. f. 1r: ‘Conventus S. Thomae Bnunae (?)’, 16th c.).

Paper, 445 f., several alternating hands.

Astrology, astronomy and arithmetic: Guido Bonatti, *Liber introductorius ad iudicia stellarum*, Book V, beginning only (1r–1v); notes on the distances between the celestial spheres ‘Item nota quod spacium quod supponitur in terra...’ (2r); Alcabitius, *Introductorius* (4r–43v); Zael, *Liber iudiciorum* (43v–83v); astronomical text (84r–86v); Albohali, *De nativitatibus*, tr. Johannes Toletanus (86v–103v); ‘De hyles investiganda. Investigando itam (?) gradus ascendentis utilis hylles (!)...’ (103v); **Ptolemaica (103v–104r)**; ‘Cuiusque arcus sinum propositum rectum...’ (105r–111r); Abraham Avenezra, *Liber nativitatum et revolutionum earum*, tr. Pietro d’Abano (112r–132r); table of lunar mansions dated 1392 (132v–133v); ‘Natus sub Ariete habet multos c...es (?) in corpore...’ (134r–135v); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, Book V (136r–163r); John of Ligneres, *Theorica planetarum* (163v–177v); John of Saxony, *Canones* ‘Canones tabularum regis Alphoncii. Sicut dicit Aristoteles quarto Phisicorum, tempus est mensura motus...’ (178r–191v); ‘Nota ad componendum horologium achas fac semicirculum...’ (191v); ‘Ad (?) composicionem almanach posteris...’ (192r–193v); Albumasar, *Introductorium maius*, tr. John of Seville (194r–342r); John of Saxony, *Canones* ‘Tempus est mensura motus ut vult Aristoteles quarto Phisicorum...’ (343r–370v); Prophatius Judeus, *Quadrans novus* (371r–383r); Messahallah, *De mercibus* (383r–385v); Hermann of Carinthia, *Liber imbrium* (385v–387v); Hermes, *Centiloquium* (387v–389v); *Capitula Almansoris* (389v–392r); *Theorica planetarum Gerardi* (393r–399v); Robertus Anglicus, *Quadrans vetus* (400r–406r); Pseudo-Messahallah, *De compositione astrolabii* (406v–420r); ‘Datam collumnam rotundam altera parte longiorem...’ (420v–423v); ‘Generaciones proporcionum. Si

multas proporciones habere volueris...' (424r–424v); 'Sequitur algorismus de proporcionibus. Proporcione rationalem proporcione rationali addere...' (424v–426v) and further texts of arithmetic (426v–432r); Peurbach, *Theoricae novae planetarum* (434r–445v). Blank: 2v–3v, 111v, 342v, 392v, 432v–433v.

Bibl. V. Dokoupil, *Catalogi codicum manuscriptorum in Bibliotheca Universitatis Brunensis asservatorum*, I, Brno, 1957, 66–69; Kristeller 1963–1992, III, 153–54; Malpangotto 2020, 654.

103v–104r ' <D>ixerunt Pto<lome>us et Hermes quod Lune locus in hora qua — et hoc expertum fuit multociens etc.'
= **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5). No glosses.

Bruges, Openbare Bibliotheek, 519

s. XIII. **Prov.:** Ter Doest Abbey, near Bruges.

Parchment, 257 f. only partially foliated, several neat hands. This was intended to be a deluxe MS, but was left unfinished. The initials have not been executed and most tables and diagrams are missing or incomplete.

Ptolemaica (single text). Title added by an early modern hand on f. 1r: 'Libri Almagesti Ptholomaei'. Blank: 257v.

Bibl. A. De Poorter, M. Alliaume, 'Catalogue des manuscrits mathématiques et astronomiques de la Bibliothèque de Bruges', *Annales de la Société d'Emulation de Bruges* 65 (1922), 13–50: 23; A. De Poorter, *Catalogue des manuscrits de la bibliothèque publique de la ville de Bruges*, Gembloux-Paris, 1934, 608; M. T. Isaac, *Les livres manuscrits de l'Abbaye des Dunes d'après le catalogue du XVII^e siècle*, Verviers, 1984, 432–33; Kunitzsch 1986–1991, II, 13.

1r–257r ' <Q>uidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (2r) onum scire fuit quod sapientibus non deviantibus (added in the margin: visum est cum partem speculationis a parte operationis diviserunt que sunt) due sapientie — et abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Explicit.'
= **Ptolemy**, *Almagesti*, tr. **Gerard of Cremona** (A.1.2), Class A. Preface, 1r–2r; I, 2r–21v; II, 21v–44r; III, 44v–61r; IV, 61r–79r; V, 79r–104v; VI, 104v–128v; VII, 128v–147v; VIII, 147v–164r; IX, 164r–177r; X, 177r–190v; XI, 190v–208v; XII, 208v–230r; XIII, 231r–257r. As noted above, most tables and diagrams are missing or incomplete, except however for the star catalogue. No glosses.

Bruges, Openbare Bibliotheek, 520

s. XIII^{ex}–XIVⁱⁿ (f. 1–45), XIV^{ex}–XVⁱⁿ (f. 48–135) and XIV¹ (f. 136–140). My thanks to Stefan Georges for help regarding the date of the MS.

Parchment, I + 140 + II^a f., composite MS made of four parts, each copied by a single hand (f. 1–45, 48–112, 113v–135v and 136r–140v), reserved initials and titles f. 1–112.

Astrology and astronomy: added title, 17th c. ‘Ptholomeus de iudiciis astrologiae cum quodam alio tractatu astrologiae’ (Iv); **Ptolemaica (1r–45r and 48r–112r)**; astrological table of terms (113v), decans (114r) and degrees (115v–116r); **Ptolemaica (120r–135v)**; Alfonsine star catalogue for the twelve zodiacal constellations (136r–140v). Blank: Ir, 45v–47v, 112v–113r, 114v–115r, 116v–119v, I^a–II^av.

Bibl. A. De Poorter, M. Alliaume, ‘Catalogue des manuscrits mathématiques et astronomiques de la Bibliothèque de Bruges’, *Annales de la Société d’Emulation de Bruges* 65 (1915–1922), 13–50: 23–24; A. De Poorter, *Catalogue des manuscrits de la bibliothèque publique de la ville de Bruges*, Gembloux-Paris, 1934, 608–09.

1r–45r ‘<R>erum, Iesure, in quibus est pronosticabilis scientie stellarum profectio magnus et precipuus duas deprehendimus — ad parvitatem ut Piscis, Cancer et Capricornus. Item id quod ex Ariete [continued over 12 lines by another hand] Tauro et Leone versus eorum initia — coadunatas nobis inde conincere (!) convenit.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I.1–III.11. I, 1r–17r; II, 17r–32r; III, 32r–45r. The text breaks off at the end of ch. III.11. A few marginal notes, including the chapter titles, perhaps by the scribe, and a few marginal notes by a later hand.

48r–112r ‘<D>e hiis que ad totum librum perninent. Quid potissimum per astronomiam quis valeat... (table). <I>uxta providam philosophorum assertionem quos videlicet in prescientia futurorum — conferunt precipue hiis que mortis ducatum administrant.’

= **Ptolemy, *Quadripartitum*, tr. Hugo Sanctelliensis (A.2.2)**. I, 48r–68r; II, 68v–87r; III, 87v–102r; IV, 102v–112r. The text breaks off just before the last sentence of IV.9. No glosses.

120r–135v ‘Stelle que sunt in cingulo orbis signorum. Arietis. Stella antecedens duarum que sunt super Cornu: 0° 0′ 4′ – 7° 20′ – 3. Sequens earum: 0° 6′ 40′ – 8° 20′ – 3 — Sequens hanc et est super extremitatem pedis sinistri: 1° 6′ 20′ – 11° 0′ – 3.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, VII.5–VIII.1, star catalogue for the twelve zodiacal constellations (Aries-Pisces), 120r–132r; Ursa Minor, 132r; selection from other constellations ending with Perseus, 132v–135v. No glosses.

Bruges, Openbare Bibliotheek, 523

s. XIII² (f. 65–110; f. 1–45 date from the 14th c. and f. 46–63 from the late 13th or early 14th c. — my thanks to Stefan Georges for dating). **Prov.:** Ter Doest Abbey (?).

Parchment, 110 f., composite MS made of five parts, each copied by a single hand: f. 1–45, 46–63, 64–65, 66–78, 79–110.

Astrology, astronomy and computus: Alcabitius, *Introductorius* (1ra–15va); ‘Cum fuerit Luna cum Capite vel Cauda in uno signo est dies cavenda...’ (15va–15vb); Gergis, *De significatione septem planetarum in domibus* (16va–18rb); astronomy ‘Theorica est perfecta notitia rerum solo intellectu capiendarum...’ (18va–20vb); *Theorica planetarum Gerardi* (21ra–26vb); ‘Sciendum quod planetarum quidam sunt...’ (26vb–28va); Peter Peregrinus of Maricourt, *De magnete* (28va–31ra); John of Murs, *Demonstratio quantitatis et figure maris aenei Salomonis* (31ra–32v); John of Saxony, *Canones* (33ra–44vb); Petrus de Sancto Audomaro, *Quadrans novus*, attr. Prophatius Judeus only (46r–62r), with unfinished drawings of a quadrant (62v–63r); Pliny, *De presagiis temporum* (64r–65r); **Ptolemaica (66r–78v)**; Pseudo-Messahallah, *De compositione astrolabii* (79r–85v); Sacrobosco, *Algorismus* (86r–90v); Robert Grosseteste, *Computus* (91r–110r). Blank: 16r, 45, 63v, 65v.

Bibl. A. De Poorter, M. Alliaume, ‘Catalogue des manuscrits mathématiques et astronomiques de la Bibliothèque de Bruges’, *Annales de la Société d’Emulation de Bruges* 65 (1915–1922), 13–50: 31–34; A. De Poorter, *Catalogue des manuscrits de la bibliothèque publique de la ville de Bruges*, Gembloux-Paris, 1934, 615–18; Pedersen 1983–1984, II, 574; Lemay 1999, I, 235; Lohr/Nothhaft 2019, 25.

66r–78v ‘Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operatur (!) stelle in hoc seculo... Sciencia stellarum ex te et illis est... Quod dixit Pthol<omeus>, ex te et illis est, significat quod qui res futuras — et ego Deum precor ut te diligit. Perfecta libri translatio ... (?) die mensis Marcii et die mensis Iumedi secundi anno 530. Expliciunt Verba Tpholomei (!).’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. No glosses.

Brussels, Bibliothèque Royale, 1022–1047 [Plate 12]

s. XV¹ (1443 for f. 184v–197v, cf. f. 196r; 1410–1415 for f. 29r–82v, cf. f. 39vb, 52va and 82vb). **Or.:** University of Cologne: f. 101r–226v copied by Paul of Gerresheim (cf. f. 184v); f. 13r–98v copied by Petrus de Wijlre (cf. f. 82vb: ‘Est finis anno 1415^o in crastino sco<lastice>, scriptum Colonie anno domini 1415^o incompleto in crastino scolastice Virginis per manus magistri Petri de Wijlre prope Hassel [Hasselt]’), who matriculated at the University of Cologne in 1401, was elected rector of that university in 1425 and died in 1447. This Petrus de Wijlre is identical with Petrus de Juliaco [Jülich] (cf. *Manuscripts datés*, II, no. 120), the author of two texts found in this MS, f. 89va–98vb and 172v–184r. **Prov.:** Cologne, Charterhouse St Barbara.

Parchment and paper, II + 252 f., four hands: f. 1r, 13–98 (Petrus de Wijlre), 101–226 (Paul of Gerresheim) and 238–252.

Astronomy, mathematics and astrology: table of contents, by two late medieval hands (Iv) (ed. Benjamin/Toomer, 61); table: motion of the eighth sphere (1r); astronomical tables with canons ‘Per tabulam post hec descriptam Solis equationem...’ (13r–16v); Alfonsine tables (17r–28v); John of Saxony, *Canones* (29ra–37rb); ‘Ad eclipsim Solis inveniendum... Expliciunt canones eclipsium Solis et Lune ordinati Parisius per magistrum Iohannem de Saxonia anno domini 1330’ (37rb–39vb); John of Murs, *Sermo de regulis compotistarum*

(40ra–40vb); John of Murs, *Tabula tabularum*, canons (41ra–43va); ‘Canones tabularum illustris regis Alfoncii. Quoniam canones tabularum regis Alfoncii...’ (43va–47vb); Campanus of Novara, *Theorica planetarum* (48ra–82vb); Pseudo-Albertus Magnus, *Speculum astronomie* (83ra–89rb); ‘Opus magistri Petri de Iuliaco. Plurimi quidem scientie astronomie amatores tedio laboris...’ (89va–98vb); Campanus of Novara, *Compotus maior* (101r–147v); calendar (148r–154r); John of Murs, *Canones* (154v–158v); ‘Regule ad solvendum diversa enigmata per arismetriam (!). Ad multiplicandum numerum integrorum...’ (159r–161r); John of Ligneris, *Algorismus de minutiis* (162r–172r); ‘Incipit tractatus magistri Petri de Iuliacho de modo regulandi sive mensurandi vasa. Cum de quorundam corporum regularium...’ (172v–184r); **Ptolemaica (184v–197v)**; Richard of Wallingford, *Tractatus rectanguli* (198v–202v, attr. Simon Tunstede by added notes in the margin of f. 198v and 200r); John of Murs, *Sermo de regulis compotistarum* (203r–204v); table: coordinates of cities, mainly German, with notes (205r–205v); notes and figures of geometry (206r–206v); computus table 1440–1970, with canon (207v–208r); Sacrobosco, *Algorismus* (210r–216v); Nicole Oresme, *Algorismus proportionum* (217r–222v); John of Murs, *Arithmetica speculativa* (223v–226v); Nicole Oresme, *Tractatus contra iudiciarios astronomos* (238ra–241va); Pierre d’Ailly, *Tractatus de legibus et sectis contra superstitiosos astronomos* (242ra–252ra). Blank: Ir, II, 1v–12v, 99–100, 161v, 198r, 207r, 208v–209v, 223r, 227–237, 252v.

Bibl. *Inventaire de Manuscrits de l’ancienne Bibliothèque Royale des Ducs de Bourgogne*, Bruxelles, 1839, 21; R. Calcoen, *Inventaire des manuscrits scientifiques de la Bibliothèque Royale de Belgique*, I, Bruxelles, 1965, 34–37; Benjamin/Toomer 1971, 61–66; *Manuscrits datés conservés en Belgique*, II: 1401–1440, eds F. Masai, M. Wittek, Bruxelles-Gand, 1972, 17 (no. 108), 21–22 (nos 117 and 120) and 91 (no. A175); Zambelli/Caroti 1977, 107–10; *Manuscrits datés conservés en Belgique*, III: 1441–1460, eds F. Masai, M. Wittek, Bruxelles-Gand, 1978, 20 (no. 237) and 39 (no. 278); Kristeller 1963–1992, III, 90; Paravicini Bagliani 2001, 13–14.

184v–197v ‘Expositio practice tabule tabularum et propositionum Ptolomei pro compositione tabule sinuum et cordarum necessarium, facta pro simplicibus per me Paulum de Gherisheim. Necessitatem et utilitatem tabule sinuum et cordarum astronomorum signifier Ptolomeus ostendit in prima dictione sui Almagesti — (196r) tabule sinuum et cordarum. Sequitur nunc ipsa tabula rectificata anno domini 1443’ (followed by the table f. 196v–197v).

= **Paul of Gerresheim, *Expositio practice tabule tabularum et propositionum Ptolomei pro compositione tabule sinuum et cordarum necessarium* (C.1.16).** Autograph copy. Glosses by the author.

Brussels, Bibliothèque Royale, 2962–2978

s. XV^{ex}–XVIⁱⁿ (the year 1500 mentioned f. 125v; 1503 for f. 126r–156v; the year 1496 mentioned f. 158v). **Or.:** probably Germany for most of the MS; f. 126r–156v apparently copied in Italy (f. 126r: ‘tota notus in Italia, 1503’).

Paper (f. 1–231) and parchment (f. 232–248), 248 f., several hands, one of which copied f. 9r–121v, 157r–168v, 177r–181r, 211v–212r and 215r–215v.

Astronomy, mathematics, computus and various: scattered notes, partly in German (1r–8v); ‘Compositiones diversorum horologiorum secundum magistrum Fredericum Weiis de Ratispana [Regensburg]. Ad protrahendum duas lineas rectas in angulo...’ (9r–26v); diagram ‘Hore equales ab ortu Solis...’ (27v–28r); ‘Compositio organi Ptolomei. Describe circulum ad planum (?) ABCD divisum 24 partes...’ (29r–29v); ‘De magnete. Dicendum est de magnete quod inter omnes lapides...’ (37r–39v); Nicolaus Cusanus, *De mathematicis complementis* (45r–77v); Nicolaus Cusanus, *De mathematica perfectione* (78r–88r); ‘De quadratura circuli secundum magistrum Fredericum Regesteden<sem>. Dividatur diameter circuli in 35 partes... (90r) Conclusiones dividendi rotas pro horologio astronomico pro motibus planetarum. Habita rota recti numeri...’ (89v–121v, this text includes, f. 90r–90v, the beginning of Richard of Wallingford’s *Tractatus horologii astronomici*); Regiomontanus, *Kalendarium* 1475–1506, adapted for 1504–1531 and dated 1503 (126r–156v); scattered notes and blank pages (157r–168v), including a biographical note on Paul of Gerresheim (160r); ‘Excerpta Palladii. Palladii librum breviatum per Godefridum. Accipe curta...’ (169r–176v); ‘Opus domini Bonifacii Quarti de dissolutione Lune et congelatione Mercurii et fixione eiusdem. Recipe vitrioli boni...’ (177r–181r); ‘Ars piscandi cum hamo’, in German and Latin (183r–191r); ‘Extracta per me Paulum ex tractatu magistri Leonis Iudei de Balneolis De baculo Iacob. Quadratum corde arcus minoris...’ (194r–210r); **Ptolemaica (211v–212r)**; notes and table on planetary motions (215r–215v); medical recipes (216r–218r); ‘Apertio serarum... Ad capiendum pisces... Ad extrahendum sagittam ex corpore...’ etc., in German (219r–225v); ‘Ars notabilis dicendi et modus persuadendi ac etiam amplificandi quodcumque thema. Ut ornate et devote scias loqui...’ (226r–229r); Walter Burley, *De vita et moribus philosophorum*, excerpts (232r–244v); ‘De iucicio urine secundum medicos. Quicumque voluerit scire infirmitatem suam...’ (245r–246v); ‘Nota: Fuerunt tres phylosophi qui inter alios multum loquaces fuerunt...’ (247r–248v). Blank: 27r, 28v, 30–36 (except notes f. 33r–33v), 40–44, 88v–89r, 122r–125v (except note f. 125v), 157v–158r, 159v, 160v, 161v, 162v–164r, 165r–166r, 167v–168r, 181v–182v, 191v–193v, 210v–211r, 212v–214v, 218v, 229v–231v.

Bibl. Zinner 1962, 20–21; R. Calcoen, *Inventaire des manuscrits scientifiques de la Bibliothèque Royale de Belgique*, I, Bruxelles, 1965, 57–61; North 1976, II, 309–10; Kristeller 1963–1992, III, 114.

211v–212r ‘Ptolemy in suo Almagesti. Data circuli diametro latera decagoni, pentagoni... Docet Ptolomeus per hanc propositionem — que sit BD et traho lineam.’
= **Paul of Gerresheim, *Expositio practice tabule tabularum et propositionum Ptolomei pro compositione tabule sinuum et cordarum necessarium* (C.1.16)**, excerpt with accompanying diagram. No glosses.

Brussels, Bibliothèque Royale, 18678–18681

s. XIV (12th–13th c. acc. Lemay). **Prov.:** Heverlee (Leuven), Park Abbey.

Parchment, 121 f., composite MS made of four parts (f. 1–10, 11–57, 59–98 and 99–121). Each part is copied by a single hand, except the first one, whose text was supplemented on f. 1v and 8r–10r by the same hand that copied the third part.

Astrology and geography: table of contents, 15th or 16th c. (1r); **Ptolemaica (1va–10ra)**; Solinus, *De mirabilibus mundi* (11r–57r); **Ptolemaica (59r–98v)**; Alcabitius, *Introductorius* (99r–121v). Blank: 10v, 57v–58v.

Bibl. P. Thomas, *Catalogue des manuscrits classiques latins de la Bibliothèque Royale de Bruxelles*, Gand, 1896, 95–96; R. Calcoen, *Inventaire des manuscrits scientifiques de la Bibliothèque Royale de Belgique*, IV, Bruxelles, 1980 [unpublished], no. 531; Lemay 1999, I, 336–38.

- 1va ‘Ptho<lomeus> dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, added on a page originally blank by the same hand that copied the end of the *Centiloquium* (see below) and f. 59–98. No glosses.
- 1vb ‘Dixerunt Ptho<lomeus> et Hermes quod locus Lune in hora qua — fuit expertus multotiens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, added on a page originally blank by the same hand that copied the end of the *Centiloquium* (see below) and f. 59–98. No glosses.
- 2ra–10ra ‘Mundanorum ad hoc et ad illud mutatio corporum celestium... Scientia astrorum ex te et illis est... Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras — et ego Deum deprecor ut te dilligat. Perfecta est libri translatio iam (!) die mensis Marcii et dicte (?) mensis I<m>medi (?) secundi anno 530. Expliciunt verba Ptho<lomei>.’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**, up to v. 79 (here numbered 80) by the first hand, then continued (f. 8ra) by the same hand that copied f. 59–98, starting with the commentary on v. 79. No glosses.
- 59r–98v ‘Capitulum primum in collectione intellectus sciencie iudiciorum astrorum. Capitulum secundum... Incipit Quadripartitus Ptho<lomei>. Rerum, Yesure, in quibus est pronosticabilis sciencie stellarum perfectio magnas et precipuas duas esse deprehendimus — in hoc loco huic libro finem imponere non incongruum existimamus. Explicit Deo gratias.’
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 59r–69r; II, 69r–78r; III, 78r–91r; IV, 91r–98v. Substantial glosses by the scribe on every page, some of which are borrowed from Haly Abenrudian.

Budapest, Magyar Tudományos Akadémia Könyvtára, K 440 (2° 10)

s. XIV. **Or.:** Italy (?). **Prov.:** Josephus Lugossy, who donated the MS to the Hungarian Academy of Science in 1844.

Parchment, 19 f., a single hand.

Astrology: **Ptolemaica (1ra–19ra)**; *tonitruale* ‘De cetera huius artis sunt valde dispersa in capitulis librorum...’ (19ra–19rb); ‘Saturnus est planeta et non stella...’ (19rb–19vb, abrupt end in the middle of the page).

Bibl. C. Csapodi, *Catalogi collectionis manuscriptorum Bibliothecae Academiae Scientiarum Hungaricae*, XVI: *Catalogus collectionis codicum Latinorum et Graecorum (K 393-K 500)*, Budapest, 1985, 136; Kristeller 1963–1992, IV, 289.

1ra–19ra ‘Incipit liber iudiciorum Tholomei regis in arte stellarum. Signorum celi zodiaci alia sunt masculina, alia feminina — ab influentia stellarum et planetarum, et hoc omni anno repetitur per modum constitute nature. Explicit liber iudiciorum Ptholomei regis Egypti in arte stellarum. Deo gracias.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**, reworking, as in MS ⁷Bernkastel-Kues, CSB, 209, but in a more complete version. A few short marginal notes by the scribe and by one or two later hands.

Budapest, Országos Széchényi Könyvtár, lat. 59

s. XIV¹ (the years 1339 and 1340 are given in two computistical figures f. 24v). **Or.:** Germany (‘Maria hilf uns’, f. 39r, hand of the scribe; added sections in German f. 30r–32v and 40v). **Prov.:** the texts on f. 40r–44r are 15th-c. additions ‘per manus fratris Georii Pictenburg (?)’, see f. 43v.

Parchment, 44 f., a single neat hand (except added sections f. 30r–32v and 40r–44r).

Theology, astrology and divination: ‘Incipit brevis tractatus de creatione mundi et angelorum et aliis multis bonis. Primo de trinitate. De trinitate Dei hoc tenendum...’ (1r–18r); *lunarium* ‘Luna prima: Hec dies omnibus agendis valet...’ (18v–19v); **Ptolemaica (19v–20v)**; table: planetary hours (20v); *Revelatio Esdrae* ‘Hec sunt signa Esdre prophete que dedit populo Dei. Die dominoco si fuerint kalende Ianuarii, hiemen calida prestabunt...’ (21r); ‘Pronosticatio verisima. Nil capiti facies Aries cum Luna refulget...’ (21r–21v); ‘Utrum per scientiam astrorum possit aliquis pronosticari de futuris vel occultis. Huic questioni et pluribus aliis respondit magister Rubertus Putanus scribens domino Guidoni decano Aurelianensi...’ (21v–30r); added sections in German, including verses (30r–32r) and the calculus of the victorious and the vanquished (32r–32v); end of a text of theology ‘... nos concives ubi gaudebimus sine fine’ (33r–39r); added sections: *Somniale Danielis* (40r–43v) and *lunarium* ‘Luna I quicumque sompniaverit ad gaudium perveniet...’ (43v–44r). Blank: 39v, 44v.

Note The text f. 21v–30r is an astrological compilation citing several authorities, including Ptolemy: ‘(26v) Quod sint comete. Sentencia Aristotelis est in libro Metheorum quod sunt 5, Ptolomei autem sententia (?) in Centilogio est quod sint 9...; (27r) Quod significant cometes et quare mortes magnorum et bella futura significare dicuntur. Ptolomeus in Centilogio dicit: Sic stelle cum caudis sunt 9...; (27v) Sapiens etiam dominatur astris sicut vult Ptolomeus in Centilogio...’

Bibl. *Catalogus Bibliothecae Musei Nationalis Hungarici*, XII: E. Bartoniek, *Codices Latini Medii Aevi*, Budapest, 1940, 51–52.

- 19v–20v ‘Canon Ptolomei et Pictagore de diversis eventibus secundum naturas planetarum. Inventum Ptolomei et Pictagore secundum naturas planetarum subtilissima doctrina compilatum — Sex et sex maior vincet. Sex et septem habens 7 vincet.’
 = **Pseudo-Ptolemy, *Canon Ptolomei et Pictagore de diversis eventibus secundum naturas planetarum* (B.18)**. No glosses.

Cambrai, Bibliothèque Municipale, 953 (851)

s. XIII² (c. 1265). **Or.:** Bologna, MS copied by the scribe Lafrancus de Pancis of Cremona.
Prov.: Cambrai, cathedral.

Parchment, 330 f., a single neat hand, painted initials at the beginning of each book of the *Almagest* (except f. 177v; reserved initial f. 198ra), beautifully decorated initials.

Ptolemaica (single text). Blank: 330v.

Bibl. *CGMB*, XVII, 393; Georges (forthcoming).

- 1ra–330ra ‘Quidam princeps nomine Albugaſe in libro ſuo quem ſcientiarum electionem et verborum nominavit... (2ra) Bonum domine fuit quod ſapientibus non deviantibus viſum eſt — (328ra) et abbreviationem, tunc iam ſequitur et honeſtum eſt ut ponamus hic finem libri. Expleta eſt dictio terciadecima libri Ptholomei et cum ea completur liber Almageſti de diſciplinilibus. Bonum, o Sure, fuit quod ſapientibus non fallacibus viſum eſt... (329rb) Capitulum primum in prologo huius libri. Bonum quod fecerunt in eo quod video illi qui preſcrutati — neque conſecuti ſunt ex eius comprehensione quod oportet.’
 = **Ptolemy, *Almageſti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 1ra–2ra; I, 2ra–21vb; II, 21vb–52vb; III, 52vb–73rb; IV, 73va–97vb; V, 97vb–128ra; VI, 128ra–154ra; VII, 154ra–177v; VIII, 177v–197vb; IX, 198ra–223vb; X, 223vb–244vb; XI, 244vb–274va; XII, 274va–300va; XIII, 300va–328ra. The explicit is followed by two alternative versions of ch. I.1: (1) al-Ḥajjāj’s version but in a different recension (same in MSS ↗ Melbourne, SLV, RARES 091 P95A, f. 172va–173ra, and ↗ [ZZ] *olim* Robert B. Honeyman Jr., no. 14, pp. 353–54), 328ra–329rb, and (2) Iṣḥāq’s version, 329rb–330ra. Substantial glosses by the scribe.

Cambrai, Bibliothèque Municipale, 955 (853)

s. XIII^{ex} (Stefan Georges, private communication). **Prov.:** cathedral of Cambrai.

Parchment, 129 f., a single hand, painted initials at the beginning of each section, numerous richly decorated initials.

Astrology: *Liber novem iudicum*, attr. Ptolemy: 'Incipit liber introductorius iudiciorum apotelesmaticon Tholomes' (1ra–40vb, incomplete, ending in XI.8); **Ptolemaica (41ra–128va and 128va–129rb)**; added table: planetary hours (129v).

Bibl. CGMB, XVII, 394–95.

41ra–128va 'Incipit liber 4 tractatum Ptolomei Alfilludhi in scientia iudiciorum astrorum. Et in primo tractatu sunt 24 capitula. Capitulum primum in collectione intellectus scientie iudiciorum astrorum. Rerum, Yesure, in quibus est prognosticabilis scientie stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro finem imponere non incongruum existimamus. Explicit liber 4 Tholomei in iudicandi discretione per stellas de futuris et in hoc mundo constitutionis et destructionis contingentibus.'
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 41ra–63ra; II, 63ra–83ra; III, 83ra–112va; IV, 112va–128va. Substantial glosses by the scribe, which often open 'Sensus huius littere est...', 'In alio...' or 'Dicit Haly...'. On f. 96r the size of the main text has been reduced so as to leave more room for the glosses, which shows that the text and the glosses were meant to form one unit. Occasional glosses by a later hand.

128va–129rb 'Scientia proiectionis radiorum. Cum proiectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate.'
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6)**. No glosses.

Cambridge, Gonville and Caius College, 35 (141)

s. XVⁱⁿ. **Or.**: England. **Prov.**: John Beverley, fellow of Gonville and Caius College, then canon of Lincoln (d. 1473), who donated the MS to the college, cf. f. 139r: 'Hunc librum donavit collegio annunciationis beate Marie Gunvyl Cant<abrigie> venerabilis magister Iohannes Beverle, sacre theologie professor et socius collegii predicti, cuius anime propicietur Deus.'

Parchment, 139 f., two hands (f. 1r–137r and 137v–139r).

Natural philosophy and astronomy: Thomas of Cantimpré, *De natura rerum* (1ra–137ra); **Ptolemaica (137va–139ra)**. Blank: 139v.

Bibl. M. R. James, *A Descriptive Catalogue of the Manuscripts in the College Library of Gonville and Caius College, Cambridge*, Cambridge, 1907, 29–30.

137va–139ra 'Ptholomeus de compositione astrolabii [title in the margin, hand of the scribe]. Quoniam in mundi (!) spera motus perfectus et motus imperfectus — quia una eademque utrique convenit dicemus ad plenum. Explicit tractatus Ptholomei de compositione astrolabii universalis translatus a Roberto Cestrensi in civitate London<ie> de Arabico in Latinum.'
= **Pseudo-Ptolemy, *Liber de compositione universalis astrolabii* (B.2)**. No glosses.

Cambridge, Gonville and Caius College, 174 (95)

s. XIV (pp. 1–96).

Parchment (pp. 1–96) and paper, 558 pp. Composite MS made of eight parts (pp. 1–96, 97–394, 395–450, 451–486, 487–492, 493–542, 543–550, 551–558). The first part (pp. 1–96) is in two or three hands, one of which copied pp. 24–95.

Astronomy (pp. 1–96): Sacrobosco, *De sphaera* (1a–12b); *Theorica planetarum Gerardi* (13a–23b); Pseudo-Messahallah, *De compositione astrolabii* (24a–53b); **Ptolemaica (53b–55b)**; Johannes Peckham, *De spera* (55b–75b); Petrus de Sancto Audomaro, *Quadrans novus* (76a–92b); John of Saxony, almanac 1336–1380, canons ‘Cum animadverterem quamplurimos magistros et scholars...’ (93a–95a). Blank: 96. The second and third parts of the MS (pp. 97–450, 16th c.) contain texts of astronomy, computus and natural philosophy, and the remaining parts (pp. 451–558, 14th–16th c.) are concerned with non-scientific matters in Latin, English and French.

Bibl. M. R. James, *A Descriptive Catalogue of the Manuscripts in the College Library of Gonville and Caius College, Cambridge*, Cambridge, 1907, 196–99.

53b–55b ‘De accidentibus planetarum et diversitate motus ut sunt eclipses, retrogradationes, ...dationes (?), occultationes et apparitiones. <E>a vero que ex accidentibus accidunt et Lune et stellis necesse est scire que sunt eclipses Solis et Lune et retrogradatio planetarum — aut propinqui oppositioni Solis erunt tunc retrogradi.’
= Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti (C.1.1)*, second part (§ 27–54 in Carmody). No glosses.

Cambridge, Magdalene College, F.4.27

s. XIV^{ex}. **Or.:** England. **Prov.:** ‘Libellus Iohannis [erased word: Palmare] Londoni’ (f. 129r, lower margin); given by Simon Gunton (1609–1676), prebendary of Peterborough, to Magdalene College (f. VIv).

Paper, VI + 178 f., several contemporary hands. F. 174–175 are missing.

Geomancy: *Ars geomancie* (1r–66r); ‘Hec est geomancia indenea que vocatur filia astronomie...’ (72r–88v); ‘Incipit geomancia de triplicitatibus. Congregatio a se ipsa geminata procedens...’ (89r–107v); tables and notes of geomancy (108r–111v); ‘Si amissum recuperetur an non. Si quis aliquod amissum vis scire an recuperetur an non...’ (112r–117r); *Liber arenalis scientie* (120r–125v); ‘Fide pariter et ratione naturali coacti credimus et confiteamur... Explicit geomancia magis parata’ (128r–161v); **Ptolemaica (166ra–173vb)**. Blank: 1r–VIr, 66v–71v, 117v–119v, 126–127, 162–165, 176–178.

Bibl. M. R. James, *A Descriptive Catalogue of the Manuscripts in the College Library of Magdalene College, Cambridge*, Cambridge, 1909, 54–55 (no. 27).

- 166ra–173vb ‘Per hoc presens possunt cognosci exquisite presentia, preterita et futura in omni eo quod vult homo — sed querens finaliter sperat bonum. Capitulum decimum septime domus...’
 = **Pseudo-Ptolemy, *Archanum magni Dei de reductione geomancie ad orbem* (B.17)**, abrupt end due to missing folia 174–175. No glosses.

Cambridge, Pembroke College, 204

s. XV. **Or.:** England.

Parchment, I + 86 f., MS made of two parts, each copied by a single hand (f. 1–66 and 67–86). The end of the first part and the beginning of the second part are missing.

Natural philosophy and astrology: two tables of content (Iv), one medieval and the other from the 17th c.; Albertus Magnus, comm. on Aristotle’s *De caelo*, end gone (1r–66v); Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. Haly (67ra–68rb); **Ptolemaica (68rb–68vb)**; ‘Pronosticum Ypocratis quod dies mortis vel salutis ostendit. Saturni die qui in lectum ceciderit...’ (68vb–69rb); ‘Tractatus primus de creticis diebus secundum menses lunares. Ut dicit G<alenus> in tertio de creticis diebus Luna facit in nobis duas impressiones...’ (69rb–69vb); **Ptolemaica (69vb–70vb)**; ‘Epistola de discretione mortis. Aspice in occasionibus mortem inferentibus nato...’ (70vb–71rb); **Ptolemaica (71rb–73rb)**; ‘La...a (?) pro calculo. In die et hora Solis, Sole existente in Leonem prima...’ (73rb–73va); ‘Iudicium particulare de aeris mutatione in coniunctione Solis et Lune. Considera signum ascendens et eius naturam...’ (74ra–74rb); Messahallah, *Liber interpretationum*, ch. 3 (74rb–74va); ‘Cum aliquis in sompno pluvias, mare et flumina multociens videtur...’ (74va–74vb); ‘Capitulum locorum expertorum in verbis sapientum. Saturnus cum fuerit in domo sua in nativitate diurna significat quod natus erit...’ (74vb–76rb); Haly Abenragel, *De iudiciis astrorum*, VII.100 (76va–77ra); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen (78ra–83vb). Blank: Ir, 77v, 84–86. According to the medieval table of contents (Iv), the MS contained three items before f. 67: ‘Bacon de prolongacione vite. Antitodarus eiusdem. De graduacione medicinarum.’

Bibl. M. R. James, *A Descriptive Catalogue of the Manuscripts in the College Library of Pembroke College, Cambridge*, Cambridge, 1905, 188–89; Lemay 1999, I, 423–24; *CMML*, II, 106–08 (66.204).

- 68rb–68vb ‘Responsum Tholomei ad sciendum utrum nativitas fuit masculina aut feminina. Dicit Tholomeus: Huius rei causa maxime proprie — et similiter sunt descensiones opposite hiis, ut patet in figuris.’
 = ***Responsum Tholomei ad sciendum utrum nativitas fuit masculina aut feminina* (C.2.5)**. No glosses. A couple of short marginal notes by the scribe.
- 69vb–70vb ‘Propositio Tholomei de crisi. Albahaemi sane et certe sunt hore in quibus declarantur mutationes membrorum (!)... Expositio. Ptholomeus docuit nos in hoc verbo causas dierum determinabilium... (70rb) Sequitur figura Ptholomei quam Haly commentator suus describit sic. Quando et qualiter morbi acuti haberi debent suas determinationes sive ad bonum sive ad malum — aut

Scorpione aut in Aquario, tunc illa egritudo est deterior egritudinum isti homini et est dignior ut in eo moriatur quoniam est ex radice superiorum.’
= **Pseudo-Ptolemy, *Propositio Tholomei de crisi* (C.3.3)**. No glosses.

71rb–73rb ‘Cum itaque aliquis veniens querit qua morte debeat affici, diligenter octavi dominum aspice — in primo gradu Arietis evadet casum luminis. Explicit.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**, excerpts (selection of chapters). No glosses. A couple of short marginal notes by the scribe.

Cambridge, Trinity College, O.3.13 (1185)

s. XVI. **Or.:** ‘Roman hand’ (James).

Paper, V + 193 f., a single neat hand.

Astronomy and astrology: table of contents, added (Ir); Pseudo-Albertus Magnus, *Speculum astronomie* (1r–7v); ‘Canones tabularum coniunctionum et oppositionum atque eclipsium quas composuit Abraam Iudeus Salmanticensis feliciter incipiunt. Dixit Abraam filius Samuelis filii Abrae Zecuel quod honorabilius in scientia astronomie...’ (7v–10v); John of Saxony, *Canones*, attr. John of Ligneris (10v–21r); Bonetus or Jacob ben David Bonjorn [Jacob ben David Yom Tov], astronomical tables for Perpignan 1361, canons (21r–25v); astronomical tables (26r–56r); Sacrobosco, *De sphaera* (58r–64v); *Theorica planetarum Gerardi* (65r–74r); ‘Tabularum resolutarum canones feliciter expliciuntur. Quoniam tabularum Alfonsi laboriosa...’ (74v–80v); Alcabitus, *Introductorius* (80v–97v); Messahallah, *De revolutionibus annorum mundi* (98r–104r); Messahallah, *Liber receptionis* (104r–113r); Messahallah, *Liber interpretationum* (113v–116r); Hermann of Carinthia, *Liber imbrium* (116r–118r); Messahallah, *De cogitatione* (118r–118v); Messahallah, *Epistola de rebus eclipsium* (118v–120v); **Ptolemaica (120v)**; followed by Albohali, *De nativitatibus*, tr. Johannes Toletanus, last chapters ‘De amicis. Preterea aspice applicationem domini ascendentis cum domino 11...’ (120v–123r); Albumasar, *Flores* (123r–132v); Haly Embrani, *De electionibus horarum* (132v–146v); Zael, *Liber iudiciorum* (146v–183r, opening with *De interrogationibus*); Pseudo-John of Seville, *Epitome totius astrologie*, Book IV (183r–185v); *Capitula Almansoris* (185v–188v); Gergis, *De significatione septem planetarum in domibus* (188v–189v); diagrams (191r–193r). Blank: Iv–Vv (except drawing f. Vr and ex-libris Trinity College f. Vv), 56v–57v, 190r–190v.

Bibl. M. R. James, *The Western Manuscripts in the Library of Trinity College, Cambridge. A Descriptive Catalogue*, III, Cambridge, 1902, 195–97; Zambelli/Caroti 1977, 110–11; Paravicini Bagliani 2001, 14–15.

120v ‘Liber Alcoali (!) de nativitatibus feliciter incipitur. Cum proiectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate.’
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6)**. No glosses. The title ‘Liber Alcoali de nativitatibus’ is a mistake induced by the chapters that follow without a break, which belong to Albohali’s *Liber de nativitatibus* f. 120v–123r.

Cambridge, University Library, Ee 3.61 (1017)

s. XV^{ex} (most of the MS, including the first Ptolemaic section, was probably copied between 1481 and 1484, cf. f. 1r, 12v–15r, 188v and 189v–190r) with 16th-c. additions, including for the second Ptolemaic section. **Or.:** personal notebook of Lewis Caerleon (d. in or after 1495), who copied most of the MS and left his name ('Lewys/Lodowycus Kaerlyon/Caerlyon' or 'Lewys') on f. 2v, 14v, 15r, 47r, 74v, 81r, 107r, 142r, 142v, 144r, 145r, 146r, 151r and 189v. **Prov.:** 'William Carge his booke' (f. Iv).

Paper and parchment, I + 192 f. (modern foliation in upper right corner, different from the foliation used in *CMPL* and by Pedersen), one main hand (Lewis Caerleon), with intervention of several other hands in various places. At least one folio is missing before f. 48.

Astronomy, mathematics and astrology: Lewis Caerleon, calculations for the solar eclipse of 17 May 1482, with horoscope (1r); table of contents (2v); Lewis Caerleon (?), 'Circa compositionem tabularum elevationum signorum in circulo directo...' (3r–7v); added note 'Anno Christi currente 1702 erit coniunctio Saturni et Iovis in principio Arietis...' (7v); Richard of Wallingford, *Tractatus rectanguli* (8r–12r); Lewis Caerleon, calculations and notes on the solar eclipse of 28 May 1481 (12v–15v); comm. on canons Cb of the Toledan tables 'Incipit opusculum doctoris subtilis super aliquos canones Arzachelis. Quoniam cuiusque actionis etc.' (16r–17v); John of Ligneris, *Algorismus de minutiis* (26v–29r); *algorismus* 'Ars operandi per probas in speciebus algorismi...' (30r–31r); 'Incipit prohemium in algorismum magistri Iohannis Kyllingworth. Oblivioni raro traduntur...' (31v–42v); **Ptolemaica (43r–45r)**; added notes on astronomical instruments by two different hands (45v–46r and 46v); ascension table for latitude 52° (47r); Alcabitius, *Introductorius*, I.12–II.40, beginning gone and abrupt end (48r–54v); added notes: Menelaus Theorem 'Kata coniuncta potest haberi per numerum...' (54v–55r) and **Ptolemaica (55r–55v)**; John Holbroke, astronomical tables with canons (56r–73v), except added 'Tabula aequationis Solis inventa in anno Christi 1220...' (70r–70v); table 'Trutina Hermetis ostendens moram nati in utero...' with canon (74r–74v); John of Genoa, *Investigatio eclipsis Solis anno Christi 1337* (75r–81r), with notes and calculations by Lewis Caerleon (81r–81v); 'Canon magistri Iohanni de Lineriis de calculatione eclipsium excerptus de canonibus suis...' (82r–86v); John of Ligneris, *Canones primi mobilis* (86v–96r); Simon Bredon, *De arithmetica* (96v–105v); Lewis Caerleon, 'Nota canones sequentes pro componendo tabularum angulorum pro eclipsibus' (106r–106v); Lewis Caerleon, 'Exemplum componendi tabulam angulorum et diversitatis aspectus ad eclipses per calculationem' (107r–107v), with table (108r); 'Incipit prologus in tabulas illustrissimi principis et nobilissimi domini ducis Gloucestrie', with tables of aspects (108r–120v); tables of squares and cubes (125r–141v); notes on the size of the Sun and the Moon and on eclipses (142r–142v); 'De compositione tabularum diversitatis aspectus ~~sine astrolabio~~', with tables for the latitude of Oxford (143r–145v); Lewis Caerleon, 'Exemplum de compositione tabularum eclipsium secundum canones antepositos...', with tables (146r–152r); other canons and tables pertaining to eclipses (152v–158v); judgement on the nativity of Henry VI (159r–175v); 'Proposito circulo quadratum equale describere...' (176r–176v); Campanus of Novara, *De quadratura circuli*, attr. Franco of Liège (176v–177v); John of Saxony, comm. on John of Ligneris's *Canones primi mobilis* 'Quia plures astrologorum diversos libros fecerunt...' (178r–181r); five added horoscopes for 1658–1659 (183r–184r); unfinished astronomical diagram (188r); Lewis

Caerleon, astronomical calculations for 1484 (188v); Lewis Caerleon, astronomical calculations for 1482 (189v–190r); drawings of a navicula (191v–192r). Blank: Ir, 1v–2r, 18r–26r, 29v, 47v, 121r–124v, 181v–182v, 184v–187v, 189r, 190v–191r, 192v.

Bibl. *CMPL*, II, 114–20; P. Kibre, ‘Lewis of Caerleon, Doctor of Medicine, Astronomer, and Mathematician (d. 1494?)’, *Isis* 43 (1952), 100–08; Clagett 1964–1984, I, xxiii; North 1976, III, 217–20; Pedersen 2002, I, 99–100; Zepeda 2018, 78–79; L. Miolo, ‘A Bibliophile Performing Eclipse Computations: Lewis Caerleon and His Notebook’, in *Manuscripts and Performances in Religions, Arts, and Sciences*, eds A. Brita, J. Karolewski, M. Husson, L. Miolo, H. Wimmer, Turnhout, 2024, 117–85: 166–85 and *passim*. On Lewis Caerleon, see also H. M. Carey, ‘Henry VII’s Book of Astrology and the Tudor Renaissance’, *Renaissance Quarterly* 65 (2012) 661–710: 694–96; L. Miolo, S. Zieme, ‘Lewis Caerleon and the Equation of Time: Tabular Astronomical Practices in Late Fifteenth-Century England’, *AHES* 78 (2024), 183–243.

43r–45r ‘Expositio m<agistri> Symonis super quedam capitula Almagesti Ptholomei. Nunc supersest ostendere quanta sit maxima declinatio ecliptice ab equinoctiali — si in eodem puncto ergo et alie due concurrent...’
= **Simon Bredon**, *Commentum super Almagesti (C.1.8)*, excerpt I.12–I.20 ending mid-sentence in the middle of f. 45r. No glosses.

55r–55v ‘Libro 5 parvi Almagesti propositione 18. Elongationem Lune a centro terre cognosces iuxta terminos — et illud quoque rarissime eveniet.’
= *Almagesti minor (C.1.4)*, excerpts from V.19, 21 and 25 (not 18, 20 and 24, as indicated in the text). These excerpts follow a short paraphrase (4 lines) of *Almagest*, V.17 ‘Almagesti libro 5...’. No glosses.

Cambridge, University Library, Gg 6.3 (1572)

s. XIV (probably written in various stages from the beginning to the middle, even to the second half of the 14th c., cf. tables from 1310 onwards f. 37r–40r and from 1311 onwards f. 105r–107r; almanac 1324–1343 f. 193r–200r; planetary tables 1348 f. 214r–217r; the years 1349 and 1350 mentioned f. 213v; the equatorium text f. 217v–220v was composed c. 1350). **Or.:** England, most probably Oxford (Norwich cathedral acc. Greatrex, but this is not substantiated). **Prov.:** Anthony Rous, 16th c. (f. 2r); given to the University of Cambridge by W. Crow in 1656.

Parchment, 382 f., several careless hands. Many folia are bound in disorder and others have suffered water-damage.

Astronomy and astrology: on plants ‘Circa instans negotium de simplicibus medicinis...’ (1ra–1rb); astronomical tables for Oxford (1v–44v), including John Maudith’s ascension tables dated 1310 (37r–40r); Richard of Wallingford, *Tractatus de quatuor tabulis*, attr. John Maudith (45r–48v); star table (48v); canons for solar eclipses ‘Hic incipit canon eclipsis Solis. Si volueris querere tempus eclipsis Solis...’ (48v–54v); Richard of Wallingford, *Tractatus de sectore* (54v–80v and 285r–287r); canons of Toledan tables (91r–103v); astrology ‘Planeta levis est qui applicat et vim donat...’ (103v–105r); syzygy tables from 1311, some for Paris (105r–107r); ‘Incipit canon de eclipsi Lune. Ad investigandum eclipsim Lune...’ (107v–108r);

astrological compilation partly based on the *Alchandreana* ‘De domino anni extrahendo. Oportet te primum scire dominum anni...’ (108r–123v); Toledan-type tables, with canons (124r–132r); syzygy tables for Novara, with canons mentioning Paris and Oxford ‘Magister Campanus inter cetera opera sua astronomie...’ (132va–133va); Robert Grosseteste (?), *De impressionibus aeris* (134r–138v); Roger of Hereford, *De quatuor partibus iudiciorum astronomie* (139r–146v); ‘Nota: Si multiplicare volueris quemcumque numerum...’ (147r–147v); Roger of Hereford, *Liber de tribus generalibus iudiciis astronomie* (147v–153r); ‘De declinatione stelle ab equinoxiali inveniendō et eius gradum cum quo celum mediat. Si ecliptica intercipiatur...’ (153v–154r); Zael, *Liber iudiciorum* (154v–192v); Prophatius Judeus, *Almanach*, for the years 1324–1343 (193r–199v); astronomical notes, added (200r); Robert Grosseteste, *De sphaera* (200v–205v); *Theorica planetarum Gerardi* (206r–212r); Richard of Wallingford, *Tractatus Albionis*, three tables from IV.8–11, with notes (212r–212v); **Ptolemaica (213r)**; astrological and astronomical notes (213r–213v); planetary tables 1348 (214r–217r); equatorium ‘Quia nobilissima scientia astronomie...’ different from John of Ligner’s treatise bearing the same incipit (217v–220v, ed. Falk); William Rede, *Theorica planetarum* ‘Ut plenius intellegantur imagines...’ (221r–222v); ‘Incipiunt quedam notabilia experimenta theoricarum predictarum’ (223r–226v); astronomical tables (226v–230v); Campanus of Novara, *De quadratura circuli* (231r–232v); ‘Hec ars debet (?) artem multiplicandi...’ (233r–233v); ‘Ad theoricę planetarum intelligenciā... Explicit theorica planetarum m<agistri> Ioh<annis> Liners’ (233v–260r); ‘Incipiunt demonstrationes questionum theoricę planetarum per modum geometricum date a Petro de Mistina (?) scribente easdem demonstrationes magistro Iohanni de Iaduno...’ (260r–270r); on eclipses ‘Si quantitatem diametri umbre...’ (271ra–272vb); John Maudith (?), *Ars et operatio novi quadranti* (273r–284r); ‘Corporalis mundi machine consistit in 2, scilicet in natura celesti et in natura elementari...’ (284va–284vb, a text dealing with celestial distances, not a fragment of Richard of Wallingford’s *Declarationes supra kalendarium regine*, as in North 1976, II, 373–74); Richard of Wallingford, *Tractatus de sectore* (285r–287r, see f. 54v–80v above); Euclid, *Elementa*, ed. Campanus of Novara, beginning of Book I (287v–288r); Richard of Wallingford, *Tractatus Albionis*, incomplete and in disorder (288v–303v); ‘Incipit algorismus in novis numeris. Quia autem superius dictum est de numeris quadratis...’ (309ra–310vb); ‘Liber quantitatum mensurandum per numerum. Quia cuiuslibet quantitatis notitia...’ (310vb–315vb); ‘De regulis generalibus algorismi ad solvendum omnes questiones propositas...’ (315vb–319va); ‘Iste tractatus vocatur tractatus arismetice...’ (319vb–321vb); Petrus de Sancto Audomaro, *Tractatus de semissis*, attr. Prophatius Judeus (322ra–330rb); ‘De cati. Quod cata coniuncta potest haberi...’ (330va); Toledan tables (332v–337r); conjunction tables (337v–352r); notes ‘Si vis ut socius qui ludit totum...’ (352v); Toledan tables (358r–359v); canons for eclipses (360va–366r), with tables (366v–371r); ‘Nota de equatione dierum secundum Tholomeum in Almagesti l<ibro> 3 c<apitulo> 10’ (371v–372v); table of sines (373r–375v); Richard of Wallingford, *Tractatus Albionis*, table from IV.13 (376r–376v); Jordanus de Nemore, *De numeris datis*, III–IV.19 (377r–381v). Blank: 81r–90v, 270v, 304r–308v, 331r–332r, 353r–357v, 360r, 382.

Bibl. CMPL, III, 214–15; North 1976, I, 16–18, and II, 39–41, 129, 373–74, 381–83 and 385; Hughes 1981, 24–25; Pedersen 1983–1984, II, 655–56 and 735; Panti 2001, 217; J. Greatrex, ‘Horoscopes and Healing at Norwich Cathedral Priory in the Later Middle Ages’,

in *The Church and Learning in Later Medieval Society: Essays in Honour of R. B. Dobson. Proceedings of the 1999 Harlaxton Symposium*, eds C. M. Barron, J. Stratford, Donington, 2002, 170–77: 172–73; Pedersen 2002, I, 100–01; Juste 2007, 307–08; S. Falk, ‘A Merton College Equatorium: Text, Translation, Commentary’, *SCLAMVS* 17 (2016), 121–59: 130–31.

213r ‘Opus imaginum secundum consilium Tholomei. Cum volueris ligare latrones ne intrent domum, facies ymaginem viri ex ere cum ascendente prima facie Arietis et sic dices — quin frangatur urna eius.’
 = **Pseudo-Ptolemy**, *De imaginibus super facies signorum* (B.14),
 excerpts (19 lines). No glosses.

Cambridge, University Library, Ii 1.13 (1705)

s. XIV¹ (the date 1279, given in the colophon of the first Ptolemaic section, is in all likelihood the date of the exemplar, for this section is written in the hand that copied most of the MS, including Richard of Wallingford’s *Quadripartitum* (f. 64r–77r), a work composed not long before 1326). **Or.:** England. This MS seems to be the unique copy of the works of Walter Odington, monk of Evesham, contained on f. 44v–56v and 160r–181r (on these works, see North). **Prov.:** ‘Possessor mei Anthonius Rous’ (f. 2r, 16th c.); ‘Symond Ockey off Hyngham’ (f. 202r, 17th c.); W. Crow, of Caius College, who gave the MS to the University of Cambridge in 1656 (North).

Parchment, 204 f. (various competing foliations — I use what seems to be the latest one, which differs from the one used by *CMPL*), one main hand, including for the first Ptolemaic section, with intervention of several contemporary hands in various places, including for the second Ptolemaic section. All hands are sloppy and difficult to read.

Astronomy, astrology, computus, mathematics, optics and divination: chaotic astronomical and astrological notes (1r–9v), except for large drawings of two hands for chiromancy (8v–9r); Alexander of Villedieu, *Carmen de algorismo* (10ra–12rb), with comm. (12v–13r); *algorismus* ‘Quoniam cuiuslibet quantitatis notitia ex sui relatione ad aliam...’ (14r–17r); ‘Incipiunt cautele algorismi. Si tu divinare velis quot denarios socius tuus habet...’ (17r); table of contents of the MS (17r); table of contents of a different scientific MS (17v); Sacrobosco, *Computus* (18r–25r); verses on the 12 months (25v); ‘Regule algorismi ad sovendas questiones. Sunt autem quedam subtilia universis numerandi questionibus...’ (26r–26v); ‘Liber quantitatum mensurandum per numeros. Quia cuiuslibet quantitatis notitia ex numerorum relatione... Explicit ars mensurandi omnes quantitates’ (27r–29v); ‘Compositio astrorum speculi generalis. Ad laudem et honorem summi Dei nostri et ad presens...’ (29v–31v); Sacrobosco, *De sphaera* (32r–36r); Robert Grosseteste, *De sphaera* (36v–39v); table for computing the zodiacal position of the Moon with instructions (40r); ‘Incipit practica geometrie. Geometrie due sunt partes formales...’ (41r–42v); Pseudo-Euclid, *De speculis* (43r–44r); Walter Odington, *De multiplicatione specierum in visu secundum omnem modum* (44v–51r); Walter Odington, *Ars metrica* (51v–55v); Walter Odington, *Liber quintus geometrie* (55v–56v); Peter Peregrinus of Maricourt, *De magnete* (57r–58v); *Theorica planetarum Gerardi* ‘correcta secundum Lincolniensem [Robert Grosseteste]’ (59r–61v); Jafar, *Liber imbrum* (61v–63r); notes (63v);

Richard of Wallingford, *Quadripartitum* (64r–77r); Ibn Mu‘adh, *De crepusculis* (77v–79v); ‘Si autem de temporis mutatione...’ (79v); canons of astronomical tables ‘Incipiunt canones fratris Rogeri de Cocum. Quelibet pars aliquota totius fractio...’ (80r–84v); Pseudo-Messahallah, *De compositione astrolabii* (84v–94v); ‘Investigantibus chilendri compositionem, que dicitur elogui viatorum...’ (94v–96r); astronomical table (96v); ‘Ad cognitionem mutationis aeris vide Centilogi 35, 56, 62. Item considera...’ (97r–99v); Alfraganus, *De scientia astrorum*, tr. John of Seville (100r–109v); **Ptolemaica (109v–120v)**; Albumasar, *Flores* (121r–126v); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam*, without the beginning (126v–128r); Messahallah, *Epistola de rebus eclipsium* (128r–129r); *Astronomia Ypocratis* (129r–129v); ‘Notandum quod numeorum proportio...’ (130v–134r); astronomical notes (134v–135v); astrological compilation ‘De coniunctionibus planetarum. Quando coniugitur Venus cum Marte in anni revolutione...’ (136r–159v); Walter Odington, almanac 1301–(160r–170r); Walter Odington, astronomical calendar (170v–176r); Walter Odington, other astronomical tables, with canons and notes (176v–181r), including a star table (179v); Walter Odington, *De etate mundi* (181v–184r); ‘Hec Albertus. Deus utitur corporibus celestibus...’ (184v–186v); ‘Fortiores questiones in arte geomancie sunt ab ortu Solis...’ (187r–200v); ‘Luna prima: Hec dies ad omnia agenda utilis est...’ (200r–200v); **Ptolemaica (200v)**; star table (201r); Pseudo-Aristotle, *De physiognomonia libellus* (201r–201v); ‘Si quis infirmatur Luna existente in Leone vel Scorpione...’ (201v); onomancy: ‘Ad signa inveniendia divide per 28...’ (201v–202r) and calculus of the victorious and the vanquished (202r); circular diagram: 12 signs, degrees, stars etc. (202v); notes (203r–204v). Blank: 2r (except for owner’s note), 13v, 40v, 130r (except for empty table).

Bibl. *CMPL*, III, 321–27; Björnbo/Vogl 1912, 131–32; North 1976, II, 32 and 34–35, and III, 240 and 246–52; Lemay 1999, I, 287–90.

109v–120v ‘Incipit Centilogium Ptho<lome>i cum commento Haly. <D>ixit Ptho<lome>us: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in Quadripartito in hoc seculo... <S>cientia stellarum ex te et illis est... Quod dixit Ptho<lome>us, ex te et illis est, quod qui res futuras scire desiderat... (110r) Dixit Ptho<lome>us: Mundanorum corporum mutatio ad hoc et ad illud corporum supracelestium... Doctrina stellarum ex te ex illis est. Nec est doctrina in ea ut propter hanc — et ego Deum precor ut diligat te. Et perfecta est huius libri translatio 17 die mensis Marcii, 12 die mensis Gumedii secundi anno Arabum 532. Explicit Centilogium Ptholomei cum commento Haly, perfectum die die (!) Veneris secundo mensis Augusti anno domini M^oCC^o79.’

= Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1), with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). No glosses.

200v ‘Ptolomeus dicit quod stelle cum caudis sunt octo — significat mortalitatem multam et decollationem.’

= Pseudo-Ptolemy, *De cometis* (B.4). No glosses.

Cambridge, University Library, Ii 3.3 (1767)

s. XIII^{ex}–XIVⁱⁿ (in or after 1299, cf. f. 57va: ‘Tabula ad sciendum in quo loco sit Sol in iniciis mensium accepta ab almanac anni 1299ⁱ’, and f. 283r–283v; the date of 1276, given on f. 140vb, would rather be that of the exemplar: ‘Explicit 1276^o, 8^a die Decembris, scilicet Martis, ante ortum Solis, hora Saturni, sub horoscopo 12 gradus Scorpii, cum laude Dei, amen’; a later date is also confirmed by Petrus de Dacia’s *Kalendarium* (f. 4r–10r), composed c. 1293. **Or.:** France (Paris?). **Prov.:** Roger of Nottingham (d. after 1358) (cf. f. 2v: ‘Ex collatione fratris Rogeri de Nottingham magistri pro anima domine Eve de Tateshale et pro animabus aliorum de quorum elemosinis hunc librum procuravit’); Cambridge, University Library, by 1600.

Parchment, I + 283 f., a single hand (except for f. 278r–282v), richly decorated initials.

Astronomy and astrology: table of contents, 14th c. (2r); Petrus de Dacia, *Kalendarium* (4ra–10r); *Tabula Gerlandi* (10v–12r); Balduinus de Mardochio or Marrochio, *Compotus manualis* (12r–19r); Sacrobosco, *Algorismus* (20r–25r); Sacrobosco, *De sphaera* (25r–35v); Sacrobosco, *Computus* (36r–55v); Robertus Anglicus, *Quadrans vetus* (56r–60v); Pseudo-Messahallah, *De compositione astrolabii* (61r–79r); *Theorica planetarum Gerardi* (79v–86r); Pseudo-Thebit Bencora, *De motu octave spere* (86r–89r); **Ptolemaica (90r–93r)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (93r–94r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (94v–96r); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (96r–116v); canons of Toledan tables (117ra–140vb); Toledan tables (141r–216v); **Ptolemaica (220ra–239va and 240ra–276va)**; notes on planets and signs ‘Saturnus: Albumasar, eius significatio est splenis et est nature terre...’ (278ra–282va, added by another hand); Peter of Limoges, judgement on the comet of 1299 (283ra–283va). Blank: Ir–3v (except a few added notes), 19v, 89v, 217r–219v, 277r–277v.

Bibl. *CMPL*, III, 404–06; L. Thorndike, ‘Peter of Limoges on the Comet of 1299’, *Isis* 36 (1945), 3–6; 4; L. Thorndike, *The Sphere of Sacrobosco and Its Commentators*, Chicago, 1949, 63–64; Pedersen 1983–1984, I, 221; P. R. Robinson, *Catalogue of Dated and Datable Manuscripts c. 737–1600 in Cambridge Libraries*, I, Cambridge, 1988, 34 (no. 56); Lemay 1999, I, 236–37; Pedersen 2002, I, 102–03; P. Binski, P. Zutshi, S. Panayotova, *Western Illuminated Manuscripts: A Catalogue of the Collection in Cambridge University Library*, Cambridge, 2011, 290–91 (no. 316); Lohr 2025, 89*.

90r–93r ‘Incipit liber Thebit de expositionibus eorum que legatur ante (?) Almagesti. Equator est circulus maior qui describitur super duos polos mundi — aut propinqui oppositioni Solis erunt, erunt retrogradi.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti (C.1.1)***. No glosses.

220ra–239va ‘Incipit liber verborum Ptholomei cum commento Hali. Dixit Ptholomeus: Iam scripsi tibi, Ihesure, libros de hoc quod operantur stelle in hoc seculo... Verbum primum. Sciencia stellarum ex te et illis est... (220rb) Quod dixit Ptholomeus, ex te et illis est, significat quod qui res futuras — et ego Deum deprecor ut te dirigat. Perfecta est huius libri translatio tercio die mensis

Marci, secundo die mensis Lumedii secundi anno Arabum tricesimo. Explicit Centilogium Ptholomei cum commento Hali.'

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**. No glosses.

240ra–276va 'Incipit liber 4 (?) partium Ptholomei... (?). Rerum, Ihesure, in quibus est pronosticabilis scientie stellarum perfectio magnas et precipue duas esse deprehendimus — hoc in loco huic libro Deo volente finem imponere non incongruum existimamus. Explicit liber 4 partium Ptholomei in iudicandi discretione per stellas de futuris in hoc mundo constitutionis et destructionis contingentibus Deo gratias. Et perfecta est eius translatio de Arabico in Latinum Aubertino (!) Platone, cui Deus parcat, die Veneris hora tertia 20^a die mensis Octobris, anno domini 1138^o, decima quinta die mensis Saphar anno Arabum 533^o in civitate Barchinona. Et Deus nos custodiat et actus nostros dirigat. Amen. Explicit liber Ptholomei 4 partium dictus arabice Alarba.'

= **Ptolemy, *Quadripartitum***, tr. **Plato of Tivoli (A.2.1)**. I, 240ra–248vb; II, 248vb–257va; III, 257va–269va; IV, 269va–276va. No glosses.

Cambridge, University Library, Kk 1.1 (1935)

s. XIII¹ (probably before 1234). **Or.:** England (Winchester?). The MS has been annotated in various places by a contemporary scholar, who mentions the year 1234 ('Anno domini 1234^e, quarto kal. Decembris...', f. 125r), an eclipse seen in Winchester ('Locus eclipsis pridie ydus... ad meridiem civitatis Wincen.', f. 142v), the solar eclipse of 3 August 1236 ('Anno domini 1236 eclipsis Solis ante meridiem', f. 143r) and the summer solstice of 1238 ('Anno domini 1238 solsticium 17 kal. Iulii...', f. 143r). **Prov.:** Richard Holdsworth (d. 1649), Master of Emmanuel College, Cambridge.

Parchment, 239 f., several similar hands.

Astrology and astronomy mainly: table of contents, 15th c. (1v); Albumasar, *Introductorium maius*, tr. John of Seville (2ra–61ra); **Ptolemaica (62ra–96rb and 96rb–96va)**; Pseudo-Aristotle, *Physiognomia* (97ra–98ra); Daniel of Morley, *Liber de naturis inferiorum et superiorum* (98ra–105ra); notes on the obliquity of the ecliptic 'Si esset centrum solaris circuli in medio celi...' (105ra–105vb); Pseudo-Messahallah, *De compositione astrolabii*, first part on construction chs 1–16 (105vb–109va); Jordanus de Nemore, *De plana spera* (109va–110vb); Jordanus de Nemore (?), *De proportionibus* (111r–112r); Ibn al-Šaffār, *De opere astrolabii*, tr. John of Seville (112ra–117vb); canons of Toledan tables (118ra–119rb); Thebit Bencora, *De imaginibus*, added 15th c. (119v–120v); Thebit Bencora, *Liber prestigiorum*, fragment, added 15th c. (123v); faint notes dealing at least partly with theology (121v–123r and 124r); canons of Toledan tables (125r–137r); 'Ars inveniendi eclipsim Lune. Scias quod Luna non obscurabitur...' (137v–139r); 'Ars communis ad sciendum que sit hora noctis et punctus hore per stellas fixas...' (139v–142r); calendar (142v–143v); Toledan tables (144v–172v); Pseudo-Thebit Bencora, *De motu octave spera* (173r–174v); canons of Toledan tables (174v); Toledan

tables (175r–176v); Robert Grosseteste, *Compotus* (178r–191v); canons of London tables (192r–203v); magical formulas, added 15th c. (203v); *Theorica planetarum* ‘Quilibet trium planetarum altiorum...’ (204r–210v); ‘Tres circulos in astrolapsu descriptos...’ (210v–211v); Jordanus de Nemore, *Elementa super demonstrationem ponderum*, beginning only, due to missing pages (211v); Alfraganus, *De scientia astrorum*, tr. John of Seville (212r–222v); Roger of Hereford, *Computus* (222v–239r); faint note on arithmetic (239v). Blank: 1r, 61v, 121r, 124v, 144r, 177r–177v.

Bibl. *CMPL*, III, 547–50; Lemay 1995–1996, IV, 56–63; Pedersen 2002, I, 103–04; P. Binski, P. Zutshi, S. Panayotova, *Western Illuminated Manuscripts: A Catalogue of the Collection in Cambridge University Library*, Cambridge, 2011, 96–97 (no. 104); A. Lohr, *Opera de computo saeculi duodecimi*, Turnhout, 2015, XLI–XLII; Lohr/Nothhaft 2019, 27–28; Bohak/Burnett 2021, 93.

62ra–96rb ‘Rerum, Yesure, in quibus est pronosticabilis scientie stellarum profectio magnas et precipuas esse perpendimus (?) — hoc in loco huic libro finem imponere non incongruum extimamus.’
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 62ra–69va; II, 69va–78ra; III, 78ra–89rb; IV, 89rb–96rb. No glosses.

96rb–96va ‘Cum proiectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate.’
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6)**. No glosses.

Cambridge, University Library, Kk 4.7 (2022)

s. XIV² (before 1380; the MS is wrongly dated to the 15th c. in *A Catalogue of the Manuscripts*). **Or.:** Paris. **Prov.:** Paris, Librairie du Louvre by 1380 and at least until 1424; Roger Marchall (d. 1477); Cambridge, University Library, by 1557.

Parchment, 126 f. (new foliation 1–91 and 96–132), two main hands (f. 4r–122v and 124r–131v). Deluxe MS richly decorated on f. 4r. Painted initials, the first of which (f. 4r) was cut off, affecting the text on f. 4v. At least two folia are missing before f. 96.

Astrology: table of contents, medieval hand (3v); ***Ptolemaica* (4ra–91rb)**; Giles of Lessines, *De essentia, motu et significatione cometarum*, beginning gone (96ra–101ra); *Liber de significatione cometarum* (101rb–107ra); Zael, *Fatidica* (107rb–121va); Jafar, *Liber imbrium*, excerpt ‘Experta cognitio imbrium et ventorum. Ventorum cognitio ex pluviarum...’ (121vb); Arabic-Latin glossary of 22 astronomical/astrological terms (122ra); Sem filius Haym, *Capitulum in narratione Saturni quid accadat in mundo* (122ra–122va); Arabic-Latin glossary of 80 astronomical/astrological terms, added by another hand (122ra); ***Ptolemaica* (124ra–131va)**. Blank: 3r, 91v, 123v, 132. F. 1r–2v contain the fragment of a text of canon law, foreign to the present MS.

Bibl. *CMPL*, III, 647–48; Delisle 1868–1881, III, 146 (no. 687); Lemay 1999, I, 290–97; P. Binski, P. Zutshi, S. Panayotova, *Western Illuminated Manuscripts: A Catalogue of the Collection in Cambridge University Library*, Cambridge, 2011, 302–03 (no. 329).

4ra–91rb

‘Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (4rb) Verba que dixit sapientissimus Ptho<lome>us Pheludiani in arte iudiciorum... (5ra) Capitulum primum primi tractatus libri 4 parcium Ptholomei. Res, Misori, quibus perficiuntur pronosticaciones accepte de astronomia maiores et notabiliores sunt due — (85va) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit. Benedictus sit Deus gloriosus et sublimis et Deus eum dirigat qui scripsit. Amen. (85vb) Volo in hoc loco dare exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, in prima est nativitas mea — (88ra) et Deus te dirigat in viam rectam. Volui autem probare utrum iste actor (!) iudicaret secundum nonam speram vel secundum octavam et inveni per loca planetarum que ponit in figura sue nativitatis quod ipsa fuit annis Christi perfectis 986, 10 mensibus, 15 die Ianuarii, qua die equavi planetas secundum tabulas Mach<linienses> et inveni sic. (88rb) Quia secundum Ptho<lomeu>m in secunda parte Quadripartiti, capitulis primo et quinto, inter 5 necessaria ad perfectum iudicium astronomicum, secundum est scire locus in quo continget accidens — (91ra) et Macolia ipse partes de Cartor et sui termini’ (followed by chapter index).

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).**

Translator’s preface, 4ra–4rb; Haly’s preface, 4rb–5ra; I, 5ra–24vb; II, 24vb–43vb; III, 43vb–69rb; IV, 69rb–85va; Haly’s appendix, 85vb–88ra; additional note, 88ra–88rb; Alfonsus Dyonisii of Lisbon’s addition, 88rb–91ra; chapter index, 91ra–91rb. Glosses by the scribe, generally short but sometimes substantial (e.g. 28r–29r, where the scribe supplied a long section missing in ch. II.3 by its corresponding section from Plato of Tivoli’s translation). A few glosses by a later hand. Circular horoscopes, 85vb, 86vb and 87rb. The text does not include the preface of Hieronymus Salius Fanventinus that accompanies the edition Venice 1493, as claimed in *CMPL*.

124ra–131va

‘Centilogium Ptolomei [title in upper margin, hand of the scribe]. Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et illis est. Astrologus non debet dicere specialiter sed universaliter... Quod dixit Ptholomeus, ex te et illis est, significat quod qui res futuras desiderat scire... De alia translatione. Mundanorum mutatio ad hoc et ad illud corporum supracelestium... Doctrina stellarum ex te que ex illis est. Nec est doctrina in eis ut propheres (?) formam — et ego Deum precor ut te dilligat. Et perfecta est huius libri translatio 17 die mensis Martii et 2 die mensis Gumedi secundi anno Arabum 532.’

= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). Substantial glosses by the scribe, including the complete text of Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) as a gloss to v. 51 on f. 128ra–128rb (see below).

- 128ra–128rb ‘Locus Lune: Dixerunt Ptho<lome>us et Hermes quod Lune locus hora — et hoc expertus fuit multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as a gloss to v. 51 of the *Centiloquium* above.
- 131va ‘Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Amen.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Cambridge, University Library, Mm 2.18 (2313)

s. XIV². **Or.:** MS commissioned by Geoffrey of Wighton (fl. 1358–1365), Franciscan friar at the Oxford convent (cf. f. Iv: ‘Iste liber est fratris Galfridi de Wyghtone quem fecit scribi de elemosinis amicorum suorum’). **Prov.:** Sir Thomas Knyvett (d. 1618); John Moore (d. 1714); George I, who presented the MS to the University Library, Cambridge, in 1715.

Parchment, I + 344 f. (foliation omits 216, 242–244, 249–250, 275 and 330–331), a single neat hand, painted initials at beginning of each section, decorated initials.

Astronomy, mathematics and various: table of contents, medieval (Iv); ***Ptolemaica* (1ra–49vb)**; Abbacus [Ibn ‘Abd al-Bāqī], *Liber Iudei super decimum Euclidis* (49vb–65rb); Algorismi [al-Khwārizmī], *Algebra* (65rb–69vb); Alubater [Abū Bakr], *Liber mensurationum* (69vb–76vb); *Liber Saydi Abuothmi* (76vb–77ra); *Liber Aderameti* (77ra–77vb); *Liber augmenti et diminutionis* (77vb–82va); Solinus, *De mirabilibus mundi* (83ra–103rb); *Ethicus philosophus* (103ra–115vb); Frontinus, *Strategemata* (115vb–131vb); Clement of Lanthony, *Sententie ex patribus* (131vb–133vb); Macrobius, *Saturnalia*, excerpts (133vb–145va); Gerald of Wales, *De mirabilibus*, excerpts 145va–147vb); *De vita S. Zozime* (147vb–148ra); Martial, *Epigrams* (148ra–149va); John of Salisbury, *Metalogicon*, excerpts (149va–165rb), and *Entheticus* (165rb–169ra); Ovid, *Metamorphoses*, summary (169ra–220ra); comm. on Ovid’s *Epistolarum* (220ra–224va); Valerius Maximus, *Facta et dicta* (224va–268rb); Boethius, *De consolazione Philosophiae*, with comm. Nicolaus Trivet (268va–344vb).

Bibl. CMPL, IV, 132–38; B. B. Hughes, ‘Gerard of Cremona’s Translation of al-Khwārizmī’s *al-Jabr*: A Critical Edition’, *Mediaeval Studies* 48 (1986), 211–63; 221–22; CBCM, I, 47; P. Binski, P. Zutshi, *Western Illuminated Manuscripts: A Catalogue of the Collection in Cambridge University Library*, Cambridge, 2011, 161–62 (no. 170); M. Moyon, *La géométrie de la mesure dans les traductions arabo-latines médiévales*, Turnhout, 2017, 132–33; M. Moyon, *Le Liber augmenti et diminutionis. Contribution à l’histoire des mathématiques médiévales*, Stuttgart, 2023, 4.

- 1ra–49vb ‘Liber Ieber de astrologia [title in upper margin, hand of the scribe]. Sciencia species habet quarum melior post scienciam — sunt digniores ut evanescent et destruantur. Completa est eius declaratio. Completus est tractatus nonus et est ultimus libri. Hunc librum transtulit in Toletu magister Girardus Cremonensis de Arabico in Latinum.’
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1ra–1va; I, 1va–6vb; II, 6vb–13rb; III, 13rb–15vb; IV, 15vb–20vb; V, 20vb–28vb; VI, 28vb–35vb; VII, 35vb–43ra; VIII, 43ra–45va; IX, 45va–49vb. A few marginal notes by the scribe.

Cambridge, University Library, Mm 4.43 (2391)

s. XIVⁱⁿ. **Or.:** probably Paris. **Prov.:** John of Murs, who glossed and foliated the MS, and added the table of contents f. IIv; Julien of Murs (John's brother), who brought the MS to England in 1356; Richard Holdsworth, Master of Emmanuel College (d. 1649), who bequeathed his books to the University Library.

Parchment, II + 317 f. (with f. 198–199, 274–281 and 308–315 gone), a single hand (except for additions f. 316rb–317r), deluxe MS with a miniature f. 1r and numerous decorated initials. The five folia after f. 249 are wrongly numbered 245–249, so that these folio numbers are used twice. In what follows, the duplicates are numbered f. 249^{bis}–249⁶.

Astrology: table of contents added by John of Murs (IIv); Haly Abenragel, *De iudiciis astrorum* (1ra–217rb); Haly Embrani, *De electionibus horarum*, Book II (217va–224va); **Ptolemaica (225ra–249⁵va and 249⁵vb–249⁶vb)**; Zael, *Liber iudiciorum* (249⁶vb–271va, *Introductorium*, *Quinquaginta precepta* and *De interrogationibus* incomplete); table for computing the zodiacal position of the Moon (271vb), followed by instructions interspersed with *Proportiones competentes in astrorum industria*, chs 26 and 10 (271vb–272rb); Alkindi (?), *Saturnus in Ariete sub radiis...* (272va–273rb); 'Signa. Aries. Secundum Hys<palensem>, signum regale et signum domini... Domus. Secundum Zahe significat vitam et etiam mortem...' (273va–273vb); Raymundus Lullus, *Tractatus novus de astronomia* (282ra–316rb); added notes by John and Julien of Murs mentioning the years 1320 and 1341, and 'Anno domini 1327^e corrente 21^a Ianuarii, hora tertia quasi, fuit natus K<arolus> per regem [Charles V]. Iuliannus' (316rb); John of Murs, *Figura inveniendi sinus kardagarum*, added (316v–317r). Blank: I-IIr, 317v.

Bibl. *CMPL*, IV, 300–02; P. R. Robinson, *Catalogue of Dated and Datable Manuscripts c. 737–1600 in Cambridge Libraries*, I, Cambridge, 1988, 38–39 (no. 77); *Raimundi Lulli Opera Latina*, XVII, eds M. Pereira, T. Pindl-Büchel, Turnhout, 1989 [Corpus Christianorum Continuatio Mediaevalis, 79], xx; Lemay 1999, I, 297–98; Juste 2007, 308; P. Binski, P. Zutshi, S. Panayotova, *Western Illuminated Manuscripts: A Catalogue of the Collection in Cambridge University Library*, Cambridge, 2011, 292–93 (no. 318); Miolo 2017, II, 193–97; L. Miolo, 'In Quest of Jean des Murs's Library: An Overview of His Readings and Uses of Manuscripts', *Erudition and the Republic of Letters* 4 (2019), 13–39: 31–33.

225ra–249⁵va 'Incipit Liber centilogii Ptholomei cum comento Haly. Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur in Quadripertito stelle in hoc seculo... Scientia stellarum ex te et illis est... (225rb) Quod dixit Ptholomeus, ex te et illis, significat qui res futuras scire desiderat ... (225va) Dixit Ptholomeus: Mundanorum mutacio ad hoc et ad illud corporum supracelestium... Doctrina stellarum ex te ex illis est. Nec est (225vb) doctrina in ea ut propter hanc (!) formam — et ego Deum precor ut te diligat. Et perfecta est huius libri translacio 17 die mensis Marcii, 12 die mensis Gumedii secundi anno Arabum 532.'

= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the 'Mundanorum' version (C.3.1.3) and in Adelard of Bath's translation (B.1.1) (= 'threefold')

version). A few short glosses by the scribe (more substantial f. 240r, 249r and 249⁴v) and by a later hand.

249⁵va–249⁶vb ‘Stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Cambridge, University Library, Peterhouse, 52

s. XIII^{ex}–XIVⁱⁿ. **Or.:** England (f. 115–118; the core of the MS is in an Italian hand with English decoration, see Thomson). **Prov.:** John of Stockton (doctor of medicine, fellow of Peterhouse in 1339 and rector of Brighton), who gave the MS to Peterhouse, cf. f. 143r: ‘Iste liber constat magistro Iohannis de Stocton de Brynton Lyncoln<ensis> dioc<esis> super Broneswolde’, and f. Iv: ‘Iste liber constat communitati domus Sancti Petri ex legato magistri Iohannis de Stoketon, doctoris in medicina, cuius anime propicietur Deus.’

Parchment, I + 143 f., a single hand, except for the Ptolemaic section, added slightly later by another hand, painted initials at the beginning of each section, numerous decorated initials.

Medicine and astrology: table of contents, 15th c. (Iv); Gilbertus Anglicus, *Compendium medicine* (1ra–92rb); ‘Causarum vero sunt IIII species, utiles, efficientes, formales et finales...’ (92va–94vb); Mattheus Platearius, *De simplicibus medicine* (95ra–110ra); *Antidotarium Nicolai* (110ra–115rb); ***Ptolemaica* (115va–118vb)**; Mattheus Platearius, *Practica brevis*, incomplete (119ra–142rb). Blank: Ir, 142v–143.

Bibl. M. R. James, *A Descriptive Catalogue of the Manuscripts in the Library of Peterhouse*, Cambridge, 1899, 72–73; Lemay 1999, I, 235–36; R. M. Thomson, *A descriptive Catalogue of the Medieval Manuscripts in the Library of Peterhouse, Cambridge*, Cambridge, 2016, 30.

115va–118vb ‘Scientia stellarum et ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Haly. Dixit Ptholomeus: Iam scripsi tibi, Yesure, id est domine, libros, scilicet in Quadripartito, de hoc quod operantur stelle in hoc seculo — Et ego Deum precor ut te dirigat. Et perfecta est huius libri translatio 3^o die mensis Martii, secundo die mensis Cuinedi (?) secundi Arabum 309. Explicit.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. One marginal note by the scribe f. 117vb.

Cesena, Biblioteca Comunale Malatestiana, Comunitativa 167.23

s. XVI. **Or.:** probable autograph of Alexander Paduanus, ‘philosopher and physician of Forlì.’

Paper, IV + 183 f., a single hand. The layout of the MS suggests that it was meant to be printed.

Alexander Paduanus’s works of astrological medicine: title page (IIr); table of contents (IIIr–IVr); *De iudiciis astrorum in morbis libri quatuor* (1r–78r); ***Ptolemaica* (83r–86v)**; *In Abraham Avenezre Iudei de luminaribus et criticis diebus commentarius* (89r–150r); *De*

vera causa (!) *dierum criticorum causa disputatio* (152r–163r); volume index of names and subjects (165r–183v). Blank: I, IIv, IVv, 78v–82v, 87r–88v, 150v–151v, 163v–164v.

Bibl. *Catalogo dei manoscritti della Biblioteca Comunitativa*, s.l., 1897 (handwritten catalogue, not seen); Kristeller 1963–1992, I, 45.

83r–86v ‘Alexandri Paduani philosophi ac medici Foroliviensis Expositio super LX enuntiatum Ptolomei de figura XVI laterum. Ptolomeus: Super aegrotis criticos... Adeo varie locuti sunt doctores exponendo hanc sententiam Ptolomei ut vix quid sibi vellit coniectari — et intercidentibus atque vacuis. Et haec pro expositione huius enuntii breviter dicta sufficiant.’
= **Alexander Paduanus, *Expositio super LX enuntiatum Ptolomei de figura XVI laterum* (C.3.22).** No glosses.

Cesena, Biblioteca Comunale Malatestiana, Plut. S.XXVII.1

s. XV². **Or.:** Italy, probably Florence (f. 210–235 were in all likelihood copied on MS → Florence, BNC, Conv. Soppr. J.X.20).

Parchment, 235 f., two hands (f. 1–209 and 210–235).

Astronomy and astrology: ***Ptolemaica* (f. 1r–209v, 210r–222r and 222r)**; ‘Cum volueris scire colorem eclipsis Lune, aspice latitudinem Lune...’ (222r–222v); ‘Mansiones Lune sunt 28, quarum cuilibet dantur 12 gradus zodiaci et 15 minuta et 26 secunda...’ (222v); ‘Sequitur de ymaginibus ascendentibus in faciebus 12 signorum zodiaci. In prima facie Arietis ascendit forma hominis nigri induti...’ (222v–223r); ‘Secundum Albumazar in libro secundo Introductorii stelle fixe in octava spera que vadunt in 100 annis...’ (223r); Haly Embrani, *De electionibus horarum*, end gone due to several missing folia (223r–232v); Hermes/Enoch, *Liber imaginum signorum*, beginning gone (233r–233v); astrometeorology ‘Presagia tempestatis cum fulgura ut candor stelle ab oriente...’ (233v–235v).

Bibl. R. Zazzeri, *Codici e libri a stampa della Biblioteca Malatestiana di Cesena*, Cesena, 1887, 486–87; Monfasani 1984, 13.

1r–209v ‘<P>eroptime mihi videntur, o Syre, qui bene phylosophati sunt, speculativam philosophie partem ab activa separasse. Nam etsi active accidat parti — idoneum hic modum ac finem hec est compositio consecuta.’
= **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4).** Book I, 1r–16v; II, 16v–37r; III, 37r–52v; IV, 52v–69v; V, 69v–91r; VI, 91r–110r; VII, 110r–125r; VIII, 125v–139r; IX, 139r–152r; X, 152r–164v; XI, 164v–179v; XII, 179v–193v; XIII, 193v–209v. Many diagrams are missing, as well as the numerical data in the star catalogue. No glosses.

210r–222r ‘<M>undanorum ad hoc et ad illud mutacio celestium corporum mutatione contingit, rerum igitur causas rimaturo opus est celestia contemplari. Dixit Ptholomeus: Mundanorum etc.: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... <S>ciencia stellarum est

ex te et ex illis... Cum dixit Ptholomeus, ex te et ex illis, significat quod qui res futuras — Et ego precor Deum ut te dirigat. Perfecta est huius libri translacio tercio die mensis Marcii, secundo die mensis Hunedii (?) secundo anno Arabum tricesimo. Explicit Centilogium Ptholomei cum commento Haly.'

= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, except the first sentence from the 'Mundanorum' version (C.3.1.3). No glosses.

- 222r ' <P>tholomeus dixit quod stelle cum caudis sunt 9 — et quando apparuit significat magnam mortalitatem et decollacionem.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Cesena, Biblioteca Comunale Malatestiana, Plut. S.XXVII.2

s. XIII². **Or.:** Bologna, MS copied by the scribe Lafrancus de Pancis of Cremona (information Stefan Georges).

Parchment, 134 f., a single neat hand, richly painted initial at the beginning of each section, decorated initials.

Ptolemaica (single text). Blank: 134v.

Bibl. R. Zazzeri, *Codici e libri a stampa della Biblioteca Malatestiana di Cesena*, Cesena, 1887, 487–88; *CMFB*, IV, 176.

- 1ra–134ra 'Verba Geber filii Afla Yspalensis. Scientia species habet quarum melior post scientiam — (133vb) sunt digniores et evanescent et destruantur. Completa est eius declaratio. Completus est tractatus nonus et est ultimus libri. (134ra) Hunc librum Geber transtulit in Toletum magister Gerardus Cremonensis de Arabico in Latinum.'
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1ra–3ra; I, 3ra–19rb; II, 19rb–36ra; III, 36ra–43ra; IV, 43ra–57ra; V, 57ra–78rb; VI, 78rb–95ra; VII, 95ra–115rb; VIII, 115rb–123ra; IX, 123ra–134ra. Marginal notes by the scribe.

Cesena, Biblioteca Comunale Malatestiana, Plut. S.XXVII.3

s. XIII² (the core of the MS, including the first two Ptolemaic section, was probably copied in or shortly after 1263, date mentioned by the scribe in a gloss (f. 36rb) and denoting presumably the present year; another gloss by the scribe or the contemporary glossator refers to events that occurred in 1267 and 1270, see below), with 14th- and 15th-c. additions f. 111vb–114v (including the third Ptolemaic section). **Or.:** Italian hands. The scribe or the contemporary glossator mentions (f. 76va) a total solar eclipse in Sicily and Calabria, which he himself saw, and the calamities that followed in those regions, including the king of France's disastrous expedition to Carthage through Sicily. These events correspond to the solar eclipse of 25

May 1267 and to Louis IX's Eighth Crusade to Tunis in 1270 (see also Lemay, 70–72). **Prov.:** Giovanni di Marco of Rimini, physician in Cesena, who bequeathed his MSS to the convent of San Francesco in Cesena in 1474.

Parchment, II + 114 f., two similar hands (f. 1–94 and 95–111), with additions by several late medieval hands f. 111vb–114v, decorated initials. A quire is missing between f. 94 and 95.

Astrology: table of contents, 15th c. (inner front cover); Albumasar, *Introductorium maius*, tr. John of Seville (1ra–62ra, preceded by chapter index f. IIv); **Ptolemaica (62va)**; *Capitula Almansoris* (63ra–64vb); Gergis, *De significatione septem planetarum in domibus* (64vb–66rb); Bethen, *De horis planetarum* (66rb–66vb); **Ptolemaica (67ra–93rb)**; Robert Grosseteste (?), *De impressionibus aeris*, end missing (93va–94vb); Zael, *Liber iudiciorum* (95ra–111ra: *Introductorium*, *De interrogationibus* and *Quinquaginta precepta*); ‘Saturnus vero moratur in unoquoque signo mensibus 30...’ (111ra–111vb); ‘Saturnum diligunt Iupiter, Sol, Luna simulque...’ (111vb); ‘Accipe tabulam planam super cuius extremitatem fac circulum...’ (112ra–112vb); **Ptolemaica (113r)**; *Tabula proportionum*, with canon (113v–114v). The missing quire between f. 94 and 95 contained the end of Grosseteste's text and Messahallah's *Liber receptionis* (cf. table of contents). Blank: Iv–IIr.

Bibl. R. Zazzeri, *Codici e libri a stampa della Biblioteca Malatestiana di Cesena*, Cesena, 1887, 488–91; *CMFB*, IV, 177–79; Lemay 1995–1996, IV, 70–79; A. Manfron, *La biblioteca di un medico del Quattrocento. I codici di Giovanni di Marco da Rimini nella Biblioteca Malatestiana*, Torino, 1998, 242–43.

62va ‘<C>um proiectionem radiorum id est stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate. Deo gratias.’
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6).**
Glosses by the scribe.

67ra–93rb ‘Incipit liber 4 tractatum Ptholomei Alfilludhi in scientia iudiciorum astrorum, et in primo tractatu sunt 24 capitula. Capitulum primum in collectione intellectus scientie iudiciorum astrorum, Quadrip<ar>titus sive Alarba dicitur. Rerum, Yesure, in quibus est pronosticabilis scientie stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro finem imponere non incongruum existimamus. Explicit liber 4 tractatum Ptholomei in iudicandi discretione per stellas de futuris et in hoc mundo constitutionis et destructionis contingentibus. Amen.’
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1).** I, 67ra–73rb; II, 73rb–79rb; III, 79rb–88ra; IV, 88ra–93rb. Substantial glosses by the scribe or by a contemporary hand, which often open ‘Sensus huius littere est...’, ‘In alio...’ or ‘Dicit Haly...’. A few glosses by a later hand.

113r ‘Prima die Septembris, Icharus, custos plaustri, apparet — apparet et Cistos, id est Esiendes (?), et est finis Cionis, id est Canis, ante unam diem etc.’
= **Pseudo-Ptolemy, *De temporum mutatione* (B.12).** Added by a 15th-c. hand. No glosses.

Chantilly, Musée Condé, 322 (641)

s. XIV–XV. **Or.:** Italy (Delisle/Macon; added notes in Italian f. 98r–98v).

Paper, I + 144 f. (f. 75–96 and 125–136 are missing), several hands.

Astronomy, geomancy and astrology: diagram of planetary spheres (Iv); Sacrobosco, *De sphaera* (1r–9v), with anonymous comm. (10r–11r); drawing of a quadrant (11v), with canons for use (12r); Sacrobosco, *Computus* (13r–28r); ‘De quantitate planetarum. Constat Solis quantitatem aut equalem aut minorem...’ (28r–31v); calendar and computus tables (32r–36r); added notes of onomancy (36v); Bartholomew of Parma, *Breviloquium artis geomancie* (37r–48v); geomancy ‘De cognitione 16 linearum punctorumque. Generatio 16 linearum...’ (49r–61v); onomancy (62r); diagram of celestial spheres (62v); computus tables (63r–68r); ‘De secretis philosophorum quibus scitur ab astrologo quid homo velit dicere priusquam loquatur et quid defferat in manu...’ (68v–74v); fragment of an astrological text ‘...positionem et appropinquat Soli a parte orientis et revolvitur medietas...’ (97r–97v); added notes in Italian (98r–98v); Alcabitus, *Introductorius* (99r–119v); Bartholomeus Anglicus, *De proprietatibus rerum*, VIII.9 and 11 (119v–121v); *Alchandreana* ‘Incipit quedam regule astronomie. In initio totius creationis primordio 12 signa aptavit Deus zodiaco...’ (121v–123v); *zodiologium* ‘De temporibus anni. Si 18 die mensis Iulii Luna fuerit in Ariete optimus ventus de oriente...’ (123v–124v); *Revelatio Esdrae* ‘De temporibus annis. Si kal. Ianuarii fuerint die dominico est annus pessimus, estas humida...’ (124v); ‘De naturis planetarum et eorum horis. Sol auree est nature, rex, imperator, fortis et citrinus...’, rest gone (124v); **Ptolemaica (137r–138r)**; Pseudo-Aristotle, *De Luna* (138r–139r); *De utilitatibus astrolabii*, ch. 17 (139v); ‘De pluvia. Quando Luna comburitur, vide si Luna prospicit Saturnum...’ (139v); spheres of life and death (140r–141r); ‘Tabula perpetua ad inveniendum pasca’, with canon (141v); ‘De natura quadrantis. Scire debemus quod circulus Solis habet duas medietates...’ (142r–144v). Blank: 12v.

Note f. 125–136, now missing, may have contained Pseudo-Ptolemy’s *Iudicia* (B.3).

Bibl. L. Delisle, G. Macon, *Chantilly, le Cabinet des livres: manuscrits*, I, Paris, 1897, 258–60; Kristeller 1963–1992, III, 205; C. Burnett, ‘Late Antique and Medieval Latin Translations of Greek Texts on Astrology and Magic’, in *The Occult Sciences in Byzantium*, eds P. Magdalino, M. Mavroudi, Genève, 2006, 325–59: 334.

137r–138r ‘De temporum mutatione [title added by another hand in upper margin]. Ut autem de temporum mutatione particulariter nosce verum descideraveris (!), regule que iam dicentur ab animo tuo non labantur. Prima die mensis Septembris, Icarus, custos plaustris, apparet — et si planeta illius turris habetur dominum totius anni.’

= **Pseudo-Ptolemy, *De temporum mutatione* (B.12)**. A couple of short marginal notes by the scribe or a similar hand.

† Chartres, Bibliothèque Municipale, 214 (173)

s. XII¹ (after 1126, the *terminus post quem* of Algorismi’s astronomical tables). **Or.:** probably Chartres (this MS is likely to have been the model of MS Chartres, BM, 498). **Prov.:** Chartres,

cathedral. The MS was bombed in 1944. No microfilm is known to exist, but Ernst Honigmann had photographs of it, at least of f. 1–13, in 1929 (see *Die sieben Klimata und die πόλεις ἐπισήμοι. Eine Untersuchung zur Geschichte der Geographie und Astrologie im Altertum und Mittelalter*, Heidelberg, 1929, 105).

Parchment, 103 f., 260 × 182 mm, one or two main hands, one of which ('W.') copied at least f. 1–7r (cf. f. 7r).

Astronomy and geometry: **Ptolemaica (1r–13v)**; Hebrew, Greek, Chaldean and runic alphabets (14r); 'De nominibus mensium Egyptiorum et in quibus terminis incipiunt...' (14v); *De utilitatibus astrolabii* (15r–21r); *Geometria incerti auctoris*, excerpts (21r–21v); *Sententie astrolabii* (21v–31v); *Geometria incerti auctoris*, excerpt (32v); Gerbert of Aurillac, letter to Constantine of Fleury on the construction of a celestial sphere (32v); 'Artium septem ultima sede...' (33r–34v?); *Geometria incerti auctoris*, excerpts (34v–38v); Ascelinus Teutonicus, *Compositio astrolabii* (38v–41r); Algorismi [al-Khwārizmī], astronomical tables (41r–102).

Bibl. *CGMB*, XI, 109–10; Bubnov 1899, xxv–xxvi; Burnett 1987, 180 (no. 47); C. Burnett, 'The Contents and Affiliation of the Scientific Manuscripts Written at, or Brought to, Chartres in the Time of John of Salisbury', in *The World of John of Salisbury*, ed. M. Wilks, Oxford, 1984, 127–60: 140–42; C. Burnett, 'King Ptolemy and Alchandreus the Philosopher: The Earliest Texts on the Astrolabe and Arabic Astrology at Fleury, Micy and Chartres', *AS* 55 (1998), 329–68: 336–38 and 343 (reprinted in Burnett 2009, I); description by Jean-Patrice Boudet published in 2013 on the website *A la recherche des manuscrits de Chartres. Étude et renaissance virtuelle d'un fonds de manuscrits sinistrés* (<https://www.manuscrits-de-chartres.fr>).

1r–13v 'Incipit Preceptum canonis Ptolomei. Intellectus climatū poli sepiissime requires — (7r) W. finivit me et dedit grates Deo' (followed by the tables f. 7v–13v).

= **Preceptum canonis Ptolomei (A.7.1).**

Chartres, Bibliothèque Municipale, 498 (142)

s. XII¹. **Or.:** Chartres, copied by Thierry of Chartres (d. 1151). **Prov.:** Chartres, cathedral.

Parchment, 246 f., a single neat hand. This MS was largely destroyed in the fire of 26 May 1944, but a preexisting microfilm and a number of fragments of parchment survive (see <http://www.manuscrits-de-chartres.fr/>). Several quires are missing between f. 140 and 141.

Liberal arts (Thierry of Chartres's *Eptateuchon*, whose first volume is MS Chartres, BM, 497): table of contents, late medieval (1v); Aristotle, *De sophisticis elenchis*, tr. Boethius (2r–12r); Boethius, *Introductio ad syllogismos categoricos* (12r–22r); Boethius, *De categoricis syllogismis* (22r–33v); Pseudo-Apuleius, *Perhermenias* (33v–37r); Boethius, *De hypotheticis syllogismis* (37r–52r); Cicero, *Topica* (52v–58r); Boethius, *De topicis differentiis* (58r–73r); Boethius, *De divisione* (73r–78r); Marius Victorinus, *De definitionibus* (78v–85r); Boethius, *De arithmetica* (86r–113v); Gerbert of Aurillac, *Scholium ad Boethii arithmetice institutionem* (114r); Martianus Capella, *De nuptiis Mercurii et Philologiae*, Book VII (114v–122rb); Euclid, *Elementa*, version 'Adelard II', excerpt (122rb–124vb); Boethius, *De musica*, I–II.20, end

gone (125ra–140vb); Euclid, *Elementa*, version ‘Adelard II’, XIV.6–XV.5, beginning gone (141ra–141va); Pseudo-Boethius, *Geometria I* (141va–143ra); *Agrimensores*, various texts and excerpts (143rb–153rb); Gerbert of Aurillac (?), *Isagoge geometriae*, excerpt (153rb–154va); Pseudo-Boethius, *Geometria II* (155rb–166ra); tables and texts on the abacus and arithmetic (166v–169r); Hyginus, *De astronomia*, I–II (170va–173vb); **Ptolemaica (174rb–197v)**; Algorismi [al-Khwārizmī], astronomical tables (198r–246r). Blank: 1r, 85v, 169v–170r, 246v.

Bibl. CGMB, XI, 212–14; Bubnov 1899, xxvi–xxviii; ALC, I.1, 467–68 (no. 475); Leonardi 1960, 29–30 (nos 39–40); M. Folkerts, ‘Boethius’ *Geometrie II. Ein mathematisches Lehrbuch des Mittelalters*, Wiesbaden, 1970, 8–9; B. Munk Olsen, *L’étude des auteurs classiques latins aux XI^e et XII^e siècles*, I, Paris, 1982, 163; Burnett 1987, 180 (no. 48); C. Jeudy, Y.-F. Riou, *Les manuscrits classiques latins des bibliothèques publiques de France. I: Agen-Evreux*, Paris, 1989, 450–55; C. Burnett, ‘The Contents and Affiliation of the Scientific Manuscripts Written at, or Brought to, Chartres in the Time of John of Salisbury’, in *The World of John of Salisbury*, ed. M. Wilks, Oxford, 1984, 127–60: 142–43 and 147; Busard/Folkerts 1992, I, 39–40; L. Toneatto, *Codices Artis Mensurae. I manoscritti degli antichi opuscoli latini d’agrimensura (V–XIX sec.)*, Spoleto, 1994–1995, I, 447–57; Pingree 1997, 11–13; Blume/Haffner 2012–2016, I.1, 225–26.

174rb–197v ‘<Intellectus climatum poli> sepiissime requires si inveneris platos civitatis — (184rb) superiorem et inferiorem et addes aut deduces’ (followed by the tables f. 184v–197v).
= **Preceptum canonis Ptolomei (A.7.1)**. No glosses.

Chicago, Loyola University Chicago – Elizabeth M. Cudahy Memorial Library, UA2020.06

s. XIII. **Prov.:** this is one of two fragmentary folia extracted from the binding of a book. According to an accompanying typewritten note, these fragments were presented by the ‘Right Reverend Monsignor John Rothsteiner’ (probably John Ernest Rothensteiner, 1860–1936) to ‘the College’, i.e. Mundelein College, that merged with Loyola University in 1991. The same note says that the fragments ‘were found in the binding of a Greek Bible belonging to Erasmus’, which would rather mean a copy of one of Erasmus’s editions of the Greek New Testament. The other fragment, different in script, decoration and page-format, contains some Latin legal text.

Parchment, 1 f. (unnumbered), only the upper part of the page remains (125 × 165 mm, 28 lines), a single hand.

Ptolemaica (single text).

Bibl. None. My thanks to Ian Cornelius for calling my attention to this fragment and for kindly providing photographs and context.

[1]r–[1]v ‘([1]r) ... et si possit revolvatur superficiem sui ipsius ut possimus in omni hora elevare polum — Figure vero stellarum fixarum que sunt apud terram tantum sunt 4. Quas quidem ... ([1]v) ... aliqua stellarum fixarum. et hic locus orbis equationis diei est locus orizontis — non oriuntur neque occidunt simul, sed que earum sunt in parte meridiei oriuntur semper...’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, two sections from VIII.3–4 (recto) and VIII.4 (verso). No glosses.

Chicago, The Newberry Library, Ayer Collection 744 (Boncompagni 307)

s. XV^{med} (probably before 1474). **Or.:** ‘written in Italy (the paper suggests northern Italy) by a northern scribe’ (Saenger), possibly Venice, for, on f. 217r, an early annotator reports an event that he himself witnessed in Venice in September 1474, namely a 114-year old woman who grew eight new teeth. **Prov.:** Pietro Girometti (1812–1859); Baldassarre Boncompagni (1821–1894); sold by Boncompagni’s heirs in 1898 (sale catalogue no. 268); acquired by Henry Newton Stevens in 1898, then by Edward E. Ayer in the same year (cf. inner front cover: ‘The Henry Stevens Ptolemy Collection, begun in 1848 and since his death in 1886 continued by his son Henry Newton Stevens until acquired in 1898 by Edward E. Ayer’); acquired from Edward E. Ayer by the Newberry Library in 1911.

Paper, 234 f., a single hand, reserved initials.

Ptolemaica (single text).

Bibl. Narducci 1892, 180 (no. 307); De Ricci 1935–1937, I, 548; P. Saenger, *A Catalogue of the Pre-1500 Western Manuscript Books at the Newberry Library*, Chicago-London, 1989, 223; Kristeller 1963–1992, V, 248 (Ayer Ms. 37); Thomson/Folkerts 2021, 29.

1ra–234va ‘Incipit Liber quadripartiti Ptholomei. <S>cire et intelligere gloriosum est quia omnis sapientia est a Deo... (2ra) <V>erba que dixit sapientissimus Ptho<lome>us in arte iudiciorum astronomie... (4va) Incipit liber quatuor partium qui dicitur Quadripartitus Ptholomei Philadelphi. Capitulum primum tractatus libri quatuor partium Ptholomei (added in smaller letters: de collectione intellectus scientie iudiciorum astrorum). Res, o Misor, quibus per(4vb)ficiuntur pronosticationes — (221ra) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit. Benedictus sit dominus gloriosus et sublimis et Deus illum qui scripsit in omni bono et prosperitate dirigat qui in celo vivit et regnat. Amen. (221rb) De tribus nativitatibus [title in upper margin, hand of the scribe]. Volo in hoc loco dare exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, in prima est nativitas mea — (226va) et Deus te dirigat in viam rectam. Volui probare (226vb) utrum iste actor (!) iudicaret secundum nonam speram vel secundum octavam et inveni per loca planetarum que sunt in figura sue nativitatis quod ipsa fuit annis Christi perfectis 986, 10 mensibus, 15a die Ianuarii, qua die equavi planetas secundum tabulas Mach<linienses> et inveni sic. Explicit liber Ptho<lome>i astrologie cum commento Haly. (227ra) <Q>uia secundum Ptho<lomeu>m in secunda parte Quadripartiti, capitulis primo et quinto, inter 5 necessaria ad perfectum iudicium astronomicum, secundum est scire locum in quo continget accidens — (233va) et Macolia ipse partes de Cartor et sui termini. (234ra) De partibus Asye et eius regionis notandum est pro expositione secundi Quadripartiti quod regnum Cathay — habitant circa Montem Cocas altum valde in cuius summitate nemo habitare potest.’

= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2). Translator's preface, 1ra–1vb; Haly's preface, 2ra–4va; I, 4va–61va; II, 61va–119vb; III, 120ra–182va; IV, 182va–221ra; Haly's appendix, 221rb–226va; additional note, 226va–226vb; Alfonsus Dyonisii of Lisbon's addition, 227ra–233va; Hayton of Corycus, *Flos historiarum terre orientis*, summarised excerpts from I.1–5, on the geography of China and other kingdoms of the far east, 234ra–234va (on this last section, see discussion and edition by J. Gil, 'Una versión latina epitomada de Haitón de Armenia', *Habis* 29 (1998), 303–06). Short glosses by the scribe and by several other hands, sometimes substantial (e.g. 152r–152v). At least two of these glosses (f. 7r and 17r) give an alternative translation ('alia translatio'), which turns out to be Plato of Tivoli's.

Chicago, The Newberry Library, Case 93–2

s. XV² (f. 2r–97v were most probably copied between 1453 and 1456, since, in a note f. 93r, George of Trebizond, referring to his age, wrote 60 over 58, cf. Saenger, who used ultraviolet lamp). **Or.:** Italy (Naples and Rome), George of Trebizond corrected and annotated f. 2r–97v, added the end of the commentary to the *Centiloquium* f. 90v–93r and copied f. 98r–106r. Theodore Buchinck wrote the headings f. 2r and 13r (Monfasani).

Paper, 106 f., only sporadically numbered, two hands (f. 2r–97v and 98r–106r).

Astrology: **Ptolemaica** (2r–93r); George of Trebizond, *Liber de antisciiis et cur astrologorum iudicia plerumque fallant* (90v–106r). Blank: 1, 106v.

Bibl. Monfasani 1984, 13–14; P. Saenger, *A Catalogue of the Pre-1500 Western Manuscript Books at the Newberry Library*, Chicago-London, 1989, 177–78.

2r–93r 'Liber Claudii Ptolomei qui vocatur fructus ad illustrissimum Alfonsum regem Aragonum et utriusque Siciliae a Georgio Trapezuntio ex Graeco in Latinum versus. <I>am pridem perutiles ad providendum operationes stellarum, o Syre, quas in hoc composito efficiunt mundo exposuimus... Primus amporismus. <A>bs te et a scientia, non est enim possibile ut huius scientiae professor particulares rerum ideas prevideat — (12v) Sin vero non moventur hostis indigena erit. Finis. (13r) Commentarii et expositiones Georgii Trapezuntii in aphorismis libri fructus Ptolomei ad Alfonsum regem Aragonum et utriusque Sicilie. <L>ibellus hic quem de Graeco traductum nomini tuo dedicavimus, illustrissime rex... (15r) <A>bs te et a scientia. Abs te, inquit, hoc est a quadam insita vi animi et ingenio et a scientia nature stellarum precognitio fit — (90v) nec oratoribus quidem ignotus est. Est autem distantia a XI signorum in iis solum cometis qui apparent — ut sicut raro apparent, sic inconsueta significare videantur.'

= **George of Trebizond**, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11), without George of Trebizond's preface. Author's preface, 2r; text, 2r–12v; commentary, 13r–93r (with the end of the commentary 'Est autem distantia a XI signorum...' added by George

of Trebizond in the margin of f. 90v–93v). Corrections and annotations, sometimes substantial, by George of Trebizond.

Copenhagen, Kongelige Bibliotek, Gl. kgl. S. 3499 8^{vo}

s. XV. **Or.:** Germany, probably southern Germany or Austria (cf. f. 2r–50r, 66v, 115v–116v).

Prov.: ‘Sthonhez’ (inner front cover).

Paper, 119 f., one main hand.

Geomancy, alchemy and astral magic: recipes ‘Ad faciendum atramentum...’ (1r–1v); ‘Aperi, quesumus, domine, in cordibus nostris intellectum questionis... Explicit Geomancia ducis Austrie antiqui’ (2r–50r); recipe (50v); prayers in German (51r–59v); alchemical recipes (60r–60v); ‘Sequitur secreta artis alchimie et verissima’ (61r–66v); ‘Ars et scientia aurifabrorum de Bloin in Nuremberga, et est divisio auri ab argento’ (66v, repeated 112v); alchemical recipes (67r–85v); Thebit Bencora, *De imaginibus* (86r–92r); Hermes/Belenus, *Liber imaginum Lunae* (92v–95v, in a version that also includes Pseudo-Aristotle’s *De Luna*); **Ptolemaica (96r–102v)**; Hermes, *De imaginibus et horis* (102v–110r); ‘Et qui de nocte vult operare per eum...’ (104r–110r); ‘Ad faciendum lapidem philosophorum’ (111r–115v); ‘Ars extrahendi aurum ab argento deaurato aut in quo est aurum, quam habent aurifarbi de Bloen in Nuremberga morantium’ (115v–116v); alchemical recipes in German and Latin (117r–119v). Blank: 110v.

Bibl. E. Jørgensen, *Catalogus codicum Latinorum Medii Aevii Bibliothecae Regiae Hafniensis*, København, 1926, 449; Kristeller 1963–1992, III, 177.

96r–102v ‘Incipit liber Ptholomei de ymaginibus super facies signorum. Opus Ptholomei ymaginum et est omnibus modis verior, propior et valencior in probatione quoniam eius effectus constitutus est super facies duodecim signorum. Dixit Alburabeth Benfeliz quia omnes orientales operabantur per has ymagines — et impetrab<is> ex eo quod animus tuus desiderat.’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14).** No glosses.

Cracow, Biblioteka Jagiellońska, 551

s. XIV^{ex} (copied for the most part in 1388, cf. f. 30vb: ‘In nomine domini finis adest in tabulas Alphonsii canonum anno 1388^o’, f. 34va: ‘Et sic est finis illorum canonum astrolabii anno domini nativitatis eiusdem 1388^o’, f. 42r: ‘Et sic adest finis huius theorice planetarum communis sub anno millesimo 388 in die sancti Bartholomei, hora 20a’, f. 56ra: ‘Explicit algorismus minutiarum vulgarium et physicarum sub anno dominice incarnationis 1388^o’, and f. 127ra: ‘Et in hoc conpletur compositio chylindri in die 5 fratrum anno 1388’ and ‘Finitus est anno 1388 in die quinque fratrum’). **Or.:** probably Prague, cf. ‘secuntur radices super meridianum Pragensem...’ (f. 5r) and calculations for Magdeburg and Prague (as well as, by later hands, for Vienna, Erfurt and Cracow) f. 7v–12v. **Prov.:** the MS appears to have been in Cracow by 1420, cf. added table f. 101v: ‘Radices ad meridianum Cracoviensem anno domini 1420...’; Johannes

de Szoda [Środa Wielkopolska], master of the University of Cracow in 1477 (cf. f. IVv: 'Anno 1493. Liber magistri Iohannis Stalczar Dobyesleyte de Szoda munere datus pro cognatis studentibus'); Petrus Tomicki (d. 1535), bishop of Cracow, who bequeathed the MS to the College of Theologians of the University of Cracow (cf. 1r: '1536, reverendissimus dominus Petrus Thomicius episcopus Cracoviensis collegio theologorum legavit').

Parchment, VII + 129 f., several contemporary hands.

Astronomy, astrology, magic and alchemy: Alfonsine tables (1r–22v); John of Saxony, *Canones* (23ra–29ra); John of Saxony, *Canones eclipsium* (29ra–30vb); Pseudo-Messahallah, *De compositione astrolabii*, beginning of second part 'Incipiunt canones astrolabii de inventione gradus Solis per diem mensis et e converso. Cum volueris scire in quo signo sit Sol...' (30vb–31vb); 'Nomina vocabulorum in astrolabio sunt hec: Primo armilla suspensoria ad capiendum...' (32ra–34va); *Theorica planetarum Gerardi* (35r–42r); Johannes Eligerus de Gondersleuen, *De utilitate quadrantis* (42va–44rb); 'Nota: Umbra versa est umbra omnis rei equedistantis...' (44rb); 'In compositione horalogii premittenda sunt prius nomina rotis...' (44va–49ra); syzygy tables (49v–52r); John of Ligneres, *Algorismus de minutis* (52va–56ra); astrolabe 'Scribitur primo Posteriorum quod in omni scientia quid nominis presupponitur...' (56ra–57rb); magical recipe, partly covered with ink (57va–57vb); John of Ligneres, *Canones primi mobilis* (58ra–63rb); John of Ligneres, *Canones* (63rb–70vb); added notes of medicine, 15th c. (71ra–73vb); Alfonsine tables (74r–96v); astronomical and astrological tables (97r–108v); medical recipes (109r); *Ars notoria* (109va–111v); Johannes de Plauen, *Oycreper* (112r–115r); magical recipe (115r); Pseudo-Albertus Magnus, *Secreta mulierum* (115va–116ra); magical recipes (116rb–117ra); chiromancy 'Nunc videndum est de operatione...', crossed out (117ra–117rb); magical recipes (117va–118r); 'Nota quod Sol in emisperio australi et Venus sub radiis eiusdem...' (118va–120rb); 'Nota. Secundum Willermum Anglicum quamlibet planetam speram habere spissam et solidam...' (120rb–120va); **Ptolemaica (120va–121rb)**; Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. Haly (121va–122rb); Guillelmus Anglicus, *De urina non visa* (122rb–124ra); 'Incipiunt considerationes astroloice (!). Quando Luna comburitur vide si Luna prospicit...' (124ra–124vb); Pseudo-Thebit Bencora, *De motu octave spere* (124rb–125rb), with figure (125v); 'Nota. Sole in Geminis, Saturno in Piscibus...' (125rb); 'In usum chylindri primum capitulum ad sciendum que sit altitudo Solis...' (126ra–127ra); 'Ad componendum horarium fac hoc modo...' (127ra); 'Incipit liber alchimisticus. Post sim sum (?) sequitur ultima Luna...' (127v–128v); solar table, with note (129r–129v); scattered notes (129v and inner back cover).

Bibl. Wisłocki 1877–1881, I, 171–72; Rosińska 1984, 552 (index); *CCMM*, III, 333–44; Markowski 1990, 293; Láng 2008, 320; Moulinier-Brogi 2011, 207–08; J. Chabás, M.-M. Saby, *The Tables of 1322 by John of Lignères. An Edition with Commentary*, Turnhout, 2022, 31–32.

120va–121rb 'Centiloquium. Anima naturata iudicat super secundis a stellis et erit eius certificatio plus quam multorum — qui non operabitur aliquis nisi quod diligit.'
= **Abuiafar Hamet filius Joseph, <Commentum in Centiloquium>, 'Mundanorum' version (C.3.1.3)**, v. 4–5, 8–9, 13, 19–21, 45, 61, 50, 63, 74, 86 (same in MS ↗Leipzig, UB, 1484). No glosses.

Cracow, Biblioteka Jagiellońska, 558

s. XV². **Or.:** Italy, probably Ferrara. **Prov.:** Regiomontanus, who annotated the MS c. 1464; then it may have belonged to Martinus Bylica de Olkusz before entering the University of Cracow.

Paper, 116 f., a single hand.

Ptolemaica (single text). Blank: 1v–2v, 21–22, 126–128. An added note f. 116r (under the explicit) reads ‘Gauricus demonstrabat horoscopum habere inclinationem ad...’

Bibl. Wisłocki 1877–1881, I, 174; L. A. Birkenmajer, ‘*Flores Almagesti*. Ein angeblich verloren gegangener Traktat Giovanni Bianchini’s Mathematikers und Astronomen von Ferrara aus dem XV. Jahrhundert’, *Bulletin International de l’Académie des Sciences de Cracovie, Classe des Sciences* (1911), 268–78: 270–78; *CCMM*, III, 384–85; Rosińska 1984, 553 (index); G. Rosińska, ‘The “Italian Algebra” in Latin and How it Spread to Central Europe: Giovanni Bianchini’s *De Algebra* (ca. 1440)’, *Organon* 26–27 (1997), 131–45: 134–35.

1r–116r ‘Liber florum Almagesti per Ioannem Blanchinum in novem tractatibus editus [title added by another hand in top right corner]. Tractatus primus de arismeticha per Iohannem de Blanchinis. Liber primus. Incipit prohemium [titles by the scribe in top margin]. Arismetrica (*corr. in* Arithmetica) dico quod determinatur per numeros, et duas noto diffinitiones numerorum — et si excesserit minuta 50 vel erit grisa cum albedine. Et sic est finis. Sit laus et gloria. Et sic est finis. Sit laus et gloria trinis.’
= **Giovanni Bianchini, *Flores Almagesti* (C.1.17)**. I, 1r–12r; II, 12r–15v; III, 16r–25r; IV, 25r–29v; V, 30r–47v; VI, 48r–80v; VII, 80v–94r; VIII, 94v–100r; IX, 100v–110r; X, 110r–116r. A few marginal notes by the scribe and by one or two contemporary or somewhat later hands, including Regiomontanus’s.

Cracow, Biblioteka Jagiellońska, 569

s. XIVⁱⁿ. **Or.:** France. **Prov.:** Matthias de Miechow (1457–1523), cf. f. IIIv (in Nicolaus de Wieliczka’s hand): ‘Datum pro libraria universitatis studii Cracoviensis per venerabilem dominum doctorem Mathiam de Miechow, canonum Cracoviensem’; Nicolaus de Szadek, *fl.* 1518–1532; Valentinus Fontana (1545–1618); Jan Brożek (1585–1652), cf. f. IIIv: ‘Ego Ioannes Broscius Curzelouiensis acceperam istum librum a clarissimo domino Valentino Fontano anno 1614. Vide privilegium astrologi ordinarii in quo auxit cenum ipsius pie memorie dominus Matthias Miechouvita, ubi mentionem fecit huius et aliorum librorum...’

Parchment, V + 200 f., a single neat hand. One or several folia are missing between f. 120 and 121.

Geometry, astronomy and optics: table of contents by Matthias de Miechow (IIIv); Anaritius [al-Nairizi], comm. on Euclid’s *Elementa* (1r–23r); Abbacus [Ibn ‘Abd al-Bāqī], *Liber Iudei super decimum Euclidis* (23r–37v); Euclid, *Elementa*, ed. Campanus of Novara, Books XI–XV in a reworked version (37v–47r); Ibn Mu‘ādh, *De crepusculis* (47r–48v); Campanus of Novara, reworking of Theodosius’s *Spherica* (49r–63v); **Ptolemaica** (63v–115r); Pseudo-Messahallah,

Liber de orbe, short version (115r–120r); Egidius de Baisiu, *Improbatio cuiusdam cause que solet assignari quare radius Solis transiens per foramen quadrangulare facit figuram rotundam in pariete*, end gone (120r–120v); Alhazen, *De aspectibus*, fragment from Book VII, beginning gone (121r–122v); Alkindi, *De aspectibus* (122v–128r); Tideus, *De speculis* (128r–128v); Ptolemy, *Optica* (129r–146v); Euclid, *Elementa*, ed. Campanus of Novara (147r–198v). Blank: I–II, 199–200.

Bibl. Wisłocki 1877–1881, I, 178; Björnbo/Vogl 1912, 132–34; L. Hajdukiewicz, *Biblioteka Macieja z Miechowa*, Wrocław, 1960, 287–90; Rosińska 1984, 553 (index); *CCMM*, IV, 26–30; A. Lejeune, *L'Optique de Claude Ptolémée dans la version latine d'après l'arabe de l'émir Eugène de Sicile*, Leiden-New York, 1989, 42–43.

63v–115r ‘Incipit liber Ieber. Scientia species habet quarum melior post scientiam — sunt digniores ut evanescent et destruantur. Completa est declaratio eius. Explicit liber Ieber quo corrigit Almagestis (!) Ptholomei.’
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 63v–64v; I, 64v–70v; II, 70v–77r; III, 77r–79r; IV, 79r–84v; V, 84v–92v; VI, 92v–100r; VII, 100r–108r; VIII, 108r–110v; IX, 110v–115r. Glosses by the scribe or a similar hand up to f. 69r. Marginal note by another hand f. 64v.

Cracow, Biblioteka Jagiellońska, 578

s. XVⁱⁿ (pp. 343–418); most of the MS dates from the end of the 13th c. or the beginning of the 14th c. (pp. 231–318) and from the 14th c. (pp. 1–228 and 319–342). **Or.:** perhaps Paris (*CCMM*). **Prov.:** the MS belonged in 1512 to Benedictus Longo, who had bought it from one ‘Master Laurencius’, cf. p. 1: ‘Liber iste est mei, Benedicti Longo, quondam magistri Laurencii, currente anno domini 1512’ and inner front cover: ‘Liber iste est mei, Benedicti Longo, quem emi precio ducatorum 1½.’

Parchment, 420 pp. Composite MS made of three parts, each copied by a single neat hand: I, pp. 1–228 and 319–342; II, pp. 231–318; III, pp. 343–418.

Astronomy and astrology: John of Ligneres, *Canones* (1a–62b); Alfonsine tables (63–228); Alcabitus, *Introductorius* (231a–288b); Albumasar, *Flores* (289a–327b); Albumasar, *De revolutionibus annorum mundi* (328a–375a); ***Ptolemaica* (375b–418a)**; added calculations regarding the solar eclipse of 6 April 1540 (419–420). Blank: 229–230.

Bibl. Wisłocki 1877–1881, I, 181–82; Rosińska 1984, 553 (index); *CCMM*, IV, 71–77; Lemay 1999, I, 237–38.

375b–418a ‘Incipit Centiloquium Ptholomei cum comento Aly. Liber fructus Ptholomei expositus a Buguafaro in quo sunt 100 verba. Dixit Ptholomeus: Iam premisi libros quibus tractavi de interpretationibus planetarum et hoc modo... Primum verbum. <S>cientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Glosa prima. Quot Ptholomeus dixit, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — et ego Deum precor ut te diligit. Perfecta est huius libri translatio 17 die mensis Marcii,

13 die mensis Gumedi anni Arabum 1130. Finit liber centum verborum Ptholomei. Explicit Centiloquium Ptholomei cum commento Ali.’

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**, except for the preface, given in the ‘Iam premisi’ version (C.3.1.4). No glosses.

Cracow, Biblioteka Jagiellońska, 580

s. XV² (c. 1450–1465). **Or.:** northern Italy. **Prov.:** Martinus Bylica de Olkusz (cf. f. 1r: ‘Liber Martini de Ilkus, plebani Budensis et custodis Kelcensis’), who annotated and corrected the text on f. 1v, 2r, 3r, 13r and 14r–23r. The MS was perhaps aimed for Rodrigo Borgia (future Alexander VI).

Paper, 189 f., two very neat hands (I: f. 1–91 and 120–88; II: f. 92–103), MS richly decorated with painted initials at the beginning of each book of the *Mathesis*.

Astrology: Firmicus Maternus, *Mathesis* (1r–187v); **Ptolemaica** (187v–188v). Blank: 189.

Bibl. Wisłocki 1877–1881, I, 183–84; Rosińska 1984, 553 (index); *CCMM*, IV, 86–87; M. Rinaldi, ‘*Sic itur ad astra*’. *Giovanni Pontano e la sua opera astrologica nel quadro della tradizione manoscritta della Mathesis di Giulio Firmico Materno*, Napoli, 2002, 238.

187v–188v ‘<Q>uoniam in primo libro partium terminos et loca posuimus, iudicia sub earundem demonstratione curavimus. Pars fortune et eius dominus corpus et que ad corpus attinent — participio erit assumenda. Pars item peccunie...’ = **Pseudo-Ptolemy**, *Liber de iudiciis partium* (B.8), breaks off mid-sentence in the chapter dealing with the part of the second house. No glosses.

Cracow, Biblioteka Jagiellońska, 587

s. XV^{med} (c. 1450). **Or.:** University of Cracow. **Prov.:** Martinus Krol de Zurawica, cf. f. Ir: ‘Liber Martini de Premisla Poloni, magistri universitatum Cracovensis, Lipsiensis, Pragensis, Padueniensis (?), Bononiensis, ac doctoris medicine.’

Paper, I + 156 f., several hands. Title on f. Ir (hand of Martinus Krol de Zurawica): ‘Ptholomei Quadripartitus cum commento Hali.’

Ptolemaica (single text).

Bibl. Wisłocki 1877–1881, I, 186; Rosińska 1984, 553 (index); *CCMM*, IV, 125–26.

1ra–156vb ‘Dixit Egidius de Tebaldis Lumbardus de civitate Parm<ensi>: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (1va) Tractatus glose Hali Abenrudiani super prima parte Hali (!) libri quadripartiti Pto<lome>i Pheludiani. Verba que dixit sapientissimus Ptholomeus in arte iudiciorum... (3ra) Capitulum primum primi tractatus libri quatuor partium Pto<lom>ei. Res, o Misori, quibus perficiuntur pronosticationes acceptae de astronomia

maiores et nobiliores sunt secunde — posuerit in hoc libro sunt regule et radices quibus ars ista proponitur. Et sic est finis Ptolomei cum comento Haly etc.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 1ra–1va; Haly’s preface, 1va–3ra; I, 3ra–41ra; II, 41ra–83rb; III, 83rb–128vb; IV, 128vb–156vb. A few short glosses by two or several contemporary hands, including by Martinus Krol de Zurawica and Martinus Biem de Olkusz acc. *CCMM*.

Cracow, Biblioteka Jagiellońska, 588

s. XVI¹ (c. 1530). **Or.:** copied by Matthias de Krajna at the University of Cracow. **Prov.:** University of Cracow library in 1546.

Paper, 292 f., a single hand.

The MS contains essentially Matthias de Krajna, *Dispensatorium medicinale ex variis auctoribus collectum* (10v–289v), except for ***Ptolemaica* (2r–10r)** and various excerpts from Ovid (1r–1v, 290v–291r and 292r–292v).

Bibl. Wiśłocki 1877–1881, I, 187; Kristeller 1963–1992, IV, 405; *CCMM*, IV, 127–33; Kristeller 1963–1992, VI, 581.

2r–10r ‘Cla<udii> Ptolomei inerrantium stellarum significationes per Nicolaum Leonicum e Graceo translate. Ianuarius. 1 K<alendis>: Sol elevari incipit, longiusculi fiunt dies, Aquila et Corona occidunt, tempestatemque efficiunt. 2. IIII: Sol magis ascendit, Cancrī medium occidit, ventique ponunt — (December) 23. x: Capella matutino emergit. Reliquum deficit.’
= **Pseudo-Ptolemy, *Inerrantium stellarum significationes* (B.13).** Glosses by the scribe (Matthias de Krajna). The text was copied from a printed version.

Cracow, Biblioteka Jagiellońska, 589

s. XV^{ex} (f. 1r–206v completed in 1495; f. 221r–267v copied in 1494). **Or.:** copied by one Henricus Griffinus of Ragnit [Neman, Russia] at the University of Cracow (cf. f. 206v, 246v and 267v). **Prov.:** Leonardus de Dobczyce (cf. f. Iir: ‘Liber iste erat magistri Leonardi de Dopczicze sacrorum canonum baccalaurei, collegiati maioris collegii artistarum. Datus pro libraria artistarum studii Cracoviensis’).

Paper, 270 f., a single hand.

Astronomy: ***Ptolemaica* (1r–208v)**; Johannes de Dondis, *Astrarium* (221r–246v); Campanus of Novara, *Theorica planetarum* (251r–267r); Pseudo-Thebit Bencora, *De motu octave spere* (267r–267v). Blank: 209–220, 247–250, 268–270.

Bibl. Wisłocki 1877–1881, I, 187; Benjamin/Toomer 1971, 98–99; Rosińska 1984, 553 (index); *CCMM*, IV, 133–37; Kunitzsch 1986–1991, II, 19–20; Markowski 1990, 296; Georges (forthcoming).

1r–208v ‘Quindam (!) princeps nomine Albugaife in libro suo quem scienciarum eleccionem et verborum nominavit... (2r) Edicionis magne Almagesti Ptholomei quem conscripsit de sciencia stellarum et motuum qui sunt in celo. Diccio prima feliciter incipit. Ecce tibi capitulum primum dictionis prime. Bonum fuit scire quod a sapientibus non deviantibus visum est — (206v) et abbreviacionem, arroganciam et collaudacionem, tunc iam sequitur et honestum est ut hic ponamus finem libro. Expleta est diccio 13a libri Ptholomei et cum ea completur liber Almagesti de disciplinabilibus sive de motibus corporum supercelestium, scriptus per Henricum Griffinum Ragnetensem in studio Alme universitatis Carcoviensis (!) anno salutis nostre 1495. Laus Deo sine fine’ (followed by a diagram f. 208v).

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A with elements from Class B. Preface, 1r–1v; I, 2r–13v; II, 13v–34v; III, 34v–48r; IV, 48r–67v; V, 67v–87r; VI, 87r–105r; VII, 105v–122v; VIII, 122v–138v; IX, 138v–156r; X, 156r–166r; XI, 166r–181r; XII, 181r–193r; XIII, 193r–206v. F. 207r–208r are blank and f. 208v contains the circular diagram from VI.13, which had been left incomplete *in loco* (f. 105r). Many tables are incomplete. Glosses by the scribe, on which see also Zepeda 2018, 83. The *Almagest* was copied from MS $\rightarrow$ Cracow, BJ, 619.

Cracow, Biblioteka Jagiellońska, 590

s. XIV. **Or.:** northern Italy, probably Florence and perhaps by a scribe of Catalan origin (Georges, see also *CCMM*, 139 and 140). **Prov.:** Marsilio Santasofia (d. Pavia, 1405) (f. 11r: ‘Liber Almagesti Tphollomei (!) Marsilii de Sancta Sophia arcium et medicine doctoris’); Matthias de Miechow (d. 1523), who bequeathed the MS to the University of Cracow (f. 11r: ‘Datus pro libraria universitatis studii Cracoviensis per venerabilem dominum doctorem Mathiam de Miechow, canonicum Cracoviensem’).

Parchment, II + 142 f., a single hand acc. Georges, despite the seemingly different scripts.

Ptolemaica (single text).

Bibl. Wisłocki 1877–1881, I, 187; L. Hajdukiewicz, *Biblioteka Macieja z Miechowa*, Wrocław, 1960, 314–15; Rosińska 1984, 69 (no. 299); *CCMM*, IV, 137–40; Kunitzsch 1986–1991, II, 18; Georges (forthcoming).

1ra–142va ‘Liber hic precepto Maimonis regis Arabum, qui regnavit in Baldach... (2rb) Bonum quod fecerunt in eo quod video illi qui perscrutati sunt — neque consecuti sunt ex eius comprehensione quod oportet. (3ra) Incipit liber Almagesti Ptholomei. Dictio prima [title in upper margin, by the scribe]. Quidam princeps nomine Albugaife in libro suo quem scientiarum

electionem et verborum nominavit... (3va) Capitulum primum in quo huius scientie excellentiam et finem eius utilitatis dicam. Bonum domine fuit quod sapientibus non deviantibus visum est — et honestum est ut ponamus hic finem libri. Expleta est dictio terciadecima libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Deo gratias.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 3ra–3va; I, 3va–16ra; II, 16ra–31ra; III, 31ra–39rb; IV, 39rb–50rb; V, 50rb–62rb; VI, 62rb–73vb; VII, 74ra–82v; VIII, 83r–89va; IX, 89va–105ra; X, 105ra–113va; XI, 113va–124rb; XII, 124rb–133rb; XIII, 133va–142va. The text is preceded by two items : (1) the end of the preface and chapter index of Book I, 1ra–1va; and (2) ch. I.1 in Ishāq’s version, 2rb–2va. Numerous glosses by the scribe in Books I–VI and occasional glosses in Books VII–XIII, a selection of which (shared by MSS →Vatican, BAV, Barb. lat. 173 and →Vatican, BAV, Vat. lat. 2057) have been edited by Zepeda 2013, 386–89.

Cracow, Biblioteka Jagiellońska, 591 [Plate 21]

s. XV^{ex} (f. 2–113, c. 1494 – this section is identical in style and layout with MS →Cracow, BJ, 1964, copied in 1494 by Martinus Biem de Olkusz) and XVIⁱⁿ (f. 1v and 115–45). **Or.:** University of Cracow, copied by Martinus Biem de Olkusz and Nicolaus de Wieliczka.

Paper, 145 f., two hands: I (Martinus Biem de Olkusz), f. 2–113; II (Nicolaus de Wieliczka), f. 1v and 115v–145v.

Astronomy: scattered astrological notes (1r); ***Ptolemaica* (2r–113r)**; Peurbach, *Theoricae novae planetarum*, incomplete (115v–142v); scattered astrological notes (144v–145v). Blank: 1v, 113v–115r, 143r–144r.

Bibl. Wisłocki 1877–1881, I, 187; Monfasani 1984, 22; Rosińska 1984, 553 (index); *CCMM*, IV, 140–42; Malpangotto 2020, 663.

2r–113r ‘Magne composicionis Ptholomei libri a Georgio Trapestio (!) traducti incipiunt foeliciter. Prefacio auctoris. Capitulum primum. <P>eroptime mihi videntur, o Syre, qui bene philosophati sunt, speculativam philosophie partem ab activa separasse — qui ab eclipticis Solis terminis maximus intercipitur, partibus in obliquo quidem circulo 16, 23, in circulo vero, qui est per polos zodiaci 1, 25...’

= **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**. Abrupt end in VI.6 at the bottom of f. 113r. Book I, 2r–19r; II, 19v–46v; III, 46v–62v; IV, 62v–81r; V, 81r–104v; VI, 104v–113r. No glosses.

Cracow, Biblioteka Jagiellońska, 592

s. XV^{ex}. **Or.:** probably Italy. **Prov.:** Martinus Biem de Olkusz, who annotated the MS.

Paper, 150 f., a single neat hand.

Ptolemaica (single text).

Bibl. Wisłocki 1877–1881, I, 187; Monfasani 1984, 22; Rosińska 1984, 553 (index); *CCMM*, IV, 143–44.

1r–150v ‘Magne compositionis Ptolomei libri a Georgio Trapestio (!) traducti incipiunt foeliciter. Prefatio auctoris. Capitulum primum. <P>eroptime mihi videntur, o Syre, qui bene philosophati sunt, speculativam philosophie partem ab activa seperasse (!) — hanc quoque spheram non erraticam vocari. Invenimus enim ita se utrumque istorum habere ex apparentibus, quae tanto tempore...’
 = **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**. Abrupt end in VII.1 at the bottom of f. 150v. Book I, 1r–20v; II, 21r–50v; III, 51r–71r; IV, 71r–94r; V, 94r–123v; VI, 123v–150v; VII, 150v. No glosses, except for interlinear and marginal notes by Martinus Biem de Olkusz f. 8v–8v.

Cracow, Biblioteka Jagiellońska, 593

s. XV¹ (in or before 1444 for the core of the MS, with additions from the second half of the 15th c. on f. 66v–71). **Or.:** University of Prague; the MS is glossed by Johannes Andree Schindel, who attended Johannes Borotin’s lectures on Ptolemy’s *Quadripartitum* in Prague in 1444, evidently with this MS in front of him (cf. f. 73r: ‘1444 die Martis in die Felicis in Pincis, magister Joh<annes> Borot<in> incepit legere’ and f. 145v (bottom): ‘Anno domini 1444 corrente 10 die Decembris, die Iovis, magister Ioh<annes> Bor<otin> finivit dominum Ptolomeum’; the same glossator also included horoscopes for 1444 on f. 88r, 88v, 99v, 124v and 134r, and mentions the year 1444 on f. 118v, as well as Prague and Bohemia, e.g. on f. 84v: ‘Ante annos 30 Prage et per Bohemiam multe sunt vise mulieres...’); the same Borotin had attended Schindel’s lectures on the *Almagest* some 30 years earlier (cf. MS ‘Prague, APH, O. I). **Prov.:** the MS was donated to the University of Cracow in 1489 by Blasius de Casimiria, student in Cracow from 1452 onwards (f. 1r: ‘Magister Blasius de Kazimirz, sacre theologie baccalarius, hunc librum dedit pro Universitate Cracoviensi ac incremento studii eiusdem. Oretur pro eo. Hoc fecit anno domini 1489’).

Paper, 147 f., a single hand for f. 1r–66v, 73r–145v and 147r–147v, with later additions f. 66v–68v, 71v and 146v (originally blank) by at least two hands. Reserved initials.

Astrology mainly: ***Ptolemaica* (1r–66v and 73r–145v)**; Aristotle, *De sensu et sensato*, fragment (147r–147v). The added texts include Hermes, *Liber de accidentibus* (66v–67r); ‘Stelle in zodiaco fortioris sunt operis et manifestioris qua mille extra zodiacum — Et propter hoc Ptolomeus ordinavit figuras septentrionales antequam meridionales’ (67r); ‘Prima domus vite sed dicitur (?) altera census...’ (67r); incomplete circular diagram showing the 12 signs, planets and a few geographical names, with note on aspects ‘Aspectus est certa distancia planetarum in certis locis zodiaci...’ (67v); notes on the great conjunctions for 1462–1473 ‘Coniunctio maxima secundum Albumasar fit in 960 annis...’ (68ra–68rb); ‘De nominibus XII signorum sic dicunt: Aries, Thaurus...’ (68rb–68va); notes ‘De revolutionibus annorum mundi. Si aliquis (?) fuerit fixum, figura sufficit ad totum annum...’ (71v); table of essential dignities (146v). Blank: 68vb–71r, 72, 146r.

Bibl. Wisłocki 1877–1881, I, 187–88; Rosińska 1984, 553 (index); *CCMM*, IV, 144–48.

1r–66v, 73r–145v ‘Capitulum primum in collatione intellectus scientie iudiciorum astrorum [title in the margin]. <R>es, o Misor, quibus perficiuntur prenosticationes accepte de astronomia maiores et nobiliores sunt due. <U>na quarum est que debet in ordinatione et virtute preponi et est hec ars qua duorum luminarium et quinque planetarum figure sciuntur secundum motum suum hec quia per eam scit homo figuras stellarum secundum motus — Et postquam in modo universali perfecimus iudicium nativitatum finem in hoc loco huic libro imponere conveniens extimamus. Et est finis Quadripartiti Pto<lom>ei.’
= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2), without the translator’s preface and without Haly’s preface and commentary. I, 1r–25v; II, 25v–66v; III, 73r–118r; IV, 118v–145v. Substantial glosses by at least two hands, often quoting ‘Hali’ or ‘Haly’ and other authors. The second glossator writes ‘Stelle verificate ad annum domini 1468 (?)’ (f. 60v) and ‘Stelle fixe verificate anno domini 1463’ (f. 61v).

Cracow, Biblioteka Jagiellońska, 595

s. XV^{ex} (1496, cf. colophon). **Or.:** Rome (cf. colophon). **Prov.:** Thomas de Petricovia (professor at the faculty of arts of the University of Cracow 1553–1563 and dean of that faculty 1561–1562); Martinus Nervitius of Kłodawa (master of arts of the University of Cracow) in 1562, cf. inner front cover: ‘Hic liber est communitatis domus maioris a magistro Thoma Petricovio commodato mihi datus 1561’ and ‘Magister Martinus Clodaviensis librum hunc possidet anno domini 1562’ (the latter note has been crossed out).

Paper, 167 f., a single hand.

Ptolemaica (single text), except for ‘Tabula cordarum et arcuum’ (155v–157v). Blank: 1v–11v, 158–167.

Bibl. Wisłocki 1877–1881, I, 188; *CCMM*, IV, 150–51.

12r–155r ‘... sunt. Ad idem denique inconueniens redigemus aduersarium, si quam figuram angularem coelo ascripserit... (in the margin: Conclusio secunda) Terram esse rotundam. Quod sensui videtur spaericum vocare solemus rotundum — quod postremo hoc in theoreummate explorare et cepto labori modum statuere decreuimus. Amen. Finis epitomatis Ioannis de Regio Monte in Almagestum Ptolomei, Sole in 17 parte Librae orizontem in occidente occupante. Romae 1496.’
= **Johannes Regiomontanus**, *Epitome Almagesti* (C.1.21), lacking the preface and the beginning of Book I due to missing folia. I, 12r–22r; II, 22r–34v; III, 34v–49v; IV, 49v–58r; V, 58r–73r; VI, 73r–87r; VII, 87r–93r; VIII, 93v–101r; IX, 101r–113r; X, 113v–123v; XI, 123v–133v; XII, 133v–141r; XIII, 141r–155r. Glosses by the scribe up to f. 47v. Short marginal notes by one or several 16th-c. hands f. 34v, 38r and 102r.

Cracow, Biblioteka Jagiellońska, 601

s. XV² (c. 1473–1474, cf. f. 94r–95r, 157v, 171r). **Or.:** northern Italy. **Prov.:** University of Cracow by the early 16th c., when the MS was glossed by Martinus Biem de Olkusz and Nicolaus de Wieliczka.

Paper, 217 f., one main hand, except for f. 10–16 and 182–211. One or several folia are missing after f. 211.

Astronomy and astrology: table of contents, by Martinus Biem de Olkusz (1r); Sacrobosco, *De sphaera* (10r–16r); table of the seven climates with notes (16v–17r); *Theorica planetarum Gerardi* (18r–26v); **Ptolemaica** (32r–44r); *Capitula Almansoris* (44v–47r); Hermes, *Centiloquium* (47r–48v); ‘Tabula fortunarum et fortitudinem (!) infortunarum et debilitatum planetarum. Fortuna Solis. Si in aspectu fortune vel sibi iunctus...’ (48v–49v); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (50r–50v); Cristannus de Prachaticz, *Compositio astrolabii* (51r–55r); Prophatius Judaeus, *Quadrans novus* (55r–57r); ‘Ad intelligendum circulorum astrolabii...’ (57r); Pseudo-Messahallah, *De compositione astrolabii*, second part (57v–60v); Robertus Anglicus, *Quadrans vetus*, attr. Messahallah (60v–61v); **Ptolemaica** (62r–68v); *Astronomia Ypocratis* (72r–74r); Geoffrey of Meaux, *Compendium astronomie iudicialis* (74v–79r); astrological tables: terms and degrees (82v); Alcabitius, *Introductorius* (83r–94r); ‘Ad cognoscendum orbes magnos qui sunt quedam revolutiones...’ giving 1473 as the present year (94r–95r); Campanus of Novara, *Theorica planetarum* (96r–117r); Pseudo-Thebit Bencora, *De motu octave spere* (117r–118r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (118r–119r); Campanus of Novara, *De sphaera*, excerpts (119r–120v); Peurbach, *Theoricae novae planetarum*, last chapter (120v–121v); table: points of essential dignities of each planet in the 12 signs (121v); astronomical table (122r); Abraham Avenezra, *Principium sapientie*, tr. Pietro d’Abano (124r–149r); Albumasar, *Flores* (150r–157r); Jafar, *De pluviis et ventis*, fragment attr. Albumasar ‘Incipit liber experimentorum eiusdem albumasar. Volens scire naturam aeris in singulis annis...’ (157r–157v); Zael, *Introductorium*, ch. 17 (157v); chronological table ‘usque ad tempus presens, scilicet Christi 1473’ (157v); John of Saxony, *Canones* (162r–168r); star table verified 1436 (168v); circular diagram and table: lunar mansions verified 1460 (169r–169v); star table verified 1440 ‘per Bartolomeum de Manfredis ad meridianum Mantue’ (170r); star table with notes on stars (170v); table: lunar mansions corrected ‘per Adrianum Geeruliet anno omni 1473 completo [1474]’ (171r); **Ptolemaica** (172r–176r); Haly Abenragel, *De iudiciis astrorum*, VIII.1–36, II.42 and V.1–7, end gone (182ra–211vb); Mattheus Moretus de Brixia, *Introductorium in arithmetica ad calculum astronomie* (212r–213v); canons of Alfonsine tables ‘Nunc accedam ad expositionem tabularum Alphon<si>...’ (213v–217r); multiplication table (217v). Blank: f. 1v–9v, 17v, 27–31, 69–71, 79v–82r, 95v, 122v–123v, 149v, 158–161, 171v, 176v–181v (except notes f. 181v).

Bibl. Wisłocki 1877–1881, I, 189; Benjamin/Toomer 1971, 99–104; Rosińska 1984, 553 (index); *CCMM*, IV, 176–92; Lemay 1999, I, 238.

32r–44r ‘<D>ixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur in Quadripartito stelle in hoc seculo... Scientia stellarum ex te et illis. Astrologus non debet rem specialiter sed universaliter... Quod dixit Ptholomeus, ex te et

illis, quod qui res futuras scire desiderat... Dixit Ptholomeus: Mundanorum mutatio ad hoc et ad aliud corporum supercelestium... Doctrina stellarum ex te et ex illis. Est nec doctrina in ea ut propter hanc formam — et ego precor Deum ut te diligat. Et perfecta est huius libri translatio septima die mensis Martii, 12 die mensis Gumedii (?) secundo anno Arabum 532. Stelle cum caudis sunt novem — in regibus et divitibus apparebit etc. Deo laus. Explicit Centiloquium Ptholomei cum commento Haly.’

= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, tr. **Plato of Tivoli (C.3.1.1)**, with the proposition of v. 1 also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 44r (see below). Glosses by Martinus Biem de Olkusz f. 38v, 39v, 40r, 42v.

44r ‘Stelle cum caudis sunt novem — in regibus et divitibus apparebit etc. Deo laus.’

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* above. No glosses.

62r–68v ‘Arismetrika algebra [title added by Martinus Biem de Olkusz]. In tota practica regularum algebre quatuor demonstrationes seu quatuor vocabula communiter habuntur — sive incomplete qui modus idem est cum predicto. Et hec de radicum extractione sufficiant. Finis est.’

= **Giovanni Bianchini, *Flores Almagesti* (C.1.17)**, II. Glosses by Martinus Biem de Olkusz f. 65r, 65v, 66r, 67v, 68r. Gloss by another hand f. 67r.

172r–176r ‘Divisio libri Alarba macalet, id est Quadripartiti, Ptolomei. Capitulum primum tractatus primi seu libri primi Quadripartiti in collectione scientie intellectus iudiciorum astrorum... (chapter index of the four books). (172v) Capitulum primum in collectione intellectus scientie iudiciorum astrorum. Rerum, Iesure, in quibus est pronosticabilis scientie astrorum alias stellarum profectio magnas et precipuas duas esse comprehendimus — secundum qualitatem commixtionem non dubitamus. Capitulum duodecimum in signis fixis et mobilibus et communibus.’

= **Ptolemy, *Quadripartitum***, tr. **Plato of Tivoli (A.2.1)**. I.1–11 and title of I.12. The rest of f. 176r and f. 176v–181v are blank. No glosses, except one by the scribe f. 172v: ‘alathir, id est ether.’

Cracow, Biblioteka Jagiellońska, 618

s. XIV² (c. 1352, cf. note f. 25r: ‘Hic nota quod anno 1351 completo introitus Solis I principium Arietis...’ and f. 64v: ‘Anno Christi 1351 completo introitus Solis in principium Arietis...’, with additions in 1421). **Or.:** Germany (perhaps Magdeburg), copied by one Eber Gogelman, cf. f. 63r: ‘... scriptus per manus Eb<ris> quomodo tu velis etc. Gogelman.’ **Prov.:** in Cracow no later than 1407 (cf. added note f. 64v: ‘Anno Cristi 1407 introitus’); Johannes de Ludzisko,

who added texts on originally blank pages (f. 6^{bisr}–6^{bisv}, 9ra–11vb and 18v–20r) in 1421, cf. f. 9vb: ‘Et sic est finis Canonum eclipsium magistri Dankonis anno domini 1421 feria sexta ad vincula sancti Petri finite et per manus Iohannis de Ludziczsko scripti’; ‘Anno ... (?) 145 ... (?) iste codex comparatus est per me ... (?) Schopps’ (f. Ir).

Paper (except f. 25 and 36, on parchment), I + 64 + I^a f., a single hand (Eber Gogelman), with additions by Johannes de Ludzisko.

Astronomy and astrology: *Theorica planetarum Gerardi* (Iva–3vb); John of Saxony, *Canones* (4ra–8vb), including notes ‘Rursus si equatio prima et secunda fuerint equales...’ added by Johannes de Ludzisko on an inserted sheet of paper of smaller size (6^{bisr}–6^{bisv}); John of Saxony, *Canones eclipsium*, added by Johannes de Ludzisko (9ra–11vb); John of Ligneres, *Canones primi mobilis* (13ra–17vb); ‘De domino anni sunt due oppiniones. Aliqui enim volunt...’ (17vb); table: ‘Tabula ad inveniendum motum Solis et Lune in uno minuto diei’ (18r); lunar tables, added by Johannes de Ludzisko (18v–19r); ‘Declinationem cuiuslibet gradus zodiaci invenire...’, added by Johannes de Ludzisko (19va–20ra); John of Ligneres, ascension table for latitude 51° (23v–24r); ‘Hic nota quod anno Christi 1351 completo introitus Solis principium Arietis...’ (25r); Alfonsine tables (25v–64r); ‘Et quia sepe queritur que hora sit...’ (64va); **Ptolemaica (64va–64vb)**; table: ‘Radices motuum hic positarum ad eram Iesu Christi’ (64vb). Blank: 12, 20v–23r, 24v–25r (except note f. 25r). The inner front cover, f. Ir, f. I^ar–I^av and the inner back cover contain scattered astronomical notes.

Bibl. Wisłocki 1877–1881, I, 194–95; Rosińska 1984, 554 (index); *CCMM*, IV, 318–25; Markowski 1990, 299.

64va–64vb ‘Dixerunt Ptolomeus et Hermes quod locus Lune in hora — et hoc expertus fuit multociens.’
 = **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...***
 (B.5). No glosses.

Cracow, Biblioteka Jagiellońska, 619 [Plate 10]

s. XIV^{ex}–XVⁱⁿ (before 1412). **Or.:** copied in Prague by Johannes Andree Schindel, who glossed the MS and lectured on the *Almagest* from it from 1412 to 1418 (f. 272r: ‘Anno domini 1418, 10 die mensis Iulii circa finem hore 20^e a principio noctis computando, ego Iohannes Andree, arcium magister et medicine doctor, finivi hunc librum Almagesti Ptholomei totum diebus festivis legendo, quem legere inceperam anno domini 1412 in die sancti Martini Prage in scholis medicorum. Et hii fuerunt lectionum auditores plus ceteris solliciti: magister Anthonius de Luna, tunc decanus facultatis arcium, magister Nicolaus de Stoyczin, magister Allexius de Polonia et Stephanus de Sosnyessowicz, arcium et medicine baccalarius. Laus Deo’; f. Iv: horoscope of the beginning of Johannes Schindel’s lectures on the *Almagest*, with note in the central panel: ‘Anno domini 1412 corrente in die sancti Martini [11 November], hora ab inicio noctis 20, 4 minutis, ego *** [Johannes Andree Schindel’s monogram] incepti legere Almagesti Ptholomei diebus festivis in scola medicorum in studio sancto Pragensi, et hec est huius temporis figura’; f. 120r: ‘Hanc dictionem quintam finivi anno domini 1417 corrente 4 die Marcii, que erat quinta feria post invocavit in translacione sancti Wenceslai nostri

patroni sic semper diebus festivis continuando in Praga'; f. 154r: precessional increment for 4 June 1428). **Prov.:** *CCMM*, 329, claims that Alexius de Polonia (one of Schindel's students named above) brought the MS to Cracow, but Georges notes that this claim is unfounded and, in fact, unlikely. The MS was in Cracow no later than 1495, when it was used as a model for the *Almagest* in MS $\neg$ Cracow, BJ, 589.

Paper, I + 282 f., a single neat hand (two hands acc. *CCMM*), decorated initials.

Astronomy and mathematics: scattered notes, including table of contents and bibliographical data on Ptolemy (Iv); notes on triangles missing the beginning (1r–1v); **Ptolemaica** (4r–7r); Campanus of Novara, *De figura sectore* (8v–9v); **Ptolemaica** (10r–272r); Tres Fratres Filii Moysi [Banū Mūsā], *Verba filiorum Moysi filii Sekir* (273r–282v). Blank: 2r–3v, 7v–8r, 272v.

Bibl. Wiśłocki 1877–1881, I, 195; Rosińska 1984, 554 (index); *CCMM*, IV, 325–29; Kunitzsch 1986–1991, II, 13; Georges (forthcoming).

4r–7r 'Equator diei est circulus maior qui describitur supra duos polos mundi — aut propinqui oppo<sici>oni Solis erunt retrogradi. Explicit Thebit de hiis que indigent expositione antequam legatur Almagesti et dicitur equator diei.'

= Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). A few short marginal notes by Johannes Andree Schindel.

10r–272r 'Quidam princeps nomine Albuguafe in libro suo quem scienciarum electionem et verborum nominavit... (11r) Bonum fuit scire quod a sapientibus non deviantibus visum est — et abbreviacionem, arroganciam et collaudacionem, tunc iam sequitur et honestum est ut hic ponamus finem libro. Expleta est diccio 13 libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Laus Deo. Amen.' (Added by the scribe: 'Correctus secundum exemplar').

= Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2), Class A. Preface, 10r–10v; I, 11r–28r; II, 28r–53r; III, 53r–70r; IV, 70r–93v; V, 93v–120r; VI, 120r–144v; VII, 144v–162v; VIII, 163r–179r; IX, 179r–200v; X, 200v–216r; XI, 216r–238r; XII, 238r–254v; XIII, 254v–272r. F. 152 should follow f. 143. Numerous substantial glosses throughout, by Johannes Andree Schindel. Some of these glosses include sections of the *Almagesti minor* (C.1.4), here attributed to 'Albertus Magnus' (on these glosses, see Zepeda 2018, 103–04).

Cracow, Biblioteka Jagiellońska, 793

s. XV² (f. 107v–109v copied in 1459, cf. f. 109v: 'Explicit astronomia Ipocratis medicorum principis 1459'; the watermarks point to 1457–1470 for the whole MS, see *CCMM*, 135). **Or.:** University of Cracow, possibly copied under the supervision of Petrus Gaszowiec, dean of the faculty of medicine in 1459 and 1462 (see *CCMM*, 136; Láng, 251–52).

Paper, 199 f., several hands.

Astrology, astral magic, divination and natural philosophy: Alubater, *De nativitatibus*, beginning gone due to one missing folio (1r–33v); ‘Alter tractatus multum utilis de nativitatibus. Doctrinam nativitatum que est ars docens contingentia nati ab eo tempore quo...’ (33v–42r); Guillelmus Anglicus, *De urina non visa* (44r–46r); ‘Si in principio egritudinis hora in qua ponit se in lecto...’ (46v–47v); Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. ‘Hali’ (47v–48v); ‘Nunc de potestate planetarum tractare incipiamus et signorum, et prius de formis signorum...’ (48v–50r); ‘Qui cursum Lune recte scire desiderat, sciat primo quomodo...’ (50r–51r); ‘De signis conversivis mobilibus. Signa tropica sunt quatuor...’ (51r–51v); ‘Capitulum de naturis et numero planetarum. Quousque de 12 partibus celi compendiose...’ (51v–52r); ‘De quadam divisione signorum. Ex ipsis 12 signis, ut conveniens astrologorum autoritas...’ (52r–53r); Albumasar, *De electionibus liber*, incomplete (53v–59r); *Figure septem planetarum* ‘Figura Saturni quadrata est super tria multiplicata per tria...’ (60r–61r); Thebit Bencora, *De imaginibus* (61r–63r); ‘De Leonis sigillo mirabilium proprietatum. Ego Albertus commentator in omni experientia expertus...’ (63r–63v); ‘Hermes Trimegistus commemorat in libro suo de ymaginibus quod sic fit ad calculum. Recipe aurum purum et fac sigillum...’ (63v); ‘Questiones artis geomancie. De brevi vita vel longa. 1. Geboa...’ (63v–73v); *Prognostica Socratis Basilei* (73v–81r); *Sortes Albedaci* (81r–85v); sphere of Apuleius/Pythagoras (86r–86v); *Sortes regis Amalrici* (87v–103v); tables of equations of houses for latitude 50° (105r–106v); *Astronomia Ypocratis* (107v–109v); Alkindi, *De mutatione temporum* (109v–115v); ‘Nota quod pars pluvie seu dispositio diei...’ (115v); table of lunar mansions (116r–116v); Petrus Gaszowiec, *De mutatione aeris*, incomplete (116v–120v); ‘De nonnullis experimentis iocosis item sequitur veris. Et primo si vis habere scripturam in aliqua corporis parte...’ (121v); Johannes de Rupescissa, *De consideratione quinte essentie* (127r–138r); ‘De aqua ardenti generaliter sequitur. Item aqua ardens solet vocari aqua vitis vel aqua viva...’ (138r); **Ptolemaica (139r–139v)**; Azareus, *De lapidibus*, attr. Ptolemy: ‘Incipit Ptholomei de lapidibus et sigillis. Regi Ptholomeo rex Azareus de lapidibus... Hec etiam sunt de Ptholomeo extracta’ (139v–140v); ‘Ad mollificandum lapides ita ut quasi cera...’ (140v); Thebit Bencora, *De imaginibus* (140v–143v); Pseudo-Albertus Magnus, *Liber aggregationis*, incomplete (143v–148v); Hermes, *Centiloquium* (149r–151r); Bethen, *Centiloquium* (151r–152v); Leopold of Austria, *De astrorum scientia*, excerpt from Book VI ‘De mutatione aeris. De mutatione aeris prescire intendens...’ (153r); ‘Sequitur alius tractatus. Partes signorum humide sunt finis Arietis et principium Tauri...’ (153r–154r); ‘Sequitur alius tractatus. Sentencia libri iudicorum quem dixit Massalach inventum esse inter thesaurum regum...’ (154r–154v); ‘Qualiter pestilentia nascitur ex intemperantia planetarum. Pestilentia nascitur in aere vel siccitate...’ (154v–155r); Petrus Gaszowiec, *De mutatione aeris*, excerpt (155r–156r); Robert Grosseteste (?), *De impressionibus aeris*, excerpt (156r–156v); Messahallah, *De revolutionibus annorum mundi*, incomplete (157r–158r); Raymond of Marseille, *Liber iudiciorum*, excerpt ‘Sequitur aliud. Si quis a te percunctari volens ingressus fuerit hora Solis prima tertia, scias quod agere tecum...’ (158r–158v); ‘Si noscere volueris ex parte planetarum quid aliquid clausum in manu sua fert...’ (158v); ‘Sequitur de coniunctionibus. Notandum quod duplex est coniunctio planetarum...’ (158v–160r); ‘Aries est signum mobile. Cum Luna fuerit in eo, est bonum se muttare (!) de loco ad locum...’ (160r–161r); ‘Qui cursum planetarum scire voluerit sciat primitus quando Sol per signa vadit...’ (165r–167v); ‘Hic tractatus est de quatuor complexionibus hominum omnium in mundo existentium...’ (167v–169v); *Picatrix*, I–II.11 (171r–197r). Blank: 42v–43v, 59v, 87r, 104, 107r, 121r, 122–126, 138v, 161v–164v, 170, 197v–199v.

Bibl. Wisłocki 1877–1881, I, 235–36; Rosińska 1984, 554 (index); Pingree 1986, xvii; Markowski 1990, 299; *CCMM*, VI, 120–37; Láng 2008, 251–52 and 320–22; Moulinier-Brogi 2011, 209–10.

139r–139v ‘Incipiunt aliqua extracta de imaginibus Ptholomei per duodecim signa zodiaci. Dixit Abilzabezben Felix: Omnes orientales operabuntur per has II imagines — animo caute procedere ne fides violetur.’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, selection of 12 chapters. No glosses.

Cracow, Biblioteka Jagiellońska, 805

s. XV¹ (except for f. 405–415, from the late-14th c., 1399 for f. 414–415; the MS as a whole is often dated to the 14th c., but wrongly so). **Or.:** University of Cracow. F. 414v–415r are in the hand of Johannes de Saccis of Pavia (d. 1433/1434), who became rector of the University of Cracow in 1425 and dean of the faculty of medicine in 1432/1433. He may be responsible, perhaps together with Andreas Grzymala (see Prov.), for assembling the MS. **Prov.:** Andreas Grzymala of Poznań, student of Johannes de Saccis and professor at the University of Cracow (d. 1466), cf. Iv: ‘Magistri An<dree> Grzymala venalis pro 4 florenis, adminus pro tribus’ and table of contents of the MS in the same hand; Jan Oswiecim, professor of theology at the University of Cracow (d. 1488), who bequeathed the MS to the university, cf. f. Iv: ‘Legatus per magistrum Iohannem de Oszwyaczym, professorem sacre theologie et custodem sancti Floriani pro libraria artistarum maioris domus eorundem.’

Paper, I + 486 f. (new foliation in pencil), several contemporary hands, of which one copied f. 335–382 and another f. 392–401. At least one folio is missing after f. 382.

Collection of medical treatises (full description in *CCMM*), except for f. 335–415, devoted to astrology, medicine and astronomy: Zael, *Liber iudiciorum* (335ra–358vb: *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*); ‘Incipit abbreviatio eiusdem. Scito quod 12 sunt signa: Aries, Tha<urus>...’ (358vb–360rb); ***Ptolemaica* (360va–360vb)**; Gentile da Foligno, *De venenis et morsu venenosi surdi* (360vb–361rb); ‘Incipit anothomia (!) bona et utilis. Testatur Galienus in Tegni...’ (361va–367va); ‘Sequitur de balneis naturalibus...’ (367va–367vb); Petrus Hispanus, *Thesaurus pauperum* (368ra–371vb); Alcabitius, *Introductorius*, end gone (372ra–382vb); Hermes, *Centiloquium* (392ra–393va); ***Ptolemaica* (393va–396va)**; Bethen, *Centiloquium* (396va–398rb); *Liber de effectibus planetarum* ‘Incipit tractatus de planetis. Sapientibus habere fructum planetarum primo oportet scire quis ordo ipsorum sit...’ (398rb–400rb); ‘Triplex est regio: celestis, elementaris et humani corporis...’ (400rb–401vb); ‘Celum autem consequentium recte philozophancium... Et sic est finis canonum principalium astrolabii sperici’ (401vb–404vb); geomancy ‘Via significat motum in omni re mendicos et egenos...’ (405r–409v); Johannes de Saccis of Pavia (?), horoscopes of the conception and nativity of Elisabeth Bonifacia, daughter of Queen Jadwiga of Poland, born on 22 June 1399, with notes (414v–415r); syzygy tables for 1379–1380 (415v). Blank: 311–334, 383–391, 410r–414r.

Bibl. Wisłocki 1877–1881, I, 238; Rosińska 1984, 554 (index); Markowski 1990, 299; *CCMM*, VI, 178–88; Lemay 1999, I, 238; Láng 2008, 252–53 and 322.

- 360va–360vb ‘De stellis caudatis [title added in upper margin by another hand]. <D>ixit Ptolomeus quod stelle cum caudis sunt novem — in regibus et divitibus apparebit, nova cenaculum dicitur.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.
- 393va–396va ‘Incipit Centiloquium Ptolomei. (393vb) <D>ixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc et sunt... Verbum primum. <S>cientia stellarum et ex te et illis stellis — ex aliqua civitate eiusdem climatis. Explicit Centiloquium Ptolomei.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, without the commentary. No glosses.

Cracow, Biblioteka Jagiellońska, 1839

s. XVIⁱⁿ (f. 54v–79r, 104r–108v and 109v–152r copied in 1506; f. 156r–163v copied in 1511). **Or.:** personal notebook of a student at the University of Cracow, who attended the lectures of Matthias de Krajna in 1506, namely on the *Centiloquium* (f. 54v–79r, cf. colophon f. 79r), on Book IV of Johannes de Glogovia’s *Summa astrologie* (f. 104v–108v, cf. f. 108v: ‘Sub magistro Mathia de Crayna 1506 post conductum Pasce’) and on Johannes Ganivet’s *Amicus medicorum* (f. 109v–152r, cf. f. 152r: ‘Finis 1506 sub magistro Mathia de Crayna exaudibus’). The other texts accompanied by a marginal commentary are likely to derive from lectures as well.

Paper, 176 f. (new foliation in pencil, which replaces the old pagination used by Rosińska and Markowski), including smaller sheets of paper (f. 3, 11, 13–14, 18–21, 23–24, 26–27, 29, 31, 36, 38, 43, 51, 53, 55, 57, 60–62, 100, 171), one main hand (except for f. 1r, 90r–92r, 156r–163v and 165r–173v, copied by several other hands), although a second hand may have intervened in places, alternating with the main scribe (e.g., f. 76r–76v and 78r).

Astrology: ‘Circa caput quintum regule Solis doctoris Michaelis Wratista<viensis> [Michael Falkener of Wrocław, *fl.* 1494–1521]...’ (1r, added); ***Ptolemaica* (1v–52v)**; ‘Duodecim domos celi in horizonte si vis invenire...’ (53r); horoscope ‘Figura nati anno 1452...’, which turns out to be the nativity of Nicolaus Czepel of Poznań, born on 6 December 1452 (53v); ‘Aspectus sunt quatuor, scilicet trinus, quartus, sextilis...’ (54r); ***Ptolemaica* (54v–79r + 54r, 79v–81va; 81v–82r; and 82va–82vb + 89ra–89va)**; ‘Pars fortune dupliciter accipitur, uno modo secundum Ptolomeum, quem modum omnes astrologi sequuntur...’ (83r); excerpts from Zael’s *Introductorium* (ch. 1), *Capitula Almansoris* (ch. 106) and Hermes’s *Centiloquium* (chs 9 and 65) (83r); ‘Tractatus pro determinandis questionibus furti, collectus ex doctrina Hali Habenragel et Guidonis Bonati. In questionibus astrologicis licet sit diversa consideratio...’ (83v–88r); ‘Astronomia est scientia Solis et Lune necnon quinque stellarum erraticarum...’ (88v); notes ‘Sequuntur regulae additionis, quae observantur circa res astronomicas...’ (90r–92r); Johannes de Glogovia, *Introductorium astronomie in ephemerides*, with marginal comm. (95r–102r); Johannes de Glogovia, *Summa astrologie*, Book IV, with marginal comm. (104r–108v); Johannes Ganivet, *Amicus medicorum*, with marginal comm. (109v–152r); Johannes de Glogovia, *Introductorium astronomie in ephemerides*, with marginal comm. (153v–155v); ‘Pro magistrando in die Aristotelis anno domini 1511. In nomine domini amen. Rerum,

Iesure, in quibus est pronosticabilis...' (156r–163v); prognostication for 1496 (165r–166r); Johannes Stercz, prognostication for 1467 (166v–168v); Johannes Stercz, judgement on the solar eclipse of 1463 (168v–169v); horoscope of the solar eclipse of 22 December 1489 with note 'Die 22 Decembris ante Solis ortum, 43 minutis...' (172r–172v); judgement on the nativity of Henry I the Elder, duke of Münsterberg-Oels (172v–173v). Blank: 92v–94v, 109r, 152v–153r, 164r–164v, 171v, 174r–176v.

Bibl. Wiśłocki 1877–1881, I, 435; Rosińska 1984, 554 (index); Markowski 1990, 300.

1v–52v '[COMM.] Iste totalis liber Ptolomei Pheludiani dividitur in quatuor partes principales. In prima posuit regulas introductorias... (2r) [TEXT] Res, o Mizori, quibus perficiuntur prognosticationes accepte de astronomia maiores et nobiliores — usque ad locum anteriorem secundum tempora, que transeunt per illum...'

= *Commentum Cracoviense in Quadripartitum a. 1505–1507* (C.2.13). Book I, 2r–37v; III, 39r–52v (up to the middle of III.11, where the text breaks off mid-sentence at the bottom of the page). Books II and IV are entirely missing. Substantial glosses throughout, which form the body of the commentary.

54v–79r
(and 54r,
79v–81va) 'Incipit liber centum verborum Ptholomei cum comento Hali Rodham. Dixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est... Expositio Hali super verbo primo Ptolomei. Quod dixit Ptholomeus, ex te et ex illis, significat qui res futuras... (56r) Dixit Ptolomeus: Mundanorum mutatio ad hoc et ad aliud corporum supercelestium... Doctrina stellarum ex te et ex illis est. Nec est doctrina in ea ut propter hanc formam — et ego Deum precor ut te diligat quomniam perfecta est huius libri translatio decima septima die mensis Martii, 12 die mensis Gumedi anno Arabum quingentesimo tricesimo. Finis huius hora tertia 15 die Ianuarii 1506, continuatum sub egregio preceptore Mathia de Crayna.'

= **Matthias de Krajna**, *Lectiones in Centiloquium* (C.3.20). The source text, copied in the centre of the page, is Plato of Tivoli's translation (C.3.1.1), with the proposition of v. 1 also given in the 'Mundanorum' version (C.3.1.3) and in Adelard of Bath's translation (B.1.1) (= 'threefold' version). Substantial interlinear and marginal glosses by the scribe reflecting Matthias de Krajna's lectures, at least in part, and whose beginning occurs on the top left corner of f. 54v: 'Dicitur etiam hic liber Liber fructuum quia sicut fructus est...'. The glosses also include a selection of *verba* in George of Trebizond's translation (for which see below f. 82va–82vb and 89ra–89va) labelled 'alia translatio', starting with v. 2 on f. 55r: 'Alia translatio istius secundi verbi est talis: Quando qui deliberat querit...'. Further material, definitely Ptolemaic and possibly related to Matthias de Krajna's lectures, is found elsewhere in the MS, namely (1) a commentary on v. 25 on f. 54r ('Circa verbum 25. Significator est locus aliquis habens significationem super aliquam proprietatem circa natum accidentem — est ille est motus primi

mobilis qu... (?)', seems incomplete); (2) a commentary on v. 51 in George of Trebizond's translation on f. 79v ('[TEXT] Verbum quinquagesimum primum alterius translationis, dicit: Ubi est Luna in tempore nativitatis illud signum in conceptione... [COMM.] Ubi est Luna est (?) apertus clarusque per seipsum amphorismus — domus prime positus. Hec ille'); (3) a text on rectification based on Ptolemy and other authors on f. 80r ('De rectificatione nativitatum estimatarum apud astrologos diverse, quin ymo adverse, leguntur sententie. Quidam enim summi Ptolomei tercio Quadrupartiti sequuntur sententiam, alii autem antiqui Hermetis, alii Abrabam — angulum coniunctionis vel oppositionis ante nativitatem. Finis', end copied at the bottom of f. 79v); (4) a complete list of the *verba* of the *Centiloquium* arranged by subject on f. 80va–81va ('Secuntur tituli centum verborum Ptolomei, quique suam materiam continuantes et non vero ordine positi...').

- 81v–82r ' (82r) Declaratio precedentis figure. Quod Ptolomeus intendit primum de angulis quadrati conclusi intra circulum directum — Nam figura sedecim laterum claudit in se nedum quadratum verum et octogonium. Hec in explanatione verbi 60 Pto<lomeus> do<cuit>. Telos. In corpore quidem egroto continue fit repugnantia morbi — hec omnia <in> figura infra scripta clare patebunt' (followed by a table and preceded, on f. 81v, by the figure 'Circulus concludens figuram quadratam octogonam seu octo laterum et sexdecim laterum').
= **Matthias de Krajna** (?), *Commentum in verbum 60 Centiloqui* (C.3.21). No glosses.
- 82va–82vb, 89ra–89va stellarum abs te et a scientia est, non est enim possibile ut huius scientie professor particulares rerum ideas prevideat — et ab ingressu planete in proprium locum.'
= **George of Trebizond**, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11), v. 1–81, without George of Trebizond's preface and commentary. The scribe interrupted his copy at the end of v. 81, leaving the rest of the column and f. 89vb blank. No glosses.

Cracow, Biblioteka Jagiellońska, 1846

s. XVIⁱⁿ (partly copied in 1511, cf. tables pp. 253–272 and colophon p. 282, this date probably applies at least to pp. 272–334, copied in the same hand; there are no reasons to date parts of this MS to 1482, as Wisłocki and Markowski do). **Or.:** University of Cracow, partly copied by Jacob of Sierpc, cf. p. 282: 'Et finis in domo maioris Collegii artistarum anno domini 1511, die Veneris, hora XX Novembris per me Iacobum baccalarium de Syepcz...' and p. 330: 'per manus Iacobi de Syepcz de Mesopotamia scriptus canon iste, finitus in octava Assumptionis Marie...'. **Prov.:** Jacob of Sierpc (cf. p. 2: 'Iste liber est magistri Iacobi de Szyepcz'), who annotated the MS until at least 1523 (cf. p. 201).

Paper, 352 pp., at least three hands, one of which (Jacob of Sierpc's) copied at least pp. 272–334 (except perhaps for the tables).

Astronomy and astrology: *Tabule resolute* (1–148); fragments of astronomical tables (149–150); astronomical calendar 1501–1582 (153–156); Albertus de Brudzewo, *Canones Tabularum resolutarum* (157–196); other astronomical tables, canons and notes (197–201); Johannes de Glogovia, *Canones Tabularum resolutarum* 'Pro generali in tabulas motuum planetarum...' (203–227); table of houses (229–252); tables of houses for Cracow with canons, dated 1511: 'Tabule duodecim domorum celi a magistro Brudzan super meridiem (!) Craco<viensem> anno domini 1511' (253–272); other astronomical tables with notes (273–276); astrology 'Inquit Hali Habenragel in libro suo completo parte quarta capitulo tertio...' (277–282); astronomical tables (283–285); astrology 'An per luminaria poterint rectificari figure geniturarum. Ptolomeus in secundo ubi tractat de dominis eclipsium...' (286); **Ptolemaica** (287–288); Messahallah, *Liber interpretationum*, ch. 6 'Tractatulus Dorothei in occultis pro thezauro...' (288–289); various astronomical and astrological tables with some canons and notes (290–334); other tables and notes (339, 341–342 and 351). Blank: 151–152, 202, 228 (except added notes), 335–338, 340, 343–350, 352.

Bibl. Wisłocki 1877–1881, I, 435; Rosińska 1984, 554 (index); Markowski 1990, 301–02.

287–288 'Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare oportet et esus (?). Sit tempus datum geniture cuiuspiam in anno, die, horaque — figura celi constituatur et habebitur totaliter rectificata.'
 = **Albertus de Brudzewo** (?), *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17). Glosses by the scribe (Jacob of Sierpc).

Cracow, Biblioteka Jagiellońska, 1856

s. XVIⁱⁿ (pp. 189–333 were copied in 1509–1511, cf. p. 213: 'Finis corrector laudetur, 1509'; p. 320: '1510, die dominica post Francisci Seraphici'; p. 333: 'Et hec sufficiant, 1511'; Markowski, 210 and 302, dates pp. 335–438 to c. 1533). **Or.:** probably the University of Cracow. **Prov.:** 'Nicolaus Sklarski Andreae Urzedoviensi d. d. anno 1562' (inner back cover); 'Andreas Burkovius ab Urzedow' (inner front cover).

Paper, 446 pp., several hands.

Astrology: 'Liber Iohannis Egidii in iudiciis astrorum abbreviatus compendiose. Spera octava est stellata de multis stellis fixis...' (1–154); anthology of elections 'Electiones in quibusvis operibus. Hali libro 1, capitulo 34. Si volueris scire si empta habuerit...' (165–188); Girolamo Manfredi, *Centiloquium de infirmis et medicis* (189–213); Nicolaus de Dacia, *Liber anaglypharum astronomie*, Book V (215–273); *Tractatus de scientia nativitatium* 'Canon primus ostendens invenire gradum ascendentem alicuius nativitatis humane...' (279–320), including **Ptolemaica** (279–80) as opening chapter; Albertus de Brudzewo, judgement on a nativity of 6 April 1445 (321–333); 'Omnium hominum

qui nascuntur quadrupliciter subdemus divisionem...' (335–438). Blank: 155–164, 214, 274–278, 334, 439–446.

Bibl. Wiśłocki 1877–1881, I, 442; Rosińska 1984, 554 (index); Markowski 1990, 302.

279–280 'Ad inveniendum gradum ascendentem tempore nativitatis qui potest inveniri per animodar... Circulum pro exitu geniture ab utero iuxta verbum Pth<olomei> 51 rectificare. Sit tempus datum — illum tota figura rectificanda est in tempore.'

= **Albertus de Brudzewo (?)**, *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17). One marginal notes by the scribe p. 280.

Cracow, Biblioteka Jagiellońska, 1857

s. XV² (possibly as early as c. 1450 for the Ptolemaic section). **Or.:** University of Cracow.

Paper, 178 pp., one main hand or perhaps several similar hands.

Astrology and astronomy: Alcabitus, *Introductorius*, I.1–74 (1–24); 'Hec est distancia luminaris ab equinocciali...' (25); 'Ad inveniendum gradum ascendentem in quacumque die vel hora...' (26); astronomical tables, incompletely filled (27–43); 'Ad inveniendum quantitatem diei...' (44); Georgius Kotermak de Drohobycz (Georgius de Russia), *Collecta super iudicium in eclipsibus* (45–69); **Ptolemaica** (71–128); 'De elevationibus planetarum. Elevationes planetarum de quibus immediate traditur modus...' (129–130); 'Extracta de tractatu Romani in maiisterio iuditorum. Profectus planete dicitur cum fuerit in aliquo angulorum...' (130–132); astrological chapters 'Verbum decimum. Prima in libro duarum scienciarum pars interrogacionum docet iudicare de re de qua facta fuerat interrogacio cum intencione radicali...' (134–139); Alkindi, *De mutatione temporum* (141–159); Robert Grosseteste (?), *De impressionibus aeris*, fragment 'Cum dispositionem aeris ad certum terminum pronosticare volueris...' (160–161); 'De stellis fixis pluvialibus. Orion est astrum tempore yemali exortum...' (162); tables: geographical coordinates of cities (163–174). Blank: 68, 70, 133, 140, 175–178 (except for notes p. 177).

Bibl. Wiśłocki 1877–1881, I, 442; Rosińska 1984, 554–55 (index); Markowski 1990, 302; Lemay 1999, I, 338.

71–128 ' <G>loriosus reor zonas intueri mundiales a limitibus altis divino afflatu in vere officinam mundi inferioris radiantes... (72) In nomine Ihesu. Circa prohemium Centum verborum dum dicit: Mundanorum mutacio etc. Al<bertus> Magnus in Libro de fato talem mutacionem dicit formam ordinis esse... (75) <M>undanorum ad hoc vel ad illud mutacio corporum celestium mutatione... Dicit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... (76) Verbum primum. <S>ciencia stellarum ex te et ex illis. Astrologus autem non debet dicere rem specialiter sed universaliter... Hali: Quod dixit Pto<lome>us, ex te et ex illis, significavit (?) quod qui res futuras prenoscere desiderat — (126) ex aqua (!) civitatum eiusdem climatis. Prima expositio Hali. Ptholomeus dixit quod stelle cum

caudis sunt novem — (127) in regibus et divitibus apparebit. Aliud comentum alie translacionis. Iam patefecit Aristoteles in libro de operacionibus altis quod vapores arida — tunc in Egipto quicquid dixit Ptholomeus. Et est finis. Alia translatio: Dixerunt Ptholomeus et Hermis (!) quod locus Lune in hora in qua quis acipitur est gradus ascendentis nativitatis et in loco qui erat ascendens nativitatis fuit Luna infusionis spermatis. Hoc est quod ego malui de exposicione huius libri — et ego Deum precor ut te dirigat.’

= **Andreas Grzymala, *(Commentum in Centiloquium)* (C.3.9)**. Preface, 71; introduction, 72–74; the rest, 75–128, consisting of the *Centiloquium* (proposition and Abuiafar’s commentary) in Plato of Tivoli’s translation (C.3.1.1), with large margins containing two distinct items: (1) the propositions ‘Mundanorum 1’ of the ‘Mundanorum’ version (C.3.1.3) introduced by ‘Alia translatio’, and (2) Andreas Grzymala’s commentary, but the latter does not go beyond v. 20 (p. 85) and the margins of the following pages only include the ‘alia translatio’. The text and the marginal notes are all in the same hand, with the possible exceptions of some glosses added later (e.g. p. 77). The text of the *Centiloquium* opens (75) with the proposition of v. 1 in the ‘Mundanorum’ version and the sequence of chapters at the end is as follows: proposition of v. 100, 125–126; Pseudo-Ptolemy’s *De cometis* (B.4), here considered to be Haly’s commentary on v. 100, 126–127; commentary on v. 100, 127–128; Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5), first sentence only, 128; last paragraph, 128. The same organisation of the *Centiloquium* is found in three other MSS which do not have Andreas Grzymala’s commentary: ↯Cracow, BJ, 1859; ↯Oxford, CCC, 101; and ↯Warsaw, BN, Rps 12634 II.

Cracow, Biblioteka Jagiellońska, 1859 [Plate 13]

s. XV^{med} (1447 for f. 41r–56r and probably for most of the first part of the MS up to f. 185r; 1471 for f. 185v–205v). **Or.:** personal notebook of Albertus de Magna Opatow when he was a student at the University of Cracow, cf. f. 56r: ‘Explicit Nova compilatio algorismi minutiarum per me Albertum de Magna Oppatow anno domini M^oCCCC^oXLVII^o in bursa divitum in vigilia Assumptionis Marie, edita per maistrum Martinum Polonum [Martinus Krol de Zurawica]’; f. 185v–205v were copied by one Wenceslas, cf. colophon f. 205v.

Paper, 206 f., two main hands: I (Albertus de Magna Opatow) for most of the first part of the MS up to f. 185r, with intervention of other hands in places; II (Wenceslas) for f. 185v–205v.

Astrology, astronomy, arithmetic, geometry and music: ‘Cum vis scire loca trium superiorum planetarum...’ (1r); ‘Dicit Gwido interrogantem astrologum de aliqua re quamquam plures considerationes...’ (1v–2v); ‘Musica secundum Bohecium sic diffinitur...’ (3r–13r); ‘Sicut dicit Guido Bonatus, oportet considerare loca Solis, situs, tempora...’ (13v–16v); ‘Ex quo manedit (?) cognoscendi quantitatem temporis vite...’ (16v–17r); ‘Quando vis sanguinem minuere, pone Lunam in Libra vel Ariete...’ (17v–19v); ‘Si quis de furto comisso utrum recuperatur res furti ablati vel non ad te accesserit...’ (20r–22r); ‘Capitulum de scientia furis. Albumazar fecit longum sermonem de hoc quod dictum est supra de qualitate rerum...’ (22v–24r); ‘Sunt

aliqui homines qui fingunt se amicos aliorum...' (24v); 'Si autem a te quesierit aliquis de aliqua re quam voluerit tibi patefacere...' (24v); 'Cum interrogatus fueris ab aliquo viro...' (25r–26v); Cristannus de Prachaticz, *Usus astrolabii*, attr. Ptolemy 'Et sic est finis canonum super astrolabium Ptolomei' (27r–34v); Cristannus de Prachaticz, *Compositio astrolabii* (34v–40v); Martinus Krol de Zurawica, *Algorismus minutiarum* 'Modum arismetarum gnaro intuit sub tropicis...' (41r–56r); 'Ascendens mundi est primus gradus Cancr et tunc primus Arietis...' (56v–57v); 'Volens scire naturam aeris in singulis annis, considera coniunctionem vel oppositionem Solis et Lune...' (58r); astronomical notes (59r); 'Tempora flebotomie invenire. Sciendum est quod duplex est tempus flebotomie, puta necessitatis et electionis...' (59v–64v); **Ptolemaica (65r–138r)**; Euclid, *Elementa*, ed. Campanus of Novara, Books I–III (139v–172v); 'Necessarium esse existimavimus circa ipsa nomina...' (174r–174v); Thomas Bradwardine, *Geometria speculativa*, incomplete (175r–185r); **Ptolemaica (185v–205v)**; notes on music and astronomy (206r–206v). Blank: 58v, 139r, 173r–173v.

Bibl. Wiśłocki 1877–1881, I, 442–43; Rosińska 1984, 555 (index); Markowski 1990, 303; Lemay 1999, I, 238–39.

65r–138r 'Principiatur thema egregii Hali super Quadripartitum sapientissimi Ptolomei in quo textualiter vademus in prologo et sequitur thema in hec verba, unde dicit Egidius: Scire aliquid laus est... Res, o Mizori, quibus perficiuntur prenosticationes accepte de astronomia, maiores et nobiliores sunt due. Hali glozat "o Mizori" id est "o mi domine" — ut finem libro imponemus. Pro quo ait Deus benedictus in secula seculorum. Amen.'
= **Albertus de Magna Opatow (?)**, *Commentum in Quadripartitum* (C.2.6). Book I, 65r–86v; II, 86v–102v; III, 103r–126v; IV, 127r–138v. Ptolemy's text has been copied in the centre of the page and the commentary in the margins.

185v–205v '<M>undanorum ad hoc vel ad illud mutatio corporum celestium... Dixit Ptolomeus: (186r) Iam scripsi tibi, Iesure, libro libros (!) de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est. Astrologus non debet dicere rem specialiter... Hali: Quod dixit Ptolomeus, ex te et ex illis, significat qui res futuras prenoscere prescire desiderat — (204v) ex aliqua civitatum eiusdem climatis. Hali: Ptolomeus dixit quod stelle cum caudis sunt 9 — (205r) in regibus et divitibus apparebit. Aliud comentum in alia translatione. Iam patefecit Aristotiles in libro — acciditque tunc in Egipto quicquid dixit Ptolomeus. Alia translatio. Dixerunt Ptolomeus et Hermes quod locus Lune — et hoc fuit expertum. Conclusio Hali. Hoc est quod ego malui de expositione — et ego Deum precor ut te diligat. Et perfecta est huius libri translatio ... (?) die mensis Martii, XII die mensis Gumedii secundi anno Arabum. Explicit Centiloquium Ptolomei Phelubensis (!) per manus cuiusdam Venczeslai et est finitum feria secunda in vigilia Natalis domini anno domini 1471, Astitumbav (?) etc.'

= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, tr. **Plato of Tivoli (C.3.1.1)**, opening with the proposition of v. 1 in the 'Mundanorum' version (C.3.1.3). The sequence of chapters at the end is as

follows: proposition of v. 100, 204r–204v; Pseudo-Ptolemy's *De cometis* (B.4), attr. Hali, 204v–205r (see below); commentary on v. 100, 205r; Pseudo-Ptolemy's *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5), 205r–205v (see below); last paragraph, 205v. No glosses.

- 204v–205r 'Hali: Ptolomeus dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**, attr. Hali, as part of the *Centiloquium* (see above). No glosses.
- 205r–205v 'Alia translatio. Dixerunt Ptolomeus et Hermes quod locus Lune — et hoc fuit expertum.'
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). No glosses.

Cracow, Biblioteka Jagiellońska, 1862

s. XV^{ex} (1491, cf. p. 555: 'Deo gracias. 1491'). **Or.:** probably the University of Cracow.

Paper, 556 pp., several hands.

Astrology: incomplete table of contents (inner front cover); ***Ptolemaica* (1–75)**; *Tractatus de scientia nativitatum* 'Scientia ipsa me ostendente nativitatum est que ex figura nativitatis hominis sibi et suos eventus futuros prenoscit. Habita enim configuratione celi...' (81–120); 'Luna domina etatis prime scilicet infantie...' (120–121); Michael de Kepfira, *De nativitatibus* (129–172); Pseudo-John of Seville, *Epitome totius astrologie* (177–245); Alubater, *De nativitatibus* (249–351); Albumasar, *De revolutionibus annorum mundi* (365–407); 'Motus 8 sperarum currit annuatim 30 secunda...' (407–408); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, Book VIII (409–555). Blank: 76–80, 122–128, 173–176, 246–248, 352–364, 556.

Bibl. Wiślocki 1877–1881, I, 444–45; Rosińska 1984, 555 (index); Markowski 1990, 303.

- 1–75 'Secundus liber quadrup<ar>titi Ptolomei. ene sufficit nobis id quod universaliter sumus locuti super his in quibus homo debet inspicere — (74) Et postquam in universali modo perfecimus iudicium nativitatum finem in hoc loco huic libro imponere conveniens estimemus. Finis Deo coadiuvante.'
= **Haly Abenrudian, *Glosa super Quadripartito Ptholomei* (C.2.2)**, Books II–IV, without Haly's commentary. II, 1–19; III, 19–56; IV, 56–74. Substantial glosses by the scribe throughout (often more important than the text), which Markowski calls 'Expositio Cracoviensis Quadripartiti Claudii Ptolomaei.' These glosses end on p. 75.

Cracow, Biblioteka Jagiellońska, 1864

s. XV^{med} (1446 for f. 1r–16r). **Or.:** University of Cracow, f. 1r–16r copied by Nicolaus of Tarnava (f. 16r: ‘Finis huius... anno domini M^oCCCCXL^oVI^o per me Nicolaum de Ternava studentem alme universitatis Cracoviensis’).

Paper, II+110+I^a f., several hands, one of which copied f. 107v–110r.

Astronomy and astrology: scattered astronomical notes and contents of the MS (Iv–IIr); *Theorica planetarum Gerardi* (1r–16r); Albertus de Brudzewo, *Canones Tabularum resolutarum* (16v–19v, 23v, 110v and I^ar); ‘Tabula sequens est de accensione Lune...’ (20r), with tables (20r–23r); Andreas Grzymala, *Canones Tabularum resolutarum* (24r–35v); *Tabule resolute* (36r–107r); star tables (107v–108r); astrological notes (108v–110r), including: figure showing the points of essential dignities of each planet in the 12 signs (108v), ‘Coniunctio est triplex. Maxima: et est trium superiorum planetarum...’ (108v–109r), **Ptolemaica (109r–109v)**, ‘Item, operatio a planetis, proprietas a signis...’ (109v), ‘Significationes planetarum...’ (109v), ‘Proprietates planetarum...’ (109v), tables of decans and exaltations (110r). Blank: IIv. F. Ir and I^av contain documents foreign to the MS.

Bibl. Wisłocki 1877–1881, I, 445; Rosińska 1984, 555 (index); Markowski 1990, 303.

109r–109v ‘Propositiones Ptholomei astrologi et regis Egipti. Prima: Scientia stellarum ex te et ex illis est. Quinta: Astrologus optimus multum malum prohibere poterit — 74^a: Cum Mars fuerit in ascendente, erit in facie nati signum.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, v. 1, 5, 8–9, 22, 29, 36, 41, 46, 50, 54, 61 and 74 (propositions only, sometimes incomplete and/or reworked).
No glosses.

Cracow, Biblioteka Jagiellońska, 1917

s. XV^{ex} (1492 for f. 84–97, cf. f. 97r: ‘Finis harum tabularum resolutarum 1492’; star table verified 1495 f. 111v–113r (cf. f. 113r). **Or.:** University of Cracow. **Prov.:** Petrus Tomicki (d. 1535), bishop of Cracow, who bequeathed the MS to the College of Theologians of the University of Cracow (cf. f. 1r: ‘1536. Reverendissimus dominus Petrus Thomicius episcopus Cracoviensis collegio theologorum legavit’).

Paper, I + 117 f. (new foliation, which replaces the old pagination used by Wisłocki, Rosińska and Markowski), several hands.

Astronomy and astrology: astronomical notes (Ir–Iv); *Tabule resolute* (1r–68v); astronomical notes (69v); Petrus Gaszowiec, *Tabule auree* (70r–77v), with canons (78r–83r); Johannes de Glogovia, *Canones Tabularum resolutarum* (84r–97r); astronomical diagram ‘Theorica Solis’ (98r); astronomical tables, incompletely filled (99r–100r); ‘In questionibus astrologicis quivis (?) sit varia consideracio hec tamen est generalis...’ (100v–103ra); ‘Generales in naturis planetarum significationes quantum ad aeris mutacionem Albumazar, differentia septima, tractatus quarti: Qualitas active planete...’ (104ra–109vb); astronomical table (110v); star

table verified 1495 (111v–113r); astronomical diagram, incomplete (113v); ‘Luna cogitus et plenilunium quam utriusque aspectus tum inter se tum cum reliquis planetis...’ (114r–114v); ‘De mutacione aeris. Si quis igitur aeris mutaciones prescire voluerit nosce eum oportet quatuor anni tempora...’ (114v–115v); ‘Electiones in iniciis operum. Saturni coniunctio cum Luna...’ (115v); astronomical table (116r); ‘Si quis nascetur cum Saturnus dominetur audax...’ (116v); **Ptolemaica** (117r); ‘Pro intellectione huius dantur due regule...’ (117v). Blank: 69r, 83v, 97v, 98v, 103v, 110r, 111r.

Bibl. Wisłocki 1877–1881, II, 458; Rosińska 1984, 555 (index); Markowski 1990, 304.

117r ‘Circulum pro exitu geniture ab utero iuxta verbum Ptholomei rectificate. Sit tempus datum genitura cuiuspiam in anno, die, hora — figura celi constituatur que erat finaliter verificata (?).’
= **Albertus de Brudzewo** (?), *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17). No glosses.

Cracow, Biblioteka Jagiellońska, 1921

s. XIV. **Prov.:** ‘Thomas Zabrzyczki dedit istum librum’ (inner front cover, 17th-c. hand).

Parchment, 123 f., a single hand.

Astronomy: Pseudo-Thebit Bencora, *De motu octave spere*, incomplete (2r–4r); **Ptolemaica** (5r–122v). Blank: 1 (except notes f. 1r: ‘Ieber Phylosophi’ and ‘Ieber super Almagesto Ptolomei’), 4v, 123.

Bibl. Wisłocki 1877–1881, II, 460; Rosińska 1984, 555 (index).

5r–122v ‘Incipit tractatus Ieber exposicionum super Almagesti Ptolemei [faint title in margin]. Scientia species habet quarum melior post scientiam — sunt digniores ut evanescant et destruitur (?). Completa est declaratio eius’ (with fainted explicit in margin: ‘Completus est tractatus IX et ultimus libri. Hunc librum transtulit magister Girardus Cremonensis in Tholeto de Arabico in Latinum’).
= **Geber**, *Liber super Almagesti* (C.1.2). Preface, 5r–6v; I, 6v–19r; II, 19r–33v; III, 33v–39v; IV, 39v–52r; V, 52r–70r; VI, 70r–89v; VII, 89v–106v; VIII, 106v–113r; IX, 113r–122v. Glosses by the scribe.

Cracow, Biblioteka Jagiellońska, 1924

s. XIII¹, except pp. 2–5 and 202, which seem to have been added at a later stage (13th–14th or 14th c.?). **Or.:** northern (English hand and decoration at least for the copy of the *Almagesti minor*, pp. 9–163, acc. Georges). **Prov.:** the copy of the *Almagesti minor* was the exemplar of MS → Vienna, ÖNB, 5292, copied at the University of Vienna in the beginning of the 16th c.; Jacopo Piso (d. 1527), secretary to the Cardinal Protector of Poland; Matthias de Miechow (d. 1523), who bequeathed the MS to the University of Cracow.

Parchment, 318 pp., several contemporary neat hands (with pp. 2–5 and 202 added later, see above), painted initials pp. 3, 19, 38, 59, 81 and 126, numerous decorated initials pp. 9–163.

Astronomy and mathematics: two tables of contents, late medieval (inner front cover and p. 1); astronomical figure and notes, partly faded (2); two unfinished astronomical figures (4–5); **Ptolemaica** (3–4, 9–163 and 165–189); ‘Tres circulos in astrolapsu descriptos...’, attr. Jordanus (190–93); Theodosius, *De habitationibus* (193–97); Pseudo-Thebit Bencora, *De motu octave spere* (198–201); **Ptolemaica** (202a); Campanus of Novara, reworking of Theodosius’s *Spherica* (207–222); Theodosius, *Spherica*, tr. Gerard of Cremona (223–257); Jordanus de Nemore (?), *Opus numerorum* (263–271); Jordanus de Nemore (?), *Tractatus minutiarum* (271–278); Jordanus de Nemore (?), *De proportionibus* (279–282); Jordanus de Nemore, *De numeris datis* (287–313); table with note ‘Cum dividere volueris eundem numerum...’ (317). Blank: 6–8, 164, 202b–206, 258–262, 283–286, 314–316.

Bibl. Wisłocki 1877–1881, II, 481; L. Hajdukiewicz, *Biblioteka Macieja z Miechowa*, Wrocław, 1960, 406–08; Hughes 1981, 28–29; Rosińska 1984, 555 (index); Zepeda 2018, 62; Georges (forthcoming).

- 3a–4a ‘Equator diei (*corr. ex E* quatuor) est circulus maior qui describitur super duos polos orbis — (4a) modum sequitur hos duos orbes ab ea parte qua est altior locus...’
 = Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1), beginning only (§ 1–11 in Carmody). No glosses.
- 9–163 ‘Almagesti Ptholomei [title added by a later hand in upper margin]. Omnium recte philosophantium verisimilibus credibilibusque argumentis — tenebrarum sic se habent. Explicit liber sextus.’
 = *Almagesti minor* (C.1.4). No glosses.
- 165–89 ‘Prologus in Planispermium [title added by a later hand, upper margin]. Quemadmodum Tpholomeus (!) et ante eum nonnulli veteris auctoritatis viri antiquas seculi scribunt hystorias... (168) Planispermium Ptol<omei>, capitulum primum. Cum sit possibile, Iesure, et plerumque necessarium ut in plano represententur circuli in speram corpoream incidentes — cum ipsis circulis tropicis et cum circulis (184) meridianis signa distinguuntibus. Si a termino unius diametri circuli recti — per polum zodiaci transire necesse est vel habet.’
 = Ptolemy, *Planispermium*, tr. Hermann of Carinthia (A.6.1), Class I. Translator’s preface, 165–168; text, 168–184; *Propositiones planisperii*, 184–189. Occasional short marginal notes by the scribe and by at least two later hands.
- 202a ‘<E>quator diei est circulus maior qui describitur super duos polos orbis — orbis Veneris prius, post Solis, deinde Martis etc.’
 = Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1), beginning only (§ 1–11 in Carmody), the rest of p. 202 and pp. 203–206 are blank. No glosses.

Cracow, Biblioteka Jagiellońska, 1963

s. XVIⁱⁿ (copied for the most part between 1503 and 1514: 1503 for f. 228r–255r, 1505 for f. 122r–124v, 1505–1507 for f. 10r–109v (see first Ptolemaic section below), 1506 for f. 125v–153r (see second Ptolemaic section below), 1507 for f. 154r–225v, 1509 for f. 110r–120v, 1514 for f. 262r–264v). **Or.:** personal notebook of Albertus Kolazzek de Comprovincia (or Vaytek Kolaczek Copez), copied at the University of Cracow, at least partly when he was a student, cf. f. 120v: ‘Finis libri Abraam Iudei... anno domini 1509 in vigilia Trinitatis in bursa philosophorum’; f. 124v: ‘Finis anno 1505 Crac<ovie>’; f. 225v: ‘Finitus et scriptus furtim per unam septimam in universitate Crac<oviensi> anno domini 1507, die sancti Angustini, terminatus per Albertum baccalaureum Kolazzek de Comprovincia’; f. 255r: ‘Finis feria quarta ante nativitatem Virginis alme in florentissima universitate Cracoviensi necnon in collegio serenissimi principis in lectorio Aristotelis hora vigesima prima anno domini 1503’ (this corresponds to Johannes de Glogovia’s lectures delivered in the winter semester 1502–1503 in the lecture room ‘Aristotle’, cf. Wisłocki 1886, 57: ‘mgr. Iohannes de Glogovia Priorum’); f. 264v: ‘Vaytek Kolaczek Copez in vigilia Trinitatis 1514 Crac<ovie>’. **Prov.:** Michael de Wislica, who added f. 1r–8r and gave the MS to the University of Cracow in 1543 (cf. inner front cover: ‘Sum magistri Michaelis de Vislicza, sacre theologie bacc<alarii>, canonici sancti Floriani pro bibliotheca Collegii Maioris Crac<oviensis> 1543’).

Paper, 269 f., one main hand (Albertus Kolazzek), except for f. 1r–8r (Michael de Wislica), 60r–64v and perhaps other places.

Astrology: ‘Canon ad gradum ascendentis ad alios duodecim cardine vel domos celi inveniendas...’ with tables, added by Michael de Wislica (1r–8r); ‘Cum receperit (?) matrix generando sperma parentis...’ (8v); ‘Fortitudo planetarum duplex est...’ (9r); Albumasar, *Flores*, first lines only (9r); tables of triplicities (9v); **Ptolemaica (10r–109v)**; Abraham Avenezra, *Liber de nativitatibus* (110r–120v); table ‘Antistiorum in minutis’ (121r); notes (121v); Hermes, *Centiloquium* (122r–124v); note ‘Astrologus debet esse loycus quia loyca aperit omnes difficultates...’ (124v); ‘Quo est Luna ipsa existente diminuta lumine...’ (125r); **Ptolemaica (125v–153r and 153r–153v)**; Alubater, *De nativitatibus* (154r–225v); table: elections from the aspects of the Moon with the other planets (226r–227r); Johannes de Glogovia, *Summa astrologie*, Book I (228r–255r); ‘Divisio duodecim domorum. Modus racionabiliter in equacionibus 12 domorum, qui est magistri Iohannis de Regio Monte et Abraam Avenesre...’ (255v); two horoscopes, the second of which is the nativity of King Wladislaw III of Poland (256r–256v); Regiomontanus, *Ephemerides*, canons only (257r–261r); Alkindi (?), *Saturnus in Ariete sub radiis...* (261r–261v); *Astronomia Ypocratis* (262r–264v); ‘Legas quot sunt modi futura pronosticandi... Primus modus prenosticandi est astronomia que docet cursus stellarum, ut docet Ptolomeus, Hermes, Alkindus et Ebreus...’ (265r–266r). Blank: 59v, 61v–63v, 65–66, 121v (except notes), 227v, 266v–269v.

Bibl. Wisłocki 1877–1881, II, 477; Monfasani 1984, 22; Rosińska 1984, 555 (index); Markowski 1990, 305–06.

10r–109v ‘[TEXT] Ptolomeus. Res, o Missori, quibus perficiuntur prenosticationes accepte de astronomia aures et nobiliores... [COMM.] Iste totalis liber Ptolomei Pheludiani dividitur in quatuor partes principales. In prima posuit

regulas introductorias — finem in hoc loco huic libro imponere conveniens extimamus. Finis anno 1506 ipso die sancti Nicolai.’

= **⟨Commentum Cracoviense in Quadripartitum a. 1505–1507⟩ (C.2.13)**. Book I, 10r–33r (33r: ‘Anno domini 1505, feria quinta post Simonis Iud.’); II, 34r–57v (57v: ‘Finis anno 1507, feria secunda ante nativitatem Mariae’); III, 67r–94r; IV, 94r–109v. Extraneous (?) material added by the scribe on f. 33v (horoscope and notes), 58r–59r (14 horoscopes, one of which dated 1509 on f. 59r). F. 60–64, of smaller size and copied by a later hand, contain additional material related to Ptolemy: ‘(60r–61r) Quoniam in praedictionibus Pto<lomeus> praecepit quinque observare, scilicet locus, tempus, genus, exaltatio et plenitudines...’; (64r–64v) ‘Propositio prima ne pretermittas centum et XIX (!) coniunctiones...’ (*Centiloquium* v. 51 in Giovanni Pontano’s translation (B.1.9); f. 61v–63v and 65r–66v are blank). Substantial glosses throughout, which form the commentary.

125v–153r

‘Centiloquium Ptolomei incipit. Dixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est... Expositio Hali super verbo primo Ptole<mei>. Quod dixit Ptolomeus, ex te et ex illis, significat qui res futuras... (126r) Dixit Pto<lomeus>: Mundanorum mutatio ad hoc et ad aliud corporum supercelestium... doctrina stellarum ex ... (?) ex illis est. Nec est doctrina in ea ut propter hanc formam — et ego Deum precor ut diligat quoniam perfecta est huius libri translatio decimaseptima die mensis Martii, 12 die mensis Gumedii anno Arabum quingentesimo (!) tricesimo. Finis in vigilia Prisce hora quinta noctis anno 1506. Crac<ovie>.’

= **Matthias de Krajna, ⟨Lectiones in Centiloquium⟩ (C.3.20)**. The source text, copied in the centre of the page, is Plato of Tivoli’s translation (C.3.1.1), with the proposition of v. 1 also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). Substantial interlinear and marginal glosses by the scribe reflecting Matthias de Krajna’s lectures, at least in part, and whose beginning cannot be confidently located. The glosses also include v. 1–92 in George of Trebizond’s translation (B.1.7) labelled ‘alia translatio’ (‘Alia translatio. Iam pridem perutiles... Alia translatio. Abste et a scientia, non est enim possibile ut huius scientie professor — (150r) sicut nec Mars occidentalis’).

153r–153v

‘Quod Ptolomeus intendit primum de angulis quadrati inclusi intra circulum directum equinoctialem — nam figura sedecim laterum claudit in se nedum quadratum verum et octogonum. Hec in explanatione verbi Ptolomei 60’ (followed by the diagram ‘Circulus concludens figuram quadratam octogonam seu octo laterum et sedecim laterum’).

= **Matthias de Krajna (?), ⟨Commentum in verbum 60 Centiloqui⟩ (C.3.21)**. No glosses.

Cracow, Biblioteka Jagiellońska, 1964

s. XV^{ex} (1494, see colophon). **Or.:** copied by Martinus Biem de Olkusz at the University of Cracow (colophon). **Prov.:** 'A clarissimo domino Valentino Fontano [Valentinus Fontana, 1545-1618] accepi una cum astrolabio aeneo per dominum Casparum Solscium, Simonis Simonitae ex sorore nepotem. Iohannes Broscius [Jan Brożek, 1585-1652] m<anu> p<ropria>' (inner front cover).

Paper, 170 f., a single hand.

Ptolemaica (single text). Blank: 1v, 170v (f. 1r not in reproductions).

Bibl. Wiślocki 1877-1881, II, 477-78; Rosińska 1984, 373 (no. 1912); Markowski 1990, 306.

2r-170r 'Incipit liber Iebri exposicionum super Almagesti Ptholomei. <S>cientia species habet quarum melior post scientiam — sunt digniores ut evanescent et destruantur. Completa est declaratio eius. Completus est tractatus nonus et ultimus libri Iebri, quem transtulit magister Gerardus Cremonensis in Toletum de Arabico in Latinum. Finitus est 8 die Aprilis anno a nativitate Christi 1494 corrente in Cra<coviensi> universitate. Per me magistrum Martinum de Ilkusch, tunc in bursa Ierusalem permanentem et in duabus septimanis est scriptus et completus, videlicet a dominica Iudica usque ad Pascham (colophon added, same hand).'

= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 2r-4v; I, 4v-23r; II, 23v-43r; III, 43r-51r; IV, 51r-68r; V, 68r-94r; VI, 94r-119v; VII, 119v-145v; VIII, 145v-154v; IX, 154v-170r. Glosses by the scribe.

Cracow, Biblioteka Jagiellońska, 1967

s. XV^{ex}-XVI¹ (hands I, II and probably III are from the late 15th c., and hand IV from the first half of the 16th c.). **Or.:** University of Cracow (note on inner front cover by hand IV: 'Pro verificatione ex ultima pro Cracovia sufficit 22 minuta addere et ad maximum 24, ad coniunctiones et oppositiones, ut magister Nicolaus Schadek [Nicolaus de Szadek, fl. 1518-1532] dicit...').

Paper, I + 107 f. + I^a, four main hands (I: f. 1-26v; II: f. 27r-32v and 42v-60v; III: f. 33r-36r; IV: f. 36v-38v and 61-91r).

Astrology and astronomy: scattered astronomical and astrological notes by hand IV (inner front cover); fragment of a text on the liberal arts (Ira-Ivb and I^ara-I^avb); **Ptolemaica (1r-60v)**, with inserted texts and pieces (see below); 'Nunc videndum est de imaginibus septem planetarum sive stellarum erraticarum...' (61r-64v); 'Ad utilitatem discipulorum astronomice artis tractatus de ordine stellarum fixarum celi seu imaginibus 48 firmamenti...' (64v-68r); 'Astrolabii quo primi mobilis motus deprehenduntur canones. In opus et instrumentum astronomicum astrolabium vel planispherium...' (69r-91r); 'Nota. Si aliquis ad te interrogaverit (?) et volueris scire in qua voluntate ad te venit...' by hand IV (inner back cover). Blank: 35r, 39r-42r, 68v, 91v-107v.

Bibl. Wiślocki 1877-1881, II, 478; Rosińska 1984, 555 (index).

- 1r–60v ‘Liber quadripartiti Ptholemei cuius in primo tractato sunt 24 capitula. Translationis nove [title in upper margin by a later hand]. Capitulum primum primi tractatus quatuor partium Ptholomei Veludiani. Res, o Miseri, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due, quarum est que debet in ordinatione esse virtute (?) preponi et est hec ars qua duorum luminarium et quinque planetarum figure sciuntur secundum motum suum — Et postquam in modo universali perfecimus iudicium nativitatum finem huic libro in hoc libro (!) huic libro conveniens estimemus inponere.’
 = **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**, without the translator’s preface and without Haly’s preface and commentary. I, 1r–21v; II, 21v–38v; III, 42v–50r (chs 12–14 only); IV, 50r–60v. The text is copied on f. 1r–5v, 7r–8v, 10r–32v, 36v–38v and 42v–60v. F. 6 and 9 consist of two small inserted pieces of parchment containing astronomical notes for 1408 and 1412–1414 in another hand. F. 33r–36r, originally blank, contain a text on eclipses ‘Considera si coniunctio fuerit de die vel nocte — Expliciunt canones eclipsium per dominum Iohannem de Gaxonia [John of Saxony] compilati.’ F. 35r and 39r–42r are blank. Glosses by hand IV (f. 21v–32v), which is also responsible for supplying the end of Book II on f. 36v–38v.

Cracow, Biblioteka Jagiellońska, 1970

s. XIII^{ex}–XIVⁱⁿ (partly copied in 1298, cf. Paravicini Bagliani).

Paper, 147 f., several hands. Several folia are missing at the beginning, between f. 50 and 51 (several pages cut off) and at the end. The last pages of the MS, esp. f. 144–147, are damaged.

Astronomy, astrology, geometry, arithmetic, music and physics: text on the astrolabe, beginning gone ‘... comparatio stature ad planiciem. Explicit’ (1r–6v); ‘Si vis scire utrum astrolabium recte pendit vel non...’ (6v–7r); ‘Astrolabium ita construitur: recipe tabulas de auricalco ad hoc aptas...’ (7r–12v); ‘Operaturus autem per chilindrum, si vis scire horas cuiuscumque diei... Investigantibus chilindri compositionem quod dicitur horologium viatorum, sumatur lignum...’ (12v–14v); ‘Describemus circulum ABCD super centrum E et dividemus in quatuor partes...’ (15r–16v); ‘Speram solidam sic complebis querendo primo per circinum...’ (17r–17v); ‘Alia compositio chilindri licet omnes coincidunt. De figura autem chilindri est sciendum quod totum corpus chylindri...’ (17v–19v); ‘Sequitur practica chylindri et incipit s... (?) canones eius. Operaturus autem per chylindrum si vis scire horas cuiuscumque diei...’ (19v); ‘Questio proposita fuit numquid Luna semper equaliter distat a centro universi...’ (20r–30r); ‘Series temporum secundum Albategni. Ab Adam ad Diluvium...’ (30r–30v); Pseudo-Thebit Bencora, *De motu octave spere* (32r–37r); **Ptolemaica** (37v–42v); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (42v–44v); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportione terre* (44v–48r); Pseudo-Albertus Magnus, *Speculum astronomie*, chs 1–5, due to missing folia (48r–50v); ‘Nota: Umbra est recta quam facit res infixa rei infixa rei...’ (51r–53v); John of Murs, *Arithmetica speculativa* (54r–62v); Thomas Bradwardine, *Tractatus proportionum*, abridged version (63r–69v); ‘In collecto presenti plura narrabo, primo terminorum aliquorum

notificationem...' (69v–77r); 'Quoniam de practica arismetice in algorismo quo ad integra sufficienter...' (77r–89v); geometrical and astrological diagrams (89v–90r); notes and diagram of computus (90v); 'Nota: Luna est immutationis temporum, ut dicit Beda. Si Luna in principio rubeat ut aurum...' (90v); 'Nota quod augmentum Lune est ab 1 usque ad 15...' (91r–91v); 'Capitulum primum de dispositione quadrantis et de expositione linearum et circularum ipsius. Hunc tractatum divisimus in 16 capitula, et primo sciendum est quod in fine istius instrumenti, scilicet in limbo...' (92ra–103rb); John of Murs, *Musica speculativa* (104r–115v); 'Opus istud in quatuor partes distinguitur. In prima planismetriam et superficierum quantitatis...' (116r–131v); Campanus of Novara, *De figura sectore* (131v–133r); 'Proportio est duarum quantitatum eiusdem generis ad invicem habitudo...' (133v–137r); Zenodorus, *De isoperimetris* (137r–140v); 'De ingeniis ductuum aquarum. In nomine Dei pii et misericordis incipit liber Phylonii de specialibus ingeniis...' (140v–144r); computus text, whose beginning is gone due to damage (144v–145r); 'Nota: 12 sunt passiones, videlicet amor, odium...' (145r–147v). Blank: 31, 103v.

Bibl. Wisłocki 1877–1881, II, 479; Zambelli/Caroti 1977, 142–43; Rosińska 1984, 555 (index); Paravicini Bagliani 2001, 26.

37v–42v 'Incipit Thebith de hiis que indigent expositione antequam legatur Almagesti. Equatuor diei est circulus maior qui describitur super 2 polos — propinqui oppositioni Solis erunt tunc retrogradi, id est movebuntur contra successionem signorum. Explicit Thebith de hiis que indigent expositione antequam legatur Almagesti et dicatur equator diei.'
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Cracow, Biblioteka Jagiellońska, 2490

s. XVIⁱⁿ (c. 1520). **Or.:** Cracow.

Paper, 10 f., a single hand. Several folia are missing at the end.

Ptolemaica (single text).

Bibl. Wisłocki 1877–1881, II, 594; Rosińska 1984, 555 (index); Markowski 1990, 307; Lemay 1999, I, 420.

1r–10v 'Incipit liber centum verborum Ptolomei. Dixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Verbum primum in cognitione eorum qui verum iudicium perhibetur. Scientia stellarum ex te et ex illis est — in aliqua domorum Saturni et ipse Mercurius fortis in esse suo dat bonitate (!) intelligentie...'
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**, v. 1–38, without the commentary. The text breaks off in the middle of v. 38 due to missing folia. Substantial marginal and interlinear glosses (much longer than the text) by the scribe or by another hand (at any rate, the text was copied so as to leave wide margins for glosses), which Markowski calls 'Expositio marginalis Cracoviensis Centiloquii

Claudii Ptolomaei cum textu.’ The interlineary gloss to the first line (f. 1r) reads ‘Nova translatio habet Ossire (i.e. for Iesure)...’. The glossator used George of Trebizond’s translation (B.1.7) and quotes Lucius Bellantius f. 1r.

Cracow, Biblioteka Jagiellońska, 2703

s. XV^{ex} (1492–1493, cf. f. 66r, 100v, 128r, 169v; 1493 for the Ptolemaic section, which was copied immediately after Albertus de Brudzewo’s *Commentariolum*, whose copy is dated 1493, see below). **Or.:** personal notebook of ‘Michael Ruzsoczky’ or ‘Michael de Ruzsocyche’ (Michael de Russocice alias Michał z Russocic in Rosińska), then student at the University of Cracow (cf. f. 100v: ‘Finitus feria quarta proxima ante nativitatem magis gloriose Marie anno domini 1492 in studio Crac<oviensi>’; f. 153r: ‘Et sic est finis huius operis in studio alme universitatis Crac<oviensis>, burse Ierusalem per me Michaellem Ruzsoczky, filium generosi Iohannis Ruzsoczky, dapiferum Lancicie...’; f. 169v: ‘Explicit Comentariolum super Theoricas novas Georgii Purbacii in studio generali Crac<oviensi> per magistrum Albertum de Brudzewo subtiliter corrogatum, scriptumque per me Michaellem de Ruzsocyche in bursa Ierusalem, finitum in vigilia circumcizionis domini anno domini 1493. Finis’).

Paper, 175 f., one main hand, difficult to read. Texts are heavily glossed.

Astronomy, astrology, grammar, philosophy and geography: Johannes de Glogovia, comm. on Sacrobosco’s *De sphaera*, beginning only (1r–1v); ‘Item libri maiores sunt quatuor. Primus est in theologia et est Biblia. Secundus in iure canonico et est decretum. Tertius in astronomia, ut Ptolomeus in sapientiis Almagesti. Quartus in medicinis...’ (1va–1vb); Johannes de Erfordia, *Computus chiometralis* (2r–22v); astrological and astronomical notes and diagrams (23v–24v); Johannes de Glogovia, *Summa astrologie*, Book IV (25r–29v); ‘Tractatulus magistri Richardi de plantatione arborum fructiferarum et vinearum unde sex sunt modi plantationis...’ (30r–33v); ‘Modus inveniendi tempus electum pro sanguinis minutione...’ (33v–34r); ‘Astronomia secundum intentionem Ptolomei primo Quadripartiti capitulo primo diffinitur: Est scientia qua duorum luminarium et quinque planetarum...’ (34r–36rb); text of grammar (37r–44r); text of philosophy, attr. Egidius de Parma (44r–58v); notes ‘In prima parte huius docetur de cantu, voce et clave...’ (59r); Petrus Gaszowiec, *Computus novus* (59v–65v); notes ‘Isidorus libro tertio: Astronomia de (!) est astrorum lex...’ (65v); ‘In Dionisii Tesselonicensis geographiam suplecciones ex Ptolomeo, Strabone, Plinio, Paulo Orosio, Pomponio Mella, Petro Cameracensi ceterisque huius artis professoribus incipiunt feliciter anno domini 1492. Cosmographia a cosmos, quod significat mundus, et graphia descriptio...’, abrupt end (66r–67v); Giovanni Bianchini, tables of houses (68r–73v) and ‘Tabula equationum dierum cum noctibus’ (74r–74v); Johannes de Glogovia, *Tractatus de defensione astrologie* (75r–77v, ed. Malewicz, 167–75); Johannes de Glogovia, *Tractatus de 48 imaginibus celestibus* (77v–100v); Dionysius Periegetes, *Descriptio orbis terrarum* (101r–128r); Johannes de Glogovia, *Introductorium astronomie in ephemerides* (128v–153r); ‘Tabule duodecim domorum horizontalium gratia allevationis per magistrum Albertum de Brudzivo ex tabulis magistri Iohannis de Regio Monte...’ (153v); Albertus de Brudzewo, *Commentariolum super Theoricas novas Georgii Purbachii* (154r–169v); **Ptolemaica**

(169v–175r); astrological notes ‘Triplex est mora nati in utero...’ (175va–175vb). Blank: 22v–23r, 36v, 102v.

Bibl. Wiśłocki 1877–1881, II, 636–37; Rosińska 1984, 556 (index); M. H. Malewicz, ‘Joannis de Glogovia “Persuasio brevis quomodo astrologiae studium religioni christianiae non est adversum”’, *Studia Mediewistyczne* 22 (1985), 153–75: 163–65; Markowski 1990, 309; Lemay 1999, I, 420; Malpangotto 2020, 668.

169v–175r ‘Verbum Ptolomei LVII est de medelis unde dum voluerit medicus... (174r) Advertendum ergo est quod in prenosticatione eclipsis quomodo (?) iuxta viam Ptolomei principaliter sunt investiganda. Primum est determinare in qua provincia vel civitate accident ille actus... Capitulum in quibus terris et provinciis continget effectus eclipsium. Iuxta intentionem Ptolomei effectus eclipsium trans... (?) in civitate concordante cum signo in quo est eclipsis — tales apparebunt.’

= **Michael Ruszoczky (?)**, *Commentum in Centiloquium* (C.3.18).

No glosses.

Cracow, Biblioteka Jagiellońska, 3224

s. XVI¹ (probably in the 1530s, judging from the horoscopes pp. IIIv–13). **Or.:** astrologer’s handbook of Adam Tussinus de Tarnovia [Tarnów] (*fl.* 1532–1537), who gave it to the University of Cracow (cf. added note pp. 15 and 14: ‘Collegio minori donatus per m<agistrum> Adamum Tussinum a Tarnow. Executores eius doctor Nicolaus a Sschadek [Nicolaus de Szadek, *fl.* 1518–1532] et m<agister> Michael a Voynicz, qui collegiaturam maiorem resignavit ultro et in patria vitam finivit, contentus uno altari et pauperi eodem, in cuius locum vocatus est m<agister> Petrus a Proboscevice astrologus [Petrus de Proboszczowice, *fl.* 1544–1556]’).

Paper, III + 552 pp., one main hand (Adam Tussinus), difficult to read.

Astrology and astronomy: horoscopes dated e.g., 1519, 1520, 1531, 1526 and 1534, with notes (IIIv–13); provenance note (14–15); list of great conjunctions 1385–1643 (17); notes on the foundation and history of Tarnów (18); **Ptolemaica** (19–223, 224 and 239–266); ‘Dicta Hermetis. Cum Sol fuerit in nona in revolutione annua significat motum regum de una terra in aliam...’ (77–80); note (81); horoscopes for a ‘Balthasar Thur... (?)’, born on 1 January 1513, with notes (237–238 and 267–270); *Tractatus de scientia nativitatum* ‘Scientia nativitatum est que ex figura nativitatis hominis sibi et suis eventus futuros prenosticat. Habita enim figuratione celi...’ (291–400); Cristannus de Prachaticz, *Usus astrolabii* (459–537), with ‘Additamenta’ (538–45 and 550); notes of medicine (546–547). Blank: Ir–IIIr, 16, 82, 225–236, 271–290, 401–58, 548–549, 551–552.

Bibl. Wiśłocki 1877–1881, II, 707; Rosińska 1984, 556 (index); Markowski 1990, 309.

19–76, 83–223 ‘Liber secundus Quadrupartiti XIII c<apitula> continentes. Capitulum primum. De generali divisione scientie huius. Post dicta generalia in scientia astrorum omnibus partibus huius artis convenientia — (76) accidentibus

predictis coloribus significatis indicabunt. (83) Pro habenda declaratione nativitatum regulas has ex tertio Quadripartiti Ptholomei breuiter recollectas in mente habeas et habebis vera prognostica earum. In parte prohemiali Ptholomeus docet quod in principio sui Quadripartiti libri — finem libro imponere non incongruum existimamus.’

= **Adam Tussinus de Tarnovia (?)**, *Commentata epitome in Quadripartitum* (C.2.18). Book II, 19–76; III, 83–145; IV, 146–223. A few corrections by the scribe.

224 ‘Dicta Ptho<lome>i in Centiloquio ad nativitates pertinentia. 3. Qui ad rem quam (?) aptus est habebit omnino stellam eius rei — si autem infortunans in ascendente sit contrarium huius intellige.’

= **George of Trebizond**, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11), v. 3–5, 12, 16 and 18, without the commentary. No glosses.

239–266 ‘De tribus nativitatibus. Volo in hoc loco tibi dare triplex exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, et prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Explicui examinationes trium nativitatum.’

= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2), Haly’s appendix only. No glosses.

Darmstadt, Hessische Landes- und Hochschulbibliothek, 739

s. XIV¹ (f. 153–232; the other parts of the MS date from the 9th to the 14th c.). **Or.:** probably Liège for f. 153–232. An early owner added historical, astronomical and meteorological notes in the margins of the almanac for the years 1346 to 1367 (f. 195v–206r), four of which mentioning Liège (f. 195v, 196r and 204v). **Prov.:** St James of Liège (cf. medieval ex-libris f. 1r, 40r, 79r, 125r and 243r).

Parchment, 252 f. Composite MS made of at least ten parts of various dates, of which f. 153–232 form one part copied by three hands (I: f. 153–164; II: f. 165–184; III: f. 185–232). The homogeneity of this part is shown by a table contents added by a 14th-c. hand at the bottom of f. 153r and by the fact that hand III added texts in the lower margin of f. 180v–184r and on f. 184va–184vb.

Astrology and astronomy (f. 153–232): Albumasar, *Flores* (153ra–165vb); **Ptolemaica** (166ra–181va, 181va–182ra, 182ra–182rb and 182rb–183vb); Sem filius Haym, *Capitulum in narratione Saturni quid accidat in mundo* (180v–184r, added in lower margin by hand III); Abraham Avenezra, *Liber de electionibus*, anonymous tr., excerpts ‘Dicit Abraham: Comede medicinam, scilicet in pillis, vel bibere pocionem...’ (183vb–184va); canons of the almanac off. 185–232 (184va–184vb, added by hand III); planetary almanac 1340–1380 (185r–232v). Two other parts of the MS contain scientific texts: f. 1–39 (13th c.) are filled with Euclid, *Elementa*, version ‘Adelard II’, I–VI.32; and f. 243–249 (14th c.) contain astronomical and astrological texts: Robertus Anglicus, *Quadrans vetus* (243ra–249ra); comm. (?) on Pseudo-Thebit Bencora, *De motu octave sperre* (249rb–249va);

‘Ut mos est philosophorum in nativitate atque universali interrogatione querere primitus hyles...’ (249ra–249rb). The other parts of the MS deal with grammar, medicine and theology.

Bibl. Kristeller 1963–1992, III, 513–14; Busard/Folkerts 1992, I, 40–41; R. Bergmann, S. Stricker, *Katalog der althochdeutschen und altsächsischen Glossenhandschriften*, I, Berlin, 2005, 308; Lemay 1999, I, 241–42.

- 166ra–181va ‘<D>ixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... <S>cientia stellarum et ex te et illis est... Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — Ego Deum deprecor ut te dirigat. At perfecta est huius libri translatio 17^o die mensis Martii, 12 die mensis Uiumedi (?) secundi anno Arabum 309 alias 530.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. Substantial glosses (filling the margins entirely) by the scribe or a contemporary hand f. 166r–173r (up to v. 50). No glosses thereafter.
- 181va–182ra ‘<P>tolomeus dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit, de cenaculo vero non aliud quam de p<er>tica iudicandum.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.
- 182ra–182rb ‘<D>ixerunt Ptholomeus et Hermes quod locus Lune in hora — et hoc expertus fuit multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.
- 182rb–183vb ‘<A>lboharan etc. Verbum Ptholomei 60 in quo Ptholomeus tria tangit. Primum est de occasione dierum creticorum — et acuta ut de magna causa et brevi, ideo etc. Explicit.’
= ***Glosa super 60 propositionem Centilogii Ptholomei* (C.3.2)**. No glosses.

Darmstadt, Hessische Landes- und Hochschulbibliothek, 1987

s. XV. **Or.:** copied by a ‘magister Anthonius’ (see below).

Paper, 46 f., a single hand.

***Ptolemaica* (1r–38v and 39r–42r)**. Blank: 42v–46v.

Bibl. Zepeda 2018, 60.

- 1r–38v ‘Omnium recte philosophancium verisimilibus coniecturis credibilibus — (37v) super medium cursum Lune et quo provenerit numeracio ibi erit verus locus Lune’ (with addition 37v–38v, see below).
= ***Almagesti minor* (C.1.4)**. The text breaks off in V.9 and is immediately followed by an ‘additio’ consisting of six original chapters (37v–38v): ‘Additio. Ad componendum tabulam equocionis (!) centri Lune sic fac. Primo scias centrum duplex Lune medium... (38r) Ad componendum minuta proporcionalia. Tabula vero minutorum proporcionalium componitur isto modo...

Ad componendum equaciones argumenti. Tabulam equacionum argumenti vero compones isto modo... (38v) Ad componendum tabulam diversitatis diametri. Tabula diversitatis diametri componitur sic... Ad componendum tabulam latitudinis Lune. Tabula latitudinis Lune componitur... De tribus superioribus planetis. Tabula trium superiorum veri motus componitur — et cum instrumentis materialibus invenitur. Expliciunt addiciones mee. Sequitur artifi... (?) et est de textu.' Two further additions have been inserted into the text, at the end of Book III (23v–24r: 'Explicit liber tercius. Sequuntur quedam addiciones quas ego magister Anthonius hic inseravi. Aditio. Tabula equacionis dierum cum noctibus suis sic componitur. Quare arcum — si fuerit posita e converso fiat e converso etc.') and after IV.3 (25v: 'Addicio. Ad inveniendum medium motum Lune in una die, numerum dierum equalium lunacionis — in quibus coniunctiones ad statum similem reducuntur'). Glosses by the scribe, who is almost certainly the person responsible for the additions, i.e. 'magister Anthonius.'

- 39r–42r 'Verba Geber filii Affla Yspalensis. Sciencia species habet quarum melior post scienciam — et cum conversione huius demonstracionis completa est demonstracio. 9...' = **Geber, *Liber super Almagesti* (C.1.2)**. Preface and I.1–8, with abrupt end close to the bottom of the page. Glosses by the scribe.

Dijon, Bibliothèque Municipale, 441 (266)

s. XIV^{ex}. **Or.:** copied by Jean Fusoris, probably when he was a student in Paris in the 1380s or 1390s. **Prov.:** Dijon, Carthusian monastery.

Paper, 233 f., a single hand or one main hand (Jean Fusoris).

Geometry, astronomy and optics: Euclid, *Elementa*, ed. Campanus of Novara (1r–122vb); Theodosius, *Spherica*, anonymous tr. (122vb–145vb); Jean Fusoris (?), reworking of Witelo's *Perspectiva* 'Videndo perspectivam Witelonis aliqua que sequuntur reservavi. Unde prologus sic incipit: Veritatis amatori...' (154r–201r); Jean Fusoris, *Libellus de sectione mukefi* 'Libellus iste est de seccione mukefi, mediante qua componuntur specula ad magnam vel parvam distanciam comburentia prout placet. Subtili indagatione reperiuntur...' (204r–206r, ed. Clagett 1964–1984, IV, 185–99); Jean Fusoris (?), *De constituendo speculorum* 'Speculum in quo visu uno multe apparebunt ymagines se moventes constituere. Accipe pixidem profundam...' (206r–207v); **Ptolemaica (212r–233v)**. Blank: 146–153, 201v–203v, 208–211.

Bibl. *CGMB*, V, 104; Clagett 1964–1984, IV, 161; M. Clagett, 'Conic Sections in the Fourteenth Century: The Nature of the latus rectum of a Parabola', in *Studi sul XIV secolo in memoria di Anneliese Maier*, eds A. Maierù, A. Paravicini Bagliani, Roma, 1981, 179–217: 205–06; Zepeda 2013, 185–87.

- 212r–233v '¶ Quelibet circumferentia circuli secundum astrologos ymaginarum divide per 360 partes equales... Data circuli dyametro... Pro probatione istius

propositionis supponitur quod linea divisa — (232v) erit angulus DEA notus orientalis super orizontem, quod est propositum. Cum fuerint duo puncta orbis signorum equalis elongationis ab uno et eodem tropico — de aliis signis in quolibet climate etc. Et sic est expleta dictio secunda *Almagesti*.’
 = **Johannes de Wasia (?)**, *Commentum super Almagesti Ptholomei* (**C.1.10**), expanded version including a preface (212r) and four additional proofs in connection with *Almagest* II.12–13 at the end (232v–233v), perhaps by Jean Fusoris. A few glosses by the scribe.

Dijon, Bibliothèque Municipale, 449 (270)

s. XV² (f. 97–112 copied in 1459). **Or.:** copied by Petrus Pebidic or Pierre Pevadic at the University of Dole, near Dijon (cf. f. 53rb: ‘Scriptus per manum Petri Pebidic’ and f. 112r: ‘... escript par moy, Pierre Pevadic, en l’université de Dole, maistre es ars, indigne estudient en medecine, l’an MCCCCLIX, incomplet le mercredi 14 jour du moys de feuvrier. Deo gratias’). Petrus Pebidic also copied MS →Dijon, BM, 1045. **Prov.:** Dijon, Jesuit College (cf. ex-libris on inner front cover: ‘Ex bibliotheca publica collegii Divio Godranii’).

Paper, 122 f., a single hand.

Astrology and astronomy, partly in French: ‘Dispositio natorum sub signis. Primo de Ariete. Natus sub Ariete naturaliter colericus, agilis...’ (1ra–9va); ‘Incipit tractatus de proprietatibus et naturis signorum. Averois super primo De anima...’ (9va–9vb); Albumasar, *Flores* (10ra–14vb); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (15ra–15va); **Ptolemaica** (**15va–16va**); Pseudo-Messahallah, *Liber de orbe*, short version, incomplete (16va–16vb); Hermann of Carinthia, *De occultis*, attr. Albumasar (17ra–25ra); Aomar, *De iudiciis astrorum* (25ra–33vb); Zael, *Liber iudiciorum* (34ra–52vb); *Astronomia Ypocratis* (53ra–54va); Guillelmus Anglicus, *De urina non visa* (54vb–56rb); Messahallah, *De cogitatione* (56rb–56vb); Messahallah, *Liber interpretationum* (56vb–58ra); Messahallah, *Liber de intentionibus secretorum astronomie*, ch. 12 (58ra–58rb); **Ptolemaica** (**58va**); ‘Si questio est nocturna et Aries est in ascendente a gradu 20 usque in 25...’ (58va–58vb); ‘De stellis horarum. Necesse est ut de stellis horarum dicam quote sint...’ (59ra–59vb); ‘Ad rem perditam inveniendam constitue ascendens...’ (59vb); table: humours and zodiacal signs, with canon (60r); ‘Sciendum quod in omni nativitate...’ (60ra–61rb); ‘Frustratio sive ... tio (?) est quando unus planeta vult alium recipere...’ (61va–61vb); two circular diagrams showing the 16 cardinal directions and the aspects respectively (62v); two short chapters: ‘Cavendum est retrogradatio planetarum...’ and ‘Aries dominatur in Francia, Taurus dominatur in Ca<m>pania...’ (62v); John of Saxony, comm. on Alcabitius’s *Introductorius*, in French (63ra–96vb); Pseudo-Ptolemy, *Centiloquium*, in French (97ra–112rb); Pseudo-John of Seville, *Epitome totius astrologie*, excerpt ‘Respectus (?) duobus modis fit...’ (113r–113v); Albumasar, *De revolutionibus annorum mundi* (113v–122v). Blank: 62r, 112v.

Bibl. CGMB, V, 109–10; Samaran/Marichal 1959–1981, VI, 197; Moulinier-Brogi 2011, 198–99.

- 15va–16va ‘Quid sit circulus equinoctialis? Equator diei est circulus maior qui describitur super duos polos orbis — propinqui oppositioni erunt retrogradi.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.
- 58va ‘Tesbith Benchorat radiosa mentis speculatione astrologie ponit finem sublimitate mirantis serena rimatione enucleans per capitulorum variam distinctionem sui operis Gades pretaxat. Quid est circulus equinoctialis, quid zodiacus... Circulus equinoctialis est circulus magnus signatus super polos orbis super quos movetur orbis de oriente in occidentem. Zodiacus est circulus magnus — (Hora equalis) que etiam dicitur tortuosa est media sexta diei...’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**, alternative version (same in MS $\rightarrow$ Milan, BA, A. 183 inf., see C.1.1 under Note), beginning only. No glosses.

Dijon, Bibliothèque Municipale, 1045 (116)

s. XV². **Or.:** the whole MS is in the hand of Petrus Pebidic, who also copied MS $\rightarrow$ Dijon, BM, 449, at the University of Dole in 1459; and MS Paris, BnF, lat. 7408, f. 1–119, at least partly in Besançon in 1483.

Paper, 195 f., a single hand, reserved initials.

Astrology: Albumasar, *De revolutionibus nativitatum* (1r–49v); Aomar, *De nativitatibus* (50r–71v); Messahallah, *De revolutionibus annorum mundi* (71v–81v); Albumasar, *De revolutionibus annorum mundi* (81^{bis}r–107r); judgement on a nativity of 30 December 1160 ‘Omnes philosophi concordati sunt quod locus Lune in nativitate...’ (107r–119r); **Ptolemaica (119v–148r)**; Hermann of Carinthia, *De occultis* (148r–172r); Roger of Hereford, *De quatuor partibus iudiciorum astronomie* (172v–180r); *Astronomia Ypocratis* (180v–186v); Hermann of Carinthia, *Liber imbrium* (187r–190v); Messahallah, *De mercibus* (191r–195v).

Bibl. CGMB, V, 270–71; Lemay 1999, I, 338–39.

- 119v–147v ‘Hic est liber quem edidit Ptholomeus Pludensis in quo continentur 100 verba electissimis sententiis iudiciorum astrorum et est expositio ex comento Haly medici magni. Mundanorum ad hoc et ad illud mutatio celestium corporum mutatione est, et ideo causas rerum rimaturus primo celestia contemplare. Scientia namque astrorum ex te et ex illis est. Dicit Ptholomeus, mundanorum etc., premittens quasi fundamentum totius scientie iudiciorum astrorum... Quod autem dicit Ptholomeus, ex te et ex illis est, significat quod que res futuras prenoscere desiderat... (120r) Verbum alterius translationis. Astrologus non oportet dicere specialiter sed universaliter, ideo dicit hic Ptholomeus quod hoc scientia non est nisi... (133r) Dixerunt Ptholomeus et Hermes quod Lune locus in hora... et hoc expertus fuit multociens — et Deum deprecor ut te diligat. Et perfecta est huius libri translatio tertia die

mensis Martii et secunda die mensis Gimedi (!) secundi anno Arabum 530. Explicit Centiloquium Ptholomei cum comento Haly. Deo gracias.'

= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, 'Mundanorum' version (C.3.1.3), with the commentary from Plato of Tivoli's translation (C.3.1.1) added in v. 1 ('alterius translationis') and in other places, e.g. v. 10, 11, 99. In v. 100, the proposition is given in Plato and the commentary in both 'Mundanorum' and Plato. The text includes Pseudo-Ptolemy's *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) after the commentary on v. 51 on f. 133r (see below). No glosses.

133r 'Dixerunt Ptholomeus et Hermes quod Lune locus in hora — et hoc expertus fuit multociens.'
= **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5), inserted after v. 51 in the *Centiloquium* above. No glosses.

Dresden, Sächsische Landesbibliothek – Staats- und Universitätsbibliothek, Db. 86

s. XIII. **Prov.:** Valentinus Thaw (see added note f. 187v), who sold the MS in 1580 (f. [I]r: 'Emi de vidua M. Valentini Thaw... anno MDLXXX'); Mauritius Wilhelmus, duke of Saxe-Weitz (1664–1718).

Parchment, I + 278 f. (f. 49 missing), a single very neat hand. MS of impeccable execution with blue and red initials, richly decorated in places. The MS is however severely damaged by water, making significant portions of every page illegible, especially at the bottom.

Mathematics, physics, astronomy and optics: table of contents, by the hand of the buyer of the MS in 1580 ([I]r); Euclid, *Elementa*, version 'Adelard II' (1r–48v); *Liber de triangulis Iordani* (50r–61v); Jordanus de Nemore, *De elementis arithmetice artis* (61v–110v); Euclid, *De visu*, with comm. (111r–121v); Euclid, *De speculis* (122r–127v); Theodosius, *Spherica*, tr. Gerard of Cremona (128r–158v); Pseudo-Euclid, *De ponderoso et levi* (159r–159v); Jordanus de Nemore (?), *Demonstratio de minutiis* (159v–165r); Proclus, *De motu* (165v–168v); Jordanus de Nemore (?), *Demonstratio de algorismo* (169r–175r); Archimedes, *De mensura circuli* (175v–176v and 178r); Campanus of Novara, *De figura sectore* (177r–177v); theorems 'Omnis trianguli in semicirculo candelitis...' and 'Si tria trianguli latera coarcentur...' (178r–178v); 'Geometre eos arcus similes esse qui angulos recipiunt equales...' (178v–179v, this work differs from Ametus filius Josephi's *De arcibus similibus*); Zenodorus, *De isoperimetris* (180r–182v); Pseudo-Euclid, *De ponderoso et levi* (182v–183r); *Liber de canonio* (183v–185r); *De ponderibus Archimedis* (185r); fragment on the Roman balance 'Queritur in longitudine...' (185r–185v); Jordanus de Nemore, *Elementa super demonstrationem ponderum* (186r–187v); Johannes de Tinemue, *De curvis superficiebus* (188r–194v); Theodosius, *De habitationibus* (195r–196v); 'Tres circulos in astrolapsu descriptos...' (196v–198v); 'Ad scienciam extrahendi elevationes signorum in orbe recto...' (198v–200r); Euclid, *Data* (200r–213r); *De quadratura circuli per lunulas* (213r–213v); **Ptolemaica (214r–222r and 222r–224r)**; Jordanus de Nemore, *De plana spera* (224r–225v); Jordanus de Nemore (?),

De proportionibus (226r–228r); Jordanus de Nemore, *De numeris datis* (228r–242v); Jordanus de Nemore, *De ratione ponderis* (243r–249v); Johannes Peckham, *Perspectiva communis* (250r–271v); Archimedes, *Tractatus de incidentibus in humidum corporibus* (272r–274v); Pseudo-Euclid, *De speculis* (274v–275r); Alhazen, *De speculis comburentibus* (275r–278r). Blank: 278v.

Bibl. M. Curtze, ‘Ueber eine Handschrift der Königl. öffentl. Bibliothek zu Dresden’, *Zeitschrift für Mathematik und Physik, Historisch-literarische Abteilung* 28 (1883), 1–13; Heiberg 1907, XIII; Björnbo/Vogl 1912, 130–31; Clagett 1964–1984, I, xxiii; F. Schnorr von Carolsfeld, *Katalog der Handschriften der Sächsischen Landesbibliothek zu Dresden*, I, Dresden, 1979 (first published Leipzig, 1882), 304–05; Hughes 1981, 25–27; Kristeller 1963–1992, III, 376; Clagett 1964–1984, V, 340; H. L. L. Busard, *Jordanus de Nemore: De elementis arithmetice artis. A Medieval Treatise on Number Theory*, Stuttgart, 1991, I, 55–57; Busard/Folkerts 1992, I, 41–43.

214r–222r ‘Quemadmodum Ptholomeus et ante eum nonnulli veterum auctoritatis viri antiquas seculi scribunt historias... (214v) Cum sit possibile, Iesure, et plerumque necessarium ut in plano — (219v) et cum circulis meridianis signa distinguuntibus. Quotlibet duos circulos equedistantes recto in spera corporea — in plano datum punctum in spera potentialiter ostendit.’
= **Ptolemy, *Planispherium*, tr. Hermann of Carinthia (A.6.1)**, Class III. Translator’s preface, 214r–214v; text, 214v–219v; *Propositiones planisperii*, 219v–222r. Marginal notes by the scribe, including Maslama’s Notes.

222r–224r ‘Quatuor (!) circuli diei est circulus maior qui describitur super duos polos orbis — propinqui oppositioni erunt retrogradi.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Dresden, Sächsische Landesbibliothek – Staats- und Universitätsbibliothek, Db. 87

s. XIII^{med} (Stefan Georges, private communication). **Or.:** probably Paris (Stefan Georges). **Prov.:** ‘Hic liber est fratris Bertholdi de Mosb<ur>ch [Bertholdus of Moosburg, d. after 1361], ordinis predicatorum de Theutonia’ (f. 268v); Cologne, library of the Dominicans (f. 1r); Mauritius Wilhelmus, duke of Saxe-Weitz (1664–1718).

Parchment, 268 f., one or similar neat hands, decorated blue and red initials throughout.

Astronomy: ***Ptolemaica* (1r–71r)**; Geminus of Rhodes, *Elementa astronomie*, attr. Ptolemy in the table of contents f. 268v: ‘Introductiones Ptholomei in Almagesti’ (72r–102v); ‘Propositio quadrati medietatis basis trianguli...’ (102v–103r); ***Ptolemaica* (104r–161v and 162r–268r)**; added notes by two hands: owner’s note and table of contents partly faded (268v). Blank: 71v, 103v.

Bibl. F. Schnorr von Carolsfeld, *Katalog der Handschriften der Sächsischen Landesbibliothek zu Dresden*, I, Dresden, 1979 (first published Leipzig, 1882), 305; Kristeller 1963–1992, III, 376;

D. Grupe, *The Latin Reception of Arabic Astronomy and Cosmology in Mid-Twelfth-Century Antioch: The Liber Mamonis and the Dresden Almagest*, PhD Dissertation, The Warburg Institute, 2013, 77–78; Zepeda 2018, 65.

- 1r–71r ‘De prologo. De ordine eorum que sunt in hoc libro... (chapter index). Preclare fecerunt qui corrigentes scienciam philosophie, o Syre, diviserunt theoricam partem philosophie a practica. Nam si pars practice antequam — et invenimus illas eclipses quas commemoravimus concordēs fundamenti. Phylophonia Wuttoniensis Ebdelmessie explicit quartus sermo libri mathematice Ptholomei qui prenominatur Megali xintaxis sive astronomie translacione dictaminis.’
= *Almagest*, tr. ‘Abd al-Masīh of Winchester (A.1.3). Book I, 1r–15v; II, 16r–31r; III, 31r–49v; IV, 49v–71r. All tables are missing. No glosses.
- 104r–161v ‘Incipit Almagesti demonstratum de sex primis libris Ptolomei. Omnium recte philosophantium verisimilibus credibilibusque — arcus autem orientis inter gradum orientem vel grad<um> occidentem et circulum equinoctialem...’
= *Almagesti minor* (C.1.4), abrupt end in the middle of the last proposition (VI.25) at the bottom of the page. No glosses (except f. 104v). The table of contents f. 268v attributes the work to Campanus (‘Parvum Almagesti p... (?) demonstratum per Campanum’).
- 162r–268r ‘Astronomia Gebri novem libri [added title]. Scientia species habet quarum melior post scientiam — (267v) sunt digniores et evanescent et destruantur. Et illud est propositum. Finis noni et est ultimus librorum. Nota in figura 13^a primi libri Geber quod archus AG subtensus recto potest esse — In eadem figura potest contingere (*corr. ex* contingente) quod uterque duorum archuum AG AB sit maior quarta circuli et quod uterque sit minor sed Geber.’
= *Geber, Liber super Almagesti* (C.1.2). Preface, 162r–163r; I, 163r–171v; II, 171v–180r; III, 180r–188r (‘Corda GA est minor parte...’); IV, 188r–200v; V, 200v–222r; VI, 222v–239r; VII, 239r–253r; VIII, 253r–258v; IX, 258v–267v; appendix, 267v–268r. Glosses by one hand, perhaps that of the scribe, up to f. 198r, rare thereafter.

Dresden, Sächsische Landesbibliothek – Staats- und Universitätsbibliothek, N. 100

s. XV^{ex} (1487–1488 for most of the MS, cf. f. 19v, 154r, 190v, 213v, 216v and 218r, but also in or after 1494, f. 292r: ‘Anno Cristi 1494 currente occurrit eclipsis Lune totalis ad meridianum Cracoviensem 21 die Marcii, 14 hora completa, 0 minuto...’). **Or.:** most of the MS was copied by Egidius de Corinthia (f. 190v: ‘per me Egidium de Corinth<ia> anno 1488 in alma universitate Croc<oviensi> (!) at the University of Cracow (see f. 154r, 175r, 190v and 292r).

Paper, 306 f., one main hand (Egidius de Corinthia), with the possible exception of f. 1r–24v, 172r–173r, 185r and a few later additions on f. 11r, 150v, 202r and 220r.

Astrologer's handbook mixing standard texts and all sorts of notes and numerous glosses difficult to collate, dealing with astronomy, astrology, medicine and astral magic, including: Cristannus de Prachaticz, *Compositio astrolabii* (1r–10v); added table 'Tabula declinationis Solis ab equinoctiali' (11r); Cristannus de Prachaticz, *Usus astrolabii*, attr. Ptolemy: 'Et sic est finis canonum astrolabii Ptholomei anno 1487^{mo}' (11v–19v); Prophatius Judeus, *Quadrans novus* (20r–22r); Johannes Eligerus de Gondersleuen, *De utilitate quadrantis* (22r–24v); Sacrobosco, *De sphaera*, with comm. (25r–86v); Peurbach, *Theoricae novae planetarum* (87r–120v); Albertus de Brudzewo, *Commentariolum super Theoricas novas Georgii Purbachii* (121r–149v); notes of astronomy and astrology (150r–150v); Guillelmus Anglicus, *De urina non visa* (151r–154r); *Astronomia Ypocratis* (154v–157r); Zael, *De electionibus*, beginning only (157v–158v); Arnold of Villanova, *De cautelis medicorum* (159r–161v); various chapters, mainly of astrological medicine (161v–171v); Hermes/Enoch, *Liber imaginum signorum* (172r–173v); list of books of astral magic (173v); Petrus Gaszowiec, *De mutatione aeris* (174r–185r); star catalogue verified 1454 (185v–190v); onomancy (190v–191v); Johannes de Glogovia, *Summa astrologie*, Book IV (192r–196v); flebotomy, astrological (197r–197v); *Liber runarum* (198r–200v); short chapters on astronomy, astral magic, geomancy, onomancy and astrology (200v–203v); Albumasar, *De electionibus liber* (204r–213v); Messahallah, *De mercibus* (214r–216v); Messahallah, *Epistola de rebus eclipsium* (216v–218r); added horoscope for one 'Johannes Vaschovius' born in 1528 (220r); notes on the rectification of nativities 'Duo sunt moda rectificandi nativitates, unus est Ptolomei, alter antiqui Hermetis...' (220v–221r); **Ptolemaica (222r–222v)**; note on the rectification of nativities 'Item videlicet cum gradu Lune ad tempus geniture habitum...' (222v); astrometeorology 'De apertionibus portarum et quid ex eis significatur. Inquit Guido Bonati in tractatu de mutatione aeris...' (223r–226r); **Ptolemaica (226v–227v)**; Hermes, *Liber de stellis beibenii* (228r–229r); 'Boetes vel Custos Plaustrum vel Artophilax: Natus sub hoc signo vivet miserrime...' (229v); Johannes de Glogovia, *Summa astrologie*, Books I–II (230r–288r); mundane astrology 'De inventionem orbis magni. Orbem magnum quotus sit taliter invenies...' (288r–290r); astrological chapters 'Horas a meridiano incipientes ad horicontem reducere...' (290v–306v). Blank: 171^{bis}, 218v–219v, 221v.

Bibl. Birkenmajer 1924, 97–98; Zinner 1962, 24; L. Schmidt, *Katalog der Handschriften der Sächsischen Landesbibliothek zu Dresden*, III, Dresden, 1982 (first published Leipzig, 1906), 39–42; Kristeller 1963–1992, III, 379; Rosińska 1984, 552 (index); Markowski 1990, 289; Láng 2008, 319; Moulinier-Brogi 2011, 200–01; Malpangotto 2020, 655–56 and 664–65.

222r–222v 'Circulum pro exitu geniture ab utero rectificare iuxta verbum Ptho<lomei> quinquagesimum. Sit tempus datum cuiuspiam — tempore figura constituatur que erit finaliter verificata.'

= **Albertus de Brudzewo (?)**, *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare (C.3.17)*. No glosses.

226v–227v 'Nature particulares signorum et facierum eorum quas ponit Ptholomeus II Quadripartiti, capitulo undecimo, verificate per venerabilem egregiumque virum maystrum Petrum Gaschowis medicine doctorem. Totum signum Arietis sunt tonitrua et relampagos — (Pisces) meridionales facientes grandinem <de natura> Saturni' (in the form of a table).

= **Petrus Gaszowiec**, *Tabula de naturis particularibus signorum et facierum (C.2.7)*. The table is followed by a note: 'Nature signorum

sunt duplices, universales et particulares — ista natura loquitur presens tabula.’ No glosses, but, later on (different ink), the scribe added another note below the first note: ‘Item caput Algel (!) sive dyaboli in Perseo est de secunda magnitudine, septentrionalis, de natura Saturni et Iovis. Et ista dixit **Ptholomeus** in Centum verbis, verbo 73: Cum fuerit iunctus Mars corporaliter capiti Algel et non aspexerit fortunam...’ (= *Centiloquium*, v. 73, in Plato of Tivoli’s translation (C.3.1.1), the whole *verbum* is quoted).

Dublin, Chester Beatty Library, W 108 III

s. XV^{ex} (probably between 1481 and 1494). **Or.:** Naples, MS prepared for Alfonso II of Naples, duke of Calabria (d. 1495).. **Prov.:** Thomas Phillipps (no. 7084).

Parchment, I + 306 f., a very neat hand, deluxe MS with numerous painted initials.

Giovanni Pontano’s works: *De principe* (1v–10v); *De obedientia* (11v–59v); *De fortitudine* (60v–100v); *Charon* (102r–121v); *Antonius* (122r–157r); ***Ptolemaica* (157v–261r)**; *De aspiratione* (261v–306v). Blank: I, 1r, 11r, 61r.

Bibl. Kristeller 1963–1992, III, 197; G. Germano, *Il De aspiratione del Pontano nel codice W 108 III della Ch. Beatty Library di Dublino* in *Nuovi studi in onore di Mario Santoro*, eds M. C. Cafisse et al., Napoli, 1989, 43–58; Rinaldi 2002, 111 (no. 9).

157v–261r ‘Ioannis Ioviani Pontani liber primus commentationum in centum sententiis Ptolomei ad ill<ustrissimum> principem Federicum ducem Urbini feliciter incipit. (158r) Tametsi publicarum rerum administratio, bellicque gerendi cura detertere me iure possent, Federice dux fortissime... (158v) Textus Ptolomei. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronuntiet... Commentario. Nec medici, nec moralis philosophi sola est cognitio, sed quaedam etiam operatio — tum stellarum radii vel trahentes eas, vel impellentes pro qualitate aspectus et virium efficatia. F<inis>.’
= **Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16)**. No glosses.

Dublin, Trinity College, 382

s. XVI^{ex}–XVII^l. **Or.:** Oxford, papers collected by John Bainbridge; the Ptolemaic section was partly copied by Henry Savile.

Paper, 131 f., numerous hands, two of which copied the Ptolemaic section: I (Henry Savile), f. 35r–38r; II, f. 38r–40v.

Collection of letters, texts and notes, mainly mathematical, in Latin, Greek and English.

Bibl. T. K. Abbott, *Catalogue of the Manuscripts in the Library of Trinity College, Dublin*, Dublin, 1900, 59; Kristeller 1963–1992, III, 194 (D 2.3); Monfasani 1984, 14.

- 35r–40v ‘Georgii Trapezuntii ad libros Magnae Ptolemaei compositionis introductio.’ = **George of Trebizond**, *Expositio Magne compositionis Ptolomei* (**C.1.19**), excerpts from the Introduction and from Books I–III, IX and XII–XIII. No glosses.

Dublin, Trinity College, 397

s. XV² (f. 3–96, with the date 1469 given at the top of f. 75r; f. 97–143 were copied in 1416 and 1418, cf. f. 107v: ‘Explevi die 4 mensis Novembre (!) in Padua MCCCC^oXVI, die Mercurii ... (?)’ and f. 141v: ‘Explicit quem scribit (!) Petrus D. anno domini nostri Yesu Christi perfecto 1418 die 20 mensis Aprilis, anno a nativitate mea 23...’). **Or.:** northern Italy, f. 97–143 copied at least partly in Padua (see above); Domenico Bragadino (see f. 81r–94r) taught at Venice in the second half of the 15th c. **Prov.:** Domenico Grimani, cardinal of Venice (f. 2v: ‘Liber D. Grimani, Cardinalis S. Marci’).

Paper, 143 f., MS made of two parts, each copied by a single hand (f. 1–96 and 97–143).

Astrology and astronomy: table of contents (2r); Pietro d’Abano, *De motu octave sphere*, attr. Thebit (3r–10v); **Ptolemaica** (11r–39v, 39v–40r and 40v–41r); astrological notes ‘Albumasar in suo libro magni introductorii tractatu quinto, differentia undecimo (!) dicit quo dum Noe exisset de archa...’ (41r–41v); Gergis, *Theorica artium magicarum*, excerpt on the lunar mansions ‘Incipit liber Girgit. Nunc incipiam rationes librorum que apparent visibili... monstravit tibi mansionem sui, etc. Explicit liber Girgit de mansionibus Lune’ (41v–45r); Prophatius Judeus, *De aspectibus Lune ad alios planetas*, attr. Ptolemy: ‘Iudicia aspectuum planetarum inventa in libro Quadripartiti Pth<olome>i et primo sextilis aspectus Lune ad Solem. Fortunata dies ad agenda negotia — Explicit liber iudiciorum secundum Quadripartitum Ptholomei de aspectibus Lunae ad Solem et ad caeteros planetas ad diversa opera efficienda et vitanda que quotidie nobis accidunt’ (45r–49r); *Astronomia Ypocratis* (49v–54v); Pseudo-Aristotle, *De mundo* (54v–63v); Pseudo-Aristotle, *De Luna*, beginning only (63v); Hermes, *Capitulum de arbore borissa* (66r–66v); Pseudo-Albertus Magnus, *Liber aggregationis*, section on plants (66v–68v); ‘Primum capitulum sperae. Differentia est inter axem et diametrum... et haec quantum ad tractatum sperae sufficiant’ (75r–81r), with comm. ‘Super capitulo primo sperae notata per d<ominum> Dominicum Bragadinum [Domenico Bragadino]. Spera dupliciter dicitur in substantialem...’ (81r–94r); Sacrobosco, *De sphaera* (97v–107v), with the introduction of Robertus Anglicus’s comm. on this text; *Theorica planetarum Gerardi* (108r–114v); Andalo di Negro, *Theorica planetarum* (116r–141v). Blank: 1 (except notes f. 1r), 2v (except owner’s note), 64–65, 69–74, 94–97, 115, 142–143 (except for an incomplete horoscope f. 143v).

Bibl. T. K. Abbott, *Catalogue of the Manuscripts in the Library of Trinity College, Dublin*, Dublin, 1900, 62; Kristeller 1963–1992, III, 194 (D 2.16); M. L. Colker, *Trinity College Library Dublin. Descriptive Catalogue of the Mediaeval and Renaissance Latin Manuscripts*, London-Aldershot, 1991, I, 817–21.

- 11r–39v ‘Comentator libri centum verborum Ph<tolome>i qui dicitur Hally philosophus. Dixit Pth<olome>us: Iam scripsi tibi, Iesure, libros de hoc

quod operantur stellae in hoc seculo... Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Hic docetur quomodo astro<logus> iudicare debeat et qualiter iudicium factum... Glosa. Scientia stellarum dividitur in duo, in astronomiam et astrologiam... (11v) Expositio primi verbi. Quod dixit Pth<olome>us, ex te et illis est, significat quod qui res futuras prenoscere desiderat — Et ego Deum deprecor ut te diligat. Perfecta est huius libri translatio 17 die mensis Marcii, 12 die mensis Gumedii secundi anno Arabum 5202 (!). Deo gracias. Amen. Explicit liber 100 verborum Pth<olome>i sive Centiloquii cum comento Hally philosophi.’
 = **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, interspersed with the same original remarks as in MS $\rightarrow$ Seville, BCC, 7-7-30. No glosses, except for one marginal note by the scribe f. 17r.

- 39v–40r ‘De infusione spermatis secundum Pth<olomeu>m et Hermetem. Dixit Pth<olome>us et Hermes quod locus Lune, scilicet signum, gradus et minutum in quibus erat signum in hora in qua funditur sperma — et hoc expertus fuit multociens.’
 = **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.
- 40v–41r ‘Ptho<lome>us dixit quod stellae cum caudis sunt 9 — in regibus (?) et divitibus apparebit.’
 = **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Dublin, Trinity College, 399

s. XV^{med}. **Or.:** England (Colker).

Parchment, 161 f., a single hand.

Astrology: Albumasar, *Introductorium maius*, tr. John of Seville (1ra–135va); ‘Incipiunt agregationes abbreviate super libros iudiciorum astrologie sive flores auctorum iudiciorum. Scientia astrorum dividitur in duo, in demonstrationes que sunt certe...’ (135va–149rb); *Capitula Almansoris* (149rb–155ra); Hermes, *Centiloquium* (155ra–159ra); Alcabitius, *Introductorius*, V.19–20 (159ra–159rb); ***Ptolemaica* (159va–160rb and 160rb–160vb)**; ‘De mora nati in utero matris...’ (160vb–161rb). Blank: 161v.

Bibl. T. K. Abbott, *Catalogue of the Manuscripts in the Library of Trinity College, Dublin*, Dublin, 1900, 62; M. L. Colker, *Trinity College Library Dublin. Descriptive Catalogue of the Mediaeval and Renaissance Latin Manuscripts*, London-Aldershot, 1991, I, 821–24; Lemay 1995–1996, IV, 81–82.

- 159va–160rb ‘De cometis sive stellis comatis et diversis significationibus earum secundum signa in quibus apparuerunt. Ptolomeus dixit quod stelle cum caudis sunt IX — in regibus et divitibus apparebit.’
 = **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

160rb–160vb ‘De hora conceptionis et nativitatis. Dixerunt Ptolomeus et Hermes quod Lune locus in hora — et hoc expertus fuit multociens.’
 = **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...***
(B.5). The text is followed (160vb–161rb) by a chapter dealing with the same topic: ‘De mora nati in utero matris. Cum Luna fuerit in gradu ascendentis hora infusionis — gradum Arietis pervenerit fetus nascetur. Idem est in aliis. Explicit liber. Deo gratias.’ No glosses.

Dublin, Trinity College, 441

s. XIV¹ (astronomical calculations for 1317, by the scribe, f. 68r; tables 1254–1329 f. 128r–134v; text composed in 1315 f. 253v–270r) and XV^{med} (f. 60r–63v, added on originally blank folia).
Or.: England, perhaps London (note on the distance between London and Toledo f. 180r; tables giving the altitude of the Sun for London and Oxford f. 232r; see also f. 253v–270r).
Prov.: ‘Liber W. Dussyng’ [William Dussing], 16th c. (f. 1r and 2r); John Dee in 1553 (f. 2r).

Parchment, 271 f., one main hand, except for 15th-c. additions f. 60r–63v.

Arithmetic, theology, computus, astronomy, astrology and divination: table of contents (1r); Boethius, *De arithmetica* (2r–44v); Gerbert of Aurillac, comm. on Boethius’s *De arithmetica*, excerpt (45r–45v); Boethius, *De trinitate* (46r–49v); Boethius, *De praedicatione trium personarum* (49v–50r); Boethius, *De persona et naturis Christi contra Nestorum et Eutychem* (50r–58r); Boethius, *De hebdomadibus* (58v–60r); ***Ptolemaica* (60r–63v)**; *Ars precisa et perpetua ad capiendum coniunctiones. Refecionis divini pabuli dispensatori...* (64r–68r); ‘Ad inveniendum eclipsim Solis et Lune sine tabulis...’ (68v); Robert Grosseteste, *De sphaera* (69r–74v); diagrams showing the five essences (75r); mathematical and astronomical notes (76v); table from Boethius’s *De arithmetica* (77r); Robert Grosseteste, *Compotus* (77v–98r); computus tables (98v–99r); comm. on Alexander of Villedieu’s *Carmen de algorismo* (99v–104r); mathematical notes (104r); ‘Que vel dimissa sunt in alio tractatu compoti vel minus lucide vel aliter dicta quam ibi hic reperri possunt. Compotus igitur est scientia considerans tempora...’ (104v–111r); ‘Tabula multiplicacionis minuciarum secundum Albategni’ (111v); ‘Nota quod piricheus regularis...’ (111v); ***Ptolemaica* (112r–115r)**; Theodosius, *De habitationibus* (115r–118v); mathematical problems ‘Si paribus vel disparibus constant...’ (118v–119r); two computus diagrams (119v); ‘De theoria planetarum. Quoniam de motibus planetarum...’ (120r–127v); astronomical tables (128r–207v), opening with syzygy tables for 1254–1329 (128r–133v); ‘Ad verificacionem vel composicionem tabule equacionis Solis...’ (208r–212r); ***Ptolemaica* (212v–227r and 227r–227v)**; Prophantius Judeus, *Quadrans novus*, beginning only (228r); astronomical diagrams and tables (228v–232r); chiromancy in French (232v–234r); chiromancy ‘Planicies omnis chiros 3 lineas habet naturales...’ (234r–235r); oniromancy ‘Cum in veteri testamento exposiciones diversorum sompniorum...’ (235r–238v); ‘De tonitruis. In quocumque signo tonuerit sive in die sive in nocte...’ (238v–239r); Pseudo-Albertus Magnus, *Physionomia*, attr. Thomas Aquinas (239r–240v); ‘Cum fulgur et candor stelle ab oriente progrediens...’ (240v–242r); ‘Sanguis bonus in minutis debet esse rubei...’ (242r–243r); mathematical problems ‘Incipiunt quedam principia necessaria ad casus inquirendos secundum algorismum. Tria grana ordeii...’

(243r–252v); chiromancy ‘Secantur sciencie inter se quemadmodum et res ex quibus sunt... Explicit opus admirabile ciromancie compilatum per R. de W. de Florenzia anno domini M^oCCCXV, die XXXI Ianuarii apud castrum de Cornibort in Anglia’ (253v–270r); notes of medicine (270r–270v); drawing of a hand and notes of chiromancy, added (271r). Blank: 1v, 75v–76r, 229v–230r, 253, 271v.

Bibl. T. K. Abbott, *Catalogue of the Manuscripts in the Library of Trinity College, Dublin*, Dublin, 1900, 69; Kristeller 1963–1992, III, 193 (D 4.27); Roberts/Watson 1990, 124 (M137); M. L. Colker, *Trinity College Library Dublin. Descriptive Catalogue of the Mediaeval and Renaissance Latin Manuscripts*, London-Aldershot, 1991, II, 871–83; *CBCM*, I, 251–52; Lemay 1999, I, 242; Panti 2001, 236–37 and 250–51; Lohr/Nothhaft 2019, 28; Lohr 2025, 90*-91*.

- 60r–63v ‘Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter — iuncti fuerint planete existenti sub terra elevabitur.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, v. 1–54, without the preface and the commentary. No glosses.
- 112r–115r ‘Liber Thebith filii Chore de hiis que indigent expositione antequam legatur Almagest<i>. Equator diei est circulus maior qui describitur super 2 polos — in opposicione Solis aut propinqui opposicioni erunt retrogradi. Explicit.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. A few short glosses by a later hand.
- 212v–227r ‘Commentum Haly [title added in upper margin by a later hand]. Mundanorum ad hoc et illud mutacio corporum celestium mutatione... Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Ptholomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — et quanto melius quivimus exposuimus. Explicit commentus.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), ‘Mundanorum’ version (C.3.1.3)**. Two glosses by a later hand f. 212v and one gloss by the scribe (?) f. 220v.
- 227r–227v ‘Ptho<lomeu>s in hoc libro tricas et tricarum nomina ponit... Stelle cum caudis sunt 23, quas si Ptho<lomeu>s omittit sunt 9 — in regibus et divitibus apparebit. Et hec de cometis breviter distinximus.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Edinburgh, Royal Observatory, Crawford Collection Cr. 3.29

s. XIVⁱⁿ (1317 for f. 2–15, cf. f. 15vb: ‘Explicit Quadripartitus Iohannis Yspalensis cum Dei auxilio die Sabbati III die Augusti annis Christi currentis 1317. Amen’). **Or.:** Italy.

Parchment, 22 f., MS made of two parts (f. 1–15 and 16–22), each copied in a single hand.

Astrology and astronomy: Thebit Bencora, *De imaginibus* (1ra–2ra); **Ptolemaica** (2ra–3ra); Pseudo-John of Seville, *Epitome totius astrologie* (4ra–15vb); Sacrobosco, *De sphaera* (16ra–22rb). Blank: 3v, 22v. According to Ker, f. 1–15 form one MS with Edinburgh, RO, Crawford Collection Cr. 3.12, which contains *Theorica planetarum Gerardi* (1r–3v) and Pseudo-Messahallah's *De compositione astrolabii* (4r–10r) (on this MS, see Ker, 563).

Bibl. N. R. Ker, *Medieval Manuscripts in British Libraries*, II, Oxford, 1977, 570.

2ra–3ra ‘Dixit Alburahet Bonfelith: Quia omnes homines orientales (!) operantur (!) per has y<magines> et operantur et non curant de aliis — et impetrabis ab eo quod animus tuus desiderat. Amen.’
 = **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14).** No glosses.

Eger, Főegyházmegeyei Könyvtár, U₂ VI 1

s. XIV.

Paper, 171 f., a single hand.

Computus, arithmetic, astronomy and astrology: Petrus de Dacia, *Kalendarium* (1r–8v); Alexander of Villedieu, *Massa compoti* (9r–16r); Alexander of Villedieu, *Carmen de algorismo* (16v–20v); Sacrobosco, *Algorismus* (21r–28r); Sacrobosco, *De sphaera* (28r–42v); *Algorismus minutiarum* (42v–44v); Sacrobosco, *Computus* (44v–70v); Robertus Anglicus, *Quadrans vetus* (70v–76r); solar tables (76v–78v); Pseudo-Messahallah, *De compositione astrolabii* (79r–97v); *Theorica planetarum Gerardi* (97v–106r); Pseudo-Thebit Bencora, *De motu octave spere* (106r–110r); **Ptolemaica** (110r–114r); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (114r–116r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (116r–118r); Johannes de Harelbeke, *Tractatus de spera solida* (118r–131v); Prophatius Judeus, *Almanach* (132r–170v); table: elections from the aspects of the Moon with the other planets (171r–171v).

Bibl. Kristeller 1963–1992, IV, 302. Menso Folkerts kindly put at my disposal his unpublished description of the MS.

110r–114r ‘Incipit liber Thebith Bencorath de hiis que indigent expositione antequam legatur Almagestum. Equator diei est circulus maior — in oppositione Solis aut propinqui opposite erunt retrogradi. Expletus est liber Thebith filii Core de hiis que indigent exponere antequam legatur Almagestum.’
 = **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Erfurt, Universitäts- und Forschungsbibliothek, Dep. Erf. CA 2° 299

s. XIII^{ex}–XIVⁱⁿ. **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Parchment, 93 f., a single hand.

Ptolemaica (single text).

Bibl. Schum 1887, 205.

1ra–93vb ‘Scire et intelligere gloriosum est quia omnis sapiencia est a Deo... (1rb) Verba que dixit Ptho<lomeus> sapientissimus in arte iudiciorum astronomie... (2ra) Capitulum primum primi tractatus libri 4 partium Tholomei. Res, o Misori, quibus proficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — (91vb) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Et sic est finis liber 4 parcium Ptholomei Pheludiani. Amen. Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quidquid locuti sumus in eis, et prima est nati<vi>tas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Deo gratias. Finito libro. Sit laus et gloria Cristo. Amen.’
= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 1r–1v; Haly’s preface, 1ra–2ra; I, 2ra–28vb; II, 28vb–50rb; III, 50rb–76va; IV, 76va–91vb; Haly’s appendix, 91vb–93vb. A few marginal notes by the scribe.

Erfurt, Universitäts- und Forschungsbibliothek, Dep. Erf. CA 2^o 375

s. XIV² (probably in or shortly after 1369 for the sections copied by Johannes de Wasia). **Or.:** f. 1–17, 85–137 (including the Ptolemaic sections), 149rb–150ra and 169vb–170 at least were copied by Johannes de Wasia, most probably in Paris (cf. f. 85r–103r below). Johannes de Wasia is known to have been in Paris between 1369 and 1383, and the paper and ink of the Ptolemaic sections are very similar to those used by him in his autograph *Annotationes in Almagesti* (MS $\rightarrow$ Erfurt, UFB, Dep. Erf. CA 4^o 349, f. 66r–77v), put together in Paris probably in or shortly after 1369. **Prov.:** Amplonius Rating de Berga (c. 1365–1435), who probably acquired the MS from Johannes de Wasia’s heirs (cf. MS Erfurt, UFB, Dep. Erf. CA 4^o 349); Erfurt, Collegium Porta Coeli in 1412.

Paper, 170 f., the MS seems to have been copied by three hands: I (Johannes de Wasia), f. 1–17, 85–137, 149rb–150ra and 169vb–170; II, f. 18–84; III, f. 138–149rb and 150ra–169va, but Johannes de Wasia’s script is versatile and it is possible that he actually copied the whole MS. A section may be missing after f. 84v, at the bottom of which we read ‘Incipit septimus liber Euclidis.’ One or several folia are missing between f. 137 and 138.

Mathematics and astronomy: Thomas Bradwardine, *Geometria speculativa* (1r–15v); Thomas Bradwardine (?), *Arithmetica* ‘Horum que sunt aliud est continuum...’ (15v–17v, continued on 88v–92v); Euclid, *Elementa*, ed. Campanus of Novara, Books I–VI (18r–84v); **Ptolemaica** (85r–88r); Thomas Bradwardine (?), *Arithmetica* (88v–92v, see 15v–17v above); **Ptolemaica** (93r–112v, 113r–126v and 127r–129v); ‘Aux et oppositum augis, centrum terre et centrum ecentrici...’ (131ra–134rb); ‘Tres circulos in astrolapsu descriptos...’ (135ra–135vb); Henricus

Selder, *Canones tabularum Alphonsinarum*, excerpts ‘Et ut melius intelligamur qualiter coniunctiones Saturni et Iovis...’ (136ra–137rb); ‘Omnis trianguli cuius latera sunt nota...’, end gone (137va–137vb); comm. on Sacrobosco’s *De sphaera*, beginning gone (138ra–169va); note ‘Ex nono (?) planete quandoque sunt propinquiores, quandoque autem remotiores...’ (169vb); ‘Melius est scire modicum de rebus nobilioribus quam multum de rebus vilioribus...’ (170r–170v). Blank: 95v, 108r, 130, 134v.

Bibl. Schum 1887, 259–61; Zepeda 2013, 184–85; Zepeda 2018, 77–78; Georges (forthcoming).

- 85r–88r and 93r–112v ‘Summa vero principiorum que oportuit nos incipere — duobus angulis rectis. Illud est quod declarare nos oportuit.’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, I.9–II.12. Tables are incomplete or missing. F. 101, of smaller size, is an insertion containing notes on the *Almagest* by the scribe. Substantial glosses by the scribe, including excerpts from the *Almagesti minor* (see below). These glosses are clearly related to the text that follows on f. 113r–126v (see Zepeda 2013, 170 and 184; Zepeda 2018, 78).
- (85r–103r) ‘Parvi Almagesti breviato cum commento. Data circuli dyametro latera decagon — non erunt ascensiones omnium.’
= ***Almagesti minor* (C.1.4)**, excerpts I.1–14, I.17, II.2–5 and II.14–15, as glosses to the *Almagest* (see above) on f. 85r–86v, 93v–94v, 97r–97v and 103r. These glosses share several unique features with the glosses found in MS $\rightarrow$ Paris, BnF, lat. 16200 and are likely to have been copied from that MS, which was kept in the library of the Sorbonne.
- 113r–126v ‘Commentum super Almagesti Ptholomei [title in the upper margin by the scribe]. Data circuli dyametro... Pro probacione istius proposicionis supponitur quod linea divisa — erit angulus DEA notus orientalis super horizontem, quod est propositum.’
= **Johannes de Wasia (?), *Commentum super Almagesti Ptholomei* (C.1.10)**. No glosses.
- 127r–129v ‘Commenta super Almagesti Ptholomei [title in the upper margin, possibly by the scribe]. Data circuli dyametro etc. C dividet GD in 2 equalia — patet compositio tabularum ascensionum in spera recta. Explicit prima dictio Almagesti cum notabilibus et regulis ad intellectum eius necessariis commentata.’
= **Johannes de Wasia (?), *Commenta super Almagesti Ptholomei* (C.1.11)**. No glosses.

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s. XIV (early 14th c. for f. 48–62 acc. Schum, in any case before 1374, cf. f. 64r–64v; f. 21r–35r copied in 1323, cf. f. 35rb; f. 1–20 copied in 1434, cf. f. 20rb: ‘In crastino nativitatibus beati Iohannis anni 1434^{ti}’). **Or.:** f. 21r–35r (and, probably, f. 35v–47r) were copied in Paris by John of Saxony, cf. f. 35rb: ‘Scripte Parisius per manum Iohannis de Danecowe anno domini

M^oCCC^oXXIII^o in die cathedra Petri.’ **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Parchment, I + 64 f. Composite MS made of three parts bound together by the 15th c.: I, f. 1–20; II: f. 21–47 (two hands, f. 21r–35r and 35v–47r, or, more probably, a single hand, in cursive for f. 35v–47r, as suggested by Husson/Saby); III: f. 48–64 (one main hand, with additions by at least two hands f. 62va–64v).

Astronomy and astrology: table of contents, 15th c. (Iv); Alpetragius, *De motibus celorum* (1ra–20rb); ‘Planicelium vero componitur ex eis que sunt diversorum operum... Explicit tractatus Iohannis Vimundi de floribus illorum que per instrumentua spere signorum possunt inveniri ad facienda iudicia astronomica secundum intentionem summi Ptholomei Feludiensis’ (21ra–22ra); John of Ligneres, *Canones primi mobilis* (22ra–35ra); John of Murs, notes of mathematics and astronomy (35v–38rb), including *Demonstratio quantitatis et figure maris aenei Salomonis* (36ra–36va); John of Ligneres, *Algorismus de minutiis* (38va–40vb), interspersed with multiplication tables (39v–40r and 41r); astronomical tables (41v–47r), including ascension tables for Cremona (42v–43r); Albumasar, *Flores* (48ra–54vb); **Ptolemaica (54vb–62va)**; ‘Nota quod Luna perambulat circulum brevem, id est episcicum, XXVII diebus...’ (62va–63ra); star table verified 1340 (63v); fragments of astronomical tables for 1376–1378 and 1374 (64r–64v). Blank: Ir, 20v, 47v.

Bibl. Schum 1887, 262–64; Lemay 1999, I, 242–43; M. Husson, M.-M. Saby, ‘Le manuscrit Erfurt F. 377 et l’astronomie alphonisine parisienne’, *Micrologus* 27 (2019), 205–34; J. Chabás, M.-M. Saby, *The Tables of 1322 by John of Lignères. An Edition with Commentary*, Turnhout, 2022, 33–34.

54vb–62va ‘<D>ixit Ptholomeus: Iam scripsi tibi, Yesure, et libros de hoc quod operantur stelle in seculo... Scientia stellarum ex te et illis est... Quod dixit Ptholomeus, ex te et illis, significat quod qui res futuras — (62rb) quanto melius qui vivimus (!) exposuimus. Pth<olome>us: Iste cum caudis sunt VIII — in regibus et in divitibus apparebit. Et non intelligas solum hoc multis terris sed etiam in aliis secundum divisionem signorum quia diversa super diversas regiones habent signare. Explicit Centologium (!) Ptholomei commentatum ab Hely philosopho.’

= **Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), ‘Mundanorum’ version (C.3.1.3)**, in ‘Mundanorum 2’. The text ends with Pseudo-Ptolemy’s *De cometis* (B.4) on f. 62rb–62va (see below). A few short marginal notes by the scribe.

62rb–62va ‘Pth<olome>us: Iste cum caudis sunt VIII — in regibus et in divitibus apparebit.’

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.

Erfurt, Universitäts- und Forschungsbibliothek, Dep. Erf. CA 2^o 379

s. XIV². **Or.:** English hands. **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Parchment, 160 f., several hands, decorated initials.

Astrology: ***Ptolemaica* (1r–92v and 93r–99r)**; John of Eschenden, *Summa iudicialis de accidentibus mundi* (99va–159ra). Blank: 159v–160v.

Bibl. Schum 1887, 265–66; Lemay 1999, I, 339–40.

1ra–92va ‘Dixit Egidius de Tebaldis Lombardus de civitate Parmensi. Prologus. Scire et intelligere gloriosum est quia omnis sapientia est a Deo... Tractatus primus glose Haly Abenrudiani super prima parte libri quadripartiti Ptholomei Pheludiani. Dixit Haly: Verba que dixit sapientissimus Ptho<lome>us in arte iudiciorum super hiis... (1vb) <R>es, o Misori, quibus proficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — (89vb) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Et est finis (?) liber 4 parcium Ptho<lomei>. (90ra) Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quidquid locuti sumus in eis, et prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Deo gratias. Amen.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).**

Translator’s preface, 1ra; Haly’s preface, 1ra–1vb; I, 1vb–21rb; II, 21rb–44rb; III, 44rb–71rb; IV, 71rb–89vb; Haly’s appendix, 90ra–92va. A few marginal notes by a contemporary hand from f. 58r.

93ra–99rb ‘Mundanorum ad hoc et ad [blank] mutatio ex corporum celestium mutatione procedit, causas que rerum rimaturus primo corpora celestia contemplari oportet. Ptholomeus: Item premisi libros in quibus tractavi de impressionibus planetarum in hoc mundo... Scientia astrorum ex te et illis nec convenit peritum illorum prophetare... Expositio. Quod dixit Ptho<lome>us, ex te et illis, significat quod cum qui (?) res futuras prescire vult — (99ra) et quanto melius quivimus exposuimus. Dixit Ptho<lome>us: Stelle cum caudis 9 — in regibus et divicibus. Explicit Centiloquium (!) Ptho<lome>i qui est liber anphorismorum centum propositionum. Deo gracias.’

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*,**

‘Mundanorum’ version (C.3.1.3). The opening sentence is from ‘Mundanorum’, v. 1–21 from the ‘Iam premisi’ version (C.3.1.4) and v. 22–100 from ‘Mundanorum 2’ (same version in Erfurt, UFB, Dep. Erf. CA 4^o 376 and Melk, SB, 601). The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 99ra–99rb (see below). No glosses.

99ra–99rb ‘Dixit Ptho<lome>us: Stelle cum caudis 9 — in regibus et divicibus.’

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.

- 99rb 'Dixit Ptho<lome>us et Hermes quod Lune locus in hora — et hoc expertus fuit multociens. Laus Deo omnipotenti qui vivit et regnat.'
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.

Erfurt, Universitäts- und Forschungsbibliothek, Dep. Erf. CA 2° 380

s. XIV². **Or.:** probably Erfurt. **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Parchment, 145 f., several hands, one of which copied f. 131–142.

Astronomy, optics, mathematics, physics and astrology: Thaddeus of Parma, *Expositio super theorica planetarum* (1ra–28vb); Henry of Langenstein, *Questiones super perspectivam*, attr. Nicole Oresme (29ra–40vb); astronomy 'Ad laudem et ad gloriam beate et in te...' (41ra–41va); Themo Judei, *Questio disputata in Erfordia apud Scotos de motu Lune* (42ra–48ra); Thomas Bradwardine, *Tractatus proportionum* (49ra–58rb); diagram: proportions (58v); Jordanus de Nemore (?), *Liber de ponderibus* (59ra–60rb); 'Queratur circa porporciones utrum porporcio velocitatum...' (67ra–83vb); 'Consequenter circa ultimum capitulum textus de porporcionibus queratur utrum velocitates motuum circularium...' (84ra–92vb); comm. on Sacrobosco's *De sphaera* 'Res omniformes ex quibus sciencia perficitur sunt due...' (93ra–122ra); 'Circa tractatum de spera primo queritur utrum diffinicio spere...' (123ra–130vb); ***Ptolemaica* (131r–140r, 140r–140v and 140v)**; Thebit Bencora, *De imaginibus* (140v–142v). Blank: 48v, 60v–66v, 122v, 143–145.

Bibl. Schum 1887, 266–68.

- 131r–140r 'Dixit Ptolomeus: Iam scripsi sunt tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum et ex te et illis est... <Q>uod dixit Ptolomeus, ex te et aliis (!), significat quod qui res futuras cognoscere desiderat — Et ego Deum precor ut te diligit. Et perfecta est huius libri translatio 17 die mensis Marcii, 12 die mensis Gumudi (?) secundi anno Arabum 5302 (!).'
- = **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. A couple of marginal notes by the scribe.
- 140r–140v 'Incipit liber cometarum Ptolomei cum commento Haly [title added in the margin by the scribe]. Ptolomeus dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit.'
- = **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.
- 140v 'Emendatio commentii propositionis 51 huius Centiloquii [title added in the margin by the scribe]. <D>ixit Ptolomeus et Hermes quod locus Lune in hora in qua — et hoc expertus fui multociens. Explicit. Deo laus et gloria.'

= **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5). No glosses.

Erfurt, Universitäts- und Forschungsbibliothek, Dep. Erf. CA 2° 382

s. XVⁱⁿ (copied in 1413, see colophon). **Or.:** copied by 'Io., deacon of Neuhausen' (colophon), i.e. Johannes de Wachenheim, deacon of the church St Cyriacus in Worms-Neuhausen. Johannes de Wachenheim graduated at the University of Prague in 1381, matriculated at the University of Heidelberg in 1386 and is known as the author of a *Tripartitum chordarum* in 1413 (Vatican, BAV, Pal. lat. 1345, f. 1r–14r, see Schuba 1992, 13) and of several astronomical and works extant in MS ^oVatican, BAV, Pal. lat. 1368. **Prov.:** Erfurt, Collegium Porta Coeli.

Paper, 122 f., a single neat hand.

Ptolemaica (single text). Blank: 1–2, 112v–122v.

Bibl. Schum 1887, 268.

3r–112r 'Incipiunt flores Geber in et super astronomia. Et capitulum primum premittens generalia pro intellectum libri. Scientia species habet quarum melior post scientiam — sunt digniores ut evanescant et destruantur. Completa est eius declaratio. Deo laus per omnia. Explicit liber Geber in astronomia 1413^o die XX Novembris per me Io<hannem> decanum Nuhusensem.'
= **Geber**, *Liber super Almagesti* (C.1.2). Preface, 3r–4v; I, 4v–16r; II, 16r–30r; III, 30r–35r; IV, 35r–46r; V, 46r–65r; VI, 65r–81v; VII, 81v–97v; VIII, 97v–103v; IX, 103v–112r. Occasional marginal notes by the scribe.

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s. XIV (1363 for f. 83–116, cf. f. 116vb: 'Completus est sub anno domini 1363^o'). **Or.:** England? (Schum). **Prov.:** given by Henricus Runen (d. 1473) to the Collegium Porta Coeli in Erfurt (cf. inner front cover: 'Hunc librum dedit mag<ister> Henricus Runen ad librariam Collegii Porte Celi').

Paper, 164 f. (new foliation which replaces the former modern foliation used by Schum), several similar hands, painted and/or decorated initials throughout, reserved initials f. 83–116.

Astrology and astronomy: **Ptolemaica** (1r–52v); Leopold of Austria, *De astrorum scientia*, excerpt from Book VI (53ra–55rb); 'Nota quod quando Luna movetur ad augem sui...' (54rb–56va); astronomical notes with figures (57r–58v); Alcabitius, *Introductorius* (59r–78v); comm. on Alcabitius's *Introductorius* 'Scientia namque stellarum ex te et ex illis est...' (83ra–116vb); **Ptolemaica** (117ra–126vb); astrology 'Cum in questione infirmi forme fuerint intelligentes iudica bonum...' (127ra–134vb); **Ptolemaica** (141ra–154rb); short text, crossed out (154rb–154va); astrology 'Si aliquis inveniatur ad quem quis vadit...' (157ra–162ra). Blank: 79–82, 135–140, 155–156, 162v–164v.

Bibl. Schum 1887, 269–70; Lemay 1999, I, 298–99; Zepeda 2018, 61–62.

- 1r–52v ‘Omnium recte philosophantium verisimilibus coniecturis credibilibus — tenebrarum sic se habent.’
= *Almagesti minor* (C.1.4). No glosses. Short marginal notes by the scribe f. 1v and 51v.
- 117ra–126vb ‘Scientia stellarum ex te et illis est, hoc est ex tua experientia et illorum efficientia et quidam habent illorum prescientiam per inspirationem divinam et scientia ista est inter necessitatem... Quod dicit Pthol<lome>us, ex te et illis, significat quod qui res futuras scire desiderat — motus circularis et planetarum aspectibus. Explicit Centiloquium Ptholomei.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, with numerous variants and additions. No glosses.
- 141ra–154rb ‘Incipit commentum Hali supra Centilogium Ptolomei. Dixit Ptolomeus: Iam scripsi tibi, Iesure, de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Mundanorum mutatur ad hoc et ad illud celestium corporum mutationem... Doctrina stellarum ex parte que ex illis est. Nec est doctrina in eis ut propheres (?) formam... (141rb) Dicit Ptolomeus, ex te et ex illis est, significat quod qui res futuras scire desiderat — et ego Deum deprecor ut te dilligat (!). Et perfecta est huius libri translatio tertia die mensis Martii et secunda die mensis Gimedi (!) secundi anno Arabum 530. Explicit Centilogium Ptol<ome>i.’
= **Abuiafar Hamet filiis Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). Two short marginal notes by the scribe f. 149r and 149v.

Erfurt, Universitäts- und Forschungsbibliothek, Dep. Erf. CA 2° 393

s. XIV^{ex}. **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Parchment, 80 f., two hands (f. 1–50 and 52–80).

Optics, astronomy and geometry: Roger Bacon, *De perspectiva* (1ra–22rb); Bernard of Verdun, *Tractatus super totam astrologiam* (22va–43rb); notes on the distances between the celestial spheres (43v); chronology from Creation to Constantine ‘Divinarum scripturarum expositio omnis secundum triplicem sensum...’ (44ra–50vc); Dominicus de Clavasio, *Practica geometrie* (52r–62r); *Ptolemaica* (63ra–80vb). Blank: 51, 62v.

Bibl. Schum 1887, 275–76; Zepeda 2013, 185.

- 63ra–80vb ‘<D>ata circuli dyametro... Pro probacione istius primo supponitur quod linea divisa — angulus DEA notus orientalis super orizontem, quod fuit propositum.’

= **Johannes de Wasia (?)**, *Commentum super Almagesti Ptholomei* (C.1.10). No glosses.

Erfurt, Universitäts- und Forschungsbibliothek, Dep. Erf. CA 2° 394

s. XIV¹ (after 1331, date of John of Saxony's comm. on Alcabitius; table dated 1347 f. 119ra). **Or.:** probably England. **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Parchment, 167 f., several similar hands, one of which copied f. 2r–57v and perhaps other parts, decorated initials, homogeneous decoration throughout.

Astrology and astronomy: Zael, *Quinquaginta precepta*, beginning gone (1ra–1vb); **Ptolemaica (2ra–57vb)**; fragment of an astronomical or astrological text, partly illegible (58ra–58rb); Pseudo-Messahallah, *De compositione astrolabii* (60ra–67rb); Pseudo-John of Seville, *Epitome totius astrologie* (68ra–79ra); Haly Embrani, *De electionibus horarum* (79ra–85va); *Capitula Almansoris* (85vb–87ra); Michael Scot, *De noticia ordinum stellarum fixarum celi seu ymaginum* 48 (87rb–91vb); Campanus of Novara, *Theorica planetarum* (92ra–110vb), followed by an empty circular diagram (111r); Johannes de Sicilia, *Expositio super canones tabularum Arzachelis sive Toletanarum* (111va–119rb); equatorium 'Quoniam experimentum sermonum verorum...', with a table dated 1347 (119rb–119vb); canons of Toledan tables (120ra–128va); *Theorica planetarum Gerardi* (128va–130vb); Prophatius Judeus, *Quadrans novus* (130vb–135rb); unfinished astronomical diagram (135v); Guillelmus Anglicus, *Astrologia* (136ra–140vb); 'Incipit de mensurationis Iohannis de Lineriis [John of Ligneres]...' (140vb–141rb); Messahallah, *Epistola de rebus eclipsium* (141rb–141vb); 'Kardaga est portio circuli...' (142ra–144vb); Giles of Lessines, *Summa de temporibus*, fragment of Book III (145ra–147vb); Robert Grosseteste (?), *De impressionibus aeris*, attr. 'Haly' (147vb–148ra); Petrus de Dacia, *Expositio super Algorismum* (148rb–154vb); John of Saxony, comm. on Alcabitius's *Introductorius* (155ra–167va); onomancy, calculus of the victorious and the vanquished 'Omnis sapientia a domino Deo...' (167va–167vb); table of contents (inner back cover). Blank: 58v–59v, 67v.

Bibl. Schum 1887, 276–78; Pedersen 1983–1984, I, 73; F. S. Pedersen, *Scriptum Johannis de Sicilia super canones Azarchelis de tabulis Toletanis*, København, 1986, 28–29; Pedersen 2002, I, 107.

2ra–57vb 'Scire et intelligere gloriosum est quia omnis sapientia a Deo est (rubric). Scire et intelligere gloriosum est quia omnis sapientia a Deo est... (2rb) Tractatus primus gloze Haly Abenrudiani super prima parte Quadripartiti Ptho<lom>ei Pheludiani. Haly: Verba que dixit sapientissimus Ptholo<me>us in arte iudiciorum astronomie... (2vb) Ptholomeus: Res, o Mizori, quibus proficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — et si Sol et infortune dominabuntur in istis predictis locis et fuerint...'

= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2). Translator's preface, 2ra–2rb; Haly's preface, 2rb–2vb; I, 2vb–21ra;

II, 21ra–35va (ending in II.11: ‘Et totum signum Geminorum facit temperantiam...’, with the rest of f. 35va and 35vb left blank); III, 36ra–51rb (beginning in III.7: ‘... inpedimentum pestilentie non per rem apparentem sicut res...’ with note by the scribe in upper margin ‘Hic deficient quindecim folia’); IV, 51rb–57vb (ending abruptly in IV.6 at the bottom of f. 57v). No glosses. Text (fainted) added by the scribe in the margins of f. 36r and at the bottom of f. 36v–42v.

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s. XIV² (copied in 1373, cf. colophons f. 121ra and 214r; mentions of the years 1372 (f. 6r) and 1373 (f. 36r), prediction of a lunar eclipse for 23 August 1374 (f. 45v), revolution horoscopes for 1373 and 1374 (f. 46r) and almanac 1374–1380 (f. 140v–142v). **Or.:** England (Schum). **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Paper, 261 f., several similar hands.

Astronomy, astrology, optics, music, arithmetic and geometry: canons of Alfonsine tables ‘Numerum ... (?) ... Expliciunt canones super tabulas Alphoncii regis’ (2ra–5vb); astronomical notes (6r); Alfonsine tables (6v–29v); star table (30r); ‘Incipit mensura ad faciendum opus organicum...’ (30va–30vb); ‘Notandum quod corpus humanum est ordinandum ad similitudinem circuli sive zodiaci...’ (31ra–32vb); ‘Scribo naturas planetarum...’ (33ra–33rb); verses on the 12 months (33va–33vb); ‘In nomine domini Ihesu volo aliquid de scientia mea exponere...’ (34ra–35vb); astronomical notes (36r); astronomical tables (36v–39v); ‘Tempus quarti aspectus Solis et Lune invenire scias quod quartus aspectus... eclipsis figuram autem facies secundum doctrinam magistri Iohannis de Lineriis, a quo scienciam meam habeo’ (40ra–43vb); astronomical tables (43vb–45v); four horoscopes, including the revolutions for 1373 and 1374 (46r); astronomical tables and notes (47r–59r); Alcabitius, *Introductorius* (60ra–74va); table: zodiacal melothesy (74vb); circular diagram: essential dignities of the planets in each of the 12 signs (74vb); Firminus de Bellavalle, *De mutatione aeris* (75ra–98ra); table: geographical coordinates of cities (104rb); star table (104v–105v); ‘Astrolabium constituitur hoc modo: recipe tabulas...’ (121rb–123vb); star table, with notes (124r); Perscrutator, *De impressionibus aeris* (98ra–104ra); **Ptolemaica (106ra–121ra)**; Thebit Bencora, *De imaginibus* (124va–126rb); Messahallah, *Epistola de rebus eclipsium* (126va–127rb); Alkindi, *De mutatione temporum* (127va–134rb); Messahallah, *De cogitatione* (134rb–135ra); Messahallah, *Liber interpretationum*, incomplete (135ra–135vb); Firminus de Bellavalle, *De mutatione aeris*, ch. 1 (139ra–140va); planetary almanac 1374–1380 (140v–142v and 148v); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (143ra–147va); notes of geometry (147v–148r); two horoscopes (148r); end of the planetary almanac, cf. f. 140v–142v (148v); astronomical tables (149r–149v); Haly Abenragel, *De iudiciis astrorum*, abrupt end (150ra–185vb); on metals ‘Tempus est nunc consequenter de metallorum naturis inquirere. Post lapidum investigatam...’, end gone (186ra–192vb); Albumasar, *Flores* (195ra–201ra); **Ptolemaica (201ra–206ra)**; John of Murs, *Musica speculativa* (207r–214r); Boethius, *De arithmetica* (214v–219v); Albohali, *De nativitatibus*, tr. Johannes Toletanus, abrupt end (220ra–225rb); Alfraganus, *De scientia*

astrorum, tr. John of Seville, end missing (228ra–238vb); Johannes Peckham, *Perspectiva communis*, incomplete (239r–245r); notes and diagrams of optics (248v–249v); Dominicus de Clavasio, *Practica geometrie* (250ra–261vb). Blank: 1, 46v, 59v, 136–138, 193–194, 206v, 225v–227v, 245v–248r.

Bibl. Schum 1887, 278–81; Lemay 1999, I, 299–300.

- 106ra–121ra ‘Centiloquium Ptolomei [upper margin, hand of the scribe]. Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc hoc (!) seculo... Scientia stellarum ex te et ex illis est... Quod dixit Pto<lome>us, ex tu (!) et ex illis, quod qui res futuras scire desiderat... (106rb) Primum verbum. Mundanorum mutatio ad hoc et ad illud corporum supercelestialium... Commentum. Doctrina stellarum e parte et ex illis est doctrina mea ut propter hanc formam — (120vb) Et ego Deum precor ut te diligat. Et perfecta est huius libri translatio 17 die mensis Martii, 12 die mensis Gam<er>oisi (?) anno Arabum 532. <S>telle cum caudis sunt 9 — in regibus et divitibus apparebit. Finito libro sit laus et gloria Christo. Amen. 1373^o etc.’
 = **Abuiafar Hamet filii Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**, with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). V. 3 is omitted altogether. The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 120vb–121ra (see below). A couple of short marginal notes by the scribe (?) f. 107r–107v and 108v.
- 120vb–121ra ‘<S>telle cum caudis sunt 9 — in regibus et divitibus apparebit.’
 = **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.
- 201ra–206ra ‘Signorum alia sunt masculini generis, alia feminini, ut Taurus, Cancer — si Saturnus vel Mars, si Sol in... (?)’
 = **Pseudo-Ptolemy, *Iudicia* (B.3)**, breaks off mid-sentence towards the middle of the text after eleven lines on f. 206ra, with the rest of f. 206 left blank. No glosses.

Erfurt, Universitäts- und Forschungsbibliothek, Dep. Erf. CA 4^o 215

s. XIVⁱⁿ. **Or.:** England. **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Parchment, 162 f., several hands.

Medicine and astrology: Bernardus Provincialis, *Commentum super Tabulas Salerni* (1ra–17ra); Johannes de Sancto Amando, *Commentum super antidotarium Nicolai* (22ra–77ra); Gentile da Foligno, *De proportionibus graduum medicinarum simplicium et compositarum* (78ra–79va); ‘Frater Rogerus Bacun [Roger Bacon] de diebus creticis. Ad evidenciam dierum creticorum est notandum...’ (79va–83rb); ‘Incipit tractatus de creticis diebus. Omnis egritudo de qua curatur homo quatuor habet tempora... Explicit tractatus quem fecit frater Rogerus Bacun [Roger

Bacon] de ordine minorum de diebus creticis brevis et utilis ad instanciam cuiusdam medici sibi specialis' (83va–85vb); *Astronomia Ypocratis* (85vb–88va); **Ptolemaica** (88va–89vb); Bartholomeus Pictaviensis, *De crisi et creticis diebus* (90ra–99ra); Urso of Salerno, *Liber de effectibus qualitatum* (99ra–102ra); Galen, *De medendi methodo ad Glauconem* (102ra–103rb); Urso of Salerno, *De effectibus medicinarum* (103rb–103vb); Avicenna, *Canon*, Book II (104ra–141vb); 'Atramentum calcantum vitreolum...' (142ra–148vb); Johannes de Sancto Amando, *Commentum super antidotarium Nicolai*, excerpt (149ra–162ra); notes of medicine (162ra–162vb). Blank: 17v–21r, 77v.

Bibl. Schum 1887, 471–72.

88va–89vb '(88va) <Figure.> (89ra) Hec est figura Tpolomei (!) quam Haly suus comentator primitus sic decripsit. Quando et qualiter acuti morbi debent habere — ut in pluribus ad salutem, set secundum motum proprium Lune fieret in 21 die. Explicit.'

= **Pseudo-Ptolemy, *Propositio Tholomei de crisi* (C.3.3).** No glosses.

Erfurt, Universitäts- und Forschungsbibliothek, Dep. Erf. CA 4^o 349 [Plate 9]

s. XIV (second half for f. 1–77, and more precisely in or after 1368 for f. 34r–47r and in or after 1369 for f. 48r–55, which correspond to the dates of composition of the texts concerned and probably also apply to all sections copied by Johannes de Wasia). **Or.:** Johannes de Wasia copied at least f. 7v–8v, 22v–29r, 33–47, 55v–56v and 65v–77v (f. 1–8 and 18–77 are in his hand acc. d'Alverny/Hudry, 'Al-Kindi', 187), and added titles and notes throughout; f. 78–171 are in several English and French hands. **Prov.:** Johannes de Wasia, who probably assembled the MS; Amplonius Rating de Berga (c. 1365–1435), who bought Johannes de Wasia's library from his heirs in 1402 (Pattin, 307); Erfurt, Collegium Porta Coeli in 1412.

Paper (except f. 78–97 and 160–61, on parchment), II + 171 f. Composite MS made of eight parts: f. 1–77, 78–97, 98–120, 121–132, 133–145, 146–159, 160–161 and 162–171. The first part (f. 1–77) was copied by several hands, including Johannes de Wasia's. The third part (f. 98–120) is also in several hands, one of which copied f. 108–111.

Scientific texts, mainly astronomical and astrological: table of contents, 14th or 15th c. (IIv); 'Declarationes canonum magistri Iohannis de Lineriis super tabulis eiusdem (added title). Circa canonem de inventione locorum planetarum...' (1r–7r); Petrus de Sancto Audomaro, *Tractatus de semissis*, ch. 9 (7v–8r); John of Murs, *Quando octava spera incipit moveri...* (8v); verses with musical notation, in Flemish (9r); copy of a letter addressed by one Johannes 'curatus de Coultz' [Johannes de Wasia?] to an official of Tournai, in which Bruges is mentioned (9v); astronomical note (10r); John of Lignerres, *Canones super Tabulas magnas* (11r–17v); *Astronomia Ypocratis* (18r–22r); Nicole Oresme, *Algorismus proportionum* (22v–28v); Alkindi (?), *De radiis*, excerpts (29r, 33r–33v, 47v, 65v, to be read in the order 47v, 65v, 33, 29r); Jordanus de Nemore, *De plana spera* (30r–32v); Henry of Langenstein, *Questio de cometa* (34r–47r); Johannes de Wasia, *Tractatus de proportionibus* (48r–55r, ed. Pattin); Robert Grosseteste, *De coloribus* (55v); prognostication for 1349

(56r–56v); Thebit Bencora, *De figura sectore*, tr. Gerard of Cremona (57r–65r); **Ptolemaica (66r–74v and 75v–77v)**; ‘Holcoth. Circa distinctionem primam in qua agitur defruui et uti queritur utrum creata voluntas fruendo et utendo sit libera...’ (75r); Alexander of Villedieu, *Massa compoti*, with comm. (78ra–90r); calendar (90v–95r); notes of computus (95v–97v); Pseudo-Albertus Magnus, *Speculum astronomie* (98r–108r); **Ptolemaica (108r–110v)**; astronomical diagrams (111r–111v); Johannes de Harelbeke, *Tractatus de spera solida* (112r–120v); prognostication for the years 1356–1360 ‘Tractatus iudiciorum in revolutionibus et eclipsibus (added title). In laude Dei pii misericordissimi incipit preciosum effectum planetarum prestigium de secretis secretorum siderum...’ (121r–131r); Geoffrey of Meaux, judgement on the great conjunction of 1345 (131v–132v); ‘Tractatus practicans de nativitatibus (added title). In nomine Dei pii et misericordii incipit preciosum nativitatum presagium secundum astronomie principia...’ (133r–143r); notes on fractions (146r–146v); ‘Tractatus directorii significatoris (added title). Recipe tabulam planam...’ (147ra–150ra); ‘Tractatus chilindri (added title). Investigantibus silindri dispositionem...’ (150va–153rb); ‘Exemplum projectionis radiorum. Planetarum sint gradus sextiles...’ (153va–156va); ‘Notandum: Quomodo fit directio significatoris per tabulas. Cum volueris significatorem dirigere...’ (156vb–159vb); Franco de Polonia, *Tractatus de turketo* (160r–161v); astronomical notes (161v); Pseudo-Messahallah, *De compositione astrolabii* (162r–171v). Blank: 10v, 29v, 143v–145v.

Bibl. Schum 1887, 583–87; M.-T. d’Alverny, F. Hudry, ‘Al-Kindi: De radiis’, *AHDLMA* 41 (1974), 139–260: 183–87; Zambelli/Caroti 1977, 125–28; Pedersen 1983–1984, II, 658; A. Pattin, ‘Les Éléments d’Euclide source du *De proportionibus* de Jean de Waes (†1395)’, in *Tradition et traduction. Les textes philosophiques et scientifiques grecs au Moyen Âge latin. Hommage à Fernand Bossier*, eds R. Beyers, J. Brams, D. Sacré, K. Verrycken, Leuven, 1999, 305–21: 307; Paravicini Bagliani 2001, 21; L. Miolo, ‘A New Astronomical Text by Jean des Murs’, *Cahiers de Recherches Médiévales et Humanistes/Journal of Medieval and Humanistic Studies* 42 (2021), 329–59: 343–44.

66r–74v, ‘Pro 12^{mo} 2^e dictionis. Probatur in hac figura <quod> duo anguli — Dato
75v–77v quocumque puncto zodiaco angulum meridiani cum ecliptica invenire. Si
 versus septentrionem.’

= **Johannes of Wasia**, (*Annotationes in Almagesti*) (C.1.9). A few marginal notes by the scribe (Johannes of Wasia).

108r–110v ‘Incipit prohemium libri Almagesti. Quidam vir nomine Abbulgafle (!) in libro suo quem scientiarum electionem et verborum nominavit... (109r) In libro qui dictus est magnum Almagesti quem Ptholomeus — et ponere earum loca in tabulis.’

= **Ptolemy**, *Almagesti*, tr. Gerard of Cremona (A.1.2), preface and chapter index of Books I–VII. No glosses. An incomplete astronomical table for Bruges has been added (by Johannes de Wasia?) on f. 110v.

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s. XVⁱⁿ (copied in or after 1400, see f. 178r–223v). **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Paper, 224 f., a single hand.

Astronomy and astrology: **Ptolemaica** (1r–101v); Campanus of Novara, *Theorica planetarum* (102r–165v); ‘Ad faciendum chilindrum sumatur lignum...’ (166r–168v); Albumasar (?), *Liber similitudinum* (169r–176r); astrological notes ‘Nota: Saturnus assimilatur spleni...’ (176r–177r), ‘Nota quod testimonia planetarum combustorum et retrogradorum sunt falsa...’ (177r) and ‘Herbe planetarum et signorum. Aries salvia...’ (177v); star catalogue verified 1400 ‘Tabula stellarum fixarum equatarum anno Christi 1400’ (178r–223v). Blank: 224.

Bibl. Schum 1887, 597; Benjamin/Toomer 1971, 104–05; Zepeda 2018, 60.

1r–101v ‘Omnium recte philosophantium verisimilibus coniecturis credibilibus — hac latitudine notus est arcus a nodo usque ad terminos eclipticos.’
= ***Almagesti minor* (C.1.4)**, abrupt end in the middle of a sentence in VI.8. No glosses. Occasional marginal notes by the scribe.

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s. XIV^{med} (in or after 1343 for f. 60r–61v). **Or.:** England (Schum). **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Parchment, 156 f., several contemporary hands. Sections are missing between f. 51–52 and between f. 58–59.

Scientific texts: table of contents, 14th c. (inner front cover); Campanus of Novara, *Theorica planetarum* (1ra–22rb); Albumasar, *Flores*, abridged version ‘Cum sint planete 7, Saturnus est omnibus altior...’ (22va–23vb); *experimenta* ‘Suus suo amicus amico Anselmo Ferrarius pro amore felicitatis...’ (24ra–24vb); Marcus Graecus, *Liber ignium* (24vb–26ra); *Secretum philosophorum* (27ra–40vb); **Ptolemaica** (41ra–47rb); *Theorica planetarum Gerardi* (47va–49vb); ‘Incipit tractatus quidam utilis valde ad medicinam. Sciendum quod in prima genitura mundi...’ (50ra–51vb); Messahallah, *Epistola de rebus eclipsium* (52ra–52rb); ‘Quoniam creator vidit sine calore...’ (52va); *theorica planetarum* (53ra–55v); Prophatius Judeus, *Quadrans novus* (56ra–58v); end of a text on the 28 lunar mansions, entitled ‘Tractatus de dispositione segetum in omni tempore anni’ in the table of contents (59ra); *Figure septem planetarum* ‘Antiqui philosophi sapientes in 7 figuris sequentibus occultaverunt...’ (59ra–59vb); canons ‘Ut vera loca cuiuslibet planete scias per tabulas operari...’, with example for the year 1343 and the meridian of Erfurt (60ra–61va); *Si quis per artem geomanticam...* (62ra–68rb, continued on f. 78v–79r); ‘Nota quod de 8 partibus factus fuit homo...’ (68rb); geomancy ‘Acquisitio in Ariete continetur et est aerea, masculina...’ (68va–69rb); ‘Incipit de significatione figurarum in singulis domibus. Tutela exiens in prima significat regem et dignitatem...’ (69rb–70vb); ‘De significatione duodecim domorum. Prima domus habet significatione voluntatem...’ (70vb–74vb); *Ars geomancie* (74vb–78rb); *Si quis per artem*

geomanticam... (78va–79rb, cf. f. 62r–68r above); Campanus of Novara, *De quadratura circuli* (79va–80ra); Robert of Leicester, *De computo* (80rb–85rb); notes of geomancy, astronomy and mathematics (85va–87vb); Guillelmus Anglicus, *De urina non visa* (88ra–89rb); Messahallah, *Liber receptionis* (89va–94ra); Messahallah, *De cogitatione* (94rb–94va); Messahallah, *Liber interpretationum* (94va–95va); Hermes, *Centiloquium* (95va–96va); Zael, *Liber iudiciorum* (96va–113rb), followed by its table of contents (113v); definitions of astronomical terms ‘O fili mi, felicius ut vivas atque cicius...’ (114ra–116va); *Sortes regis Amalrici* (116va–117ra); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (117rb–119vb); *Astronomia Ypocratis* (119vb–121rb); ‘Capitulum in sexta domo de suis questionibus. Hec domus significat infirmitates...’ (121rb–123va); ‘Scito quod omen (!) quod figurant stelle...’ (123va–124vb); table: degrees of the 12 signs, Libra to Pisces (125r–125v); ‘Si fiat questio de nativitate et sint planete in gradibus...’ (126ra–126rb); **Ptolemaica (126rb–126vb)**; Hermann of Carinthia, *Liber imbrum* (127ra–128ra); Jafar, *Liber imbrum* (128ra–131rb); circular diagram: 12 houses and 12 months (131v); ‘Quia divina scriptura utitur altitudine... Explicit tractatus de spissitudine orbium’ (132ra–133ra); notes on the distances between the celestial spheres (133rb); star table (133v); quadrant ‘Quoniam tota doctrina data in quadrato...’ (134ra–135va); John Maudith (?), *Ars et operatio novi quadranti* (135va–141ra); ‘Si prima 6^a quantitatam...’ (141ra–141va); Johannes Peckham, *De spera* (142ra–147rb); *algorismus* ‘Quoniam cuiuslibet quantitatis notitia ex sui relatione ad aliam...’ (147rb–151vb); *Liber novem iudicum*, excerpts ‘Postquam determinatum est de illis que necessaria...’ (152ra–154ra); Richard of Wallingford, *Tractatus rectanguli* (154rb–156ra); table of chords with canon (156rb–156va). Blank: 26v.

Bibl. Schum 1887, 601–06; Clagett 1964–1984, I, xxii; Benjamin/Toomer 1971, 104; Pedersen 1983–1984, II, 733; Lemay 1999, I, 300–02; Panti 2001, 255; Moulinier-Brogi 2011, 203–04.

41ra–47rb ‘Incipit liber fructuum arboris Ptolomei a magistro Iohanne Toletano translatus ab Arabico in Latinum, continens 100 sermones et dicatur Centiloquium. Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... <D>ixit Ptolomeus: Iam scripsi tibi, Iesure, id est domine, libros tractantes de hoc quod operantur stelle in hoc seculo... Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras desiderat prescire — Et ego Deum deprecor ut te dirigat. Et perfecta est huius libri translatio 3^a die mensis Martii, 2^a die Gunedi secundi, anni Arabum 309. Deo gratias et eius pie matris.’

= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, with the propositions from the ‘Mundanorum’ version (C.3.1.3) and from Adelard of Bath’s translation (B.1.1) copied by the scribe in the margins from v. 4 onwards (= ‘threefold’ version). No further glosses.

126rb–126vb ‘Incipit tractatus domini Ruberti Lyncon<iensis> de cometis. Ptholomeus in hoc libro tricas et tricarum nomina ponit... Ptolomeus dixit quod stelle cum caudis sunt 9 — (126va) in regibus et divitibus apparebit. Et hec de cometis breviter discernimus. Trica est ignis sublimatus — qualitas rei future cuius est signum. Explicit tractatus domini Lynconiensis de cometis.’

= **Pseudo-Ptolemy, *De cometis* (B.4)**, attr. Robert Grosseteste. No glosses.

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s. XIII^{ex} (except for f. 33–37, added in the 14th c.). **Or.:** Italy or southern France (Schum), ‘southern’ (Pedersen). **Prov.:** the MS was probably in Paris in the first half of the 14th c. (cf. f. 33r–36r and 98v); Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412. The note ‘Magister Iacobus Publius Florentinus, Italus et Latinus’ on f. Ir may not be related to the MS.

Parchment, 98 f., a single hand (except for f. 33–37), numerous beautifully decorated initials throughout.

Astronomy and astrology: added astronomical notes, 1347 (Iv); Toledan tables (1r–32v); added astronomical tables (33r–36r), attr. John of Ligneres (in the title f. 33r) and to one ‘Johannes de Madenburch’ in a note f. 35v: ‘Nota quod hec tabula facta est per Iohannem de Madenburch ad annum domini 1330 super meridianum Parysiensem’; table: degrees of the 12 signes grouped by triplicity (36v–37r); added astronomical notes (37v); Albumasar, *Introductorium maius*, tr. Hermann of Carinthia (38ra–58rb); canons of Toledan tables (58rb–64ra); Albumasar, *Flores* (64ra–68rb); ‘Capitulum in scientia locorum si aliquid fuerit in eis aut non. Cum hoc volueris, accipe altitudinem et constitue 12 domos...’ (68rb); ‘Cum volueris scire quantitatem longitudinis capitis Arietis et Libre...’ (68rb–68va); ‘Incipit summa Albumazar. Aries est igneum, temperatum effectus et incrementi, masculum, diurnum, colericus...’ (68va–75rb); ‘Apertio portarum dicitur cum coniugitur planeta...’ (75rb–75va); ‘Hic incipit Zahel. Fortior omnibus locis circuli est ascendens...’ (75va–89rb, this text is a compilation only partly based on Zael); **Ptolemaica (89va–94ra)**; Pseudo-Messahallah, *De compositione astrolabii*, chs 1–16 (94ra–95vb), followed without a break by other chapters on the astrolabe ‘Capitulum 14. Sume altitudinis Solis in media die... Finitur liber astrolabii editione Abitricatim de Marcheric, qui dictus est Alaiacherica’ (95vb–97ra); Hermann of Reichenau, *De mensura astrolabii* (97ra–98rb); added astronomical notes, 1342 and 1346–1351 (98r–98v), including ‘Anno domini 1350 perfecti radices ad Parysius’ (98v).

Bibl. Schum 1887, 607–09; Lemay 1995–1996, VII, 8–27; Lemay 1999, I, 340–41; Pedersen 2002, I, 109.

89va–94ra ‘Mundanorum ad hoc et ad illud mutatio corporum celestium mutatione... Scientia stellarum et rerum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Pto<lomeus>, ex te et illis, significat quod qui res futuras prenoscere desiderat — dabit ei quod significat ex bono sive malo.’

= **Abuifafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**, v. 1–78. No glosses, except one added by a 14th-c. hand in the margin of v. 51 (f. 92rb), which summarises the last paragraph of Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5): ‘Notandum quod magister Abraham dicit quod iste gradus

et gradus ei oppositus erit ascendens aut Lune locus, quod se sepe expertum dicit fuisse.’

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s. XIV² (mentions of the years 1375 on f. 101r; 1363, 1365, 1366 and 1391 on f. 104r; and 1368, 1369, 1387 and 1388 on f. 104v).

Paper, 172 f., two alternating hands (I, f. 1–98 and 135–160; II, f. 99–134 and 161–172).

Geomancy, astrology, computus and astronomy: ‘Geomancia est ars punctorum loco stellarum celi et planetarum. Quicumque vult bene addiscere artem geomancie quam...’ (1r–60r); drawing of a zodiac man (60v); Albumasar, *Flores* (61r–71r); ‘Hiis itaque perfectis... Saturni autem natura maligna est, frigidus et siccus...’ (71r–71v); Raymond of Marseille, *Liber iudiciorum* (71v–85v); Hermann of Carinthia, *Liber imbrium*, excerpt ‘Antiquorum porro astrologorum peritissimi dicunt quod...’ (86r–86v); ‘Notabile de Luna. Considerandum est prime in quo signo Luna perficiat cursum suum...’ (86v–87r); Alkindi (?), *Saturnus in Ariete sub radiis...* (87r–88r); Alkindi, *De mutatione temporum* (88v–96v); Jafar, *Liber imbrium* (96v–98r); ‘Si volueris scire in quibus merces care fuerint, considera signum quod in ortu fuerit...’ (98r); table of lunar mansions (98v); Alexander of Villedieu, *Massa compoti*, excerpt ‘Incipit computus tabularum. Alphabeta duo que...’ (99r–100v); computus tables with canons (101r–104v); calendar (105r–110v); Albohali, *De nativitatibus*, tr. Johannes Toletanus (111r–133r), including **Ptolemaica (112v–114r)**; **Ptolemaica (133r–134v)**; ‘Si latitudines 3 superiorum planetarum invenire volueris...’ (134v); Alcabitus, *Introductorius* (135r–159r); **Ptolemaica (159r–159v)**; notes: essential dignities (159v); ‘Arietis pars est tertium clima, habet stellas...’ (160r–160v); ‘Nota de egritudinibus et eius causis. Considera primo dominum ascendentis...’ (161r–162v); **Ptolemaica (162v–168v)**; ‘De ascensionibus cuiuslibet signi per umbram Arietis factam cum divisione. Cum ergo ascensiones cuiuslibet signi vel gradus volueris invenire in qualibet regione...’ (168v–169r); Albumasar, *De magnis coniunctionibus*, excerpt VIII.2.22–29: ‘De significatione Saturni et Marte in triplicitatibus. Quandocumque Saturnus fuerit in directo Arietis...’ (169r–171r); ‘De egritudinibus. Si in principio egritudinis in qua se ponit homo ad lectum...’ (171v–172v).

Bibl. Schum 1887, 625–27; Pedersen 2002, I, 111–12.

- 112v–114r ‘Crises veri significative (?) opem (?) sunt hore in quibus apparet mutatio — ut sit relatus cui non sit expositio neque in quo sit declaratio.’
 = **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**, v. 60–64, with the propositions also given in the ‘Mundanorum’ version (C.3.1.3), probably from the ‘threefold’ version. No glosses. This section is inserted within Albohali’s *De nativitatibus*.
- 133r–134v ‘Sequitur liber Aristotelis. Signorum alia sunt masculina, alia feminina. Masculina ut Aries, Gemini — cum precipue c...t (?) ventos. Explicit.’

- = **Pseudo-Ptolemy, *Iudicia* (B.3)**, beginning and a couple of chapters only. No glosses.
- 159r–159v ‘Scientia projectionis radiorum. Cum projectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis, id est radiorum projectio, equate.’
= **Pseudo-Ptolemy, *Liber projectionis radiorum stellarum* (B.6)**. No glosses.
- 162v–168v ‘De iudiciis partium in domibus. Pars fortune et eius dominus corpus et que ad corpus attinent — aut eius domini hiis 12 mensibus imitatur. Explicit iudicium partium in domibus.’
= **Pseudo-Ptolemy, *Liber de iudiciis partium* (B.8)**. No glosses.

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s. XIV^{med} (f. 1–117vb copied in 1349, cf. f. 116rb: ‘Expliciunt canones de primo mobili magistri Iohannis de Lineriis anno domini 1349^o, die 19 mensis Iunii, in monasterio’). **Or.:** an unnamed monastery (see above). Schum indicates Münster, but does not provide justification. **Prov.:** Amplonius Rating de Berga (c. 1365–1435); Erfurt, Collegium Porta Coeli, in 1412.

Parchment, 150 f., three contemporary hands (f. 1ra–117vb, 117vb–119va, 122ra–150ra).

Astrology, astronomy, mathematics and physics: Albumasar, *Introductorium maius*, tr. John of Seville (1ra–92vb); **Ptolemaica** (94va–105va and 105va–105vb); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (106ra–107ra); John of Ligneris, *Canones primi mobilis* (107rb–116rb); canons of Toledan tables (116rb–117vb); Jordanus de Nemore (?), *De proportionibus* (117vb–119va); Alhazen, *De speculis comburentibus* (122ra–126ra); Euclid, *De speculis* (126ra–139rb); astronomical diagrams (139v–142v); Jordanus de Nemore (?), *Liber de ponderibus* (143ra–144va); Jordanus de Nemore, *De ratione ponderis* (144va–148rb); ‘Si fuerit aliquod corpus ex duobus mixtum...’ (148rb–150ra); table of contents, added late 14th c. (150v). Blank: 93r–94r, 119vb–121v, 150rb.

Bibl. Schum 1887, 629–31; Lemay 1995–1996, IV, 112–14; Lemay 1999, I, 228; Pedersen 2002, I, 112.

- 94va–105va ‘Mundanorum ad hoc et ad illud mutatio ex corporum celestium mutatione procedit, causas que rerum rimaturum primo corpora celestia contemplari, oportet. Ptolomeus: Item premisi libros in quibus tractavi de impressionibus planetarum in hoc mundo... Ptho<lome>us: Sciencia astrorum ex te et illis, nec convenit peritum illorum prophetare... Expositio. Quod dixit Ptolomeus, ex te et illis, significat quod cum qui res futuras prescire vult — (105ra) et quanto melius quivimus exposuimus. Tho<lome>us: Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Explicit liber anphorismorum.’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**. The opening sentence is from ‘Mundanorum’, v. 1–21 from the ‘Iam premisi’ version (C.3.1.4) and

v. 22–100 from ‘Mundanorum 2’ (same version in Erfurt, UFB, Dep. Erf. CA 2^o 379 and Melk, SB, 601). No glosses. The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 105ra–105va (see below). Glosses by the scribe or a similar hand.

- 105ra–105va ‘Tho<lome>us: Stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.
- 105va–105vb ‘Dixit Tho<lome>us et Hermes quod Lune locus in hora qua infunditur — et hoc expertus fuit multotiens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.

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s. XIV¹ (the MS belonged to an astrologer active in the years 1350–1358, who glossed the MS, including the Ptolemaic section, and added many notes, excerpts and short texts on originally blank pages on f. Iv, 1vb, 12r–12v, 13v, 24v, 36v–38v, 50v, 60v–61v, 67v and 78r–79v; for the date, cf. in particular f. Iv: ‘Nota: Anno domini 1356, 23 die mensis Iunii, hora Saturni, magister Henricus Aurifaber... venit et quesivit que esset infirmitas F. quondam Iordanis et utrum evaderet eandem infirmitatem... Nota: Ascendens anni 52 fuit secundus gradus Scorpioni... Item 1353 fuit ascendens anni 7 gradus Capricorni... Item anni domini 1354 fuit ascendens mee... Item anno domini 1535 [*sic* for 1355] ascendens anni fuit 19 gradus Leonis...’, f. 67v: ‘Anno domini 1353, 12 die Martii, introitium Solis in Ariete...’, and f. 79r: various astrological configurations for 1350, 1351, 1357 and 1358). **Or.:** probably Germany (recipes in German f. 78v).

Paper, I + 79 f., several contemporary hands, one of which copied the Ptolemaic sections (f. 39r–50v).

Astrology and geomancy: added notes of astrology, medicine and other topics (Iv); ‘Tabula Albumassar subtilissimi. Si Luna aspexerit Saturnum sextili aspectu, dies fortunata...’ (1ra–1vb); added notes: ‘Aries. Nil caperici (!) noceas cum Luna refulget...’ (1vb); ‘Duodecim sunt signa in celo, quorum primum est Aries. Homo natus sub eo multos habet crines...’ (2ra–5vb); ‘Dispositio de planetis. Per hoc vero ad influentias planetarum que antiqui vocabant dominos...’ (5vb–6va); ‘Incipiunt aspectus planetarum ad membra corporis humani. Nam Saturnus habet aurem dextrum, splenem, vesicam...’ (6vb–7ra); Pseudo-John of Seville, *Epitome totius astrologie*, Book IV (7ra–11vb); added notes from Leopold of Austria’s *De astrorum scientia*, Book I: ‘Leupoldus filius ducatus Austrie dicit in primo tractatu suo: Spere celestes X sunt...’ (12ra–12vb); *Capitula Almansoris*, chs 1–17 (13ra–13rb); added notes: planetary positions for 14 November 1342 (13v); Gergis, *De significatione septem planetarum in domibus*, excerpted from Leopold of Austria’s *De astrorum scientia* (14ra–15vb); ‘Dicunt signa se aspicere, hoc est omne signum aspicit tertium ante se et tertium post se...’ (15vb–16va); ‘Hec sunt predicta vicia Lune, et est impedimentum, sub quibus nullum debet opus incipi...’ (16ra–16rb); *Capitula Almansoris* (16rb–19rb); ‘De fugitivo vel re perdit. Et si interrogatus fueris de fugitivo aut de

substantia vel de alia re perditā...’ (19rb–24va); added notes: three short astrological chapters (24va–24vb); Pseudo-Aristotle, *Iudicia* (25ra–36vb); added notes and tables (36vb–38v), including ‘Notandum quod accipere revolutionem nativitatē est recipere horam...’ (36vb), table: nature of the 12 signs (37r), tables of geomancy (37v–38r), ‘Si per horam nativitatē horam et diem conceptionis scire volueris, locum Lune ad horam nativitatē quere...’ and ‘Nota: Ille planeta dicitur maioris auctoritatē qui maioris dignitatē...’ (38v); **Ptolemaica (39r–50v)**; Zael, *Liber iudiciorum* (*Introductorium* and *De interrogationibus*) in a different and incomplete version attr. Ptolemy ‘Signorum 12 alternus est ordo: Si masculina et feminea, diurna et nocturna — occultum esse notati. Explicit liber iudicialis Tholomei’ (51r–60v); added notes (60v–61v), including ‘Coniunctio planetarum est quando duo planete...’ (60v), Zael, *Quinquaginta precepta*, in a different version ‘Ex 50 principalibus iudiciis. Primo nota quod ducatus celestis in rebus humanis est Luna...’ (61r), ‘Ex Lupoldo de notificatione mortis. Si Saturnus in oriente fuerit...’ and ‘Dicit magister Arnoldus de Villa Nova. Saturnus, Iupiter et Sol...’ (61v); William of Moerbeke, *Opusculum geomancie* (62ra–70va); *Ars geomancie* (70vb–76vb); ‘Prima domus Solis. Tutela intrans in prima domo significat castitatem...’ (76vb–77vb); added notes (78r–79r), including ‘De virtutibus signorum 12 celi ex libro Haly Avenragel. Aries est signum... Nota quod omnes sapientes astrorum dicunt quod signa ignea...’ (78r), medical recipes in Latin and German (78v) and various notes including an excerpt from Hermes’s *Centiloquium* (79r). Blank: Ir, 79v.

Bibl. Schum 1887, 631–33; Lemay 1999, I, 341–42.

- 39r–50v ‘Incipit liber anforismorum Tholomei qui dicitur liber fretus (!). Dixit Tholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Prima [title in margin]. Scientia stellarum et ex te et illis est... Expositio. Quod dixit Tholomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — (50r) et quanto melius quivimus exposuimus. Tho<lome>us: Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Dixit Tho<lome>us et Hermes quod locus Lune — et hoc expertus fuit multotiens. Finita carta detur vini michi quarta.’
= **Abuiafar Hamet filius Joseph, <Commentum in Centiloquium>, ‘Mundanorum’ version (C.3.1.3)**, in ‘Mundanorum 2’. The text ends with Pseudo-Ptolemy’s *De cometis* (B.4), on f. 50r–50v (see below), and *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 50v (see below). Substantial glosses by the astrologer active 1350–1358, one of which mentions the year 1353 on f. 51v.
- 50r–50v ‘Tho<lome>us: Stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.
- 50v ‘Dixit Tho<lome>us et Hermes quod locus Lune — et hoc expertus fuit multotiens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). No glosses.

Erlangen, Universitätsbibliothek, 434 (264)

s. XIV (13th/14th c. acc. Fischer, second half acc. Nicoud). **Or.:** Germany (German hand), probably Bavaria (cf. prov. and note added by a later hand f. 270ra: 'Remedia tempore pestilentie observanda collecta per magistrum Fr<anciscum?>, artis medicine professorem de Nurberga [Nürnberg], compilata anno domini MCCCCLXXIX quando pestilentia maxima per totam quasi Alimoniā regnavit'). **Prov.:** monastery of Heilsbronn in the 15th c. (ex-libris f. 1r, 78v and 270v).

Parchment, 278 f. numbered 1–7 in pencil (= 1*–7* below) and 1–[271] in a medieval hand (with f. 141 and 201–205 missing), one main hand ('von ähnlichen Händen' acc. Fischer, 526), MS copied with care, decorated initial on f. 1r.

Medicine, natural philosophy, astrology and various: table giving one key-word for every year from 1300 to 1419 (1*r–1*v); calendar (2*r–7*v); William of Saint-Cloud, *Kalendarium regine Francie* (1ra–7rb); added alphabetical table of subjects dealt with on f. 14v–42v (7va–8vb and 140ra–140vb); Pseudo-Aristotle, *Epistola de conservanda sanitate ad Alexandrum* (9ra–10va); William of Aragon, *De pronosticatione sompniorum libellus*, attr. 'Albertus' (10va–14rb); Giles of Rome, *De regimine regum* (14va–42va); commentaries on various Aristotle's treatises (43ra–108ra); Nicholas of Lyra, *Contra Iudeos* (108va–119ra); Pseudo-Aristotle, *Secretum secretorum* (119ra–140ra); Albertus Magnus, *De impressionibus aeris* (142ra–148va); 'Incipit libellus de sculpturis lapidum. Si in aliquo preciosorum lapidum sigillum tale sculptum inveneris Scorpionem et Sagittarium...' (148va–149rb); **Ptolemaica (149rb–150rb)**; 'Tractatus quidam de metallis. Sicut dicit liber qui continet veterum variationes...' (150va–151va); 'Albertus de naturis lapidum. Generaliter primo dicendum de lapidibus preciosis...' (152ra–156rb); 'Incipiunt conclusiones libri decretorum. Lieber (!) igitur decretorum distinctus est in 3 partes...' (156rb–161ra); *Astronomia Ypocratis* (161ra–163vb); Persius, *Liber satirarum* (163vb–182va); Arnold of Bamberg, *Regimen sanitatis* (183ra–188vb); Arnold of Villanova, *Regimen sanitatis* (188vb–200ra); Johannes de Garlandia, *Cornutus*, with comm. (206ra–227vb); 'Materia quatuor librorum sententiarum Petri <Lombardi> metrice...' (228ra–231rb); medical texts (231va–257rb); Albumasar (?), *Liber similitudinum* (257va–261ra); computus 'Tabula vocatur tabula inventionis Lune...' (261ra–262rb); Robert Grosseteste (?), *De impressionibus aeris* (262ra–265vb); Alcabitus, *Introductorius*, Book I (265vb–270ra); added notes (270ra–[271] r), including a table of contents of the MS (270rb–270va).

Bibl. H. Fischer, *Katalog der Handschriften der Universitätsbibliothek Erlangen*, I: *Die lateinischen Pergamenthandschriften*, Erlangen, 1928, 521–26; Zinner 1962, 25; Harper 1966, 18–20; Nicoud 2007, II, 822.

149rb–150rb 'Incipiunt ymages Albumasarum. Ymages Albumasar quibus omnes orientales operantur et non curant de aliis sed observant ut sit Luna boni aspectus et alii planete dum operantur et provenit ad effectum intendentis. Aries cum eiusdem horiscopo (!). Cum volueris ligare latrones ut non intrent domum, figurabis ymaginem viri exere cum ascenderit prima facies Alhamel — Aquarius et eius hor<iscopo>. Edite sunt iste ymages super facies signorum. Unde qui voluerit operari provideat ut operetur illud cum Luna fuerit in ascendente facie ex signo et accipiat locum fortune.'

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, missing the signs of Aquarius and Pisces. No glosses.

Escorial, Real Biblioteca del Monasterio de San Lorenzo, d.II.5

s. XV² (before c. 1474 for f. 44–63) and XV or XVI (f. 64–71); the rest of the MS seems to date mainly from the 16th c. (Antolín mistakenly dates the whole MS to the 14th c.). **Or.:** f. 44–63 are Regiomontanus's autograph; the first part (f. 1–112), except the Ptolemaic sections, is Spanish (cf. f. 1–43 authored by Petrus Gothmanus of Cordoba; table of geographical coordinates of regions, opening with 'Hispania Betica, Lusitania, Tarraconensis...', f. 87v; and added notes in Spanish, e.g. f. 8r, 11v, 26r, 94r, 95r). **Prov.:** f. 44–63 belonged to Cardinal Bessarion acc. M. Shank, 'Regiomontanus *versus* George of Trebizond on Planetary Order, Distances, and Orbs (*Almagest* 9.1)', in Juste/van Dalen 2020, 305–86: 308.

Paper, 363 f. Collection of MSS and documents of various origins, of which f. 1–112 form one unit, into which the two Ptolemaic sections have been inserted. These Ptolemaic sections consist of two distinct MSS, each copied by a single neat hand (Regiomontanus's for f. 44–63).

The first part of the MS (f. 1–112) consists of texts, notes, tables, diagrams and drawings mainly of geometry, astronomy and physics in great disorder. This part opens with the abbreviated title 'Pet. Goth. Cord. [obviously Petrus Gothmanus of Cordoba, the dedicatee of MS ↯Salamanca, BU, 2044] math. spec. lib. I' (1r), followed by the text in question, or rather its draft, seeing the numerous corrections and confused organisation: 'Perpendicularẽ supra aliquam...' (1r–43v); **Ptolemaica (44r–63v and 64r–71v)**; '1. Dimensio est partium sibi invicem coherentium...' (72r); 'De celi et terre figura. Celum spheram esse et motus indicat...' (72v–81v); calculations, tables, diagrams and notes (82r–112v). The rest of the MS (f. 113–363) is made of documents and letters of various kinds, mostly of a non-scientific nature.

Bibl. G. Antolín, *Catálogo de los códices latinos de la Real Biblioteca del Escorial*, I, Madrid, 1910, 414–21.

44r–63v '... ostendit per compositionem quod corde dupli arcus GH GA proportio ad cordam dupli arcus AE componitur etc. Intentio huius nugatoris est quod Ptolemaeus per eandem figuracionem demonstrare voluerit habitudinem figurae sectoris quam coniunctam vocant — angulus enim MAP non est in centro circuli cuius est arcus MP, sed in centro alterius circuli, scilicet eccentrici; ~~sic accumulate insecitiam tuam prostituisti...~~'

= **Johannes Regiomontanus, *Defensio Theonis contra Trapezuntium* (C.1.23)**, Books I–III, beginning gone due to missing folia and abrupt end a few lines from the bottom of f. 63v. Book I, 44r–48r; II, 48r–57r; III, 57v–63r (= MS ↯St Petersburg, BAN, IV-1-935, f. 13r–36r). Carefully drawn diagrams. A few corrections by the scribe (Regiomontanus), including crossed-out sections, as shown above.

64r–71v '¶Cum sit possibile, o Syre, et plurimum necessarium ut in plano represententur circuli in spheram corpoream incidentes — et cum circulis meridianis signa distinguantibus. Finis.'

= **Ptolemy, *Planispherium*, tr. Hermann of Carinthia (A.6.1)**, Class I, without the translator's preface. A few glosses by another (?) hand, including Maslama's note 1 f. 64r.

Escorial, Real Biblioteca del Monasterio de San Lorenzo, e.III.4

s. XIV. **Or.:** f. 77–88 and 121–130 copied by 'Iohannem Colim' (cf. f. 127va).

Paper, 131 f., five contemporary hands (f. 1–76; 77–88 and 121–130; 89–98r; 98v–108r; 109r–120v).

Astrology: 'Incipit Çael de prenosticis accidentibus partibus mundi in anno secundum diversitatem XII signorum per cursum Lune in mense Iulii. Patronus dicit si videris Lunam in Ariete in XVIII die Iulii...' (1ra–2va); ***Ptolemaica* (5ra–130rb)**; full list of chapters of *Quadripartitum* (130va–131va). Blank: 3–4.

Bibl. G. Antolín, *Catálogo de los códices latinos de la Real Biblioteca del Escorial*, II, Madrid, 1911, 69–70.

5ra–130rb 'Dixit Egideus de Tebaldis Lombardus de civitate Parmensi: Scire et intelligere gloriosum est quia omnis sapientia a Deo est... (5vb) Dixit Aly: Verba que dixit sapientissimus Ptholomeus in arte iudiciorum astronomie... (6vb) Capitulum primum primi tractatus libri quatuor parcium magistri Ptholomei. Dicit Ali: (7ra) Res, Miçori, quibus proficiuntur pronosticaciones accepte de astronomia maiores et nobiliores sunt due — (127va) posuit in hoc loco (*corr. ex libro*) sunt res et radices quibus ars ista. Explicit. Benedictus sit Deus gloriosus et sublimis et Deus illum, scilicet Iohannem Colim, dirigat qui scripsit. Amen. Volo in hoc loco tibi dare exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, et prima nativitas est in qua ego — hec sunt que tibi glosavi et in quibus studium et mentem oponas et Deus te dirigat in viam rectam. Amen.'

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**. Translator's preface, 5va–5vb; Haly's preface, 5vb–6vb; I, 6vb–39vb; II, 39vb–62vb; III, 62vb–102vb; IV, 102vb–127va; Haly's appendix, 127va–130rb. A few glosses by the current scribe or a similar hand, some of which refer to the Alfonsine tables (e.g. f. 49v, 69r).

Escorial, Real Biblioteca del Monasterio de San Lorenzo, e.III.15

s. XIII^{ex}–XIVⁱⁿ (c. 1300, information Stefan Georges). **Or.:** Bologna or Padua (Stefan Georges). **Prov.:** Don Diego Hurtado de Mendoza (d. 1575).

Parchment, I + 67 f., a single neat hand (except for additions by a 15th-c. hand f. 66va–67rb), painted initials at the beginning of each section, numerous decorated initials.

Astrology, astronomy and natural philosophy: two table of contents by two later hands (Ir and Iv); Alcabitius, *Introductorius* (1ra–12vb); **Ptolemaica** (13ra–22vb); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (25ra–36va); *Theorica planetarum Gerardi* (36vb–40va); Michael Scot, *Liber particularis* (41ra–51va); Albertus Magnus, *De natura loci* (53ra–66ra); two added chapters: ‘Sciendum est quod cum Luna fuerit in Ariete bonum est incipere omne opus...’ (66va–67rb) and ‘Aries primum signum habet ex corpore hominis caput et faciem...’ (67rb). Blank: 23–24, 42v, 52, 67v.

Bibl. G. Antolín, *Catálogo de los códices latinos de la Real Biblioteca del Escorial*, II, Madrid, 1911, 75–76; Lemay 1999, I, 245.

13ra–22vb ‘Incipit Centiloquium Tholomei cum commento Haly. Dixit Tholomeus: Iam scripsi tibi, Iesure, sermonem de hoc quod operantur stelle in hoc seculo... Scientia stellarum et ex te et illis est... Quod dixit Tholomeus, ex te et ex illis, significat quod qui res divinas et futuras — Ego precor Deum ut te diligat. Et perfecta est huius libri translatio 17^o die mensis Martii, 12 die mensis Gumedii secundi anno Arabum ipsorum 5302 (!). Explicit liber Centiloquii Tholomei cum commento Aly.’
= Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1). Short glosses by the scribe f. 14r, 15v and 22v, the latter quoting the *Quadripartitum*.

Escorial, Real Biblioteca del Monasterio de San Lorenzo, O.II.10

s. XIII^{ex}–XIVⁱⁿ. **Or.:** northern France, perhaps Paris. **Prov.:** John of Murs, who heavily annotated the MS, at least from 1321 to 1344, and his brother Julien of Murs; monastery of Poblet? (Antolín).

Parchment, 226 f., one or two neat hands copied the core of the MS, richly decorated initials.

Computus, arithmetic and astronomy: the original core of the MS includes Pseudo-Robert Grosseteste, *Kalendarium* (4r–10r); *Tabula Gerlandi* (10v–12rb); Balduinus de Mardochio or Marrochio, *Computus manualis* (12rb–17v); Sacrobosco, *Algorismus* (19r–26r); Sacrobosco, *De sphaera* (26v–39v); Sacrobosco, *Computus* (40r–63v); Robertus Anglicus, *Quadrans vetus* (64r–67v), with solar tables (68r–68v); Pseudo-Messahallah, *De compositione astrolabii*, beginning only (69r–71v); *Theorica planetarum Gerardi* (72r–79v); Pseudo-Thebit Bencora, *De motu octave spere* (80v–84r); **Ptolemaica** (84v–88r); Thebit Bencora, *De recta imaginatione spere et circularum eius diversorum* (88v–90r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (90r–92r); canons of Toledan tables (94r–123r); Toledan tables (124r–204r), including a selection of John of Ligneres’s canons, added by a 14th-c. hand (186r–189v); on eclipses ‘Ut annos Arabum et menses et per consequens...’, dated 1277 (205ra–217rb). Blank: 80r. John of Murs glossed most of the texts and added notes, tables and personal observations, mainly of an astronomical nature, on originally blank pages, f. 1–3, 18, 92v–93v, 123, 204v and 217v–226v. The latter section includes his own *Quando octava spera incipit moveri...* (ed. Miolo, ‘A New Astronomical Text’, 351–53) on f. 221v.

Bibl. G. Antolín, *Catálogo de los códices latinos de la Real Biblioteca del Escorial*, III, Madrid, 1913, 209–11; L. Gushee, ‘New Sources for the Biography of Johannes de Muris’, *Journal of the American Musicological Society* 22 (1969), 3–26; G. Beaujouan, ‘Observations et calculs astronomiques de Jean de Murs (1321–1344)’, in *Proceedings of the XIVth International Congress of the History of Science (Tokyo-Kyoto 1974)*, Tokyo, 1975, 27–30 (reprinted in G. Beaujouan, *Par raison de nombres. L’art du calcul et les savoirs scientifiques médiévaux*, Aldershot, 1991, VII); Pedersen 2002, I, 114; M. Husson, ‘Exploring the Temporality of Complex Computational Practice: Two Eclipse Notes by John of Murs in the ms Escorial O II 10’, in *How do Writings in the Early Astral Sciences Reveal Mathematical Practices and Practitioners?*, eds M. Husson, R. L. Kremer, special issue of *Centaurus* 58 (2016), 46–65; Miolo 2017, II, 185–91; L. Miolo, ‘A New Astronomical Text by Jean des Murs’, *Cahiers de Recherches Médiévales et Humanistes/ Journal of Medieval and Humanistic Studies* 42 (2021), 329–59: 329–33 and 344–45.

84v–88r ‘Thebit Bencorat de hiis que indigent expositione antequam legatur Al<magesti>. Equator diei est circulus maior qui describitur super 2 polos mundi — propinqui oppositioni Solis erunt, erunt retrogradi. Explicit Thebit de hiis que indigent expositione antequam legatur Almagesti et dicitur Equator diei.’

= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses. One marginal correction by the scribe f. 87r. Notes dated 1342 added by John of Murs after the explicit f. 88r.

Fermo, Biblioteca Civica, 85

s. XIII² (after 1264, date of the treatise of Guillaume des Moustiers, f. 110r–113v, and probably before 1293). **Or.:** probably Paris (cf. f. 95ra–95va; the attribution of the *De utilitatibus astrolabii* to Gilebertus, f. 79va, otherwise occurs uniquely in one of Richard of Fournival’s MSS, Paris, BnF, lat. 16652, f. 14v; the MS clearly belongs to a university milieu). **Prov.:** the MS belonged to an astrologer active between 1293 and 1310, one of whose clients was a countess Johanna (cf. added notes and horoscopes f. 108r–108v, 109v and 132va).

Parchment, 135 f., at least two hands, one of which copied f. 1–113 (except added notes f. 108r–108v, 109v, 132va), painted initial f. 1r, decorated initials. One or several folia appear to be missing between f. 94 and 95 and after f. 135.

Astrology and astronomy: Albumasar, *De magnis coniunctionibus* (1ra–56rb); ‘Tabula dignitatum planetarum in signis’ (56rb); canons of Toledan tables (56va–72va); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (72va–73vb); ‘In faciendo almanak sunt primo extrahendi medii cursus...’ (73vb–75va); ‘Si latitudinis 3 superiorum planetarum invenire volueris...’ (75va–76vb); Hermann of Reichenau, *De mensura astrolabii* (76vb–79va); *De utilitatibus astrolabii*, attr. ‘Gilebertus’ (79va–84vb); Berengarius, *De horologio viatorum* (85ra–87rb); excerpts from *Sententie astrolabii* and *De utilitatibus astrolabii* ‘Amucantharath id est progressionarii Solis circuli videlicet illi qui...’ (87rb–87vb); Ibn al-Šaffār, *De opere astrolabii*, tr. John of Seville, end gone (87vb–94vb); end of a text on the quadrant for the latitude of Paris (95ra–95va); ‘Compositio scioteri. Sume tibi ligniolum cuiuslibet generis...’

(95va–95vb); **Ptolemaica (95vb–99ra)**; ‘Tractatus in compositione astrolabii. Cum volueris facere astrolabium accipe auricalcum...’ (99rb–106rb); Pseudo-Thebit Bencora, *De motu octave spere* (106va–109r); added horoscopes and notes, including a judgement of interrogation dated 11 June 1293 concerning a stolen good in the house of a countess Johanna (108r–108v), and nativities of four people born in 1266, 1293, 1306 and 1310 (109v); Guillaume des Moustiers (bishop of Laon, 1261–1269), ‘Incipit tractatus in compositione et opere armillarum ad inveniendum loca planetarum et aliarum stellarum. Querantur due armille orbiculares convenientis mensure...’ (110r–113v); Alcabitius, *Introductorius* (114ra–132va); added horoscope for a native of 1303 in Rostock (132va); Hermes, *Centiloquium* (132vb–134rb); Gergis, *De significatione septem planetarum in domibus*, end gone (134rb–135vb).

Note Guillaume des Moustiers’s text (f. 110r–113v) has the same incipit as the collection of excerpts from the *Almagesti minor* (C.1.4) found in several MSS, but it really is a distinct text, even though it draws heavily on *Almagesti minor*, V.1. See Zepeda 2018, 84–85; and C. P. E. Nothaft, ‘Guillaume des Moustiers’ Treatise on the Armillary Instrument (1264) and the Practice of Astronomical Observation in Medieval Europe’, *AS* 78 (2021), 401–17.

Bibl. Bubnov 1899, xxxi–xxxii; S. Prete, *I codici della Biblioteca Comunale di Fermo. Catalogo*, Firenze, 1960, 118–21; Pedersen 2002, I, 115.

95vb–99ra ‘Translatio Roberti Cestrensis [title added above the line by another hand]. Incipit in nomine Dei pii et misericordis liber [added above the line: Tolomei] de compositione universalis astrolabii. Ptolomeus igitur Mercurii incedens vestigiis in libro suo qui vocatur Almagesti de motu sic ait: Ait enim omnis motus aut de puncto aut ad punctum — cum una eademque utrique conveniat ad plenum dicitur. Explicit liber Ptolomei de compositione astrolabii quem scilicet Robertus Cestrensis in civitate Londonie ex Arabico in Latinum transtulit, era millesima centesima LXXXV^a.’

= **Pseudo-Ptolemy, *Liber de compositione universalis astrolabii* (B.2).**
No glosses.

Florence, Biblioteca Marucelliana, A 109

s. XVII. **Or.:** probably Tuscany.

Paper, 142 f., personal notebook written in one main hand.

Personal notebook made of texts and notes dealing with various subjects in Latin, Greek and Italian. **The Ptolemaic section (21r–23r)** is found between ‘Eloquentia rediviva. Gloriam candidissimam illam honeste mentis facem...’ (3r–21r) and Hippocrates’s *Lex*, in Greek (23r–28r). The author left a table of contents of the MS (1r) and a catalogue of his books (31r–45r, referred to as ‘Catalogo di libri mei’ in the table of contents).

Bibl. *Inventario dei manoscritti della R. Biblioteca Marucelliana* (handwritten catalogue), I (not seen).

- 21v–23r ‘Ex Ptoleмео de Analemmate. Quoniam igitur dimensiones quae in unaquaque mole insunt terminatas esse oportet et positione et multitudine sicut et magnitudine ex omnibus autem declinationibus quae fiunt ad rectos angulos — reliquos parallelos Graeci men... (?) ... (?)’
 = **Ptolemy, *Liber de Analemmate*, tr. William of Moerbeke (A.5.1)**, excerpts. No glosses.

Florence, Biblioteca Marucelliana, C 163

s. XIV^{ex}–XVⁱⁿ. **Or.:** Italy.

Paper, 159 f. MS made of four parts, the first of which (f. 1–31) is copied in a single hand.

Works of Robert Grosseteste (f. 1–31): *De luce* (1ra–2va); *Quod homo sit mundus minor* (2va); *De artibus liberalibus* (2va–3vb); *De generatione sonorum* (3vb–4rb); *De calore Solis* (4rb–5rb); *De generatione stellarum* (5rb–5vb); *De colore* (5vb–6rb); *De statu causarum* (6rb–7rb); *De motu supercelestium* (7rb–8vb); *De differentiis localibus* (8vb–9rb); *De forma prima omnium* (9rb–10rb); *De intelligentiis* (10rb–11va); *De veritate* (11va–13vb); *De veritate propositionis* (13vb–14rb); *De impressionibus elementorum* (14rb–14vb); *De motu corporali et luce* (14vb–15ra); *De finitate motus et temporis* (15ra–15vb); *De lineis, angulis et figuris* (15vb–16vb); *De natura locorum* (16vb–18ra); *De accessu et recessu maris* (18ra–19va); *De iride* (19va–20va); *De cometis* (20va–21rb); ***Ptolemaica* (21rb–21vb)**; *De scientia Dei* (21vb–22rb); *De ordine emanandi causatorum a Deo* (22rb–22vb); *De libero arbitrio*, incomplete (22vb–31va). The other parts of the MS (32r–159v) contain non-scientific works.

Bibl. *Inventario dei manoscritti della R. Biblioteca Marucelliana* (handwritten catalogue), I (not seen); S. H. Thomson, *The Writings of Robert Grosseteste, Bishop of Lincoln (1235–1253)*, Cambridge, 1940, 17–18; Panti 2001, 255–56.

- 21rb–21vb ‘Lynconien<sis> de speciebus cometarum et figurationibus earum. Ptholomeus in libro qui dicitur Centiloquium tricas et tricarum nomina ponit... stelle cum caudis sunt novem quae mundum movent — in regibus et divitibus apparebit. Et hec de cometis breviter distinximus. Trica est ignis sublimatus — qualitas rei future cuius est signum.’
 = **Pseudo-Ptolemy, *De cometis* (B.4)**, attr. Robert Grosseteste. No glosses.

Florence, Biblioteca Medicea Laurenziana, Acquisti e Doni 694

s. XVI^{ex}.

Paper, 341 f. (new foliation in pencil; this foliation jumps from 189 to 200, but nothing is missing there), a single neat hand copied f. 1r–183r and 185r–245v, and three other, sloppier hands copied f. 247r–266r, 267r–272v and 275r–341v. Old foliation and catchwords show that folia are missing (or misplaced) in several places, including at least between current f. 174–175 (20 folia acc. old foliation), somewhere between f. 175 and 185 (9 folia acc. old foliation), and also between 234–235, 283–284, 340–341 and after

341. The exemplar was, apparently, already defective, for the scribe noted after the explicit of Book II (175v): ‘Ex Theone nihil aliud omnino invenitur de secundo ac tertio libro Magnae constructionis.’

Ptolemaica (single text). Blank: 113, 176r, 184v, 246, 266v, 270v, 273v–274v.

Bibl. Kristeller 1963–1992, V, 567.

1r–341v ‘Theonis Alexandrini commentarius in primum Constructionis mathematicae Ptolemaei ad Epiphaniū filium. Prohoemium. Frequentius admonitus ab auditoribus Epiphani filii ut eorum explanationem...’
= **Theon of Alexandria**, (*Commentum in Almagestī*), tr. late 16th c. (C.1.30.6), incomplete and chaotic. I, 1r–112v; II, 114r–184v (explicit 175v, tables 176v–183r and note by another hand 183v–184r: ‘Exposita angulorum tabula deinceps inquit...’); III, 185r–245v (beginning missing: ‘AFK sunt aequales, aequales vero sunt quoniam ipsa...’, see below 275r–); IV, 247r–254v; V, 255r–266r (end missing); confused notes on various sections of Books IV and V, 267r–273r; III, 275r–341v. Corrections and marginal notes by various hands.

Florence, Biblioteca Medicea Laurenziana, Ashburnham 202 (128/34)

s. XV² (after 1463), with 16th c. additions. **Prov.:** northern Italy (perhaps Genoa, cf. f. 77r) in the first quarter of the 16th c.

Paper, III + 81 f., one main hand or two similar hands (f. 1–67 and 67v–74v), with 16th-c. additions.

Astrology: table of contents, 16th-c. hand (IIr); chapter index of the Ptolemaic section ‘Tabula Quadripartiti Pth<olom>ei’, added by another 16th-c. hand (IIIr–IIIv); **Ptolemaica** (1r–67r); ‘De domino anni. Conveniens est nunc scire dominum vel dominos anni...’ (67v–72r); two tables of lunar mansions, with canon (73r–74v); astrological table, added 1510 (75r); note (76r). Blank: Ir (except ex-libris Biblioteca Laurenziana), Iv, IIv, 72v, 75v–81v (except added notes f. 76r: ‘Anno 1524 completo directio coniunctionis maxime pervenit ad Capricorni gr<adum> 12, m<inutum> 0, s<ecundam> 6’; f. 77r: ‘Die 17 Martii 1524 Genue’; f. 81v: beginning of a zodiacal chorography ‘Arietis: Persia, Britannia, Gallia...’).

Bibl. *I codici Ashburnhamiani della R. Biblioteca Mediceo-Laurenziana di Firenze*, I.3, Roma, 1891 [Indici e cataloghi VIII], 206–07 (no. 128); Kristeller 1963–1992, II, 505.

1r–67r ‘Inter utiliores vias quas in edicionibus viderimus sapientum de astrorum doctrinancium influxibus processus quem gloriosus ille astronomorum signifer Ptholomeus Soludianus in libro quatuor parcium ordinavit... Due sunt species ad pronosticandum complementum requesite secundum quod duobus modis — (64v) ad varietatem colorum prout sepe antea dictum est. Et hec sunt in summa sententie domini Ptholomei de rebus et accidentibus universalibus ex secundo eius libro collecte. Verum quia dominus Haly in fine capituli addit certa verba utilia domini Hermetis in libro suo de

accidentibus, scripta et michi visum fuit utile eadem hic subscribere. Verba Hermetis. Dixit Hermes: Ordina significatores primo etc. Primo fortiolem postmodum debiliolem — Hic enim adiunximus multa de dictis Hermetis in quibus proficies si Deus voluerit. Et sic est finis. Sit laus et gloria trinis.’
 = **⟨Commentum Cracoviense in Quadripartitum a. 1463⟩ (C.2.8)**.
 Preface, 1r; Book I, 1r–29v; II, 29v–64v; appendix, 64v–67r. Short marginal notes throughout by the same hand that copied the chapter index f. IIIr–IIIv. Substantial glosses, possibly by the scribe or by yet another hand, f. 40v–41v (quoting Pierre d’Ailly (‘Cameracensis’) extensively) and 54v.

Florence, Biblioteca Medicea Laurenziana, Ashburnham 203 (129/35)

s. XVIⁱⁿ (computus tables 1512–1534 f. 57r). **Or.:** copied by one ‘Antonius Federicus de Gallis’ (f. 20r), probably in northern Italy (Mantua?). **Prov.:** ‘Ad usum patris Anselmi de Mantua confessoris et concionatoris ordinis minorum observantium’ (f. 1v, apparently in another hand).

Paper, 78 f., a single hand, small painted initials at the beginning of each section.

Astrology: astrological tables, mainly on signs and planets (1v–6r); Hermes, *Centiloquium* (8r–20r); ‘Declaratio nominum astrologorum. Elevationes quatuor modis intelliguntur...’ (21r–24r); **Ptolemaica (25r–31r and 59r–66v)**; *Capitula Almansoris* (32r–45v); **Ptolemaica (46r–47v)**; Zael, *Quinquaginta precepta* (48r–54r); tables and notes of computus and astronomy (55r–58v); Bethen, *Centiloquium* (67r–72v); Bethen, *De horis planetarum* (72v–75v). Blank: 1r, 6v–7v, 20v, 24v, 31v, 54v, 76–78.

Bibl. *I codici Ashburnhamiani della R. Biblioteca Mediceo-Laurenziana di Firenze*, I.3, Roma, 1891 [Indici e cataloghi VIII], 207–08 (no. 129).

25r–31r, 59r–66v ‘Incipit liber centum verborum Ptholomei. Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Verbum primum in cognitione eorum qui verum iudicium perhybentur. Scientia stellarum ex te et illis est — ex aliqua civitate eiusdem climatis. Finis. Pro expositione huius verbi require a c^o 46.’

= **Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), tr. Plato of Tivoli (C.3.1.1)**, without the commentary. No glosses. The text breaks off after the list of conjunctions in v. 50 on f. 31r and f. 31v has been left blank. The text resumes on f. 59r with v. 51. The last sentence refers to the text below.

46r–47v ‘De cometis Ptho<olome>i. Ptholomeus in loco isto dicit scynthillationes (!) stellarum etiam stelle cum caudis sunt. Ait Pthol<omeus> quod ille syntillationes significant bona et si fuerint ex una parte ventos significat ex ea parte venturo — (46v) faciunt istas sintillationes, et ideo significant siccitatem. Pth<olomeus>: Tricas et tricarum nomina posuit... Stelle cum caudis sunt 9 que mundum movent — ultra quantitatem eius competentem. Finis suus ... (?). Τελεος.’

= **Pseudo-Ptolemy, *De cometis* (B.4)**, in a longer version, whose first part is adapted from v. 100 of the *Centiloquium* (both the proposition and the beginning of the commentary) in the 'Mundanorum' version (C.3.1.3). No glosses.

Florence, Biblioteca Medicea Laurenziana, Ashburnham 1448

s. XV (c. 1434 for f. 1–34 and 49v–158, and probably about the same time for the rest of the MS). **Or.:** MS mainly copied by Niccolò Roccabonella (1386–1459), at least partly in Germany, cf. f. 155v: 'Scriptum in Alamania in castro dicto Fauber dum esset pro cura illius domini 1434 die 3^o Februarii. Deo gratias. Nicolaus Rochabonella Coniclanensis [Conegliano, Veneto] phisicus. Amen.' **Prov.:** Guglielmo Libri (d. 1869).

Paper, 193 f. (with f. 70–79, 115–116 and 170–179 omitted in foliation), one main hand (Niccolò Roccabonella) copied f. 1–34 and 49v–158, and several contemporary hands copied the rest of the MS.

Alchemy, medicine, natural philosophy and astrology: 'Incipit consideratione quinte esentie (!) omnium rerum transmutabilium pauperibus et evangelicis viris editus. Dixit Salomon: Sapientie capitulo septimo Deus dedit michi...' (1r–34r); medical recipe (34v); Pseudo-Raymundus Lullus, *Ars operativa medica* (35r–49r); 'Incipit glosula libri Geberi. Incipit quidam extractus de libro Geberis quem ipse fecit...' (49v–50v); 'Similiter dicit liber Lilii qui dicit quod anima iungitur corpori...' (50v–51r); 'Nota quod aurum et argentum debite...' (51r–52v); 'Divisio operacionis lapidis, et hoc est opus, est facere descendere de celo in terram. De operacione huius lapidis benedicti...' (53r–56r); notes of alchemy, added (56v); Pseudo-Galen, *De dinamidiis* (57r–87r); Pseudo-Albertus Magnus, *Liber aggregationis*, Book I (87v–88v); alchemical recipes, added (89r–89v); Pseudo-Galen, *De medicinis expertis* (90r–104r); alchemical recipes (104v–109r); Pseudo-Galen, *De plantis* (109v–116v); 'Incipit tractatus de febribus brevis secundum Gerardum de Solo. Colera vel putrefit extra vasa...' (117r–124r); recipes, added (124v); 'In Christi nomine amen. Incipit tractatus secundum Petrum de Iovenetis de modo exhibendi farmaca canonice per viam astrologie. Cum pluries a confratribus plurimis... Explicit tractatus secundum Petrum de Iovenetis de Bononia' (125r–127v); Arnold of Villanova (?), *De iudiciis particularibus pertinentibus ad medicinam*, excerpt 'Incipit tractatus Arnaldi de Vila Nova de electione situs Lune in exhibendis farmacis. Quoniam autem medicus practicans non semper potest habere certa loca planetarum...' (128r–129r); medical recipes (129v); *Astronomia Ypocratis* (130r–135v); 'Incipit tractatus de natura et ordine XII signorum. Aries est primum signum et est igneus...' (136r–137r); 'Incipiunt alique regule flebotomie. Si tempus bonum flebotomandi solum ad motum Lune...' (137v–139v); 'Consilium virtuti familiare sucintum et summarium contra pestem editum a magistro Anthonio Cermisoni doctore maximo. Utatur rebus a cetosis...' (140r–141r); medical recipes (141v); Arnold of Villanova, *De vinis*, attr. Raymundus Lullus (142r–155v); notes of alchemy (156r–156v); 'Incipiunt aliqua experimenta Alberti Magni, et primo de aqua vite. Aqua vite ponitur loco balsami...' (157r–158v); 'Incipiunt regule sciendi in quo signo est Luna et etiam Sol. Sicut scribitur primo Methauris (!) ab Aristotele, necesse est hunc mundum inferiorem...' (159r–159v); medical recipes (160r–166r); 'Incipit lapidarius Sydrach', in Italian (166v–181r); 'Incipit libellus Aristotilis de VII planetarum et earum proprietatibus. Sol est altus super terram...' (181v–182^{ter}v, folia in

disorder and incipit on f. 182^{ter}v); 'Die dominico: Olivarum antequam comedas...' (183r–184r); medical recipes (184r–189r); **Ptolemaica** (190v–193r). Blank: 189v–190r (except notes), 193v.

Bibl. *Biblioteca di Ashburnham-Place. Fondo libri (segnatura attuale)* (typed catalogue), 48; Kristeller 1963–1992, I, 96.

190v–193r 'Incipit libellus de fortuna hominum vel mulierum secundum XII signa. Astrologi Arietem nuncupant primum signum, ostendunt et affirmant quoque per XII signa fortunam hominum et mulierum secundum quod reperi in libro Tholomei peritissimi astrologi dicentis. De Ariete natura. Nati sub Ariete, videlicet a medio Marii usque ad medium Aprilis, erit maxime industrie, nec dives nec multum pauper, a proximis suis ledetur — (De natura Pissium) sunt isti meliores, dies Martis malus. Explicit liber de fortuna hominum et mulierum secundum nacionem eorum sub aliquo XII signorum celi.'
= **Pseudo-Ptolemy, *De nativitatibus hominum* (B.11)**, with summarised preface. No glosses.

Florence, Biblioteca Medicea Laurenziana, Ashburnham 1733

s. XIII. Or.: Italy (Italian stylistic features, including 'con' for 'cum').

Parchment, II + 76 f., one main hand (except for f. Iv–II and 49–52, which consist of three inserted bifolia copied in a contemporary or somewhat later hand, and for later additions f. Ir and 75vb–76v). The MS has been damaged (apparently by fire), making the last folia partly illegible (f. 58–76, and especially f. 69–76, whose large portions are lost).

Astrology: horoscope dated 1307 (Ir, added); 'Signa zodiaci sunt ista. Aries, Taurus...' (Iva–Ivb); 'Hora Saturni bona est ad emendum ferrum...' (Ivb–IIra); 'Quando Luna est in Ariete bonum est emere equos bellicosos...' (IIra–IIvb); 'In istius artis principio videndum quid sit ars et que materia...' (Ira–2rb); *Liber Arzachelis introductorius ad librum iudiciorum Arabum* (2va–18va); Zael, *De interrogationibus*, chs 1–11 (18va–21rb); **Ptolemaica** (21va–35va); 'De revolutatione (!) anni. Cum volueris scire revolutationem anni, accipe graduum ascendentis anni transacti...' (35va–35vb); Messahallah, *Epistola de rebus eclipsium*, chs 1–2 (35vb–36rb); Albumasar, *Flores* (36va–48vb and 53ra–55vb); Messahallah, *Epistola de rebus eclipsium*, complete (49ra–51vb); 'De dominio planetarum in horis. Sciendum est quod in septimana...' (52ra–52rb); table: 168 planetary hours (52v); **Ptolemaica** (56ra–73rb); table of terms: 'Termini Ptolomei' (73v); *Epistola Argafalau ad Alexandrum*, chs 1–3 (73vb–74va); 'Luna cum fuerit in Ariete in 18 Iulii erit in illo anno ventus orientalis...' (74vb–75va); added notes, not scientific (75vb–76v).

Bibl. *Biblioteca di Ashburnham-Place. Fondo libri (segnatura attuale)* (typed catalogue), 58.

21va–35va 'Iudiciorum Ptholomei ad Aristonem filium suum liber incipit. Signorum alia sunt masculini generis, alia feminini, ut Taurus, Cancer... (34va) De primo die mensis Septembris. Prima die mensis, Hycarus, custos plaustris, apparet — in signo dierum erunt dies, in signo mensium menses, annorum annos.'

- = **Pseudo-Ptolemy, *Iudicia* (B.3)**. The text includes Pseudo-Ptolemy's *De temporum mutatione* (B.12) on f. 34va–35rb (see below). A couple of corrections by the scribe and a few marginal notes by two later hands, more substantial on f. 30r and especially on f. 33v.
- 34va–35rb 'De primo die mensis Septembris. Prima die mensis, Hycarus, custos plaustris, apparet — et planeta illius turris habet dominum totius anni.'
= **Pseudo-Ptolemy, *De temporum mutatione* (B.12)**, as part of the previous text. No glosses.
- 56ra–73rb 'Incipit centum eloquia vel capitula seu centum verba Ptolomei. Dixit Ptolomeus: Iam scripsi tibi, Iesure, librum de hoc quod operantur stelle in seculo... Verbum primum. Scientia stellarum ex te et illis est... Quod dixit Philosophus, ex te et illis, significat quod qui res futuras — (72rb) Quidquid enim dixit Philosophus in hoc libro iam probavimus et exposuimus. Ptolomeus: Iste cum caudis sunt 9 — (72vb) in regibus et in divitibus apparebit. Verbum 100. Dixit Philosophus: ... qui locus id est gradus — ... [explicit gone].'
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, 'Mundanorum' version (C.3.1.3)**, in 'Mundanorum 2'. The text includes Pseudo-Ptolemy's *De cometis* (B.4), appended to v. 99, on f. 72rb–72vb (see below), and *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5), considered v. 100, on f. 72vb–73rb (see below). Occasional short marginal notes by one or two later hands. The last folia are severely damaged.
- 72rb–72vb 'Ptolomeus: Iste cum caudis sunt 9 — in regibus et in divitibus apparebit.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.
- 72vb–73rb 'Dixit Philosophus: ... qui locus id est gradus — ... [explicit gone].'
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). No glosses.

Florence, Biblioteca Medicea Laurenziana, Conv. Soppr. 414

s. XIII^{med} (perhaps before 1263, a date given as the present year in a long note added, apparently by another hand, on f. 63v: '... aliquando etiam fiet equinoctium Sole existente in 21 gradu Piscis ut nunc, anno domini M^o.200.63'). **Or.:** English hand (Georges). F. 1r–60r were copied on MS $\rightarrow$ Paris, BnF, lat. 16657 (f. 82v–146v), which successively belonged to Richard of Fournival, to Gerard of Abbeville (c. 1261) and to the college of Sorbonne (1272). **Prov.:** the scribe annotated the MS until at least 1304 (see below); Florence, basilica della Santissima Annunziata, by 1735.

Parchment, 63 f., a single hand.

Astronomy and algebra: ***Ptolemaica* (1r–45r)**; two diagrams and a note on retrogradation 'Nota: P est centrum terre, O centrum ecentrici deferentis...' (45v); ***Ptolemaica* (46r–60r)**; *Liber restauracionis* 'Unitas est principium numeri et non est numerus...' (60va–63vb).

Bibl. L. Crociani, M. G. Ciardi Dupré Dal Pogetto, D. Liscia Bemporad, *I codici della basilica della SS. Annunziata in Firenze nella Biblioteca Medicea Laurenziana*, Firenze, 1983, 117–18 (no. 82); Zepeda 2018, 56–57; M. Moyon, ‘The *Liber Restauracionis*: A Newly Discovered Copy of a Mediaeval Algebra in Florence’, *Historia Mathematica* 46 (2019), 1–37: 4–5; Georges (forthcoming).

1r–45r ‘Incipit liber Albategni qui dicitur Almagesti parvum [title in upper margin by a later hand]. Omnium recte philosophancium non solum verisimilibus et credibilibus — tenebrarum sic se habent. Explicit hic sextus liber et sexti glosa textus.’

= *Almagesti minor* (C.1.4). Occasional short marginal notes.

46r–60r ‘Tabula stellarum fixarum secundum quod sunt semper in ymaginibus signorum. Stellatio Urse Minoris. Illa que est super extremitatem caude: $2^{\circ} 7' 15'' - 66^{\circ} 0' - 3$. Illa que est post istam super caudam: $2^{\circ} 9' 35'' - 70^{\circ} 0' - 4$ — chaugebe dicuntur comate.’

= Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2), VII.5–VIII.1, star catalogue, with longitudes adjusted $+7^{\circ}05'$ (same in MS $\rightarrow$ Paris, BnF, lat. 16657). Much later, in or around 1304, the scribe added the coordinates from the Alfonsine tables ($2^{\circ} 17' 18''$, $2^{\circ} 19' 38''$, etc.), as well as several glosses, including the following one at the end (60r): ‘Notandum quod super tabulas hic positas ab antiquo addunt nove tabule Alfinsi 10 gradus et 3 minuta. Sed anno domini 1304 addebantur ad hoc 23 minuta. Et antique tabule hic posite addunt super tabulas Ptholomei in Almagesti de stellis fixis 0 signum 7 gradus 5 minuta, ita quod tempus presentis anni, scilicet 1304, addit super tempus Ptholomei 0 signum, 17 gradus, 8 minuta.’ This gloss turns out to be the earliest mention of the Alfonsine tables, see D. Juste, ‘The Alfonsine Tables Mentioned in 1304’, *JHA* 54 (2023), 213–19.

Florence, Biblioteca Medicea Laurenziana, Plut. 18 sin. 3

s. XIV. **Prov.:** Florence, church Santa Croce.

Parchment, II + 117 f., a single neat hand, decorated initials.

Arithmetic, astronomy and computus: table of contents, added (IIr); star table, added (IIr); Sacrobosco, *Algorismus* (1ra–8va); Sacrobosco, *De sphaera* (8vb–25rb); Sacrobosco, *Computus* (25va–50vb); Pseudo-Robert Grosseteste, *Kalendarium* (51r–58r); Robertus Anglicus, *Quadrans vetus* (59ra–66rb), with solar tables 1292–1295 for Paris (66r–68r); Pseudo-Messahallah, *De compositione astrolabii* (68va–90ra); *Theorica planetarum Gerardi* (90ra–101va); Pseudo-Thebit Bencora, *De motu octave spere* (101va–106rb); **Ptolemaica** (106va–111va); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (111va–114ra); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (114ra–116vb); astronomical table, added by a later hand (107v). Blank: Ir, IIv, 58v, 107r.

Bibl. Bandini 1774–1778, IV, 131–32.

- 106va–111va ‘Incipit liber Tebit de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni Solis erunt tunc retrogradi. Explicit Thebith.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Florence, Biblioteca Medicea Laurenziana, Plut. 18 sin. 6

s. XIV¹. **Prov.:** Florence, church Santa Croce.

Parchment, 96 f. (new foliation in pencil), one main hand, except for additions by several later hands f. 1r–2r and 94r–96v, decorated initials.

Astronomy, computus and arithmetic: ‘Ars cylindri. Longitudo baculi qui ponitur...’ (1r, added); table: 168 planetary hours (1v, added); ‘Incipit orologium itinerantium sive viatorum’ (2r, added); calendar and computus (3ra–19vb), Sacrobosco, *Algorismus* (20ra–28v); Sacrobosco, *Computus* (29ra–59vb); Robertus Anglicus, *Quadrans vetus* (59vb–67rb), with solar tables 1292–1294 for Paris (67v–68v); *Theorica planetarum Gerardi* (69ra–79vb); Pseudo-Thebit Bencora, *De motu octave spere* (79vb–84vb); **Ptolemaica (85ra–89va)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (89va–91va); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (91va–93vb); star table (94r–94v, added); ‘Tabula magistri Petri de Dacia ad sciendum in quo signo sit Luna’ (95r, added), with canons (95va–96rb, added); astronomical table (96v, added). Blank: 2v.

Bibl. Bandini 1774–1778, IV, 132–34; Pedersen 1983–1984, I, 227–28.

- 85ra–89va ‘Incipit liber Thebit Bencorach de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Chore de hiis que indigent expositione antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Florence, Biblioteca Medicea Laurenziana, Plut. 29.3

s. XV² (1477 for f. 24–59, cf. colophon; 1460 for f. 4–21, cf. f. 21r). **Or.:** copied by Lorenzo di Silvestro Guiducci da Corna, canon of San Lorenzo in Florence. **Prov.:** San Lorenzo in Florence.

Paper, 133 f. (modern foliation in pencil, bottom right corner), a single hand.

Astrology and astronomy: table of contents of f. 4–59 (1r); astrological notes ‘De triplicitatibus et dominis earum’ and ‘De aspectus’ (1v–3v); Alcabitius, *Introductorius* (4r–21r); ‘Cum fuerit Luna cum Capite vel Cauda in uno signo...’ (21v); ‘Tabula facierum’ (21v); ‘Incipit

liber de utilitate astrolabii. Astrolapsus est utilis...' (22ra–23ra); astronomical table (23ra); Thebit Bencora, *De recta imaginatione spere et circularum eius diversorum* (23v); **Ptolemaica** (24r–59v); 'Notabilia artis physionomae secundum diversos auctores. Diverse membrorum dispositiones...' (59v–61v); **Ptolemaica** (62r–105r); 'De nativitatibus utilia quedam et necessaria. Capitulum primum. Certitudo gradus ascendentis...' (108r–123v); 'Capitulum primum de extractione quarundam partium in nativitatibus et revolutionibus' said to be borrowed from Guido Bonatti (124r–125v); John of Saxony, comm. on Alcabitius's *Introductorius*, excerpts (125v–133r); astrological notes 'Nota ista notabilia que ex diversis voluminibus extrahi...' (133r–133v). Blank: 105v–107v.

Bibl. Bandini 1774–1778, II, 5–7; T. De Robertis, C. Di Deo, M. Marchiaro, *I manoscritti datati della Biblioteca Medicea Laurenziana di Firenze*, I: *Plutei 12–34*, Firenze, 2008, 64–65.

24r–59v 'Laurentii Bonincontri Miniatisensis super Centiloquio Ptolomei. Astrologiam esse omnium liberalium artium excellentissimam, nemo est qui ignoret tum propter ipsius scientie nobilitatem... (24v) Scientia stellarum ex te et illis est, hoc est ut sis homo bone vite — a signis celi nolite metuere. Deo igitur laus, honor et gloria per infinita secula seculorum. Amen. Laurentii Bonincontri Miniatisensis commentum super Centiloquio Ptholomei feliciter explicat. Transcriptum per me Laurentium Silvestri canonicum ecclesie Sancti Laurentii Flor<entie> die X Maii 1477, hora 22 ½.'

= **Lorenzo Bonincontri, *Commentum super Centiloquio Ptholomei* (C.3.14)**. A few marginal corrections and notes by the scribe, more substantial f. 31v–32r.

62r–105r 'Exerpta per me Laurentium Bonincontrum Miniatisensem ex Quadripartito Ptholomei et expositione Hali commentatoris sive Porphiri. Ex capitulo primo commenti. <S>cientia stellarum est ars a principiis certis aliarum scientiarum proveniens, quibus ea que accidunt possunt sciri cuius principia in phisicis... Ex textu et commento de pronosticandi scientia. Duas esse res quibus pronosticandi scientia perficitur et has maiores aliis quia de omnibus rebus potest cognoscere astrologus — et extrahemus a locis mensium et dabimus cuilibet signo duos dies et tertium. Finis. Deo gratias.'

= **Lorenzo Bonincontri, *Excerpta ex Quadripartito Ptholomei* (C.2.9)**. Book I, 62r–71v; II, 71v–79r; III, 79r–94v; IV, 94v–105r. A few marginal notes by the scribe.

Florence, Biblioteca Medicea Laurenziana, Plut. 30.6

s. XVI. Or.: Italy.

Paper, 194 f., unnumbered, a single neat hand.

Ptolemaica (single text). Blank: 194v.

Bibl. Bandini 1774–1778, II, 71; Monfasani 1984, 16.

- 1r–194r ‘Ad sanctissimum dominum nostrum Sixtum Quartum pontificem maximum, Andree Trapezuntii, Georgii filii, in paternam Almagesti Ptolomei traductionem prefatio. Evolventi mihi nuper libros patris mei, Georgii Trapezuntii, viri optimi et omni doctrinarum genere insignis... (3v) Magne compositionis Ptolemaei libri a Georgio Trapezuntio e Greco conversi incipiunt. Peroptime mihi videtur, o Syre, qui bene philosophati sunt, speculativam philosophiae partem ab activa separasse. Nam etsi activae accidat parti — idoneum hic modum ac finem haec est compositio consecuta.’
 = **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**. Andreas of Trebizond’s preface to Sixtus IV, 1r–3r; Book I, 3v–16r; II, 16r–36v; III, 36v–48r; IV, 48r–61v; V, 61v–77v; VI, 77v–94v; VII, 95r–109r; VIII, 109v–122v; IX, 123r–139v; X, 140r–149v; XI, 150r–164v; XII, 165r–177v; XIII, 178–194r. No glosses.

Florence, Biblioteca Medicea Laurenziana, Plut. 30.29

s. XIII², probably between 1250–1275 (Stefan Georges, private communication). **Or.:** Paris. This MS may derive from Richard of Fournival or his circle (cf. f. 52va–53ra and 74rb–79vb, also Bohak/Burnett).

Parchment, I + 87 f. (new pencil foliation, lower right corner), a single neat hand, decorated initials.

Geomancy, astrology, alchemy and magic: table of contents, early modern (Iv); *Estimaverunt Indi...* (1ra–25vb); *Alchandreana* (26ra–32ra); ‘Cupientibus fructum planetarum primum scire oportet quis sit...’ (32rb–32vb); Aomar, *De nativitatibus* (33ra–43va); Albumasar, *Flores* (43va–51rb); Messahallah, *Liber interpretationum* (51rb–52va); Richard of Fournival, *De arte alchemica*, excerpt (52va–53ra); Zael, *Liber iudiciorum* (53ra–57va, *De electionibus* and excerpts from *De interrogationibus*); *lunarium* ‘Luna prima longam infirmitatem pacietur...’ (57va–57vb); *lunarium* ‘... (?) est dies omnibus rebus agendis utilis...’, incomplete (57vb); Pseudo-Aristotle, *Epistola de conservanda sanitate ad Alexandrum* (58ra–59va); Thebit Bencora, *De imaginibus* (60ra–61va); ***Ptolemaica* (61va–63ra and 63ra–63rb)**; alchemical texts (64ra–79vb), including Richard of Fournival, *De arte alchemica* (74rb–79vb); Pseudo-Albertus Magnus, *Speculum astronomie* (80ra–85rb); *Ars notoria* (85rb–86vb). Blank: Ir, 63v, 87r–87v (except for a few notes).

Bibl. Bandini 1774–1778, II, 84–86; Zambelli/Caroti 1977, 130–32; D. Pingree, ‘The Diffusion of Arabic Magical Texts in Western Europe’, in Scarcia Amoretti 1987, 57–102: 86–87; Paravicini Bagliani 2001, 22–23; Juste 2007, 309–13; Bohak/Burnett 2021, 87–88.

- 61va–63ra ‘Liber Ptholomei de ymaginibus super facies signorum. Opus ymaginum Ptho<lomei> et est omnibus modis propior et veracior in probatione quoniam eius effectus super facies signorum 12. Dixit Alburabeth Becifeliz quia omnes orientales operabantur per has ymagines — et impetrabit a Deo quod animus tuus desiderat. Explicit liber Ptholomei de ymaginibus super facies signorum.’

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14).** No glosses.

63ra–63rb ‘Incipit Ptholomeus de cometis. Ptholomeus in hoc libro tricas et tricarum nomina posuit... Stelle cum caudis sunt 9 — in regibus et divitibus apparebit cenacul... (?)'. Explicit.’

= **Pseudo-Ptolemy, *De cometis* (B.4).** No glosses.

Florence, Biblioteca Medicea Laurenziana, Plut. 89 sup. 34

s. XV^{ex}–XVIⁱⁿ (for f. 1–126, probably before 1518, cf. note added in the margin of f. 10v, apparently by another hand: ‘1518, 21 die Aprilis Luna lucebat eratque dies Mercurii...’; the other parts of the MS date from the first half to the middle of the 16th c.). **Or.:** Italy, probably Florence (added notes in Italian f. 2r: ‘Io fui fato notario adi 29 settembre (?) 1549...’ and 3r: ‘Monica Mateo contessina Agnolo’; f. 130–285 mainly in Italian, including the only known copy of Ristori’s judgement on the nativity of Cosimo de’ Medici).

Paper, 285 f. (new foliation in pencil, 8 folia ahead of the old foliation). Composite MS, of which the first part (f. 1–126), which concerns us, was copied by one main hand.

Geomancy, divination and astrology: two short chapters of divination, by another hand (1r); Almadel, *De firmitate sex scientiarum* (9r–17v); ***Ptolemaica* (19r–28v)**; ‘Nota: Quando artem operari volueris geomantie, dic per...’ (28v); *Sortes Albedaci* (29r–32v); ‘Incipit de fructibus planetarum et de effectibus eorum. De cupientibus habere fructum planetarum...’ (32v–34v); William of Moerbeke, *Opusculum geomancie*, incomplete (35ra–50va); ‘De tristitia. Sequuntur significationes XVI figurarum per domos XII et domos additas, scilicet XIII, XIII et XV necnon et XVI. Tristitia est figura Saturni et in Scorpione continetur...’ (55r–83r); ‘Regule artis geomantie. Incipiunt regule istius libri...’ (83v–84v); *Ars geomancie* (85r–87r); ‘Desiderantibus verum et certum iudicium dare secundum venerabilem scientiam geomantie...’ (87v–90r); *Si quis per artem geomanticam...*, second part: ‘Incipit de statu corporis si questio proponatur. Si de statu corporis questio proponatur...’ (90r–118r); ‘Ad sciendum an mulier debet parturiri filium vel filiam...’ (118r); *Alchandreana* ‘Initio totius creationis primordio XII signa aptavit Deus cuncta...’ (118v–126r); Giuliano Ristori, judgement on the nativity of Cosimo de’ Medici, in Italian and dated 1537 (130v–186r); geomancy in Italian (189r–266v); ‘Geomantia est vaticinium terrenorum et est astronomice pars...’ (266v–273r); geomancy in Italian (273v–274v); notes of geomancy (275v); geomancy in Italian (277r–285v). Blank: 1v–8v (except for added notes f. 2r and 3r), 18, 51–54, 126v–130r, 186v–188v, 275r, 276.

Bibl. Bandini 1774–1778, III, 303–04.

19r–28v ‘Nota de geomantia Ptholomei regis Arabum. Incipit archanum magni Dei revelatum Ptholomeo regi Arabum de reductione geomantie ad orbem. Per hoc presens possunt cognosci exquisite presentia et preterita et futura in omni eo quod vult homo — et alie sunt fallaces. Explicit. Honor virtus et gloria potestas... Translatio magistri Bernardi phisici regnante Bonifacio papa et Adulpho electo in imperatorem et Philipo rege Francie et Iacobo rege

Maioricarum et Bengario episcopo Magolensi et Audoardo rege Anglorum et anno 13^o lecture nostre in phisica in Monte Pessulano et anno domini M^oCC^o90^o quinto die Iovis ante Natale. Deo gracias.’

= **Pseudo-Ptolemy, *Archanum magni Dei de reductione geomancie ad orbem* (B.17)**. No glosses, but several marginal notes by the scribe f. 20v–21v and 23r, not necessarily relevant to the topic.

Florence, Biblioteca Medicea Laurenziana, Plut. 89 sup. 38

s. XV^{ex} (at least partly copied in 1494). **Or.:** Italy, at least partly copied in Rome (f. 314r: ‘Explicit Rome 4 Ianuarii 1494, die Saturni, hora meridiei pulsante’).

Paper, 324 f. (new foliation in the lower right corner), several hands.

Magic, astral magic, geomancy and astrology in a large collection of texts, excerpts, notes and *experimenta* of all kinds in Latin and in Italian, which are difficult to collate. Identified texts include Thebit Bencora, *De proprietatibus quarundam stellarum* (1r–3v); ‘Incipit tractatus de ymaginibus. Si discordare quempiam velis, diriga ymaginem hora Martis...’ (3v–8v); **Ptolemaica (9r–17r)**; *Picatrix*, excerpts (18r–30r); Hermes, *Liber orationum planetarum septem* (76v–77v and 99r–99v); Salomon, *De quatuor annulis* (211r–224v); Salomon, *De figura Almandal* (267v–270r, with beginning at 268r); Hermes/Belenus, *De imaginibus septem planetarum* (280v–282r, with beginning at 281r). Many blank folia, including 17v.

Bibl. Bandini 1774–1778, III, 305–08; Pingree 1986, xxxviii; J. Véronèse, *L’Almandal et l’Almandel latins au Moyen Âge. Introduction et éditions critiques*, Firenze, 2012, 94–97.

9r–17r ‘Preclarissimi viri domini Ptholomei tractatus de imaginationibus feliciter incipit. Dixit Albuzaben quia omnes originales operabantur per has ymaginationes. Ligatio latronum. Cum volueris ligare latronum ut domum non intrent, figurabis ymaginationem viri ex ere — et inpetrabis ex eo quod animus tuus desiderat. Finis. Expliciunt imagines Ptholomei. Finis’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**.
Corrections by the scribe.

Florence, Biblioteca Medicea Laurenziana, Plut. 89 sup. 45

s. XIII^l (between c. 1217 and c. 1235 acc. Georges). **Or.:** Italy, probably Bologna acc. Georges.
Prov.: Giovanni Gaddi (1493–1542), cf. f. 1r.

Parchment, 183 f., a single neat hand, deluxe MS with painted initials at the beginning of each book of the *Almagest*.

Ptolemaica (single text).

Bibl. Bandini 1774–1778, III, 312–13; Kunitzsch 1974, 93–94; Kunitzsch 1986–1991, II, 16; Georges (forthcoming).

- 1ra–183va ‘Incipit liber Almagesti Ptolomei Pheludensis translatus a magistro Girardo Cremonensi de Arabico in Latinum. Quidam princeps nomine Albugaue in libro suo quem scientiarum electionem et verborum nominavit... (1va) Capitulum primum in quo huius scientie excellentiam et finem eius utilitatis dicam. Bonum domine fuit quod sapientibus non deviantibus visum est — (183ra) per ipsum prolongationem et abbreviationem, tunc iam sequitur et honestum est ut ponamus hoc finem libri. Expleta est dictio terciadecima libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Finit liber Ptholomei Pheludensis qui grece Megaziti, arabice Almagesti, latine vocatur Vigil, cura magistri Thadei Ungari anno domini millesimo CLXXV^o Toleti consumatis, anno autem Arabum quingentesimo LXX^o mensis octavi undecimo die, translatus a magistro Girardo Cremonensi de Arabico in Latinum. In tempore coniunctionis que videtur et erunt ille hore quas inveniemus — que sunt in illa eadem area XLVII que erunt.’
 = **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 1ra–1rb; I, 1va–12ra; II, 12ra–32va; III, 32va–44ra; IV, 44ra–59rb; V, 59rb–76rb; VI, 76rb–91rb; VII, 91rb–104ra; VIII, 104ra–116ra; IX, 116ra–132vb; X, 132vb–142va; XI, 142va–157vb; XII, 157vb–170ra; XIII, 170ra–183ra. The colophon is followed by an excerpt from VI.10 (f. 183ra–183va), which had been omitted *in loco*, f. 89ra. The colophon and the excerpt from VI.10 have been added by a different hand. Glosses by the scribe and a few glosses by a later hand, e.g. f. 13r, 33v, 69r. Added notes in Hebrew, mainly numbers, in the upper left corner of f. 183v.

Florence, Biblioteca Medicea Laurenziana, Plut. 89 sup. 57

s. XIII^{med} (the MS was glossed by the scribe in or after 1247; one of these glosses on f. 57r gives the mean position of the Sun for ‘anni perfecti 1294, 6 menses...’, i.e. 1295, but this gloss is in fact a replica of another gloss found in MS $\rightarrow$ Paris, BnF, lat. 16200, f. 46v, where it reads ‘anni perfecti 1994, 6 menses...’ meaning 1994 in the era of Nabonassar, so that ‘anni perfecti 1994’ corresponds to AD 1247/48. This is confirmed by another gloss by the scribe on f. 55v, which explicitly mentions the year 1247 (‘1246 completo’) — this gloss is also found in the Paris MS, f. 45v). **Prov:** according to the title and the colophon of the *Almagest*, both added by a later hand, the MS belonged to one ‘Thadeus Chambinus ... (?) de Florentia’ or ‘Thadeus Arduvinis de Florentia’, who is probably identical with the Florentine physician Taddeo (di Cambino) Arduini attested in the first half of the 15th c.; Florence, convent of San Marco (cf. ex-libris f. 1r, late medieval hand).

Parchment, 100 f., a single hand, reserved initials.

Ptolemaica (single text).

Bibl. Bandini 1774–1778, III, 320; Kunitzsch 1986–1991, II, 22; Zepeda 2018, 75–76; Georges (forthcoming).

- 1r–100v ‘Incipit liber Almagestis (!) magistri Tholomei et magni astrologi mei Thadei Chambini ... [two or three words erased] ...nis (?) de Florentia [title added in red in the upper margin by another hand]. <Q>uidam princeps nomine Albugaſe in libro suo quem scienciarum eleccionem et verborum nominavit... (2r) onum scire fuit quod sapientibus non deviantibus visum est — tunc tantum erit possibile, ut contingant... Explicit liber Tholomei mei ... (?) Thadei Arduvinis de Florentia [colophon added in red in the lower margin by the same hand that added the general title f. 1r].’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1r–2r; I, 2r–22r; II, 22r–44v; III, 44v–57r; IV, 57r–73v; V, 73v–94v; VI, 94v–100v. Abrupt end in VI.5 mid-sentence at the bottom of f. 100v. The colophon (as well as the title) was clearly added after the loss of f. 101 ff. Substantial glosses by the scribe and by at least one later hand. These glosses include, among others, large excerpts from the *Almagesti minor* (see below).
- (8v–88v) ‘Data circuli diametro latera decagoni — a cenith caputum elongationem certam demonstrare.’
= ***Almagesti minor* (C.1.4)**, I.1–6, II.16–V.1 (except II.28, III.1–2, IV.4 and IV.6) and V.19, as glosses to the *Almagest* (see above) on f. 8v, 9v–10v, 29r–30r, 34r–35r, 36r–38r, 49v–53r, 54r, 55r, 56r–58v, 59v, 65r–65v, 67v, 69r–71v, 74r and 88v. All these excerpts are also found in MS [→]Oxford, NC, 281 (Zepeda, 76).

Florence, Biblioteca Medicea Laurenziana, Redi 12

s. XVII.

Paper, 113 f., a single hand.

Ptolemaica (two texts), followed by a full chapter index (111v–113v).

Bibl. *Inventorio dei codici Redi, Tempi e Rinuccini* (handwritten catalogue), 8r.

- 1r–103v ‘Claudii Ptolomaei Pelusiotae quadripartiti operis de iudiciis astrorum ad Syrum fratrem liber primus, Pancratis Florentino, monacho Vallis Umbrosano, interprete. Proemium. Cum duo sint maxima et potissima, o Syre, quae per astronomiam finem cui praesagiendi vis insita est praeparant... (2r) Cap. 1. Quod comprahendi potere astronomica scientia et quousque tendat. Omnibus profecto vim quamdam ab aethera et sempiterna natura — et causae mathematicae et causae quae oriuntur ex mixtione. Finis.’
= **Ptolemy, *Quadripartitum*, tr. Pancratis Florentinus (A.2.13)**. I, 1r–30r; II, 30r–53r; III, 53v–85v; IV, 85v–103v. No glosses.
- 103v–111r ‘Claudii Ptolemei liber qui dicitur fructus. Cum exposuerimus, o Syre, effectrices astrorum vires que in hoc composito efficiunt mundo praecognitione... 1. Abste et a scientia. Fieri enim nequit, ut qui sciens est, particulares rerum formas pronuntiet — gladio de medio ut plurimum tollentur. Finis.’

= **Pseudo-Ptolemy, *Centiloquium*, tr. Pancratius Florentinus (B.1.10).**
No glosses.

Florence, Biblioteca Medicea Laurenziana, San Marco 194

s. XII^{ex}–XIIIⁱⁿ for f. 62–135 (information Stefan Georges; f. 1–61 date from the early 14th c.).
Or: Italy (probably Pisa for f. 1–61, cf. f. 1r–16v and 60v). **Prov.:** Filippo di Ugolino Pieruzzi (1388–1454), cf. f. 135v: ‘Liber Philippi ser Ugolini Pieruzi notar<ii> de Florentia’; Florence, convent of San Marco.

Parchment, 135 f. (new foliation 1–135, as in Pedersen and Juste; Björnbo refers to the old foliation 1–61 and 63–136). MS made of two parts: f. 1–61, copied by several hands, and f. 62–135, copied by a single neat hand. One or several folia (three?) are missing between f. 123 and 124.

Astronomy and astrology: short table of contents of the whole MS, 14th-c. hand (1r); astronomical tables, including for Pisa and Novara, with some canons, including by Campanus of Novara (1r–16v); astrological seal ‘Anulum valde utilissimum ad morbum caducum...’ (17r); Toledan tables (17v–60r); ‘Tabula horarum horologiorum ad situm Pisarum’ (60v); ‘Tabula magistri Campani ad inveniendum annos Arabum per annos Christi’ (61r); *Liber omnium sperarum celi et compositionis tabularum* (62ra–65rb); Pseudo-Thebit Bencora, *De motu octave spere* (65rb–66va); canons for the tables of Marseille, excerpts (66vb–67rb); other canon (67va); *Liber Arzachelis introductorius ad librum iudiciorum Arabum* (68ra–73rb); table: elections from the aspects of the Moon with the other planets (73v); Zael, *De interrogationibus* (74ra–86va); Raymond of Marseille, *Liber iudiciorum*, first lines only (86va); **Ptolemaica (86va–94vb)**; Zael, *De electionibus* (95ra–99rb); Zael, *Liber temporum*, chs 4–6 and 11 (99rb–99va); Alcabitus, *Introductorius*, beginning of Book III (99va–99vb); Messahallah, *Epistola de rebus eclipsium* (100ra–101vb); Messahallah, *De cogitatione* (101rb–101vb); Messahallah, *Liber interpretationum* (101vb–103rb); notes on an interrogation of 22 July 1130 ‘Aspexi hanc figuram et fuit ascendens signum ex circulo...’ (103rb–103va); notes on an interrogation of 18 November 1131 ‘De universali interrogatione. Dixerunt sapientes quod omnis universalis interrogatio...’ (103va–103vb); ‘Tractatus de electionibus. In principio omnis negotii cave primum et eius dominum...’ (103vb–104va); Alkindi (?), *De creticis diebus* (104va–106vb); Messahallah, *Liber receptionis* (106vb–113va); Albumasar, *Flores* (113va–121rb); Gergis, *De significatione septem planetarum in domibus* (121rb–123ra); Alcabitus, *Introductorius*, excerpt from Book II, end gone (123ra–123vb); *Benedictum sit nomen domini...*, ch. 18.23–28 (124ra–124rb, beginning gone); Aomar, *De nativitatibus* (124rb–134va); *Alchandreana* (134va–135ra); ‘De parte fortune. Secundum Iohannem Yspalensem de parte fortune...’ (135ra); Haly Embrani, *De electionibus horarum*, fragment (135rb); two paragraphs added by two later hands ‘Si volueris scire quando pluvia erit...’ and ‘Recipe atramenti Romani...’ (135v). Blank: 61v.

Bibl. Ullman/Stadter 1972, 212 (no. 763); Björnbo 1976, 16–23 and 103–07; Kristeller 1963–1992, V, 561; Pedersen 2002, I, 117; Juste 2007, 313–15.

- 86va–94vb ‘Iudiciorum Ptolomei ad Aristonem filium suum liber incipit. Signorum alia sunt masculina, alia feminina — quia medicari non potest nisi in planeta congruo Martis. Sic et de ceteris intellige planetis.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**. No glosses.

Florence, Biblioteca Medicea Laurenziana, San Marco 215

s. XIV–XV. **Prov.:** Florence, convent of San Marco.

Parchment, II + 144 f., a single hand, decorated initials.

Astronomy and geometry: table of contents ‘Liber Yeber in Almaiesto. Practica quedam geometrie’, medieval hand (IIv); ***Ptolemaica* (1r–124r)**; Dominicus de Clavasio, *Practica geometrie*, incomplete (124v–144r). Blank: 1r–IIr, 144v.

Bibl. Ullman/Stadter 1972, 213 (no. 772); Björnbo 1976, 87–88 and 137; Kristeller 1963–1992, V, 561.

- 1r–124r ‘Sciencia species habet quarum melior post scientiam — sunt digniores ut evanescent et destruantur. Completa est declaracio eius. Completus est tractatus nonus et est ultimus liber. Hunc librum transtulit in Toletio magister Geradus (!) Cremensis (!) de Arabico in Latinum.’
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1r–2v; I, 2v–16r; II, 16r–28r; III, 28r–35r; IV, 35r–48r; V, 48r–68v; VI, 68v–88r; VII, 88r–105v; VIII, 105v–112v; IX, 112v–124r. A few marginal notes by a later hand.

Florence, Biblioteca Nazionale Centrale, II.III.24

s. XIVⁱⁿ (f. 148–303; solar tables verified 1304–1307 f. 180r–182r; f. 1–147 are from the first half of the 14th c.). **Or.:** tables for Paris (f. 176r) and for latitude 51° (241r–241v); f. 1–147 in an Italian hand acc. Pedersen. **Prov.:** ‘Abbatie Florentie S. LXXIII^a A. C.’ (f. 1r, later medieval hand); Carlo Strozzi (d. 1670) (f. 1r).

Parchment, XIII + 303 f., MS made of two parts: I. f. 1–147, a single neat hand; II. f. 148–303, a single neat hand, decorated initials.

Mathematics and astronomy: 19th-c. catalogue entry for the whole MS (1r–Xr); Fibonacci, *Practica geometrie* (1r–147r); table of contents of f. 150–179, late medieval (148r); Sacrobosco, *Algorismus* (150ra–153rb); Sacrobosco, *De sphaera* (153rb–159va); Sacrobosco, *Computus* (159vb–171ra); Prophatius Judeus, *Quadrans novus* (171ra–175v); ‘Tabula ascensionum signorum ad Parisius’ (176r); Robertus Anglicus, *Quadrans vetus* (176va–179vb), with solar tables verified 1304–1307 (180r–182r); Johannes de Harelbeke, *Tractatus de spera solida* (182va–189ra); Pseudo-Messahallah, *De compositione astrolabii* (189ra–198rb); Azarchel, *Saphea*, tr. Johannes Brixienensis and Prophatius Judeus (198va–206rb); Petrus de Sancto Audomaro, *Tractatus de semissis*, ch. 10 ‘Cum eclipsim Lune et eius quantitatem...’ (206rb–208rb); Petrus de Dacia, *Eclipsorium* ‘Prolixitatem que etiam plurimos in proiectionem eclipsium...’

(208rb–214ra), with tables (214v–217r); Pseudo-Thebit Bencora, *De motu octave spere* (218ra–219va); **Ptolemaica** (219va–221va); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (221va–222va); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportione terre* (222va–223va); ‘Incipit tractatus chilindri quod horologium dicitur viatorum. Investigantibus chilindri dispositionem...’ (223va–225ra); Petrus de Sancto Audomaro, *Tractatus de semissis* (225ra–232va); Petrus de Dacia, *Kalendarium* (232vb–240v); ‘Tabula elevationum signorum ad latitudinem 51 gr<adus>’ (241r–241v); canons of Toledan tables (242ra–254rb); *Theorica planetarum Gerardi* (254va–258rb); Campanus of Novara, table for calendar conversion, with canon ‘Quia vero perutile est inventio annorum scire...’ (258va–258vb); Toledan tables (259r–301v); table of contents of f. 150–301, late medieval (302r); scattered notes and unfinished diagrams (303v). Blank: Xv–XIIIv (except for a few notes and ex-libris f. XIr, XIIr, and XIIIv), 147v, 148v–149v, 217v, 301v (except for owner’s note), 302v–303r.

Bibl. Mazzatinti 1892–1926, IX, 150–51; L. Thorndike, ‘Notes upon Some Medieval Astronomical, Astrological and Mathematical Manuscripts at Florence, Milan, Bologna and Venice’, *Isis* 50 (1959), 33–50: 36–38; Pedersen 1983–1984, I, 228 and 461, and II, 655; Pedersen 2002, I, 117–18.

219va–221va ‘Incipit liber Thebith Benchorath de hiis que indigent exposicione antequam legatur Almagesti. (219vb) Equator diei est circulus maior qui describitur super duos polos orbis — propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Chore de hiis que indigent exposicione antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent exposicione antequam legatur Almagesti* (C.1.1).** No glosses.

Florence, Biblioteca Nazionale Centrale, II.III.214

s. XV.

Paper, 84 f., a single neat hand. One or several folia are missing between f. 30 and 31.

Astral magic, magic and astrology: Thebit Bencora, *De imaginibus* (1r–4r); ‘Acceptio ascendentis. Cum vis ascendens accipere in die ante meridem...’ (4v); **Ptolemaica** (4v–8v); ‘Sunt quidam qui maleficiis impediti cum uxoribus suis coire non possunt...’ (8r–8v); Hermes, *De imaginibus et horis* (8v–9v); Hermes/Belenus, *Liber imaginum Lunae* (9v–11r); Hermes/Belenus, *De viginti quattuor horis* (11r–12r); Hermes/Belenus, *De imaginibus diei et noctis* (12v–14v); Hermes/Belenus, *De quattuor imaginibus magnis* (14v–15r); ‘Prima dies Iovis mensis Martii facias pingere Adam et Evam ad formam eorum...’ (15r); Hermes, *Liber septem planetarum ex scientia Abel* (15r–23v); ‘Incipit liber de ieiuniis et sacrificiis et suffumigationibus septem planetarum. Capitulum de Saturno. Capitulum de Saturno primum. Septem stelle ad omnia valentes habent sacrificia...’ (23v–24v); Hermes, *Liber Mercurii* (24v–26r); ‘Saturni anulus lapis plumbi qui est Saturni accipe plumbum...’ (26r–26v); Salomon, *De quattuor annulis*, incomplete (26v–29v); last lines of a text ending ‘Explicit anulus’ (31r); ‘Incipit liber de locutione cum spiritibus planetarum.

Dixit Abuelabec (?) Altanaram quidam philosophus astrologus...’ (31r–33r); Hermes, *Liber planetarum (Liber Saturni)* (33r–38r); Mahomet, *Liber septem nominum* (38r–41r); Mahomet, *Liber quindecim nominum* (41r–42r); Hermes, *De imaginibus sive annulis septem planetarum* (42v–43v); ‘Liber de secretis angelorum. Incipit liber quem dominus Deus misit per angelum suum Rachaelem...’ (43v–44v); various *experimenta* ‘Primum quidem mundum in hac arte homines vocat...’ (44v–49r); **Ptolemaica (49v–54r)**; Ibn al-Jazzār, *De proprietatibus* (54r–57v); *Liber vacce* (57v–72r); Albertus Magnus, *De mineralibus* (72r–73r); Costa ben Luca, *De physicis ligaturis* (73r–74v); Salomon, *De figura Almandal* (74v–78v); ‘Incipit liber Bileth. Primum quidem sacratum sacravit me et in terra...’ (78v–84r). Blank: 30, 84v.

Bibl. Mazzatinti 1892–1926, X, 7–8; D. Pingree, ‘Learned Magic in the Time of Frederick II’, *Micrologus* 2 (1994), 1994, 39–56: 43–54; S. Gentile, C. Gilly, *Marsilio Ficino e il ritorno di Ermete Trismegisto. Marsilio Ficino and the Return of Hermes Trismegistus*, Firenze, 1999, 238–40; J. Véronèse, *L’Almandal et l’Almadel latins au Moyen Âge. Introduction et éditions critiques*, Firenze, 2012, 69–72.

4v–8r ‘Opus ymaginum secundum consilium Ptholomei et est omnibus modis proprior et veracior et in probatione quoniam eius effectus constitutus est super facies signorum XII. Dixit Albuthabelen felix quod omnes orientales operantur per has ymagines — Cumque hoc feceris pervenies ad quod volueris et impetrabis ab eo quod animus tuus desiderat. Explicit liber.’

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, chs 1–15. Glosses by a later hand.

49v–54r ‘Incipit liber de iudiciis partium Ptolomei. Et primo de parte fortune, hic accipitur in die a Sole in Lunam, in nocte e contrario, et prohibetur ab ascendente. (50r) Quoniam et in primo libro partium terminos et loca posuimus, iudicia sub earundem ministrare curavimus. Pars fortune et eius dominus corpus et que ad corpus attinent — partis significationem aut eius domini hiis XII mensibus mutatur.’

= **Pseudo-Ptolemy, *Liber de iudiciis partium* (B.8)**. No glosses.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. A.I.1475

s. XIII–XIV. **Prov.:** Florence, basilica della Santissima Annunziata.

Parchment, 80 f., a single hand, painted initials at the beginning of each section.

Astronomy: **Ptolemaica (1ra–70va)**; Tres Fratres Filii Moysi [Banū Mūsā], *Verba filiorum Moysi filii Sekir* (70vb–80ra). Blank: 80v (except for scattered notes added by another hand).

Bibl. *IMCS*, 1; *CMFB*, IX, 56–58.

1ra–70va ‘Comentum Geber super Almagesti. Verba Heber (!) filii Asta (!) Yspalensis. Scientia species habet quarum melior post scientiam — sunt digniores ut evanescant et destruantur. Completa est eius declaratio. Explicit tractatus

nonus et est ultimus huius libri. Hunc librum transtulit in Toletum magister Girardus Cremonensis de Arabico in Latinum. Deo gratias. Amen.'

= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1ra–2ra; I, 2ra–9rb; II, 9rb–16rb; III, 16rb–20vb; IV, 20vb–28rb; V, 28rb–40va; VI, 40va–50vb; VII, 50vb–61ra; VIII, 61ra–65ra; IX, 65ra–70va. Substantial glosses by the scribe or a similar hand.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. A.IV.1678

s. XV^{ex} (1488, cf. f. 74r: 'I. M. 21^o die Ianuarii 1488'). **Prov.:** Florence, basilica della Santissima Annunziata (f. 1r); acquired by the Biblioteca Nazionale in 1808.

Paper, II + 193 + II^a f., unnumbered, a single neat hand.

Ptolemaica (single text). Blank: Ir–IIv, 193, I^ar–II^av.

Bibl. *IMCS*, 2; Kristeller 1963–1992, I, 154, and II, 21; *CMFB*, IX, 62–63.

1r–192v ' <Q>uidam princeps nomine Albugafe in libro suo quem scientiarum electionem et verborum nominavit... (2r) onum fuit scire quod sapientibus non deviantibus visum est — (178v) et abbreviationem arogantiam et colaudationem. Tunc iam sequitur et honestum est ut ponamus hic finem libro. Amen. Explicit Almagesti' (followed by tables f. 179r–192v).

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1r–1v; I, 2r–14r; II, 14r–29v; III, 29v–43r; IV, 43r–57r; V, 57r–76v; VI, 77r–91v; VII, 91v–99r; VIII, 99r–105v; IX, 105v–116v; X, 116v–129r; XI, 129r–145v; XII, 146r–161r; XIII, 161v–178v. All diagrams and tables, including the star catalogue, are missing. A few tables, incl. tables of arcs and chords, have been added at the end, but these are only partly filled. No glosses.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. A.V.2654

s. XIII (13th–14th c. acc. Heiberg and Haskins). **Or.:** southern hand. **Prov.:** Antonio Corbinelli (d. 1425), cf. 'A.C.' f. IVr; Florence, Badia Fiorentina (church Santa Maria Assuntanella), cf. f. 1r: 'Iste liber est abbacie Florentine' and f. 120v: 'Abbatie Florentine.'

Parchment, IV+120 f., a single hand, painted initials at the beginning of each book of the *Almagest*. Several folia are missing at the beginning.

Ptolemaica (single text), followed (f. 120v) by a short text, which consists of a Latin translation of the introduction of the 5th- or 6th-c. Greek commentary on the *Almagest* known as the *Prolegomena ad Almagestum*: 'Astronomiam in eis qui ad Syrum genethalogicis (!) quatuor libris Ptolomeus ita diffinivit: Astronomia est scientia conceptiva astrorum — et linearibus demonstrationibus paratorum canonum nudas et indemonstrabiles ephodos' (ed. F. Acerbi, N. Vinel, B. Vitrac, 'Les *Prolegomènes à l'Almageste*. Une édition à partir des manuscrits les plus anciens. Introduction générale – Parties I–III', *SCIAMVS* 11 (2010), 53–210: 90–91).

Bibl. *IMCS*, 3; J. L. Heiberg, 'Eine mittelalterliche Übersetzung der Syntaxis des Ptolemaios', *Hermes* 45 (1910), 57–66; Haskins 1927, 158–59.

1r–120r 'Cum sit autem consequens demonstrare et que particulariter attenduntur quantitates comprehensarum inter equinoctialem et eum qui per media animalia circulum — et que ad commoditatem solam contemplacionis sed non ad ostentacionem commemoratio suggerebat, proprium utique nobis hic et commensurabilem recipiat finem presens negotium.'
= **Ptolemy**, *Almagesti*, tr. Sicily c. 1150 (A.1.1), starting with the end of I.12. I, 1r–2v; II, 2v–22r; III, 22r–30r; IV, 30r–40v; V, 40v–51v; VI, 51v–62v; VII, 62v–72v; VIII, 72v–81v; IX, 82r–89v; X, 89v–95r; XI, 95r–104r; XII, 104r–111r; XIII, 111r–120r. A few marginal notes by the scribe and by a later hand.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. B.VII.479

s. XVI². **Or.:** University of Pisa, MS probably copied at the request of Filippo Fantoni, who might be responsible for the corrections and added title. **Prov.:** Florence, convent Santa Maria degli Angeli.

Paper, 2 vols (338 + 335 f.), four alternating hands (I: f. I/1r–74v, 167r–216r, 283r–338r and II/2r–335v; II: f. I/75r–137v and 217r–282r; III: f. I/139r–167r; IV: f. II/1r–1v).

Ptolemaica (single text). Blank: I-138r–138v, 216v, 282v, 338v; II-181v.

Bibl. *IMCS*, 8.

I/1r–338r and II/1r–335v 'D. Philipi Fantonii in Quadripartitum Ptolemei lectiones [title added by the corrector]. Prima. In omni scientia, testis est [*add.:* Averoes]... (II/1r) Lectionum in Ptolome<i> Phil<i> Fant<i> tomus 2 — Voleo tantum ultimum Lune tractatum non ita bene examinavisse, vobis autem gratias refero quamplures et valete.'
= **Giuliano Ristori**, *(Lectiones in Quadripartitum)* (C.2.23). I, I/1r–177v; II, I/178r–338r; III, II/1r–233v; IV, II/233v–335v. Numerous corrections (interlinear and marginal) by another hand over the first twelve lectures (I/1r–70r). No marginal notes thereafter.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. F.IX.478 [Plate 26]

s. XVI¹ (1547–1548, the date 1547, given in the explicit, is a mistake for 1548). **Or.:** University of Pisa, MS probably used by Ristori in his teaching and possibly written in his hand (the script is very close to Ristori's autograph note in MS Florence, BNC, Nuovi Acquisiti 1213, f. 37v). **Prov.:** the MS continued to be used in teaching (presumably at the University of Pisa), first in 1558–1559 (see Note below), then by Filippo Fantoni. The MS later belonged to the convent Santa Maria degli Angeli.

Paper, III + 441 f., one or perhaps two hands.

Ptolemaica (single text). Scattered notes (inner front cover and Ir); book index (Iv); incomplete subject index (IIr–IIIr). Blank: IIIv, 441.

Note The MS was used in teaching from early November 1558 to 26 January 1559, as shown by added notes in the lower margin of f. 49r ('Die 8^a Novembris 1558', Lecture 14), 99r ('Die XI Novembris hora 22^{ma} 1558', Lecture 26), 126v ('Die Iovis 24 Novembris 1558', end of Lecture 33 and of Book I), 149r ('Die 28 Novembris hora 20 1558 dum Lune', Lecture 39), 161r ('Die prima Decembris 1558 de mane Iovis', Lecture 42), 171v ('Die secunda Decembris 1558 de mane', Lecture 45); 199r ('Die 6 Decembris 1558'), 236r ('Completus die XIII Decembris 1558, hora noctis tertia Martis die', end of Lecture 61 and of Book II), 236v ('Ceptus die qua secundus, completus est eadem nocte, hora 4 4/5', this note next to the title of Book III), 248v ('Completus die 15 Decembris 1558 hora nona (?) ... (?) Iovis', Lecture 65), 310r ('Die prima Ianuarii de mane 1558, Solis die', Lecture 79), 348v ('Completus die Lune, nona Ianuarii 1558, hora 21^a', Lecture 88)', 380v ('Completus die Veneris, 13 Ianuarii, hora noctis 3 1/3', end of Lecture 96 and of Book III) and 398v ('Die Iovis 19 Ianuarii, hora 2 noctis, 1558', Lecture 101). The closing lecture took place on 26 January 1558 [= 1559] according to the colophon. The person responsible for this teaching was perhaps Francesco Ottonaio, the immediate successor of Giuliano Ristori as professor of mathematics at Pisa.

Bibl. *IMCS*, 24.

1r–440v 'In Quadripartitum Tholomaei regis expositio praeclara magistri ~~Iuliani de Ristoriis~~ *Pratensis astrologiam* (*corr. in* Philippi de Fantoniis mathesim) profitentis in almo studio Pisano, una cum questionibus necnon observationibus comprobatur undique textus. ~~Cum~~ in omni scientia ~~plura preponuntur~~ et ut Avere (!) testis est — vobis autem gratias refero quamplures et valete. Die 19 Iunii Pisis 1547. Finis ~~commentariorum~~ (*corr. in* lectionum) ... (?) magistri (?) Philippi Fantonii ... (?) in Pt<olom>ei Quadripartitum. ~~Completus die Iovis 26 Ianuarii hora ... (?) 1558.~~
= **Giuliano Ristori**, (*Lectiones in Quadripartitum*) (C.2.23). I, 1r–126v; II, 127r–236r; III, 236v–380v; IV, 381r–440v. Marginal notes by the scribe and by at least one other hand, including a note in Italian mentioning the year 1554 f. 93v.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. G.I.1690

s. XV^{ex}. **Prov.:** Florence, Basilica della Santissima Annunziata.

Paper, 146 f., a single hand.

Ptolemaica (single text). Blank: 146v.

Bibl. *IMCS*, 25.

1r–146r 'Reverendissimo in Christo patri ac domino domino Bessarioni episcopo Tusculano, sanctae Romane Ecclesiae cardinali, patriarcae Constantinopolitano, Ioannes de Monte Regio se offert devotissimum. Admiranti michi saepenumero

vel potius graviter et inique serenti tam raros esse aetate nostra optimarum... (2v) Recte profecto meo iudicio nobiliores philosophi, o Sire, distinxerunt inter theoricam philosophiae et practicam partem — quod postremo hoc in theoreumate explorare et coepto labori modum statuerit decrevimus. Finis epithomatis Ioannis de Monte Regio in Almagestum Ptolomei.’

= **Johannes Regiomontanus, *Epitome Almagesti* (C.1.21)**. Preface, 1r–2v; I, 2v–15r; II, 15r–26v; III, 27r–40r; IV, 40v–49r; V, 49r–64r; VI, 64r–78r; VII, 78r–84v; VIII, 84v–92v; IX, 92v–104r; X, 104v–115r; XI, 115r–125r; XII, 125r–132r; XIII, 132r–146r. No glosses.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. J.II.10 (San Marco 200)

s. XIII^{ex}–XIVⁱⁿ (eclipse predictions for 1287–1300 f. 140v–141r; added astronomical note for 1316 f. 142v; after 1290, cf. f. 185r–188v). **Or:** Italy. **Prov.:** Filippo di ser Ugolino Pieruzzi (d. c. 1462); Cosimo de’ Medici (1389–1464), who donated the MS to the convent San Marco in Florence (f. Ir: ‘Hic liber est conventus sancti Marci de Florentia ordinis predicatorum, quem donavit vir clarissimus Cosmus Medicus prescripto convent. Hunc librum emit dominus Cosmus de Medicis civis Florentinus ab heredibus ser Philippi ser Ugolini Peruçii’).

Parchment, I + 240 + I^a f. (the modern foliation in pencil, used here, differs from the old one from f. 57 onwards as follows: new f. 57–232 = old f. 65–240 and new 233–40 = old f. 265–272), several hands, one of which copied f. 85r–91v, 167v–201v, 209r–215r and 227r–231v; and another f. 92r–118v and 143r–167r.

Astrology, astronomy and various: table of contents drawn up in 1471 by Leonardo Ser Uberti, librarian of San Marco (Ir and I^r, ed. Björnbo, 62–63); Albumasar, *Introductorium maius*, tr. Hermann of Carinthia, I–VII.9 (1r–54vb); Adelard of Bath, *De opere astrolapsus*, beginning missing ‘Incipit tractatus de spera solida. A phisicis spera gestibilis ad exemplum composita...’ (57ra–64rb); Seneca, *Epistolae* and other texts (65r–84v); Avicenna, *De mineralibus* (85r–86v); Pseudo-Aristotle, *De mundo*, tr. Nicolaus Siculus (86v–90v); **Ptolemaica (91r–118v)**; Aomar, *De nativitatibus* (119r–140v); eclipse predictions 1287–1300 (140v–141r); Gerlandus, *Computus* (141v–142v); Alfraganus, *De scientia astrorum*, tr. John of Seville (143r–167r); Adelard of Bath (?), ‘Liber de diversis speciebus astralabiorum et earum... Astralabiorum igitur sex sunt species...’ (167v–168r); canons of Toledan tables (169r–184v); Prophantius Judeus, *Quadrans novus* (185r–188v, version dated 1290); Pseudo-Messahallah, *De compositione astrolabii* (189r–208v); ‘Liber de eclipsi Solis et Lune. Cum annos Arabum et menses et per consequens...’ (209r–214r, with table f. 215r); ‘Ad sciendum in quolibet mense anni an possit fieri eclipsis Solis vel Lune...’ (216r–226v); ‘Circularum alius est sub quo, alius in quo, alius quo planete circumferuntur...’ (227ra–231va); ‘Descriptiones climatum et mutationes horologiorum...’ (232ra); end of an unidentified astrological text ‘... forte proprietatibus et talibus nominantur. Explicit de pluviis et grandieribus (!)’ (233r); Messahallah, *Epistola de rebus eclipsium* (233ra–236ra); ‘Cognitio temporum precipua. Scito quod figura planetarum levium...’, incomplete (236ra–240vb). According to the table of contents (f. Ir and I^r), eight folia are now missing between current 54 and 55 (old f. 57–64), which contained Peter Peregrinus of Maricourt’s *De magnete* (old f. 57-) and Robert Grosseteste’s (?) *De impressionibus aeris*, wrongly identified with Book

III of Pseudo-John of Seville's *Epitome totius astrologie* (old f. 60-), and 14 folia are missing between current f. 232 and 233 (old f. 241–264), which contained Zael's *Liber iudiciorum* (old f. 241-) and Pseudo-John of Seville's *Epitome totius astrologie* (old f. 250-). Blank: 55r–56v, 64v, 168v, 214v, 215v, 232v.

Bibl. *IMCS*, 32; *ALC*, I.2, 961 (no. 1403); Ullman/Stadter 1972, 208–09 (no. 737); Björnbo 1976, 61–69 and 128–30; Kristeller 1963–1992, V, 590; P. Kunitzsch, 'On Six Kinds of Astrolabe: a Hitherto Unknown Latin Treatise', *Centaurus* 36 (1993), 200–08; d'Alverny 1994, 407–08; Lemay 1995–1996, VII, 27–51; Pedersen 2002, I, 118–19.

91r–118v 'Incipit Quadripartitum Ptholomei [title added in upper margin]. Incipit Quadripartitum Tholomei. <P>rolixitatis exosa Latinitas artium principia — inveniet. Quoniam ergo iuxta propositum nostrum in astrorum iudicia viam universalem tradidimus, congruum est ut huic tractatui nostro finem imponamus. Perfecta est huius libri translatio 29 die Augusti anno domini 1206 et 23 die Almuham anno Arabum 603, et Deus melius novit. Explicit Quadripartitum Pthol<ome>i in iudicia astrorum secundum accidentia editum.'

= **Ptolemy, *Quadripartitum*, tr. 1206 (A.2.3)**. Translator's preface, 91r; I, 91r–99r; II, 99r–105v; III, 105v–113v, IV, 113v–118v. No glosses.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. J.III.24 (San Marco 177)

s. XIII^{med}. **Or.:** perhaps Italy, by a scribe who displays clear English features acc. Georges. **Prov.:** Filippo di ser Ugolino Pieruzzi (d. c. 1462); Cosimo de' Medici (1389–1464), who donated the MS to the convent San Marco in Florence (f. Iv: 'Iste liber est conventus sancti Marci de Florentia ordinis predicatorum, quem habuit a clarissimo viro Cosmo Medice cive Florentino, per eum emptus ab heredibus ser Phylippi ser Ugolini Peruçii de Vertine').

Parchment, I + 77 f. (foliation in pencil in lower left corner), a single neat hand, reserved initials.

Ptolemaica (single text). Blank: I (except for ex-libris f. Iv), 76v.

Bibl. *IMCS*, 33; Ullman/Stadter 1972, 208 (no. 736); Björnbo 1976, 30–31 and 109; Kristeller 1963–1992, I, 150, and V, 590; Kunitzsch 1986–1991, II, 14; Georges (forthcoming).

1ra–76rb ' <Q>uidam princeps nomine Albuguafe in libro suo quem scientiarum electionem per verborum nominavit... (1rb) Capitulum I ut supra [reference to chapter index f. 1ra]. onum scire fuit quod sapientibus non deviantibus visum est — et abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro.'

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Translator's preface, 1ra–1rb; I, 1rb–7ra; II, 7rb–17ra; III, 17ra–21va; IV, 21va–28rb; V, 28rb–35rb; VI, 35rb–42va; VII, 42vb–47rb; VIII, 47rb–51ra; IX, 51ra–57rb; X, 57rb–61ra; XI, 61ra–66vb; XII, 66vb–71ra; XIII, 71ra–76rb. Occasional short marginal notes (more substantial f. 32r) by a later hand, similar to the

14th- or 15th-c. hand that copied MS → Florence, BNC, Conv. Soppr. J.IV.20 probably in Florence (Georges).

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. J.III.28 (San Marco 180)

s. XIV¹ (f. 1–74; late 14th c. for f. 75–82, see Murano, ‘Una miscellanea’, 314). **Or.:** Italy. **Prov.:** Coluccio Salutati (1331–1406); convent San Marco in Florence by 1471 (cf. f. Iv).

Parchment, I + 82 f., a neat hand copied f. 1–74 and several later hands copied f. 75–82.

Astrology: table of contents drawn up in 1471 by Leonardo Ser Uberti, librarian of San Marco (Iv); **Ptolemaica (1ra–19ra and 19ra)**; *Liber novem iudicum* (20ra–66ra); three medical recipes, added (66rb); Aomar, *De nativitatibus*, beginning missing (67ra–73rb); ‘Iudicandi summa hic breviter continet. Primum enim aspiciendum...’ (73rb); Messahallah, *Epistola de rebus eclipsium* (73rb–74rb); ‘Cum Luna fuerit Capite vel Cauda in uno signo...’ with table: elections from the aspects of the Moon with the other planets (74rb–74v); table: *De electionibus secundum cursum Lune per XII signa*, 44 topics (74v); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen, excerpts (75ra–75va); short astrological chapters attr. Habraam, Plinius, Doratius, Alfadal filius Ablezehel, Noffil and Mesahala: ‘Capitulum in pretio rerum secundum Habraam. Dicit: Quando scire volueris carestiam aut mercatum...’ (75va–77ra); Bethen, *Centiloquium* (77rb–78rb); table: elections from the aspects of the Moon with the other planets (78rb); ‘Incipit liber ... (?)’. Nota quod inquit Aristotiles quod cum volueris sumere farmaziam...’ (78va); ‘Nota de faciebus signorum secundum Haly...’ (78va–78vb); ‘Dicto de significationibus Capitis et Caude per unius...’ (79ra–81vb); ‘Aphorismi Haly cum verbis Alchindri in questione pro capto et captivo...’ (82ra–82vb). Blank: Ir, 19v, 66v. The table of contents f. Iv shows that the MS originally contained 108 f., including the following texts (see also Murano, ‘Una miscellanea’, 312–13): Haly Embrani, *De electionibus horarum* (formerly f. 69, after the *Liber novem iudicum*); ‘Liber Atharbe Ptholomei de qualitatibus septem planetarum. Solis naturam apud omnes calidam et siccam constat esse...’ (formerly f. 85, after Aomar’s *De nativitatibus*, see Note below); *Capitula Almansoris* (formerly f. 97); and *Astronomia Ypocratis* (formerly f. 99, just before Abraham Avenezra’s *De mundo vel seculo*).

Note As noted by Murano (‘Una miscellanea’, 313 and n. 21), the incipit of the Ptolemaic section now missing in the MS (see above) corresponds to Ptolemy, *Quadripartitum*, tr. Hugo Sanctelliensis (A.2.2), I.4. According to the table of contents f. Iv, this text began on former f. 85 and was followed by the *Capitula Almansoris* on former f. 97. This range of folia (f. 85–97) would have been enough to contain most of the *Quadripartitum* opening with ch. I.4.

Bibl. IMCS, 33; Ullman/Stadter 1972, 209 (no. 740); Björnbo 1976, 33–37 and 110–12; Kristeller 1963–1992, I, 150, and V, 590; G. Murano, ‘Una miscellanea astrologico-astronomica’, *Nordic Journal of Renaissance Studies* 18 (2022), 307–20: 314–18 and *passim*.

1ra–19ra ‘Quadripartitus Ptholomei Alfili in scientia iudiciorum astrorum [title in upper margin, apparently in another hand]. Rerum, Yesure, in quibus est pronosticabilis

scientie stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro finem imponere non incongruum existimamus. Explicit.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 1ra–5va; II, 5va–9va; III, 9va–15va; IV, 15va–19ra. Glosses by the scribe (substantial on f. 16v–17r), some of which are introduced by ‘Sensus huius littere...’ or refer to ‘Haly’. A few glosses by a later hand.

- 19ra ‘Cum projectionem radiorum stellarum scire volueris, scias gradus ascendentis — et quod collectum fuerit erit locus radiationis equate.’
= **Pseudo-Ptolemy, *Liber projectionis radiorum stellarum* (B.6)**.
Glosses by another hand.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. J.IV.20 (San Marco 182)

s. XIV²–XV (in or after 1364, cf. f. 216v; f. 160–185 copied in or after 1406, date mentioned f. 183v). **Or.:** Italy, probably Florence, for f. 1–159 and 186–229, copied by the same scribe who copied MS $\rightarrow$ Florence, BNC, Magliabech. XI.114; f. 160–185 were copied in Spain or southern France acc. Georges. **Prov.:** Filippo di ser Ugolino Pieruzzi (d. c. 1462); Cosimo de’ Medici (1389–1464), who donated the MS to the convent San Marco in Florence (cf. inner front cover: ‘Iste liber est conventus sancti Marci de Florentia ordinis predicatorum, quem habuit a clarissimo viro Cosmo Medice cive Florentino, per eum emptus ab hereditate ser Philip<pi> ser Ugolini Peruçii de Vertine’).

Paper, 229 f., two hands: I, f. 1–159 and 186–229; II, f. 160–185.

Astronomy and astrology: ***Ptolemaica* (1r–140r)**; notes of geometry in Italian (145r–146r); drawings of regular polygons (146v); astronomical notes ‘Diameter Solis sic invenies...’ (147r); chiromancy ‘Si linea vite sit grossa...’ (148r–149r); Albohali, *De nativitatibus*, tr. Johannes Toletanus, excerpt ‘Modus qui debes prospicere iudicia 12 domorum...’ (150r–151v); notes on Alcabitus’s *Introductorius* ‘Ad intelligendum illud quod dicit Alcabitus de directionibus significatorum...’ (152r–152v); ***Ptolemaica* (153v–158v)**; geographical coordinates of cities (159v); Bonfils [Immanuel ben Jacob], astronomical tables (160r–182r) and canons (183r–185r); Toledan tables (186r–211r); calendar (211v–214r); Alfonsine star catalogue (214v–216r); star table verified 1364 (216v); ‘Expositio eorum que secundum pararillorum ydiomatum. Eodem autem modo his et maliis parallilis...’ (217r–217v); sine tables (218r–229r). Blank: 140v–144v, 147v, 149v, 153r, 159r, 182v, 185v, 229v.

Bibl. *IMCS*, 34; Ullman/Stadter 1972, 208 (no. 735); Björnbo 1976, 38–41 and 112–13; Kristeller 1963–1992, I, 162, and V, 590; Kunitzsch 1986–1991, II, 21–22; Pedersen 2002, I, 119; Georges (forthcoming).

- 1r–140r ‘Quidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit — (1v) propinque non dulcescunt. Capitulum primum in prologo huius libri. Bonum quod fecerunt in eo quod video illi qui perscrutati sunt... (2r) Liber hic precepto Maimonis regis Arabum, qui regnavit in Baldabe (?)... (2v) Capitulum primum in quo

hec scientie excellentiam et finem eius utilitatis dicam. Bonum domine fuit quod sapientibus non deviantibus visum est — (133r) Capitulum quartum in positione differentiarum tabularum motuum mediorum qui (!) sunt 5 stellarum erraticarum in longitudine et diversitate. Et hec est lineatio tabularum' (followed by the table 'Motus Saturni in annis coniunctis longitudinis et diversitatis' f. 133r and empty tables f. 133v–140r).

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. The text ends towards the beginning of IX.4, with the first table of that chapter. Preface (first part), 1r–1v; alternative translation of ch. I.1 (= Iṣḥāq's version), 1v–2r; preface (second part), 2r–2v; I, 2v–16r; II, 16r–40v; III, 40v–55r; IV, 55r–73r; V, 73r–91v; VI, 91v–107v; VII, 107v–119v; VIII, 120r–130r; IX, 130r–140r. Most values are missing in the star catalogue (VII.5–VIII.1). Substantial glosses by the scribe in Books I–III, fewer glosses from Book IV onwards.

- 153v–158v 'Capitulo octo libri 2 Almagesti. Expositio earum que canoniorum dechamirias in unoquoque pararillo ascensionum... (155r) Capitulo 17^o libri 5 Almagesti. Canon paralaticus... (155v) Capitulo octo libri 6 Almagesti. Expositio canoniorum eclipticorum... (156r) Capitulo 8^o libri 6 Almagesti... (156v) Capitulo undecimo libri primi Almagesti... (158r) Capitulo quinto libri 13 Ptholomei. Expositio canoniorum eius quod secundum latitudinem... (158v) Capitulo sexto libri 13^m Almagesti. Computus eius que secundum latitudinem recessionis quinque planetarum. His ita se habentibus docebimus — ipsorum progressionem cognoscemus.'
- = **Ptolemy, *Almagesti*, tr. Sicily c. 1150 (A.1.1)**, excerpts consisting of a selection of tables from II.8, 153v–154v; V.17, 155r; VI.8, 155v; I.11, 156v–157v; and XIII.5, 158r; and ending with the text from XIII.6, 158v. No glosses.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. J.IX.39 (San Marco 348)

s. XII^{ex}–XIIIⁱⁿ. **Prov.:** Coluccio Salutati (1331–1406); Niccolò Niccoli (1364–1437), who bequeathed the MS to the convent San Marco in Florence.

Parchment, I + 40 f., two hands (I: f. 1–32; II: f. 33–40), painted initial f. 1r, representation of Ptolemy (?) f. 13r, decorated initials.

Scientific and philosophical texts: table of contents, contemporary (Iv); *Asclepius* (1r–12r); ***Ptolemaica* (13r–32r)**; names and symbols of the planets and lunar nodes (32v); Apuleius, *De deo Socratis* (33r–40v). Blank: Ir, 12v.

Bibl. *IMCS*, 37; Ullman/Stadter 1972, 200 (no. 672); Björnbo 1976, 92–93 and 141; Kristeller 1963–1992, V, 590; Pingree 1997, 13–14.

- 13r–32r 'Canones Pholomei (!). Intellectus climatuum poli sepiissime requires si inveneris platos civitatis — (25v) requires superiorem et inferiorem et addes

aut deduces. Qua Sol detrahes centro Lune — et superaddis, et si Luna plures partes habuerit' (followed by the tables f. 26r–32r).

= *Preceptum canonis Ptolomei* (A.7.1). No glosses.

Florence, Biblioteca Nazionale Centrale, Conv. Soppr. J.X.20 (San Marco 163)

s. XIV^{ex}–XVⁱⁿ. **Prov.:** Niccolò Niccoli (1364–1437), who bequeathed the MS to the convent San Marco in Florence.

Parchment, 40 f., a single hand.

Astrology: *Ptolemaica* (1r–17v and 17v–18r); 'Cum volueris scire colorem eclipsis, aspice latitudinem Lune...' (18r); 'Mansiones Lune sunt 28 quarum cuilibet dantur 12 gradus zodiaci et 15 minuta et 26 secunda...' (18r–18v); 'Sequitur de ymaginibus ascendentibus in faciebus 12 signorum zodiaci. In prima facie Arietis ascendit forma hominis nigri induti...' (18v–19r); 'Secundum Albumazar in libro secundo Introductorii stelle fixe in octava spera que vadunt in 100 annis...' (19r); Haly Embrani, *De electionibus horarum* (19r–36v); Hermes/Enoch, *Liber imaginum signorum* (36v–38r); astrometeorology and *prognostica* 'Presagia tempestatis cum fulgur aut candor stelle...' (38r–40v).

Note This MS was probably the model of MS → Cesena, BCM, Plut. S.XXVII.1, f. 210–235.

Bibl. *IMCS*, 38; Ullman/Stadter 1972, 202 (no. 683); Björnbo 1976, 29–30 and 108–09; Kristeller 1963–1992, I, 151; Lemay 1999, I, 245–46.

1r–17v 'Centilogium Ptholomei cum commento Haly. <M>undarnorum ad hoc et ad illud mutacio celestium corporum mutatione contingit, rerum igitur causas rimaturo opus est celestia contemplari. Dixit Ptho<lome>us: Mundanorum etc.: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... <S>ciencia stellarum est ex te et ex illis... Cum dixit Ptholo<me>us, ex te et ex illis, significat quod qui res futuras — Et ego precor Deum ut te dirigat. Perfecta est huius libri translatio tertio die mensis Martii, secundo die mensis Imaedii secundo anno Arabum tricesimo. Explicit Centilogium Ptholomei cum commento Haly.'

= Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1), with the first sentence from the 'Mundanorum' version (C.3.1.3). No glosses.

17v–18r ' <P>tholomeus dixit quod stelle cum caudis sunt 9 — significat magnam mortalitatem et decollationem.'

= Pseudo-Ptolemy, *De cometis* (B.4). No glosses.

Florence, Biblioteca Nazionale Centrale, Magliabech. XI.103

s. XVI¹ (1547–1548). **Or.:** copied by Amerigo Roncioni at the University of Pisa. **Prov.:** 'Francisci Caesaris Augusti munificentia' (inner front cover); Antonio Magliabechi (d. 1714).

Paper, 73 f. (unfoliated), a single hand.

Ptolemaica (single text). Blank: 1, 68–73.

Bibl. G. Targioni-Tozzetti, *Fondo Magliabechiano. Inventario dei manoscritti* (handwritten catalogue), IV, 267r; Kristeller 1963–1992, I, 118.

2r–67v ‘Lectura super Ptolomei Quadripartitum reverendi ac eximii magistri Iuliani Ristorii Pratensis, per Amerigum Roncionem Pratensem currenti calamo collecta. Incipit liber tertius. Lectio LXII^a. <H>uc usque accidentia generalia: Ista est secunda pars principalis huius voluminis in qua Pto<lomeus> pertractat — item animae nimium fuerit prestans ut predicat futura dicitur et...’
= **Giuliano Ristori**, (*Lectiones in Quadripartitum*) (C.2.23), Book III only, ending incomplete in the middle of Lecture 78 at the bottom of f. 67v. The text was once more complete, as suggested by the catchword f. 67v. No glosses. Books I and II by Amerigo Roncioni are in MS → Florence, BR, 157.

Florence, Biblioteca Nazionale Centrale, Magliabech. XI.114

s. XIV²–XV. **Or.:** Italy, probably Florence (copied by the same scribe who copied MS → Florence, BNC, Conv. Soppr. J.IV.20). **Prov.:** family Strozzi.

Paper, 2 vols (36 + 24 f., with modern foliation in pencil in the first volume), a single hand. These two volumes originally formed one MS, previously foliated ‘57–110’ (with gaps) for the first volume and ‘1–24’ for the second volume.

Astronomy: Andalo di Negro, *Theorica distantiarum omnium sperarum* (I/1r–8v); Hyginus, *De astronomia*, Books III–IV and I–II (I/9ra–19vb); **Ptolemaica** (I/21r–36v); Hyginus, *De astronomia* (II/1ra–22vb). Blank: I/20, II/23r–24v.

Bibl. G. Targioni-Tozzetti, *Catalogo dei codici della libreria Stroziana...*, I, Firenze, 1759 (handwritten catalogue), 278; A. Galante, ‘Index codicum classicorum Latinorum qui Florentiae in Bybliotheca Magliabechiana adservantur. Pars II (cl. VII–XL)’, *Studi Italiana di Filologia Classica* 15 (1907), 129–59: 140–41; P. McGurk, *Astrological Manuscripts in Italian Libraries (Other than Rome)*, London, 1966, 33–35; Kristeller 1963–1992, I, 114; Blume/Haffner 2012–2016, II.2, 559–61.

I/21r–36v ‘Exportio canonica descriptionis stellarum secundi boreale episperio. Formationes. Ursa Minor. Que in extremo Caude: Gemini 0° 10′ – 66° 0′ – Bor. – 3. Que post ipsa in Cuada (!): Gemini 2° 30′ – 70° 0′ – Bor. – 4 — obscure 9, nubi similis 5, 7 crinis.’
= **Ptolemy**, *Almagesti*, tr. Gerard of Cremona (A.1.2), VII.5–VIII.1, star catalogue. No glosses.

Florence, Biblioteca Nazionale Centrale, Magliabech. XI.144

s. XV^{ex} (in or after 1476–1477, cf. colophons f. 15v, 24r, 105v, 121v, 129r, 130r and 137v). **Or.:** Buda (cf. colophons f. 15v, 24r, 105v and 129r), this MS must be related to and perhaps copied under the supervision of Martinus Bylica de Olkusz (cf. ‘Martinum Polonum de Ilkusch’ f. 128r–130r). **Prov.:** Theatine Order (‘Teatini’, inner front cover), i.e. the church Santi Michele e Gaetano in Florence, after 1592; family Strozzi.

Paper, II + 138 f., a single neat hand.

Astronomy: table of contents by a later hand (Ir); Peurbach, *Theoricae novae planetarum* (1r–15v); Regiomontanus, letter to Bishop János Vitéz dated 1460 ‘Sol habet duos orbes mundo concentricos...’ (16r–17v, ed. and tr. Swerdlow); Regiomontanus, *Contra Cremonensia in planetarum theoricis deliramenta* (18r–24r); **Ptolemaica (24v–105v)**; Regiomontanus, *Canones astrolabii armillaris* ‘Canones astrolabii armillaris a magistro Ioanne de Regio Monte editi incipiunt. Astrolabium armillare quo Ptolomeus plurimum usus est...’ (106r–106v); ‘Organum Ptolomei cuius adminiculo longitudines ac latitudines locorum in superficie terrestri inquiruntur si recte mentem opificis auguror in hunc ferme modum componitur’ (107r–108r); Regiomontanus, *De torqueto* (109r–121v); ‘Canones pro astrolabio magistri Iohannis de Regiomonte incipiunt. Verum locum Solis in dorso astrolabii... Explicunt canones astrolabii a magistro Georio Peverbach editi anno domini 1460’ (121v–127v); ‘Canones astrolabii quorundam secundum modum rationabilem per magistrum Martinum Polonum de Ilkusch editorum incipiunt. Horas per azmuth Sole prope meridianum... Finis canonum quorundam astrolabii modum rationabilem per magistrum Martinum de Ilkusch editorum 1476 corrente Bude’ (128r–129r); ‘Canones pro equatorio planetarum per magistrum Martinum Polonum incipiunt feliciter. Priusquam modus operandi cum instrumento planetarum... Finis canonum cuiusdam equatorii planetarum per magistrum Martinum Polonum editorum anno domini 1476 corrente’ (129r–130r); Peurbach, *Canones pro compositione et usu gnomonis geometrici* (130v–137v, with figure 138r); ‘Canones gnomonis facti per magistrum Iohannem de Regiomonte pro serenissimo principe et domino Mathia Dei gratia rege Hungarie, Bohemie, Dalmacie etc. in civitate Histropolitana anno domini 1468 corrente...’, end gone (138r–138v). Blank: Iv–IIv, 108v. According to the table of contents f. Ir, the last item of the MS was ‘Tractatus quorundam de nativitatibus, 139’.

Bibl. G. Targioni-Tozzetti, *Catalogo dei codici della libreria Stroziana...*, I, Firenze, 1759 (handwritten catalogue), 285a; Zinner 1962, 26–27; Kristeller 1963–1992, I, 125–26; N. M. Swerdlow, ‘Regiomontanus’s Concentric-Sphere Model for the Sun and the Moon’, *JHA* 30 (1999), 1–23: 2–3; Malpangotto 2020, 652–53.

24v–105v ‘Reverendissimo in Christo patri ac domino domino Bessarioni episcopo Tusculano, sancte Romane Ecclesie cardinali, patriarche Constantinopolitano, Iohannes Germanus de Regiomonte se offert devotissimum et cetera. <A>dmiranti michi sepenumero vel pocius graviter et inique serenti tam raros esse etate nostra optimarum... (25v) Prohemium Iohannis Germanus de Regiomonte exit feliciter [followed by a 33-line blank space]. Liber primus Epitomatis in Almagestum Ptholomei incipit feliciter. (26r) <R>ecte profecto meo iuditio nobiliores philosophi, o Sire, distinxerunt

inter theoricam philosophie et practicam partem — quod postremo hoc in theoreumate explorare et cepto labori modum statuere decrevimus. Amen. Liber terciusdecimus Epitomatis in Almagestum Ptolomei anno domini 1477 Bude explicit feliciter. Finis.’

= **Johannes Regiomontanus, *Epitome Almagesti* (C.1.21)**. Preface, 24v–25v; I, 25v–32r; II, 32r–38r; III, 38r–45r; IV, 45r–50r; V, 50r–58v; VI, 58v–66r; VII, 66v–69v; VIII, 69v–75v; IX, 75v–81v; X, 81v–87v; XI, 87v–93r; XII, 93r–97v; XIII, 97v–105v. No glosses.

Florence, Biblioteca Nazionale Centrale, Magliabech. XX.22

s. XIV¹. **Prov.:** Gino di Neri di Gino Capponi of Florence (d. 1487), cf. f. Ir: ‘Questo libro e di Gino di Neri di Gino Capponi cittadino fiorentino’; Antonio Magliabechi (d. 1714).

Parchment, I + 204 f., a single neat hand, painted initials at the beginning of each section, numerous decorated initials.

Astrology: ***Ptolemaica* (1ra–18vb)**; Messahallah, *Epistola de rebus eclipsium* (19ra–20vb); ***Ptolemaica* (21ra–204vb)**.

Bibl. G. Targioni-Tozzetti, *Fondo Magliabechiano. Inventario dei manoscritti* (handwritten catalogue), VI, 92r–93r; Kristeller 1963–1992, I, 120; Calcagno 2021, 28–30.

1ra–1rb ‘Dixerunt Ptolomeus et Hermes quod locus Lune — et hoc fuit expertus multotiens, id est non erit gradus ascendens hora nativitatis ex toto loco Lune hora infusionis spermatis vel ipse erit vel ei oppositus.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). Glosses by the scribe.

1rb–1vb ‘Ptolo<meus> dixit quod stelle cum caudis sunt 9 — quicquid significat in regibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). Glosses by the scribe.

1ra–18vb ‘Incipit liber centum verborum Ptolomei. Dixerunt Ptolomeus et Hermes quod locus Lune — (1rb) et hoc fuit expertus multotiens, id est non erit gradus ascendens hora nativitatis ex toto loco Lune hora infusionis spermatis vel ipse erit vel ei oppositus. Ptolo<meus> dixit quod stelle cum caudis sunt 9 — (1vb) quicquid significat in regibus apparebit. Dixit Ptolo<meus>: Iam scripsi tibi, Peruse (!), libros de hoc quod stelle in hoc seculo operantur... Verbum primum. Scientia stellarum ex te et illis est... Quod autem dixit Ptolo<meus>, ex te et illis, significat quod qui res futuras — Precor itaque Deum ut diligat te. Perfecta est huius libri translatio 17 die mensis Martii, 12 die mensis Gumedi secundi anno Arabum 530. Deo gratias. Amen.’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium***, **tr. Plato of Tivoli (C.3.1.1)**, introduced by Pseudo-Ptolemy’s *Dixerunt*

Ptholomeus et Hermes quod locus Lune... (B.5) on f. 1ra–1rb (see above) and *De cometis* (B.4) on f. 1rb–1vb (see above). An additional commentary, marked as ‘Glosa’, has been inserted into the text of v. 23 (5ra: ‘Glosa. Habitus stellarum quadruplex...’), 60 (11rb: ‘Glosa. Adde super ascensiones gradum Lune...’; 11va: ‘Glosa. Sensus huius capituli talis est quod illud quod significat coniunctio maior...’ [this lengthy comm. to v. 60 is edited by G. Dell’Anna 1999, I, 140–41 n. 8]), 64 (12rb: ‘Glosa. In coniunctione maiori est distinctio...’) and 78 (14vb: ‘Glosa. Planete in nativitate et revolutione...’). Glosses by the scribe and a few short glosses by a later hand.

21ra–204vb ‘Prologus super Quadripartiti Ptolomei et super glosis eiusdem Hali Ha... (?) commentatoris. Tratatatus (!) primus glose Hali Habenrudiani super prima parte libri quadripartiti Ptolomei P<er>eludiani. Dixit Hali... (25ra) Incipit expositio Haly Abenragel super Quadripartitum Ptolomei et primo super primo libro ipsius Quadripartiti. Dixit (?) Egidius Parmensis de Thebitois (!) Lombardus et de civitate Parmensi: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (25va) Tractatus primus glose Haly Abenrudiani super prima parte Quadripartiti Ptolomei Phelludiani. Dixit Haly: (25vb) Verba que dixit sapientissimus Ptolomeus in arte iudiciorum... (28va) Tractatus primi libri quadripartiti Ptolomei in dividendo per verba eius. Dixit Ptolomeus: Res, o Misor, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit commentum Haly super libro quarto tractatum Ptolomei Pheludiani. (200va) De tribus nativitatibus. Volo in hoc loco tibi dare exemplum nativatum ut melius intendas quicquid locuti sumus in eis, in prima (!) est natitas (!) mea — (204va) hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Volui probare utrum auctor iste iudicaret secundum nonam speram vel secundum octavam, et inveni per loca planetarum que ponit in figura sue (204vb) nativitatis quod ipsa fuit annis Christi perfectis 986, 10 mensibus, 15 die Ianuarii, qua die equavi planetas secundum tabulas Mach<linienses> et inveni sic.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Chapter index, 21ra–22rb (f. 22v–24v are blank); translator’s preface, 25ra–25va; Haly’s preface, 25va–28va; I, 28va–86rb; II, 86rb–128vb; III, 128vb–169vb; IV, 169vb–200rb; Haly’s appendix, 200va–204va; additional note, 204va–204vb. A few short glosses by two or three later hands.

Florence, Biblioteca Nazionale Centrale, Magliabech. XX.23

s. XVIⁱⁿ (1501, cf. colophon). **Or.:** Italy. **Prov.:** Giovanni Gaddi (1493–1542), cf. f. 1r; Antonio Magliabechi (d. 1714).

Paper, IV + 122 f., a single hand.

Astrology: Petrus Bonus Advogarius, zodiacal chorography ‘Civitates Arieti subiectae. Florentia, Faventia, Neapolis...’ (IIr); tables ‘Gradus qui tenebrosi, lucidi, vacui et fumosi dicuntur’ (IIv); **Ptolemaica (1r–113v)**; table of contents (114r–114v); George of Trebizond, *Liber de antisciiis* (119r–121v, incomplete ‘... vel ut verius dicam exiliores’). Blank: I, III–IV, 115r–118v, 122.

Bibl. G. Targioni-Tozzetti, *Fondo Magliabechiano. Inventario dei manoscritti* (handwritten catalogue), VI, 93r; Kristeller 1963–1992, I, 120; Monfasani 1984, 19; Rinaldi 2002, 110 (no. 1).

1r–113v ‘Ioannis Ioviani Pontani liber primus commentationum in centum sententiis Ptolomei ad ill<ustre>m principem Federicum ducem Urbini foelicititer incipit. Tametsi publicarum rerum administratio, bellique gerendi cura detertere me iure possent, Federice dux fortissime... (2r) De mathematici officio et quod est [title in upper margin]. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronuntiet... Nec medici, nec moralis philosophi sola est cognitio, sed quaedam etiam operatio — tum stellarum radii vel trahentes eas, vel impellentes pro qualitate aspectus et virium efficatia. Τελωσ. Absolutus liber quinto calen<dis> Decembris, h<ora> XX, MDI.’
= **Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16)**. Marginal notes and corrections by the scribe.

Florence, Biblioteca Nazionale Centrale, Panciatichiano 309

s. XVII. **Or.:** probably Italy. **Prov.:** Family Panciatichi since Niccolò Panciatichi in 1751; the Panciatichi library was acquired by the Biblioteca Palatina in Florence in 1859.

Paper, 115 f., a single hand.

Astrology: title page ‘De errantium qualitatibus et dominio’ (1r); ‘Ex quodam manuscripto Ioviani Pontani De errantium qualitatibus et dominio’ (2r–27r); ‘Ex Stadii [Johannes Stadius] Tractatus de fixis’ (27v–31r); **Ptolemaica (32r–90v)**; epitome of Girolamo Cardano’s *Liber duodecim geniturarum* (91r–112v). Blank: 1v, 31v, 113–15.

Bibl. *I manoscritti Panciatichiani della Biblioteca Nazionale Centrale di Firenze*, II.1, Roma, 2003 [*Indici e cataloghi. Nuova Serie*, XV], 174–75.

32r–90v ‘Epitome comentariorum auctoris incerti nominis in Ptolemei de astror<um> iudic<iis> lib<ri> 4. Duo sunt principia praecipua astronomicae scientiae. Primum est cognitio stellarum tam erraticarum quam fixarum — Haec autem dicta sufficiant circa explanationem quatuor librorum Ptolemei.’
= **Epitome comentariorum auctoris incerti nominis in Ptolemei de astrorum iudiciis libri 4** (C.2.29). I, 32r–42r; II, 42r–59v; III, 60r–77r; IV, 77r–90v. No glosses.

Florence, Biblioteca Riccardiana, 157

s. XVI¹ (1547–1548). **Or.:** copied by Amerigo Roncioni at the University of Pisa.

Paper, 248 f., a single hand.

Ptolemaica (single text).

Bibl. *Inventario e stima della Libreria Riccardi. Manoscritti e edizioni del secolo XV*, Firenze, 1810, 8; Kristeller 1963–1992, I, 178; T. De Robertis, R. Miriello, *I manoscritti datati della Biblioteca Riccardiana di Firenze, I: MSS. 1–1000*, Firenze, 1997, p. 86 (no. 72).

1r–248v ‘Lectura super Ptolomei Quadripartitum reverendi ac eximii magistri Iuliani Ristorii Pratensis, per me Amerigum de Roncionibus dum eum publice legeret in almo Pisarum gimnasio currenti calamo collecta. Lectio prima. <Q>uum in omni scientia plura preponuntur atque, ut Averrois testis est — certissimae et comprobatae. Et haec quo ad istum secundum librum dicta satis sint. Finis secundi libri Quadripartiti.’
= **Giuliano Ristori**, *Lectiones in Quadripartitum* (C.2.23), Books I–II only. I, 1r–142r; II, 142r–248v. The beginning of Book III is in MS[→] Florence, BNC, Magliabech. XI.103. Occasional marginal notes by the scribe.

Florence, Biblioteca Riccardiana, 163

s. XIII^{ex} (Stefan Georges, private communication). **Prov.:** Florence, convent of San Marco, by the 15th c., cf. faded ex-libris f. 1v: ‘Liber ... (?) Sancti Marci de Florentia ordinis predicatorum’, and f. 2r: ‘Liber Sancti Marci de Florentia ordinis predicatorum.’

Parchment, 72 f., a single neat hand, decorated initials. At least one quire is missing between f. 36 and 37.

Astrology: alphabetical index to the *Centiloquium*, incomplete A–L (1r); **Ptolemaica** (2r–25v, 25v–26r and 26v); *Capitula Almansoris* (27r–32r); Alcabitus, *Introductorius*, I.1–44 (33r–36v, incomplete due to missing folia); Haly Embrani, *De electionibus horarum* (37r–71r). Blank: 1v (except for ex-libris and title ‘Centiloquium Ptolemei’), 32v, 71v–72v.

Bibl. *Inventario e stima della Libreria Riccardi. Manoscritti e edizioni del secolo XV*, Firenze, 1810, 8.

2r–25v ‘Incipit Liber centiloquii compositus a prudentissimo Ptholomeo super iudicia astrorum ad Iesurem discipulum suum. Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc mundo... Capitulum primum Centiloquii. Sciencia stellarum ex te et illis est... Expositio Haly Berodohan. Quod dixit Ptholomeus, ex te et illis, significat quod qui res futuras prenoscere — et ego Deum precor ut te diligat. Amen. Perfecta est huius libri translatio 17 die mensis Martii, 12 die mensis Iumedi secundi anno Arabum 530. Explicit liber Ptholomei qui dictus est centum verba.’

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**. Glosses by the scribe.

25v–26r ‘Tractatus Pthol<ome>i de 9 stellis caudatis seu cometis. Dixit Pth<olomeu>s quod stelle cum caudis sunt 9 — significabit mortalitatem multam et decollationem. De stella secunda que dicitur Tenaculum, nulla facit mentionem.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

26v ‘De loco Lune in hora infusionis spermatis secundum Ptholomeum et Hermetem. Dixerunt Pth<olomeu>s et Hermes quod locus Lune in hora qua infunditur — et hoc expertus fuit multotiens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.

Florence, Biblioteca Riccardiana, 885

s. XIII^{ex}–XIV¹ (Pedersen). **Or.:** the decoration (initials) points to Paris (information Stefan Georges), at least for f. 109–307 — the rest of the MS has reserved initials. **Prov.:** the MS (or, at least, f. 312–368) may have been in northern Italy by the second half of the 14th c., for the glosses on f. 350v (see) connect the appearance of a comet on 1 April 1368 with the entry of Emperor Charles IV in Padua on 25 April of the same year.

Parchment, 368 f., several hands. F. 109–123 form one codicological unit copied in one hand, with one or several folia missing at the end. F. 312–368 also form one codicological unit (no simultaneous change of hand and quire). One or several folia are missing at the beginning of the MS.

Astronomy, computus, optics and astrology: Robert Grosseteste, *De sphaera*, beginning gone (1ra–7vb); canons of Toledan tables (8ra–30vb); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (32r–53v); Pseudo-Messahallah, *De compositione astrolabii*, use (53v–57r); empty table meant for geographical coordinates of cities (57v); Campanus of Novara, *Theorica planetarum* (58r–104r); Pseudo-Messahallah, *De compositione astrolabii*, construction (104r–107r); added notes and diagrams of geometry, astronomy and astrology (107v–108v), including Jordanus de Nemore (?), ‘Ab eodem puncto quotlibet simul circulariter...’ (107v–108r); **Ptolemaica (109r–123v)**; Ibn Mu‘adh, *De crepusculis* (124r–131v); Euclid, *De visu*, ed. Witelo (?) (132r–143v); Roger Bacon, *De perspectiva* (144r–199v); *Liber de triangulis Iordani*, excerpts (199^{bis}r); Roger Bacon, *De speculis comburentibus* (200r–212r); Robert Grosseteste, *De cometis* (213r–214v); ‘Incipit prologus in assignationem errorum kalendarii et eorundem correctionem. Quoniam ex diversitate cursuum Solis et kalendarii scandalorum occasio...’ (215r–217v); calendar (218r–223v); Robert Grosseteste, *Compotus* (224ra–248rb), with tables (248rb–251r); Campanus of Novara, *Compotus maior* (252r–307v); calendar (308r–311r); Rabanus Maurus, *Liber de computo* (312r–346r); dimensions of Noah’s Ark ‘Moyses vir disciplinarum peritus...’ (346r–348v); Rabanus Maurus, *Liber de computo*, beginning only (349r); **Ptolemaica (350v–368v)**; astrological notes ‘Cum volueris de temperie vel intemperie aeris aliquid scire...’ (367v). Blank: 31, 199^{bis}v, 212v, 250r, 251v, 311v, 349v–350r.

Bibl. *Inventario e stima della Libreria Riccardi. Manoscritti e edizioni del secolo XV*, Firenze, 1810, 21; L. Thorndike, 'Notes upon Some Medieval Astronomical, Astrological and Mathematical Manuscripts at Florence, Milan, Bologna and Venice', *Isis* 50 (1959), 33–50: 38–40; Benjamin/Toomer 1971, 90; D. C. Lindberg, *Roger Bacon's Philosophy of Nature. A Critical Edition, with English Translation, Introduction, and Notes of De multiplicatione specierum and De speculis comburentibus*, Oxford, 1983, LXXIX; Clagett 1964–1984, V, 345; D. C. Lindberg, *Roger Bacon and the Origins of Perspectiva in the Middle Ages. A Critical Edition and English Translation of Bacon's Perspectiva, with Introduction and Notes*, Oxford, 1996, ciii; Lemay 1999, I, 246–47; Panti 2001, 256–57; Pedersen 2002, I, 121; Lohr/Nothaft 2019, 29–30.

- 109r–123v 'Almagesti [title in upper margin, perhaps by a later hand]. Omnium recte phantium (!) verisimilibus coniecturis etc. — notum per 18^{am} huius secondi A sit...'
= **<Commentum in Almagesti minorem> (C.1.7)**, abrupt end in II.35 due to missing folia, first paragraph blank. No glosses.
- 350v 'Prologus in Centilogium Pto<lome>i Pheludensis. Dixerunt Pto<lomeus> et Hermes quod locus Lune in hora in qua — fuit expertus multotiens.'
= **Pseudo-Ptolemy, Dixerunt Ptholomeus et Hermes quod locus Lune... (B.5)**, considered the 'prologue' to the *Centiloquium* below, but added by a later hand on what was originally a blank page. One short marginal note referring to v. 51 of the *Centiloquium*.
- 350v 'De stellis comatis [added title, perhaps by another hand]. Pto<lomeus> dixit quod stelle cum caudis sunt 9 — regibus et divitibus apparebit, morietur populus. Et cum Saturno mortalitas gravior, cum Marte vero guerre erunt quamplures et per gloriam (?) mortalitates, si autem cum Iove fiunt.'
= **Pseudo-Ptolemy, De cometis (B.4)**, added by the same hand that copied B.5 above. Glosses by what seems to be a later hand on the comet of 1368: 'A nativitate Christi 1368, die 8 vel circa Martii, apparuit in occidente una prope Martem, g<radu> 10 vel circa et duravit ultra 8 dies... Item circa primum mensis Aprilis... apparuit una alia stella comata maiora... eiusdem mensis XXV die imperator Karolus intravit Paduam... in magna concordia cum pappo Urbano V qui Romam intraverat 16 die Octobris 1367...'
- 351r–368v '<D>icit Pthol<omeu>s: Iam scripsi tibi, Iesure, de hoc quod operantur stelle in hoc seculo... Verbum primum. Sciencia stellarum ex te et illis... Quod dixit Pthol<omeu>s, ex te et illis, significat quod qui res futuras prenoscere — Et ego Deum deprecor ut te diligat. Perfecta est huius libri translatio 17 die mensis Martii, 12 die mensis Gumedi secundi anno Arabum 520' [added in the margin by the scribe: 'Explicit...', followed by several illegible words].
= **Abuifar Hamet filius Joseph, <Commentum in Centiloquium>, tr. Plato of Tivoli (C.3.1.1)**. The last two bifolia are in disorder and should be read f. 366–365–368–367. F. 351–352 (v. 1–10) consist of a bifolium copied

in a neat hand, while f. 353–368 (v. 10–100) are from another MS copied in a different, sloppier hand. A possible scenario is that the scribe of f. 351–352 intended to copy the whole text anew, but stopped in the middle of v. 10 and appended f. 353–368, which may have been his exemplar. The two introductory chapters on f. 350v were added by a later hand (see above). Glosses throughout by what seems to be yet a later hand (including notes on the comet of 1368 on f. 350v, see above).

Frankfurt/M, Stadt- und Universitätsbibliothek, Fragm. lat. VIII.32

s. XIV. **Prov.:** Frankfurt am Main, Dominican monastery.

Parchment, 1 f., fragment consisting of a page pasted down to the inner front cover of a printed book, so that only the verso of that folio can be read at present. A single hand, two columns, 47 lines, red initials.

Ptolemaica (single text).

Bibl. *Die Handschriften der Stadt- und Universitätsbibliothek Frankfurt am Main*, VI: G. Powitz, *Mittelalterliche Handschriftenfragmente der Stadt- und Universitätsbibliothek Frankfurt am Main*, Frankfurt am Main, 1994, 112.

1va–1vb ‘... considerat rem secundum materiam suam qui non pervenit ad eius certam cognitionem... Quod dicit Ptho<lome>us, “ex te et illis”, significat quod qui res futuras scire desiderat... (1vb) Verbum secundum. Phylosophus: Quando eliget vel inquit elector melius non erit inter ipsum — (Verbum quartum) prope circulum Lune inferius fiunt. Et hec omnia nominavit Aratus in...’
= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**, fragment from the second sentence of v. 1 up to the middle of the commentary of v. 4. No glosses.

Frankfurt/M, Stadt- und Universitätsbibliothek, Praed. 48

s. XV¹ (f. 1–91 copied in 1440). **Or.:** Augsburg (cf. f. 75ra: ‘Explicit chirurgia... finita anno domini 1440 in Augusta XVI die mensis Novembris’ and f. 91ra: ‘Finitus est liber synonymorum Dei adiutorio sine quo nichil est inchoatum nichil terminabile, anno domini 1440 in Augusta in die beate Cecilie’), copied by Siegfried Enemer (see Powitz). **Prov.:** Georg von Breidenbach, who bequeathed the MS to the Dominican monastery in Frankfurt am Main in 1491 (f. Ir: ‘Ut numquam alienetur datus est predicatoribus Franckfordie 1491 per Ieorium Breitenbach scabinum’).

Paper, I + 151 f., a single hand, decorated initials.

Medicine, astrology, astronomy and natural philosophy: Lanfranc of Milan, *Chirurgia maior* (1ra–75ra); *Liber synonymorum* (76ra–91ra); Alcabitus, *Introductorius* (95ra–112vb); Hermes, *Centiloquium* (112vb–115ra); **Ptolemaica** (115rb–125va); Bethen, *Centiloquium*,

chs 1–57 (125va–126vb); *Capitula Almansoris* (127ra–130rb); *Theorica planetarum Gerardi* (131ra–135va); Pseudo-Albertus Magnus, *Liber aggregationis* (136ra–140vb); medical recipes (141ra–141rb). Blank: Iv, 75v, 91v–94v, 130v, 141v–151v.

Bibl. *Die Handschriften der Stadt- und Universitätsbibliothek Frankfurt am Main*, I: G. Powitz, *Die Handschriften des Dominikanerklosters und des Leonhardstifts in Frankfurt am Main*, Frankfurt/Main, 1968, 116–18; *Datierte Handschriften in Bibliotheken der Bundesrepublik Deutschland*, I: G. Powitz, *Die datierten Handschriften der Stadt- und Universitätsbibliothek Frankfurt am Main*, Stuttgart, 1984, 64–65; Lemay 1999, I, 247.

115rb–125va ‘Verbum secundum. Dixit Ptholomeus: Quando eliget electionem melioribus non erit inter ipsum et eum qui habet hoc ex natura differentia. Multi homines putaverunt quod Ptholomeus — et ego Deum precor ut te diligat. Perfectum est huius libri translatio 17 die mensis Martii, 12 die mensis Gumedii ei secundi anno Arabum 520. Explicit Centiloquium Ptholomei.’
= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. Plato of Tivoli (C.3.1.1)**, without v. 1 (but with blank space for it on f. 115ra, where a note in small script in the margin reads: ‘Centum verba Ptho<lomei> cum glosa’). No glosses.

Ghent, Universiteitsbibliotheek, 5 (416)

s. XV² (copied after 8 December 1471, cf. f. 214v, and no later than 1479, or perhaps 1473). **Or.:** Low Countries, probably Bruges, cf. also tables for latitude 51° f. 108v. MS prepared for Raphael de Mercatellis, abbot of St Bavon of Ghent, in 1479 (cf. arms f. 4r and 184r, and note on the inner back cover: ‘Hoc volumen comparavit Raphael de Marcatellis, Dei gratia episcopus Rosensis, abbas Sancti Bavonis iuxta Gandavum, anno domini 1479’) or perhaps as early as 1473 (see Derolez, *The Library*, 56, and ‘Two notes’, 185 n. 2).

Parchment, I + 215 f., several similar neat hands, deluxe MS with painted initials at the beginning of each section and numerous decorated initials.

Astrology and natural philosophy: table of contents (Iv); Hermes, *Centiloquium* (1r–3r); **Ptolemaica** (4r–21r, 21r–21v and 22r–24r); Thebit Bencora, *De imaginibus* (24r–26v); **Ptolemaica** (27r–41v); *Capitula Almansoris* (42r–45v); Bethen, *Centiloquium* (46r–48r); Pseudo-Albertus Magnus, *Speculum astronomie* (48r–56r); Messahallah, *Epistola de rebus eclipsium* (56r–58r); Sem filius Haym, *Capitulum in narratione Saturni quid accadat in mundo* (58r–59v); *Liber de causis* (59v–65r); Zael, *Quinquaginta precepta* (65r–67v); Pseudo-Aristotle, *De physiognomoniam libellus* (67v–71r); horoscope: ‘Figura originis mundi secundum Albumasarem in Introductorio suo magno’ (72v); Albumasar, *Flores* (73r–84v); Abraham Avenezra, *De questionibus*, tr. Arnoul de Quinquempoix (84v–91v), with appendix ‘Glosa super sextam domum de questionibus. Videas fortitudinem planetarum...’ (91v); Abraham Avenezra, *De electionibus*, tr. Arnoul de Quinquempoix (91v–96r); Abraham Avenezra, *Tractatus particulares*, tr. Arnoul de Quinquempoix (96v–103r); Gergis, *De significatione septem planetarum in domibus* (103v–105v); Alkindi (?), *Saturnus in Ariete sub radiis...* (105v–107r); Hermes/Enoch, *Liber imaginum signorum* (107r–108r); table of unequal hours

for latitude 51° (108v); Venantius of Moerbeke, *Liber de presagiis futurorum* (109r–124v); William of Aragon, *De pronosticatione sompniorum libellus* (125r–132r); Pseudo-Aristotle, *De signis* (132v–135v); Albumasar, *Flores de electionibus* (136ra–140vb); ascension tables with canons (141r–144r); ‘Incipit liber Zydrac de nativitatibus. In nomine domini nostri Ihesu Christi incipit libellus ostendens inclinationes et conditiones hominum a signo vite ut ab ascendente nativitatibus...’ (145r–152v); table: elections from the aspects of the Moon with the other planets (153ra–154rb); *Astronomia Ypocratis* (154v–157v); ‘Prenostica Merlini. Lunaque prima qui decubuerit, si tertia die alleviatur, sanus erit...’ (157v–158v); David of Dinant, *Quaternuli* (158v–183r); *Kyranides* (184r–212r); ‘Tractatus Roberti de principiis rerum. Oportet arbitrandum naturalem principia...’ (212r–214r); table: ‘Tabula ostendens moram nati in utero per gradum Lune secundum trutinam Hermetis’, with example of rectification for a girl born on 8 December 1471 (214v–215r); table: ‘Tabula ostendens numerum dierum correspondentem cuilibet mensi...’ (215v). Blank: Ir, 3v, 71v–72r, 144v, 183v.

Bibl. J. de Saint-Genois, *Catalogue méthodique et raisonné des manuscrits de la Bibliothèque de la ville et de l’université de Gand*, Gent, 1849–1852, 295–97 (no. 416); *ALC*, I.1, 319–21 (no. 176); A. Derolez, *Inventaris van de handschriften in de Universiteitsbibliotheek te Gent*, Gent, 1977, 1; Zambelli/Caroti 1977, 135–37; A. Derolez, *The Library of Raphael de Marcatellis, Abbot of St Bavon’s, Ghent, 1437–1508*, Gent, 1979, 54–58; Kristeller 1963–1992, III, 127; Lemay 1999, I, 247–48 and 342–44; Paravicini Bagliani 2001, 24–25; A. Derolez, ‘Two notes on Mercatel’s Earliest Astrological Manuscripts’, in *Tributes in Honor of James H. Marrow. Studies in Painting and Manuscript Illumination of the Late Middle Ages and Northern Renaissance*, eds J. F. Hamburger, A. S. Korteweg, London-Turnhout, 2006, 185–88; A. Derolez, *Medieval Manuscripts. Ghent University Library*, Gent, 2017, 20.

4r–21r ‘Incipit Centilogium Ptholomei cum commento Hali translatum ex Greco in Latinum. Mundanorum ad hoc et ad illud mutatio celestium corporum... Scientia namque astrorum ex te et illis est... Quod autem dixit Ptho<lome>us, ex te et illis est, significat quod qui res futuras prenosceret... (12r) Dixerunt Ptho<lome>us et Hermes quod Lune locus in hora qua... et hoc expertus fuit multociens — et ego Deum deprecor ut te dirigat. Explicit Centilogium Ptholomei cum commento Haly.’

= **Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), ‘Mundanorum’ version (C.3.1.3)**, mixed with Plato of Tivoli’s translation (C.3.1.1) and also with the ‘Iam premisi’ version (C.3.1.4), although irregularly and often in a confused manner. To give but one example, v. 97–98 (f. 20v, *verba* are not numbered) in ‘Mundanorum’ are followed by v. 97 in ‘Iam premisi’ and, in smaller script (as if a comm. on the former), by v. 98 in Plato, both the proposition and the commentary. Overall, the ‘Mundanorum’ version (given in either ‘Mundanorum 1’ or ‘Mundanorum 2’, or both) prevails. Plato’s translation first occurs in v. 10 (f. 6r), as an addition to ‘Mundanorum’: ‘Aliud. Et ideo excitavit nos Ptholomeus ut operaremur...’. The text includes Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) after the commentary on v. 51 (given in ‘Mundanorum’) on f. 12r. No glosses.

- 12r 'Dixerunt Ptho<lome>us et Hermes quod Lune locus in hora qua — et hoc expertus fuit multociens.'
= **Pseudo-Ptolemy's *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, inserted into v. 51 of the *Centiloquium* above.
- 21r–21v 'Ptholomeus dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.
- 22r–24r 'Incipit opus de ymaginibus Ptholomei super facies signorum. Opus ymaginum Ptholomei et est omnibus modis propior et verior in probatione quoniam eius effectus constitutus est super facies duodecim signorum 12. Dixit Alburabeth Benfelix quia omnes orientales operabantur per has ymagine — et impetrabis a Deo quod animus tuus desiderat. Explicit iber de y<maginibus> Ptholomei super facies signorum.'
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**. No glosses.
- 27r–41v 'Incipiunt 100 verba Ptholomei. Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Sciencia stellarum ex te et ex illis... Cum dixit Ptho<lome>us, ex te et ex illis, significat quod qui res futuras prenoscere — et ego Deum precor ut te dirigat. Perfecta est huius libri translatio. Expliciunt 100 verba Ptholomei cum Centilogium (!).'
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. No glosses.

Ghent, Universiteitsbibliotheek, 345 (386)

s. XVII (after 1608).

Paper, 173 pp., a single hand.

Ptolemaica (single text). Blank: 19–32, 154–156, 172–173.

Bibl. J. de Saint-Genois, *Catalogue méthodique et raisonné des manuscrits de la Bibliothèque de la ville et de l'université de Gand*, Gent, 1849–1852, 288 (no. 386); A. Derolez, *Inventaris van de handschriften in de Universiteitsbibliotheek te Gent*, Gent, 1977, 30; Kristeller 1963–1992, III, 128, and VI, 449.

- 1–171 'De annui temporis mensura in directionibus ex commentariis Valentini Naibodae mathematici eruditissimi super caput decimum Apotelesmatici tertii Claudii Ptolemaei. Hiis adiicio quaestionem circa quam multos doctos haesitasse cognovi, neminem vero qui quidquam in ea determinare voluerit — arcum huiusce directionis gra<dus> 27.9'.8" sicut prius. Finis.'
= **Giovanni Antonio Magini, *De annui temporis mensura in directionibus et de directionibus ipsis ex Valentini Naibodae scriptis* (C.2.38)**. III.10, 1–18 (pp. 19–32 are blank); III.11, 33–171. No glosses.

Ghent, Universiteitsbibliotheek, 1021A

s. XVI (second half acc. Derolez). **Or.:** Low Countries (Ghent?), copied by one Cornelius Bryntius, who left his name on f. 12v of MS 1021B ('Cornelius Bryntius scribebat'). **Prov.:** Antonius de Grave or Gravius (cf. his name on the first page of MS 1021B), probably the Antonius de Grave who published astrological prognostications in Dutch in Deventer in the 1620s (cf. *Prognosticon astrologicum et philosophicum, dat is practica ofte astrologisch discours, over dat wonderbaerlijck iaer... MDCXXXIII* and *Prognosticon astrologicum ofte astrologische discours... MDCXXXVII*). Derolez, 'Deux manuscrits', 307, wrongly identified Antonius de Grave as the scribe of the MS. The MS was discovered in 1835 in a chimney of the Hospice des Aliénées in Ghent, together with remains of instruments used by the magician (cf. note on the inner back cover of MS 1021B: 'en mars 1835, à la démolition d'une ancienne cheminée à l'Hospice des Aliénées à Gand, avec quelques débris d'instruments dont se servait le magicien'). The MS, which was badly damaged, was transferred to the library of the University of Ghent in 1885, where it was restored and divided into two volumes (1021A and 1021B).

Paper, 148 f. (MS 1021A, modern foliation in pencil), a single sloppy hand. At least several folia are missing in the beginning. The upper part of f. 1–44 is illegible due to water damage (up to 60% in the first folia and decreasingly thereafter, something which has affected in particular the first Ptolemaic section on f. 1–4). Some of the damaged texts can be identified by comparison with MS →St Petersburg, BAN, Q. 537.

Astral magic, mostly rare or unidentified texts: **Ptolemaica (1r–4v)**; Thebit Bencora, *De imaginibus*, variant version as in St Petersburg, BAN, Q. 537, f. 25r–38r (5r–14r); Hermes, *De imaginibus et horis* (14v–19v); *Liber Baleni de compositione imaginum septem planetarum*, as in St Petersburg, BAN, Q. 537, f. 66r–84r (20r–31v); **Ptolemaica (32r–37v)**; 'Arnoldi de Villa Nova mathematici et in magicis operationibus expertissimi liber signorum duodecim signorum zodiaci. Antiquorum solertia celum...' (38r–43r); 'Balenis philosophi qui et sapiens dicitur liber de sigillis planetarum. Prefatio. Quoniam necessarium est volentibus in compositione imaginum...' (43v–59r); 'Behencatri viri sapientis et regis in India qui fuit in magicis expertissimus de sigillis planetarum. Sigillum Saturni. Saturnus habet in metallis plumbum...' (59v–62r); 'Bayelis sapientis in magicis expertissimi liber de annulis septem planetarum. Prefatio auctoris. Septem sunt stelle errantes quos planetas vocamus...' (62v–67r); 'Geberi magi et philosophi expertissimi de figuris septem planetarum per numeros in quibus occulta sunt semtem (!) nomina Dei. Prefatio. Antiqui sapientes et philosophi in astronomia...' (67v–78v); 'Hermetis philosophi de compositionibus imaginum secundum duodecim horas diei et noctis, qui liber alio nomine vocatur Secretum Hermetis. Hermes iste fuit de genere et secta Iudeorum, qui et Samonum vocatur...' (79r–97v); Pseudo-Pietro d'Abano, *Annulorum experimenta* (98r–107r); 'Bonum et notabile documentum super operationibus experimentorum traditum a Ptolomeo cum cautela in huiusmodi operationibus observanda. Si quis aliquod experimentum probare voluerit, oportet ipsum custodire Lunam, tempus et horam et partes hore...' (107v–121r); 'De sacrificiis septem planetarum. Quum in mandatis generalibus huius artis...' (121v–125v); 'Experimenta varia provocationis amoris et gratie ex diversis collecta. Principio in operationibus istorum experimentorum provocationis amoris et gratie...' (126r–129v); Pseudo-Pietro d'Abano, *Elucidarius magice* (130r–139v); 'Diversa experimenta ex diversis collecta. Ut medicus vel phisicus multum lucretur. Facias in argento

vel stanno imaginem hominis sedentis in cathedra...' (140r–148r). Blank: 148v. MS 1021B (72 f.) contains the *Clavicula Salomonis* (2r–53r) and other magical texts in Latin and Dutch.

Bibl. A. Derolez, *Inventaris van de handschriften in de Universiteitsbibliotheek te Gent*, Gent, 1977, 83; Kristeller 1963–1992, VI, 450; W. L. Braekman, *Middeleeuwse witte en zwarte magie in het Nederlands taalgebiet*, Gent, 1997, 30 and 503–07; J. Véronèse, 'Pietro d'Abano magicien à la Renaissance: le cas de l'*Elucidarius magice* (ou *Lucidarium artis nigromantice*)', in *Médecine, astrologie et magie entre Moyen Âge et Renaissance: autour de Pietro d'Abano*, eds J.-P. Boudet, F. Collard, N. Weill-Parot, Firenze, 2013, 295–330: 303–05; A. Derolez, 'Deux manuscrits de magie astrologique à la Bibliothèque de l'Université de Gand', *Scriptorium* 73 (2019), 307–11; C. Burnett, 'Thābit ibn Qurra's *On Talismans* Between the Middle Ages and the Renaissance, and Between the Science of the Stars and Magic', *BC* 27 (2021), 23–50: 35–37.

1r–4v '... Si volueris fecundum reddere virum sive mulierem... (1v) Ad fugandum ursos, lupos, porcos, cervos et alia feras sylvestres de aliquo nemore — et habebit horribilia somnia, quod saepius probavi.'

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, reworking entitled 'libellus Ptolemaei, inter magos expertissimi, de compositione imaginum ad operationem mirabilium effectum' in MS ↗St Petersburg, BAN, Q. 537. End only due to missing folia. The first legible sentence corresponds to the first sentence of the chapter 'Ut vir sive mulier sterilis multos filios deinceps faciat' in the St Petersburg MS, f. 51r. All four folia are severely damaged. No glosses.

32r–37v '... [title illegible]. Praefatio. Incipiamus tractare de compositione imaginum sigillorum et annulorum — ex argento vel ex mastice. Et sunt qui dicant tam auferre aut mitigare crudelitatem, et est operatio eius in naturalibus effectibus valde mirabilis.'

= **Pseudo-Ptolemy, *Liber de impressionibus imaginum, anulorum et sigillorum secundum facies duodecim signorum zodiaci* (B.16)**. The top 4 to 8 lines of each page are damaged and partly or wholly illegible. No glosses.

Glasgow, University Library, Hunterian Museum 461

s. XIV^{ex}–XVⁱⁿ (1384 for f. 38r–64v; 1412 for f. 72r–114r; the year 1411 mentioned f. 1v). **Or.:** f. 38r–64v copied in Rouen by one Robertus Nobillart (f. 64v: '...translata et finita anno dominice incarnationis 1384^o mensis autem Aprilis die 16^a per Robertum Nobillart tunc temporis Rothomagi [Rouen] residentem pro cuius anima si placeat vobis...'); f. 72–115 copied by Johannes de Moerbeke (f. 114r: 'Scriptus per Jo<hannem> de Moorbeke anno 1412^o, 26^a die Augusti. Quatinus (?) omnium creaturarum creator laudetur').

Paper, IV + 183 + IV^a f., several hands, one of which copied f. 11r–34r. Elements are missing between f. 10–11, 65–66, 71–72 and 107–108.

Astronomy, music, astrology, medicine, arithmetic and computus: astronomical notes (1v–2r); Jafar, *De pluviis et ventis* (3v–4r); *Liber novem iudicum*, excerpt 'Aomar: Ex

conventu itaque vel oppositione vel ex Solis...' (4r–6r); Albumasar, *Introductorium maius*, tr. John of Seville, VI.1: 'De ymaginibus ascendentibus in faciebus signorum...' (6r–8v); *Astronomia Ypocratis* (8v–10v); Thebit Bencora, *De recta imaginatione spere et circularum eius diversorum*, beginning gone (11r–11v); Thebit Bencora, *De quantitate stellarum et planetarum et portione terre* (11v–13r); Pseudo-Thebit Bencora, *De motu octave spere* (13v–16v); canons of astronomical tables 'Canon inventionis singnum (?). Cuiuslibet planete...' (17r–19v); *Theorica planetarum Gerardi* (20v–26v); 'Quia omnes homines naturaliter scire desiderant et maxime res supremas...' (27r–31r); **Ptolemaica (31v–34r)**; 'Brevis tractatus super Musicam Boetii...' (34v–37r); John of Murs, *Tractatus de proportionibus* 'Proportionum musicalium per venerande memorie magistrum...' (38r–42r); John of Murs, *Musica speculativa* (42v–64v), with representation of the monochord (65r); notes of music (65v); treatise of astrological medicine, whose beginning and end are gone (66r–71vb); Haly Embrani, *De electionibus horarum* (72r–101v); Guillelmus Anglicus, *De urina non visa* (102r–107v); Abraham Avenezra, *De luminaribus*, tr. Henry Bate of Mechelen (108r–114r); 'Notabilia utilia medicis. Primo notandum differentiam inter urinam...' (114v–115r); Johannes de Parma, *Practicella* (115v–117v); Hermes, *Liber de accidentibus* (118r–119v); *algorismus* 'Articulus (?) est decenarius et omnis constans ex denariis...' (120r–131r); notes of arithmetic 'Nota de progressionem...' (131v–133v); computus tables (134r–140r); notes of computus (140v–142v); 'Incipit compotus. Compotus iste dividitur in sex parte...' (142v–152v); 'Incipit secundus compotus. Ad inveniendum festa mobilia...' (152v–162v); 'Compotus est scientia considerans tempora...' (163r–182v); notes in English (182v); notes (183r–183v). Blank: 1r, 2v–3r (except for added astronomical notes f. 2v), 20r. F. Ir–IVv and Ir–IV^av contain a register of royal letters in a late-13th c. hand, perhaps of Edward I (see Young/Henderson Aitken, 384). Blank: 37v.

Bibl. J. Young, P. Henderson Aitken, *A Catalogue of the Manuscripts in the Library of the Hunterian Museum in the University of Glasgow*, Glasgow, 1908, 381–84; Meyer/Huglo 1992, 22–23; Moulinier-Brogi 2011, 204–05.

31v–34r 'Incipit Thebit de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — propinqui oppositioni erunt retrogradi. Explicit Thebit.'
 = **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Gloucester, Cathedral Library, 15

s. XVIⁱⁿ (at least partly copied in 1507, cf. f. 141vb: 'Et est finis laus altissimo 1507'). **Or.:** the scribe/author is perhaps 'Petrus de Rielat⁹' (?), whose name appears in the colophon f. 120vb (see below). **Prov.:** Henry Fowler, rector of Minchinhampton (c. 1618), who gave the MS to the Cathedral Library of Gloucester.

Paper, ^a15 + 11 + 168 + I f. (numbered — apparently by the author — 1–15, I–XI and 12–168 respectively; several folia are missing: f. ^a9–^a11, 32, 38, 47–49, 151–153 and 166–167, as well as at least one folio before f. ^a2), a single hand.

Astrologer's anthology made of texts, excerpts, paraphrased excerpts, compilations etc. based on a large number of authorities: table of contents (^a1r–^a1v); Leopold of Austria, *De astrorum scientia*, Book VI, beginning gone (^a2ra–^a3va); introduction to nativities (title faded) 'Cum omnis infans egreditur de utero materno et ingreditur aerem...' (^a3vb–^a6va); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, excerpts from Books II and III (^a6vb–^a8vb); astrometeorology 'Tractatus quidam de eclipsibus ... (?)'. A maioribus incipiendum est eo quod...' (^a12ra–^a15vb); compilation on the signs, planets and houses partly based on Alcabitius's *Introductorius*, I: 'Tractatus quidam de naturis signorum. Aries est signum colericum, calidum et siccum, masculinum, diurnum, orientale...' (Ira–12ra); **Ptolemaica (12rb–25va)**; Haly Abenragel, *De iudiciis astrorum*, excerpts from Book IV (25vb–27ra); Messahallah, *De nativitatibus*, anonymous tr., excerpts, end gone (27rb–31vb); 'De singulis planetis in domibus propriis et aliorum planetarum secundum Bonatum et Leupoldus et Haly' (33ra–35ra, beginning gone with missing f. 32, the title is given in the table of contents f. ^a1rb); Haly Abenragel, *De iudiciis astrorum*, excerpts from Books V and VII (35ra–37va); Abraham Avenezra, *Liber nativitatum et revolutionum earum*, tr. Pietro d'Abano (39va–43rb); 'Circa domum sextam de infirmitatibus corporis alicuius nati. Infirmitates et pestilentie corporis nati...' (43rb–43va); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, excerpts from Books IV and V (43va–44vb); Firmicus Maternus, *Mathesis*, excerpts from Books II–VII (45ra–95vb); Haly Abenragel, *De iudiciis astrorum*, excerpts from Books VI–VII (96ra–107ra); **Ptolemaica (107rb–120vb)**; two chapters 'Cum interrogatus fueris de peregrinatione utrum fit vel non et si non possit fieri...' (120vb–121rb); Bethen, *Centiloquium* (122ra–122vb); Abraham Avenezra, *Tractatus particulares*, tr. Pietro d'Abano, Book II (123ra–123vb); Alubater, *De nativitatibus*, excerpts (124ra–141vb); Albumasar, *Flores* (141vb–147vb); 'Cum recedente anno perambulaverit Sol totum circulum...' (147vb–148rb); 'Significatorum autem predictorum quidam sunt significatores corporis nati et quidam sunt significatores anime seu spiritus nati. Sunt autem significatores corporis secundum Albu<masar?>...' (148rb–150rb); Gergis, *De significatione septem planetarum in domibus*, attr. Abraham Avenezra (154ra–154vb); Pseudo-John of Seville, *Epitome totius astrologie*, Books II–IV (155ra–161va); *Capitula Almansoris* (161va–162vb); Alkindi (?), *Saturnus in Ariete sub radiis...* (162vb–163ra); Hermann of Carinthia, *Liber imbrium* (163rb–164ra); Hermes, *Liber de stellis beibeniis* (164ra–165rb); Hermes, *Centiloquium*, beginning only (165va); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, excerpts from Book VIII (165vb–168va). Blank: 39r, 121v (except for the note 'Bethen est brevis sed arridus libellus'), 150v.

Bibl. S. M. Eward, *A Catalogue of Gloucester Cathedral Library*, Gloucester, 1972, 7; Monfasani 1984, 21; Kristeller 1963–1992, IV, 33; Lemay 1999, I, 412.

12rb–25va 'Compilatio libri iudicialis Ptholomei in nativitatibus secundum ordinem domorum procedens... Expedita autem theorica nativitatum secundum canones Alchabitii vel alterius introductoris... Ait itaque Ptholomeus tractato tertio, capitulo nono: Quando aliquod luminarium fuerit in aliquo angulorum figure precise — similiter si dominus prime domus radices nativitatis fuerit in decima revolutionis, idem iudicabis ...us (?) vide in parte et capitulo eiusdem ... (?)'.

= *Compilatio libri iudicialis Ptholomei in nativitatibus secundum ordinem domorum* (C.2.14). Marginal notes by the scribe.

107rb–120vb ‘Incipit Centiloquium Ptholomei cum commento Georgii Trapezuntii. Verbum 1. Scientia stellarum ex te et ex illis est, non est enim possibile ut huius scientie professor particulares rerum ydeas, id est formas prevideat... Commentum. Ex te, inquit, id est ex quadam vi (?) insita anime et ingenio vel ex tua naturali induffa (?), et ex illis, id est a scientia nature per diversitatem motuum earum precognitio fit et horum utrumque ipse rationes ostendit — ut sicut raro apparent, sic et inconsueta significare videantur. Et in hoc completur opus commentariorum Georgii Trapezuntii astrologi profecto celeberrimi (?) in librum centum amporismorum Claudii Ptholomei e Graeco in Latinum per dictum Georgium traductorem. Que quidem commentaria dispersa diffusaque inveniens, ego Petrus de Rielat⁹ (?) in unum secundum ordinem una cum ipsis Ptholomei amporismis volumen redegei. Unde benedictus et laudatus sit qui regnat in secula seculorum. Amen.’

= **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**, without the prefaces and with text and commentary in alternating sequence. The commentary has been reworked and expanded, sometimes considerably. Plato of Tivoli’s translation (C.3.1.1) has also been used in the opening words of v. 1 and replaces George of Trebizond’s text for the proposition of v. 2. From v. 3 onwards, all propositions are given in both George’s and Plato’s versions, the latter being introduced by ‘Ara<bicus>’. Marginal notes by the scribe.

Göttingen, Niedersächsische Staats- und Universitätsbibliothek, Philos. 62c

s. XV² (in or after 1451 for f. 214r–214v; in or after 1454 for f. 1r–64r). **Or.:** probably the University of Cologne, cf. f. 214r–214v. Gerardus Hoefmans’s tables were also completed in Cologne in 1454 (cf. f. 64r: ‘Et sic est finis tabularum resolutarum facilimarum de veris ac mediis motibus planetarum in studio Colon<iensis> per magistrum arcium et medicine doctoris Gerardi Hoefmans de Hamont scriptarum et finitorum (!) anno domini 1454 incomplete...’) and Johannes de Wesalia (f. 224r–235v) had studied medicine in Cologne before 1427.

Paper, 235 f., several hands, one of which copied f. 200r–213v and 216r–223r.

Astronomy and astrology: Gerardus Hoefmans de Hamont, *Tabule de mediis motibus planetarum super meridianum Pragensem* (1r–64r), with canons ‘Motum augium et stellarum fixarum, motum accessus et recessus...’ (66ra–72vb); ascension tables (73r–74v); Ptolemy, *Geographia*, Books II–III (81ra–96ra); Alfonsine star catalogue (97r–115r); ‘Compositio novi kalendarii de motu inequali. Adest intellectus et canon tabule introituum Solis in duodecim signis...’ (116r–119va); John of Eschenden, *Summa iudicialis de accidentibus mundi* (128r–198r); ‘Amphorismi astronomici. Radix revolutionis et iudicii anni est coniunctio luminarium...’ (200r–209v); Johannes Ganivetius, *Celi enarrant gloriam Dei...*, excerpts ‘Celi enarrant gloriam Dei. Triplici via et modo mirabili...’ (210r–210v); four horoscopes concerning a nativity of

31 October 1402 (212r–213v), including the revolution of that nativity for 1433 (212v); prognostication for 1451 for Cologne (214r–214v); three chapters ‘De radice navis. Prima radix iudicii navis... Pro uxore ducenda... De thesauro abscondito...’ (216r–217v); Alcabitius, *Introductorius*, excerpt from Book V (218r–220r); ‘De partibus iudicandi. Nota quod quelibet pars extrahitur ex duobus significatoribus...’ (220v); **Ptolemaica (221r–222v)**; Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre*, excerpt (222v); Johannes Ganivetius, *Celi enarrant gloriam Dei...*, excerpt ‘Quantus erit error astrologi...’ (223r); list of some 25 astrological books with their incipit ‘Liber introductorius Abraham Avenhere qui dicitur Principium sapientie, incipit Cum initium sapientie timor...’ (223r–223v); scattered astronomical notes (223v); Johannes de Wesalia, prognostication for 1433 (224r–235v). Blank: 64v–65v, 75–80, 96v, 115v, 120–127, 198v–199v, 211, 215.

Bibl. I. Fischer, *Die Handschriften der Niedersächsischen Staats- und Universitätsbibliothek Göttingen: Neuzugänge 1894–1966*, Wiesbaden, 1968, 33–37.

221r–222v ‘De farmaciis [title in red in the margin]. Propositio [in the margin]. Verbum 19. Luna cum Iove existente si quis purgatorium acceperit, abbreviabitur eius opus et effectus ipsius minuetur. Co<mmmentum> Hali [in the margin]. Effectus medicine non est naturalis corpori — non ergo mireris si fuerit signum in facie.’
= **Abuiafar Hamet filius Joseph, <Commentum in Centiloquium>, tr. Plato of Tivoli (C.3.1.1)**, v. 19–21, 42, 12, 44–45, 57, 60, 5, 64, 98, 56, 54, 36, 69 and 74 (proposition and commentary). The text is sometimes summarised, paraphrased or interpolated. A longer note between v. 36 and 69 (f. 222r) gives the incipit of ten astrological works. No glosses, but a few marginal notes, mainly the titles.

Göttweig, Stiftsbibliothek, 379

s. XVI.

Paper, 340 f., two hands (f. 4–250v and 250v–338v).

Ptolemaica (single text). Blank: 1–3, 339–340.

Bibl. Kristeller 1963–1992, III, 15 (no. 444); Monfasani 1984, 21–22.

4r–338v ‘Georgii Trapezuntii ad libros Magnae Ptholomei compositionis introductio. Capitulum primum de divisione omnis circuli et precipue zodiaci. <Q>uoniam libros Ptholomei de motibus celestium, quibus nescio an quicquam altius ac rationis et scientie via certius inveniri aut fingi possit ex Greca lingua in Latinam vertimus... (21r) Expositio Magne compositionis Ptholomei a Georgio Trapezunda facta incipit. <C>oditis huius quem exposituri gratia salvatoris sumus volumina librique XIII sunt, in quibus Ptholomeus intendit erratarum stellarum et fixarum motus invenire — (337r) maius inter observationes temporis spatium exigit quam vita hominis sit’ (followed by diagrams and notes).

= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.1.19)**. Introduction, 4r–21r; Book I, 21r–55v; II, 56r–94v; III, 95r–114r; IV, 114r–130v; V, 130v–167v; VI, 167v–204r; VII, 204r–206v; VIII, 206v–214r; IX, 214r–245r; X, 245r–259r; XI, 259r–272v; XII, 272v–292v; XIII, 292v–337r; diagrams and notes, 337r–338v. No glosses.

Hannover, Niedersächsische Landesbibliothek, IV 394

s. XII. **Or.:** according to Pingree, the Ptolemaic section was copied on MS $\rightarrow$ Paris, BnF, lat. 14754, from France. **Prov.:** monastery of Marienrode, near Hildesheim (f. 1r: 'Liber Novalis sancte Marie quem contulit magister Bruno' and 'Liber Novalis sancte Marie Virginis', 14th-c. hand).

Parchment, I + 83 f., two hands (I: f. 1–38 and 69–83; II: f. 39–68).

Astronomy, astrology: 'Naturalis ratio duodecim signorum, et primum de Ariete. Regionem itaque zodiaci...' (1r–4r); *Opusculum de ratione spere* (4r–38v); **Ptolemaica (39r–53v and 54v–63v)**; *Tabula fortune* (54r); 'Si vis cum astrolabio lucente Sole horas diei invenire...' (64r); *De utilitatibus astrolabii*, chs 1–2 (64r–66v); *De mensura astrolabii* (66v–68v); Hyginus, *De astronomia*, incomplete and with additions (69r–80r); *Excerptum de astrologia Arati* (80v–82r); 'Unciarum divisionem nosse que non minus temporibus...' (82r–82v); 'Libra vel as ex unciolis constat duodenis...' (82v–83r). Blank: 83v.

Bibl. H. Härtel, F. Ekowski, *Handschriften der Niedersächsischen Landesbibliothek Hannover*, II: *Ms I 176a – Ms Noviss. 64*, Wiesbaden, 1982, 132–35; Pingree 1997, 14–15.

39r–53v 'Intellectus climatum poli sepiissime requires si inveneris platos civitatis —
and 54v–63v (53v) requires superiorem et inferiorem et addes aut deduces' (followed by
the tables f. 54v–63v).
= **Preceptum canonis Ptolomei (A.7.1)**. No glosses.

Innsbruck, Bibliothek des Tiroler Landesmuseums Ferdinandeum, W. 3277

s. XV² (f. 98–155 copied in 1471, cf. colophon; f. 11–97 and 160–70 copied in or after 1472). **Or.:** northern Italy. **Prov.:** 'aus der Bibliothek des Grafen [Karl] Mohr' (Sandbichler/Sandbichler).

Paper, 170 f. (sporadic modern foliation in pencil), three neat hands (I: f. 2–6; II: f. 11–97 and 160–170; III: f. 98–155).

Astronomy and astrology: 'Incipit compositio torqueti. Si quis vult componere torquetum, accipiat varias...' (2r–6v); John of Saxony, comm. on Alcabitus's *Introductorius* (11ra–44vb); Giovanni Bianchini, *Canones tabularum de primo mobili* (47ra–64vb); Girolamo Manfredi, judgement on the comet of 1472 (65ra–69vb); text on nativities 'Quando mutationem pueri habueris et quantitatem vite invenire volueris quere hyleg...' (71ra–97r); **Ptolemaica (98ra–134va)**; Nicolaus de Comitibus, astrometeorology 'Astrorum sapientes de pluviis necnon de ceteris similibus aeris alterationibus...' (136ra–155va); Cato Angelus Supinas de

Benevento, judgement on the comet of 1472 (160ra–170ra). Blank: 1, 7–10, 45–46, 70, 97v, 135, 156–159, 170v.

Bibl. B. Sandbichler, H. P. Sandbichler, *Handschriftenkatalog des Museum Ferdinandeum: Die codices des Tiroler Landesmuseums Ferdinandeum bis 1600* [unpublished printed catalogue, 1996–1999], 223–26.

98ra–134va ‘Inter utiliores vias quas in editionibus viderim sapientum de astrorum doctrinantium in fluxibus processus quem gloriosus iste astronomorum signifer Ptholomeus Soludianus in libro quatuor partium ordinavit... Que (!) sunt species ad pronosticandum completum requisite secundum quod duobus modis — ad varietatem coloris prout sepe antea dictum est. Et hec sunt in summa sententie domini Ptholomei de rebus et accidentibus universalibus ex secundo libro eius collecte etc. Finit liber iste feliciter sub salutis anno 1471 concurrente 5 die Novembris, quo in mense Lune eclipsis speratur, videlicet 27 die completo, hora 5, minuto 26, et hee hore et more Itolorum computantur. Laus Deo clementissimo.’
= *Commentum Cracoviense in Quadripartitum a. 1463* (C.2.8), without the appendix. Preface, 98ra; Book I, 98ra–113va; II, 113va–134va. f. 8-101, 105, 103-104, 102, 106-134. No glosses.

Jena, Thüringer Universitäts- und Landesbibliothek, El. f. 67

s. XIV. **Prov.:** monastery of Zerbst in Saxony (f. 141v: ‘Est autem liber iste fratrum minorum in Cervist’, late medieval hand); Johann Friedrich I, Elector of Saxony (1532–1554), in 1538 (inner front cover: ‘Anno MDXXXVIII. Hunc codicem donavit illustrissimo principi, duci Saxoniae, electori Iohanni Friderico senatus Cervestensis’).

Parchment, 141 f., several similar hands, one of which copied f. 84–139, decorated initials.

Mathematics, optics and astronomy: table of contents, 16th c. (inner front cover); Euclid, *Elementa*, ed. Campanus of Novara (1r–73v); Euclid, *De visu* (73v–79r); Euclid, *De speculis* (79r–82r); *De quadratura circuli per lunulas* (82v–83v); Alfraganus, *De scientia astrorum*, tr. John of Seville (84r–92v); *Ptolemaica* (93r–139r); comm. on Boethius’s *De consolazione Philosophiae*, fragment (141ra–141rb); table of contents, 14th or 15th c. (141v). Blank: 139v–140v.

Bibl. B. Tönnies, *Die Handschriften der Thüringer Universitäts- und Landesbibliothek Jena, I: Die mittelalterlichen lateinischen Handschriften der Electoralis-Gruppe*, Wiesbaden, 2002, 172–73.

93r–139r ‘Scientia habet species quarum melior post scientiam — sunt digniores ut evanescant et destruantur. Completa est eius declaratio. Completus est tractatus nonus et est ultimus libri philosophi Geber.’
= *Geber, Liber super Almagesti* (C.1.2). Preface, 93r–93v; I, 93v–99r; II, 99r–105r; III, 105r–107r; IV, 107v–112v; V, 112v–119v; VI, 120r–126r; VII, 126r–133r; VIII, 133r–135v; IX, 135v–139r. No glosses.

Jena, Thüringer Universitäts- und Landesbibliothek, El. f. 70

s. XVIⁱⁿ (c. 1520–1521). **Or.:** copied by Johann Volmar (d. 1536) at the University of Wittenberg. **Prov.:** Volmar bequeathed his MSS to Johann Friedrich I, Elector of Saxony (1532–1554), in 1536.

Paper, 237 f., a single hand.

Astrology: table of contents, added (1r); six horoscopes around the nativity and coronation of Emperor Charles V and the foundation of the University of Wittenberg (2v–3v); Albertus de Brudzewo, judgement on a nativity of 6 April 1445 (4r–14r); Albertus de Brudzewo, judgement on the great conjunction of 1484 (14r–18v); Albertus de Brudzewo, judgement on the solar eclipse of 1487 (18v–26v); judgement on the nativity of Matthias Corvinus (26v–28v); ‘De elevatione planetarum unius super alium. Secundum dictum Abrahe Aversare in tractatu suo de diebus creticis...’ (28v–29r); Albertus de Brudzewo, prognostication for 1487 (29r–47v); **Ptolemaica (47v–48r)**; ‘Ptholomeus secundo Quadripartiti: In applicatione duorum trigonorum ad angulos mundi...’ (48v, 21 lines); astrometeorology ‘Modus iudicandi de bono et malo in anno secundum antiquorum traditionem...’ (48v–51r); Johannes de Glogovia, *Tractatus de cometis* (51r–61r); ‘Quantum apud astrorum sapientes colligi potest, cometarum apparentium in aere novem sunt genera...’ (61r–62r); Johannes de Glogovia, judgement on the comet of 1472 (62r–65v); ‘Sequuntur regule de ventis. Prima. Iaculatio stellarum ab uno angulorum ventos ab illa parte significat...’ (66r–67r); ‘Generale iudicium aeris de mutatione. Primo videatur coniunctiones et oppositiones alicuius mensis...’ (67r–69r); Valentinus de Zator, *Experimenta astrologica* (69r–73v); ‘Sequuntur experimenta vulgata. Ventus occidentalis generaliter pluvie est inductivus...’ (73v–74r); notes on the 12 signs (74v); ‘Considerationes Guidonis Bonati in medicis quibuscumque. In vomitu provocando sit Luna in Ariete...’ (75r–77v); horoscopes, with notes and tables, for the years 1521–1526 (78r–133v); astronomical tables (184r–197r), with canons and further astronomical notes (197r–206r); horoscopes, with notes and tables, for the years 1519, 1518 and 1520 (216r–234r); horoscope for 1455 (235r); horoscope for 1521 (236r); notes (237r–237v). Blank: 1v, 134–183, 206v–215v, 234v (except for a short note), 235v, 236v.

Bibl. Rosińska 1984, 552 (index); Markowski 1990, 290; B. Tönnies, *Die Handschriften der Thüringer Universitäts- und Landesbibliothek Jena*, I: *Die mittelalterlichen lateinischen Handschriften der Electoralis-Gruppe*, Wiesbaden, 2002, 176–85.

47v–48r ‘Nature particulares signorum et facierum earum quas ponit Pto<lomeus> secundo Quadripartiti, capitulo 11, per venerabilem egregiumque virum magistrum Petrum Gaschowicz artium ac medicine doctorem celeberrimum rectificate. Totum signum Arietis facit tonitrua et relampagos — (Pisces) meridionales facientes grandines de natura Saturni’ (in the form of a table).
= **Petrus Gaszowiec, *Tabula de naturis particularibus signorum et facierum* (C.2.7).** No glosses.

Jena, Thüringer Universitäts- und Landesbibliothek, El. f. 73

s. XVIⁱⁿ (astronomical table 1520–1534 f. 44v; note ‘20 Iu<nii> <15>21’ f. 132v). **Or.:** copied by Johann Volmar (d. 1536) at least partly at the University of Wittenberg, where he was

professor of mathematics since 1519. **Prov.:** Volmar bequeathed his MSS to Johann Friedrich I, Elector of Saxony (1532–1554), in 1536.

Paper, 198 f., a single hand.

Astronomy, astrology, mathematics, medicine, geography and various. Practitioner's handbook made of texts, excerpts and scattered notes difficult to read and collate. Identified items include: table of contents by Johann Volmar (1r); geometry 'Artis cuiuslibet consummatio...' (21ra–25va); Jacques Lefèvre d'Étaples, *De physiognomia* (34ra–37ra); *Equatorium planetarum* 'Testante Ptolomeo in suo Centiloquio verbo quinto astronomum malum...' (41r–43v); Martinus Krol de Zurawica, *Experimenta astrologica* (46r–46v); Valentinus de Zator, judgement on the comet of 1472 (56r–56v); Prophatius Judeus, *Quadrans novus* (57r–59r); Regiomontanus, *Tabule primi mobilis* (69r–113r, tables); 'In Cosmographiam Ptolomei introductio. De circulis spere celestis caput pimum. Quia in sequentibus frequens sermo erit de circulis spere...' (116r–125v); Martinus Bylica de Olkusz, *De modo rectificandi genituras humanas* (129r–129v); 22 horoscopes, mainly of famous Polish people (131v, 132r, 135v and 136v); Johannes Stercz, *De rectificatione geniturae humanae* (133r–135r); Regiomontanus, *Tabule primi mobilis*, canons (140v–174r); Regiomontanus, *De torqueto* (191r–194v); 'Sequitur compositio torqueti. Si quis volueris componere torquetum...' (195vb–197ra). The first **Ptolemaic section (8r–9r, 138r and 179r–180r)** consists of three excerpts found (1) between medical recipes (5ra–7ra) and scattered notes in Greek (11r–18v); (2) between diagrams and notes for finding the altitude of the Sun (137r–138r) and 'Revolutionem utantis alicuius vel initii per tabulam Blankini [Bianchini]...' (138v); (3) among various excerpts on astronomical instruments (179r–185rb), including 'Regulas Ptolomei fabricare. Tres regulas planas superficiem parallelogramarum...' (183ra–185rb). The second **Ptolemaic section (182ra–182vb)** occurs among the same excerpts on instruments.

Bibl. Kristeller 1963–1992, III, 409; Markowski 1990, 290; B. Tönnies, *Die Handschriften der Thüringer Universitäts- und Landesbibliothek Jena*, I: *Die mittelalterlichen lateinischen Handschriften der Electoralis-Gruppe*, Wiesbaden, 2002, 197–209; Zepeda 2018, 75.

8r–9r, 138r, 179r–180rb 'Propositio secunda tertii <libri>. Anni quantitatem per observationem elicere. Diversi diversas circa anni quantitatem considerationes — (9r) esset centrum umbre fieretque eclipsis Lune maxima que possibilis est precipue. (138r) Propositio XVI libri sexti Epitome magistri Iohannis de Regio Monte super Almagestum Ptolomei. In eclipsi lunari ex latitudine Lune in medio eclipsis — in obscuracione moram faceret. (179r) Propositio 17 primi <libri>. Distanciam duorum tropicorum instrumenti artificio deprehendere. Disponas quartam circuli partem — videbis corpus spericum instar firmamenti esse constitutum.'

= **Johannes Regiomontanus, *Epitome Almagesti* (C.1.21)**, three excerpts: (1) III.2–3, 22–24 and 29, IV.1, V.21, VI.7–10 and 16, 8r–9r; (2) VI.16 and 23, 138r; (3) I.22 (not 17!), II.28–32 and 35–36, III.1 and VIII.2, 179r–180r. No glosses.

182ra–182vb 'Locum stelle secundum longitudinem et latitudinem artificio instrumenti deprehendere. Queruntur primum due armille — et ita locum longitudinis et latitudinis ut prius cognosces.'

= *Almagesti minor* (C.1.4), V.1, without the final paragraph. No glosses.

Jena, Thüringer Universitäts- und Landesbibliothek, 4 Phil. X.12

s. XVIⁱⁿ. **Or.:** copied by Johann Volmar (d. 1536). **Prov.:** Volmar bequeathed his MSS to Johann Friedrich I, Elector of Saxony (1532–1554), in 1536.

Paper, 197 f., a single hand [Johann Volmar] alternating with three printed texts (f. 2r–48v, 82r–103v and 104r–121v) which are themselves heavily glossed by Volmar.

Astronomy, astrology, geography and various: Hyginus Mythographus, *De mundi et sphaerae ac utriusque partium declaratione cum planetis et variis signis historiatis* (2r–48v, printed text from ed. Venice 1502); astronomical and astrological notes ‘Circulus positionis est unus ex circulis magnis...’ (49r–51r); Johannes Stöffler and Jacob Pflaum, *Almanach nova* (51r–67r, continued f. 78v–80r); various astrological notes, mainly on the planets and the signs ‘Cum tibi offeretur aliqua virtutis figura numquam iudicium facias...’ (67v–78v); sauf Johannes Stöffler and Jacob Pflaum, *Almanach nova* (78v–80r, see f. 51r–67r above); astronomical and astrological notes ‘Canon ad erigendum figuram celi per tabulas directionum. Gradum Solis cum minutis...’ (80v–81v); Bartholomaeus Coloniensis, *Epistola mythologica* (82r–103v, printed text from ed. Venice 1503); Filippo Beroaldo, *De felicitate* (104r–121v, printed text from ed. Bologna 1502); **Ptolemaica (122r–164r)**; George of Trebizond, *Liber de antisciiis* (164r–166v); various notes of astrology and astronomy ‘De mansionibus Lune in signis. Indi dixerunt totum zodiacum in 28 partes...’ (167r–173v); medical recipes (174r–175r); notes of geography ‘Hec quatuor cosmographia, geographia, topographia et corrographia sic dicunt...’ (175v); ‘In Cosmographiam Ptolomei introductorium. De circulis spere celestis caput I...’ (176r–191v); recipes in German (192r–195r); added notes by another hand (196v). Blank: 195v, 196r, 197 (except for added notes f. 197v).

Bibl. J. Ott, *Die Handschriften der Thüringer Universitäts- und Landesbibliothek Jena*, III: *Die mittelalterlichen französischen Handschriften der Electoralis-Gruppe; mittelalterliche Handschriften weiterer Signaturreihen (Abschluss)*, Wiesbaden, 2016, 138–45.

122r–164r ‘Librum Claudii Ptolomei michi Alfonse rex inclite traductum quem vulgo Centiloquium ipse fructum appellat... (122v) Liber Claudii Pto<lomei> qui vocatur fructus ad illustrissimum Alphonsum regem Aragonum et utriusque Sicilie a Georgio Trapezuntio ex Greco in Latinum versus. Iam pridem perutiles ad providendum operationes stellarum, o Syre, quas in hoc composito efficiunt... Georgii Trapezuntii in aphorismos libri fructus Pto<lomei> commentarii. Libellus hic quem de Greco traductum nomini tuo dedicavimus, illustrissime rex... (123v) Abs te et a scientia, non est enim possibile ut huius scientie professor particulares rerum ideas provideat... Abs te, inquit, hoc est a quadam insita vi animi et ingenio — ut sicut raro apparent, sic inconsueta significare videantur.’
= **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**. George of Trebizond’s preface, 122r–122v; author’s preface, 122v; commentary on author’s preface, 122v–123v; text

and commentary in alternating sequence, 123v–164r. A few glosses by the scribe f. 123v, 133r, 136v, 137r, 138r, 138v, 146v and 147v.

Karlsruhe, Badische Landesbibliothek, Rastatt 36

s. XV^{ex} (c. 1493, cf. f. 114r: ‘Et finis huius tractatus anno domini 1493 tercia feria post Palmarum in alma universitate Crac<oviensis> per me Bernhardum Manlechen de Selmua.’ The date 1493 is also given on f. 137v (‘Amen. 1493’) and matches the syzygy and eclipse tables f. 51r–55v and 64r–66v; the table of contents on the inner front cover is dated 1499). **Or.:** copied by ‘Bernhardus Manlechen de Selmua’ (see above, also f. 38v: ‘Finis huius tractaculi astronomie per B. M. in alma universitatis Crac<oviensis>’) or Bernhardus Conradi Mahvlehel de Selmua from the diocese of Constance, who matriculated at the University of Cracow on 26 February 1491 (*Album studiosorum Universitatis Cracoviensis*, II.1, Kraków, 1892, 6; also Birkenmajer, 98 n. 2). Most if not all of the MS was copied at Cracow. **Prov.:** Achilles Pirmin Gasser in 1530, cf. ‘Sum Achillis P<irminii> Gassaeri, Maii 2 die 1530... Lindauii [Lindau]’ f. 1r and further notes by him throughout, including astronomical adjustments for 1530 in Lindau f. 27r–31r and 51r; Rastatt, library of the margraves of Baden-Baden, then, in 1771, of the margraves of Baden-Durlach in Durlach.

Paper, [18] + 232 f., one main hand.

Astronomy, arithmetic and astrology: table of contents dated 1499, incomplete (inner front cover); *Computus Nurembergensis*, printed text from ed. Leipzig 1499 (17 f., unnumbered); Johannes de Glogovia, comm. on Sacrobosco’s *De sphaera* (1r–10v); ‘Regula falsi. Prima pars regule falsi est quando duo numeri...’ (11r–14v); Johannes de Glogovia, *Canones Tabularum resolutarum* (15r–26r); Petrus Gaszowiec, *Tabule auree* (27r–34v), with canons (35r–38v); Hermann of Carinthia, *Liber imbrum*, attr. Aomar (39r–43v); notes of astrometeorology, with mention of the great conjunction of 1484 (43v–44r); ‘De planetarum aspectibus et eorum effectibus erga se invicem et primo propter suis inferioribus. Cum igitur Saturnus applicat Iovem...’ (44v–45r); ‘Colores eclipsium antequam eveniant cognoscere, considera latitudinem Lune...’ with table (45v–46r); star table with canons (46v–47r); table ‘Tabula per quam scitur meridies omni die...’ (47v–48r); syzygy tables 1493–1552 (51r–55v); astronomical calendar (56r–61v); eclipse tables 1495–1551 (64r–66v); other astronomical tables and diagrams (67r–68v); four chapters on nativities (75r–76r): ‘Ad inveniendum gradum ascendentem tempore nativitat...’ (75r), **Ptolemaica (75r–75v)**, ‘Generalis modus inveniendi partem proportionalem, hoc est quartum numerum proportionalem ignotum...’ (75v–76r) and ‘Pro tempore revolutorio inveniendi...’ (76r); treatise on nativities ‘Cum celum istorum inferiorum generationis corruptionisque causa ab Aristotile summo philosophorum principe...’ (77r–83r); *Tractatus de scientia nativitatum* ‘Canon primus ostendens invenire gradum ascendentem alicuius nativitat...’ (85r–102r), including **Ptolemaica (85r–85v)** as opening chapter; Johannes de Lübeck, *Pronosticum super Antechristi adventu Iudeorumque Messie* (102v–108r); ‘Si quis aliquando fugit ab aliquo sicut aliquando fugit servus vel multa vel forte...’ (109r–114r); four horoscopes for Frederick III, Maximilian I, Casimir IV and Vladislaus II (114r); Johannes de Glogovia, *Summa astrologie*, Book II (114v–137v); astrological chapters ‘De infortunis et impedimentis planetarum hoc sit multis modis...’ (137v–139v); astronomical diagrams related to Peurbach’s *Theoricae novae planetarum* (142r–154v); Albertus de Brudzewo, *Commentariolum super Theoricas novas Georgii Purbachii* (155r–189r); ‘Compositurus horalogium noctis fac

circulum in tabula...' (191r–192v); Cristannus de Prachaticz, *Compositio astrolabii* (193r–206v); Cristannus de Prachaticz, *Usus astrolabii* (207r–220v); 'Canon pulcher pertinens ad canonem 12 ad inveniendum ortum Solis...' (220v–221r); 'Epitoma super corruptione spere materialis brevissima...' (221v); Robertus Anglicus, *Quadrans vetus* (222r–229r); geometrical diagrams (229v). Blank: 26v, 48v–50v (except unfinished drawing of an astronomical instrument f. 50r), 62–63, 69–74, 76v, 83v–84v, 108v, 140–141, 189v–190v, 230–232.

Bibl. Birkenmajer 1924, 98–99; *Die Handschriften der Badischen Landesbibliothek in Karlsruhe*, III: A. Holder, *Die Durlacher und Rastatter Handschriften. Neudruck mit bibliographischen Nachträgen*, Wiesbaden, 1970, 124–27 and 214; Rosińska 1984, 552 (index); Markowski 1990, 291; S. Heilen, *Konjunktionsprognostik in der Frühen Neuzeit*, I: *Die Antichrist-Prognose des Johannes von Lübeck (1474) zur Saturn-Jupiter-Konjunktion von 1504 und ihre frühneuzeitliche Rezeption*, Baden-Baden, 2020, 204–06; Malpangotto 2020, 656 and 665–66.

75r–75v 'Ad inveniendum gradum ascendentem tempore nativitatis qui potest invenire per animoda (!)... Circulum pro exitu geniture ab utero iuxta verbum Pto<lomei> 51 rectificare. Sit tempus datum — illum tota figura rectificanda est in tempore.'

= **Albertus de Brudzewo (?)**, *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17). Two marginal notes by the scribe.

85r–85v 'Canon primus ostendens invenire gradum ascendentem alicuius nativitatis humane... Circulum pro exitu genitrice ab utero iuxta verbum Ptolomei quinquagesimum primum rectificare. Sit tempus datum — iuxta illum tota figura rectificanda est in tempore.'

= **Albertus de Brudzewo (?)**, *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17), as the first *canon* of the *Tractatus de scientia nativitatum*. No glosses.

Katowice, Biblioteka Śląska, R 51.II

s. XVIⁱⁿ (f. 85–106 and 236r–249v copied in 1524, cf. f. 106v and 249v). **Or.:** personal notebook of one Leopold Liepphart or Liepharth, cf. f. 106v: 'Leopoldi Liepphart Lombardie artis ... (?) in Chorinthia ex Austriaca natione ego sum. 1524'; f. 236r: '... ego Leopoldus Liepharth incipio...', f. 249v: 'Finit per Leopoldum Liepphart in die sancti Vincenti anno etc. 1524 in Reirsach (?)'.

Paper, 249 f., one main hand, painted initial f. 2r.

Astrology, astronomy and alchemy: *Tractatus de scientia nativitatum* 'Canon primus ostendens invenire gradum ascendentem alicuius nativitatis humane...' (2r–32v), including **Ptolemaica** (2r–3r) as opening chapter; Albertus de Brudzewo, judgement on a nativity of 6 April 1445 (35r–44r); tables: 'Tabula ad sciendum per Lunam quanta est mora creature (?)' (47r–50r); astronomical tables (51r–61r); 'Sequitur Elucidarius secreti omnium philosophorum et expositio verborum ipsorum quibus celaverunt et obscuraverunt dictum secretum ipsorum. Quia in paucis verbis huius doctrine...' (62r–64v) and other alchemical texts (65r–84v); table:

influence of the 12 signs on the weather (85v); Johannes de Glogovia, *Introductorium astronomic in ephemerides* (86r–106v); astrological tables and notes on essential doctrines (107r–111v); ‘Regule generales de tempore pluvioso et humido...’ (111v–112r); ‘Canones pro minutionibus faciendis...’ (112r–114r); ‘Secuntur experimenta astrologica. Saturnus stationarius statione secunda fere per totum tempus statione nebulas notabilissime...’ (116r–129r); ‘Omnis planeta sub luce Solis virtute caret. Substantia Veneris est pluvia, Lune aqua...’ (130r–138r); ‘Cum volueris scire applicationem alicuius magne revolutionis, vide quot transierunt...’ (138v–146v); ‘Ut iudices (?) dispositionem vite prescite in mansionum...’ (147v–158v); ‘Testamentum Gebri in arte probatissimum opus, nihil habens falsitatis. In nomine omnium rerum superiorum...’ (159r–179v) and other alchemical texts (180r–234r); ‘Notandum secundum Iohannem Rupicissam in qua hora, die et mense ibi fieri. Inceptio operis etiam signo debito. Item. In occasu Solis...’ (234v–235v); ‘In cuius (?) nomine omne celestium, terrestrium et infernorum... ego Leopoldus Liepharth incipio hanc rescribere artem phisicam... Qui desiderant artis philosophice...’ (236r–249v). Blank: 33–34, 44v–46v, 50v, 61v, 85r, 114v–115v, 129v.

Bibl. Kristeller 1963–1992, IV, 401; Markowski 1990, 291 (‘R. 57.II’ by mistake).

2r–3r ‘Canon primus ostendens invenire gradum ascendentem alicuius nativitatibus humane... <C>irculum pro exitu geniture ab utero iuxta verbum Ptholomei 51 rectificare. Sit tempus datum — iuxta quam illum tota figura rectificanda est in tempore.’

= **Albertus de Brudzewo (?)**, *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare (C.3.17)*, as the first *canon* of the *Tractatus de scientia nativitatibus*. Glosses apparently by another hand.

Klagenfurt, Archiv der Diözese Gurk – Bischöfliche Mensalbibliothek, XXXI b 10

s. XV² (1457 for f. 1–73, cf. colophon f. 67r).

Paper, 115 f., three hands (f. 1–73, 74–106 and 107–112), painted initials f. 1r and 74r.

Astrology: **Ptolemaica (1r–73v)**; Pseudo-John of Seville, *Epitome totius astrologie*, incomplete (74r–112v). Blank: 113–115.

Bibl. *Handschriftenverzeichnisse österreichischer Bibliotheken*, I: H. Menhardt, *Handschriftenverzeichnis der Kärntner Bibliotheken*, 1: Klagenfurt, Maria Saal, Friesach, Wien, 1927, 70–71.

1r–73v ‘Res, <o Mizori,> qu<ib>us perficiuntur pronosticationes <acc>epte [first two lines partly illegible due to stains] de astronomia maiores et nobiliores sunt due — (67r) Et postquam in modo universali perficimus iudicium nativitatibus finem in hoc loco huic libro inponere conveniens extimamus. Explicit liber quadripartitus Ptholomei 13a die mensis Septembris anno domini MCCCC^oLVII^o. Incipiunt tria exempla nativitatibus Haly que aducuntur in fine scripti ipsius Haly super 4 tractatus Quadripartiti Ptolomei. Volo in hoc loco dare tibi exemplum trium nativitatibus ut melius intendas quicquid

locuti sumus in eis, in prima (!) est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in nam (!) rectam. Volui probare utrum iste actor (!) iudicaret secundum nonam speram vel secundum octavam, et inveni per loca planetarum que ponit in figura sue nativitatis quod ipsa fuit annis Christi perfectis 986, 10 mensibus, 15 die Ianuarii, qua die equavi planetas secundum tabulas Mach<linienses> et inveni sic.'

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**, without the translator's preface and without Haly's preface and commentary (but with Haly's appendix). I, 1r–14v; II, 14v–28v; III, 29r–53r; IV, 53r–67r; Haly's appendix, 67r–73v; additional note, 73v. Marginal notes f. 17r (quoting Haly) and 37r, apparently by the scribe; one substantial gloss f. 24v, in a later hand.

Klosterneuburg, Stiftsbibliothek, 682

s. XV¹ (copied in 1435, cf. colophon). **Or.:** copied at the University of Vienna by Martinus Mospekch, bachelor of the faculty of arts of that university (cf. colophon), who also partly copied MS → Vienna, ÖNB, 5266. It is possibly in the same hand as Munich, BSB, Clm 32, a deluxe astrological MS copied in 1444 for Frederick of Habsburg, future Emperor Frederick III. **Prov.:** monastery of Klosterneuburg in the 15th c. (ex-libris on f. 2r, 102r and 224r: 'Liber Sancte Marie in Neronburga claustrali'; ex-libris of 1656 on f. 2r).

Parchment, 225 f., a single very neat hand, deluxe MS, with a superb painted initial on f. 2r and initials in blue and red throughout, sometimes decorated.

Ptolemaica (single text). Blank: 1v, 224v–225v.

Bibl. *Catalog of Manuscripts in Stift Klosterneuburg, Austria*, IV: *Codices 637–830*, Ann Arbor, 1972 (handwritten catalogue), 884; Kristeller 1963–1992, III, 21; Kunitzsch 1986–1991, II, 15.

1r–224r 'Opus Ptolemaei quod Almagestum dicitur de scientia stellarum motuumque in caelo contingentium [title page, f. 1v blank]. (2r) Quidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (2v) Bonum scire fuit quod sapientibus non deviantibus visum est — et abbreviationem arrogantiam et collaudationem, tunc iam sequitur et honestum est ut hic inponamus finem libro. Anno domini millesimo quadringentesimo tricesimo quinto, prima feria secunda post dominicam qua in ecclesia Dei cantatur remiviscere, finitus est iste liber Almagesti in alma universitate studii Wyennen<si> per Martinum Mospekch artium baccalarium studii eiusdem etc.'

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 2r–2v; I, 2v–16v; II, 16v–37r; III, 37r–51r; IV, 51r–69r; V, 69r–91r; VI, 91r–110v; VII, 110v–126v; VIII, 126v–141r; IX, 141r–158r; X, 158r–172v; XI, 172v–191r; XII, 191v–206r; XIII, 206r–224r. No glosses.

Klosterneuburg, Stiftsbibliothek, 687

s. XIII² (after c. 1262, date of composition of Hermes's *Centiloquium*). **Prov.:** monastery of Klosterneuburg at least since the 15th c. (ex-libris on f. 102r: 'Liber Sancte Marie in Neronburga claustrali'; ex-libris of 1656 on f. 1r).

Parchment, I + 102 + I^a f., a single neat hand.

Astrology: Albumasar, *Introductorium maius*, tr. John of Seville (1ra–74ra); **Ptolemaica** (74rb–101ra); Hermes, *Centiloquium* (101ra–102vb); Bethen, *Centiloquium*, beginning only (102vb). One or several folia appear to be missing after f. 102. Added astrological notes on f. Iv and I^ar, including a table for 1381–1398 on f. I^ar.

Bibl. *Catalog of Manuscripts in Stift Klosterneuburg, Austria*, IV: *Codices 637–830*, Ann Arbor, 1972 (handwritten catalogue), 900; Lemay 1995–1996, IV, 115–18.

74rb–101ra '[Blank space left for the title] <R>erum, o Syre, in quibus est pronosticabilis scientia stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libri finem inponere non incongruum existimamus. Amen.'
 = **Ptolemy, *Quadripartitum***, tr. **Plato of Tivoli (A.2.1)**. I, 74rb–80vb; II, 80vb–87ra; III, 87ra–96ra; IV, 96ra–101ra. Blank spaces for titles. Glosses by a later hand (14th or 15th c.) throughout, particularly abundant in Books II–III.

Leiden, Universiteitsbibliotheek, Voss. Chymici Q.27

s. XVI¹ (before 1540). **Or.:** Bohemia (Prague?). **Prov.:** Johannes Zajici of Hasenburg (d. 1553); Queen Christina of Sweden; Isaac Vossius (d. 1689).

Paper, 159 f., two hands (f. 1–129 and 130–59).

Natural philosophy, astrology and medicine: Roger Bacon, *Epistula de secretis operibus artis et nature et de nullitate magie* (1r–13r); Roger Bacon, *Opus maius*, Book VI (13v–50v); Peter Peregrinus of Maricourt, *De magnete* (51r–58r); Rhasis, *Liber de proprietatibus sexaginta animalium* (58v–79r); Messahallah, *De cogitatione* (79v–81v); Jafar, *De pluviis et ventis* (81v–83v); Guillelmus Anglicus, *De urina non visa* (84r–91r); Abraham Avenezra, *De terminatione morborum* (91r–99r); Abraham Avenezra, *Liber de iudiciis* (99r–101v); Thetel, *Liber sigillorum* (102r–109v); **Ptolemaica** (110r–114v); *De Antichristo* 'De terminatione durationis mundi. Ad ultimum autem quedam pauca sed subtilia et utilia...' (115r–118v), with note 'Aliqui dicunt quod adventus Antichristi erit post 1260 annos...' (118v); 'De diebus creticis pro pronosticanda mutatione aeris. Ut dicitur in comento super Ipocratis de diebus creticis periodorum...' (119r–129r); 'Nota si in gradu alicuius nativitatis Luna est in gradu ascenditis...' (129r–129v); 'Pronosticatio mortis aut salutis infirmi per Lunam. Sepius probatum est. Si quis prima Luna infirmitate gravatus decumbat...' (129v); 'Incipit physionomia Aristotelis. Quoniam et anime sequuntur corpora...' (130r–141v); 'Regimen bonus corporis. Cum autem corpus quandoque repletum fuerit...' (142r–144r); Johannes Jacobi, *De pestilentia* (144r, beginning only, see below); 'Hic tranctandum est de complex-

ionibus. Omnium hominum viventium in hoc mundo...' (144v–151r); Johannes Jacobi, *De pestilentia* (151r–159r); prophecy 'Hoc regnum Bohemie nullo humane providentie regitur consilio...' (159v).

Bibl. P. C. Boeren, *Bibliotheca Universitatis Leidensis. Codices manuscripti*, XVII: *Codices Vossiani Chymici*, Leiden, 1975, 165–70; Moulinier-Brogi 2011, 211–12.

110r–114v 'Liber Ptolomei de imaginibus super facies signorum. Opus imaginum Ptolomei et est omnibus modis propior et veratior in probatione quoniam eius effectus constitutus est super facies signorum 12. Dixit Alburabeth Benfelix quia omnes orientales operabantur per has imagines — et impetrabis a Deo quod animus tuus desiderat. Doxa theos. Explicit liber Ptolomei de imaginibus super facies signorum. Nota quod libellus dictus est a quibusdam a Ptolomeo, quod non est credendus, quia Albertus in suo Speculo dicit quod hic tractatus, sicut est, est inutilis, etiam (?) non est credendum quod virtus (?) tante laudis, tante scientie discretionis ingenii subtilitatis et sapientie, libellum inutilem, sicut est iste, scripserat. Nihilominus ut sapientes omnia, sive bona sive mala, videant, et ut boni sequantur, mali autem et a lege nostra falsa cognoscant, et evitare possint in hoc volumine multa rationi et fidei nostre contraria collegi, ut ipsis previsis minus feriant.'

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, with an additional note at the end. No glosses, except for one short marginal note by a later hand f. 110v.

Leiden, Universiteitsbibliotheek, Voss. lat. O.3

s. XV² (1456 for f. 143–174, cf. colophon f. 169v; f. 1–68 and 73–107 were copied in 1470 and 1472, cf. colophons f. 168v and 107v). **Or.:** Italy. **Prov.:** Paul Petau (d. 1614) and his son, Alexandre Petau; Queen Christina of Sweden; Isaac Vossius (d. 1689).

Paper, 174 f., composite MS made of five parts (f. 1–68, 73–107, 108–131, 132–141 and 143–169). F. 165–174 are torn, making most of the text there illegible, something which affected the Ptolemaic sections.

Astrology, astronomy and medicine: Manilius, *Astronomica* (1r–68v); Hyginus, *De astronomia* (73r–107v); *De interpretatione somniorum* (108r–131r); Johannes Tortellius Aretinus, *Epistola de historia medicinae* (132r–141r); **Ptolemaica (143r–169v)**. Blank: 69r–72v, 131v, 141v–142v, 170–174 (except for 'Anni mundi revolutio... millesimo quadringen...' f. 170r).

Bibl. G. I. Lieftinck, *Manuscripts datés conservés dans les Pays-Bas. Catalogue paléographique des manuscrits en écriture latine portant des indications de date*, I: *Les manuscrits d'origine étrangère (816–c. 1550)*, Amsterdam, 1964, 98–99 (no. 229); K. A. De Meyier, *Bibliotheca Universitatis Leidensis. Codices manuscripti*, XV: *Codices Vossiani latini*, III: *Codices in octavo*, Leiden, 1977, 8–12; Kristeller 1963–1992, IV, 370; Lemay 1999, I, 283.

143r–169v 'Incipit Centiloquium Ptholomei. Dixit Ptolomeus: Iam scripsi tibi, Iesuairo (!), libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te

et ex illis est... Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — (168v) ...precor ut te... die mensis... 5305. ... cuius prima... quinta dominus Al... — (169r) ... erunt quam... quidquid ip.... Dix... sperma... in hora inf... — ... erit locus... tus et hoc... pro me... medicus etc. <1>456 etc. ac astrologus.'

= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. The text ends with Pseudo-Ptolemy's *De cometis* (B.4) on f. 168v–169r (see below) and *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 169r–169v (see below). No glosses. The damage to f. 165–169 (torn) makes most of the text from v. 86 onwards illegible.

168v–169r '... cuius prima... quinta dominus Al... — ... erunt quam... quidquid ip...'
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). The text is mostly illegible due to torn folia. No visible glosses.

169r–169v 'Dix... sperma... in hora inf... — ... erit locus... tus et hoc...'
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). The text is mostly illegible due to torn folia. No visible glosses.

Leipzig, Universitätsbibliothek, 1463

s. XV² (planetary almanac for 1458 f. 67v–78r; 1487, cf. f. 127r and 136r). **Or.:** University of Leipzig, partly copied by Virgilius Wellendörffer of Salzburg, then 'baccalarius' (cf. f. 12v, 107r, 127r, 133v).

Paper, 173 f., several alternating hands.

Astronomy, astrology and various: 'Utile commentum super theoricis planetarum septem' (1r–12v); 'Doctrina bona et utilis conscripta domino domino graciosi Friderico duci Saxoniae a quodam antiquo' (14r–15r); Pseudo-Albertus Magnus, *Speculum astronomie* (15v–22r); prognostication for the years 1356–1360 'In laude Dei pii misericordissimi incipit preciosum effectuum preclarum prestigium de secretis secretorum siderum...' (22v–30v); Geoffrey of Meaux, judgement on the great conjunction of 1345 (31r–31^{bis}r); horoscopic diagram summarising the 12 houses (39v); Alcabitus, *Introductorius* (40r–64v); scattered notes (65r–67r); planetary almanac for 1458 (67v–78r); ascension table for latitude 51° (85r–87v); ***Ptolemaica* (88va–103va and 103vb–105ra)**; 'Aspectus 4 sunt, sextilis, quadratus, trinus, oppositio...' (105v–106r); scattered notes (107r–107v); 'Imperator Fridericus regni sui fidelibus. Habita super hoc...' (108r–127r); 'Incipit liber Hipocratis de natura puerorum vel de natura fetus aut de natura embrionis' (127v–133v); 'Circa tractatum de modo studendi...' (134v–140r); 'Divi Ipocratis liber de natura humana incipit foeliciter' (140v–143v); calendar, tables and texts of computus, and paper instruments (144r–172v). Blank: 13, 31^{bis}v–39r, 78v–84v, 88r, 106v, 134r, 159v, 173.

Bibl. R. Helssig, *Die lateinischen und deutschen Handschriften der Universitätsbibliothek Leipzig*, III: *Die juristischen Handschriften*, Leipzig, 1905 (reprinted Wiesbaden, 1996), 345; Kristeller 1963–1992, III, 420; Lemay 1999, I, 248 and 302.

- 88va–103va ‘Incipit Centiloquium Ptholomei Phitensis foelicitur. <D>ixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc, Iesure (!), de hoc quod operantur stelle in hoc seculo... <S>cientia stellarum ex te et ex illis est... Quod dixit Ptolomeus, ex te et ex illis est, significat qui res futuras desiderat scire — et ego Deum deprecor ut te diligat. Et perfecta est huius libri translacio.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. No glosses.
- 103vb–105ra ‘<D>ixit Ptolomeus: Mundanorum mutatio ad hoc et ad illa corporum supracelestium... Doctrina stellarum ex te que ex illis est. Nec est doctrina — addit partes tantum retro dabunt.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), ‘Mundanorum’ version (C.3.1.3)**, v. 1–25, without the commentary. Each *verbum* is also given in Adelard of Bath’s translation (B.1.1). No glosses.

Leipzig, Universitätsbibliothek, 1471

s. XVⁱⁿ (MS mainly copied in 1423, cf. f. 66ra: ‘Explicit Alfraganus sub anno domini M^oCCCC^oXXIII...’; f. 168vb: ‘Explicit Firminus de impressionibus aeris anno incarnatione Christi 1423^o finitus’; the colophon f. 241vb, ‘anno domini M^oCCC^oLIX...’ must be a mistake or the date of the exemplar). **Or.:** Germany (f. 249va–277vb copied by one Nicolaus de Barby [Barby near Magdeburg], cf. f. 257rb: ‘Explicit liber Palladii bonus et utilis per manus Nicolay de Barby etc.’ and f. 277vb: ‘Qui scripta scripsit hoc nomine participatur. In Barby natus Nicolaus sumque vocatus’). **Prov.:** perhaps the University of Leipzig by c. 1500, cf. mention of ‘Andreas Sulzcbach’ (inner back cover), who may be Andreas Anckfelder/Anckfelder de Sulzcbach, who matriculated at the University of Leipzig in 1496 and became master from that university in 1510 (Giese).

Paper, 279 f., several similar hands. Sections appear to be missing at the beginning and at the end.

Astrology, astronomy and medicine: diagram of the 12 signs and triplicities (6r); tables of essential dignities and degrees (6v–7r); Alcabitius, *Introductorius* (7va–21va); **Ptolemaica (21va–34vb)**; Albumasar, *Flores* (34vb–45rb); Messahallah, *De cogitatione* (45rb–46ra); Messahallah, *Liber receptionis*, incomplete (46ra–49vb); Alfraganus, *De scientia astrorum* tr. John of Seville (50ra–66ra); Leopold of Austria, *De astrorum scientia* (66va–135rb); Firminus de Bellavalle, *De mutatione aeris* (135rb–168vb); ‘Quod si interrogatus fueris de infirmo utrum sanetur vel moriatur... Explicit translatio magistri Bernardi de Gordonio’ (170ra–180rb); table of planetary latitudes with canons (180v–181vb); antidotary ‘Secundum quod vult Avicenna in primo libro...’ (182ra–211rb); ‘Circa prenostica Arnoldi de Nova Villa primo est notandum quod sicut in iudicio...’ (211va–221vb) and other treatises of medicine, mainly by Arnold of Villanova (222ra–277vb), including Arnold of Villanova (?), *De iudiciis particularibus pertinentibus ad medicinam*, excerpt ‘Quoniam autem medicus practicans non semper potest habere circa loca planetarum...’ (248rb–249ra). Blank: 169. F. 1ra–5vb and 278ra–279vb contain extraneous material.

Bibl. Kristeller 1963–1992, III, 420; Lemay 1999, I, 344; M. Giese, ‘Zur lateinischen Überlieferung von Burgundios Wein- und Gottfrieds Pelzbuch’, *SA* 87 (2003), 196–234: 218; Nicoud 2007, II, 832.

21va–34vb ‘Incipit Centiloquium Ptolomei. Scientia astrorum ex te et illis est. Et non oportet peritum illorum iudicare secundum formam effectuum particularium — (24ra) et si non ambulaverit rebellis est de eodem climate etc. Explicit Centiloquium Ptolomei. (24rb) Incipit commentum super Centiloquium Ptolomei. Mundanorum ad hoc et ad illud mutacio est corporum celestium... 1. Scientia astrorum ex te et illis est. Astrologus non debet dicere rem specialiter et (!) universaliter... Quod dixit, ex te et illis, significat quod qui res futuras prenoscere desiderat — quanto melius potuimus exposuimus. Explicit commentum super Centiloquium Ptolomei astrologi.’
= **Abuifār Hamet filius Joseph, *(Commentum in Centiloquium)*, ‘Mundanorum’ version (C.3.1.3).** ‘Mundanorum 1’, 21va–24ra, and ‘Mundanorum 2’, 24rb–34vb. No glosses.

Leipzig, Universitätsbibliothek, 1472

s. XV² (f. 168r: ‘Et tantum de isto 1469’; the year 1486 mentioned f. 103v and 105v). **Prov.:** Altzella Abbey (Saxony) by 1506 (f. 1v–2r: ‘Liber monasterii Veteris Celle ad armarium publicum repositus anno 1506’).

Paper, 168 f., one main hand.

Astrology and astronomy: table of contents (inner front cover); ***Ptolemaica* (1r–53v)**; *Astronomia Ypocratis* (59r–69v); ‘De preparatione medicinarum secundum aspectum debitum per viam electionis. Anima sapiens adiuvat celestem effectum...’ (70r–77r); ‘Liber de diebus creticis noviter translatus. In principio egritudinis homo qua ponit se...’ (77r–82v); ‘Considerationes utiles ad medicinam pertinentes. Pono decem consideraciones quas medicum non oportet ignorare...’ (82v–85r); ‘Tractatus perutilis de crisi. Secundum quod dixit Galienus 30 de creticis diebus...’ (85r–88r); Guillelmus Anglicus, *De urina non visa* (88r–99r); ‘Ignis est calidus et siccus, colera cuius prima sedes est in dextra parte capitis...’ (99v–103r); ‘Cum fuerit Luna in Capite vel Cauda in uno signo est dies cavenda in omnibus...’ (103v–105v); Alkindi (?), *Saturnus in Ariete sub radiis*... (106r–110v); Hermes, *Tractatus de iudicio urine* (111r–115r); ‘Astronomia. Scientia stellarum ex te et ex illis...’ (119r–132v); ‘Incipiunt virtutes signorum zodiaci. Quicumque voluerit scire cursum Lune sciat primitus quomodo Sol...’ (133r–140r); *Figure septem planetarum* ‘Figura Saturni est super 3 multiplicabilis per tria...’ (140v–142v); ‘Nota versus de regimine planetarum. Est tibi Saturne domus...’ (143r); ‘Incipiunt orationes septem planetarum et prima oratio Saturni, que est O Saturne alte...’ (143r–144v); notes on the astrolabe (145r); Cristannus de Prachaticz, *Usus astrolabii* (146r–168r); geographical coordinates of 25 cities (168v). Blank: 54–58, 115v–118v, 145v.

Bibl. Kristeller 1963–1992, III, 420; Lemay 1999, I, 248–49 and 415; Moulinier-Broggi 2011, 212–13.

- 1r–53v ‘Dixit Ptholomeus: Iam scripsi tibi, Ihesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est... (1v) Quod dixit Ptholomeus, ex te et ex illis, significat qui res futuras cognoscere (!) desiderat — (52r) quanto melius quivimus exposuimus. Ptholomeus in hoc libro tricas et tricarum nomina imponunt (!)... Stelle cum caudis sunt 9 — in regibus significabit et divitibus apparebit. Et hec de cometis breviter distinguimus. Explicit Centiloquium Ptholomei cum expositione Haly sui commentatoris.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. From v. 62 onwards, the commentary is replaced by both the proposition and the commentary in the ‘Mundanorum’ version (C.3.1.3). The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 52r–53v (see below). A few glosses by the scribe and by at least one other hand, including on smaller sheets of paper inserted in several places = f. 6^{bis}, 7^{bis}, 7^{ter}, 8^{bis}, 11^{bis}, 15^{bis}, 16^{bis}, 20^{bis} (blank), 22^{bis}, 23^{bis}, 25^{bis}, 39^{bis}, 47^{bis} and 48^{bis}.
- 52r–53v ‘Ptholomeus in hoc libro tricas et tricarum nomina imponunt (!)... Stelle cum caudis sunt 9 — in regibus significabit et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses, but names of the comets added in the margin.

Leipzig, Universitätsbibliothek, 1474

s. XV.

Paper, 141 f., a single hand.

Ptolemaica (single text), except for an alphabetical index of technical terms by the glossator on f. 138vb–141v.

Bibl. Kristeller 1963–1992, III, 420.

- 1ra–138va ‘Dixit Egidius Tebaldus Lo<m>bardus de civitate Parmensi: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (1rb) Tractatus primus glose Haly Abenrudiani super prima parte Quadripartiti libri Pto<lome>i Pheludani. Verba que dixit sapientissimus Pthole<me>us in arte iudiciorum... (2va) Res, o Mizori, quibus perficiuntur pronosticationes accepte de (2vb) astronomia maiores et nobiliores sunt due — (134vb) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit. Volo in hoc loco dare exemplum trium nativitatum ut melius intendas quidquid locuti sumus in eis, in primo est nativitas mea — (138ra) hec sunt que tibi glosavi sui quibus studium et mentem apponas et Deus te dirigat in viam rectam. Volui probare utrum iste actor (!) iudicaret secundum nonam speram vel secundum octavam, et inveni per loca planetarum que ponit in figura sue nativitatis quod ipsa fuit annis Christi perfectis 986, 10 mensibus, 7 (?) die Ianuarii, qua die equavi

planetas secundum tabulas Math<...>i (?) et inveni sic' (followed by chapter index, f. 138ra–138va).

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator's preface, 1ra–1rb; Haly's preface, 1rb–2va; I, 2va–34va; II, 34va–65rb; III, 65rb–107va; IV, 107va–134vb; Haly's appendix, 134vb–138ra; additional note, 138ra; chapter index, 138ra–138va. Glosses by a contemporary or somewhat later hand, which include quotations from the *Almagest* f. 1r–2r.

Leipzig, Universitätsbibliothek, 1475

s. XV² (1472 for f. 90–160 — and probably for f. 52–90, which are in the same hand —, cf. f. 160vb: 'Explicit compilatio Leupoldi ducatus Austrie filii de astrorum scientia anno domini 1472 currente...'; probably 1460 for f. 165–222, cf. two added notes in the margin of f. 165r mentioning the year 1460, one of which reads 'tempore nostro, scilicet 1460', and f. 222r: star table verified 1460, with added note giving the increment for 1490; f. 328v: added note to the star table giving increments for 1480, 1490 and 1500). **Or.:** probably Germany.

Paper, 365 f. (+ 11^{bis}, 216^{bis}, 226^{bis}, 241^{bis}, 243^{bis}, 266^{bis}, 271^{bis}, 294^{bis}, 299^{bis} and eight unnumbered fly-leaves put together in an appended envelope), with many inserted fly-leaves of smaller size (f. 5, 11^{bis}, 14, 53, 56, 65, 67, 216^{bis}, 223, 226^{bis}, 227, 229, 233, 235–236, 238, 241^{bis}, 242, 243^{bis}, 260, 266^{bis}, 271^{bis}, 275, 278, 282, 285–286, 292, 294^{bis}, 299^{bis}), numerous hands, three of which copied f. 2–51, 52–160 and 165–222 respectively.

Astrology, astronomy and geometry: astronomical note (inner front cover); notes on the four elements (1r) and on geometry (1v); ***Ptolemaica* (2r–51v)**; Firminus de Bellavalle, *De mutatione aeris* (52ra–90ra); Leopold of Austria, *De astrorum scientia* (90rb–160vb); Pseudo-John of Seville, *Epitome totius astrologie* (165ra–194ra); 'Planeta ad Solem in eodem minuto dicitur coniunctus...' (194ra–194va); Leopold of Austria, *De astrorum scientia*, excerpts from Books V and IV (194vb–212vb); John of Ligneris, *Canones primi mobilis* (214ra–221vb); star table verified 1460, with canons (222ra–222vb); astronomical diagram (223r); albion 'Pro faciliiori modo habendo...' (226ra–230r); 'Compositio pro formatione chilindri per quendam fratrem in monasterio Rischenbach [Reichenbach] composita. Latitudinem regionis et altitudinem capitis Arietis...' (231ra–237va); 'Alius modus. Chilindri quod et horalogium viatorum dicitur...' (237va–241v); note of geometry (242r); 'Nota ad intelligendam vel probandam hanc propositionem, scilicet omnis (!) triangulum habet 38 angulos equales duobus...' (243ra–243va); Campanus of Novara, *Theorica planetarum*, excerpt (245ra–249rb); astronomical notes (249va–250ra); incomplete text on the construction of a 'chilindrum' (250v–251r); John of Saxony, *Canones eclipsium* (257ra–259rb); 'Si autem solaris eclipsis...' (259va–261vb); Prophatius Judeus, *Quadrans novus* (262ra–264rb); 'Altitudo Solis. Cum volueris scire altitudinem Solis...' (264va–267rb); Richard of Wallingford, *Tractatus Albionis* (270ra–303v); astronomical tables (304r–313r); astronomical notes (314r–315r); astronomical notes (316v); Alfonsine star catalogue (317r–328v); astronomical tables, partly incomplete or empty (329r–339v); geometry 'Si vis scire capacitatem vasis...' (340ra–362r); astronomical note (365v); table of lunar mansions (inner back cover). Blank: 5v, 11^{bis}, 65v, 67, 161–164, 213, 216^{bis}, 223v–225v, 226^{bis}–227r, 229r, 230v, 233v, 236r, 238r, 241^{bis}, 242v, 243^{bis}v, 244,

251v–256v, 266^{bis}, 267v–269v, 271^{bis}, 275r, 282v, 286r, 290r, 292r, 294^{bis}, 299–301, 313v, 315v–316r, 330r, 362v–365r.

Bibl. Benjamin/Toomer 1971, 121 n. 8; J North 1976, II, 130–31; Zepeda 2018, 58.

2r–51v ‘<O>mnium recte philosophancium non solum verisimilibus et credibilibus
— tenebrarum sic se habent. Explicit liber sextus minoris Almagesti.’
= *Almagesti minor* (C.1.4). Glosses, possibly by the scribe.

Leipzig, Universitätsbibliothek, 1484

s. XV² (revolution horoscopes for 1470–1475 f. 101r; the year 1461 mentioned f. 105v). **Or.:** Germany.

Paper, 280 f., one main hand.

Astronomy and astrology: computus tables (1v–2r); calendar (3r); astronomical and astrological notes (3va–7rb); Alfonsine tables and other astronomical tables (9r–105r); text on revolutions, in German (105v–107v); ‘De modo componendi almanack’ (113r); horoscope: nativity of someone born on 27 January 1422 (113v); John of Ligneres, *Canones primi mobilis* (115ra–123va); John of Saxony, *Canones* (127ra–143rb); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (143rb–144va); ‘Est quoque in signis diversitas sexus quia quedam signa dicuntur masculina...’ (144va–144vb); astrological tables: 12 signs and 360 degrees (145r–146v); ‘Cum Luna sit universalis significatrix omnium initiorum...’ (147ra–148va); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (148vb–153ra); astronomical tables (154r–192v); Alcabitius, *Introductorius* (193r–217r); ‘Notandum quod planete dicuntur orientales vel occidentales respectu Solis...’ (217v–220v); *Liber de effectibus planetarum* ‘Quoniam unusquisque planetarum habet amicum et inimicum...’ (221r–224v); ‘Hoc ad horologium 12 horarum per diem et totidem per noctem...’ (224v–226v); astronomical notes ‘Notandum quod Ptholomeus dividit totam terram habitabilem in quatuor partes...’ (228v); astrological figures and tables summarising the basic doctrines (229r–232r); Albumasar, *De electionibus liber* (232r–239r); ‘Quando venus fuerit elevatus supra Mercurium...’ (239r–239v); ‘Dixit Ableta filius Zahet Silitus (?) et Albumasar homo non potest cogitare vel facere aliquid...’ (239v–240r); ‘Quando sit optimum omne opus ad faciendum absconsum prospiciatur signum quod emergitur...’ (240v–241r); *lunarium* ‘Sequitur ... (?) generalis modus astronomorum de etate Lune. Luna prima, factus est Adam, quidquid aliquid fecerit bonum...’ (241r–241v); ‘Sciendum quod aliquando planete dicuntur stationarii...’ (241v–242r); ‘Tempus quarti aspectus Solis et Lune invenire...’ (242ra–242vb); Robertus Anglicus, comm. on Sacrobosco’s *De sphaera* (244ra–256vb); Messahallah, *Epistola de rebus eclipsium* (257ra–259rb); Alkindi (?), *Saturnus in Ariete sub radiis...* (259rb–260vb); Guillelmus Anglicus, *De urina non visa* (260vb–263vb); *Astronomia Ypocratis* (263vb–267rb); ‘Consideratio astrologica. Quando Luna comburitur, vide si illam aspiciat Saturnus...’ (267rb–267va); Peter Peregrinus of Maricourt, *De magnete* (267va–271va); Pseudo-Thebit Bencora, *De motu octave spere* (271va–273rb); ‘Nota quod Sol in emisperio australi et Venus sub radiis eiusdem...’ (273va–276va); *Ptolemaica* (276va–278ra). Blank: 1r, 2v, 7v–8v, 108–112, 114, 124–126, 153v, 227r–228r, 243, 278v–280v.

Bibl. Kristeller 1963–1992, III, 420; F. Pense, *Verzeichnis der deutschen mittelalterlichen Handschriften in der Universitätsbibliothek Leipzig*, Berlin, 1998, 191; Lemay 1999, I, 420; Moulinier-Brogi 2011, 213.

276va–278ra ‘De Centilogio Ptholomei. Anima naturata iudicat super secundis a stellis — quia non operabitur aliquis nisi quod diligit.’
= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, ‘**Mundanorum**’ version (C.3.1.3), v. 4–5, 8–9, 13, 19–21, 45, 61, 50, 63, 74, 86 (same in MS → Cracow, BJ, 551). No glosses.

Leipzig, Universitätsbibliothek, 1491

s. XV. **Or.**: Germany (recipes in German f. 142r–143v).

Paper, 301 f., several hands. A folio is missing between f. 140 and 141 and one or several folia are missing after f. 141v (see below).

Astrology: Raymundus Lullus, *Tractatus novus de astronomia* (2r–81r); Raymundus Lullus, *Ars compendiosa* (86r–92v); ‘Diffinitur autem aliud (?) secundum duas partes sive species ipsius breviter ac contemplativam scilicet et activam que sunt astrologia et astronomia...’ (98r–98v); **Ptolemaica** (99r–99v and 100r); Albumasar, *Flores* (100v–115v); Hermann of Carinthia, *Liber imbrum* (115v–120v); **Ptolemaica** (124ra–141vb); recipes in German (142r–143v); Leopold of Austria, *De astrorum scientia* (144r–300v). Blank: 1 (except a horoscope with geomantic figures f. 1r), 81v–85v, 93–97, 121–123, 301.

Bibl. Kristeller 1963–1992, III, 420; Markowski 1990, 314; Lemay 1999, I, 344–45.

124ra–141vb, 99r–99v, 100r ‘Mundanorum ad hoc et ad illud mutacio corporum celestium... Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... (124rb) Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — (141va) quanto melius quivimus exposuimus. Ptolomeus in hoc loco tricas et tricarum nomina posuit... (141vb) Stelle cum caudis sunt 9... ad modum argenti (100r) purissimi quod non potest — in regibus et divitibus apparebit. Et hec de cometis breviter distinximus. Nunc de conceptus et nativitatis hora dicendum est. Dixerunt Ptholomeus et Hermes quod Lune locus in hora qua — et hoc expertus fuit multotiens. Sic faciunt ascendentem secundum herum uranicum.’
= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, ‘**Mundanorum**’ version (C.3.1.3). The lost folio between f. 140 and 141 contained v. 90–96 and another hand supplied the missing section on f. 99r–99v. Another folio was lost after f. 141 and the same other hand supplied the missing section, i.e., the end of Pseudo-Ptolemy’s *De cometis* (B.4) and *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 100r (see below). A few marginal notes by the scribe. Substantial marginal notes in another hand f. 124r.

- 141va, 100r 'Ptolomeus in hoc loco tricas et tricarum nomina posuit... (141vb) Stelle cum caudis sunt 9... ad modum argenti (100r) purissimi quod non potest — in regibus et divitibus apparebit. Et hec de cometis breviter distinximus.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.
- 100r 'Nunc de conceptus et nativitatis hora dicendum est. Dixerunt Ptholomeus et Hermes quod Lune locus in hora qua — et hoc expertus fuit multotiens. Sic faciunt ascendentem secundum herum uranicum.'
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). No glosses.

Limoges, Bibliothèque Municipale, 9 (28)

s. XV. **Prov.:** Limoges, church Sainte-Valérie (f. 1r).

Paper, 294 f., a single hand or, perhaps, two similar hands. Three or four folia are missing between f. 23 and 24.

Astrology: Abraham Avenezra, *Liber rationum II*, tr. Henry Bate of Mechelen, end gone (1r–23v); Abraham Avenezra, *Liber rationum I*, tr. Henry Bate of Mechelen, beginning gone (24r–44r); Cosmas of Alexandria, *Introductorius in astrologiam* 'Cosme Alexandrini philosophi et scolastici liber introductorius ad astrologiam. Intentionem habemus ea que videntur astrologis sed potius veritati investigare pro posse...' (44v–51v); Henry Bate of Mechelen, *De diebus creticis periodorumque causis* (51v–65v); Abraham Avenezra, *De luminaribus*, tr. Henry Bate of Mechelen (66r–71v); Guillelmus Anglicus, *De urina non visa* (71v–75v); Abraham Avenezra, *De terminatione morborum* (75v–79v); 'Ut dictum in commento super librum Ypocratis de diebus creticis...' (79v–84r); Abraham Avenezra, *Principium sapientie*, tr. Pietro d'Abano (84v–115v); Sadan, *Excerpta de secretis Albumasar* (115v–124v); Roger of Hereford, *Liber de tribus generalibus iudiciis astronomie* (124v–128v); 'Iacobus Alkindi de militia seculi. Scientia astrorum dividitur in duo, in demonstrationes que sunt certe...' (128v–135v); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen (135v–143v); ***Ptolemaica* (144r–269r and 272r–289r)**; Hermes, *Centiloquium* (289v–291v); added table of contents (291v); added astrological notes (292r and 293r–294v). Blank: 269v–271v, 292v.

Bibl. CGMB, IX, 454–56; Lemay 1999, I, 302–11; Moulinier-Brogi 2011, 214; C. Steel, 'A Newly-Discovered Treatise from the School of Alexandria. Cosmas of Alexandria: *Introductorius in astrologiam*', *Byzantion* 90 (2020), 321–96: 321–23; S. Sela, *Abraham Ibn Ezra Latinus. Henry Bate's Latin Versions of Abraham Ibn Ezra's Astrological Writings, with English Translation and a Collation with the Hebrew and French Source Texts*, Leiden-Boston, 2022, II, 1104–06.

- 144r–269r '<S>cire et intelligere gloriosum est quia omnis sapientia est a Deo... (144v) Tractatus primus glose Haly super prima parte libri quadrip<ar>titi Tholomei Pheludiani. Dixit Haly: Verba que dixit sapientissimus Ptholomeus in arte iudiciorum... (146v) Primus tractatus capitulum primum de divisione

astrologie. Res, Misori, quibus perficiuntur prenosticationes accepte de astronomia maiores et nobiliores sunt due — (265v) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Volo in hoc loco dare tibi exempla trium nativitatum ut melius intendas quicquid locuti sumus in eis, et prima est nativitas mea — et Deus te dirigit in viam rectam. Explicit Quadrip<ar>titum Ptho<lome>i.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 144r–144v; Haly’s preface, 144v–146v; I, 146v–178r; II, 178r–209v; III, 209v–243v; IV, 243v–265v; Haly’s appendix, 265v–269r. Glosses by another hand.

- 272r–289r ‘<D>ixit Ptho<lome>us: Iam scripsi tibi, id est in Quatrip<ar>tito (!), Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est... Mundanorum mutatio ad hoc et ad illud corporum supracelestium... Doctrina stellarum ex te que ex illis est. Nec est doctrina vita ut prophetet formam... Quod dixit Ptho<lome>us, ex te et illis est, significat quod qui res futuras desiderat scire — Et ego Deum deprecor ut te dirigat. Perfecta est huius libri translatio 17^a die mensis Marcii, secunda die mensis Gunedi (?) secunda anno Arabum 532^o, alibi 309^o. Explicit.’
- = **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). No glosses.

Linköping, Stift- och Landsbiblioteket, Cod. Matematik 9

s. XVI. **Or.:** Italy. **Prov.:** bought by Eric Benzeliu in Paris (1700).

Paper, 160 f., a single hand, decorated initials.

Astrology: ***Ptolemaica* (2r–153v)**; George of Trebizond, *Liber de antisciiis* (154r–157r, incomplete ‘... vel ut verius dicam exiliores’); table of contents (158r–159v); Petrus Bonus Advogarius, zodiacal chorography ‘Civitates Arieti subiectae. Florentia, Faventia, Neapolis...’ (160r–160v). Blank: 1, 157v.

Bibl. P. Kylander, *Linköpings Biblioteks Handlingar*, II, Linköping, 1795, 155–56 (no. LXVIII); Kristeller 1963–1992, V, 5; Rinaldi 2002, 111 (no. 10).

- 2r–153v ‘Ioannis Ioviani Pontani liber primus commentationum in centum sententiis Ptholomei ad ill<ustre>m principem Foedericum ducem Urbini foeliciter incipit. Tametsi publicarum rerum administratio, bellique gerendi cura deterere me iure possent, Foederice dux fortissime... (3r) De mathematici officio et quid est. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronuntiet... Nec medici, nec morales (!) philosophi sola est cognitio, sed quaedam etiam operatio — tum stellarum radii vel trahentes eas, vel impellentes pro qualitate aspectus et virium efficatia. Τελος.’

= Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16). Short marginal corrections and notes by the scribe and/or a similar hand.

London, British Library, Additional 10362

s. XIV² (probably copied in 1366–1367, cf. f. 14–25, and horoscope for a past conjunction Sun-Moon of 9 July 1366 f. 46r). **Or.:** England, probably Oxford (cf. f. 39v and tables for latitude 52° f. 47r–48r and 57–59). **Prov.:** British Museum in 1836.

Parchment, 120 f., one main hand (except for f. 71 and 114–120).

Astronomy, astrology and geomancy: astronomical notes (1r–2r); table of contents (3r–5r); astronomical tables (6r–31v), including a planetary almanac for 1367–1390 (14r–25v); Perscrutator, *De impressionibus aeris*, second part (32r–35v); *Ptolemaica* (36r–37r); ‘In prognosticationibus primo sciatur locus Solis et hora temporis et minutum hore — Ista et multa consimilia probat **Pthomeus** (!) in suo Centilio (!) et etiam Haly in commento eiusdem littere’ (37v–38r); astronomical-astrological diagram (38v–39r); table ‘Pro equatione domorum ad latitudinem 52 gradus, quod est Oxonie’ (39v); ‘Albumasar de floribus. Capitulum in scientia gravitatis et levitatis annone...’ (40r–40v); Pseudo-Aristotle, *Iudicia* (41r–46r); astronomical tables and calendar (47r–59v); Pseudo-Aristotle, *Iudicia*, second part (60r–70v); ‘Sicut Hermes dicit ex hora conceptionis potest haberi hora nativitatis...’ (70v); *Sortes regis Amalrici*, fragment (71r); ‘Quisquis curam habere cupit de geomantia...’ (71v); ‘Desiderantibus verum et certum iudicium dare secundum gloriosam et venerabilem geomantie scientiam. Primo et precipue videat...’ (72r–107v); onomancy ‘Tabula Aristotelis quam scripsit Alexandro regi magno...’ (107v–110v); ‘De nigromantia dicit Amfulsus...’ (111r–112v); sphere of Apuleius/Pythagoras (113r); fragment of a text of astronomy and computus (114v–119v). Blank: 2v, 5v, 28v, 46v, 113v (except for enigmatic notes and drawings, added), 114r, 120 (unfinished astronomical figure f. 120r).

Bibl. *List of Additions to the Manuscripts in the British Museum in the Years MDCCCXXXVI–MDCCCXL*, London, 1843, Year 1836, 32.

36r–37r ‘Ad cognoscendum per signum in firmamento serenitatem vel obscuritatem in die per Solem et nocte per Lunam... Ptholomeus: Quia quando Sol etc. Haly: Claritas Solis qui ascendit et occidit — demonstrat quod accidens continget per eum. Ista multociens videas et cito scies ea naturaliter et perfecte.’
= Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2), II.13. No Glosses.

London, British Library, Additional 10775

s. XVI² (after 1546). **Prov.:** British Museum in 1837.

Paper, 332 f., a single hand. Most (all?) texts in this MS were copied on early printed editions.

Astrology: table of contents (1r); Albohali, *De nativitatibus*, tr. Johannes Toletanus (2r–69r); **Ptolemaica (70r–71r)**; Messahallah, *De significationibus planetarum in nativitate* (72r–89r); Messahallah, *De cogitatione* (89r–91v); Leopold of Austria, *De astrorum scientia* (92r–290v); **Ptolemaica (291r–297v and 298r–329r)**; Pseudo-Aristotle, *De Luna* (329r–330v); **Ptolemaica (330v–332v)**. Blank: 1v, 69v, 72v.

Bibl. *List of Additions to the Manuscripts in the British Museum in the Years MDCCCXXXVI–MDCCCXL*, London, 1843, Year 1837, 13.

- 70r–71r ‘Trictura (!) Hermetis. Dixit Ptholomeus et Hermes quod locus Lune — et ubi eam inveneris, erit ascendens nativitatis.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.
- 291r–297v ‘Inferiora corpora reguntur a superioribus, ut patet per astrologos et sapientes... (291v) Natus sub Ariete, a medii Mercii usque ad medium Aprilis, erit magna industrie — isti fideliter vivent tam vir quam mulier. Et hec nobis dicta tanquam pro nunc sufficiant. Deo gratias.’
= **Pseudo-Ptolemy, *De nativitatibus hominum* (B.11)**. No glosses.
- 298r–329r ‘Sacritissime astronomie Ptholemei liber diversarum rerum. (299r) Incipit liber diversarum rerum Ptholomei. Signorum alias utrum masculini generis, alia feminini. Masculini ut Aries, Gemini, Leo — Mars piper, scuta et arma.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**, copied on ed. Venice 1509. No glosses.
- 330v–332v ‘De mutatione aeris. Ut autem de temporum mutatione par(331r)ticulariter nosse verum desideraveris, regule que iam dicuntur ab animo tuo non labantur. Prima dies mensis Septembris, Icarus, custos plaustris, apparet — apparet et Cistos yda efre (?) desunt, et sic est finis Cionis, id est Canis, ante unam diem. Finis.’
= **Pseudo-Ptolemy, *De temporum mutatione* (B.12)**, copied on ed. Venice 1509. No glosses.

London, British Library, Additional 16566

s. XV^{ex} (computus table for 1476–1495 f. 4r). **Or.:** Italy. **Prov.:** British Museum in 1847.

Paper (except f. 1–3, on parchment), 19 f., several hands.

Scientific texts in Italian and in Latin, including **Ptolemaica (10ra–10vb)** between a text on stones in Italian (5ra–9v) and Pliny’s *De presagiis temporum* in Italian (11ra–12va).

Bibl. *Catalogue of Additions to the Manuscripts in the British Museum in the Years MDCCCXLVI–MDCCCXLVII*, London, 1864, 280; Kristeller 1963–1992, IV, 101.

- 10ra–10vb ‘Incipiunt imagines Albumasar. <I>magines Albumasar qua omnes orientales operantur et non curant de aliis sed observant ut sit Luna boni aspectus et alii planete dum operantur et provenit ad effectum intendentis. Aries cum

eiusdem horiscopo (!). Cum volueris ligare latrones ut non intrent domum, figurabis imaginem viri exere cum ascenderit prima facies Alhamel — Aquarius et eius hor<iscopo>. Edite sunt iste super facies signorum. Unde qui voluerit operari provideat ut operetur illud cum Luna fuerit in ascendente, facie ex signo et accipiat locum fortune. Finis.’

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, missing the signs of Aquarius and Pisces. No glosses. The text is followed by eight lines of recipes in Italian ‘Olio de ovi vale chome appare...’

London, British Library, Additional 22808

s. XV^{med} (c. 1450). **Or.:** Germany (texts in German, f. 1r and 41v–52r). F. 1r contains a note in German by Sifridus Schleint of the monastery of Amorbach (Bavaria) relating the war between Adolf von Nassau, bishop of Speyer, and Ruprecht, duke of Heidelberg, in 1372. **Prov.:** Guglielmo Libri (d. 1869); British Museum in 1859.

Paper (except f. 1, parchment), 60 f., several hands, one of which copied f. 24–41.

Astrology and astronomy: table of contents (1v); Manilius, *Astronomica* (2r–11v); canons of Alfonsine tables (12ra–23rb); ***Ptolemaica* (24ra–41ra)**; two short notes ‘Astronomia syderum sic diffinitur: Est astrorum lex...’ and ‘Astrologia vero est duplex, scilicet naturalis et supertitiosa...’ (41ra); Sacrobosco, *De sphaera*, in German (41v–52r); astronomical tables (53r–60r). Blank: 23v, 52v, 60v.

Bibl. G. Libri, *Catalogue of the Extraordinary Collection of Splendid Manuscripts, Chiefly upon Vellum, in Various Languages of Europe and the East, Formed by M. Guglielmo Libri, The Eminent Collector, who is obliged to leave London in consequence of ill health, and for that reason to dispose of his Literary Treasures*, London, 1859, 141–42 (no. 646); *Catalogue of Additions to the Manuscripts in the British Museum in the Years MDCCCLIV–MDCCCLX*, London, 1875, 737; Kristeller 1963–1992, IV, 77; Lemay 1999, I, 228–29.

24ra–41ra ‘Incipit Centilogium Ptho<lomei>. Iam premisi libros in quibus tractavi de impressionibus planetarum in hoc mundo... Scientia astrorum ex te et ex illis est, nec convenit peritum... (24rb) Quod dixit Ptholomeus, ex te et illis, significat quod qui res futuras prescire — acciditque in Egipto tunc quicquid dixit Ptholomeus. Hoc est quod ego volui exponi in hoc libro. Perfecta est eius expositio. Deo gracias. Explicit Centilogium Ptholomei cum commento Abugafari conscriptum.’

= **Abuiafar Hamet filius Joseph, *(Commentum in Centiloquium)*, ‘Iam premisi’ version (C.3.1.4)**. No glosses.

London, British Library, Arundel 88

s. XV^{ex}–XVIⁱⁿ (between 1484 and the early years of the 16th c.). **Or.:** astrologer’s handbook of Giovanni Battista Boerio, student in Pavia in 1484 and, from 1504 onwards, physician to

Henry VII and Henry VIII in London (f. 26v: 'Explicit Meseala de revolutione annorum mundi excopiatu per me Iohannem Baptistam Borrium de Tabia (?), artium, medicine et astrologie studente, 1484 die 24 Septembris').

Paper, 133 f. (with many unnumbered blank folia), one main hand (Giovanni Battista Boerio), including for the Ptolemaic section.

Astrology and astronomy: John of Bruges, *Tractatus de astrologie veritate* (1r–15r); John of Legnano, judgement on the great conjunction of 1365 (15r–16v); 'De coniunctione Saturni et Iovis in triplicitate ignea' (17r); Messahallah, *De revolutionibus annorum mundi* (18r–26v); *Liber Alchandrei*, ch. 34 (27r); Gabriel Pirovanus (?), prognostication for 1484 (28r–29v); Giovanni Battista Boerio (?), judgement on a nativity of 12 June 1459 (30r–33v); star table (34r–34v); astronomical-astrological notes (35r); 'De electionibus. Ei qui vult tacuinum annuarium seu almanak de electionibus componere...' (35v–37r); Sacrobosco, *Computus* (38r–39r, excerpt); John of Ligneris, *Canones primi mobilis* (39v–46v); astronomical tables (47r–50r); tables: points of essential dignities of each planet in each of the 360° (51r–53v); 'De domino orbis ex summa Toletana (immo ex summa Anglicana Iohannis Esquidi [John of Eschenden], potius)' (54r–54v); **Ptolemaica** (55r); end of a text on the plague, partly astrological (56r–56v); Pseudo-Aristotle, *Secretum secretorum*, excerpt on physiognomy 'Tractatus de physiognomia. Abrevatio phisionomie. Discipuli Ypocratis sapientis...' (57r–58r); 'De chiromancia tractatus. Ciromantia est ars demonstrans mores...' (59r–66r, preceded by drawing of hands f. 58v); Guillelmus Anglicus, *De urina non visa* (67ra–69ra); Zael, *Quinquaginta precepta* (69rb–70va); Bartholomew of Bruges (?), *De prognosticatione morborum per crisim et alia signa*, incomplete (71r–86v); Petrus de Sancto Audomaro, *Tractatus de semissis*, ch. 1 (87r–88v); *Capitula Almansoris* (89r–93r); 'De revolutione annorum mundi' (93v); Zael, *Quinquaginta precepta*, ch. 1–47 (94r–94v and 96r–97r); judgement on an interrogation 'Iudicium de quaestione quadam' (95r–95v); three examples of judgements on nativities 'Iudicium docti cuiusdam de nativitate quorundam' (98r–105r); 'De electionibus' (106r–106v); medical recipes (107r–108r); Giovanni Battista Boerio (?), judgement on the nativity of Battista II Campofregoso, doge of Genoa from 1478 to 1483 (108v–122r); Battista Piasio of Cremona, judgement on the nativity of Giovanni Baptista Colis of Cremona, born on 14 May 1471 (dated 1491) (123r–125v); collection of horoscopes and interpretations concerning Henry VIII and his family (125v–133v). Blank: 27v, 37v, 49v, 50v, 55v, 66v, 122v.

Note: the text f. 17r reads 'De coniunctione Saturni et Iovis in triplicitate ignea. Nil (?) magis, ut dicit **Ptholo<meus>** in Centi<loquio> prepositione (!) 93, eo quod due planete superiores ad principium Arietis convenient — in hoc seculo redundabunt natura namque.'

Bibl. *Catalogue of Manuscripts in the British Museum, New Series*, vol. I, part 1: *The Arundel Manuscripts*, London, 1834, 23; A. G. Watson, *Catalogue of Dated and Datable Manuscripts c. 700–1600 in the Department of Manuscripts. The British Library*, London, 1979, I, 89 (no. 437); Pedersen 1983–1984, II, 653; Kristeller 1963–1992, IV, 127; Juste 2007, 323; Moulinier-Brogi 2011, 215–16; M. Azzolini, *The Duke and the Stars. Astrology and Politics in Renaissance Milan*, Cambridge (Mass.)-London, 2013, 29–40 and 48–49.

55r 'Aphorismus 51 Ptolom<ei> explicatur. Locus Lune in nativitate est ipse gradus de circulo hora casus spermatis et locus Lune hora casus spermatis

est gradus ascendentis hora nativitat. Super prima propositione, que est 51 Centiloquii, nota quod dixit Ptholomeus et Hermes quod locus Lune hora qua infuditur — et ubi inveneris erit ascendens nativitat, et tunc fuit ibi Luna hora casus spermatis et parum erit erroris in hoc. Dixit magister Abraham: Ascendens gradus infusionis — expertus fuit multociens.’

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, preceded by the proposition of v. 51 of the *Centiloquium* in Plato of Tivoli’s translation (C.3.1.1). The last paragraph (‘Dixit magister Abraham...’) was copied in the margin by the scribe (Giovanni Battista Boerio). No glosses.

London, British Library, Arundel 268

s. XIV (for f. 1–74; f. 75–103 date from the late 12th or early 13th c.). **Prov.:** Carthusian monastery at Mainz, at least for f. 1–40 (cf. ex-libris f. 1r: ‘Liber Carth. Mogu<n>c<ie>’, in a 14th or 15th c. hand); Henry Howard (d. 1684), who bequeathed the MS to the Royal Society; acquired by the British Museum in 1831.

Parchment (paper for f. 75–103), 103 f. Composite MS made of three parts (I: f. 1–40, a single hand; II: f. 41–74, two or three neat hands; III: f. 75–103, a single hand).

Astrology and astronomy: Sacrobosco, *De sphaera* (1ra–7va); Alcabitius, *Introductorius* (7vb–23va); **Ptolemaica (23va–40ra, 40ra–40rb and 40rb–40va)**; Prophatius Judeus, *Quadrans novus* (41ra–44va); *Theorica planetarum Gerardi* (44vb–49ra); Pseudo-Messahallah, *De compositione astrolabii* (49ra–61rb); Pseudo-Thebit Bencora, *De motu octave spere* (61rb–63va); **Ptolemaica (63va–65va)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (65va–66rb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (66rb–67rb); Johannes de Harelbeke, *Tractatus de spera solida*, incomplete (67rb–74vb); *Liber trium iudicum*, beginning only (75ra–84vb); *Aratus Latinus*, revised version, incomplete (85ra–92rb); Virgil, *Bucolica*, excerpt ‘Sepe malum hoc nobis...’ (92v–95v); Germanicus, *Aratea* (96r–103v). Blank: 57r.

Bibl. *Catalogue of Manuscripts in the British Museum, New Series*, vol. I, part 1: *The Arundel Manuscripts*, London, 1834, 79–80; Lemay 1999, I, 299; R. Lemay, ‘Nouveautés fugaces dans des textes mathématiques du XII^e siècle. Un essai d’*abjad* latin avorté’, in *Sic itur ad astra. Studien zur Geschichte der Mathematik und Naturwissenschaften. Festschrift für den Arabisten Paul Kunitzsch zum 70. Geburtstag*, eds M. Folkerts, R. Lorch, Wiesbaden, 2000, 376–91: 384–90.

23va–40ra ‘<D>ixit Pto<lome>us: Iam scripsi, tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... <S>ciencia stellarum ex te et illis... (23vb) Quod dixit Pto<lome>us, ex te et illis, significat quod res futuras qui prenoscere — et ego Deum precor ut te dirigat. Amen. Explicit Centiloquium Pto<lome>i.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. Marginal and interlinear glosses by a later hand (15th c.?) f. 23va.

- 40ra–40rb ‘Dixit Pto<lomeus>: Stelle caudate sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.
- 40rb–40va ‘Dixit magister Abraham Isbendeut: Gradus infuxionis (!) spermatiss non erit ex toto locus — expertus est multotiens. Dixit Pto<lomeus> et Hermes quod locus Lune in hora qua infunditur — erit ascendens nativitatis. Explicit. Amen. Deo gratias. Aleluia.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses, but the text is followed, on f. 40vb, by a long note in a later hand (15th c.).
- 63va–65va ‘Incipit liber Thebit de hiis que indigent expositione antequam legatur Almagesti. Quatuor (!) diei est circulus maior qui describitur super duos polos orbis — propinqui oppositioni erunt retrogradi. Expletus est liber Tebit filii Core de hiis que indigent expositione antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

London, British Library, Arundel 339

s. XII^{ex} or XIIIⁱⁿ. **Or.:** southern Germany, perhaps the monastery St Peter of Kastl in Bavaria, where the MS was to be found soon after 1222, cf. list of the first seven abbots ‘huius loci’ from Altmannus (d. 1130) to Gebhardus (d. 1222) f. 151v. **Prov.:** Henry Howard (d. 1684), who bequeathed the MS to the Royal Society; acquired by the British Museum in 1831.

Parchment, 153 f., a single hand. One or several folia are missing between f. 68 and 69.

Scientific texts of the early Middle Ages: diagram on the classification of knowledge and astronomical diagrams (1r); Boethius, *De arithmetica* (1v–31r); mnemonic verses on arithmetic and computus (31v–36r); *Proportiones competentes in astrorum industria* (36v–40v); Gerbert of Aurillac (?), *Isagoge geometriae* (41r–49r); Pseudo-Boethius, *Geometria II* (49r–59r); Hugh of St Victor, *Practica geometrie* (59r–68r); sphere of Petosiris (68r–68v); **Ptolemaica** (69r); Calcidius, *Timaeus*, excerpts (69v–71r); Hyginus, *De astronomia* (71v–89v); ‘Liber de wazalchora. Spera **Ptolomei**, quam astrolabium vel astrolapsus potius wazalchora, id est planam speram, appellamus...’ (90r–97v); Guido of Arezzo, *Micrologus* (98r–104r); other treatises of music (104r–110r); Calcidius, *Timaeus*, excerpts (110v–120v); Macrobius, *Commentarii in Somnium Scipionis* (121r–151r); astronomical text (152va–152vb); Pliny’s apsidal diagram (153r). Blank: 152r, 153v (except an unfinished astronomical figure).

Bibl. *Catalogue of Manuscripts in the British Museum, New Series*, vol. I, part 1: *The Arundel Manuscripts*, London, 1834, 101–02; Saxl 1915–1953, III.1, 93–98; J. Smits van Waesberghe, *Guidonis Aretini Micrologus*, s.l., 1955, 30–31; M. Folkerts, ‘Boethius’ *Geometrie II*. Ein mathematisches Lehrbuch des Mittelalters, Wiesbaden, 1970, 18–19; S. Krämer, *Handschriftenerbe des deutschen Mittelalters*, I, München, 1989, 389; Kristeller 1963–1992, IV, 671; Meyer/Huglo 1992, 66–67; L. Toneatto, *Codices Artis Mensoriae. I manoscritti degli antichi opuscoli latini*

d'agrimensura (V–XIX sec.), Spoleto, 1994–1995, III, 1144–1149; *CBM*, I, 122–23; Juste 2007, 323–24; Blume/Haffner 2012–2016, I.1, 302–07.

- 69r 'Regula perfectissima, archanissima, divinissima, in qua satis laboravit Pitagoras et Ptolomeus — sequentem intueri inscriptionem' (followed by tables).
= **Pseudo-Ptolemy**, *Canon Ptolomei et Pictagore de diversis eventibus secundum naturas planetarum* (B.18). No glosses.

London, British Library, Burney 275

s. XIII^{ex}–XIVⁱⁿ (before 1316). **Or.:** Paris, MS illuminated by the so-called 'Mélicin Master' and given by Franciscus Caracciolo, chancellor of the University of Paris (1309–1316), to Robert of Anjou, king of Naples (1309–1343), cf. erased note f. 2r (repeated f. 561v): 'Liber diversarum (?) liberalium artium quem dedit domino regi R. dominus Franciscus Carachioli, cancellarius Parisiensis.' Franciscus Caracciolo was from Naples and 'King R.' must refer to Robert of Anjou. For this reason, Stones (p. 86) dates the MS to 1309–1316. If, however, the period of activity of the 'Mélicin Master' was c. 1280–1300, as generally assumed, the possibility remains that the MS was prepared earlier and originally intended as a gift for someone else, perhaps a member of the French royal family. **Prov.:** (besides Franciscus Caracciolo and Robert of Anjou) Gregory XI (d. 1378); Clement VII (d. 1394), who gave the MS to Jean, duke of Berry (d. 1416) in 1387; cathedral of Albi; Count Justin de MacCarthy-Reagh (d. 1811); Charles Burney (d. 1817); acquired by the British Museum in 1818.

Parchment, 561 f. Large (410 × 285 mm) deluxe MS copied by a single very neat hand with sumptuous decoration, including large painted initials at the beginning of each section.

Liberal arts: table of contents, 17th or 18th c. (1v); various ex-libris (2v); Priscian, *Institutiones grammaticae* (2r–119vb); Cicero, *De inventione* (120ra–143ra); Pseudo-Cicero, *Rhetorica ad Herennium* (143rb–165vb); Porphyry, *Isagoge*, tr. Boethius (166ra–169va); Aristotle, *Categoriae*, tr. Boethius (169vb–176rb); Aristotle, *De interpretatione*, tr. Boethius (176va–180rb); Gilbert de la Porrée, *De sex principiis* (180va–183vb); Aristotle, *Analytica priora*, tr. Boethius (184ra–205ra); Aristotle, *Analytica posteriora*, tr. Boethius (205rb–218va); Aristotle, *Topica*, tr. Boethius (218va–244ra); Aristotle, *De sophisticis elenchis*, tr. Boethius (244va–252rb); Boethius, *De divisione* (252va–256va); Boethius, *De topicis differentiis* (256vb–265ra); Boethius, *De hypotheticis syllogismis* (265rb–278ra); Boethius, *De categoricis syllogismis* (278ra–288r); Cicero, *Topica* (288va–292vb); Euclid, *Elementa*, version 'Adelard II' (293ra–335rb); Boethius, *De arithmetica* (336ra–359rb); Boethius, *De musica* (359va–390rb); **Ptolemaica** (390va–560vb). Blank: 1r, 2r, 335v.

Bibl. *Catalogue of Manuscripts in the British Museum, New Series*, vol. I, part 2. *The Burney Manuscripts*, London, 1840, 69–70; Delisle 1868–1881, I, 67; *ALC*, I.1, 378–79 (no. 298); M. Passalacqua, *I codici di Prisciano*, Roma, 1978, 140–41 (no. 318); H. L. L. Busard, *The First Latin Translation of Euclid's 'Elements' Commonly Ascribed to Adelard of Bath: Books I–VIII and Books X.36–XV.2*, Toronto, 1983, 25; Kristeller 1963–1992, IV, 133; Kunitzsch 1986–1991, II, 14; Busard/Folkerts 1992, I, 53–54; *CBM*, I, 130–31 (no. 106); H. L. L. Busard, *Johannes*

De Tinemue's Redaction of Euclid's Elements. The So-Called Adelard III Version, Stuttgart, 2001, 2 vols, I, 20–21 (no. 3); A. Stones, *Gothic Manuscripts 1260–1320*, I.2, London-Turnhout, 2013, 85–87.

390va–560vb ‘Quidam princeps nomine Albugaue in libro suo quem scienciarum electionem et verborum nominavit... (391ra) Bonum fuit scire quod sapientibus non deviantibus visum est — et abbreviacionem arrogantiam et collaudacionem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Expleta est dictio XIII^a libri Ptholomei et cum ea completur liber Almagesti de disciplinabilibus. Laus Deo. Amen.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 390va–391ra; I, 391ra–404ra; II, 404ra–424ra; III, 424rb–435rb; IV, 435rb–449ra; V, 449rb–464ra; VI, 464ra–476vb; VII, 476vb–487r; VIII, 487r–496vb; IX, 496vb–513vb; X, 513vb–524ra; XI, 524ra–538vb; XII, 538vb–550ra; XIII, 550ra–560vb. No glosses.

London, British Library, Cotton Appendix VI

s. XIII^{ex}–XIVⁱⁿ (c. 1300). **Or.:** probably Paris for f. 1–108 (Stefan Georges, private communication). **Prov.:** John Marsham, son of Sir John Marsham (1602–1685), who bequeathed the MS to the Cotton library.

Parchment, 196 f., two hands (f. 1–108 and 109–196).

Astrology and astronomy: table of contents, 17th c. (1v); Guillelmus Anglicus, *De urina non visa* (2ra–5ra); *Astronomia Ypocratis* (5ra–8rb); **Ptolemaica (8rb–20va and 20va–29rb)**; ‘Cum volueris scire in quoto tempore unus planetarum coniungitur alteri...’ (29rb–29va); ‘Capitulum multum notabile in accidentibus nati et de eius fine. Universi philosophi et etiam Ptolomeus dixerunt quia ter recesserunt domini triplicitatis...’ (29va–30ra); ‘Capitulum ad sciendum quid aliquis portat in manu sua in hora interrogationis. Ut scias quid sit illud quod aliquis qui te interrogandum venit fert in manu...’ (30ra–31ra); ‘Nota bene has 6 tabulas que secuntur secundum Alb<umasar>. Lune et Saturni aspectus...’ (31ra–31vb); *Alchandreana* (31vb–45rb); Albumasar, *Flores* (45rb–53rb); Alkindi, *De mutatione temporum* (53va–63vb); *Theorica planetarum*, attr. Alkindi ‘De triplici loco cuiuslibet planete. Cuiuslibet planete assignatur triplex locus... Explicit Iacob Alkindi de theorica planetarum’ (63vb–70ra); canons of Toledan tables (70ra–78va); Alkindi (?), *Saturnus in Ariete sub radiis...* (78vb–80rb); Aomar, *De nativitatibus* (80rb–97va); Messahallah, *De nativitatibus*, tr. Hugo Sanctelliensis (97vb–108va); Alkindi, *Iudicia astrorum*, tr. Robert of Ketton (109ra–162vb); Albohali, *De nativitatibus*, tr. Plato of Tivoli (163ra–196vb). Blank: 1r.

Bibl. *Catalogue of the Manuscripts in the Cottonian Library Deposited in the British Museum*, London, 1802, 614; F. S. Pedersen, ‘A Twelfth-Century Planetary Theorica in the Manner of the London Tables’, *CIMAGL* 60 (1990), 199–318: 204–05; Pedersen 2002, I, 126–27; C. G. C. Tite, *The Early Records of Sir Robert Cotton's Library. Formation, Cataloguing, Use*, London, 2003, 225; Juste 2007, 324–25; Moulinier-Brogi 2011, 216.

- 8rb–20va ‘Liber iste est Aristotelis in scientia ipsius astronomie. Signorum alia sunt masculina alia feminina — nec amici neque inimici. Finit liber de interrogationibus.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**. No glosses.
- 20va–29rb ‘Incipit commentum super premissa, scilicet predictum librum. Artem artium scilicet astronomiam aggredientibus... (21rb) Ptolomeus summus philosophus intendit in hoc opere — tam bonas quam malas querat. Hic terminatur astronomia Aristotelis cum expositione eius.’
= **⟨*Commentum in Iudicia*⟩ (C.4.6)**. No glosses.

London, British Library, Egerton 889

s. XVⁱⁿ (before 1426, except for f. 1–6, which consist of a quire added around the middle of the 15th c.). **Or.:** University of Cambridge, partly copied by John Holbroke (cf. signatures ‘J. H.’ f. 18r, ‘Quod H.’ f. 110r, 120v and 133r, and ‘Holbrook’ f. 150v). **Prov.:** John Holbroke bequeathed the MS to the library of Peterhouse in 1426 (see Roger Marchall’s notes f. 6v: ‘Notandum quod magister Iohannes Holbrook quondam alme universitatis Cantebr<igiensis> cancellarius sacre pagine professor in artibus liberalibus, precipuus in astronomia, tamen peritissimus et magister collegii Sancti Petri Cantebr<igiensis> contulit eidem collegio antedicto in festo sancti Valentini a.d. 1426^{to} hunc librum astronomicum etc.’ and f. 7r: ‘Hunc librum magister I. Holbrook contulit anno domini M^oCCCC^{mo}XXVI^{to}’); Peterhouse, Cambridge; Thomas Gale (d. 1702); Trinity College, Cambridge; James Orchard Halliwell (1820–1889); Thomas Rodd (1796–1840); acquired by the British Museum in 1841. Roger Marchall (d. 1477) copied the table of contents f. 6v and various notes, but the MS did not belong to him (Voigts).

Parchment, 160 f., several contemporary hands.

Astronomy and astrology: astronomical tables (1r–4v); Messahallah, *Liber de intentionibus secretorum astronomie*, preface and chs 1–2 (5r); horoscope: nativity of Henry VI, with notes (5r); table of contents of f. 7–160 by Roger Marchall (6v); *Theorica planetarum Gerardi* (7r–18r); various astronomical tables with canons (18v–160v), including by Simon Bredon, John Maudith, John of Ligneres, John Walter, John of Saxony, William Rede and John Holbroke; ***Ptolemaica* (109r–110r)**; Richard of Wallingford, *Quadripartitum* (121r–133r). Blank: 5v–6r, 53r–54v, 78r, 100v, 110v.

Bibl. *Catalogue of Additions to the Manuscripts in the British Museum in the Years MDCCCXLI–MDCCCXLV*, London, 1850, Year 1841, 65; North 1976, II, 32 and 37–38; L. E. Voigts, ‘A Doctor and His Books: The Manuscripts of Roger Marchall (d. 1477)’, in *New Science out of Old Books: Studies in Manuscripts and Early Printed Books in Honour of A. I. Doyle*, eds R. Beadle, A. J. Piper, Aldershot, 1995, 249–314: 278–79; R. M. Thomson, *A Descriptive Catalogue of the Medieval Manuscripts in the Library of Peterhouse, Cambridge*, Cambridge, 2016, 201–02; C. P. E. Nothaft, ‘John Holbroke, the Tables of Cambridge, and the “True Length of the Year”: a Forgotten Episode in Fifteenth-Century Astronomy’, *AHES* 72 (2018), 63–88: 65–66 and *passim*; J. Chabás, M.-M. Saby, *The Tables of 1322 by John of Lignères. An Edition with Commentary*, Turnhout, 2022, 32–33.

- 109r–110r ‘Dixerunt Ptholomeus et Hermes quod locus Lune in quo erat Luna in hora in qua infunditur sperma est gradus ascendentis nativitatē — et hoc expertus fuit multociens. Nota: Pro inveniēda figura conceptionis nati omnibus aliis pretermisissis, si hora coniunctionis vel preventionis fuerint due planete equales in virtute — Lune vero 9, hec sunt secundum Alkabitium. Quod H.’
 = John Holbroke, *Commentum in Dixerunt Ptholomeus et Hermes* (C.4.8). No glosses. This section, signed ‘H.’, is attributed to John Holbroke in Roger Marchall’s table of contents f. 6v: ‘Ars inveniendi figuram conceptionis nati secundum magistrum Iohannem Holbrook.’

London, British Library, Harley 1

s. XIII¹ (f. 1–46; after 1217, date of the translation of Alpetragius’s *De motibus celorum*) and XIV¹ (f. 47–160). **Or.:** England, probably Oxford for f. 1–46 acc. Barker-Benfield. **Prov.:** John of London, monk of St Augustine of Canterbury (fl. c. 1290–1330); St Augustine of Canterbury; John Dee in 1557 (f. 1v); Sir Simonds d’Ewes (d. 1650); Robert Harley (d. 1724).

Parchment, 160 f. Composite MS made of two parts united by John of London: f. 1–46, copied by three hands (f. 1–23, 24–40 and 41–46), and f. 47–160, copied by one main hand (possibly by John of London acc. Thomson).

Astronomy and astrology: table of contents of the whole MS, end of 15th c. (1v); Alpetragius, *De motibus celorum* (2r–15v); **Ptolemaica** (16r–17r); Thebit Bencora, *De figura sectore*, anonymous tr. (17r–18v); Pseudo-Thebit Bencora, *De anno Solis* (19r–22r); Thebit Bencora, *De figura sectore*, alternative tr. ‘Inter universas geometrice...’ (22r–23v); Albumasar, *Flores* (24r–30v); Albumasar, *De revolutionibus annorum mundi* (31r–40v); geometry ‘Artis cuiuslibet consummatio...’ (41r–46v); Petrus de Dacia, *Expositio super Algorismum* (47ra–55vb); Robertus Anglicus, comm. on Sacrobosco’s *De sphaera* (55vb–63vb); comm. on Sacrobosco’s *Computus* (64ra–70va); **Ptolemaica** (70va–79va); *Ars algorismi de fractionibus* (79vb–80va); Johannes de Puchro Rivo, comm. on Sacrobosco’s *Computus* (80va–85ra); Johannes de Sicilia, *Expositio super canones tabularum Arzachelis sive Toletanarum* (86ra–146rb); John of Jandun (?), *Questio super epicyclis et eccentricis* ‘Quoniam per acquisitionem prime philosophie...’ (146rb–148va); John of St Amand (?), *Questiones mathematicales*, incomplete (149ra–160vb). Blank: 1r, 85v. The MS originally included, after f. 46v, Alkindi’s *De aspectibus*, now in MS Oxford, Corpus Christi Coll., 254, f. 207r–212r (Thomson).

Bibl. CHMB, I, 1; M R. James, *List of Manuscripts Formerly Owned by Dr John Dee*, Oxford, 1921, 19 (no. 28); Watson 1966, 136 (A281); Wright 1972, 370; Pedersen 1983–1984, I, 72; F. S. Pedersen, *Scriptum Johannis de Sicilia super canones Azarchelis de tabulis Toletanis*, København, 1986, 24–25; Kristeller 1963–1992, IV, 154; Roberts/Watson 1990, 114–15 (M28); Pedersen 2002, I, 72; Barker-Benfield 2008, II, 1154–1158 (BA I.1147); Thomson 2011, 133.

- 16r–17r ‘Thebit de hiis que indigent expositione [title added by another hand in upper margin]. Equator diei est circulus maior qui describitur super duos polos orbis — in oppositione Solis aut propinqui oppositioni erunt retrogradi. Explicit.’

= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. A few marginal corrections by a contemporary or somewhat later hand.

70va–79va ‘Hic incipiunt scripta super Centilogium Tholomei [title added in the margin by a contemporary hand]. Sicut dicit Ptholomeus in proverbiiis Almagesti: Non fuit mortuus qui sapientiam vivificavit, nec fuit pauper qui intellectum dominatus est — Ita et ortus istius et ideo non planeta dicenda sunt. Hic satis enim dictum est superius. Deo gratias. Amen. Explicit scripta supra Centilogium Ptholomei edita a magistro Guillermo de Aragona.’
= **William of Aragon, *Scripta supra Centilogium Ptholomei* (C.3.4)**.
No glosses.

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s. XIII^{ex}–XIVⁱⁿ (the predictions of eclipses for 1293–1311, f. 140r–140v, are not unique to this MS). **Or.:** English and northern French hands, except f. 3–16, copied by a southern hand acc. d’Alverny/Hudry; Saint-Quentin mentioned in the predictions of eclipses 1293–1311 (140rb: ‘apud Sanctum Quintinum’), which must be somehow related to William of Saint-Cloud’s *Almanach planetarum* 1293–1311. **Prov.:** John of London, monk of St Augustine of Canterbury (fl. c. 1290–1330); St Augustine of Canterbury; John Dee; Sir Simonds d’Ewes (d. 1650); Robert Harley (d. 1724).

Parchment, 242 f., several neat hands (I: f. 3–16, II: f. 17–25 and 117ra–124vb, III: f. 26–117ra [tables possibly by another hand; first lines of f. 117ra, then continued by hand II], IV: f. 124vb–198r (similar to hand III); V: f. 199–241), painted initials at the beginning of each text, numerous decorated initials. The decoration is homogeneous throughout.

Astrology and astronomy: table of contents added by John Dee (2r); *Theorica planetarum Gerardi* (3ra–8vb); canons of Toledan tables (8vb–30rb), including a table with canon by Campanus of Novara (30ra–30rb); Toledan tables (30va–116r); Pseudo-Thebit Bencora, *De motu octave spere* (117ra–119va); **Ptolemaica (119va–122rb)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (122rb–123rb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (123va–124vb); Jordanus de Nemore, *De plana spera* (124vb–128vb); Euclid, *De speculis* (129ra–133va); Jordanus de Nemore, *De ratione ponderis* (133va–140rb); predictions of eclipses for 1293–1311 (140rb–140vb); **Ptolemaica (141ra–164vb)**; Alkindi (?), *De radiis* (165ra–173ra); Messahallah, *De cogitatione* (173ra–173vb); Messahallah, *Liber interpretationum* (173vb–175rb); Campanus of Novara, reworking of Theodosius’s *Spherica* (175va–194vb); Menelaus, *Spherica* (195ra–198ra); Alcabitus, *Introductorius* (199ra–217vb); notes on the lunar nodes ‘Geusahar Saturni sunt tria signa...’ (217vb–218va); Messahallah, *Liber receptionis* (218va–228vb); **Ptolemaica (229ra–230rb)**; Pseudo-Messahallah, *Liber de orbe*, short version (231ra–241vb); astronomical notes, 16th c. (242r). Blank: 1, 2v, 116v, 198v, 230v, 242v.

Bibl. CHMB, I, 2–3; Watson 1966, 136 (A280); Wright 1972, 370; M.-T. d’Alverny, F. Hudry, ‘Al-Kindi: De radiis’, *AHDLMA* 41 (1974), 139–260: 188–90; Roberts/Watson

1990, 164 (DM42); Lemay 1999, I, 311–13; Pedersen 2002, I, 127–28; Barker-Benfield 2008, II, 1190–1195 (BA I.1166).

119va–122rb ‘Incipit liber Thebith ben Chorath de his que indigent expositione antequam legatur Almagesti. Equatuor (!) diei est circulus maior qui describitur — propinqui oppositi erunt tunc retrogradi. Expletus est liber Thebith filii Core de his que indigent expositione antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

141ra–164vb ‘Liber centum verborum Ptholomei, id est Centilog<ium>. Scientia stellarum ex te ex illis est. Astronomus non debet dicere rem specialiter sed universaliter... (141rb) Mundanorum ... [blank] mutatio ad hoc et ad illud corporum supercelestium... Doctrina stellarum ex te ex illis est. Nec est doctrina in ea ut proheret (!) formam... Dixit Ptolomeus: Iam scripsi tibi, Iesure, domine libros de hoc quod operantur stelle in hoc seculo... (141va) Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras scire desiderat — Et ego tamen deprecor ut te diligat 4. Et perfecta huius libri translatio 17 d<i>e mensis Marcii, 15 die mensis in medio (!) secundi anne (!) Arabum 530. Explicit Centilogium (!).’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). The preface occurs between the three propositions and the commentary of v. 1. Occasional short marginal notes by another hand, f. 142v–144r.

229ra–230rb ‘Incipit glosa Hispalensis super 60 propositionem Centilogii Ptholomei que incipit sic: Albaharim etc. In oppositione ista Ptholomeus tria tangit. Primum est de occasione dierum creticorum — et acuta ut de magna causa et brevi.’
= ***Glosa super 60 propositionem Centilogii Ptholomei* (C.3.2)**. No glosses.

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s. XIV¹. **Or.:** England, f. 75–84 probably copied by Michael of Northgate (fl. 1295–1340), cf. Barker-Benfield, 1291. **Prov.:** perhaps St Augustine of Canterbury; William Dussing, vicar of Fordingbridge, first half of the 16th c. (f. 106v); John Dee in 1556; Sir Simonds d’Ewes (d. 1650); Robert Harley (d. 1724).

Parchment (except f. 85–98 on paper), 106 f. Composite MS made of five roughly contemporary parts (f. 1–57, 58–74, 75–84, 85–98 and 99–106). The third part (f. 75–84) is copied by a single hand. Several folia are missing at the beginning.

Scientific texts (optics, astronomy, geometry, astrology, astral magic, natural philosophy): Roger Bacon, *De perspectiva* (1r–33r); Richard of Wallingford, *Tractatus Albionis* (34r–54r);

Richard of Wallingford, *Tractatus rectangulari* (54v–57r); Zael, *De interrogationibus* (58r–68r); Zael, *De electionibus* (68v–74r); astrological notes (74v); Thebit Bencora, *De imaginibus* (75r–76r, beginning missing); **Ptolemaica** (76r–77v); Hermes/Belenus, *Liber imaginum Lunae* (77v–78v); Hermes/Belenus, *De viginti quattuor horis* (78v–79r); Hermes/Belenus, *De imaginibus diei et noctis* (79r–80v); Hermes/Belenus, *De quattuor imaginibus magnis* (80v–81r); Hermes/Belenus, *De discretione operis differentia ex iudiciis Hermetis* (81r); Hermes, *Liber de quindecim stellis* (81r–84v); John of Ligneris, *Canones primi mobilis* (85r–93r); Prophatius Judaeus, *Quadrans novus* (94r–97r); astronomical notes (98r and 98v); Marbode of Rennes, *De lapidibus* (99ra–101vb); short texts and notes on stones (102v–105r); Thetel, *Liber sigillorum* (105va–106ra). Blank: 33v, 57v, 93v, 97v, 102r, 106v.

Bibl. CHMB, I, 21; Watson 1966, 135 (A279); Wright 1972, 371; Roberts/Watson 1990, 118 (M72); Barker-Benfield 2008, II, 1289–1291 (BA I.1276 p.-r); Bohak/Burnett 2021, 86–87.

76r–77v ‘Opus ymagarum (!) secundum consilium Ftolomeum (!) et est omnibus modis propior et veracior in probatione quoniam eius effectus super facies signorum duodecim. Dixit Alburabeth Benfeliz quod omnes orientales operantur per has ymages — ut a vento moveatur et videbis mirabilia si Deus voluerit. Explicit opus ymagarum (!) secundum consilium Ftolomeum (!). Deo gracias.’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**. Glosses by another hand, possibly contemporary with the copy.

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s. XIII^{ex}–XIVⁱⁿ (f. 24–174; f. 175–234 date from the first half of the 14th c. and the rest of the MS from the 15th c.). **Or.:** English hand (f. 24–174; most of the MS seems to be English, with the possible exception of f. 175–234, parts of which at least were copied in the Low Countries (Bruges?) by a Flemish scribe, cf. f. 211r–212v and 217v). **Prov.:** Roger Marchall (d. 1477); John Dee; Sir Simonds d’Ewes (d. 1650); Robert Harley (d. 1724).

Parchment, 235 f. Composite MS made of several parts of various dates and origins, of which f. 24–174 form one unit copied by a single hand.

Astrology (f. 24–174): **Ptolemaica** (24r–51r); Albumasar, *Introductorium maius*, tr. John of Seville (51r–174r). The other parts of the MS include: computus ‘Ut cognoscamus quid est annus...’ (1r–2r); table of contents of f. 24–224, by Roger Marchall (2v); Gregory the Great, *Homiliae 40 in Evangelia* (3ra–9vb); Augustine, *De haeresibus*, end gone (10ra–15vb); excerpts from classical authors (16v–23v); Isenbrandus ordinis predicatorum, *Kalendarium novum* 1329 (175r–178v); Prophatius Judeus, *Almanach* (179r–210v); astronomical tables with headings in Flemish (211r–212v); Toledan tables (213r–216v); table for computing the zodiacal position of the Moon (217r) with instructions and added note mentioning Bruges and the value of the precession 10°17′ for 1296 (217v); Zael, *De electionibus* (218ra–221va); Zael, *Liber temporum* (221va–223va); Gergis, *De significatione septem planetarum in domibus* (223va–224vb); short astrological pieces (224vb–227v), including the horoscope of a Johannes born on 31 August 1329 (227v); Thomas Bradwardine, *Tractatus proportionum*, abridged

version (228r–229r); two short texts on motion and light (230r–234r); horoscope for 1442, added, perhaps by Roger Marchall (235r). Blank: 16r, 229v, 234v, 235v.

Bibl. CHMB, I, 101; Zinner 1962, 42; L. Thorndike, ‘The A.D. 1234 Latin Translation of Ptolemy’s *Quadripartitum*’, *Manuscripta* 8 (1964), 98–101; Watson 1966, 127 (A237); Wright 1972, 376; A. G. Watson, *Catalogue of Dated and Datable Manuscripts c. 700–1600 in the Department of Manuscripts. The British Library*, London, 1979, I, 119 (no. 632); Pedersen 1983–1984, I, 238; Roberts/Watson 1990, 116 (DM36); L. E. Voigts, ‘A Doctor and His Books: The Manuscripts of Roger Marchall (d. 1477)’, in *New Science out of Old Books: Studies in Manuscripts and Early Printed Books in Honour of A. I. Doyle*, eds R. Beadle, A. J. Piper, Aldershot, 1995, 249–314: 279–80; Lemay 1995–1996, IV, 184–86; Pedersen 2002, I, 128; CML, III, 132–33.

24r–51r ‘Quadripartitum Ptholomei [title added in upper margin]. Accidentia scientie futurorum de significatione super illud quod proventurum est a stellis dividuntur in duas radices — quam consecutis sum cum scientia et probacione mea et hic melius quam potui vulgariter. Perfectus est Quadripartitus Pth<olomei> gratia Dei mense Februario die Sabbati, Sole in Aquario 26 gradu, Luna in eodem 6, Saturno in Tauro, anno ab incarnatione domini M^oCC^oXXX^o quarto, annis Arabum 633, era M^aCC^a74 in civitate Toletana translatus. Et triangulus quidam primus vocatur atrioalis (?) et est ille qui incipit ab Ariete et nominatur atrionalis (!) — hoc capitulum est p... (?). Explicit Quadripartitus Ptolomei. Deo adiuvante.’
= **Ptolemy, *Quadripartitum*, tr. Toledo 1236 (A.2.4)**. Book I, 24r–32r; II, 32r–39r; III, 39r–45r; IV, 45r–51r; additional paragraph, 51r. No glosses.

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s. XIV¹ (solar tables 1341–1344 now in MS $\rightarrow$ Oxford, BL, Digby 178, f. 11r–12v; astronomical observations in 1347 reported by Simon Bredon in the lower margin of f. 3v — these are edited by K. Snedegar, ‘The Works and Days of Simon Bredon, a Fourteenth-Century Astronomer and Physician’, in Nauta/Vanderjagt 1999, 285–309: 297 n. 37). **Or.:** MS copied by Simon Bredon at the University of Oxford. **Prov.:** Simon Bredon bequeathed the MS to Merton College in 1372; John Dee in 1569 (f. Ir); Sir Simonds d’Ewes (d. 1650); Robert Harley (d. 1724).

Parchment, I + 175 f., a single hand (with seemingly different types of script), decorated initials. This was originally the beginning of a larger MS, which was dismantled in the 17th c. and whose other parts are now in MSS $\rightarrow$ Oxford, BL, Digby 178 and London, BL, Cott. Tib. B. IX (see full reconstruction by Watson, ‘A Merton College Manuscript’).

Astronomy and mathematics: table of contents, 15th-c. hand (Ir); table of contents by Simon Bredon (Iv, see Note 1 below), among scattered and partly illegible notes (Iv–Ir, see Note 2 below); **Ptolemaica (1v–6v)**; *Excerptum de astrologia Arati* (6v); Hyginus, *De astronomia*, excerpts (7va–7vb); **Ptolemaica (8r–123r)**; *Liber de triangulis Iordani*, incomplete (123r–130r); **Ptolemaica (132r–136v)**; Johannes de Tinemue, *De curvis superficiebus* (137r–139v), with added note ‘Quia iste commentator Archimedis non probat...’ (139v);

Richard of Wallingford, *Tractatus Albionis* (140r–157r); astronomical tables (157r–164r); Azarchel, *Saphea*, tr. Guillelmus Anglicus, beginning only, construction part (164v–165r); Azarchel, *Saphea*, tr. Johannes Brixiensis and Prophatius Judeus (165r–173r); **Ptolemaica** (173r–174v); Boethius, *De musica*, excerpt (175r–175v). Blank: 7r, 130v–131v.

Note 1 Simon Bredon's table of contents f. Iv allows us to reconstruct the original volume. This table is reproduced in full below, together with the correspondences with MSS [→]Oxford, BL, Digby 178 (= O) and London, BL, Cott. Tib. B.IX (= L): 'Gebir 1^o, Almagesti abbreviatum 77^o. Jordanus de triangulis 115^o. Plures conclusiones Almagesti abbreviati 124. De curvis superficiebus 129. Albeon 132. Caphea 157. Totationes capitulorum librorum Almagesti 165. Extracta de musica Boicii 167. Textus Euclidis 168 [O, 88r–107r]. Conclusiones Gebir 187 [O, 107r–108r]. Teodosius de speris 189 [O, 108v–111r], Mileus 192 [O, 111v–115v]. Tabule planetarum 196 [L, 1r–4v]. De divisionibus superficierum 206 [L, 225r–229v = Machomet Bagdadin, *De superficierum divisionibus*]. De 5 corporibus raribus 211 [not found]. De speculo combustivo 212 [L, 230r–235v = Roger Bacon, *De speculis comburentibus*]. Tabula equationis domorum in latitudo 51 gra<dibus> 225 [O, 4v]. Tabule latitudinum 226 [O, 5r–8v]. De motu Thebit 229 [O, 9r–10v]. De quadratura circuli 232 [O, 11v–13v, bottom]. 4 tabule Solis 232 [O, 11r–12v]. This table refers to an older foliation, still visible at the upper left corner of the verso pages. This foliation is 7 folia below the current foliation because f. 1–7 were added last, yet before the more recent table f. Ir, which opens 'Tractatus de figuris stellarum in oceana sacra fo. 1^o'.

Note 2 The notes on f. Iv–1r include a longer text mixing astronomical and astrological elements said to be borrowed from a book by Ptolemy: 'Item libellus qui intitulator Tholomeus de dispositione orbis et temperiei dicit quod... (1r) et ex quodam libello qui intitulator Ptholomeus de dispositione orbis et temperiei, et incipit: Dividitur orbis signorum. Item in eodem libello dicitur quod triplicitas Arietis, Leoni et Sagittarii dicitur septentrionalis...'. This book corresponds to Geminus of Rhodes's *Elementa astronomie*, also known as *Liber introductorius Ptolomei ad Almagesti* (see R.35).

Bibl. CHMB, I, 391; Clagett 1964–1984, I, xxi; Watson 1966, 208 (A911); Wright 1972, 384; A. G. Watson, 'A Merton College Manuscript Reconstructed: Harley 625; Digby 178, fols 1–14, 88–115; Cotton Tiberius B. IX, fols 1–4, 225–35', *Bodleian Library Record* 9 (1976), 207–17 (reprinted in A. G. Watson, *Medieval Manuscripts in Post-Medieval England*, Padstow, 2004, XIII); Clagett 1964–1984, V, 340–41; Kristeller 1963–1992, IV, 146; Roberts/Watson 1990, 120–21 (M95); Meyer/Huglo 1992, 78; Zepeda 2018, 66.

1v–6v '[Title in red now illegible.] Illa que est super extremitatem Capricorni: (longitudo) 2^s 0° 10' – (latitudo) 66° 0' – (magnitudo) 3. Illa que est post istam super caudam: 2^s 0° 0' – 70° 0' – 4 — thaugebe dicuntur stelle comate.'
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2), VII.5–VIII.1**, star catalogue. A few marginal notes by Simon Bredon, including the reported observations of 1347 f. 3v.

8r–84v 'Hic incipit liber primus Gebir [title added by a later hand in upper margin]. Scientia species habet quarum melior post scientiam si Dei est — sunt digniores et evanescent et destruantur. Et illud est propositum. Explicit Gebir.'

- = **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 8r–9r; I, 9r–16v; II, 16v–23v; III, 23v–27r; IV, 27r–35r; V, 35r–48r; VI, 48r–60r; VII, 60r–73v; VIII, 73v–77v; IX, 77v–84v. Glosses by Simon Bredon and perhaps by one or two contemporary hands. The text is followed by two paragraphs: ‘A quocumque angulo equilateri trianguli inscripti... Infra quadratum propositum octogonum...’
- 85r–123r and 132r–136v ‘Omnium recte philosophantium verisimilibus credibilibus — (123r) tenebrarum sic se habent. Explicit. Explicit. (132r) Hec conclusiones sunt de libro quinto Almagesti abbreviata [title in upper margin, perhaps by the scribe]. 7^a [in the margin]. Diametrum epicicli ipsius longitudo longioris equalem indicans — in numero quod potest deficere a vero...’
= ***Almagesti minor* (C.1.4)**. Section V.7–19, omitted *in loco* (cf. note in the margin of f. 109v: ‘Hic deficiunt 13 conclusiones que ponuntur post triangulos Iordani’), was supplied on f. 132r–136v. Occasional short marginal notes by Simon Bredon (more substantial on f. 102v) and perhaps by one or two contemporary hands.
- 173r–174v ‘Liber Almagesti ex precepto Maymonis regis Arabum qui regavit (!) in Baldach — In dictione 13^a Almagesti sunt 11 capitula... Capitulum undecimum in complemento libri.’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Preface (second part) and full chapter index. No glosses.

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s. XVI² (horoscopes for 1559 f. 72r, 1520 and 1506 f. 75r, 1558 f. 78r, 1537 f. 78v and 79v). **Or.:** England, perhaps Oxford, cf. geographical coordinates of five English cities f. 91v: Oxford 51°50′, Exeter 51°00′, ‘Tantonía’ (Taunton?) 51°20′, London 51°34′ and ‘Stoclonde Ganuntis (?)’ 51°24′, together with the note ‘vera elevatio poli Oxoniensis est gradus 51, minuta 55 secundum calculationem magistri doctoris Blivet et est expertus. Vera elevatio poli Stoclondensis in gradibus 51, in minutis 24 secundum calculationem et probationem Iohannis Coche vicarii ibidem.’ **Prov.:** Samuel Knott (d. 1687); Robert Burscough (d. 1709).

Paper, 133 f., one main hand.

Astrologer’s handbook, mainly in English, made of tables, notes, excerpts and short texts difficult to collate, including ***Ptolemaica* (21v)**; Guillelmus Anglicus, *De urina non visa* (88r–89r); ***Ptolemaica* (98r–106v and 109r–114r)**; Pseudo-Aristotle, *De Luna* (114v–115v).

Bibl. CHMB, II, 635; Wright 1972, 405; Moulinier-Brogi 2011, 217–18.

- 21v ‘De mutatione aeris per singulos menses. At autem de temporum mutatione particulariter verum nosse desideraveris, regule que iam dicentur ab animo tuo non labantur. Prima die mensis Septembris, Icarus, custos plaustri, apparet cum Solis ortu — et erit tunc calida mutatio aeris. Sexta die mensis...’

= **Pseudo-Ptolemy, *De temporum mutatione* (B.12)**, first lines only (the text ends abruptly and the rest of the page is blank). No glosses.

98r–106v and 109r–114r ‘Divisio signorum et planetarum. <S>ignorum alia sunt masculini generis, alia sunt feminini, feminini ut Taurus, Cancer, Virgo — si autem nulla fuerit ibi, nonum inspicere, et similiter iudicare ut superius dictum est.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**. No glosses. F. 107–108 are an insertion containing onomantic texts in English.

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s. XV. **Or.:** England. **Prov.:** Samuel Knott (d. 1687); Robert Burscough (d. 1709).

Parchment and paper, 64 pp., several hands somewhat disorderly.

Geomancy: ‘Hec est geomancia Indenea que vocatur filia astronomie quam fecit unus sapientum Indie et est facta per 7 planetas...’ (1–32); ‘Si quid occultum et locum in quo cognoscere desideras...’ (33–58); **Ptolemaica** (59); *Figure septem planetarum* ‘Liber de 7 figuris 7 planetarum. Saturnus. Incipit liber de septem figuris septem planetarum per numeros antiquos. Antiqui philosophi in 7 figuris sequentis occultaverunt...’ (60–63); two *experimenta* (64).

Bibl. CHMB, II, 288; Wright 1972, 408.

59 ‘Explicit translatio magistri Barnardi de Gordonio phisicii (?) regnante Bonefacio papa et Radulpho electo imperatore et Philippo rege Francie filio quondam Philippi regis Francie et Iacobo rege Maioritarum et Beringario episcopo Magdaletius (?) et Edwardo rege Anglorum, anno domini millesimo CC^{mo} 95^o in Monte Pessulano per 12, 19 Gednay (?).’
= **Pseudo-Ptolemy, *Archanum magni Dei de reductione geomancie ad orbem* (B.17)**, colophon only at the top of p. 59 and in a hand that looks different from the hand that copied the text on pp. 33–58, which ends ‘ita intelligendum de mulieribus. Et hec sufficiant que sunt de natura figurarum in se’. No glosses.

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s. X^{ex}–XIⁱⁿ (probably after 994). **Or.:** Fleury and/or England (Winchester?).

Parchment, 93 f., several hands.

Astronomy mainly: Abbo of Fleury, prayer ‘In patris natiue sui sed flaminis...’ (1ra–1rb); Hyginus, *De astronomia* (1rb–30ra), with addition by Abbo of Fleury ‘Terminat Hyginus volumen doctus moderans...’ (30ra–30rb); astronomical verses ‘Ad boreae partes Arcti vertuntur et anguis...’ (30rb–30va); Abbo of Fleury, *De ratione spere* (30va–32rb); two prayers ‘Domine Deus omnipotens sancta trinitas...’ (33ra); ‘De XII signis. Primitus de Ariete. Regionem XII caeli in quam Sol cursum suum dirigit...’ (33ra–35rb); Cicero, *Aratea*, with illustrations (36ra–48v); astronomical excerpts by various authors, including Pliny,

Macrobius and Martianus Capella ‘De concordia solaris cursus et lunaris. Novem horis in Luna pro quinque diebus...’ (49ra–55rb); ‘Incipit liber prognosticorum Arati. Prognostica Solis et Lune. Sol cum fuerit in Ariete...’ (55va); **Ptolemaica (55va–73v)**; Martianus Capella, *De nuptiis Mercurii et Philologiae*, Book VIII (74ra–83vb); abacus ‘Numeri videntur ratione formari...’ (84vb–85vb); Remigius of Auxerre, comm. on Book VIII of Martianus Capella’s *De nuptiis Mercurii et Philologiae*, incomplete (86ra–93vb). Blank: 32v, 35v, 69v, 84r, 84va.

Bibl. CHMB, II, 697; A. Van de Vyver, ‘Les œuvres inédites d’Abbon de Fleury’, *Revue Bénédictine* 47 (1935), 125–69; 142–44; Saxl 1915–1953, III.1, 157–60; Leonardi 1960, 73–75 (no. 98); B. Munk Olsen, *L’étude des auteurs classiques latins aux XI^e et XII^e siècles*, I, Paris, 1982, 334; Kristeller 1963–1992, IV, 160; M. Mostert, *The Library of Fleury. A Provisional List of Manuscripts*, Hilversum, 1989, 107 (no. 380); Pingree 1997, 7–9; A. Borst, *Schriften zur Komputistik im Frankenreich von 721 bis 818*, Hannover, 2006, I, 343–44; Blume/Haffner 2012–2016, I.1, 327–32.

55va–73v ‘Preceptum ingrediendi canonis Tholomei. Intellectus climatum polisepiseme requires si inveneris platos civitatis — (69ra) requires superiorem et inferiorem et addes aut deduces’ (followed by the tables f. 70r–73v).
= **Preceptum canonis Ptolomei (A.7.1)**. No glosses.

London, British Library, Harley 3151

s. XIV or XV. **Or.:** England (cf. f. 43r–44r). **Prov.:** Robert Harley.

Parchment and paper, 44 f., a single hand.

Scientific texts: *Regimen animarum* ‘Incipit qui vocatur animarum reginem compilatus in anno domini M^oCCC^oXL^oIII^o. Incipit prologus. O vos omnes sacerdotes qui laboratis...’ (1ra–23vb); Isidore of Seville, *Etymologiae*, Book III on mathematics (24r–32v); Johannes Peckham, *De spera* (33r–37v); **Ptolemaica (38r–39r)**; ‘Tractatus de planetis. Septem sunt planete, scilicet Luna, Mercurius, Venus...’ (41r–42r); excerpts of a text on music ‘Quo quarti tonus est plus diapente...’ (43r); text on manuscript illumination, in English (43r–44r). Blank: 12v, 24v, 39v–40v, 42v, 44v.

Bibl. CHMB, III, 6.

38r–39r ‘Tholomeus [title in upper margin, hand of the scribe]. Dixit Ptolomeus: Iam scripsi tibi ... [blank space] libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et illis... Quod dixit Ptolomeus, ex te et illis est, significat quod qui res futuras scire desiderat — considerare et quis eorum forcior sit.’
= **Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), tr. Plato of Tivoli (C.3.1.1)**, preface and v. 1–6. The scribe stopped copying towards the end of the commentary on v. 6 in the middle of f. 39r and left f. 39v–40v blank. No glosses.

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s. XIII^{ex}–XIVⁱⁿ, after 1293 ('anno domini 1293 fuit Luna in...' added by the scribe in the margin of f. 212v; solar tables 1292–1295 f. 60v–62v; other notes added by the scribe in the margins, mentioning the years 1272 and 1287 on f. 200r, 201v, 203v, 210v and 214r). **Or.:** northern France, perhaps Paris (see f. 60v–62v). **Prov.:** 'Iste liber est (?) Petavii (?) de Laucerto [Lauzerte, Tarn-et-Garonne] licentii in legibus', 15th c. (f. 225v); 'Ex libris Claudii Danaei 1573' (2r); James Woodman (d. 1728), London bookseller; Robert Harley.

Parchment, 225 f., a single very neat hand, beautifully painted initials, decorated initials on every page of text.

Computus and astronomy: table of contents, 14th c. (1v); computus tables with canons (2v–3vb); Balduinus de Mardochio or Marrochio, *Compotus manualis* (4ra–10rb); Petrus de Dacia, *Kalendarium* (10va–16v); Sacrobosco, *Algorismus* (17ra–22rb); Sacrobosco, *De sphaera* (22rb–33rb); Sacrobosco, *Computus* (33va–54vb); Robertus Anglicus, *Quadrans vetus* (55ra–60rb), with solar tables 1292–1295 for Paris (60v–62v); Pseudo-Messahallah, *De compositione astrolabii* (63ra–81ra); *Theorica planetarum Gerardi* (81ra–88rb); Pseudo-Thebit Bencora, *De motu octave spere* (88rb–91rb); **Ptolemaica (91va–94va)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (94va–95vb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (95vb–97rb); canons of Toledan tables (97va–119vb); Toledan tables (120r–194v); Petrus de Sancto Audomaro, *Tractatus de semissis*, ch. 10 (195ra–197rb); *Canones super tabulas Humeniz philosophi summi Egiptiorum* (197rb–199va) and tables (200r–214r); Petrus de Sancto Audomaro, *Tractatus de semissis*, chs 1–9 (215ra–224vb); astronomical diagram, empty (225r). Blank: 1r, 2r, 214v, 225v.

Note This MS is closely related in content to ↗Paris, BnF, lat. 7298.

Bibl. CHMB, III, 48; L. Thorndike, 'The Study of Mathematics and Astronomy in the Thirteenth and Fourteenth Centuries as Illustrated by Three Manuscripts', *Scripta Mathematica* 23 (1957), 72–76: 67–71; Wright 1972, 432; Pedersen 1983–1984, I, 238–39 and II, 656; Pedersen 2002, I, 128; Lohr 2025, 99*.

91va–94va 'Incipit liber Tebith Bencorath de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super 2 polos orbis — propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Core de hiis que indigent expositione antequam legatur Almagesti.'
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

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s. XII, probably before 1160 (for f. 1–69) and XIV (f. 71–104). **Or.:** Italy, perhaps Lucca (f. 1–69). **Prov.:** Nicolaus Cusanus in 1421 (f. 1r); Nathaniel Noel (d. c. 1753); Edward Harley in 1724; Robert Harley. The date and place of origin of f. 1–69 are inferred from a set of notes (f. 69r–69v) in a mixture of Latin and Italian, added by an early owner, where the year 1160 and Lucca are mentioned: 'Anni domini MCLX correbas ciclum Lune XIX annos... Ego

Deus qui aparui Abraam, Yzaac et Iacop in Deo patre omnipotente et nomen meus Adonai non abscondi eius. La razione dele littere Iulii inperator dicoti come vuoli fare... (69v) Sciatis quod tabule iste facte sunt super civitas Luce...' (these notes have been analysed and edited in Burnett, 'Latin Alphanumerical Notation...', 78–79).

Parchment, 104 f. Composite MS made of two parts (f. 1–70 and 71–104), each copied by a single hand, except for additions on f. 15–16 and 69–70.

Astrology: **Ptolemaica (1r–15r)**; two astrological-astronomical tables with notes, added (15v–16r); Zael, *Liber iudiciorum* (17r–68v); three short chapters 'In domino ascendentis revolutionis anni debemus considerare dominum ascendentis... Cum interrogatus fuerit de aliquo, prospice planetas... Quando Luna comburitur...' (68v–69r); added notes (69r–69v, see above); excerpts of religious texts, added (70r–70v); 'De operatione planetarum in mundo. Videamus operationem planetarum in omnibus rebus...' (71r–80v); Messahallah, *Liber receptionis* (81r–98v); Gergis, *De significatione septem planetarum in domibus* (99r–103v); three short chapters 'De horis bonis et malis. Hora Saturni bona est ad emendum ferrum... Item, de horis bonis et malis. Iterum hora Solis mala est... De amicitia et inimicitia planetarum. Sol et Mercurius se diligunt...' (103v–104v). Blank: 16v.

Bibl. CHMB, III, 265; Zinner 1962, 41; R. Danzer, A. Krchňák, R. Haubst, 'Kritisches Verzeichnis der Londoner Handschriften aus dem Besitz des Nikolaus von Kues', *Mitteilungen und Forschungsbeiträge der Cusanus-Gesellschaft* 3 (1963), 16–100: 81–84; Krchňák 1963, 176–77; Wright 1972, 456; Kristeller 1963–1992, IV, 151; C. Burnett, 'Latin Alphanumerical Notation, and Annotation in Italian, in the Twelfth Century: MS London, British Library, Harley 5402', in *Sic itur ad astra. Studien zur Geschichte der Mathematik und Naturwissenschaften. Festschrift für den Arabisten Paul Kunitzsch zum 70. Geburtstag*, eds M. Folkerts, R. Lorch, Wiesbaden, 2000, 76–90.

1r–15r 'Alkanderinus [added in upper margin by a later hand]. Incipit... [title in red, faded]. Signorum alia sunt masculini generis, alia feminini, feminini ut Taurus, Cancer, Virgo... (14v) De mutatione temporis. Ut autem de mutatione temporum partulariter nosse — scias te ipsam numquam habiturum. Explicit.' = **Pseudo-Ptolemy, *Iudicia* (B.3)**. The text includes Pseudo-Ptolemy's *De temporum mutatione* (B.12) on f. 14v (see below). A couple of short marginal notes by a later hand, f. 5r and 6r.

14v 'De mutatione temporis. Ut autem de mutatione temporum partulariter nosse verum desideras, regule que iam dicentur ab animo tuo non labantur. Prima die mensis Septembris, Ycarus, custos plaustris, apparet cum Solis ortu — id est Eridanus apparet XXIa die Ipos, id est Equus.' = **Pseudo-Ptolemy, *De temporum mutatione* (B.12)**, incomplete, as part of the previous text. No glosses.

London, British Library, Royal 12.E.XV

s. XIII–XIV. **Prov.:** Edward IV before his accession (f. 2v: 'Iste liber constat Edwardo comiti Marchie primogenitus filius ducis Eboraci').

Parchment, 136 f., two hands (f. 3–18 and 19–135). The second (and main) hand is rather neat, with golden initials at the beginning.

Medicine, natural philosophy and astrology: short medical texts on bloodletting, women's diseases, anatomy, etc. (3r–18v); Pseudo-Aristotle, *Secretum secretorum* (19r–116r); **Ptolemaica (117r–135r)**; added notes on planetary distances (136v). Blank: 1–2 (except ex-libris and a few notes), 116v, 135v–136r.

Bibl. G. F. Warner, J. P. Gilson, *Catalogue of Western Manuscripts in the Old Royal and King's Collections*, II: *Royal MSS 12 A.I to 20 E.X and App. 1–89*, London, 1921, 54–55; Lemay 1999, I, 249–50.

117r–135r 'Incipit liber 100 verborum Ptholomei. Dixit Ptholomeus: Iam scripsi tibi fore libros de hoc quod operantur stelle in hoc seculo... Verbum primum. Scientia stellarum ex te et ex illis — (132v) ad occidentem erit hostis de regno ipso. 99. De nominibus cometarum. Dixit Ptholomeus: Iste stelle cum caudis sunt II^a (!) — (133v) in regibus et divitibus apparebit. 100. Dixit Ptholomeus et Hermes: (134r) Locus Lune in hora qua infunditur — ubi eam inveneris erit ascendens nativitatis. Explicit Centilogium Ptholomei philosophi cui Deus parcat.'

= **Abuiafar Hamet filius Joseph, <Commentum in Centiloquium>, 'Mundanorum' version (C.3.1.3)**, in 'Mundanorum 2'. The commentary is missing, but this section contains unusually large margins, which have been left blank. The text includes Pseudo-Ptolemy's *De cometis* (B.4) on f. 132v–133v (see below) and *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 133v–135r (see below), as v. 99 and 100 respectively. No glosses.

132v–133v '99. De nominibus cometarum. Dixit Ptholomeus: Iste stelle cum caudis sunt II^a (!) — in regibus et divitibus apparebit.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as v. 99 of the *Centiloquium* (see above). No glosses.

133v–135r '100. Dixit Ptholomeus et Hermes: (134r) Locus Lune in hora qua infunditur — ubi eam inveneris erit ascendens nativitatis.'
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as v. 100 of the *Centiloquium* (see above). No glosses.

London, British Library, Royal 12.E.XXV

s. XIII^{ex}–XIVⁱⁿ. **Or.:** England. **Prov.:** Merton College, Oxford, in the 14th c. (cf. catalogue of 1360 and erased note f. 2r: 'Liber scolarium de Merton in Oxonia ex legato magistri Ricardi De Camsel...'); 'Richard Philyp', 15th-c. hand (f. 1r); Tattershall College (Lincolnshire); Old Royal Library; presented by George II to the British Museum in 1757.

Parchment, 184 f., one main hand.

Philosophical and scientific texts: table of contents, added (1r); collection of texts and fragments of philosophy and physics (2r–141v); treatise on the quadrant (142r–145r); *Tractatus chylindri* (145v–147r); short text of arithmetic (147v–148v); tables and texts of astronomy and mathematics (149r–151v); Robertus Anglicus, *Quadrans vetus* (152r–156r); Albumasar, *Flores*, second part (156v–160r); Hermes, *Liber de quindecim stellis* (160v–164r); spheres of life and death (164v–165v); ‘Cum fuerit Luna in Capite vel in Cauda Draconis in uno signo...’ (165v); table: elections from the aspects of the Moon with the other planets (166r); Robert Grosseteste (?), *De impressionibus aeris* (166v–169v); Hermann of Carinthia, *Liber imbrum* (170r–172r); **Ptolemaica (172r)**; Raymond of Marseille, *Liber iudiciorum*, reworking known as ‘Leicester *Iudicia*’ (172r–176v); *Theorica planetarum Gerardi* (177r–181r). Blank: 1v, 181v.

Bibl. G. F. Warner, J. P. Gilson, *Catalogue of Western Manuscripts in the Old Royal and King’s Collections*, II: *Royal MSS 12 A.I to 20 E.X and App. 1–89*, London, 1921, 59–61; *ALC*, I.1, 386 (no. 313); H. F. Dondaine, H. V. Shooner, *Codices manuscriptorum operum Thomae de Aquino*, II, Roma, 1973, 244–46; Kristeller 1963–1992, IV, 196; *CMML*, III, 168–71.

172r ‘Tholomeus dixit quod stelle cum caudis sunt 9, prima veru — in regibus et principibus apparebit. Et hec de cometis breuiter distinxiimus. Explicit.’
= Pseudo-Ptolemy, *De cometis* (B.4). No glosses

London, British Library, Royal 12.FVII

s. XIVⁱⁿ. **Or.:** England. **Prov.:** John Theyer in 1641 (f. 1r).

Parchment, 251 f., a single neat hand, six illuminated initials (f. 1r, 3r, 60r, 112r, 182v and 242v), numerous decorated initials. Several folia are missing after f. 218 and after f. 251.

Astrology and medicine: **Ptolemaica (1ra–218vb)**; medical aphorisms (219ra–242r); **Ptolemaica (242va–251vb)**.

Bibl. G. F. Warner, J. P. Gilson, *Catalogue of Western Manuscripts in the Old Royal and King’s Collections*, II: *Royal MSS 12 A.I to 20 E.X and App. 1–89*, London, 1921, 62–63; Lemay 1999, I, 345–48.

1ra–218vb ‘Dixit Egideus de Tebaldis Lombardus de civitate Parmensi, translator huius libri: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (1rb) Tractatus primus glose Haly Abenrudiani super prima parte libri (1va) Quadripartiti Ptholomei Pheludiani. Dixit Haly: Verba que dixit sapientissimus Ptholomeus in arte iudiciorum astronomie... (3ra) Capitulum primum primi tractatus libri quatuor partium Ptholomei. Res, Misori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — (216rb) Capitulum decimum in partitione temporum nati... Propter quod gubernator 10 annorum qui sunt post istas que est etas puericie et est secunda est planeta secundus qui est Mercurius dominus medietatis 20 annorum, propterea incipit natus in hac etate intelligere et rationi habere sicut rami sapientie in sua anima plantarentur et radices...’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).**

The text ends abruptly in IV.10, due to missing folia. Translator's preface, 1ra–1rb; Haly's preface, 1rb–3ra; I, 3ra–60ra; II, 60ra–111vb; III, 111vb–182ra; IV, 182ra–218vb. No glosses.

- 242va–251vb 'Hic est liber quem edidit Ptholomeus Pludensis in quo continentur 100 verba ex electissimis sentenciis iudiciorum astrorum, et est expositio ex commento Haly medici magni. Verbum primum. Dixit Ptho<lome>us: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Mundanorum mutatio ad hoc et ad illud corporum supracelestium... (243ra) Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Dixit Ptho<lome>us, mundanorum etc., primum quasi fundamentum totius scientie... Quod dixit Ptho<lome>us, ex te et illis est, significat quod quis res futuras scire desiderat — [v. 43] Ea que fiunt secundum consuetudinem naturalem in secta... Res que fiunt secundum esse naturale et secundum leges... Intendit matrimonium utile fore ut presint fortune in incepto et ut coniungantur cum signatore et...'
- = **Abuifafar Hamet filius Joseph, *Commentum in Centiloquium*, 'Mundanorum' version (C.3.1.3), v. 1–43,** due to missing folia at the end. The text is mixed in places with Plato of Tivoli's translation (C.3.1.1), including the preface at the beginning and the addition to v. 10 (f. 245ra) 'Aliud. Et ideo excitavit nos Ptholomeus ut operaremur...'. No glosses. Three very short marginal notes by a later hand f. 243rb, 243va and 248va.

London, British Library, Sloane 216

s. XVI^{ex}–XVIIⁱⁿ.

Paper, 378 f., three neat alternating hands.

Ptolemaica (single text), except for Valentin Nabod's horoscope (378r). Blank: 1r, 378v.

Note Nabod's horoscope (f. 378r) gives the date 14 February 1527 at 6.32am by mistake, for the planetary positions are correct for 14 February 1523 at 6.32am. The date 1523 is confirmed by other horoscopes, see L. Bellizia, 'Valentin Naboth. Matematico, astronomo, astrologo', *BC* 20 (2014), 645–53: 651–52. The horoscope is accompanied by the note 'Haec est Valentini Naibodae Erphordiensis, huius operis auctoris, qui inventus fuit Patavii in propria domo ense transfixus post triduum. Et ignoratur an a se vel ab alio, credibile tamen est ipsum sibimet et mortem intulisse, quia Saturnus est dominus horoscopi et octavae et Venus altera octavae domina cadens in Ariete.' On the colourful circumstances of Nabod's death, see *ibid.*, 649–53.

Bibl. *CLMB*, I, 33; Kristeller 1963–1992, IV, 57.

- 1v–377v 'Valentini Naibodae mathematici praeclarissimi in Claudii Ptolemaei Quadripartitae constructionis apotelesmata commentarius novus et eiusdem conversio nova. (2r) Prooemium deest. Quod futurorum per astronomiam

praecognitio sit quaedam ars et quousque progrediatur. Caput primum. Facile patescit, breviterque perspicuum fieri potest omnibus quod de aeterea et externa natura vis quaedam diffundatur — Itaque hic et in hoc termino noster quoque interpretandi commentandique labor finem iam accipiat.’

= **Valentin Nabod**, *In Claudii Ptolemaei Quadripartitae constructionis apotelesmata commentarius novus et eiusdem conversio nova* (C.2.30), missing the preface (cf. ‘Prooemium deest’, 2r) and several sections of Book I (cf. ‘Caetera desunt’, 10r; ‘Deest’, 10r; ‘Desunt nonnulla’, 10v; etc.). Book I, 1v–13v; II, 14r–91v; III, 92r–263v; IV, 264r–377v. Marginal and interlinear corrections by one hand, possibly one of the scribes.

London, British Library, Sloane 312

s. XV. **Prov.:** John Dee; perhaps Francis Bernard (1627–1698).

Paper, 255 f., several hands, one of which copied f. 29–40.

Astrology: Abraham Avenezra, *De questionibus*, anonymous tr. (1r–8v); ‘Si a te pro aliqua muliere queritur (?)...’ (9r, added); index of chapters f. 1r–8r and 13r–24r (10r–12r, added); ‘Artabari in precio rerum dicit: Quando scire volueris caristiam...’ (13r–15v); ‘De naturis et proprietatibus planetarum. Saturnus significat agriculturam...’ (15v–16v); ‘De prima domo et suis questionibus. In sciendo vitam hominis...’ (16v–23r); ‘De aperitione portarum cum ... (?)’. Cum scire volueris aperitiones portarum...’ (23r–23v); ‘De aspectibus planetarum. Respectus stellarum...’ (23v–24r); ‘De stellarum radiis. Notandum quod stellarum lumen...’ (24r); Thebit Bencora, *De imaginibus* (24v–27v); ‘Utrum sit amicus verus quem credis. Si autem aliquis ut credis amicus fideliter...’ (28r–28v); ‘Si interrogatus fueris de latrocinio utrum adipiscetur dum interrogator...’ (29r–37v); ‘Primus lapis de rubii (?) quem quidem...’ (38r–38v); **Ptolemaica** (38v–39r); ‘Nota pro invenienda figuram conceptionis nati, omnibus aliis pretermisiss...’ (39r–40v); ‘Aries. Saturnus triplicitas tantum 5...’ (41r–42v, added); Abraham Avenezra, *Liber de nativitatibus* (43r–69v); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen (70v–96v, with additional notes 97r–97v); Leopold of Austria, *De astrorum scientia*, Books VIII–X and V–VII (98r–214v); Haly Embrani, *De electionibus horarum* (215r–255v). Blank: 9v, 12v, 70r.

Bibl. CLMB, I, 49; L. Thorndike, ‘Notes upon Some Less Familiar British Astronomical and Astrological Manuscripts’, *JWCI* 22 (1959), 157–71: 164–65; Roberts/Watson 1990, 130 (M195).

38v–39r ‘Dicit Ptholomeus et Hermes quot locus Lune in quo erat — et hoc expertus sum multociens.’

= **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5). No glosses.

London, British Library, Sloane 332

s. XVⁱⁿ (probably around or soon after 1420, cf. added note f. 11r: 'Nota quod anno domini 1420 erat aetas mundi 6629...'). **Or.:** England. **Prov.:** 'Edwardus Blomeville de Gountone' (f. 58v and 91v); Francis Bernard (1627–1698) (f. 1r).

Paper, with a few parchment leaves, 93 f., several hands.

Astrology: medical recipes (1v–2r); table: elections from the aspects of the Moon with the other planets (2v); '12 domus. Prima domus: vite, corporis, animi...' (3r–3v); Zael, *Introductorium*, end of ch. 2 (3v); astrological tables (4r–4v); Robert Grosseteste (?), *De impressionibus aeris*, beginning only (5r); 'Liber de ymaginibus 12 signorum. Aries est signum masculinum, igneum, incissis membris, fit enim sine lingua...' (6r–7v); astronomical diagrams with note (8r–8v); astrological tables (9r–9v); 'Tractatus de coniunctionibus planetarum cum Luna. Nota quod duplex est coniunctio...' (10r–11r); 'De ympeditis et defectibus cum debilitatibus planetarum. Debilitas planetarum fit 10 modis...' (11v); 'Si vis scire que in quibus annis...' (11v–13r); Messahallah, *Epistola de rebus eclipsium* (13v–15v); 'Debilitarum stellarum est casus excitum...' (15v); 'Practica Campani de dispositione aeris. Cum ergo dispositionem aeris...' (16r–16v); 'Accidentia aeris scies ab ascendente coniunctionis vel preventionis...' (16v); 'De medicinis recipiendis. Dixit Abraham: Commedere medicinam...' (17r); 'De coloribus planetarum. Nota quod Saturnus est primus...' (17v); 'Stelle orientales et apparentes matutinales faciunt corpora magna...' (18r–19r); **Ptolemaica (19r and 19v)**; Hermes/Enoch, *Tractatus de quindecim stellis*, incomplete (20r–21r); 'Aries est igneus et sic est calidus et siccus...' (22r–27v); 'Saturnus quid... (?) natura frigidus et siccus...' (28r–31r); Zael, *Liber iudiciorum* (31v–57r); drawing of the sign of Aries with its three decans (57r); added table of topics dealt with in the present MS (57v); 'Cum omnis scientia vel omni ars propter utilitatem suam naturaliter...' (59r–70v); Abraham Avenezra, *De questionibus*, anonymous tr., incomplete (71v–72r); later additions, including horoscopes of the revolution of 1614 (73r–79v); Guillelmus Anglicus, *De urina non visa* (80r–82v); Messahallah, *Liber receptionis*, excerpt from ch. 3 (83r–83v); Messahallah, *Liber de intentionibus secretorum astronomie* (84r–87v); 'De meditatione cordis. Dixit Alkyndus: Quando vis scire cogitationem querentis...' (88r–89r); 'Domus prima est domus et angulus orientalis...' (89r–90v); 'Pro figure sequentis declaratione...' (90v–91r, with diagram of planetary intervals); scattered notes (91v–93v); 'Computa litteras nominum maritorum in unum et si inequales sint...' (92r); horoscopic diagram summarising the 12 houses (92v). Blank: 1r, 5v–5^{bis}v, 21v, 58 (except added notes f. 58v), 71r, 72v, 74r.

Bibl. CLMB, I, 53–54; L. Thorndike, 'Notes upon Some Less Familiar British Astronomical and Astrological Manuscripts', *JWCI* 22 (1959), 157–71: 165.

19r 'Hec super Centilogii Ptol<omei> propositione 16a [note in margin]. Nota: Si in nativitate alicuius fortune sint domini malarum domorum — eiusdem signi actionem sequetur.'
= **Abuiafar Hamet filius Joseph, <Commentum in Centiloquium>, 'Mundanorum' version (C.3.1.3)**, excerpts from v. 16, 23, 40 and 45, mainly from the commentary. V. 53, 45 and 71 have also been used in the text that precedes in the MS, on f. 18r. No glosses.

- 19v 'Dixerunt Ptolomeus et Hermes quod Lune locus in hora — fuit expertus multociens.'
 = **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5). No glosses.

London, British Library, Sloane 702

s. XV^{ex} (probably c. 1482, cf. notes on the calculation of conjunctions 1482–1500, f. 11r; mention of the year 1469 f. 20r). **Prov.:** 'A Georgio Herlin Augusten' (f. 1r).

Paper, 33 f., a single neat hand.

Astrology and astronomy, short texts, excerpts and notes: world map (1v); Messahallah, *Epistola de rebus eclipsium*, excerpts (2r–3r); planetary periods (3v); notes on signs and planets 'Duodecim sunt signa zodiaci...' (4r–4v); Alcabitius, *Introductorius*, excerpt on exaltations (4v); astrometeorology 'In consideratione Solis et Lune, considera signum ascendens...' (5r–5v); Alcabitius, *Introductorius*, excerpt on aspects (5v); 'Item nota quando puer nascitur consideratur illa hora...' (6r); 'Qui cursum Lune recte scire voluerit...' (6r); astronomical calendar (6v–7r); 'Aries. Nil capiti facias Aries...' (7v); Alkindi (?), *Saturnus in Ariete sub radiis...* (8r–9v); definitions of 'ortus', 'occasus', 'progressio' and 'retrogradatio' (9v); **Ptolemaica** (10r); 'Dicit quid astronomus et expertum est...' (10r); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen, excerpt 'Super rerum caristia. Omnes sapientes astrorum dicunt quod signa aerea et ignea...' (10v); 'De prognosticatione frumenti seu bladi. Dicit Messehala si Luna se prius coniungit Iovi...' (10v); astronomical calendar (11r–11v); tables of terms, decans and degrees from Alcabitius, *Introductorius* (12r–13r); 'Sol est masculinus et diurnus...' (13r); 'Tabula parva domorum. Primum domus initium corporis et vite...' (13v); 'Regio Arietis est Persa et Babilonia...' (13v); Messahallah, *Epistola de rebus eclipsium* (14r–16r); horoscopic diagram summarising the 12 houses (16r); on the four elements (16v); 'Utrum cometa sit exaltatio calida et sicca...' (17r–18r, added bifolium); 'Cometes licet appareat quasi stella...' (19r); table of stations and retrogradations (19v); paper instruments (20r–22v); 'Notandum est de domino anni. Qui vult invenire dominum anni...' (23r); 'De Ariete. Cum Luna fuerit in Ariete, signo orientali, calido et sicco...' (23r–24v); 'Septem planetis. Saturnus est nobis remotissimus, frigidus est...' (25r–25v); 'De bonitate et malicia planetarum. Planetarum alii boni, alii mali...' (25v); 'De operibus planetarum circa fetum in utero matris. Saturnus mense primo naturam coagulare...' (25v–26r); coordinates of seven climates (26r); 'De natura capitis Draconis. Capud Draconis est masculus...' (26v); *Alchandreana*, excerpt on the Dragon (26v); on 28 lunar mansions (27r–27v); *Alchandreana*, excerpts on planets (28r); 'Saturnus habet pro domibus Capricornum et Aquarium...' (28r); 'De minutione brathiorum (!). Pro minuendo melius quod esse potest...' (28v); drawing of a zodiac man (29r); astrological notes (29v); 'Omnis planeta dum tegitur radiis Solis donec appareat...' (30r); 'De libris vero nigromanticis prime preiudicio melioris...' (30r); 'Saturnus planeta malivulus, nocturnus, ponderosus...' (30v); 'Incipit Messehalach de septem mundi climatibus. Initium primi climatis est ex parte orientali...' (31r–31v); 'Temperies causas pluviarum et aeris mutationem et causas ventorum et nubilorum...' (31v–32r); Albumasar, *Flores*, excerpt (32v); coordinates of 23 cities (33r); empty horoscope (33v). Blank: 1r, 18v.

Bibl. *CLMB*, I, 132–33; Juste 2007, 331.

- 10r ‘De hora nativitatis puerorum. Ptholomeus et Hermes dixerunt quod locus Lune in hora in qua infunditur sperma — et gradus ubi eam inveneris erit ascendens nativitatis.’
= **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (**B.5**). No glosses.

London, British Library, Sloane 1773 [Plate 25]

s. XVI. **Or.:** England (Oxford?), autograph of John Robyns (d. 1558). **Prov.:** Thomas Allen.

Paper, 117 f., a single hand, sloppy and difficult to read.

Astrology: John Robyns, *Annotationes astrologicae* (1r–55v); list of eight books attributed to Hermes (56r); *Ptolemaica* (57r–117v). Blank: 56v.

Bibl. *CLMB*, IV, 508.

- 57r–117v ‘Epitome in Apotelesmata Ptolomaei. Caput primum. Duo principia sunt et maxima (*sus.:* candissime (?)) et intime meorum amicorum mi Sire (*corr. ex* Messori)) que ad accidentium futurorum cognitione exiguntur. Declaratio textus. Iste Sirius (*corr. ex* Messorius) erat quidam medicus Ptolomeo familiaris, cui hunc librum apotelesmaticum dedicavit. Hec duo maiora et nobiliora quorum hic facit mentionem Ptolomeus sunt astrologia quadrivialis et scientia apotelesmatica, est ea astrologie pars que de iudiciis et astrorum effectibus tractat — hactenus de prefationis expositione in his tribus capitulis dicta sufficiunt. Caput quartum.’
= **John Robyns**, *Epitome in Apotelesmata Ptolomaei* (**C.2.19**). Chapter I.1, 57r–62v; I.2, 62v–86v; I.3, 86v–117v. Corrections by the scribe.

London, British Library, Sloane 1779

s. XVI² (for the Ptolemaic section, the rest of the MS dates from the 17th c.). **Or.:** England.

Paper, 212 f. Collection of MSS and documents of various origins, of which f. 54–160 form one unit copied by a single hand. The folia of this section have been bound in complete disorder (see reconstitution below).

Ptolemaica (54r–159v). The other parts of the MS contain the end of the autobiography of Caspar Sibelius (1590–1658), of which the beginning occurs in MSS London, BL, Sloane 1718A and 1718B (1r–53v); letters, state papers and other documents in English (160r–212v).

Bibl. *CLMB*, V, 535–36.

- 54r–159v ‘(54r) Cap. 4 libri 2. 1. Fixarum etiam stellarum singulis etc. Convenit, inquit, et haec adiungi, scilicet easdem regiones conciliari... (110r) Hactenus quidem percurrimus ea, quorum cognitionem, prognosticationes et praedictiones

rerum particularium maxime requirere videntur, nam in primo libro ea docuit Ptolomeus — (155r) quae ab eo superius declarata sunt. Libri 3 caput 1. 1. Communium eventuum, id est accidentium generalium, id est cuiusvi (?) sunt ea quae accidunt — (68r) honestis et pudicis verbis, tecte et occulte describit.’
 = **Thomas Allen**, *Expositio in Claudii Ptolomaei Pelusiensis de astrorum iudiciis* (C.2.27). Book II, 110–113, 109, 122–123, 54–57, 85–88, 75–78, 128–131, 91–94, 114, 69–70, 115, 152–155r; III, 155, 101–104, 132, 83–84, 133–137, 124–127, 62–65, 120, 71–72, 121, 99, 146–151, 90, 140–141, 89, 156–159, 95–98, 73, 138–139, 74, 142–145, 105–108, 116, 118–119, 117, 58–61, 79–82, 66–68. F. 68v is blank and it is not clear where f. 100 belongs. No glosses.

London, British Library, Sloane 2030

s. XII^{med} (f. 31–94) and XIII² (f. 3–30 and 95–135). **Or.:** English hands at least for f. 3–30 and 95–135.

Parchment, 136 f. Composite MS made of three parts, each copied by a single hand (I: f. 3–30 and 95–135; II: f. 31–78; III: f. 79–94).

Scientific texts: table of contents, early modern (1r); Bede, *De natura rerum* (3r–9r); ‘Divisio scientiarum. Ut dicit Boetius in commento super Por<phyrio> ante tempus Pitagore philosophia dicebatur sophia...’ (9v–10r); **Ptolemaica** (11r–30r); ‘Notandum quod 10 sunt effectus quos universaliter significat omnis cometa...’, added by a later hand (30v); Messahallah, *Liber receptionis* (31v–40v); Zael, *Liber iudiciorum* (41r–76v); Martianus Capella, *De nuptiis Mercurii et Philologiae*, excerpts from Book VIII (79r–83r); Albumasar, *Ysagoga minor* (83r–87r); **Ptolemaica** (87r–87v); *Proportiones competentes in astrorum industria* (88r–94r); unfinished astronomical diagram (94v); ‘Incipit physionomia Aristotilis. Ex qualitate corporis proprietates anime...’ (95r–103r); ‘Incipit physionomia Avicenne. Vox grossa caliditatem designat...’ (103r–108r); Pliny, *De presagiis temporum* (108r–110r); ‘Incipit liber Aristotilis de conductibus aquarum. Quia tuum amice...’ (110r–114r); **Ptolemaica** (114r–118r); Solinus, *De mirabilibus mundi* (118v–124v); ‘Incipit ciromantia Aristotilis. Linee naturales tres sunt in planicie...’ (125r–126v); ‘De quatuor partibus anni qualiter cavende sunt infirmitates. Quatuor sunt elementa mundi...’ (128r–129r); ‘Electuarium Karoli ad omnes infirmitates stomachi...’ (129r); ‘Antidotum Galieni quo utebatur solus...’ (129r); ‘Epistola Avicenne ad Karolum de mensibus singulis anni versandis...’ (129r–132r); ‘Epistola Ypocratis excepta (!) quedam sententia mirabili, contra infirmitates est...’ (132r–134r); *lunarium* ‘De lunationibus et somniis. Luna prima tota die est bona...’ (134r); *lunarium* ‘De Luna et suis iudiciis. Luna prima: Hec dies ad omnia agenda utilis est...’ (134r–135v); added notes, including the end of the preceding *lunarium* (136r). Blank: 1v–2v, 10v, 31r (except added note giving the longitude of London), 77–78 (except for a few added notes), 127, 136v.

Note The title ‘Canones Ptolomei’ has been added by a later hand in the margin of f. 88r, where the text *Proportiones competentes in astrorum industria* begins. This title was probably meant for Pseudo-Ptolemy’s *Centiloquium*, which precedes on f. 87r–87v.

Bibl. *CLMB*, VII, 268–72; Leonardi 1960, 80–81 (no. 106); Burnett 1987, 183 (no. 66); Lemay 1999, I, 203–13 and 349; Juste 2007, 331–32.

- 11r–30r ‘Incipit liber qui dicitur Centilogium a Ptholomeo editus. Mundanorum ad hoc et ad illud mutacio est corporum celestium... Scientia astrorum ex te et illis est. Astrologus non debet dicere rem specialiter in est (!) universaliter... Quod dixit Pthol<omeus>, ex te et illis, significat quod qui res futuras... (20v) Dixerunt Ptholo<me>us et Hermes quod Lune locus in hora — (29v) quanto melius scivimus exposuimus. Ptholomeus in hoc libro tricas et tricarum nomina posuit... Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Explicit.’
= **Abuiafar Hamet filius Joseph, <Commentum in Centiloquium>, ‘Mundanorum’ version (C.3.1.3)**. The text includes Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) after the commentary of v. 51 on f. 20v–21r (see below), and *De cometis* (B.4) as the last chapter on f. 29v–30r (see below). *Verba* have been wrongly numbered by a later hand in the margin. No glosses.
- 20v–21r ‘Dixerunt Ptholo<me>us et Hermes quod Lune locus in hora — et hoc expertus fuit multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). No glosses.
- 29v–30r ‘Ptholomeus in hoc libro tricas et tricarum nomina posuit... Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Explicit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.
- 87r–87v ‘<D>octrina stellarum ex te et illis. Nec est docti in ea ut prophere formam actus individualis — [39] supra parvitatem lucri agricolarum suorum cum eo.’
= **Pseudo-Ptolemy, *Centiloquium*, tr. Adelard of Bath (B.1.1)**, v. 1–39. No glosses.
- 114r–118r ‘Incipit libellus de scientia astrorum. Scientia astrorum ex te et illis. Et non oportet peritum illorum iudicare secundum formam effectuum particularium... [v. 98] Et similiter si velocis cursus fuerint. Annezoik we et eweriet et ezas weab sunt sedis ... (?) a stellis et non sunt ex stellis anmezoik, significat siccitatem vaporum — et si non ambulaverit rebellis erit de eodem climate. Explicit.’
= **Abuiafar Hamet filius Joseph, <Commentum in Centiloquium>, ‘Mundanorum’ version (C.3.1.3)**, in ‘Mundanorum 1’ only (without the commentary). No glosses.

London, British Library, Sloane 2795

s. XIII^{med}. **Or.:** England.

Parchment, 86 f., a single neat hand.

Ptolemaica (single text).

Bibl. *CLMB*, X, 426; Kunitzsch 1986–1991, II, 14; Georges (forthcoming).

1r–86v ‘... die per motum eius medium sicut iam ostendimus ante hec parum in — et in oriente medietatem octave unius...’
 = **Ptolemy**, *Almagesti*, tr. **Gerard of Cremona (A.1.2)**, Class A, III.10–X.1 only due to missing folia on both ends. III, 1r; IV, 1r–15v; V, 15v–32r; VI, 32r–46v; VII, 46v–59v; VIII, 60r–70v; IX, 70v–86v; X, 86v. A few glosses by a contemporary or somewhat later English hand, especially in Book VII (f. 46v–47v, 48v, 50r–51r).

London, British Library, Sloane 3554

s. XV.

Parchment, 111 f., a single neat hand.

Astrology and divination: ‘Incipit liber de angelis. Cum mane surgis habe Michaellem in mente tua...’ (2r–2v); **Ptolemaica (3r–8r)**; *Sortes regis Amalrici* (8r–31v), interspersed with rules for the calculus of the victorious and the vanquished (12r–14r); ‘De partibus temporis. Temporis minima pars est athomus...’ (32r–33r); ‘Secundus fuit philozophus qui primus philozophizatus est...’ (33v–38v); Pseudo-Aristotle, *Secretum secretorum* (38v–111r). Blank: 1r–1v (except note ‘Ptolomei Opus’, 1r); 111v.

Bibl. *CLMB*, XV, 625–26.

3r–8r ‘Signorum alia generis masculini, alia feminini. Fe<minini>: Taurus, Cancer, Virgo — et eius pecunia dividitur, debitum si habet diminuitur.’
 = **Pseudo-Ptolemy**, *Iudicia (B.3)*, first chapters only. No glosses.

London, British Library, Sloane 3883

s. XVII. **Or.:** England.

Paper, 99 f., several hands, one of which copied f. 82–99.

Magic and astral magic: table of contents (1r); ‘De modo ministrandi librum sacrum. Haec ars artium et divina ab antiquis sanctis patribus...’ (2r–26r); invocations and conjurations in English (27r–80r); list of magical books ‘in Bibliotheca Bodleiana inventi’ (82r–85r); Messahallah, *Liber interpretationum*, ch. 3 (86v); Thebit Bencora, *De imaginibus* (87v–93v); **Ptolemaica (93v)**; Hermes, *De imaginibus et horis* (93v–95v); Hermes/Toz Graecus/Germa Babiloniensis, *Liber Veneris* (96r–97r); Hermes/Toz Graecus, *De lapidibus Veneris* (97r–99v). Blank: 1v, 26v, 80v–81v, 85v–86r, 87r.

Bibl. *CLMB*, XVII, 355–56.

- 93v 'Instructio Ptolomei. Dixit Ptolomeus: Edidi hunc librum de ymaginibus super facies signorum — et impetrabis ex eo quod animus tuus desiderat.'
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, closing paragraph only. No glosses.

London, Lambeth Palace, 478

s. XV^{ex}. **Or.:** Italy (f. 76–91). **Prov.:** William Horman (d. 1535), vice-provost of Eton, who copied f. 1–51 (cf. f. 1r and 51r).

Parchment, 143 f., composite MS made of three parts, the second of which (f. 76–91) is in a single hand.

Ptolemaica (single text) for f. 79r–89r (f. 76–78 and 89v–91 are blank). The first part of the MS (f. 1–75) contains various texts dealing mainly with Roman history, while the third part (f. 92–143) contains the *Constitutiones provinciales* of the Archbishopric of Canterbury.

Bibl. M. R. James, *A Descriptive Catalogue of the Manuscripts in the Library of Lambeth Palace. The Mediaeval Manuscripts*, Cambridge, 1932, 660–61; Monfasani 1984, 26–27; Kristeller 1963–1992, IV, 210.

- 79r–89r 'Claudii Ptolomei liber quem fructus appellant interprete Georgio Trapezontio. <I>am pridem perutiles ad providendum operationes stellarum, o Syre, quas in hoc composito efficiunt mundo exposuimus... Abs te et a scientia, non est enim possibile ut huius scientie professor particulares rerum ideas prevideat — Sin vero non moventur hostis indigena erit. Finis. Deo gracias.'
= **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**, without the preface and the commentary. No glosses.

London, Royal College of Physicians, 383

s. XIII^{ex}. **Or.:** England.

Parchment, 178 f., a single hand. Missing folia at beginning and end.

Optics and astronomy: Alhazen, *De aspectibus* (1ra–131rb, beginning gone); added diagram and note of optics (132r); Alfraganus, *De scientia astrorum*, tr. John of Seville (133r–144r); Alpetragius, *De motibus celorum* (145r–159v); Rudolf of Bruges, *De compositione astrolabii* (160r–161v); **Ptolemaica (162ra–178vb)**. F. 179r–181v (which contain a fragment of Bracton's *De legibus et consuetudinibus Anglie*) are three folia from another MS, 'used probably as end leaves in a former binding of MS. 383' (Ker). Blank: 131v, 132v, 144v.

Bibl. N. R. Ker, *Medieval Manuscripts in British Libraries*, I: London, Oxford, 1969, 211–12.

162ra–178vb ‘Geber Arabs. Sciencia species habet quarum melior post scienciam — ad Lunam aut stellam, donec videamus eam in superficie ... (?), tunc revolvemus regulam ... (?) in circuitu pax...’
 = **Geber, *Liber super Almagesti* (C.1.2)**, ending abruptly towards the beginning of Book V due to missing folia. Preface, 162ra–162va; I, 162va–167ra; II, 167ra–170vb; III, 171ra–173ra; IV, 173ra–178ra; V, 178ra–178vb. No diagrams, except for five on f. 162v–163r. Glosses by the scribe f. 174v and 175v–176v.

London, Society of Antiquaries of London, 39

s. XV^{ex} (f. 18–25; f. 2–17 are from the 15th c. and f. 1 and 26–33 from the 16th c.). **Or.:** England, probably Cambridge, cf. reference to John Argentine (d. 1508), provost of King’s College, Cambridge, on f. 21r. The three texts of astral magic f. 19r–24r, including the Ptolemaic section, were copied into MS ⁺Oxford, BL, Ashmole 346, f. 113r–119r. **Prov.:** Thomas Dudley Fosbrooke, who presented the MS to the Society of Antiquaries in 1807.

Paper (f. 1–17 and 26–33) and parchment (f. 18–25). Three fragments of MSS: f. 1 + 26–33 (a single hand), 2–17 (a single hand) and 18–25 (three hands: f. 18r–18v, 19r–21r and 21r–24r, the tables f. 24v–25v are perhaps in yet another hand). The MS is bound together with MSS 36 and 45, which also belonged to Thomas Dudley Fosbrooke.

Astrology and astral magic: confused notes of astrology (1r–1v, see f. 26r–33v); Pseudo-Pietro d’Abano, *Annulorum experimenta*, incomplete (2r–6v); ‘Sequitur tractatus de sigillis septem planetarum anuli. Hec sigilla et anuli sunt septem...’ (6v–15r); ‘Preceptualis ars magice. Hec est doctrina omnium experimentorum in generali. In convocationem spirituum amorum...’ (15r–17v); Hermann of Carinthia, *Liber imbrum*, beginning only (18r–18v); short notes of astrometeorology ‘Cum volueris pronosticare pluviam per Lune coniunctionem...’ (18v); Thebit Bencora, *De imaginibus* (19r–21r); Hermes/Enoch, *Liber imaginum signorum* attr. Aristotle ‘Extracta ab Aristotile in De secretis secretorum de assumptione medicine et sanguinis minutione...’ (21r–23r); **Ptolemaica** (23r–24r); short note ‘Nota secundum Ovidium De vetula quod eo tempore quo fuit coniunctio maxima Saturni et Iovis in Ariete...’ (24r); astronomical tables (24v–25r); star tables mentioning Petrus de Sancto Audomaro, John of Ligneres and the years 1306–1315 and 1333 (25v); confused notes of astrology (26r–33v, see f. 1r–1v).

Bibl. N. R. Ker, *Medieval Manuscripts in British Libraries*, I: London, Oxford, 1969, 300; P. J. Willetts, *Catalogue of Manuscripts in the Society of Antiquaries of London*, Woodbridge, 2000, 18–19; F. Klaassen, *The Transformations of Magic. Illicit Learned Magic in the Later Middle Ages and Renaissance*, University Park, 2013, 48–49 and 127–34.

23r–24r ‘Opus imaginum secundum consilium Ptholomei est omnibus modis veracius in probatione quoniam eius effectus constitutus est super facies signorum et est certissimum quomodo Albumasar et Arabici et omnes orientales operabantur cum eo — mali vero sint cadentes ab ea et finitur. Explicunt imagines astronomice secundum Ptholomeum.’

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, with significant departure from the standard version (same in MSS →Oxford, BL, Ashmole 346, f. 118r–119r, which was copied on the present MS, and →Oxford, BL, Digby 57). No glosses, subject matters noted in the margin by the scribe.

London, University College, lat. 16

s. XV² (f. 39–133 were copied in 1467 and 1468, and so were certainly f. 3–38, despite the colophon f. 21rb giving the date 1406 (see below), which would rather be the date of the exemplar (as suggested by Ker) or a mistake for 1466). **Or.:** Siena for f. 3–38, if the colophon f. 21rb is reliable: ‘... per me Filipum die penultimo Septembris 1406 in civitate Senarum’; f. 39–69 were copied ‘per me Hainricum Langenbach anno etc. 68’ (f. 69va), and f. 73–123r and 127r–133v by one Paul of Olomouc, cf. ‘... per me Paulum de Olomuncz’ (f. 100rb) and ‘per me Paulum de Iulcrimonte anno nativitatit domini M^oCCCC67’ (f. 116ra).

Paper, 133 f., four contemporary hands (I: f. 3–38; II: f. 39–69; III: f. 73–123r and 127r–133v; IV: 123v–124v).

Astrology, astronomy, medicine and arithmetic: table of contents, added (2v); **Ptolemaica (3ra–17ra)**; Hermes, *Centiloquium* (17ra–18va); *Capitula Almansoris* (18vb–21rb); Gergis, *De significatione septem planetarum in domibus* (21rb–23va); Guillelmus Anglicus, *De urina non visa* (23vb–26ra); onomancy ‘Si vis scire de aliquo an periclitetur vel non, ipsius nomen dividens per 9...’ (26ra–26rb); Arnold of Villanova (?), *De aqua vite* (26va–33rb); ‘Sequitur hic quedam recapitulacio de proprietatibus... aque...’ (33va–34va); ‘Incipit tractatus de iudicendis egris ad salutem vel ad mortem et de urinis non inspectis secundum astrologiam per interrogationem sive questionem. Deus omnipotentis posuit naturas creaturarum et motus...’ (34vb–38ra); ‘Quando a te queretur pro scientia alicuius si est veritas vel mendacium...’ (38rb–38vb); ‘De secreta scientia philosophorum... Secreta scientia philosophorum est apud doctos astrologos...’ (39ra–39vb); Nicolaus de Comitibus, astrometeorology ‘Cum te ab ineunte etate...’ (43ra–69va); Thaddeus of Parma, *Expositio super theoricam planetarum* (73ra–100rb); Alcabitus, *Introductorius* (103ra–116ra); *Astronomia Ypocratis* (117ra–119va); Messahallah, *Liber interpretationum*, chs 1–2 (119va–120ra); *Alchandreana* ‘Nunc illud explicare debemus que stella quot horas dies, menses, annos bene collocata...’ (120ra–121va); *Alchandreana* ‘Si societatem hominum vis prenoscere si bona vel mala fuerit futura cursum Solis et Lune...’ (121va–123ra); *Alchandreana* ‘Item prologus de via accipiendi vel non ... (?)’. Si quis viam aliquam pergere incipiet...’ (123ra–123rb); star table for 1455 (123v–124v); Mattheus Moretus de Brixia, *Introductorium in arithmetica ad calculum astronomie* (127r–127v, repeated 128r–129v); canons of Alfonsine tables ‘Nunc accedam ad expositionem tabularum Alphonsii...’ (129v–132v); ‘Secreta iudicia huius artis sunt valde dispersa in capitulis librorum...’ (133ra–133va). Blank: 1–2r, 40–42, 70–72, 100v–102v, 116v, 125–126.

Bibl. D. K. Coveney, *A Descriptive Catalogue of Manuscripts in the Library of University College*, London, 1935, 15–16; N. R. Ker, *Medieval Manuscripts in British Libraries*, I: London, Oxford, 1969, 345–46; Kristeller 1963–1992, IV, 216; Moulinier-Brogi 2011, 219–20.

- 3ra–3rb ‘<D>ixerunt Ptholomeus et Hermes: Et locus Lune in hora — et hic expertus fuit multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). No glosses.
- 3rb–3va ‘<P>tholomeus <dixit> quod stelle cum caudis sunt novem — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). No glosses.
- 3ra–17ra ‘Incipit liber centum verborum Ptholomei. <D>ixerunt Ptholomeus et Hermes: Et locus Lune in hora — (3rb) et hic expertus fuit multociens. <P>tholomeus <dixit> quod stelle cum caudis sunt novem — (3va) in regibus et divitibus apparebit. <D>ixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... (3vb) Verbum I. <S>cientia stellarum ex te et illis... <Q>uod dixit Ptholomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — et ego Deum precor nisi te diligat. Et prefecta est huius libri translacio. Expletus est liber centum verborum Ptholomei.’
= **Abuifafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. The text opens with Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 3ra–3rb (see above) and *De cometis* (B.4) on f. 3rb–3va (see above). No glosses.

London, Wellcome Library, 2

s. XV² (c. 1475 acc. Moorat). **Prov.:** acquired by the Wellcome Library at an unknown date.

Paper, 8 f., a single neat hand. One folio is missing between f. 5 and 6.

Ptolemaica (single text). Blank: 7r–8v.

Bibl. S. A. J. Moorat, *Catalogue of Western Manuscripts on Medicine and Science in the Wellcome Historical Medical Library, I: Mss Written before 1650 A.D.*, London, 1962, 2.

- 1r–6v ‘Ad videndum fortunam et infortunam omni homini et utrum unocuique homini bene aut male debeat succedere omnibus diebus sue vite, videbis in presenti libro secundum philosophos astronomos subscriptum. Ad inveniendum signum nativitatis cuiuslibet hominis, recipe nomen eius et nomen sue matris... Inferiori corpori reguntur a superioribus ut patet per astrologos et sapientes... (1v) Nota primum signum de Ariete. Natus sub Ariete, a medio Martii usque ad medium Aprilis, erit magne industrie, nec dives nec multum pauper — die Martis et Saturni mali istis fideliter viventibus, tam viris quam mulieribus. Amen.’
= **Pseudo-Ptolemy, *Liber de nativitatibus hominum* (B.11)**, truncated due to the loss of one folio between f. 5 and 6 (end of Sagittarius, Capricorn and beginning of Aquarius). No glosses.

Lund, Universitetsbiblioteket, Klass. förf. (*olim* Math. Fol. 1)

s. XV^{ex}. **Or.:** Italy.

Paper, 289 f., a single neat hand.

Ptolemaica (single text). Blank: 1r–1v (except title f. 1r: 'Andreae Trapezuntii commentaria ad opera mathematica Ptolemaei'), 284v–289v.

Bibl. Norlind 1966, 21; Monfasani 1984, 28; Kristeller 1963–1992, V, 5.

2r–284r 'Andreae Trapenzuntii, Georgii filii, ad divum Xystum pont<ificem> max<imum> in paternis ad Ptolemaeum commentariis praefatio. Cum anno superiori Ptolemaei Almaiestum ab eruditissimo et Christianissimo viro Georgio Trapezuntio, patre meo... (7r) Georgii Trapezuntii ad libros Magnae Ptolemaei compositionis introductio. Caput primum. De divisione omnis circuli et praecipue zodiaci. <Q>uoniam libros Ptolemaei de motibus coelestium, quibus nescio an quicquam altius ac rationis et scientiae via certius inveniri aut fingi possit, ex Graeca lingua in Latinam vertimus... (20r) Expositio Magnae compositionis Ptolemaei a Georgio Trapezuntio facta incipit. Codicis huius quem exposituri gratia salvatoris sumus volumina librique XIII sunt, in quibus Ptolemaeus intendit erratarum stellarum et fixarum motus invenire — maius inter observationes temporis spatium exigit quam vita hominis sit.'
= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.1.19).** Andreas of Trebizond's preface to Sixtus IV, 2r–6v; Introduction, 7r–20r; I, 20r–44v; II, 44v–73v; III, 73v–89r; IV, 89r–102r; V, 102r–134r; VI, 134r–163v; VII, 164r–166r; VIII, 166r–172r; IX, 172r–196v; X, 197r–213r; XI, 213r–227r; XII, 227r–247v; XIII, 247v–284r. No glosses.

Lyon, Bibliothèque Municipale, 172

s. XVⁱⁿ (the years 1418–1420 are given as examples in a section of computus f. 103r). **Or.:** southern Germany. **Prov.:** Lyon, convent of the Grands-Augustins.

Parchment, 124 f., one main hand, magnificently illustrated MS.

Astronomy, astrology and computus: figure of the celestial spheres (1r); comm. on Sacrobosco's *De sphaera* 'Ex quo in hoc libro determinatur de astronomia. Sciendum est quod assignatur differencia inter astronomiam et astrologiam...' (1va–21v); 'Summa principiorum et eorum que oportent presciri in scientiam astronomie et ad librum **Ptholomei** Almagesti, et ad intelligendum Tractatum de spera. Equator diei est circulus maior in spera occulta que describitur super duos polos...' (23r–34r, see Note below), followed by astronomical diagrams at least partly related to the text (34v–40r); on the constellations 'Artophilax sive Boetes: huius manum sinistram circulus...' (41ra–50ra); 'Cubitum autem est in quo longitude, latitude et profunditas...' (51r–51v); **Ptolemaica** (52r–52v); diagram: spheres of Venus and Mercury (53r); astronomical diagram, unfinished (53v); *lunarium* 'Prima die incesionis Lune sanguinem minuere licet tota die, sompnium in gaudium, cito evadet...' (54r–55r); reworked excerpts from

the *Alchandreana* 'Planete que sunt de aqua et foco...' (55r–56v); 'Martii signum sunt Pisces, in quo mense oritur initium Piscis...' (56v–58v); astronomical tables with canons (59r–69r); Robertus Anglicus, *Quadrans vetus* (69v–81r); calendar (83r–88v); table for computing the zodiacal position of the Moon (89r); 'Ad inveniendum quinque festa mobilia per claves anni. Si vis invenire quinque festa mobile...' (89v–92v); astronomical calendar (93r–98v); table for computing the zodiacal position of the Moon (99r), with canon (99r–99v); 'Si quis per hunc kalendarium scire voluerit qua die, qua hora et qua parte hore...' (99v–100v); table: *De electionibus secundum cursum Lune per XII signa* (101r); 'Triginta dies periculosi. Notandum quod quolibet anno sunt 30 dies periculosi...' (101v–102r); 'Sciendum est quod prima hora debet dari Saturno...' (102r–102v); short paragraphs of astrology, astronomy, medicine and computus (102v–103r); table: *horologium* (103v); table for computing the zodiacal position of the Moon (104v); astronomical calendar (105r–110v); computus, in German (111r–119v); *Revelatio Esdrae* 'Feria prima, hiemps bona, ver ventosum, estas sicca...' (121r–121v); 'Quibus terris quodlibet signum presit. Aries habet terram Caldeorum in oriente...' (121v); astronomical tables (124r–124v). Blank: 22, 40v, 50v, 81v–82v, 104r, 120, 122–123.

Note The incipit and several sections of the text f. 23r–34r are similar to Thebit Bencora's *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1), but it is a different and more elaborate astronomical text based on Ptolemy and other authorities. The same text is also preserved in MS $\rightarrow$ Basel, UB, O.IV.4, f. 26r–31r.

Bibl. A.-F. Delandine, *Manuscrits de la bibliothèque de Lyon*, I, Paris-Lyon, 1812, 175–76 (no. 104); *CGMB*, XXX, 33–34; Blume/Haffner 2012–2016, II.1, 480–86.

52r–52v 'In libro de iudiciis planetarum Ptholomeus. Sub Saturno sunt hec signa, Capricornus et Aquarius, et est eius domus, in Libra regnare, in Ariete regnum abstrahit — (Luna) complet cursum suum viginti et octo diebus etc.'
= **Pseudo-Ptolemy, *De motibus et iudiciis planetarum* (B.9)**. No glosses.

Lyon, Bibliothèque Municipale, 328

s. XIV^{ex} (copied in 1393–1395). **Or.:** Paris, copied by Johannes Ladourie (f. 21r: '... finitus Parisius anno Christi 1393^o in vigilia nativitatis domini per manus Iohannis filii Henrici Ladourie'; f. 80v: '... et fuit scriptum Parisius per manus Io<hannis> Ladourie in vigilia conceptionis beate Marie post meridiem, finitum anno Christi 1395^o etc.'). **Prov.:** Lyon, Jesuit College, by 1609 (f. 1r).

Parchment, 80 f., a single hand, painted initials at the beginning of each text.

Astrology and astronomy: Alfraganus, *De scientia astrorum*, tr. John of Seville (1r–21r); Zael, *Liber iudiciorum* (21v–46v, *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*); **Ptolemaica** (47r–58r); Jordanus de Nemore (?), *Demonstratio de algorismo* (59r–63v); Jordanus de Nemore (?), *Demonstratio de minutiis* (63v–68v); **Ptolemaica** (69r–70r); Thebit Bencora, *Liber prestigiorum* (70r–74r); *De utilitatibus astrolabii*, ch. 19 (74r–74v); 'Ut testatur Ergaphalau...' (74v–75r); Albumasar, *Ysagoga minor*, incomplete (75r–78r); **Ptolemaica** (78v–79r); John of Murs, *Figura inveniendi sinus kardagarum* (79v–80v). Blank: 58v.

Bibl. *CGMB*, XXX, 75–76; Samaran/Marichal 1959–1981, VI, 249; Burnett 1987, 184 (no. 70); Lemay 1999, I, 213–14; Bohak/Burnett 2021, 92–93.

- 47r–58r ‘Tractatus de spera corporea in plano ponenda. Quemadmodum Ptolomeus et ante eum non nulli veteris auctoritatis viri antiquas seculi scribunt hystorias... (47v) Cum sit possibile, Iesuri, et plurimumque necessarium ut in plano represententur circuli in speram corpoream incidentes — (57r) et cum meridianis signa distinguuntibus. Si a termino unius diametri circuli recti ducatur... Capitula planisperii sive theorenuata (!). Quoslibet duos circulos — per polum zodiaci necessarie transire habet vel est.’
= **Ptolemy, *Planispherium*, tr. Hermann of Carinthia (A.6.1)**, Class I. Translator’s preface, 47r–47v; text, 47v–57r; *Propositiones planisperii*, 57r–58r (with the two ‘additional chapters’ at the beginning). Interlinear and marginal corrections, apparently by the scribe, especially f. 47r–48v.
- 69r–70r ‘Doctrina stellarum ex te et illis. Nec est docti in ea ut proheret formam actus individualis — [39] supra parvitatem lucris agrorum suorum cum eo.’
= **Pseudo-Ptolemy, *Centiloquium*, tr. Adelard of Bath (B.1.1)**, v. 1–39. No glosses.
- 78v–79r ‘Incipit 25^m theorema primi Gebi (!) super *Almagesti*. <E>t cum iam hoc ostensum sit, incipiamus ostendere semitam qua quod de lateribus trianguli rectilinei et angulis... Glosa. Glosa. Hic incipit ostendere Geber per tria nota — volumus demonstrare. Glosa: Quoniam omnis trianguli — illos angulos etc. Et est finis primi libri Geberi sed hic (?) non est primum etc.’
= **Geber, *Liber super Almagesti* (C.1.2)**, last chapters of Book I (numbered 24–26 in ed. 1534, here numbered 25–28 in the margin), with short alternating ‘glosa’. See Palermo, CSF, 4, f. 7v–10r.

Madrid, Biblioteca Nacional, 10006 (*olim* Toledo 98-16)

s. XIII. **Prov.:** cathedral of Toledo before 1360, when the MS was temporarily confiscated by the royal official Mateo Ferrandes (cf. f. 150r: ‘Matheus Ferrandes’).

Parchment, 150 f., a single neat hand, painted initials f. 1r, decorated initials.

Ptolemaica (single text). Blank: 150v.

Bibl. Millàs Vallicrosa 1942, 151–52; *IGMB*, 287.

- 1r–150r ‘Prologus libri Geber super *Almagesti*. Verba Geber filii Afflay Hyspalensis. Scientia species habet quarum melior — sunt digniores ut evanescant et destruantur. Completa est eius declaratio. Finitur. Hunc librum transtulit in Toletum magister G<erardus> Cremon<ensis> de Arabico in Latinum.’
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1v–2v; I, 2v–13r; II, 13r–29v; III, 29v–36r; IV, 36r–52r; V, 52r–77r; VI, 77r–100r; VII, 100r–125v; VIII, 125v–135v; IX, 135v–150r. Substantial glosses by another hand throughout.

Madrid, Biblioteca Nacional, 10009 (*olim* Toledo 98-20)

s. XIII² (after c. 1262, date of Hermes's *Centiloquium*). **Prov.:** MS glossed by Alvaro de Oviedo, whose name 'Alvarus' appears in two glosses, one with the date 1282 f. 13vb and the other f. 41rb; cathedral of Toledo.

Parchment, 227 f., a single very neat hand, large initial reserved f. 3r, decorated initials.

Astronomy and astrology: astronomical tables for 1209 and 1229, partly empty (1r–2v); canons Cb of Toledan tables 'Incipiunt canones super tabulas astronomie. Quoniam cuiusque actionis quantitate...' (3ra–17ra); astrolabe 'Nos iuxta rectam imaginacionem (!) inchoantes...' (17rb–18rb, ed. Millàs Vallicrosa, 313–16, this text differs from Thebit Bencora's *De recta imaginatione spere et circulorum eius diversorum*); astrolabe 'Astrologie speculationis exercitium causarum habere volentibus...' (18rb–20rb); Pseudo-Messahallah, *De compositione astrolabii* (20rb–23ra); Haly Embrani, *De electionibus horarum* (23va–38va); note 'Memoria, ymago, intentio facere intentionem presentem...' (38va); Pseudo-John of Seville, *Epitome totius astrologie*, Book II (39ra–46vb); Messahallah, *Liber receptionis* (47ra–55va); Alcabitius, *Introductorius* (55vb–70ra); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (70va–84vb); **Ptolemaica (85ra–105vb)**; *Capitula Almansoris* (106ra–108vb); Pseudo-Aristotle, *Iudicia*, attr. Ptolemy: 'Incipit Ptolomei liber...' (109ra–117vb); *Liber Arzachelis introductorius ad librum iudiciorum Arabum* (118ra–125rb); Zael, *De interrogationibus*, incomplete (125rb–128vb); Raymond of Marseille, *Liber iudiciorum*, attr. John of Seville, incomplete (133ra–143ra); *Liber novem iudicum* (145ra–209ra); Zael, *De electionibus* (209rb–213rb); 'Aptatio. Et scito quod tempora excitant motus...' (213rb–218rb, incomplete compilation of interrogations, whose beginning only corresponds to Zael's *Liber temporum*); chapter index of *Liber novem iudicum* (218va–221ra); Hermes, *Centiloquium* (225ra–226vb). Blank: 129–32, 143v–144v, 221rb–224, 227 (except for added notes f. 227v).

Bibl. Millàs Vallicrosa 1942, 166–80; Kristeller 1963–1992, IV, 537; *IGMB*, 288–90; Lemay 1999, I, 215; Pedersen 2002, I, 131.

85ra–105vb 'In nomine patris et filii et spiritu sancti [in upper margin, by the scribe]. De hiis que ad iudiciorum veritatem attiinent (!) cum in illis totus astronomie consistat... (85rb) Astrorum sciencia de te et de illis. Hec in sermone de te et de illis videtur velle Ptholomeus duplicem esse astrorum scienciam... Deinceps quoque ad significationem stellarum signorum — librorum numerus quam sensus avida manu subtrahenda.'

= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Hugo Sanctelliensis (C.3.1.2)**. Glosses by Alvaro de Oviedo. Most of f. 95r and f. 95v have been left blank after the commentary on v. 50, presumably for another commentary on that *verbum* or for an introduction to the much commented upon v. 51.

Madrid, Biblioteca Nacional, 10015 (*olim* Toledo 98-17)

s. XIII^{med} (probably before 1262/1265). **Or.:** northern Spain, perhaps Zaragoza, where the MS was annotated from 1262 to 1265. **Prov.:** cathedral of Toledo.

Paper, 25 f., two similar hands (I, f. 1-15 and 19r–25ra; II, f. 16-19r), with additions by a third hand f. 25vb.

Astrology: **Ptolemaica**, except for two chapters: ‘De elevatione planete super alterum. Elevatio planete super alterum dicitur...’ (15rb, repeated 19ra) and ‘De reversione absentis et eius esse. Volens scire de redditu alicuius absentis...’ (15va); added notes by another hand (25vb, ed. Rodríguez Díaz, 234).

Bibl. Millàs Vallicrosa 1942, 152–54; Lemay 1999, I, 250–52; *IGMB*, 293; E. E. Rodríguez Díaz, ‘Un código astronómico en papel anterior a 1262 (BND, MSS/10015)’, *Documenta & Instrumenta* 22 (2024), 231-47..

- 1ra–15rb ‘... (?) vel Quadripartitum Ptholomei in... (?) tractatu sunt 24 capitula, primum in collectione... iudiciorum astrorum. ... (?) prognosticabilis scientie stellarum profectio magn<as et pre>cipuas duas esse — hoc in loco huic libro, Deo volente, finem inponere non incongruum existimamus. Explicit liber quartus Ptholomei in radicandi discretione per stellas de futuris et in hoc modo constitutionis contingentibus.’
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 1ra–4va; II, 4vb–7vb; III, 7vb–12rb; IV, 12rb–15rb. The upper left corner of f. 1 is torn, making the title and first words of the text illegible. No glosses.
- 15rb ‘Scientia proiectionis radiorum stellarum. Cum proiectionem radiorum stellarum scire volueris, scias gradus ascendentis — et quod collectum fuerit erit locus radiationis equate, id est radiorum erit projectio.’
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6)**. No glosses.
- 16ra–18vb ‘... occidentalium exuunt tarde, scilicet in senectute, marito — hoc in loco huic libro, Deo volente, finem inponere non incongruum existimamus. Explicit liber quartus Ptholomei in radicandi discretione per stellas de futuris et in hoc modo constitutionis contingentibus.’
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**, IV.4–9. This section seems to be mere repetition of the above (f. 1r–15r). A few marginal notes by the scribe.
- 18vb–19ra ‘Scientia proiectionis radiorum stellarum. Cum proiectionem radiorum stellarum scire volueris, scias gradus ascendentis — et quod collectum fuerit erit locus radiationis equate, id est radiorum erit projectio.’
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6)**. This section seems to be mere repetition of the above (f. 15rb). No glosses. F. 19rb is blank.
- 19va ‘De infusione spermatidis et nativitatidis. Dixerunt Ptolomeus et Hermes quod locus Lune in hora — et hoc expertus fuit multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. Glosses by the scribe.

- 19va–19vb ‘Ptolomeus dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.
- 20ra–25va ‘Incipit liber centum verba (!) Ptolomei. V<erbum pri>um. Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et illis est... Glosa sive expositio. Quod dixit Ptolomeus, ex te et illis est, significat quod qui res futuras prenoscere desiderat — et ego Deum precor ut te diligat. Perfectum est huius libri translatio 17 die mensis Martii, 12 die mensis Gumedii secundi anno Arabum 530. Expliciunt centum verba Ptholomei.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. Glosses by the scribe.

Madrid, Biblioteca Nacional, 10053 (*olim* Toledo 98-21)

s. XIII^{med} (after 1246, cf. f. 16v; Bossier et al., xxxix, tentatively date Simplicius’s fragment (f. 36r–37r) to 1264–1265). **Prov.:** Alvaro de Oviedo, who heavily glossed the MS and copied several texts on added folia (f. 1–8, 67–69 and 136v–141v) and originally blank folia (f. 34r, 44, 111 and 118); cathedral of Toledo before 1360, when the MS was temporarily confiscated by the royal official Mateo Ferrandes (cf. f. 156v: ‘Matheus Ferrandes’).

Parchment, 157 f., several neat hands, reserved initials.

Astronomy, astrology and various: Azarchel, *Saphea*, tr. Guillelmus Anglicus (1ra–1vb); Pseudo-Thebit Bencora, *De motu octave spere* (1vb–3rb); Jordanus de Nemore, *De plana spera* (3rb–4r); Alvaro de Oviedo (?), mathematical, astronomical and astrological tables and notes (4v–8v); various astronomical tables related to the Toledan tables (9r–18v), including a table of equal hours ‘ad meridiem Toleti’ (13r–13v) and John of London, star table for 1246 in Paris (16v); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (19ra–27ra); **Ptolemaica (27rb–34ra)**; astrological notes, added by Alvaro de Oviedo (34ra–34rb); ‘Umbram antiqui trifariam diviserunt...’ (35ra–36ra); Simplicius, comm. on Aristotle’s *De caelo* II.12, tr. William of Moerbeke ‘Super illum locum Aristotelis in secundo De celo...’ (36ra–37vb); Pseudo-Aristotle, *De inundatione Nili* (38ra–38vb); *De bona fortuna* (38vb–39vb); Aristotle, *Ethica ad Eudemum*, incomplete (39vb–40ra); Zenodorus, *De isoperimetris* (40rb–41rb); ‘Isoperimetrorum isopleurorum circulis contentorum...’ (41rb–43vb); notes on motion, added by Alvaro de Oviedo (44r–44v); Zael, *Liber iudiciorum* (45va–56vb, including *De electionibus*, *Liber temporum* and a selection of chapters from *De interrogationibus*); *Tabula prenostica Salomonis* (57r–59v); calendar (60r–66v); Abraham Avenezra, *Liber de rationibus tabularum* (67ra–76ra); William of Hirsau, *De statu mundi* (76ra–76rb); astrolabe ‘Qui vult in quolibet loco scire...’ (76rb–76va); Messahallah, *Liber receptionis* (77ra–82vb); Gergis, *De significatione septem planetarum in domibus* (82vb–84ra); Messahallah, *Epistola de rebus eclipsium* (84ra–85ra); Messahallah, *Liber interpretationum* (85ra–86ra); Messahallah, *De cogitatione* (86ra–86va); Johannes Hispanus, *Sententie de diversis libris* (86va–88vb); **Ptolemaica (89ra–110vb)**; diagrams and notes on the astrolabe, added by Alvaro de Oviedo (111r–111v); Ibn al-Šaffār, *De opere astrolabii*, tr. John of Seville (112ra–117vb); notes on the

astrolabe, added by Alvaro de Oviedo (118r–118v); **Ptolemaica (119ra–130vb)**; Messahallah, *De revolutionibus annorum mundi* (132ra–136ra); Aomar, *De nativitatibus* (136va–141vb); Alpetragius, *De motibus celorum* (143r–156v). Blank: 34v, 45r, 131, 142, 157.

Bibl. Millàs Vallicrosa 1942, 180–202; Kristeller 1963–1992, IV, 538; *IGMB*, 313–14; Pedersen 2002, I, 132; *Simplicius. Commentaire sur le traité Du ciel d'Aristote. Traduction de Guillaume de Moerbeke*, I: F. Bossier, C. Vande Veire, G. Guldentops, *Edition critique*, Leuven, 2004, xxiii–xxiv.

- 27rb–34ra ‘<S>ignororum alia sunt masculini generis, alia feminini... (33rb) Ut autem de ipsorum mutatione particulariter nosse — aliquod siccum vel lignum.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**. The text includes Pseudo-Aristotle’s *De Luna* on f. 32vb–33rb and Pseudo-Ptolemy’s *De temporum mutatione* (B.12) on f. 33rb–33vb (see below). Substantial glosses by a contemporary or somewhat later hand.
- 33rb–33vb ‘Ut autem de ipsorum mutatione particulariter nosse verum desideraveris, regule que non dicentur a tuo animo non labantur. <P>rima die mensis Septembris, Icarus, per custos plaustris, apparet cum Solis ortu — et in planeto (!) illius turris habetur dominium totius anni.’
= **Pseudo-Ptolemy, *De temporum mutatione* (B.12)**, as part of the previous text. Substantial glosses by the same hand as above.
- 89ra–110vb ‘Quadripartitus Ptholomei [title added in upper margin by a later hand]. <D>e hiis communiter que ad totum librum pertinent. Quid potissimum per astronomiam valeat... (table). <I>uxta providam philosophorum assertionem quos videlicet in prescientia futurorum — in modesti libidini abrenuncians...’
= **Ptolemy, *Quadripartitum*, tr. Hugo Sanctelliensis (A.2.2)**. I, 89ra–96rb; II, 96rb–102rb; III, 102rb–107rb; IV, 107rb–110vb. Abrupt end in IV.10 at the bottom of f. 110v. Glosses by several hands, including substantial glosses by Alvaro de Oviedo.
- 119ra–130vb ‘<P>ostquam accidentia generalia in hiis que ex nostra observatione premissa sunt — Rebus itaque nativitatum generaliter explicatis hoc in loco huic libro finem imponere non incogruum existimamus.’
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**, Books III–IV. III, 119ra–126ra; IV, 126ra–130vb. Glosses by Alvaro de Oviedo.

Madrid, Biblioteca Nacional, 10063 (*olim* Toledo 98-19) [Plate 6]

s. XIII^{ex} (probably between 1279 and 1282 for the sections copied by Alvaro de Oviedo, cf. horoscopes dated 1279 and 1282 f. 13r–14v and 53v; the MS also contains Alvaro’s autograph copy of his comm. on Averroes’s *De substantia orbis*, f. 56–74, composed c. 1281, cf. Hernández/Linehan 2004, 310 and n. 39). **Or.:** MS mainly copied in Italy and Toledo by Alvaro de Oviedo (f. 13–75), who also glossed f. 1–13. **Prov.:** cathedral of Toledo.

Parchment, 76 f., two hands: I, f. 1–13ra; II [Alvaro de Oviedo], f. 13ra–75, reserved initials.

Astrology and astronomy: Alcabitus, *Introductorius* (1ra–10ra); Pseudo-John of Seville, *Epitome totius astrologie*, Book IV (10va–12ra); astrolabe ‘Astrologie speculationis exercitium causarum habere volentibus...’ (12ra–13ra); Alvaro de Oviedo, 15 horoscopes with notes (13r–14v), the first of which is an election cast for 23 November 1279 in Rome (‘Rome ad duas tertias hore tertie 23 diei mensis Novembris anni domini 1279 pro vestibus induendis electio’) and the twelfth is dated 1282; **Ptolemaica** (15ra–22rb, 22rb and 22va–23va); *Astronomia Ypocratis* (23va–24va); *Somniale Danielis* (24va–25ra); *lunarium* ‘Luna prima quicquid sompniaverit ad gaudium pertinet...’ (25ra); Haly Embrani, *De electionibus horarum* (27ra–32ra); Zael, *Liber iudiciorum* (32rb–40ra); Jafar, *Liber imbrium* (43ra–44rb); astrometeorology ‘Anni revolutionem sic iudicabis...’ (44rb–44vb); Albumasar, *De revolutionibus annorum mundi* (45ra–50ra); Albumasar, *Flores* (50rb–53rb); Alvaro de Oviedo, two horoscopes with notes, with mention of the year 1282 in Toledo (53v); Alvaro de Oviedo, comm. on Averroes’s *De substantia orbis* (56ra–75vb). Blank: 25v–26v, 40v–42v, 54–55, 76.

Bibl. Millàs Vallicrosa 1942, 156–66; Kristeller 1963–1992, IV, 538; *IGMB*, 318–19.

- 15ra–22rb ‘Expositiones in quartum Quadripartiti et sunt sententie H<aly> [title in upper margin by the scribe, Alvaro de Oviedo]. Res igitur in quibus ea que ante partum: d<e> h<oc> quod ea que ante partum sunt sunt — (22ra) quia vapores iam incipiunt annullari et desiccare primum. Explicit. Domino Ihesu Christo gratie infinite. Amen, amen, amen. (22rb) <C>um proiectionem radiorum stellarum scire volueris, scias gradus ascendentis — et quod collectum fuerit erit locus radiationis equate. Explicit liber proiectionis radiorum sapientissimi Ptho<lome>i. Hunc eundem modum docet H<aly> super t<extu>m (?) Quadripartiti [title in the margin in Alvaro de Oviedo’s hand]. Dixit Haly: Scias quod hec equatio accipitur per 4 angulos proportionaliter, cuius primus est medietas arcus diei, scilicet 6 hore — prime Quadripartiti.’
= **Alvaro de Oviedo, *Haly Expositiones in Quadripartitum* (C.2.3).** Book IV, 15ra–17ra; III, 17ra–20va; I, 20va–21ra; II, 21ra–22ra; Pseudo-Ptolemy’s *Liber proiectionis radiorum stellarum* (see below) with comm. attr. Haly, 22rb. A few marginal notes by the scribe (Alvaro de Oviedo) and perhaps by another, contemporary hand.
- 22rb ‘Liber proiectionis radiorum Ptholomei [title in upper margin by the scribe, Alvaro de Oviedo]. <C>um proiectionem radiorum stellarum scire volueris, scias gradus ascendentis — et quod collectum fuerit erit locus radiationis equate. Explicit liber proiectionis radiorum sapientissimi Ptho<lome>i.’
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6),** as part of the previous text. No glosses.
- 22va–23va ‘Liber partium Ptholomei in iudiciis partium 12 domorum [title in upper margin by the scribe, Alvaro de Oviedo, followed by a section added by another hand: “... (?) enim totum ab Hermete”]. Quoniam in primo libro partium terminos et loca posuimus, iudicia earundem summistare curavimus. Pars fortune eiusque dominus corpus et que ad corpus attinent significant — aut eius domini hiis 12 mensibus imitatur. Explicit.’
= **Pseudo-Ptolemy, *Liber de iudiciis partium* (B.8).** No glosses.

Madrid, Biblioteca Nacional, 10113 (*olim* Toledo 98-15)

s. XIII¹ (between 1220 and 1240 acc. Georges). **Or.:** southern, probably Bologna, by a scribe who displays English features (Georges). This scribe also copied MS $\rightarrow$ Madrid, BRAH, 97 and Madrid, BN, 10010 (see Rejected manuscripts, Appendix III), and the three MSS, originally distinct from one another (the general appearance, decoration and size greatly vary between them), were bound together sometime before 1360, then split up again by 1455 (see below).

Prov.: Alvaro de Oviedo glossed the MS in 1280 (see below), when he was travelling in Italy with the archbishop of Toledo Gonzalo Pérez (1280–1299), and it is probably through either man that the MS reached the cathedral of Toledo. In 1360, the MS — at that point bound with the two other Madrid MSS — was confiscated by the royal official Mateo Ferrandes (cf. f. 134v: ‘Matheus Ferrandes’) and was later returned to the cathedral library, where it appears, on its own, in the inventory of 1591, while Madrid, BN, 10010 was already recorded on its own in the earlier inventory of 1455 (see Georges).

Parchment, 134 f., a single neat hand, decorated initials.

Ptolemaica (single text). Blank: 134v.

Bibl. Millàs Vallicrosa 1942, 148–51; Kunitzsch 1974, 93; Kristeller 1963–1992, IV, 538; Kunitzsch 1986–1991, II, 17; *IGMB*, 343; Georges (forthcoming).

1ra–134r ‘Incipit prima dictio libri Almagesti de disciplinalibus [title in upper margin, hand of the scribe]. Quidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (1va) Capitulum primum de excellentia huius artis et fine eius utilitatis. Bonum quod fecerunt in eo quod video illi qui perscrutati sunt... (2ra) Ecce ubi primi capituli prime dictionis initium dedit. Bonum domine fuit quod sapientibus non deviantibus visum est — per ipsum prolongationem et abbreviationem, tunc iam sequitur ... (?) ponamus hic finem libri. Expleta est dictio XIII^a libri Ptolomei et cum ea completur liber Almagesti de disciplinalibus, quem magister Giralodus (!) Cremonensis de Arabico in Latinum transtulit.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 1ra–1va; I, 1va–10r; II, 10r–24v; III, 24v–31v; IV, 31v–40v; V, 40v–52r; VI, 52r–63r; VII, 63r–71v; VIII, 72r–80r; IX, 80r–95r; X, 95r–103v; XI, 103v–115v; XII, 115v–124v; XIII, 124v–134r. Chapter I.1 is given in two versions: Ishāq’s version, 1va–2ra, and the standard al-Ḥajjāj’s version, 2ra–2va. Substantial glosses by the scribe and a few glosses by later hands, including by Alvaro de Oviedo, who, on f. 71r, gave the value of the precession as 15°20′ for the year 1280.

Madrid, Biblioteca de la Real Academia de la Historia, 97

s. XIII¹. **Or.:** MS copied by the same scribe who copied MS $\rightarrow$ Madrid, BN, 10113. **Prov.:** cathedral of Toledo probably from the late 13th c. until 1360 (see MS $\rightarrow$ Madrid, BN, 10113); Madrid, Biblioteca de los Reales Estudios de San Isidro.

Parchment, 139 f., a single hand, at least one folio is missing at the end.

Ptolemaica (single text). Ex-libris and notes (inner front cover), including ‘Commentum Almagesti Ptholomei, est liber astrorum’, late medieval hand. Blank: 139.

Bibl. Kristeller 1963–1992, IV, 509; E. Ruiz García, *Catálogo de la sección de códices de la Real Academia de la Historia*, Madrid, 1997, 475–76.

1r–138v ‘Prima dictio [upper margin, perhaps by another hand]. Quod perpendicularis cadens ex extremitate arcus super diametrum productam ab extremitate eius secunda sit sinus eius... (2r) In capitulo secundo Almagesti, sciendum est universaliora esse preponenda aliis et sensibilia particularia minus sensibilibus — (138r) similiter capitulum istud planum est et nichil est in eo dicendum. Finite sunt notule Almagesti. Sciendum est quod in secundo libro est quiddam de proportionibus quod non est ibi bene enucleatur — esse est sine motu et non...’

= **Gerard of Cremona, *Notule Almagesti* (C.1.3)**. Opening, 1r–2r; I, 2r–12v; II, 12v–20r; III, 20r–34r; IV, 34r–48r; V, 48r–73r; VI, 73r–90v; VII, 90v–94r; VIII, 94r–98v; IX, 98v–108v; X, 108v–116r; XI, 116r–121r; XII, 121r–127v; XIII, 127v–138r; additional notes (incomplete due to one missing folio), 138r–138v. Marginal notes by the scribe and by several later hands.

Madrid, Biblioteca de la Real Academia de la Historia, Cortes 2787

s. XVI². **Or.:** f. 1–212 are the exact replica of Francesco Maurolico’s collection of astronomical works published by Petrus Spira in Messina in 1558. According to Moscheo, the MS was copied on this edition by someone close to Maurolico and the diagrams, as well as some marginal notes, are in Maurolico’s hand.

Paper, 237 f., one main hand.

Astronomy and mathematics: Theodosius, *Spherica*, tr. Gerard of Cremona (1r–49r); Menelaus, *Spherica* (49v–134v); Francesco Maurolico, *Sphaerica* (134v–183v); Autolycus, *De sphaera mota* (183v–185v); Theodosius, *De habitationibus* (185v–188r); Euclid, *Phaenomena* (188r–194r); Francesco Maurolico, mathematical tables with canons (195r–200r); Francesco Maurolico, *Compendium mathematicae* (200r–212v); **Ptolemaica** (220r–236v). Blank: 194v, 213–19, 237.

Bibl. M. Clagett, ‘The Works of Francesco Maurolico’, *Physis* 16 (1974), 149–98: 165; R. Moscheo, *Francesco Maurolico tra Rinascimento e scienza galileiana. Materiali e ricerche*, Messina, 1988, 258–61.

220r–236v ‘Gebri filii Affla Hispalensis de astronomia. Liber primus. Prooemium. Scientia species habet quarum melior post scientiam — per illam quantitatem et illud est cuius voluimus declarationem. Finis primi libri Gebri.’

= **Geber, *Liber super Almagesti* (C.1.2)**. Preface and Book I. No glosses.

Madrid, Universidad Complutense – Biblioteca Histórica, cod. 122

s. XVI¹. **Prov.:** Colegio Mayor de San Ildefonso of the University of Alcalá before 1565 (ex-libris f. 1r: 'Librería del Colegio mayor 44C').

Paper, 159 f., a single hand.

Ptolemaica (single text). Blank: 159v.

Bibl. J. Villa Amil y Castro, *Catálogo de los manuscritos existentes en la Biblioteca del Noviciado de la Universidad Central*, Madrid, 1878, 45; Kristeller 1963–1992, IV, 587; J. Signes Codoñer, C. Codoñer Merino, A. Domingo Malvadi, *Biblioteca y epistolario de Hernán Núñez de Guzmán (El Pinciano). Una aproximación al humanismo español del signo XVI*, Madrid, 2001, 61–63; A. Domingo Malvadi, 'La enseñanza del griego en Alcalá de Henares. The Teaching of Greek in Alcalá de Henares', in *V Centenario de la Biblia Políglota Complutense. La Universidad del Renacimiento. El Renacimiento de la Universidad*, ed. J. L. G. Sánchez-Molero, Madrid, 2015, 395–415: 400 and 405–09; A. C. Domínguez Alonso, *La parafrasi bizantina di Isaac Argiro del Commento Anonimo al Tetrabiblos di Tolomeo. Edizione critica bilingue*, PhD dissertation, Università di Salerno, 2019, CLIV–CLVII and CLXI–CLXII; A. López Fonseca, M. Torres Santo Domingo, E. Ruiz García, *Catálogo de manuscritos medievales de la Biblioteca Histórica «Marqués de Valdecilla» (Universidad Complutense de Madrid)*, Madrid, 2019, 559–61; T. Martínez Manzano, 'Ptolomeo en la Alcalá renacentista', in *Curiositas nihil recusat. Studia Isabel Moreno Ferrero dicata. Estudios dedicados a Isabel Moreno Ferrero*, eds J. A. González Iglesias, J. Méndez Dosuna, B. M. Prósper, Salamanca, 2021, 305–25.

1r–159r 'Hec insunt in primo libro Quadripartiti Ptolemaei. I. Quod praenotio (*corr. ex* precognitio) que per astronomiam fit comprehendi possit et quatenus... Claudii Ptolemei conclusivi quadripartiti ad Syrum liber primus. Proemium. Cum duo maxima sint eademque precipua, Syre, que prognosticationem quae per astronomiam — sed ob rei necessitatem magis particularia capitula conticuerit. Τέλος,'
= Isaac Argyros, *(Paraphrasis in Anonymum commentum in Quadripartitum)* (C.2.16). Book I, 1r–43v; II, 44r–81r; III, 81v–133r; IV, 133r–159r. Numerous corrections by the scribe.

Manchester, John Rylands Library, 66

s. XV² (1474, cf. f. 217v: 'Explicit liber introductorii maioris Albumasaris anno domini 1474'). **Or.:** 'a clear Flemish Gothic hand' (James). **Prov.:** Earl of Crawford (as noted by Kunitzsch this is the MS described as the 'Crawford Codex' in C. H. F. Peters, E. B. Knobel, *Ptolemy's Catalogue of Stars. A Revision of the Almagest*, Washington, DC, 1915, 22, no. 27); John Rylands Library since 1901.

Parchment, 169 + 123 f., two volumes continuously foliated (no. 66: f. 1–169; no. 67: f. 170–292), which originally formed a single volume, a single neat hand, painted initial at the beginning of each book of the *Almagest*, numerous decorated initials. I have not seen MS 67.

Astronomy and astrology: **Ptolemaica (1r–169r)**; Albumasar, *Introductorium maius*, tr. Hermann of Carinthia (170v–217v); Pseudo-Messahallah, *De compositione astrolabii* (218r–231r); Robertus Anglicus, *Quadrans vetus* (232r–236r); astronomical tables (236v–241v); Petrus de Sancto Audomaro, *Quadrans novus* (242r–254r); Ibn al-Šaffār, *De opere astrolabii*, tr. John of Seville (255r–261r); John of Saxony, *Canones* (261v–269v); Alfonsine tables (270r–292r). Blank: 169v, 254v.

Bibl. M. R. James, *A Descriptive Catalogue of the Latin Manuscripts in the John Rylands Library at Manchester*, Manchester, 1921, 128–29; Pedersen 1983–1984, II, 578; Kunitzsch 1986–1991, II, 21; Lemay 1995–1996, VII, 119–20.

1r–169r ‘Quidam principes nomine Albugaefe in libro suo quem scienciarum electionem et verborum nominavit... (1v) Inicium capituli primi prime dictionis. Bonum fuit scire quod sapientibus non divinantibus (!) visum est — per ipsam per elongationem et abbreviationem, tunc iam sequitur et honestum est ut ponamus hic finem libri.’
 = **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 1r–1v; I, 1v–13r; II, 13r–30v; III, 30v–42v; IV, 42v–54v; V, 54v–72r; VI, 72r–86v; VII, 86v–96v; VIII, 96v–105v; IX, 105v–115r; X, 115v–126r; XI, 126r–142r; XII, 142r–150v, 152r–154r, 151r–151v and 156r–156v; XIII, 154r–155v and 157r–169r. No glosses.

Melbourne, State Library of Victoria, RARES 091 P95A (*olim* *f. 091/P95A)

s. XIII¹ (f. 1–173, around the 1220s acc. Georges; early 14th c. for f. II and 174–93). **Or.:** Bologna (Georges). **Prov.:** Thaddeus of Parma, who glossed the MS and copied f. II and most of 174–93; Florence, convent of San Marco, by 1500; J. T. Payne c. 1830; Thomas Phillipps in 1833 (no. 6551); bought by the State Library of Victoria from the bookseller William H. Robinson in 1949.

Parchment, II + 193 + II^a f. The original core of the MS consisted of f. 1–173, copied in a single neat hand and richly decorated, with painted initials at the beginning of each section of the *Almagest* and decorated initials throughout. The rest of the MS was added by two hands: a professional Bolognese scribe, who copied f. 176ra–182va, and Thaddeus of Parma, who copied f. II, 174r–175v and 182va–193v, and also heavily glossed both the beginning of the *Almagest* (see below) and the beginning of the *Theorica planetarum Gerardi* (f. 175v, originally blank, and f. 176ra–177va; these glosses were continued by a contemporary hand f. 177vb–183v). One or several folia are missing after f. 193.

Ptolemaica (single text) (f. 1–173). The added parts deal with astronomy and astrology: Campanus of Novara, *De figura sectore* (IIra, with diagrams IIrb); notes ‘Conclusiones Almagesti. Incipiunt conclusiones prime dictionis. Data circuli dyametro latus decagoni...’ (IIva); **Ptolemaica (1ra–173va)**; incomplete astronomical diagram (174r); astronomical/astrological bibliography ‘Astrologia que de celestibus corporibus facit theoriam pre ceteris scientiis est necessaria...’ (175ra–175rb); *Theorica planetarum Gerardi* (176ra–183ra, with Thaddeus’s glosses starting on f. 175v, originally blank, and ending on f. 183va, also originally blank); Johannes de Harelbeke, *Tractatus de spera solida* (184ra–187ra); Petrus de Sancto Audomaro, *Tractatus de semissis* (187rb–189vb); Costa ben Luca, *Liber de opere spere*

volubilis (189vb–192rb); Abraham Avenezra, *Principium sapientie*, tr. Pietro d’Abano, end gone (192va–193vb). Blank: I, 174v, I^a–II^a.

Note The ‘Conclusiones Almagesti’ f. IIva consists of nine short propositions (21 lines) related to *Almagest*, I.9.

Bibl. K. V. Sinclair, ‘An Unnoticed Astronomical and Astrological Manuscript’, *Isis* 54 (1963), 396–99; K. V. Sinclair, *Descriptive Catalogue of Medieval and Renaissance Western Manuscripts in Australia*, Sydney, 1969, 382–86 (no. 224); Ullman/Stadter 1972, 208 (no. 734); Kristeller 1963–1992, III, 4; Pedersen 1983–1984, II, 657; M. M. Manion, V. F. Vines, *Medieval and Renaissance Manuscripts in Australian Collections*, London, 1984, 95–96; Kunitzsch 1986–1991, II, 17; C. Burnett, ‘Why Study Ptolemy’s *Almagest*? The Evidence of MS Melbourne, State Library of Victoria, Sinclair 224’, *La Trobe Journal* 81 (2008), 127–43; Georges (forthcoming).

1ra–173va ‘Incipit liber Almagesti. Quidam princeps nomine Albugaſe in libro ſuo quem ſcienciarum electionem et verborum nominavit... (1va) Ecce ubi primi capituli prime dictionis initium dedit. Bonum domine hec dicit lectori fuit quod ſapientibus non deviantibus viſum eſt — (172va) per prolongationem et abbreviationem, tunc iam ſequitur et honeſtum eſt ut ponamus hic finem libri. Expleta eſt dictio tertia decima libri Ptolomei et cum ea completur liber Almageſti de diſciplinilibus. Bonum, o Sure, fuit quod ſapientibus non fallacibus viſum eſt — (173ra) ſecundum quantitatem noſtre virtutis. Bonum, Sure, hoc lectori dicit — ſtudento in operatione. Capitulum primum in prologo huius libri. Bonum quod fecerunt in eo quod video et illi qui preſcrutati — neque conſecuti ſunt ex eius comprehenſione quod oportet.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 1ra–1va; I, 1va–13va; II, 13va–33va; III, 33va–44ra; IV, 44ra–57va; V, 57va–73vb; VI, 73vb–89v; VII, 90ra–99r; VIII, 99va–107vb; IX, 107vb–124rb; X, 124rb–134ra; XI, 134ra–149vb; XII, 149vb–161r; XIII, 161va–172va. The explicit is followed by three items: (1) ch. I.1 in al-Ḥajjāj’s version, but in a different recension, perhaps its first draft acc. Burnett, 133 (same in MSS →Cambrai, BM, 953, f. 328ra–329rb, and →[ZZ] *olim* Robert B. Honeyman Jr., no. 14, pp. 353–54), 172va–173ra; (2) the beginning of a commentary (11 lines) on ch. I.1, on the basis of its various versions, including item 1 above, 173ra; (3) ch. I.1 in Iṣḥāq’s version, 173ra–173va. Glosses by the scribe throughout, sometimes substantial. A few glosses by a contemporary or somewhat later hand in Book I (e.g., f. 11v and 12r). Very substantial glosses by Thaddeus of Parma f. 1r–6r, 10v and 13r–13v (see above).

Melk, Stiftsbibliothek, 601 (*olim* 51)

s. XV^{med} (the date 1460/1461 is recurrent, cf. precessional increment for 1460 on f. 204v and for 1461 on f. 68r and 253r, and astronomical table starting in 1461 on f. 190v; other dates

include 1448 (see below), precessional increments for 1415 and 1431 on f. 68r, star catalogue verified in 1424 on f. 112r–123v, and 1438 for f. 219r–252r, cf. note f. 251v: ‘Et sic est finis tabularum primi mobilis anno domini 1438 incompleto, 17 die mensis Maii’), except for f. 210–218, said to have been copied in 1393 (f. 218va: ‘anno domini 1393° finitus et completus per manus Wcwuc (?)’). **Or.:** Germany, probably Würzburg or its region (cf. the solar table made in 1448 at the meridian of Würzburg, which occurs three times, on f. 15vb, 69vb and 76ra; see also Georges), with material coming from Erfurt (f. 192v and 219r–252r, also tables for the latitude 51°, f. 29r and 31v–32v) and from the monastery of Reichenbach (f. 33v–36r). The reason why Glassner locates the MS in Austria is unclear and North’s hypothesis that ‘the items in this codex were assembled in England, and taken to Melk subsequently’ (North, 129) is also unlikely. **Prov.:** Hanns Geyer, high official of Emperor Maximilian I, in 1506 (cf. f. 1r: ‘Das puch ist Hannsenn Geyrs 1506’); monastery of Melk by 1517.

Paper, II + 300 f., several hands, of which one recurs through f. 1–188, one copied f. 199–209 and one copied f. 255–300. Several folia seem to be missing before f. 210.

Astronomy and astrology: table of contents by Vinzenz Staufer, librarian of Melk (d. 1889) (Ir); John of Ligneres, *Canones primi mobilis* (1ra–9ra); astrolabe ‘Cum ascensiones signorum vel cuiuslibet gradus signi...’ (9rb–17r); ‘Modus inscriptionis stellarum fixarum rethi per distantiam earum ab ecliptica. Cum diviseris circulum signorum...’ (17va–17vb); Cristannus de Prachaticz, *Usus astrolabii* (18ra–26vb); ‘Compositio spere de media coniunctione et oppositione Solis et Lune, similiter de signis et gradibus eorundem quolibet die. Volens formare figuram circularem...’ (27ra–27vb); ‘Compositio instrumenti ad inveniendam veram coniunctionem vel oppositionem. Ad formandam figuram...’ (28ra–28v); astronomical tables (29r–33r), including ‘Tabula diversitatis aspectus Lune ad Solem extra septimum clima et latitudine 51 gradus’ (29r) and table of houses for latitude 51° (31v–32v); ‘Compositio pro formatione chilindri per quendam fratrem in monasterio Richenbach [Reichenbach] composita’ (33va–36rb); ‘Habito horologio in plano bene correcto...’ (36rb–38rb); astronomical tables (38v–53v), one of which for the meridian of Padua (40v); Alfonsine star catalogue (54r–68r), with precessional increment for 1415, 1431 and 1461 (68r); Robertus Anglicus, *Quadrans vetus* (68va–73rb); Prophatius Judeus, *Quadrans novus* (73va–81ra); Johannes de Harelbeke, *Tractatus de spera solida* (81rb–86va); John of Ligneres, *Canones* (86vb–105va); ‘In compositione almanach sic procede...’ (105vb–106vb); Petrus de Sancto Audomaro, *Tractatus de semissis* (107ra–111rb); Ptolemy’s star catalogue verified 1424 (112r–123v); astronomical tables (124r–131r); Richard of Wallingford, *Tractatus Albionis* (134ra–161v); albion ‘Sequitur compositio duorum instrumentorum. Pro faciliiori modo habendo...’ (162ra–183va); canons of astronomical tables ‘Tempus eclipsis Lune invenire...’ (184ra–188rb); astronomical tables with canons (188v–191v); ‘Tabula mediarum coniunctionum Solis et Lune super meridianum Erfordensis’ (192v); Richard of Wallingford, *Canones super quatuor tabulis* (193ra–194vb); ‘Item sinus cuiuslibet portionis circuli est dimidium corde...’ (195ra–195vb); John of Genoa, *Canones eclipsium* (196ra–197va); **Ptolemaica (199ra–209r)**; astronomical and astrological notes (209v); Henry of Langenstein, *De reprobatione eccentricorum et epiciclorum*, beginning gone (210ra–218va); Firminus de Bellavalle, judgement on the great conjunction of 1345, attr. John of Murs (218va–218vb); Alfonsine tables adapted for Erfurt (219r–252r); Henricus Selder, star tables for 1340 (252v–253r); canons of astronomical tables ‘Verum locum Saturni, Iovis...’

(253va–254vb); John of Saxony, *Canones* (255r–267v); astronomical and astrological tables and notes (268r–274r); Alfonsine star catalogue (274v–279r); ‘Canones tabularum magistralium. Nota ad inveniendum verum locum Solis...’ (279v–282r); **Ptolemaica** (282v–293r); tables: mundane prognostics according to planetary conjunctions (?) in the 12 signs ‘Expliciunt tabule pre...ales (?) de elevatione planetarum ... (?) Anglia Iohannis de Guiden (?)’, i.e. John of Gmunden? (293v–300r). Blank: Iv–IIv, 17r, 111v, 131v–133v, 145r, 192r, 198, 300v.

Bibl. *Catalogus codicum manu scriptorum, qui in bibliotheca monasterii Mellicensis O.S.B. servantur*, Melk, 1889, 95–101 (no. 51); North 1976, II, 128–29, 134–35 and 274; Pedersen 1983–1984, II, 657; Lemay 1999, I, 229; S. Glassner, *Inventar der Handschriften des Benediktinerstiftes Melk, I: Von den Anfängen bis ca. 1400*, Wien, 2000, 270–75; Georges (forthcoming).

199ra–209r ‘Textus Almagesti in se [added by another hand, upper margin]. <Q>uidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (199va) onum scire fuit quod sapientibus non deviantibus visum est — (203v) cum arcu noto cordam habentem notam. Et hec est tabularum descriptio’ (followed by tables, 203v–209r).

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, beginning and excerpts. Preface, 199ra–199va; I.1–11 and incomplete tables from I.13 and II.8, 199va–203v; selection of planetary tables from the various books, 204r; star catalogue, 204v–209r. Marginal notes by the scribe f. 199ra, 202v and 204v. Precessional increment for the time of the Alfonsine tables (+ 17°08’) and for 1460, 204v.

282v–293r ‘<M>undanorum ad hoc et ad mutatio (!) ex corporum celestium mutatione procedit, causas que rerum rimaturus per corpora celestia contemplari (!) oportet. Ptolomeus (!): Item premisi libros in quibus tractavi de impressionibus planetarum in hoc mundo ... Sciencia astrorum ex te et illis, nec convenit peritum illorum prophetare... Dixit Ptolemeus, ex te et illis, significat (?) quod cum qui res futuras prescire vult — (292v) et quanto melius quivimus exposuimus. Dixit Pto<lome>us: Stelle cum caudis 9 nomina (?) se habent — in regibus et divitibus apparebit. ... (?) Centilogii Ptho<lome>y qui est liber amphorismorum centum propositionum.’

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**. The opening sentence is from ‘Mundanorum’, v. 1–21 from the ‘Iam premisi’ version (C.3.1.4) and v. 22–100 from ‘Mundanorum 2’ (same version in Erfurt, UFB, Dep. Erf. CA 2^o 379 and Erfurt, UFB, Dep. Erf. CA 4^o 376). No glosses. The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 105ra–105va (see below). Glosses by the scribe or a similar hand. The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 292v–293r (see below). No glosses.

292v–293r ‘Dixit Pto<lome>us: Stelle cum caudis 9 nomina (?) se habent — in regibus et divitibus apparebit.’

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.

- 293r 'Dixit Pto<lome>us et Hermes quod Lune locus in hora — ex hoc expertus fuit ... (?).'
 = **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.

Memmingen, Stadtarchiv, 2° 2,33

s. XV² (1466 for f. 199r–230r, cf. f. 230rb: 'Et est finis. Anno 1466, 3^e ydiis Septembris'). **Or.:** Germany, perhaps Speyer (Georges).

Paper, I + 258 f. only sporadically numbered in pencil, five contemporary hands: I, f. 1r–148v; II, f. 152r–198v; III, f. 199r–230r; IV, f. 230v–233r; V, f. 235r–257r; painted initial f. 1r.

Astronomy and astrology: ***Ptolemaica* (1r–148v and 152r–198v)**; Campanus of Novara, *Theorica planetarum* (199ra–230rb); astrological elections 'De introitu balnei. Melior pars sapientum astrologorum...' (230va–233rb); Richard of Wallingford, *Tractatus Albionis* (235ra–257r). Blank: 1r–1v, 149r–151v (in fact six folia only partially numbered), 233v–234v, 257v–258v.

Bibl. F. Hudry-Bichelon, 'Notes sur divers manuscrits latins conservés en Allemagne du Sud', *Bulletin d'Information de l'Institut de Recherche et d'Histoire des Textes* 13 (1964–1965), 9–28: 19–20; Benjamin/Toomer 1971, 113–14; Kristeller 1963–1992, III, 610; Kunitzsch 1986–1991, II, 21; Zepeda 2018, 58; Georges (forthcoming).

- 1r–148v 'Quidam princeps nomine Albugaue quem scienciarum eleccionem et verborum nominavit... (1v) Bonum scire fuit quod sapientibus non deviantibus visum est — prolongacionem et abbreviacionem, tunc iam sequitur et omnes (?) est ut ponamus hoc fine libri. Deo gracias.'
 = **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Classes A and B mixed. Preface, 1r–1v; I, 1v–12r; II, 12r–28r; III, 28r–39v; IV, 39v–50v; V, 50v–65r; VI, 65r–79r; VII, 79r–93r; VIII, 93r–101r; IX, 101r–112r; X, 112r–119r; XI, 119r–127v; XII, 128r–138r; XIII, 138r–148v. Substantial glosses by the scribe in the star catalogue (88r–96r), including precessional increment for 1354, cf. 'Ad habendum loca stellarum fixarum ad annum 1354, adde 18 gradus, 22 minuta et 30 secunda' (88r) and 'Nota quod anno Christi 1354, Aldebaran fuit in Geminis 52 minuta, 30 secunda, 56 tertia' (92r). No other glosses.
- 152r–198v 'Omnium recte philosophancium non solum visibilibus et credibilibus argumentis — tenebrarum sic se habent. Explicit liber sextus minoris *Almagesti*.'
 = ***Almagesti minor* (C.1.4)**. A few short marginal notes by the scribe or a similar hand.

Memmingen, Stadtarchiv, 2° 2,34

s. XV² (after 1463 for the Ptolemaic section). **Or.:** Germany, perhaps Speyer (Georges).

Paper, II + 163 f., only sporadically numbered, two hands (several hands acc. Hudry-Bichelonne): I, f. Ir–Iv, 1r–94v and 125r–163v; II, f. 97r–124r.

Astronomy, medicine and astrology: astronomical notes (Ir–Iv); planetary tables (1r–94v); *Antidotarium Nicolai* (97ra–113rb); ‘Tractatus Gentilis de invenienda dosi medicinarum. Ad inveniendum dosim uniuscuiusque medicine...’ (114ra–116rb); on plants ‘Simplicia usalia et domestica’ (116v–121v); medicine ‘Ad evidentiam istius sunt duo...’ (122ra–124rb); **Ptolemaica (125ra–163vb)**. Blank: 95r–96v, 113v, 124v.

Bibl. F. Hudry-Bichelonne, ‘Notes sur divers manuscrits latins conservés en Allemagne du Sud’, *Bulletin d’Information de l’Institut de Recherche et d’Histoire des Textes* 13 (1964–1965), 9–28: 20; Kristeller 1963–1992, III, 610; Georges (forthcoming).

125ra–163vb ‘<I>nter utiliores vias quas in editionibus viderimus sapientum de astrorum doctrinantium influxibus processus quem gloriosus astronomorum ille signifer Ptholomeus Saludranus in libro quartuo (!) partium ordinavit... Due sunt scientie ad pronosticationes complementum requesite secundum quod duobus modis — (162rb) ad varietatem colorum prout sepe dictum est. Et hec sunt in summa sententie domini Ptholomei de rebus et accidentibus universalibus ex secundo eius libro collecte. Verum quia dominus Hali in fine capituli addit certa verba utilia domini Hermetis in libro suo de accidentibus, scripta et michi visum fuerit (?) utile eadem hic subscribere. Dixit Hermes: Ordina significatores primo etc. Primo fortiolem postmodum debiliolem — Hic enim adiunximus multa de dictis Hermetis de quibus proficies si Deus voluerit. Explicit secundus Quadripartiti Pthololomei.’
= **Commentum Cracoviense in Quadripartitum a. 1463** (C.2.8).
Preface, 125ra; Book I, 125ra–141rb; II, 141rb–162rb; appendix, 162rb–163vb.
A few short marginal notes by the scribe.

† Metz, Bibliothèque Municipale, 286

s. XIV (1343 for the Ptolemaic section, cf. colophon). **Or.:** Paris (for the Ptolemaic section, cf. colophon). **Prov.:** ‘Herman de Bure’; Metz, cathedral. The MS was bombed in 1944.

Parchment and paper, several sloppy hands (‘plusieurs écritures très négligées’).

Astrology and astronomy: **Ptolemaica (#1)**, followed by astronomical sections, so described in the *Catalogue general*: ‘2° Tabula motus astrorum, cum tractaculo. — Incipit: “Postquam... de motibus celestibus aliquam certitudinem.” — 3° De theorica Lune et vi planetarum. — Incipit: “Centro vero epicicli exeunte.” — 4° Tabulae et canones tabularum magistri Hermanni de Saxonia. — Incipit: “Anno Christi 1361 completo, ad meridiem 10 diei.”’

Bibl. *Catalogue général des manuscrits des bibliothèques publiques de France des départements*, in-4°, V, Paris, 1879, 122–23; Lemay 1999, I, 252.

- #1 'Ptolomei astrorum peritissimi Centilogii liber. Dixit Ptholomeus: Iam scripsi tibi — Scriptus Parisius anno Christi 1343, 16 kal. Augusti, hora vespertina. Amen.'
 = **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**.

Milan, Biblioteca Ambrosiana, A. 71 inf.

s. XVI² (1566–1568 for f. 1r–2v; 1581 for f. 24r–27v; 1587 for f. 95r–96r). **Or.:** collection of texts, letters and notes assembled by Gian Vincenzo Pinelli (1535–1601). **Prov.:** Pinelli's library was purchased by the Biblioteca Ambrosiana in 1608–1609.

Paper, III + 129 f., several hands.

Scientific texts, letters and notes in Latin, Italian and Greek, dealing with astronomy, optics, geometry, architecture, astrology and mechanics: table of contents, 16th or 17th c. (IIr); two letters from Giuseppe Moletti to Pinelli on the gnomon and Ptolemy's tables, dated 1566 and 1568 (1r–2v); 'De visione, de visu, deque oculo, radiis et distantia cap. 3. De visione loquuturi quid visio sit...' (3r–7v); text on climates 'Ptolomeus in secundo... *Almagestum* vocant, ac in *Geographia*...' (14r–18v); Ettore Ausonio, on mirrors, in Italian (20r–21v); letter from Giacomo Contanari to Pinelli on geometry, in Italian (23r–23v); letter from Giuseppe Moletti to Giacomo Contanari on measurements, dated 1581, in Italian (24r–27v); Giacomo Contanari, on fortifications, in Italian (30r–36r); Antonio di Pietro Averlino, on architecture (37r–51r); Giacomo Contanari, 'Brevis descriptio artificiosi, novi et astronomici automati horologii' (53r–56r); Alvise Corner, *Trattato d'architettura* (57r–74v); **Ptolemaica (76r–84v)**; 'Divisio Procli casuum tertii problematis primi lib<ri> Elem<entorum> Euclidis. Duae datae inaequales rectae lineae...' (87r–87v, preceded by a diagram summarizing the same material on f. 86r); **Ptolemaica (89r–94r)**; Galileo Galilei, theorems of geometry, dated 1587 (95r–96r); Giovanni Antonio Magini, on theorems from Book III of Euclid's *Elementa* (97r–106r); list of famous mathematicians (107r–110r); selection of theorems from Euclid's *Elementa*, in Greek (111r–112v); notes on the compass, in Italian (113r–115v); chapter index of a treatise of mechanics, in Italian (117r–120v); geometry, in Italian (121r–121v); notes on Euclid's *Elementa* (123r–128v). Blank: I, IIv–IIIv, 8r–13v, 19, 22, 28–29, 36v, 51v–52v, 56v, 66, 75, 85, 86v, 88, 94v, 96v, 106v, 110v, 116, 122, 129.

Bibl. Revelli 1929, 20–22 (no. 6); Rivolta 1933, 206–07 (no. 190); Gabriel 1968, 38–39 (no. 16); *ICMBA*, I, 41–42; Kristeller 1963–1992, I, 317–18, and II, 534.

- 76r–84v 'Κλαυδίου Πτολεμαίου περι ὑποθέσεων τῶν πλανωμένων. Hypotheses, ὁ Syre, coelestium motuum in iis quidem quas de mathematicis scripsimus commentariis, oratione explicare conati sumus — Stella tandem a boreo limite obliqui circelli in consequentia mundi partibus. Finis.'
 = **Ptolemy, *De hypothesisibus planetarum***, tr. **Matthias Bergius (A.3.1)**. A few marginal notes, apparently by another hand, including 'Ex versione Io. Praetorii' (76r).

- 89r–94r ‘Perioche quatuor librorum de iudiciis Cl<audii> Ptolemaei per Valentinum Naibodam [title by another hand, f. 89v blank]. (90r) Quoniam vero summam totius operis praecognovisse multum interest ideo attexam hic argumentum breve seu periodum horum quattuor Ptholomei librorum de effectibus siderum — ab aliquo proditum acceperim. Sequuntur ergo libri primi capita etc.’
= **Valentin Nabod**, *In Claudii Ptolemaei Quadripartitae constructionis apotelesmata commentarius novus et eiusdem conversio nova* (C.2.30), preface only. No glosses.

Milan, Biblioteca Ambrosiana, A. 143 inf.

s. XV². **Or.:** Italy.

Paper, 265 f., a single neat hand.

Ptolemaica (single text). Blank: 260v–265v.

Bibl. Revelli 1929, 23–24 (no. 9); Norlind 1966, 21; Gabriel 1968, 41 (no. 24); *ICMBA*, I, 78; Kristeller 1963–1992, I, 279, and II, 529; Monfasani 1984, 30; Kristeller 1963–1992, VI, 50–51.

- 1r–260r ‘Georgii Trapezuntii ad libros Magne compositionis Ptholomei compositionis (!) introductio. Capitulum primum de divisione omnis circuli et precipue zodiaci. <Q>uoniam libros Ptholomei de motibus celestium, quibus nescio an quicquam altius ac rationis et scientie via certius inveniri aut fingi possit, ex Greca lingua in Latinam vertimus... (14v) Expositio Magne compositionis Ptholomei a Georgio Trapezunda facta incipit. <C>oditis huius quem exposituri gratia salvatoris sumus volumina librique XIII sunt, in quibus Ptholomeus intendit erraticarum stellarum et fixarum motus invenire — (258r) maius inter observationes temporis spatium exigit quam vita hominis sit. Finis. Finit commentum in libros Magne compositionis Ptolomei a preclarissimo philosopho Georgio Trapezuntio factum. Deo gratias. (258v) Laudetur nomen tuum, qui me hoc opus in die felici salutis nostre absolvere voluisti, Christe benedicte, quod in die quoque felici tue incarnationis incepti absolv... que (?) novem id. id. (!) mensibus, traductionem vero textus mensibus novem diebus 22, cuius rei testis gravissimus est, ipse pontifex summus Nicolaus V, qui volumen traducendum mense Martii tradidit et mense Decembrio anni eiusdem et librum traductum et commentarios vidit absolutos propter quos postea me destruxit, ut scedule ostendunt, per ignorantissimum Iacobum Cremonensem apposite’ (followed by diagrams and notes).
= **George of Trebizond**, *Expositio Magne compositionis Ptolomei* (C.1.19). Introduction, 1r–14v; Book I, 14v–39v; II, 39v–68v; III, 68v–84v; IV, 84v–98r; V, 98r–127v; VI, 127v–153v; VII, 154r–156r; VIII, 156r–161r; IX, 161r–183v; X, 183v–197r; XI, 197v–210r; XII, 210v–227v; XIII, 227v–258v; colophon, 258v; diagrams and notes, 258v–260r. A few marginal notes and calculations by the scribe on f. 7r, 10v–11v, 36v, 55r, 148r, 163r, 187r.

Milan, Biblioteca Ambrosiana, A. 183 inf.

s. XIII²-XIVⁱⁿ (f. 1–23, cf. table of conjunctions for 1254–1329 with example for 1294, f. 22r–23r) and XIV (f. 24–122). **Or.:** northern France, perhaps Paris, for f. 1–23; northern Italy for f. 24–79 (Cantele); Italy for f. 115–122 (Cantele).

Parchment, 122 f., of which f. 80–114 are now missing. MS made of three parts: I, f. 1–23 (several hands, one of which, very neat, copied f. 1–19, painted initials f. 1v, 7v, 14r); II, f. 24–79 (one or similar hands, except f. 77vb–79v, clearly copied by another hand); III, f. 115–122 (one or similar hands).

Astronomy, mathematics and astrology: end of a computus text ‘Explicit tractatus de compoto’ (1r); table of contents, 17th c. (1r); Sacrobosco, *De sphaera* (1v–7v); Jordanus de Nemore, *Liber philotegni*, incomplete (7v–13v); **Ptolemaica (14r–20r)**; ‘Hic fuit acceptio de Albategni. Integrorum multiplicatio est contra numerus...’ (20v); end (?) of a text on the astrolabe (21r); ‘Cum fuerit Luna cum Capite vel Cauda in uno signo...’ (21r); tables of conjunctions Sun-Moon 1254–1329 (22r–23r); Alcabitus, *Introductorius*, III.30-IV (24ra–28vb); Zael, *Liber iudiciorum* (29ra–56va); Messahallah, *Liber receptionis* (56vb–64va); Messahallah, *De revolutionibus annorum mundi* (64va–69va); Messahallah, *Epistola de rebus eclipsium* (69va–71ra); *Astronomia Ypocratis* (71rb–73va); Thebit Bencora, *De imaginibus* (73vb–76ra); **Ptolemaica (76ra–77vb)**; Pseudo-Thebit Bencora, *De motu octave spere* (77vb–78vb); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (79va–79vb); Algorismi [al-Khwārizmī], *Algebra* (115ra–120ra); Sacrobosco, *Algorismus* (120va–122vb). Blank: 21v, 23v, 79r. According to the table of contents f. 1r, the now missing folia (f. 80–114) contained ‘Roberti Sticford [?Stickford, Lincolnshire] monachi tractatus de umbris’ (80-) and ‘De signis aquarum et ventorum’ (108-).

Bibl. Revelli 1929, 24–25 (no. 11); Thorndike 1948, 48–49; R. Cipriani, *Codici miniati dell’Ambrosiana. Contributo a un catalogo*, Vicenza, 1968, 153; Gabriel 1968, 44–46 (no. 33); *ICMBA*, I, 97–99; Agrimi 1976, 151–53 (no. CLXXX); Clagett 1964–1984, V, 194; B. B. Hughes, ‘Gerard of Cremona’s Translation of al-Khwārizmī’s *al-Jabr*: A Critical Edition’, *Mediaeval Studies* 48 (1986), 211–63; 223–24; Kristeller 1963–1992, VI, 32; *CMFB*, VI, 117–21; D. Cantele, ‘I codici illustrati di Giovanni Sacrobosco’, in *Nuove ricerche su codici in scrittura latina dell’Ambrosiana. Atti del Convegno Milano, 6–7 ottobre 2005*, eds M. Ferrari, M. Navoni, Milano, 2007, 317–30; 317–23.

14r–20r ‘Quemadmodum Ptholomeus et ante eum non nulli veteris auctoritatis viri antiquas seculi scribunt hystorias... (14v) Cum possibile sit, Iesuri, et plerumque necessarium ut in plano represententur sp... (?) circuli in speram corpoream incidentes — (19v) et cum circulis meridianis signa distinguuntibus. Explicit liber translatus Tolose anno domini 1144 kal. Iunii’ (followed by diagrams f. 19v–20r).

= **Ptolemy, *Planispherium*, tr. Hermann of Carinthia (A.6.1)**, Class I. Translator’s preface, 14r–14v; text, 14v–20r. No glosses.

76ra–77vb ‘Incipit astrologia Thesbit Bencora super Almagesti. Tesbit Bencorat radiosa mentis speculatione astrologie penita scure (?) sublimitate nuturcia (?) serena

rimatione enucleans per capitulorum vana discrimina (?) sui operis Gades pretaxat. Quid sit circulus equinoctialis, quid zodiacus... (76rb) Liber Tebit Bencorat de hiis que necessaria sunt ante lectionem Almagesti. Circulus equinoctialis est circulus magnus signatus extra (?) polos orbis super quos movetur orbis de oriente in occidentem. Zodiacus est circulus magnus — in oppositione Solis aut propinqui opposito erunt retrogradi. Explicet astrologia Thesbit Bencore super Almagesti.'

= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**, alternative version (as in MS[→]Dijon, BM, 449, see C.1.1. under Note). Marginal notes by the scribe f. 76v.

Milan, Biblioteca Ambrosiana, C. 299 inf.

s. XV. **Prov.:** Francesco Ciceri (d. 1596), who bequeathed his MSS to the Biblioteca Ambrosiana.

Paper, I + 189 f., a single hand, painted initials f. 1r and 1v.

Astrology and astronomy: Haly Abenragel, *De iudiciis astrorum* (1ra–181va); **Ptolemaica** (181va–182ra and 182ra–183ra); Franco de Polonia, *Tractatus de turketo* (183va–184va); astronomical observations of 1226, 1290, 1292 and 1285 from William of Saint-Cloud's *Almanach planetarum* 'Nota quod magister Guillelmus de Sancto Golodoando dicit quod invenit in margine cuiusdam libri scriptum sic: Anno domini 1226...' (185ra); ascension tables for the seven climates (186r–189v). Blank: 1r, 185v.

Bibl. Gabriel 1968, 71–72 (no. 107); *ICMBA*, I, 365–66; Agrimi 1976, 163–64 (no. CXCI).

181va–182ra 'De stellis comatis sive caudatis. Ptho<lome>us dixit quod stelle comate sunt novem — in regibus et divitibus apparebit.'

= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses. The text is followed by four very short paragraphs: 'Cenaculum est quasi ex colore (?) mortis et habet iuxta se radium... Albumasar: Stella comate significat detrimentum... Coniunctio Saturni (?) vel Martis cum Capite vel Cauda Draconis... Coniunctio Saturni cum Capite...'

182ra–183ra 'Verba Centiloquii inferia ideo scribuntur quia sunt a sibi quilibet (?) in textu (?) cum expositione diversa. Verbum 15. Ascendentia nativitatum inimicorum regni alicuius sint signa cadentia ab angulis ipsius regni — secundum quod veraciter iudicabimus.'

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium***, 'Mundanorum' version (C.3.1.3), v. 15–16, 18, 24, 31, 35–36, 58, 62–64, 87–88, 93, all in the version 'Mundanorum 2' with the commentary. No glosses.

Milan, Biblioteca Ambrosiana, D. 114 inf. [Plate 23]

s. XVIⁱⁿ (f. 76r–85r are dated 4 October 1518 in the note in Hebrew at the end of the text, which reads 'In your honour, God, 19 of Tishrei 279, up to now' — my thanks to Shlomo Sela

for working out these Hebrew words and translating them for me). **Or.:** northern Italy (Italian script, both for the Latin and Hebrew texts; Mantua is mentioned in one of the Hebrew texts, f. 22v[93r], see Bernheimer, 128). The Latin texts are in the hand of Isaac Hebreus, as shown by a comparison with the autograph copies of his translations of Savasorda's *Liber de forma terrae et de figuracione corporum coelestium necnon de ordine motus stellarum* (MS Vatican, BAV, Ott. lat. 2079) and of Levi ben Gerson's *Liber sillogismi recti* (MS Vatican, BAV, Ott. lat. 1906).

Paper, 114 f., foliated twice in pencil, from the front and the back of the volume (the latter foliation, intended for Hebrew readers, is indicated between square brackets []). The Latin texts are copied in a single hand (three hands acc. Bernheimer). Several folia appear to be missing, after f. 69v and after f. 75v.

Astronomy, geography and physics, partly in Hebrew and partly in Latin: Hebrew texts nos 3–5 (1r[114v]–39v[76r]); Jordanus de Nemore, *Elementa super demonstrationem ponderum* (40r[75v]–48r[67v]); ‘Sic Leonardus Cremonensis [Leonardo (de Antoniis) of Cremona] prosequitur descriptionem cosmographiae in plano. Terreni situs habitabilis partes describentium Ptholomeus quis fuerit...’ (49r[66v]–57v[58r]), with diagrams (57v[58r]–58r[57v]); **Ptolemaica (59r[56v]–69v[46r])**; ‘De his que geographiae adesse debent Georgii Amerucii [George Amiroutzes] opusculum. Quoniam necessarium quidem est scienter de terrae situ...’, end gone (70r[45v]–75v[40r]); **Ptolemaica (76r[39v]–85r[30v])**; Hebrew texts nos 1–2 (86r[29v]–114v[1r]). Blank: 39r[76v], 48v[67r], 58v[57r], 59v[56r], 85v[30r]. The Hebrew texts consist of (1) a comm. on Menelaus's *Spherica* ([1r]–[23v]); (2) a treatise on days and nights (*Hilluf ha-yamin ve-ha-leilot*) by Profiat Duran ([24r]–[29r]); (3) five propositions of geometry ([76r]); (4) Theodosius, *Spherica* ([77r]–[93r]), with notes thereupon ([93r]–[93v]); (5) Menelaus, *Spherica* ([94r]–[114v]).

Bibl. C. Bernheimer, *Codices Hebraici Bybliothecae Ambrosianae*, Firenze, 1933, 124–28 (no. 97); *ICMBA*, I, 441–42.

59r–69v

‘Verba Geber filii Affla Hispalensis. Scientia species habet quarum melior post scientiam — ad amorem et studium eius quod detulit nos ad assiduandam... (60r) Et quia plurimum quod queritur in tractatu primo et secundo huius libri non est nisi extraction ignotorum arcuum — (65r) in libro suo sine demonstratione, quia est liber iste noster stans per se, non egens alio sicut premisimus. Et ad ultimum accideret si locus terrae non esset sub equatore diei esset inclinata ad unum duorum polorum ad septentrionem aut ad meridiem — sciemus ex eis per illud cuius declarabo precessit quantitatem arcuum angulorum qui eveniunt illis signis post orbem meridiei et sciemus...’

= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 59r (beginning only, the text breaks off mid-sentence in the middle of a line, and the rest of f. 59r and f. 59v are blank); I.11–18, 60r–65r; II, 65r–69v (later part only, with abrupt end in the last chapter of Book II due to one or several missing folia, catchword ‘iterum’). No glosses.

- 76r–85r ‘Demonstrationes astrolabii a Ptholomeo editae, correctae et rectificatae per magistrum Hisaac Hebreum. Scripsit Ptholomeus ad Sirum: Postquam possibile est ut circuli secantes sphaeram appareant in superficie plana — (84v) non oportet dividere circulos per singulos gradus, sed sufficit divider eos per 30 gradus. Sequens capitulum non est Ptolomei sed est Abo Alcasis Mesulam filii Alchamad. Dixit Ptolomeus: Docuit in hoc tractatu quomodo debeamus describere orizontem et parallelos eius qui dicuntur almucantarar — arcus eque dividunt horizontem et omnes eius parallelos. Finis. — כבודך ה' י"ט תשרי .'.רע"ט לע"ב
= **Ptolemy, *Demonstrationes astrolabii*, tr. Isaac Hebreus (A.6.2).**
Marginal corrections by the scribe (Isaac Hebreus).

Milan, Biblioteca Ambrosiana, D. 142 inf.

s. XVI² (three sets of lectures are dated to 1558 for f. 83–120, cf. f. 85v; 1571 for f. 171–212, cf. f. 171r; and 1562 for f. 384–397, cf. f. 385r). **Or.:** University of Pavia.

Paper, 493 f., several hands, one of which copied f. 355–383.

Collection of university lectures on Aristotle's works (*Physica*, *De generatione et corruptione*, *Historia animalium*, *Ethica ad Nicomachum*, *De caelo* etc.), several of which given by Cesare Rovida (1556–1591), professor of medicine at the University of Pavia. F. 355–383, copied in a single hand, contain astrological material, including ***Ptolemaica* (355r–363v)**, followed by a blank folio (364) and two sections in Italian: ‘Perche il calcol e computo delle positure celesti cosi nelle natività de gli huomini...’ (365r–378r; f. 378v–380v are blank) and ‘ὁμοίως δὲ ἐπειδὴ ποιοῦντων τῶν χρόνων τὰ ἐκφανέστατα διαστήματα’ [*Tetrabiblos*, I.7]. Similiter cum evidentia temporum discrimina dies et nox efficiat. Volendo investigare Tolomeo la virtu e faculta delle stelle...’ (381r–383v).

Bibl. Kristeller 1963–1992, I, 283.

- 355r–363v ‘Interpretaturi quadripartitam constitutionem Claudii (!) Ptolomei, in qua tradit precepta iudiciorum exercendorum (?) antequam verborum interpretationem aggrediamur, prius nosce oportet novem problemata. Primum, qui nam sit hic Claudus (!) Ptolomeus qui hos libros conscripsit... (358r) Secunda lectio [title in margin]. Ex novem problematibus propositis, duo determinavimus... (360r) Tertia lectio. Di commissione del duca incomincio (?) leggere volgare [in margin]. Poi che noi havemo determinato — al nostro vertice produce maggior calore.’
= (***Lctiones Pavienses in Quadripartitum* (C.2.28)**). No glosses.

Milan, Biblioteca Ambrosiana, G. 70 sup.

s. XIV (for f. 65–121; f. 1–16 were copied in 1358, cf. f. 4ra; f. 17–64 are older, probably from the 13th c.). **Prov.:** Gian Vincenzo Pinelli (1535–1601), whose library was purchased by the Biblioteca Ambrosiana in 1608–1609.

Parchment, 121 f., composite MS made of three parts: f. 1–16, 17–64 and 65–121.

Miscellanea: questions on Aristotle's *De longitudine et breuitate vite* 'Circha librum de longitudine et breuitate vite sit primus questio utrum eidem conhabitare sint cause longe vite...' (1ra–4ra) and *De morte et vita* 'Circha librum de morte et vita primo queritur utrum calidum sit...' (4ra–13rb); comm. on Pseudo-Aristotle's *Physiognomia* 'Quoniam autem anime sequuntur corpora...' (13rb–16ra); Macrobius, *Commentarii in somnium Scipionis* (17ra–62rb); **Ptolemaica (65ra–121ra)**. Blank: 16v, 62v–64v, 121v.

Bibl. Revelli 1929, 84 (no. 198); Rivolta 1933, 20–21 (no. 37); L. Thorndike, 'Notes upon Some Medieval Astronomical, Astrological and Mathematical Manuscripts at Florence, Milan, Bologna and Venice', *Isis* 50 (1959), 33–50: 40–42; Gabriel 1968, 235 (no. 554); Agrimi 1976, 91 (no. CXI); *ICMBA*, III, 565; P. Pizzamiglio, *Gerardo da Cremona nella tradizione amanuense e tipografica*, Cremona, 1988, 27–28.

65ra–121ra 'S<cientia> species habet quarum melior post scientiam — sunt digniores ut evanescent et destruantur. Completa est declaratio eius. Explicit tractatus nonus et ultimus huius libri. Hunc librum transtulit in Toletum magister Girardus Cremonensis de Arabico in Latinum.'
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 65ra–66ra; I, 66ra–72vb; II, 72vb–80va; III, 80va–83va; IV, 83va–90rb; V, 90rb–100rb; VI, 100rb–108va; VII, 108va–115rb; VIII, 115rb–117vb; IX, 117vb–121ra. A few short marginal notes by the scribe.

Milan, Biblioteca Ambrosiana, H. 44 inf.

s. XIV¹. **Prov.:** Petrarch (Kristeller); 'Bibliothecae Ambr<osianae> traditus VII id. Martius MDCCCXXX ex legato Bernardini Ferrarii Mediol<anensis> machinatoris' (f. Ir).

Parchment, III + 148 f., MS made of four contemporary parts: I, f. 1–16; II, f. 17–88; III, f. 89–116; IV, f. 117–148. The fourth part, which is missing a least one quire at the beginning, is copied by two hands (f. 117–143ra and 143rb–146 or, possibly, a third hand for f. 145–146).

Astronomy, astrology, geometry and logic (f. 117–148): John of Ligneris, *Algorismus de minutiis*, end only due to missing folia (117ra); Sacrobosco, *De sphaera* (117ra–124rb); **Ptolemaica (124rb–143ra)**; *Theorica planetarum Gerardi*, incomplete (143rb–143vb); Campanus of Novara, *De quadratura circuli* (145ra–146rb). Blank: 144, 146v. The other parts of the MS contain non-mathematical texts, including comm. on Peter Lombard's *Libri sententiarum* 'Circa primam lectionem tertii Sententiarum...' (1ra–16rb); Albertus Magnus, comm. on Aristotle's *De animalibus*, reported by Conradus de Austria in 1258 (17ra–87vb); 'Quis invidet vel Deus invidens est...' (87vb–88rb); Herveus Natalis, *De materia celi* (89ra–115ra).

Bibl. Revelli 1929, 65 (no. 116); Clagett 1964–1984, I, xxv; Gabriel 1968, 151–52 (no. 343); *ICMBA*, II, 257–59; Agrimi 1976, 176 (no. CCXV); Kristeller 1963–1992, I, 292, II, 530, and VI, 35; Lemay 1999, I, 313–15.

- 124rb–143ra ‘<D>ixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Primum [in margin]. <S>ciencia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Item, prima. (124va) Quod dixit Ptholomeus, ex te et illis est, significat quod qui res futuras scire desiderat... (124vb) De alia translatione. Dixit Ptholomeus: Mundanorum mutacio ad hoc et ad illud corporum supracelestium mutatione... Doctrina stellarum ex te et illis est. Nec est doctrina in ea ut propter hanc — (142vb) et ego Deum precor ut te diligat. Et perfecta est huius libri translatio 17 die mensis Martii et 2 die mensis Gumedii secundi anno Arabum 532^o. Stelle cum caudis sunt 9 — in regibus et divitibus erit. Explicit Centilogium Ptholomei.’
= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 142vb–143ra (see below). No glosses.
- 142vb–143ra ‘Stelle cum caudis sunt 9 — in regibus et divitibus erit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.

Milan, Biblioteca Ambrosiana, H. 75 sup.

s. XIII^{ex}–XIVⁱⁿ (after 1284: the MS is generally dated to 1284, but the colophon f. 73ra refers to the date of composition — not of copy — of Franco de Polonia’s *Tractatus de turketo*: ‘Factum anno domini 1284, secunda die Iulii, in die dominica, Sole existente in 17^o gradu Cancrī, Luna 20^o gradu Aquarii, Saturno 20 Capricorni, Iove 21 Sagittarii, Marte 13 Virginis, Venere 18 Leonis, Mercurio 28 Gemini, Capite 12 Capricorni, ante meridiem inceptum. Explicit.’). **Prov.:** Gian Vincenzo Pinelli (1535–1601), whose library was purchased by the Biblioteca Ambrosiana in 1608–1609.

Parchment, I + 73 f., a single neat hand, decorated initials.

Astronomy: two tables of contents, one late medieval or early modern and the other by Antonio Olgiati in 1609 (Ir); Sacrobosco, *Algorismus* (1ra–6ra); Sacrobosco, *De sphaera* (6ra–15vb); Sacrobosco, *Computus* (16ra–34ra); Pseudo-Messahallah, *De compositione astrolabii* (34ra–51vb); Robertus Anglicus, *Quadrans vetus*, attr. ‘magister Iohannes de Monte Pesulano’ (52ra–56vb), with solar tables (56v–58v); *Theorica planetarum Gerardi* (59ra–64va); Franco de Polonia, *Tractatus de turketo* (65ra–66vb); ***Ptolemaica* (67ra–68rb)**; ‘De compositione instrumenti per quod habetur verus motus planetarum. Fiat columpna et locetur in congrua basi...’ (68rb–69ra); ‘De utilitatibus chilindri. Accepturus horas cum chilindro...’ (69ra); Franco de Polonia, *Tractatus de turketo* (70ra–73ra). Blank: Iv, 69v, 73v.

Bibl. Revelli 1929, 88 (no. 210); Rivolta 1933, 24–25 (no. 47); R. Cipriani, *Codici miniati dell’Ambrosiana. Contributo a un catalogo*, Vicenza, 1968, 63; Gabriel 1968, 245 (no. 575); Agrimi 1976, 92–94 (no. CXIV); *ICMBA*, III, 631–32; D. Cantele, ‘I codici illustrati di

Giovanno Sacrobosco', in *Nuove ricerche su codici in scrittura latina dell'Ambrosiana. Atti del Convegno Milano, 6–7 ottobre 2005*, eds M. Ferrari, M. Navoni, Milano, 2007, 317–30: 324–27; Zepeda 2018, 71; Lohr 2025, 102*.

67ra–68rb 'Incipit tractatus de compositione armillarum. Queruntur primum due armille convenientis mesure — (67va) vicinior vero est consideratio. Incipit compositio instrumenti per quod habetur tropicorum et remotio sumitatis capitum ab equinoctiali. Sume laterem ligneum vel lapidem — (67vb) si Solis umbram in omni meridie circa maxime solsticium observaveris. Compositio instrumenti per quod reperitur diversitas aspectus Lune in latitudine. Sumantur tres regule recte et planissime — arcus inquam deprehensus inter locum latitudinis Lune et visum locum Lune.'
= *Almagesti minor* (C.1.4), excerpts on instruments from V.1, I.15 and V.11. No glosses.

Milan, Biblioteca Ambrosiana, M. 28 sup.

s. XIV¹ (not before 1327, date of John of Saxony's *Canones*, for f. 1–22; 'A nativitate Christi usque nunc 1321' f. 86r; computation of the date of Easter for 1323 f. 117v). **Or.:** several sections are in Italian. **Prov.:** the MS belonged to one 'B<ar>tolameus de Sorevelis (Sorenelis?)' in 1522, cf. f. 142r.

Parchment, 177 f., one main hand, rich decoration on f. 9v and 12v, decorated initials.

Astronomy, astrology, arithmetic, geometry and music: table of contents, added (1v); John of Saxony, *Canones* (2r–16r); description of the stars of the 12 signs and constellations 'In forma Arietis sunt stelle 13...' (17ra–21r, with drawings of the 12 signs f. 17ra–18rb); Sacrobosco, *De sphaera* (23r–31v); comm. on Sacrobosco's *De sphaera* 'Tractatum de spera. Iste quidem tractatus qui est de dispositione mundi...' (31v–53v); Alcabitius, *Introductorius* (53v–71v); 'Cum fuerit Luna cum Capite vel Cauda in uno signo est dies cavenda in omnibus operibus...' (71v–72r); *Alchandreana* 'Si vis scire cuiusmodi faciem habet ille qui furatus est...' (72r–72v); Zael, *Liber temporum*, excerpts (73r–74r); *Astronomia Ypocratis* (75r–77r); 'In principio egritudinis, hora qua eger ponit se in lecto, in aliquo angulorum fuerit Luna tunc significat supra varietate malicie vel bonitatis egritudinis...' (77v–78v); **Ptolemaica** (79r); *Theorica planetarum Gerardi* (79v–84v); chapters on astronomy, computus and astrology 'Cum planetarum cupium describere cursum et foris ad centrum terre...' (84v–91v); *Picatrix*, excerpt 'De mansionibus secundum Picradim. Prima mansio Lune dicitur Alnach. Incipit in primo gradu Arietis et finitur in gradibus 12...' (92r–92v); Pseudo-Messahallah, *De compositione astrolabii*, second part on uses (92v–97r); shadow table (97v–98r); 'Si vis dividere unum numerum per alium, maiorem dividendum numerum...' (98v–104r); arithmetic in Italian (104r–106v); 'Si vis scire excessum celi ad quadratum ipsum infra illum circulum...' (106v–107v); geometry in Italian (107v–112r); 'Sciendum de mensurationibus rerum secundum quadrantem. Si vis scire altitudinem rei...' (112r–114r); 'Nota quod tresdecim sunt species cantus, videlicet tonus, semitonus...' (114r–117r); 'Si volueris scire computum Pasce...' (117v–118v); 'Incipit abbrevatio compoti a magistro compilata. Nota materia compoti versatur precipue...' (119r–123r);

Sacrobosco, *Algorismus* (123r–127r); Euclid, *Elementa*, ed. Campanus of Novara, Books I–V (127v–141r and 143r–177v). Blank: 1r, 16v, 21v–22v (except for an unfinished diagram of the 12 months f. 22v), 74v, 141v–142v (except for owner's note f. 142r).

Bibl. Revelli 1929, 95 (no. 232); Thorndike 1948, 51; Gabriel 1968, 261–63 (no. 610); Agrimi 1976, 104–06 (no. CXXIV); *ICMBA*, IV, 92–93; Pingree 1986, LI; Kristeller 1963–1992, VI, 42; Juste 2007, 338–39.

79r 'Ptolomeus in suo Centumloquio (!) docet nos causas dierum determinabilium — et ideo non est nobis necesse recitare. Finis [this word added by a later hand].'
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*)**, tr. **Plato of Tivoli (C.3.1.1)**, v. 60, comm. only. No glosses.

Milan, Biblioteca Ambrosiana, Q. 69 sup.

s. XIV¹. **Or.:** northern France (Paris?).

Parchment, I + 70 + I^af., a single or similar hands (except for additions by two somewhat later hands on f. 69v and 70r), painted initial f. 5v and 41r, decorated initials.

Astronomy: table of contents, early modern (Ir); Campanus of Novara, *De proportionibus et proportionalitate* (1r–3v); Campanus of Novara, *De figura sectoris* (4r–5v); Menelaus, *Spherica* (5v–35r); Pseudo-Thebit Bencora, *De motu octave spere* (35v–38v); **Ptolemaica (39r–40v)**; Theodosius, *Spherica*, tr. Gerard of Cremona (41r–68v); Theodosius, *Spherica*, anonymous tr., first 21 lines only (69r); 'Si fuerint due linee, una sex cubitorum...', added (69v); 'De musica dicit miranda Cassiodorus libro secundo formularum suarum...', added (70r); table of contents, 14th (?) c. (70v); table of contents, early modern (I^ar). Blank: Iv, I^av.

Bibl. R. Cipriani, *Codici miniati dell'Ambrosiana. Contributo a un catalogo*, Vicenza, 1968, 109; Gabriel 1968, 324 (no. 815); *ICMBA*, IV, 575–76; Kristeller 1963–1992, VI, 45.

39r–40v 'Liber quem edidit Tebit filius Chore de his que indigent expositione antequam legatur Almagesti [title in lower margin, hand of the scribe]. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Tebit filii Chore de hiis que indigent expositione antequam legatur Almagesti.'
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. A couple of marginal corrections by the scribe.

Milan, Biblioteca Ambrosiana, R. 109 sup.

s. XVI. **Or.:** collection of documents assembled by Gian Vincenzo Pinelli (1535–1601). **Prov.:** Pinelli's library was purchased by the Biblioteca Ambrosiana in 1608–1609.

Paper, 336 f., numerous hands.

Collection of texts, letters, excerpts and notes of all kinds (mostly non-scientific) in Latin, Italian and Spanish. The **Ptolemaica (288r–292v)** form one gathering copied in a single hand.

Bibl. Revelli 1929, 128–29 (no. 345); Rivolta 1933, 102–07 (no. 140); Gabriel 1968, 342–43 (no. 854); Kristeller 1963–1992, I, 311, and II, 533; *ICMBA*, IV, 701–05; Kristeller 1963–1992, VI, 46.

288r–292v ‘Claudii Ptolemaei (!) liber de Analemate. Consideranti mihi, o Syre, angulorum acceptorum in locum gnomonicum quid rationale et quid non, habitum quidem virorum illorum in lineis accidit admirari et in hiis et valde acceptare — horarii autem ad eum qui secundum verticem, descensivi autem ad horizontem. Habent autem et canones ita’ (followed by the table ‘Cancri principii horarum 13’).
= **Ptolemy, *Liber de Analemmate*, tr. William of Moerbeke (A.5.1).**
A few short marginal notes by the scribe.

Milan, Biblioteca Ambrosiana, S. 77 sup.

s. XVI. **Or.:** collection of documents assembled by Gian Vincenzo Pinelli (1535–1601). **Prov.:** Pinelli’s library was purchased by the Biblioteca Ambrosiana in 1608–1609.

Paper, 406 f., numerous hands. F. 386–406 form one gathering copied in a single hand.

Collection of texts, letters, excerpts and notes of various kinds (scientific and non-scientific) in Latin and Italian, of which f. 386–406 include Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (387r–389v); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (389v–393r); Pseudo-Thebit Bencora, *De motu octave spere* (393r–399r); **Ptolemaica (399r–405v)**. Blank: 386 (except list of the four works contained on f. 387–405, 386r), 406.

Bibl. Revelli 1929, 135 (no. 356); Rivolta 1933, 139–41 (no. 157); Gabriel 1968, 352–53 (no. 877); Kristeller 1963–1992, I, 312, and II, 533; *ICMBA*, V, 41–43; Kristeller 1963–1992, VI, 47.

399r–405v ‘Et incipit tractatus eiusdem de iis quae indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur supra duos polos mundi — propinqui oppositioni Solis erunt tunc retrogradi. Explicit Thebith Benchorath ad laudem Dei omnipotentis.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

† Milan, Biblioteca Trivulziana, 151

s. XV². **Prov.:** the MS was destroyed in WWII.

Paper. Porro writes: ‘Il Codice è in carattere corsivo, assai chiaro, ed il testo è molto corretto.’

Ptolemaica (single text).

Bibl. G. Porro, *Catalogo dei codici manoscritti della Trivulziana*, II, Torino, 1884, 355; Kristeller 1963–1992, I, 360.

? '... (?)'.
= **Giovanni Pontano**, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16).

Modena, Biblioteca Estense Universitaria, Campori 1635 (Gamma E.4.13)

s. XVI¹ (1547–1548). **Or.:** copied by Petrus Bertachius or Bertacha, priest of Camporeggiano, at the University of Pisa.

Paper, 258 f., a single hand.

Ptolemaica (single text). Blank: 136v.

Bibl. R. Vandini, *Appendice prima al catalogo dei codici e manoscritti posseduti dal Marchese Giuseppe Campori*, Modena, 1886, 500; Kristeller 1963–1992, I, 390.

1r–258v 'Lectura super Ptolomei Quadripartito reverendi ac exemii magistri Iuliani Ristorii Pratensi per me presbiterum Petrum Bertachium Camporeggianensem, dum ipse publice legeret in almo Pisarum gimnasio currenti calamo collecta anno 1547. Lectio prima. Cum in omni scientia plura preponuntur atque, ut Aver<roes> testis est...137r) Lectura super Ptolomei Quadripartitum reverendi ac eximii magistri Iuliani Ristorii Pratensis per Petrum Bertacham Camporegianensem currenti calamo collecta — pro temporis paucitate nobis autem refero quamplures et valete. Finis totius operis Quadripartiti, 19 Iunii 1548.'
= **Giuliano Ristori**, (*Lectiones in Quadripartitum*) (C.2.23). I, 1r–80r; II, 80r–136r; III, 137r–224v; IV, 224v–258v. Marginal notes by the scribe.

Modena, Biblioteca Estense Universitaria, lat. 697 (Alfa W.8.20)

s. XV¹. **Or.:** northern Italy.

Paper, 36 f. (medieval pagination I–LXXI, I follow the modern foliation on the bottom left corner), three neat hands (f. 1–29r, 29v–30v and 31r–34r). Deluxe MS splendidly illustrated.

Astrology, divination and medicine: *Revelatio Esdrae* 'Isti sunt versus de annoalibus. Die dominica. Si fuerint kalendae Ianuarii in die dominico, hiems bona est...' (1r–1v); *Revelatio Esdrae* in verses 'Incipiunt versus Sibille de annoalibus. Ut lector noscat quod tempus duxerit annus...' (1v–2v); 'Hec sunt quatuor partes anni...' (2v); **Ptolemaica** (3r–8v); sphere of Apuleius/Pythagoras (9r); onomancy 'Per alfabetum Arabicum computa nomen viri et mulieris et matris eius et divide per 30...' (9v); *Liber Alchandrei*, 21.3–6 'Accipiat nomen suum et maternum et fatale, non illatum aliunde...' (9v); *Alchandreana* 'De capite Arietis. Qui nascitur in Alnat superiori hominis periose inferentem, bonam inveniet...' (9v–15r); 'Qui

nascitur in die dominica securus et speciosus erit... (15v); *zodiologium* 'Cum autem Luna fuerit in Ariete bonum est incipere opus...' (16r–17r); 'Saturnus dat hominem esse fuscum, raros in barba, faciens pilos turpes...' (17r–18v); 'Incipit liber Genesalis. Ianuarius. Mense Ianuarii, signum Aquarii, pro eo Iohannes Baptista in flumine Iordani...' (18v–24r); 'Dies infelices. Isti sunt dies infelices et periculosi quos auctores Grecorum invenerunt...' (24r–24v); onomancy 'Accipe nomen viri et mulieris et congrega litteras et computa et adde VII...' (24v); *lunarium* 'Incipit somniale Danielis prophete. Luna prima quicquid somniaverit in bonum revertetur...' (24v–25r); *Somniale Danielis* (25r–27r); *Regimen sanitatis*, attr. Pietro d'Abano (27r–27v); 'Medicina pestis optima. Cum cito sentitur morbus subito fiat flobothomia...' (28r); table: 168 planetary hours (28v–29r); *lunarium* 'Luna prima factus est Adam, dies bonus in omnibus...' (29v–30v); calendar (31r–34r). Blank: 34v–36v.

Bibl. P. McGurk, *Astrological Manuscripts in Italian Libraries (Other than Rome)*, London, 1966, 48–51; D. Fava, M. Salmi, *I manoscritti miniati della Biblioteca Estense di Modena*, II, Milano 1973, 42–44 ('Lat. 696'); D. Bini, P. Di Pietro Lombardi, L. Ventura, *Liber physiognomiae. Lat. 697 = α.W.8.20 della Biblioteca Estense Universitaria di Modena*, Modena, 2000 (facsimile, transcription and Italian translation of the whole MS).

3r–8v 'Aries. Mars [with representation of Aries in a medallion]. Natus sub Ariete a medio Martii usque ad medium Aprilis erit magne industrie, pertinax amore mulierum — anno XLIII^{or} inter vitam et mortem calcabit. Dies Veneris, Lune sunt istis meliores, dies Martis, Saturni sunt mali et cetera.'
= **Pseudo-Ptolemy, *De nativitatibus hominum* (B.11)**, without the preface. No glosses. One page per sign with two sets of illustrations: the zodiacal sign in a medallion at the top and three figures representing the planet surrounded by two of its 'children' at the bottom.

Montpellier, Bibliothèque Interuniversitaire, Section de Médecine H 323

s. XIII^{ex}–XIVⁱⁿ ('Anno domini M^oCC^oLXXX fuit annus ab inicio mundi in circulo pascali 6480', f. 15v; added astronomical note mentioning the year 1330, f. 1v).

Parchment, I + 296 f. + I^a, several neat hands, decorated initials.

Computus, arithmetic and astronomy: title and table of contents, 17th or 18th c. (Ir–Iv); figure of armillary sphere (1r); table: coordinates of cities, mainly Italian and starting with Pisa (1v); Pseudo-Robert Grosseteste, *Kalendarium* (2v–8v); tables and notes of computus (9r–15v); Sacrobosco, *Algorismus* (16r–24v); Sacrobosco, *De sphaera* (24v–42r); Sacrobosco, *Computus* (42v–73r); Pseudo-Messahallah, *De compositione astrolabii* (74r–98v); *Theorica planetarum Gerardi* (98v–108r); Pseudo-Thebit Bencora, *De motu octave spere* (108r–112r); **Ptolemaica** (112v–117r); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (117r–118v); canons of Toledan tables (119ra–171rb); Toledan tables (172r–232v); comm. on Sacrobosco's *Algorismus* (233ra–234rb); notes on *algorismus* (235va–237vb); comm. on Sacrobosco's *De sphaera* (238ra–244va); comm. on Sacrobosco's *Computus* (244va–262vb); 'Incipit algorismus minutiarum. Cum minor quantitas aliquotiens sumpta...' (263ra–276va); comm. on the canons of Toledan tables

(276vb–295rb); astronomical tables (295v–296r); table of contents, 17th or 18th c. (I^ar). Blank: 2r, 73v, 156v, 171v, 234v–235r, 296v, I^av.

Bibl. *Catalogue général des manuscrits des bibliothèques publiques des départements*, I, Paris, 1849, 417–18; Pedersen 2002, I, 133–34; Lohr 2025, 102*–03*.

112v–117r ‘Liber quem edidit Thebith filius Chore de hiis que indigent expositione antequam legatur *Almagesti*. Equator circuli diei est circulus maior qui describitur super duos polos orbis — propinqui oppositioni So(117r)lis erunt retrogradi. Explicet Thebith de hiis que indigent expositione etc.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Mühlhausen, Stadtarchiv, 60/2

s. XV¹ (c. 1434–1450 for f. 191–230; f. 2–190 date from the middle of the 14th c.). **Or.:** probably Thuringia (Erfurt?) for the whole MS.

Parchment (f. 191–224 and 227–228) and paper (f. 1–190, 225–226 and 229–230), 230 f. MS made of five parts bound together c. 1440–1450: I, f. 2–120 (two hands, f. 2–42 and 43–120); II, 121–190 (a single hand); III, f. 191–211 (a single hand); IV, f. 212–224 (a single hand); V, f. 225–230 (three hands, f. 225+230, 226+229 and 227–228).

Geomancy, astronomy and metrology (parts III–V, f. 191–230): ***Ptolemaica*** (191ra–210rb); geomancy ‘Capitulum secundum de divisione 8 figurarum imparium. Capitulum secundum de tractatu reliquarum figurarum...’ (210va–211va); added astronomical notes (212r); William Rede, Oxford tables (213r–223v); metrology ‘Distinctio mensurarum et ponderum diversificatur tribus modis secundum Avicennam et Serapionem...’ (225ra–225vb and 230ra–230rb); astronomical tables (226r–226v and 229r–229v); tables of geomancy (227v–228v). Blank: 212v, 224r–224v (except for astronomical notes added by another hand f. 224v), 227r, 230v (except notes). The 14th-c. sections (parts I–II, f. 2–190) include: comm. on Johannes de Erfordia’s *Computus chirometralis* (2ra–30ra); comm. on Sacrobosco’s *Algorismus* (30ra–43vb); comm. on Sacrobosco’s *De sphaera* (44ra–65rb); ‘Circa principium huius libri queritur utrum diffinitio spere...’ (65va–82va); comm. on *Theorica planetarum Gerardi* (83ra–120ra); Euclid, *Elementa*, ed. Campanus of Novara (121r–190r).

Note According to the 15th-c. table of contents copied on the inner front cover, William Rede’s tables (f. 213–223) originally appeared before the geomantic sections (f. 191–211) and the latter were followed by six items which are no longer in the MS: ‘8^o Quidam tractatus de misteriiis numerorum et arte misteierandi (?) etc.; 9^o Duo alphabeta Grecum et Hebraicum et grammatica Greca N.; 10^o Figura Ptolemei de crisi; 11^o Divisiones graduum zodiaci in lucedos puteos augmentes fortunam; 12^o Exemplar directionis cuiusdem nativitatis. 13^o Habetur in tabulis folium de nominibus et proprietatibus figurarum geomancie’. Item no. 10 corresponds perhaps to the diagram that accompanies the *Glosa super 60 propositionem Centilogii Ptholomei* (C.3.2) or *Propositio Tholomei de crisi* (C.3.3). Item no. 13 may correspond to f. 227–228.

Bibl. <https://resolver.staatsbibliothek-berlin.de/HSP00052F0400000000> (description by Matthias Eifler); M. Eifler, W.J. Hoffmann, ‘Rechtsbuch, Lehrbuch, Zauberbuch, geistliches

Theaterspiel...: Entdeckungen in mittelalterlichen Handschriften des Mühlhäuser Stadtarchivs'; *Mühlhäuser Beiträge* 46 (2023), 217–49: 227–30. I am grateful to Matthias Eifler for drawing my attention to this MS.

- 191ra–210rb 'Incipit archanum Dei magis (!) revelatum Ptholomeo regi Arabium (!) de reductione geomancie ad orbes. Per hoc presens opus possunt cognosci exquisite presentia, preterita et futura — da michi virtute in hoc opere vel in hac arte vel in hac re, ut possim veritatem scire etc. Explicit liber secreta secretorum Dei archanorum atque volumen illustris regis Ptholomei Arabium (!) de reductione geomancie ad orbes planetarum et Deo laus etc.'
- = **Pseudo-Ptolemy, *Archanum magni Dei de reductione geomancie ad orbem* (B.17)**, in a different and longer version. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 51

s. XV^{ex}–XVIⁱⁿ (1485 for f. 1–16; 1486 for f. 37r–41v; 1487 for f. 18va–26vb, 34–36 and 111–123; 1503 for f. 89–98). **Or.:** copied by Jakob of Würzburg, at least partly in Erfurt (f. 111–123: 'Et est finis Deo gratias 1487 in Erfordia'). Jakob of Würzburg also copied at least three other astronomical and astrological MSS: Munich, BSB, Clm 125 (1486, in Cracow), Munich, BSB, Clm 214 (after 1487) and Munich, BSB, Clm 221 (c. 1488). **Prov.:** Munich, library of the dukes of Bavaria.

Paper, I + 135 + I^a f., a single hand (Jakob of Würzburg), beautiful MS copied with care, painted initials on f. 1r and 1v.

Astrology, astronomy and magic: table of contents by a later hand (Ir); Regiomontanus, canons of *Tabule directionum* (1ra–16vb); diagram and note on planetary radiations 'Omnis stella radiationes...' (17r); canons of astronomical tables 'Latitudine Lune vera investigare...' (17va–18rb), 'Ut ea que de mediis verisque motibus planetarum... sic est finis canonum eclipsium magistri Danconis' (18va–26vb) and 'Sequitur eclipsis Lune practica secundum canones precedentes...' (26vb–29vb); 'Tractatulus de cometa per omnia signa. In motibus planetarum...' (30ra–33vb); compilation of astrometeorology in 13 chapters 'Liber experimentorum Albumazar. Capitulum de floribus Albumazar in scientia gravitatis et levitatis annone...' (34ra–36va); Peurbach, *Canones eclipsium Solis et Lune* 'Tempus oppositionis vel coniunctionis medie luminarium...' (37ra–41vb); 'Horum que de eclipse solari dicta...' (41vb–45vb); 'Generalis modus inveniendi partem proportionalem...' (46ra); Hermes, *Centiloquium* (46va–48ra); Albertus de Brudzewo, *Canones Tabularum resolutarum* (49ra–58vb); 'Nota: Per istam tabulam poteris continuare almanach...' (59ra–60rb); Raymond of Marseille, *Liber iudiciorum*, variant version attr. Messahala: 'Incipit Liber Messahala iudiciorum astrorum utilissimus quem dicit Cammeracensis' (61ra–69rb); **Ptolemaica (69va–69vb)**; 'De tabulis 12 domorum pro elevatione poli et regionis in qua nativitas facta est...' (69vb–70rb), followed by several tables 'Tempus more', 'Medius motus Solis' etc. (70v–71r); Peurbach, *Theoricae novae planetarum* (72r–88v); John of Bruges, *Tractatus de astrologie veritate* (89ra–98va); Johannes de Glogovia, *Summa astrologie*, Book II (99ra–109rb); **Ptolemaica (109v)**; astrometeorology 'De apertationibus portarum et quid per eas significatur. Inquit Guido

Bonati...’ (110ra–110vb); *Liber Razielis*, Book VI (111ra–123va); astronomical tables ‘Tabule mediorum verorumque motuum planetarum ad meridianum Cracoviensem’ (124r–135r); ‘Nativitas facta anno Christi 63 in die...’, short text added by another hand (I_ar). Blank: Iv, 48v, 60v, 71v, 135v, I^av.

Bibl. CCLB, I.1, 11; Markowski 1990, 315; Juste 2011–2015, I, 51–52; Malpangotto 2020, 661–62.

69va–69vb ‘Circulum pro exitu geniture ab utero iuxta verbum Ptolomei quinquagesimum primum rectificare. Sit tempus datum geniture cuiuspiam in anno, die, horaque, pro quo quidem tempore figura celi sit inventa — illum tota figura est rectificanda in tempore.’
= **Albertus de Brudzewo (?)**, *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17). No glosses. The text is followed, without a break, by additional material on rectification f. 69vb–71r.

109v ‘Nature particulares signorum et facierum quas ponit Ptolomeus secundo Quadripartiti, capitulo undecimo, verificate per venerabilem egregium virum patrum (!) Gaschowicz medicine doctorem. Totum signum Arietis facit tonitrua et lampagos — (Pisces) meridionales facientes grandinem <de natura> Saturni’ (in the form of a table).
= **Petrus Gaszowiec**, *Tabula de naturis particularibus signorum et facierum* (C.2.7). The table is preceded by two notes on f. 109rb: ‘Item, octava spera tempore Ptolomei huc usque mota est 19 gradibus et quasi per duas facies recessit octava spera a nona’ and ‘Nature signorum sunt duplices, scilicet universales et particulares — ista natura loquitur sequens tabula.’ No glosses.

Munich, Bayerische Staatsbibliothek, Clm 56

s. XV¹ (1434 for f. 3r–120r; 1436 for f. 123r–153v). **Or.:** copied by Reinardus Gensfelder of Nürnberg at least partly in Salzburg (cf. f. 153v: ‘Explicit Liber theoreumacie finitus Saltzburge anno 1436^o’). Reinardus Gensfelder also copied MS ↗Vienna, ÖNB, 5418. **Prov.:** Johannes Fleckel, who brought the MS to the Dominican convent in Vienna in 1457; Burckard Keck of Salzburg; Hartmann Schedel; Munich, library of the dukes of Bavaria. The origin and early history of the MS are detailed in a note added on f. 3r: ‘Iste liber est conventus Wienensis fratrum ordinis predic<atorum> in Austria, quem eidem attulit frater Iohannes Fleckel anno domini 1457 ante professionem suam de seculo, et fuit quondam magistri Reinhardi de Nurn<berga>, quem propria manu scripsit. Quapropter scitote omnes et singuli prout superius est narratum quod idem liber est datus a prefato conventu Burckardo Keck civi Saltzb<urgensi> prout habetur in litteris sibi ab eodem conventum datis pro peccunia satis legali.’

Paper, 232 f., a single hand.

Astronomy and geometry: table of contents, added by a 15th-c. hand (1v); *Ptolemaica* (3r–120r); *Liber theoreumacie* (123r–153v); Petrus de Guclina, *Theorica planetarum*

(161r–181v); ‘De quadratura circuli. Ad probandum quod sit dare quadratum equale aree circuli...’ (182r–186v); ‘Si ab aliquo puncto signato quod tantum distat a circumferentia...’ (187r–188r); **Ptolemaica** (197r–206v); *De inquisitione capacitatis figurarum* ‘Aliquid de inquisitione capacitatis figurarum et quibusdam arithmetricis...’ (207r–218v, ed. Curtze, 36–58); ‘Si volueris scire aream trianguli equilateri...’ (219r–222r). Blank: 1r, 2, 120v–123r, 154–160, 188v–196v, 222v–232v.

Bibl. CCLB, I.1, 12; M. Curtze, ‘De Inquisitione capacitatis figurarum. Anonyme Abhandlungen aus dem fünfzehnten Jahrhundert’, *Zeitschrift für Mathematik und Physik. Historisch-litterarische Abth.* 42 (1898), 29–68: 29–34; Clagett 1964–1984, I, xxviii; Zepeda 2018, 67–68.

3r–120r ‘Omnium recte philosophantium non solum verisimilibus coniecturis — tenebrarum sic se habent. Explicit Almagesti minor finitus anno Christi 1434^e.’

= **Almagesti minor** (C.1.4). No glosses. The work is attributed to Thomas Aquinas in the table of contents f. 1v: ‘Primo Almagesti abbreviatum per magistrum Thomam de Aquino et continet libros sex, incipit folio 3^e.’

197r–206v ‘Incipit tractatus de quantitate trium solidorum. Capitulum primum de distantia Lune a terra. Quia tria corpora solida particularium — quia quod modicum distat nichil distare videtur etc. Explicit tractatus de quantitate trium solidorum secundum sententiam Ptolomei in Almagesti etc.’

= **Johannes Andree Schindel, Tractatus de quantitate trium solidum** (C.1.15). No glosses. The work is attributed to Johannes Schindel in the table of contents f. 1v: ‘Item tractatus de quantitate trium solidorum magistri Iohannis Schindl, folio 197.’

Munich, Bayerische Staatsbibliothek, Clm 59

s. XV. **Prov.:** Munich, library of the dukes of Bavaria.

Paper, 308 f., several hands, one of which copied f. 132–308.

Astrology: Guido Bonatti, *Liber introductorius ad iudicia stellarum*, Books VIII, X, I and VII (1ra–229rb); Hermes/Belenus, *Liber imaginum Lunae* (189va–189vb); representation of the constellations (229v–236v); short text on aspects ‘Dicuntur autem signa...’ (237ra–238vb); Thebit Bencora, *De imaginibus* (239ra–240vb); **Ptolemaica** (240vb–242vb); Hermes/Enoch, *Liber imaginum signorum* (243ra–244rb); Haly Abenragel, *De iudiciis astrorum*, VIII and VII.100–01 (244va–281vb); Firminus de Bellavalle, *De mutatione aeris* (282ra–308vb). Blank: 117v–119v, 125v–131v.

Bibl. CCLB, I.1, 13; Juste 2011–2015, I, 52–53; Blume/Haffner 2012–2016, II.1, 497–500.

240vb–242vb ‘Capricornus sub eiusdem horoscopo cum volueris videre mirabilia in hominibus fiat ymago stagna puelle sedentis — (Sagittarius) capita sua nec surgant nec latrent et etiam intra quocumque volueris et sequetur effectus.’

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, end missing. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 228

s. XIV² (1366 for f. 83r–93v, cf. colophon; the text on f. 218 was added in or after 1382). **Prov.:** Munich, library of the dukes of Bavaria.

Paper, 266 f. (f. 46 missing, f. 100–266 previously numbered 2–168), several contemporary and similar hands. One or several folia are missing between f. 97 and 98.

Astrology: Gergis, *De significatione septem planetarum in domibus* (1r–3r); Alcabitius, *Introductorius* (3r–26r); astrological notes (26v); *Capitula Almansoris* (27r–29v); Zael, *Liber iudiciorum*, incomplete (30ra–42vb); compilation partly based on the *Alchandreana* (42vb–45vb); *Liber novem iudicum* (47ra–70vb); John of Stendal, comm. on Alcabitius's *Introductorius*, incomplete (71ra–80ra); astrological notes (82r); **Ptolemaica (82r–93v)**; Albumasar, *Flores*, end gone (94r–97v); Gergis, *De significatione septem planetarum in domibus*, beginning gone (98r–98v); Haly Abenragel, *De iudiciis astrorum* (99r–261va); William Scot, *De coniunctionibus planetarum transitis et futuris* (218va–218vb, added on a blank page); Alkindi (?), *Saturnus in Ariete sub radiis...* (261vb–262rb); **Ptolemaica (262va–265ra)**; astrological notes (265r); Messahallah, *De cogitatione* (265va–266ra); astrological notes (266ra–266v). Blank: 45v–46v, 80v–81v, 82v.

Bibl. CCLB, I.1, 56; Lemay 1999, I, 252 and 349–51; Juste 2011–2015, I, 59–61.

83r–93v 'Ptolemei Centiloquium [title added in upper margin by another hand]. <M>undanorum ad hoc et ad illud mutatio corporum celestium... Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Dixit Ptholomeus ex te et illis, significat quod qui res futuras prenoscere desiderat — (93r) et quanto melius quivimus exposuimus. Ptho<lome>us in hoc libro tricas et tricarum nomina posuit... <S>telle cum caudis sunt novem — regibus et divitibus apparebit. Et hoc de cometis breviter distinximus. Nunc dexeptus (?) etiam nativitatis hora. Dixerunt Ptho<lome>us et Hermes quod Lune locus in hora — expertus fui multotiens. Et sic est finis. Explicit Centiloquium Ptholomei regis cum commento sui commentatoris Haly anno domini 1366.'

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium***, '**Mundanorum**' version (C.3.1.3). The text ends with Pseudo-Ptolemy's *De cometis* (B.4) on f. 93r–93v (see below) and *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 93v (see below). Glosses by the scribe.

93r–93v 'Ptho<lome>us in hoc libro tricas et tricarum nomina posuit... <S>telle cum caudis sunt novem — regibus et divitibus apparebit. Et hoc de cometis breviter distinximus.'

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). Glosses by the scribe.

- 93v 'Nunc dexeptus (?) etiam nativitatis hora. Dixerunt Ptho<lome>us et Hermes quod Lune locus in hora — expertus fui multotiens. Et sic est finis.'
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). Glosses by the scribe.
- 262va–265ra 'Ptolemei Centiloquium [title added in upper margin by another hand, the same as f. 83r above]. Anima que ex natura dat iudicia iudicabit super secundas stellarum — ex aliqua civitatum eiusdem climatis.'
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**, v. 4–100, without the commentary. There is a blank space at the beginning, probably meant for v. 1–3. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 275 [Plate 17]

s. XV² (f. 2r–12v copied in 1469, cf. colophon). **Or.:** MS assembled and partly copied by Hartmann Schedel in Nürnberg. **Prov.:** Munich, library of the dukes of Bavaria.

Paper, I + 197 f., two hands (I [Hartmann Schedel]: f. I–61, 158r and 192r–197; II: f. 62–157), beautiful MS with painted initial on f. 2r. F. 159–191 contain a book printed in Augsburg in 1472.

Astrology and astronomy: table of contents (Ir); astrological notes (1r); Ptolemy's biography excerpted from Walter Burley's *De vita et moribus philosophorum*: 'Ptolomeus philosophus tempore Adriani imperatoris claruit... in quadruvialibus valde doctissimus. Hec ex libro de vita et moribus philosophorum'; ***Ptolemaica* (2r–13r)**; astrological notes (13v–14r); John of Gmunden, *Kalendarium* 1439–1514 (14v–29r); computus tables 1463–1501 for the meridian of Nürnberg (29v–31^{bis}r); solar and lunar tables 1464–1527 (32r–34v); canons for an almanac, in German (35r–37v), including tables for Venus (36v–37r); astronomical and astrological notes (37v–38r); Prophatius Judeus, *Almanach* (38v–57v); tables of houses for latitude 48° (58r–59v); 'Tabula stationum et directionum planetarum' (60r–60v); Leopold of Austria, *De astrorum scientia* (61v–132r); Albumasar (?), *Liber similitudinum*, beginning only (132r–132v); Pierre d'Ailly, *Elucidarium astronomice concordie cum theologica et historica veritate* excerpts (132v–138v); Pierre d'Ailly, *Apologetica defensio astronomice veritatis*, excerpts (139r–139v); Pseudo-Albumasar, *Astronomia de diebus creticis* (139v–144r); Perscrutator, *De impressionibus aeris* (144r–154v); Pierre d'Ailly, *Vigintiloquium de concordia astronomice veritatis cum theologia*, excerpts (154v–156r); Pierre d'Ailly, *De concordantia astronomice veritatis et narrationis historice*, excerpts (156r–157v); notes added by Hartmann Schedel: planetary positions for 10 February 1440 and horoscope for 23 February 1479 (?) (158r); Isidore of Seville, *De natura rerum*, printed (159r–178r); Eberhard Schleusinger (Thurecensis Phisicus), *Tractatus de cometis*, printed (180r–191v); Hartmann Schedel, notes on comets (192r); Bethen, *Centiloquium* (192v–195r); note of Hartmann Schedel (196v); Hartmann Schedel, notes of medicine and astronomy (197r–197v). Blank: Iv, 31^{bis}v, 61r, 158v, 178v–179v, 195v–196r.

Bibl. CCLB, I.1, 69–70; Lemay 1999, I, 252–53; Juste 2011–2015, I, 63–64.

- 2r–12v ‘Dixit Ptolomeus: Iam scripsi tibi fore libros de hoc quid operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est — et quanto melius quivimus exposuimus. Finit Centiloquium Ptolomei astrologi cum commento Halii. Scripsi Hartmannus Schedel anno domini MCCCC^oLXIX^o die undecima Aprilis in Nuremberga. Laus Deo optimo.’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**, in ‘Mundanorum 2’. The commentary is missing for v. 1, 3–4 and part of 6 (but blank spaces have been left for it *in loco*) and v. 10 is missing altogether. No glosses. This and the following sections were copied on MS →Munich, BSB, Clm 276.
- 13r ‘Ptolomeus dixit: Iste stelle cum caudis sunt novem — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 276

s. XIV^{med} (1351 for the Ptolemaic sections, cf. colophon f. 86vb; the same hand copied f. 76–80 in 1350; f. 148–156 were added in the 15th c.). **Or.:** Germany (some texts are in German), the Ptolemaic sections were copied by one master ‘Chonradus Wernshover’ (reading uncertain), cf. colophon f. 86vb below and f. 80vb: ‘Scriptus a Ch<onrad>o W<er>nshov<er> anno 1350.’ **Prov.:** Hartmann Schedel, who copied both Ptolemaic sections from this MS into MS →Munich, BSB, Clm 275; Munich, library of the dukes of Bavaria.

Paper (except f. 69–74 and 100 on parchment), 161 f., several hands, one of which copied f. 1–67, and another [Chonradus Wernshover] f. 75r–86v, 91v–92v, 96r, 97r–99r, 100v–111v, 113r–128r and 144r–147v.

Magic, astrology, geomancy, alchemy and medicine: Apollonius, *Flores aurei* (1ra–39ra); *Ars notoria* (39va–47va); John of Morigny, *Liber visionum beate Marie* (48ra–67ra); magical recipes (68r); *Si quis per artem geomanticam...* (69ra–73rb); chapter index of a work of geomancy ‘Capitula geomancie in 12 inquisitionibus secundum 12 domorum mansionem artis astronomie. De qualitate status. De vita hominis...’ (73rb); list of chapters of another (?) work of geomancy (73va–73vc); magical diagram (74r); Galen, *De flebotomia* (75ra–75vb); Galen, *Secreta* (76ra–80vb); Galen, *De voce et anhelitu* (81ra–82ra); onomancy ‘Nota de egris utrum convalescat vel moriatur...’ (82rb–82v); **Ptolemaica (83ra–86vb and 86vb)**; Augustine of Trento, prognostication for 1340 (87ra–91rb); magical recipes (91va–92vb); ‘Geomancia est vaticinatio terrenorum et astrorum sive ex stellarum cognitione...’ (93ra–95vb); drawing of a zodiac man (95vb); two revolution horoscopes for 1340 (96r, cf. 87r–91r above); alphabets (96v); ‘Modus levandi artem geomancie est brevis et facilis...’ (97ra–99rb); fragment of a text in German (100r); notes of geomancy (100v); alchemical texts and notes, partly in German (101ra–143r); list of plants, alphabetical (144ra–147vd); Nicolaus Cusanus, prognostication for 1433 (148r–156v); list of pharmacological products (157r–157v); recipes (158ra–159va); ‘Circa mineralia Avicenne. Istius libri quatuor sunt cause sicut cuiuslibet alterius...’ (160ra–161rb). Blank: 67v, 68v, 74v, 99v, 143v.

Bibl. CCLB, I.1, 71–72; Lemay 1999, I, 350–51; Juste 2011–2015, I, 64–65.

- 83ra–86vb ‘<D>ixit Ptolomeus: Iam scripsi tibi fore libros de hoc quod operantur stelle in hoc seculo... <S>cientia stellarum ex te et ex illis est — et quanto melius quivimus exposuimus. Explicit Centiloquium Ptolomei cum commento Haly. Finitus (?) et scriptus per manus magistri Ch<onrad>i dicti W<er>nshov<er> anno domini 1351 in die decollationis Iohannis Baptiste.’
= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, ‘**Mundanorum**’ version (C.3.1.3), in ‘Mundanorum 2’. The commentary is missing for v. 1, 3–4 and part of 6 (but blank spaces have been left for it *in loco*) and v. 10 is missing altogether. No glosses, except for two lines in Hebrew f. 83r.
- 86vb ‘Ptolomeus dixit: Iste stelle cum caudis sunt IX — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy**, *De cometis* (B.4). No glosses.

Munich, Bayerische Staatsbibliothek, Clm 458

s. XV. **Or.:** Hartmann Schedel, who copied part of the MS. **Prov.:** Munich, library of the dukes of Bavaria.

Paper, 153 f., two hands: I (Hartmann Schedel): f. 1–37 and 140–141; II: f. 38–139 and 142–153.

Astrology and geomancy: *Alchandreana* (1r–36r); notes of geomancy ‘Notandum quod aliqui operantes in geomancia...’ (37r–37v); ‘Incipit methodus universalis archani sublimis et magni Dei ad sciendum verum et certum iudicium secundum scientiam geomancie...’ (38r–96v); Albumasar (?), *Liber similitudinum* (97r–103v); ‘Solis hora mala et dura ad omnia semper videtur...’ (103v–104r), ‘Triste, Satur, claustrum Iovis...’ (104v–105r); **Ptolemaica** (105r–116r); ‘Dies dominica dies Solis dicitur. Solis dies. Hora eius cum fuerit nocturna sive diurna...’ (116r–116v); *zodiologium* ‘In hys signis tropicis, videlicet Aries, Cancer, Libra, Capricornus...’ (116v); ‘Si videris et inveneris lapidem bonum habet...’ (117r); notes and tables of geomancy (117v–118v); Hermes/Enoch, *Liber imaginum signorum* (118v–121v); ‘Duplex est coniunctio planetarum scilicet superior et inferior...’ (121v–137v); compilation partly based on Pseudo-Ptolemy’s *Iudicia* ‘Post planetarum tractatum de Capite et Cauda Draconis...’ (137v–139v); geomantic figures (140r–141r); *Si quis per artem geomanticam...* (142r–153r). Blank: 36v, 141v, 153v.

Note This MS is closely related in content to MS $\rightarrow$ Paris, BnF, lat. 7457.

Bibl. CCLB, I.1, 126–27; Juste 2007, 339–40; Juste 2011–2015, I, 70–71.

- 105r–116r ‘Per hoc opus possunt cognosci — et alie sunt fallaces. Explicit novus modus geomantie qui intitatur Archanum magis (!) Dei.’
= **Pseudo-Ptolemy**, *Archanum magni Dei de reductione geomantie ad orbem* (B.17). No glosses.

Munich, Bayerische Staatsbibliothek, Clm 588

s. XIV¹ (most of the MS was probably copied between 1340 and 1350, cf. f. 2r–4r, 87va–93va and 130r). **Or.:** Bavaria or Austria (?). **Prov.:** Hartmann Schedel; Munich, library of the dukes of Bavaria in 1571.

Parchment, 239 f., several contemporary hands.

Geomancy, astrology and astronomy: table of contents, medieval (1v); table of conjunctions Sun-Moon 1340–1365 (2r–4r); William of Moerbeke, *Opusculum geomancie* (6ra–55vb); ‘Acquisitio in Ariete continetur et est figura aerea, masculina...’ (56ra–57vb); ‘Nota prima figura quesita in sorte significat in humano corpore caput...’ (57vb–58rb); *Ars geomancie* (58va–87va); ‘Incipit elucidatio de vero modo planetarum super almanach. At verus locus cuiuslibet planete scias...’, with example for the year 1343 (87va–93ra); Guillelmus Anglicus, *De urina non visa* (93rb–96va); ‘Incipit operatio quadrantis secundum quod mathematice operationes determinantur. Quoniam tota doctrina data in quadrante...’ (96va–100va); ‘Incipit tractatus extractus a libro novem iudicum. De iudiciis. Postquam determinatum est de illis que necessaria sunt in iudiciis...’ (100va–108va, this text does not seem related to the *Liber novem iudicum*); tables of astrometeorology (109r–112r); **Ptolemaica (112va–113rb)**; Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. Haly (113va–115ra); ‘Elucidatio theorice planetarum. Sol et Luna et alii planete quosdam suo motu sub zodiaco...’ (115rb–120ra); astronomical tables (120v–121v), including a table of the movement of the eighth sphere for 1300–1390 (121v); *Breviarium Albandrei summi astrologi*, ch. 7 (121v); ‘Notandum ad habendam notitiam additionis secundum artem algoristicam...’ (122ra–129vb); observations or predictions (?) for the years 1345 and 1350, with a table giving the planetary ruler of each year from 1347 to 1386 (130r); coordinates of cities (130v); John Maudith (?), *Ars et operatio novi quadrantis* (131ra–136vb); Pseudo-Messahallah, *De compositione astrolabii* (137va–141rb); Roger of Hereford, *De quatuor partibus iudiciorum astronomie*, beginning only (137ra–137vb); Leopold of Austria, *De astrorum scientia*, Books III–VIII (142ra–181ra); Messahallah, *De cogitatione* (184ra–184vb); Messahallah, *Liber interpretationum* (184vb–186va); Hermes, *Centiloquium* (186va–188va); Zael, *Liber iudiciorum* (189ra–219vb, preceded by chapter index f. 188v); Zael, *Liber iudiciorum* (*Introductorium* and *De interrogationibus*) in a different and incomplete version attr. Ptolemy ‘Primum est oriens rerum primordiis ducatum — Explicit liber iudicialis Tholomei’ (220ra–233rb); Zael, *Quinquaginta precepta*, in a different version ‘Ex 50 principalibus iudiciis, primo notandum quod ducatus celestis in rebus humanis est Luna...’ (233rb–233vb); Gergis, *De significatione septem planetarum in domibus* (233vb–236vb); ‘Dicuntur signa se aspicere, hoc est omne signum aspicit...’ (236vb–237vb); ‘Sicut ex pluribus actoribus colligitur querens...’ (238ra–238vb). Blank: 1r, 4v–5v, 80v–81v, 141v, 181v–183v, 239.

Bibl. CCLB, I.1, 159; Pedersen 1983–1984, II, 734; *Katalog der illuminierten Handschriften der Bayerischen Staatsbibliothek in München*, V: B. Hernad, *Die Gotischen Handschriften deutscher Herkunft in der Bayerischen Staatsbibliothek*, 1: *Vom späten 13. bis zur Mitte des 14. Jahrhunderts*, Wiesbaden, 2000, 143 (no. 204); Panti 2001, 258–59; Juste 2011–2015, I, 75–77; Moulinier-Brogi 2011, 221–22.

112va–113rb ‘Ptolomeus in hoc loco seu libro tricas et tricarum nomina ponit... Ptolomeus dixit quod stelle cum caudis sunt 9 — (113ra) in divitibus et regibus apparebit.

Et hec de cometis breviter discernimus. Trica est ignis sublimatus — qualitas rei future cuius est signum. qualitas rei videtur cuius est signum. Explicit tractatus domini Roberti Lyncon<iensis> de cometis. Deo gratias. Explicit. Deo gratias. Amen.'

= **Pseudo-Ptolemy, *De cometis* (B.4)**, attr. Robert Grosseteste. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 719

s. XVI² (f. 71–74 were copied after 1588, date of Thomas Savile's translation of Geminus, cf. f. 71r). **Prov.:** Johannes Praetorius.

Paper, II + 74 f., two hands (f. 1–70 and 71–74). Folia are missing after f. 74.

Astronomy: table of contents by another hand (Iv); title page 'Theonis Alexandrini commentarii Magnae Ptolomaei constructionis conversi in Latinam linguam a Joh<anne> Hommilio' (IIr); ***Ptolemaica* (1r–70v)**; Geminus of Rhodes, *Phainomena*, tr. Thomas Savile, incomplete (71r–74v). Blank: Ir, IIv.

Bibl. CCLB, I.1, 184; Müller 1998, 49 and 331–33, no. 152 (entries by M. Folkerts).

1r–70v 'Theonis Alexandrini in primum librum Mathematicae constructionis Ptolomaei commentarius. Prooemium. Saepius admonitus ab autoribus, fili Epiphani, explicare ea, quae cuique difficilia videntur in Mathematica Ptolomaei constructione — quam Ptolomaeus 47' 8" esse affirmat.'
= **Theon of Alexandria, (*Commentum in Almagesti*), tr. Johannes Hommel (C.1.30.1)**, I.1–10. Glosses by the scribe and by a contemporary hand.

Munich, Bayerische Staatsbibliothek, Clm 719a

s. XVI² (1556). **Prov.:** Johannes Praetorius.

Paper, 19 f., a single hand.

Ptolemaica (single text).

Bibl. CCLB, I.1, 184; Müller 1998, 49 and 333–34, no. 153 (entries by M. Folkerts).

1r–19r 'Ex Theone, Ptolomaei commentatore [note in upper margin by a contemporary hand]. De particularium scientiis. De initiis alicuius doctrinae dicturus planius, sicut in prioribus ea quae de mathematicis (!) speculationibus summam oportebat proponere — ut X partibus habebimus circumferentiam quae a recta dicta subtenditur. Finis. 1 Dec. 56.'
= **Theon of Alexandria, (*Commentum in Almagesti*), tr. in or before 1556 (C.1.30.2)**, I.9–10. No glosses, except for some calculations f. 4r and 18v and a few corrections, all by the scribe.

Munich, Bayerische Staatsbibliothek, Clm 3857

s. XIII². **Or.:** France, probably the University of Paris. **Prov.:** cathedral of Augsburg.

Parchment, 48 f., a single neat hand copied f. 1–46. F. 47–48 contain added notes by two or three hands, the first of which (f. 47r) might be that of the main scribe, albeit in a more cursive fashion. Initials and titles reserved.

Astrology: Albumasar, *Flores* (1ra–5ra); Gergis, *De significatione septem planetarum in domibus* (5ra–6ra); Jafar, *De pluviis et ventis* (6rb–7ra); astrometeorology, at least partly from the *Liber novem iudicum* ‘Aomar: Ex conventu itaque vel oppositione vel ex Solis...’ (7ra–8vb); Albumasar, *Introductorium maius*, tr. John of Seville, VI.1 (9ra–11rb); **Ptolemaica (11va–43va, 43va–43vb and 43vb–46vb)**. According to a table of contents added by another hand on f. 1r, the MS also contained Alcabitius’s *Introductorius* after the Ptolemaic section. The added notes (f. 47–48) contain three horoscopes borrowed from Henry Bate of Mechelen’s *Nativitas* (47r), hence posterior to 1280; a list of the 28 lunar mansions (47v); *Liber Alchandrei*, 19–20 (47v); the horoscope of a nativity of 16 March 1265 (47v); two horoscopes of a nativity of 23 December 1267 (48r); an unfinished *rota* containing the 12 signs and the 28 lunar mansions (48v).

Bibl. CCLB, I.2, 147; Zinner 1962, 49; Juste 2011–2015, I, 99–100; Steel/Vanden Broecke 2018, 1; J. Trede, A. Freckmann, *Katalog der lateinischen Handschriften der Bayerischen Staatsbibliothek München. Die Handschriften aus Augsburger Bibliotheken, 3: Domstift und Franziskanerobservatenkloster Heilig Grab, Clm 3831–3919*, Wiesbaden, 2018, 73–75.

- 11va–43va ‘Incipit Quadripartitum Ptolomei [title added in the margin, other hand]. <R>erum, Iesure, in quibus est pronosticabilis scientia stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro finem inponere non incongruum existimamus.’
= **Ptolemy, *Quadripartitum***, tr. **Plato of Tivoli (A.2.1)**. I, 11va–18va; II, 18va–25va; III, 25va–36ra; IV, 36ra–43va. The two items that follow (43va–43vb and 43vb–46vb) are considered parts of the *Quadripartitum* (see explicit f. 46vb). No glosses.
- 43va–43vb ‘<C>um proiectiones radiorum stellarum scire volueris, scias gradus ascendentis — et quod collectum fuerit erit locus radiationis equate.’
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6)**. No glosses.
- 43vb–46vb ‘<Q>uoniam in primo libro partium terminos et loca posuimus, iudicia sub earundem monstrare curavimus. Pars fortune et eius dominus corpus et que ad corpus attinent — aut eius domini hiis 12 contensibus (!) immitatur. Explicit Quadripartitus Ptholomei.’
= **Pseudo-Ptolemy, *Liber de iudiciis partium* (B.8)**. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 6748

s. XV¹ (1423 for f. 98v–102r, cf. f. 102r: ‘Explicit Flores Hermetis anno domini 1423’). **Or.:** southern Germany (Bavaria?). **Prov.:** cathedral of Freising.

Paper, 120 f., one main hand, except for f. 34r–36r, 98r–103r and 103v–117v, copied by three other hands.

Astronomy and astrology: Cristannus de Prachaticz, *Usus astrolabii* (1r–12r); **Ptolemaica** (13r–34r); Arnold of Villanova (?), *De iudiciis particularibus pertinentibus ad medicinam* (34r–35v); astronomical notes (35v–36r); Haly Embrani, *De electionibus horarum* (37r–57r); Zael, *Liber iudiciorum* (61r–98r: *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*); Hermes, *Centiloquium* (98v–102r); ‘Ianuarius. Aquarius. Tangere crura cave cum Luna videbit aquosum... Martius. Aries. Nil capiti facies Aries cum Luna refulget...’ (102v–103r); Sacrobosco, *De sphaera* (103v–117v); medical notes (120v). Blank: 12v, 36v, 57v–60v, 118r–120r.

Bibl. CCLB, I.3, 123; Lemay 1999, I, 351–52; Juste 2011–2015, I, 111; A. Freckmann, J. Trede, *Katalog der lateinischen Handschriften der Bayerischen Staatsbibliothek München. Die Papierhandschriften aus dem Domkapitel Freising*, III: *Clm 6473–6787*, Wiesbaden, 2021, 478–83.

13r–34r ‘Mundanorum ad hoc et ad illud mutacio corporum celestium... Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Pthol<ome>us, ex te et illis, significat quod qui res futuras prenoscere desiderat — (33r) et quanto melius quivimus exposuimus. Ptolomeus in hoc loco tricas et tricarum nomina posuit... (33v) Stelle cum caudis sunt novem — regibus et divitibus apparebit. Explicit Centiloquium Ptholomei.’

= Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3). The text ends with Pseudo-Ptolemy’s *De cometis* (B.4) on f. 33v–34r (see below). Two glosses by a later hand f. 24v.

33v–34r ‘Ptolomeus in hoc loco tricas et tricarum nomina posuit... (33v) Stelle cum caudis sunt novem — regibus et divitibus apparebit.’

= Pseudo-Ptolemy, *De cometis* (B.4), as part of the *Centiloquium* (see above). No glosses.

Munich, Bayerische Staatsbibliothek, Clm 10661

s. XV² (1470 for f. 71–72, cf. f. 72ra: ‘Laus Deo 1470’; 1471 for f. 37–50, cf. f. 50rb: ‘Amen. 1471’; the date 1470 is also mentioned f. 86r; possibly later for the hand that copied the Ptolemaic section). **Or.:** Italy. **Prov.:** the pen trials (16th or 17th c.?) f. 7–8 and 173–75 are in Italian and mention Italian names, including ‘Roma’ three times f. 172v and 173v; Bibliotheca Palatina of Mannheim, transferred to the Hofbibliothek of Munich in 1803–1804.

Paper (except f. 176–177, on parchment), 184 f., several hands, one of which copied f. 151–165 and 168–72.

Astronomy and astrology: Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (1ra–7ra); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (9r–32v); ‘Tractatus de compositione quadrantis compositum ut creditur a Thebit. Nota quod quadrans est spere plane quarta...’ (32v–33r); *Liber erarum* (33r–35v); ‘De compositione dorsi quadrantis. Inprimis collige centrum...’ (35r–35v); Alcabitius, *Introductorius* (37ra–50rb); ‘Nunc vero superest tertiam partem particulam diligentius pertractare in qua quidem pervigiles artis medicine...’ (50va–54va); John of Ligneres, *Canones primi mobilis* (57ra–63va); ‘Canon ad faciendum tabulas ascensionis regione...’ (63va–63vb); Nicolaus de Dacia, *Theorica planetarum* ‘Incipit prologus libri theorie planetarum. Floridas olim legere doctrinas...’ (64ra–70vb); Nicholas of Lynn, *Canon pro minutionibus et purgationibus recipiendis* (71ra–72ra); Arnold of Villanova (?), *De iudiciis particularibus pertinentibus ad medicinam* (72rb–73rb); *Astronomia Ypocratis* (73rb–74vb); John of Saxony, *Canones* (75r–84v); astronomical tables (85r–148v); star table verified 1450 (149r–149v); Robertus Anglicus, *Quadrans vetus*, first part on construction (151r–152v); Pseudo-Messahallah, *De compositione astrolabii*, first part on construction (153r–161r); John of Ligneres, *Algorismus de minutiis* (161v–165v); tables: geographical coordinates of Italian cities ‘Italie descriptio ex Claudio Ptholomeo Cosmographiae libro tertio sumpta. Italie situs...’ (166r–167v); table: geographical coordinates of cities, with notes (168r); table: zodiacal chorography ‘Florentia, Francia, Ancona... subiacent Arieti et Marti...’ (168v); table: *De electionibus secundum cursum Lune per XII signa* (169r–169v); distances and size of the celestial bodies from Campanus of Novara’s *Theorica planetarum* (169v); ‘Canon et modus pingendi eclipsim Solis et Lune. Eclipsim Solis vel Lune volens figurare...’ (170r–170v); **Ptolemaica (171r–172r)**; ‘Opus quarundam notarum mirabilium quibus sciuntur vera loca planetarum et hore diei ac noctis. Fiat columpna et locetur in congrua basi...’ (172r–172v); Raymundus Lullus, *Liber definitionum*, fragment (176r–176v); Raymundus Lullus, *Ars generalis*, fragment (177r); Raymundus Lullus, *Ars brevis* (178r–184v). Blank: 7v–8v (except for pen trials), 36, 55–56, 150, 173–175 (except for pen trials), 177v.

Bibl. CCLB, II.1, 155; S. Eisner, *The Kalendarium of Nicholas of Lynn*, Athens (Georgia), 1980 43; J. Perarnau, *Els manuscrits Lul·lians medievals de la ‘Bayerische Staatsbibliothek’ de Munic*, II: *Volums amb textos llatins*, Barcelona, 1986, 173–74; Juste 2011–2015, I, 125–26; Zepeda 2018, 72.

171r–172r ‘Incipit opus armillarum. Queruntur primum due armille mesure orbiculares — vicinior vero est consideratio. Opus instrumenti declinationis Solis. Summe laterem ligneum vel lapideum — (171v) si Solis umbram in omni meridie circa utrumque maxime solstitium observaveris. Opus instrumenti quo latitudino Lune et distantia centri Lune a terra deprehenduntur. Summantur tres regule recte et planissime — arcus inquam deprehensus inter locum latitudinis Lune et visum locum Lune. Finis. Amen.’

= **Almagesti minor (C.1.4)**, excerpts on instruments from V.1, I.15 and V.11. Substantial glosses by the scribe.

Munich, Bayerische Staatsbibliothek, Clm 14111

s. XIV^{ex}–XVⁱⁿ (f. 181–214, the rest of the MS mainly dates from the second half of the 15th c.).
Or.: Germany. According to Wunderle, 281, the script of f. 181–214 is very similar to that of MS Vienna, ÖNB, 4316, copied in Prague in 1400. **Prov.:** St Emmeram of Regensburg.

Paper, 443 f. (new foliation in pencil in lower right corner, as in Wunderle), composite MS made of 14 parts bound together between 1502 and c. 1520. The fourth part (f. 181–214) is in a single hand, except for the item on f. 214v, added by a later hand.

Astrology and astronomy (f. 181–214): Alcabitius, *Introductorius* (181ra–198vb); **Ptolemaica (199ra–211va)**; table on the signs and the planets, drawn from Alcabitius's *Introductorius* (211vb–212rb); Petrus de Dacia, *Kalendarium*, excerpt (212rb–212v); syzygy tables 1273–1634/1729 (212v); table for computing the zodiacal position of the Moon, with canon (213r); Euclid, *Elementa*, ed. Campanus of Novara, excerpt I.1 (213va–214ra); sphere of life and death, added (214v). The other parts of the MS mainly deal with astronomy (see Wunderle).

Bibl. CCLB, II.2, 130; K. Vogel, *Die Practica des Algorismus Ratisbonensis. Ein Rechenbuch des Benediktinerklosters St Emmeram aus der Mitte des 15. Jahrhunderts nach den Handschriften der Münchner Staatsbibliothek und der Stiftsbibliothek St Florian*, München, 1954, 19–21; Busard/Folkerts 1992, I, 61–62; J. Perarnau, *Els manuscrits Lul·lians medievals de la 'Bayerische Staatsbibliothek' de Munic*, II: *Volums amb textos llatins*, Barcelona, 1986, 175–76; E. Wunderle, *Katalog der lateinischen Handschriften der Bayerischen Staatsbibliothek München. Die Handschriften aus St Emmeram in Regensburg*, I: *Clm 14000–14130*, Wiesbaden, 1995, 273–94; Lemay 1999, I, 253–54; Juste 2011–2015, I, 132.

198vb–211va ' (199ra) Dixit Ptholemeus: Iam scripsi tibi, Yesure, libros de hoc quod operantur stelle in hoc seculo... Sciencia stellarum ex te et ex illis... Cum dixit Ptholomeus, ex te et ex illis, significat quod qui res futuras prenosse desiderat — et ego Deum deprecor ut te dirigat. Perfecta est huius libri translatio 17^o die Martii, 12^o die Iumedi (!) secundi anno Arabum 530 etc. Et est finis huius operis. Fur: huius karte ledetur demonis arte, qui clepit hunc librum cleps est et cleps moriatur.'

= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr.**

Plato of Tivoli (C.3.1.1). Substantial glosses by the scribe, consisting of most propositions from the 'Mundanorum' version (C.3.1.3), starting with v. 1 at the bottom of f. 198vb (originally blank): 'Alia translatio habet alias propositiones quarum prima est hec: Mundanorum ad hoc et ad illud mutatio... Astronomus non debet dicere res specialiter sed universaliter...'. F. 202 consists of a piece of paper of smaller size inserted by the scribe and containing a repetition of v. 23 (first copied on f. 201vb) in a slightly revised version.

Munich, Bayerische Staatsbibliothek, Clm 14684

s. XIV² (1356 for f. 22–29, cf. f. 29v: 'Explicit liber de minuciis anno domini M^oCCC^oLVI^o').
Or.: St Emmeram of Regensburg for f. 22–100.

Parchment, 100 f., six neat hands (f. 1–21, 22–29, 30–33r, 33v–98r, 98v–99v and 99v–100r).

Astronomy and mathematics mainly: Sacrobosco, *Algorismus* (1r–7r); Sacrobosco, *De sphaera* (9r–21r); John of Ligneres, *Algorismus de minutiis* (22r–29v); enigmas (30r–33r); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (33va–52r); *Liber theoreumatice* (52v–70r); **Ptolemaica** (70v); *Theorica planetarum Gerardi* (71r–79r); ‘Incipit tractatus de ymaginibus Thebit Benchorat. Aspectus autem planetarum sic potest inveniri...’ (79r–81r — this text differs from Thebit Bencora’s *De imaginibus*); ‘Hic incipit quedam demonstratio bona. Si ab aliquo puncto quod tantum distat a circumferencia...’ (81r–82r); Pseudo-Messahallah, *De compositione astrolabii* (82v–98r); ‘Hic continetur notabile de novem limitibus. Cum igitur ultra summa...’ (98v–99v); ‘Notandum quod in radicum extractione in cubicis...’ (99v–100r); three alphabets ‘de Bossia’, ‘de Rassia’ and ‘Kaldeorum’, added (100v). Blank: 7v–8v, 21v.

Bibl. CCLB, II.2, 217; *Katalog der illuminierten Handschriften der Bayerischen Staatsbibliothek in München*, V: B. Hernad, *Die Gotischen Handschriften deutscher Herkunft in der Bayerischen Staatsbibliothek*, 1: *Vom späten 13. bis zur Mitte des 14. Jahrhunderts*, Wiesbaden, 2000, 140 (no. 201); R. Bergmann, S. Stricker, *Katalog der althochdeutschen und altsächsischen Glossenhandschriften*, III, Berlin, 2005, 1361; Juste 2011–2015, I, 137–38; F. Helmer, J. Knödler, *Katalog der lateinischen Handschriften der Bayerischen Staatsbibliothek München. Die Handschriften aus St. Emmeram in Regensburg*, V: *Clm 14541–14690*, Wiesbaden, 2019, 665–72.

70v ‘Notandum secundum Ptolomeum de 7 stellis caudatis. Ptolomeus in Centilogio dicit sic: Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Explicit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 14783

s. XV^{med} (most of the MS was copied in 1449–1450, cf. f. 17r, 27v, 28v, 32^{bis}r, 43r, 69v, 91r, 161r, 203v, 269r, 311v, 451v, 509r, 519r, 519v and 547r; syzygy (conjunction) tables starting 1450 and 1469, f. 2v–14v; f. 563–566 copied in 1456, cf. f. 563r and 566r). **Or.:** copied by Fridericus Amann, monk at St Emmeram of Regensburg, who signed ‘frater Fridericus’ f. 91r and 203v. **Prov.:** St Emmeram of Regensburg.

Paper, 566 f., a single hand.

Astronomy, mathematics and astrology: notes ‘Sic dabit in causa precedens...’ (1r–1v); astronomical tables with canons (2v–247r); canons of astronomical tables ‘Quamvis de motibus mediis et veris celestium omnium planetarum et stellarum fixarum...’ (249r–409v); Fridericus Amann of Regensburg, *Algorismus Ratisbonensis* (411r–441v); astronomical diagrams and notes (443r–446r); ‘Incipiunt regule equationum 7 excerpte de Alfragano. Sciendum quod superficies epicicli...’ (446v–451v); geometrical diagram (454v); ‘Geometria arithmeticalis (?). Quoniam circa geometriam multi propter raritatem et obscuritatem...’ (454v–482r); astronomical notes (485v); John of Gmunden, *Compositio quadrantis novi seu magni cum eius practica*, last chapters ‘Cum volueris mensurare altitudinem rei...’ (486r–494v); **Ptolemaica** (495r–505v); ‘Item secundum computacionem Alfragani filii Ameti...’ (505v–507v); geographical coordinates of cities (509r–519r); star catalogue

(519v–523r); astrological tables and notes (523v–538v); Leopold of Austria, *De astrorum scientia*, excerpts from Book VI ‘De mutatione aeris secundum Lewpoldum ducatus Austrie. De mutatione aeris prescire intendens...’ (539r–547r); astronomical tables (547v–562v); ‘Ad inveniendas radices civitatum mediorum motuum omnium planetarum...’ (563r–566r). Blank: 2r, 15v, 18r–20r, 21v–29v, 32, 49v, 50v, 66, 80, 82, 108v–109r, 123v–124r, 126r, 166v–169r, 172v–174r, 204, 222v–223r, 247v–248v, 410, 442, 452r–454r, 482v–485r, 508, 566v.

Bibl. CCLB, II.2, 233; K. Vogel, *Die Practica des Algorismus Ratisbonensis. Ein Rechenbuch des Benediktinerklosters St Emmeram aus der Mitte des 15. Jahrhunderts nach den Handschriften der Münchner Staatsbibliothek und der Stiftsbibliothek St Florian*, München, 1954, 10–11; Juste 2011–2015, I, 139; R. Kremer, ‘Cracking the *Tabulae permanentes* of John of Murs and Firmin of Beauval with Exploratory Data Analysis’, in *Editing and Analysing Numerical Tables. Towards a Digital Information System for the History of Astral Sciences*, eds M. Husson, C. Montelle, B. van Dalen, Turnhout, 2021, 363–422: 411–12.

495r–505v ‘De tribus corporibus solidis. Quia tria corpora solida particularium — quia quod modicum distat nichil distare videtur. Explicit tractatus de quantitate trium solidorum magistri Schindil compilatus anno 1420.’
= **Johannes Andree Schindel**, *Tractatus de quantitate trium solidum* (C.1.15). No glosses.

Munich, Bayerische Staatsbibliothek, Clm 18927

s. XII^{ex}. **Or.:** Germany. **Prov.:** Tegernsee in the 15th c. (ex-libris f. Iv and 158r).

Parchment, I + 158 f., two main hands, both very neat (I: f. 1r, 31–69 and 130–57; II: f. 70–129). It is difficult to say whether the tables on f. 1v–30v were copied by the first or by a third hand.

Astronomy and astrology: Tegernsee ex-libris and table of contents, 15th c. (Ir); table of contents (15th c.) and notes on the periods of the planets (1r); Toledan tables (1v–30v); *Liber ysagogarum Alchorismi* (31r–33r); canons of Toledan tables (33v–45r); Zael, *Liber iudiciorum* (46r–68v); Messahallah, *Epistola de rebus eclipsium* (68v–69v); astronomical tables with canons (70r–76r); **Ptolemaica** (76v–129r); two sets of planetary tables (78r–96v and 98v–120r); Pseudo-Aristotle, *De Luna* (129r–129v); Messahallah, *Liber receptionis* (130ra–136vb); Alfraganus, *De scientia astrorum*, tr. John of Seville (137ra–147vb); Aomar, *De nativitatibus* (148ra–157vb). Blank: Iv, 45v, 158r–158v (except a few scattered notes, including the Tegernsee ex-libris on f. 158r).

Bibl. CCLB, II.3, 221; Burnett 1987, 185 (no. 75); A. Allard, *Muḥammad ibn Mūsā al-Khwarizmī: le calcul indien (Algorismus). Histoire des textes, édition critique, traduction et commentaire des plus anciennes versions latines remaniées du XII^e siècle*, Paris-Namur, 1992, xxxvi–xxxvii; Pedersen 2002, I, 136; Juste 2011–2015, I, 147–49.

(76v–129r) ‘<S>ignorum alia sunt masculini generis, alia feminini — Mars piper, scuta et arma.’
= **Pseudo-Ptolemy**, *Iudicia* (B.3). The text alternates with the planetary tables on f. 76v–77v, 92v–93v, 97r–98r and 120v–129r. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 25009

s. XV–XVI.

Paper, 25 f. (+ f. 11^{bis}), a single hand.

Astrology and chiromancy: ‘De 12 signis zodiaci. Ut celum signis prefulgens est...’ (1r–3v); ‘In quocumque lapide inveneris Arietem vel Leonem...’ (4r–6r); ‘Nota de aspectibus. Mercurius, Luna, sextilis: Fortunata dies...’ (7r–11v); **Ptolemaica** (12r–19r); ‘Ciromantia. Nota si linea vite fuerit grossa...’ (20r–25v). Blank: 6v, 11^{bis}, 19v.

Bibl. CCLB, II.4, 156; Juste 2011–2015, I, 166.

12r–19r ‘De nativitatibus hominum. Inferiora corporis reguntur a superioribus... Incipit liber Ptholomei peritissimi astrologi de nativitatibus hominum. (12v) De ariete. Natus sub Ariete a medio mensis Marcii ad medium Aprilis erit magne industrie, nec dives — Dies Veneris et Lune sunt istis meliores, dies Martis et Saturni mali. Isti fideliter vivent, tam vir quam mulier. Et hec dicta pro nunc sufficiant.’
= **Pseudo-Ptolemy, *De nativitatibus hominum* (B.11)**. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 26764

s. XVI^{ex}, most of the MS was copied in 1589 and 1592, two dates often referred to in the margins. **Or.:** probably Tübingen (Juste). **Prov.:** Regensburg, Stadtbibliothek (until 1876).

Paper, 190 f., a single hand.

Astrologer’s handbook: coordinates of cities (1v–5v); tables: ‘Canones conversionis horarum et temporum aequinoctialium’ (6r–7r); Levinus Battus of Rostock, *Tractatus de componendis calendariis* (8r–67r); **Ptolemaica** (67v); table: astrometerology in connection with celestial configurations of 1588 (68v–69r); table: astrometeorology, mostly empty (69v–70r); astronomical tables with canons (71v–81v), including ‘Canon prior aequationis dierum naturalium ex Copernici doctrina’ (75v–76r); ‘De astrologia eiusque partibus. Caelum ... (?) in fixa sidera...’ (82r–161v); astrological notes (162r–163v); table: degrees of the twelve signs, dated 1595 (164r); table of houses for latitudes 42°, 45°, 48°, 49°30, 51°, 54° and 48°30 (165r–188v); other astronomical tables with canons (189r–190r). Blank: 1r, 7v, 68r, 70v–71r, 78, 163v–164v, 190v.

Bibl. CCLB, II.4, 211; Juste 2011–2015, I, 170–71.

67v ‘Ex Centiloq[ui]o Ptolemaei XXXIV. Dominator seu hospitator interlunii si cardinalis fuerit, quaecunque illo mense futura sunt, significat. Ex XXXV. Sol cum ad alicuius stella locum devenerit, vim eius excitat, quam in aere habet.’
= **Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16)**, v. 34–35 (without the commentary). No glosses. The text is followed by three notes: ‘Luna vel alius planeta consistens in aliquo

angulorum... Si Luna alicuius planeta post syzygiam... Idem praestat Luna si alibi consistens ex angulo...'

Munich, Bayerische Staatsbibliothek, Clm 27001

s. XV² (cf. f. 85ra: 'Luna et Saturnus anno 1466'; f. 86r–88v contain two letters copied in 1471, one from Paul II dated 18 April 1470. **Or.:** Germany (texts in German f. 145v–154v).

Paper, 171 f., several hands, one of which copied f. 1–144.

Astrology and astronomy, mainly notes, short texts and excerpts, among which: 'Cum astrolabium componere velis...' (2r–7r); Thomas Aquinas, *De iudiciis astrorum* (8r); Albumasar (?), *Liber similitudinum* (31vb–38rb); Alcabitius, *Introductorius* (90r–120r); Leopold of Austria, *De astrorum scientia*, Books VII and X (123ra–144ra). The Ptolemaic section takes place among scattered astrological and astronomical notes: 'Ad inveniendum planetam dominantem vel signum ascendens in radice alicuius hominis...' (1r); 'Aries, Leo, Sagittarius ignea, masculina...' (1r); 'Tabula eclipsium (?) Solis et Lune...' (1v); 'Tabula ad sciendum moram nati in utero...' (1v). The MS also contains the calculus of the victorious and the vanquished, opening 'Quia omnis scientia verissime... sicut **Ptholomeo** et Pictagore fecit...' (21va–22ra).

Bibl. CCLB, II.4, 232–33; H. F. Dondaine, H. V. Shooner, *Codices manuscripti operum Thomae de Aquino*, II, Roma, 1973, 421; Juste 2011–2015, I, 172–74.

- 1v '57^a propositio Ptho<lome>i. Locus Lune hora nativitatis et ipse gradus ascendens de circulo hora casus spermatidis et gradus ascendens hora nativitatis. In gradu occidente nota quod hore infantium in utero matris non sunt equales secundum quod dicit Haly — Nota differentia maior et minor est 30 dies.'
= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**, v. 51 (not 57), with a note adapted from the commentary. No glosses.

Munich, Bayerische Staatsbibliothek, Clm 27002

s. XVI¹ (f. 44r–71r copied in 1544–1545, cf. f. 44r: 'Inchoant 7 Novembris anno 1544', and f. 72r–77r copied in 1545–1546, cf. f. 72r: 'Postea die S. Elisabetae 1545'). **Or.:** a student's notebook, copied at the University of Wittenberg.

Paper, 78 f., a single hand.

Ptolemaica (single text). Blank: 14, 16r–17r, 19, 21, 28r, 43v, 55v, 66v, 78.

Bibl. CCLB, II.4, 233; Juste 2011–2015, I, 174.

- 1r–77v 'In Ptolomei Almagestum (!). Satis in multis visae partibus prodesse... De qualitatibus animae. De corporum accidentibus haec sit doctrina compendio tradita, sed qualitates animae, quae propriae sunt mentis et ratiocinationis

– aliam sumunt naturam, quam qualem habet totus quadrans ad totam orbem collatus.’

= **Philipp Melancthon**, *¶Lectiones in Quadripartitum* (C.2.22). Book III, 1r–20r; IV, 22r–43r; I, 44r–71r; II, 72r–77r. There are gaps and irregularities, for which the student appears to be at least partly responsible, as suggested by the intervening blank pages. The exact content is as follows: Book III.13 (ed. Robbins = III.14 ed. Hübner), 1r–12r; III.12 (Robbins = III.13 Hübner), incomplete, 12r–15r (blank: 14r–14r and 16r–17r); III.14 (Robbins = III.15 Hübner), incomplete (blank: most of 18v, 19r–19r and 21r–21r), 17r–20r; IV.1–4 (end of IV.2 missing on 23r, blank: 28r), 22r–28r; IV.7–10, 28r–43r (with, on 40r–40r, a digression on planetary astronomical cycles entitled ‘Annotatio m<agistri> Erasmi’, probably Erasmus Reinhold); I.1–17 (Robbins = I.1–18 Hübner), 44r–66r (blank: 55v and 66v); I.20–24 (Robbins = I.21–24 Hübner), with the beginning of I.20 missing, 67r–71r; II.1–3, with only the beginning of I.3, 72r–77r (blank: 78r–78r, followed by six unnumbered folia, also blank). Chapters are not numbered in the MS.

Munich, Bayerische Staatsbibliothek, Clm 29248(1 (*olim* Clm 29044)

s. XV.

Parchment, 10 f., a MS fragment made of five unnumbered bifolia, a single hand, decorated initials. Another bifolium from the same MS is now Munich, BSB, Clm 29830(4).

Astrology: Jacobus de Dondis, *De fluxu et refluxu maris* (1r–3r); **Ptolemaica** (3r–10v). The original MS also contained Zael’s *Liber iudiciorum*, of which fragments survive in Clm 29830(4 (see Juste 2011–2015, II, 182–83).

Bibl. Kristeller 1963–1992, III, 621 (Clm 29044); H. Hauke, *Katalog der lateinischen Fragmente der Bayerischen Staatsbibliothek München*, I: *Clm 29202–29311*, Wiesbaden, 1994, 61; Juste 2011–2015, I, 180.

3r–10v ‘Prologus libri Ptolomei centum verborum in astrologia. Dixit Ptolomeus: Iam scripsi tibi, Ihesure, libros de hoc quod operantur stelle in hoc seculo... Verbum I. Sciencia stellarum ex te et ex illis est... Expositio. Quod dixit Pto<lomeus>, ex te et illis, significat quod qui res futuras prenoscere desiderat — et fuerint ascendentes in angulo ex angulis regni...’
= **Abuiafar Hamet filius Joseph**, *¶Commentum in Centiloquium*, tr. **Plato of Tivoli** (C.3.1.1), missing the end of v. 100. Glosses by the scribe.

Munich, Bayerische Staatsbibliothek, Cod. Graec. 579

s. XVI². **Or.:** f. 8–15 copied by Johannes Praetorius. **Prov.:** Petrus Saxonius (1591–1625); Stadtbibliothek of Schweinfurt before 1687.

Paper, II + 16 + I^a f., two hands (f. 1–7 and 8–14).

Ptolemy, *Planetary Hypotheses*, Greek text, first part of Book I (1r–7r); **Ptolemaica (8r–15r)**. Blank: I–II (except modern notes f. IIv), 7v, 14v, 15v–16v, I^a.

Bibl. Heiberg 1907, CLXVII–CLXVIII; Müller 1998, 49 and 330–31, no. 151 (entries by M. Folkerts); *Katalog der Griechischen Handschriften der Bayerischen Staatsbibliothek München*, IX: F. Berger, *Codices graeci Monacenses 575–650*, Wiesbaden, 2014, 31–32.

8r–15r ‘Fragmentum versionis M. Bergii ex libello manuscripto et incorrecto, cuius titulus erat Κλαυδίου Πτολεμαίου περι ὑποθέσεων τῶν πλανωμένων. Hypotheses, o Syre, coelestium motuum in iis quidem quas de mathematicis scripsimus commentariis, oratione explicare conati sumus — (14r) Stella tandem a boreo limite obliqui circelli in consequentia mundi partibus. Finis. (15r) Pro lunari sphaera cogitetur — quo exordit m<ediorum> m<otuum> Solis.’
= **Ptolemy, *De hypothesibus planetarum*, tr. Matthias Bergius (A.3.1)**, with an additional chapter, on f. 15r (f. 14v is blank), which repeats the beginning of the chapter on the sphere of the Moon (as *supra* f. 10r) in a slightly revised version. Corrections and marginal notes by the scribe.

Naples, Biblioteca Nazionale, VIII C 33 [Plate 31]

s. XVI^{ex} (f. 21r–300r written in 1582, cf. f. 152r and 300r). **Or.:** University of Salamanca, autograph copy of Jerónimo Muñoz, who annotated the MS until at least 1589.

Paper, 300 f., a single hand.

Astronomy: astronomical tables and notes (5r–20v), including tables for latitude 39°30′ (5r, 7r), one table for 1474 (7v) and ‘Tabulae eclipsis (!) Lunae auctore Hieronymo Munos’ dated 1578 (15r–19r); **Ptolemaica (21r–300r)**. Blank: 1–4, 300v.

Bibl. Kristeller 1963–1992, I, 424.

21r–300r ‘Theonis Alexandrini commentaria in primum lib<rum> Mathematicae constructionis Ptolemei. Prooemium. Assiduo rogatus ab auditoribus, fili Epiphanie, dictarem aliqua in ea que, inquam (?), videntur ex Mathematica Ptolemaei constructione difficilia — descriptionum tabularum proportionalis supputando. Die 17 veteri calculo, 27 die vero novo Octobris mensis, anni 1582, decima hora antemeridiana, absolvebat Salmanticae Hieronymus Munos, cathedraticus astrologie gymnasii Salmanticen<sis>, translationem commentariorum Theonis Alexandrini in Magnam constructionem Cl<audii> Ptolemaei. Finis commentariorum Theonis Alexandri quae quidem (?) extant in Latinam linguam translatorum.’
= **Theon of Alexandria, (*Commentum in Almagest*), tr. Jerónimo Muñoz (C.1.30.5)**. Theon’s preface, 21r–22r; Book I, 22r–74v; II, 75r–114v; III, 115r–152r (followed by Muñoz’s additions, 152r–173v, with mention ‘Auctore Hieronymo Munos Valentino in gymnasio Salmanticensi publico astrologiae professore, anno 1582 die secunda mensis Augusti

absolvebantur Salmanticae 6 hora a meridie' on f. 152r); IV, 174r–190r (followed by Muñoz's additions, 190r–194v); V, 195r–221v; VI, 222r–251r; VII, 251v–253v (followed by 'De inveniendis veris locis stellarum fixarum et planetarum et reliquorum corporum in celo apparentium liber a auctore Hieronymo Munos astrologie in gymnasio Salmanticensi publico professore', 254r–272v); VIII, 273r–278r; IX, 278v–289r; X, 289r–293r (end missing, cf. f. 293r: 'Desunt in hoc loco usque ad finem decimi et commentaria totum undecimum et ex initio duodecimi aliqua et non invenitur prorsus. Verba sunt Bessarionis cardinalis que si potuisset invenire reliqua in Grecia non ommississet'); XII, 293r–294v (beginning missing, see above); XIII, 294v–300r. Muñoz's commentary, corrections and notes appear both in the text and in the margins.

Naples, Biblioteca Nazionale, VIII C 35

s. XIV. **Or.:** France. **Prov.:** the MS belonged to a bishop of Vaison-la-Romaine and appears to have been in northern Italy by the end of the 14th c., for f. 54v contains the fragment of an act issued by Cardinal Francesco Renzio (d. 1390) concerning taxes in Florence. The MS later belonged to the Florentine Dominican Benedetto Pagagnotti (d. 1523) and to 'three brothers Tramezini', who gave it to the bishop of Viterbo Giampietro Grassi (d. 1538), whose library was bought by Cardinal Alessandro Farnese. The history of the MS is detailed by notes in three different hands on f. Ir: 'Hic liber est r<everen>di domini episcopi Vasiensis', 'Domini Benedicti de Pagagnottis de Florentia ordinis Predicatorum' and 'Post hoc Tramezini fratres Bibliopolae Romae donarunt Jo. Crasso episcopo Viterbiensi' (Ir).

Parchment, I + 54 f., a single hand.

Astronomy and geometry: ***Ptolemaica* (1ra–44vb)**; Dominicus de Clavasio, *Practica geometrie* (45ra–51va). Blank: Iv, 52r–54r.

Bibl. M. Fossier, *La bibliothèque Farnèse. Étude des manuscrits latins et en langue vernaculaire*, Roma, 1982, 359.

1ra–44vb 'Geber super Almagestum Ptholomei. Cum practica geometriae [title added in upper margin, apparently by another hand]. <S>cientia species habet quarum melior post scientiam — sunt digniores ut evanescant et destruantur. Completa est declaratio eius. Completus est tractatus nonus, et est ultimus liber. Hunc librum transtulit in Toletum magister Giradus (!) Cremonensis de Arabico in Latinum.'
 = **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1ra–1vb; I, 1vb–7rb; II, 7rb–11va; III, 11va–14ra; IV, 14ra–18vb; V, 18vb–26ra; VI, 26ra–32vb; VII, 32vb–39rb; VIII, 39rb–41va; IX, 41va–44vb. Marginal notes by the scribe f. 4r, 10r, 25r and 36v.

Naples, Biblioteca Nazionale, VIII C 39

s. XVI–XVII.

Paper, 164 f., at least two alternating hands.

Ptolemaica (single text).

Bibl. Kristeller 1963–1992, I, 424–25.

1r–164v ‘Valentini Naibodae mathematici praeclarissimi in Claudii Ptolomei Quadripartitae constructionis apotelesmaticum quartum commentarius novus et eiusdem conversio nova. Caput primum, quod est proemium. Tes. 1. Quaecunque de utrisque et quae genituram precedunt... (151v) Tex. 90. Haec igitur de temporum contemplandorum via docta — carcerum tormentorumque minis pecunias excutiant.’
= **Valentin Nabod**, *In Claudii Ptolemaei Quadripartitae constructionis apotelesmata commentarius novus et eiusdem conversio nova* (C.2.30), Book IV. No glosses.

Naples, Biblioteca Nazionale, VIII C 40

s. XV^{ex} (1493, cf. colophon). **Or.:** Ferrara (cf. colophon). **Prov.:** Shank suggests that the contemporary scholar who annotated f. 12v–20r may have been the astronomer Giovanni Battista Abioso (1463–c. 1524).

Paper, 172 f., a single hand.

Ptolemaica (single text).

Bibl. Kristeller 1963–1992, I, 403; M. Shank, ‘Regiomontanus and Astronomical Controversy in the Background of Copernicus’ in *Before Copernicus. The Culture and Contexts of Scientific Learning in the Fifteenth Century*, eds R. Feldhay, F. J. Ragep, Montreal-London-Chicago, 2017, 79–109: 101 and n. 99.

1r–172v ‘Reverendissimo in Christo patri ac domino domino Bessarioni episcopo Tusculano, sancte Romane Ecclesie cardinali, patriarcha Constantinopolitano, Ioannes de Regio Monte se offert devotissimum. <A>dmiranti michi sepenumero vel potius graviter et inique serenti tam raros esse aetate nostra optimarum... (3r) Epithoma in Almagestum Ptolomei. Recte profecto meo iudicio nobiliores philosophi, o Sire, distinxerunt inter theoricam philosophie et practicam partem — quod postremo hoc in theoreumate explorare et cepto labori modum statuerit decrevimus. Amen. Finis epithomatis Ioannis de Monte Regio in Almagestum Ptolomei 25 Maii 1493, Ferrarie.’
= **Johannes Regiomontanus**, *Epitome Almagesti* (C.1.21). Preface, 1r–3r; I, 3r–21r; II, 21r–37r; III, 37r–55v; IV, 55v–66v; V, 66v–84r; VI, 84r–99v; VII, 99v–106r; VIII, 106r–114r; IX, 114v–127r; X, 127v–139r; XI, 139r–149v; XII, 149v–157r; XIII, 157r–172v. F. 12v–20r have been glossed

by a contemporary scholar, who mentions his own annotated copy of the *Almagest* (cf. f. 15v: 'vide glosam super hac figura in meo libro Almagesti'). A few corrections by the scribe.

Naples, Biblioteca Nazionale, VIII C 45

s. XV (mention '1418, 7 Febr.', f. 1r). **Or.:** Italy. **Prov.:** Aulo Giano Parrasio (1470–1522), who probably acquired the MS in Padua, where he lived for some time c. 1510 (cf. f. 1v: 'A. Iani Parrhasii et amicorum Patavii emptus aureo'); Antonio Seripando (1486–1531) (cf. f. 329v: 'Antonii Seripandi ex Iani Parrhasii testamento').

Paper, 330 f., a single hand. Two folia are missing between f. 122 and 123.

Astrology and astrological medicine mainly: table of contents, hand of the scribe (1r); scattered notes (1v); 'He sunt note ex libri centilogii Tholomei...' (2r–21v, see Note below); Bethen, *Centiloquium* (21v–27v); Hermes, *Centiloquium* (27v–34v); *Capitula Almansoris* (34v–44r); 'Liber de dominio planetarum in nativitatibus per omnes domos. Dominus primi si est in tali pulcher...' (44r–47v); Gergis, *De significatione septem planetarum in domibus* (48r–53v); Bethen, *De horis planetarum* (53v–57r); Messahallah, *De mercibus* (57r–63r); Messahallah, *Epistola de rebus eclipsium* (63r–67v); Arnold of Villanova (?), *De iudiciis particularibus pertinentibus ad medicinam* (67v–71r); Abraham Avenezra, *De luminaribus*, tr. Henry Bate of Mechelen (71r–80v); *Astronomia Ypocratis* (80v–88r); Alkindi (?), *Saturnus in Ariete sub radiis...* (88v–92r); 'Quod radices superior et inferior sint in egritudines curandis considerande. Radices due, videlicet superior et inferior, sunt in omnibus egritudinibus...' (92r–104v); Hermes, *Liber de sex rerum principiis*, excerpt 'Capitulum sequens est sumptum ex libro Hermetis Mercurii Trismegisti, et est de significatione tonitruorum in diversis 30a signis. In quocumque signo fit tonitruum...' (104v–105v); 'Tractatus de curis egritudinum per impressiones signorum. Incipiamus cum Dei auxilio de his tractare que possunt fieri Sole existente...' (105v–111r); 'Incipit tractatus de flebotomia et regimine in singulis observando mensibus. Flebotomia est vene recta incisio...' (111r–117r); Prophatius Judeus, *De aspectibus Lune ad alios planetas* (117v–121r); 'Gloriosus Deus et sublimis fecit in celo duo luminaria, unum maius, videlicet Solem, ut preesset diei calorem...' (121r–123v, end gone); Guillelmus Anglicus, *De urina non visa* (124r–127v, beginning gone); **Ptolemaica (128r–169v)**; Robert Grosseteste (?), *De impressionibus aeris*, attr. Haly (170r–175v); table of decans (176r); note 'Albumasar in suo Introduc<tori>o. Domus regum aut eorum similium sunt Aries, Cancer...' (176r); astronomy 'Annus solaris continet in se 65 (!) dies naturales et 6 horas...' (176v–180r); note 'Nota quod quilibet planeta est dominus diei quem denominat...' (180r); 'De mansionibus Lune quomodo formate sunt et earum nominibus. Prima mansio Lune incipit in primo gradu Arietis...' (180v–181v); 'De planetis et signis in quibus dominantur secundum Bedam. Aries quidem et Mars in Francia dominantur...' (181v); 'Incipit doctrina utilis super motu esse ac virtute primi mobilis et planetarum qui in suis orbibus moventur. Planete dicuntur sydera erratica vel errantia...' (182r–193v); tables of the twelve signs: essential dignities and qualities of degrees (194r–196v); 'Dixit Ezen. Quando vis scire nativitatem per questionem...' (198v); 'In nomine domini nostri Ihesu Christi ac eius beatissime matris Marie, incipit quedam summa iudicialis astronomie super quartam speculationem scientie iudiciorum que intitulatur de

interrogationibus que quotidie fiunt. Et quia omnis summatio abbreviatio et ordo antiquis nedum et modernis summe placere consueverunt...’ (199r–326r); notes: ‘Planete existentes in septima significant id quod est in terra illarum...’ (326v); ‘Capitulum de inventia rei occulti sive absconsi in loco. Cum aliquod occultum invenire volueris, considerato ascendente locum...’ (327r–329r); notes ‘Populi, Luna, A et dominus anni...’ (329v); fragment of astronomical table (330r); faded notes (330v). Blank: 197r–198r.

Note The text on f. 2r–21v is an anthology of the various branches of astrological judgements based on Pseudo-Ptolemy’s *Centiloquium*, the *Capitula Almansoris* and Zael’s *Liber iudiciorum*. Chapters taken from the *Centiloquium* occur on f. 2r–2v (‘He sunt note ex libri centilogii Tholomei notate sub hac rubrica in pronosticationibus generalibus, in quibus notis notata est solummodo inventio summaria de qua tractat in quolibet capitulo, unde cum plenarie volueris habere notitiam cuiusvis capituli recurras ad librum in quo plene reperies et expositionem etiam capituli de qua tractat. In capitulo 49 dicit: 120 esse coniunctiones que fiunt inter planetas et ponit eas. Capitulo 57 dicit: Aspiciendum esse locum minoris coniunctionis...’, v. 49, 57, 63–65, 94, 98, 97, 100, ‘ultimo capitulo’ [= *De cometis*, 35]; 7r–10v (‘Iste sunt note Centilogii Tholomei necessarie questionibus nativitatum. Verbo tertio dicit quod quando aliqua stella fuerit fortis...’, v. 3, 15–17, 23–25, 27, 29–30, 33–34, 37–38, 40, 44–48, 50–52, 67–74, 76–80, 87–90, 96–97) and 14r–14v (‘Note Centilogii Tholomei utiles omnibus questionibus et electionibus. Verbo 55^o dicit quod humiditates corporum accedunt in prima quarta...’, v. 55, 61, 87–88). The numbering of the *verba* is confused, being generally one below. The text has been rewritten or paraphrased, but it is clear that the author used Plato of Tivoli’s translation (see e.g. v. 55 [= 56] above).

Bibl. Kristeller 1963–1992, I, 425.

128r–169v ‘Commentum quoddam bone lucidationis super centum verbis principis astrologorum Tholomei incipit. <S>icut dicit Tholomeus in proverbio Almagesti: Non fit mortuus qui sapientiam dimisit, nec fuit pauper qui intellectum dominatus est — Ita et ortus istius et ideo non planeta dicenda sunt. Hoc enim satis dictum est superius. Explicit summa super Centilogio Tholomei edita a magistro Guillermo de Arrogonia. Exemplar fuit multum corruptum.’
= **William of Aragon, *Scripta supra Centilogium Ptholomei* (C.3.4).**
No glosses.

Naples, Biblioteca Nazionale, VIII C 49

s. XIII^{ex} (the scribe gives the position of the Head of the Dragon for the meridian of Toledo on 1 September 1288 in a note at the bottom of f. 80v; the years 1284–1285 and 1294–1295 mentioned in the notes f. 2r and 2v).

Parchment, 141 f., one main hand or several similar hands.

Astronomy, arithmetic and music: torn folio containing the fragment of a text mostly illegible (1r–1v); horoscope with note mentioning the years 1285 and 1284, partly illegible,

added (2r); representation of the constellations with note mentioning the years 1294 and 1295, partly illegible, added (2v–3r); Toledan tables (3v–66v); other astronomical tables (67r–81v), including tables for 1201–1318 (81r–81v); John of London, star table for 1246 in Paris (82r); astronomical diagram with notes (82v); **Ptolemaica** (83r–97r); astronomical diagram with notes (97v); lists of stars of the 12 signs (98r–100r); ‘Diversitatem aspectus Lune in longitudine...’, first lines only (100va); canons Cb of Toledan tables ‘Quoniam cuiusque actionis quantitatem...’ (103r–108v); ‘Incipit trac<ta>tus astrolabii. Capitulum primum. Astrolabium dicitur quasi astrorum labium per similitudinem...’, beginning only (111r); astronomical tables up to 1300 (111v–119r); ‘Ex libro Alpetragii in astrologia sua. Dico quod superius celum quando...’ (121ra–123vb); astronomical tables and diagrams (124r–125v); Robertus Anglicus, *Quadrans vetus* (126ra–129vb); Sacrobosco, *De sphaera* (130ra–135vb); Sacrobosco, *Algorismus* (136ra–139rb); Boethius, *De musica*, incomplete (139va–141vb). Blank: 100vb–102v, 109r–110v, 119v–120v (except for incomplete astronomical diagrams).

Bibl. ---

83r–97r ‘Stellatio Urse Minoris 7. Illa que est super extremitatem Capricorni in extremo Caude: 2° 0′ 10′ – 66° 0′ – 3. Illa que post istam et super Caudam: 2° 2′ 30′ – 70° 0′ – 4 — Declivior earum ad sept<entrionem>: 9° 13′ 50′ – 14° 50′ – 4.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, VII.5–VIII.1, star catalogue, with note added by the scribe at the end: ‘Nota quod stelle posite a Ptolomeo in Almagesti deficiunt in 15 gradibus ab illis eisdem que posite sunt Parisius anno domini 1246° in longitudine [cf. f. 82r above].’ No glosses.

Naples, Biblioteca Nazionale, VIII C 51

s. XVI–XVII.

Paper, 233 f., a single hand.

Ptolemaica (single text).

Bibl. Kristeller 1963–1992, I, 403.

1r–233r ‘Valentini Naibodae mathematici praeclarissimi in Claudii Ptolomei Quadripartitae constructionis apotelesmaticum tertium commentarius novus et eiusdem conversio nova. Caput primum, quod est prohemium. Postquam in superioribus explicata est a nobis casuum universitati evenientium theoria — in suo loco dictum est. Finis libri tertii Ptolomei.’

= **Valentin Nabod, *In Claudii Ptolemaei Quadripartitae constructionis apotelesmata commentarius novus et eiusdem conversio nova* (C.2.30)**, Book III. No glosses. Note by the scribe on f. 233v quoting Cardano and Nabod.

Naples, Biblioteca Nazionale, VIII C 52

s. XVI–XVII.

Paper, 133 f., at least two hands.

Ptolemaica (single text). Blank: 133v.

Bibl. Kristeller 1963–1992, I, 403.

1r–133r ‘Valentini Naibodae mathematici praeclarissimi in Claudii Ptholomei Quadripartitae constructionis apotelesmaticum quartum comentarius novus et eiusdem conversio nova. Caput primum quod est proemium. Tex<tus> 1. Quecunque de utrisque et quae genituram procedunt — carcerum tormentorumque minis pecunias excutiant. Finis.’
= **Valentin Nabod**, *In Claudii Ptolemaei Quadripartitae constructionis apotelesmata commentarius novus et eiusdem conversio nova* (C.2.30), Book IV. No glosses.

Naples, Biblioteca Nazionale, VIII C 53

s. XVI¹ (copied between 1460 and 1480 acc. Fossier). **Prov.:** Naples, Farnese Library.

Paper, 121 f., a single hand.

Astrology: Petrus Bonus Advogarius, zodiacal chorography, ‘Civitates Arieti subiectae. Florentia, Faventia, Neapolis...’ (1r); tables ‘Gradus qui tenebrosi, lucidi, vacui et fumosi dicuntur’ (1v–2r); **Ptolemaica** (3r–115v); table of contents (117r–118v); George of Trebizond, *Liber de antisciiis* (119r–121r, incomplete ‘... vel ut verius dicam exiliores’). Blank: 2v, 116, 121v.

Bibl. Kristeller 1963–1992, I, 403; M. Fossier, *La bibliothèque Farnèse. Étude des manuscrits latins et en langue vernaculaire*, Roma, 1982, 365; Rinaldi 2002, 110 (no. 2).

3r–115v ‘Ioannis Ioviani Pontani liber primus commentationum in centum sententiis Ptholomei ad ill<ustre>m principem Federicum ducem Urbini foeliciter incipit. Tametsi publicarum rerum administratio, bellique gerendi cura deterrere me iure possent, Federice dux fortissime... (4r) De mathematici officio et quod est [title in upper margin]. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronuntiet... Nec medici, nec morales (!) philosophi sola est cognitio, sed quaedam etiam operatio — tum stellarum radii vel trahentes eas, vel impellentes pro qualitate aspectus et virium efficatia. Τέλος.’
= **Giovanni Pontano**, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16). Marginal notes and corrections by the scribe.

Naples, Biblioteca Nazionale, VIII D 2

s. XV^{ex} (1476 for f. 2–43, see colophon). **Or.:** copied by a ‘Macteus’ (see colophon).

Paper, 54 f., a single hand.

Astrology and medicine: **Ptolemaica** (2r–43r); ‘Sperma hominis quod descendit ex omni corporis humore...’ (44r–48v); ‘Quatuor autem sunt elementa ac tempora, mutationes quoque, que fiunt secundum calculum et rationem signorum et planetarum. Temporum quidem aliud calidum et siccum ut estas — Explicit liber microtegy’ (48v–52v); sphere of Apuleius/Pythagoras (52v). Blank: 1 (except note in red by the scribe f. 1r: ‘Incipit liber quadrip<ar>titum Ptholomeus (!)’), 43v, 53–54.

Bibl. Kristeller 1963–1992, VI, 113.

2r–43r ‘In nomine domini mericordis et pii, incipit liber tractatuum Ptolomey Alfaudi in scientia iudiciorum astrorum. Tractatus primus est in quo sunt 24^{or} capitula. Capitulum primum in collactione (!) intellectus scientie iudiciorum astrorum. Ptolomeus dixit: <R>erum, Yesure, in quibus est pronosticabilis scientia stellarum perfectio magnas et precipuas duas esse deprendimus — hoc in loco huic libro Deo volente finem inponere non incongruum existimamus. Expliciunt libri quatuor Ptolomey in iudicandi discretione per stellas de futuris in hoc mundo constitutionis et destructionis contingentibus, Deo gratias. Et perfecta est eius translatio de Arabico in Latinum a Tiburtino Platone, ... (?) Deus, die Veneris, hora tertia, 20^a die mensis Octobris, anno domini 1138, 15 die mensis Saphar, anno Arabum DXXXIII, in civitate Barchinona. Et Deus nos custodiat et actus nostros dirigat. Amen. Macteus hunc librum scripsit anno domini 1476 de mense Iunii. Deo gratias. Amen.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 2r–13r; II, 13r–22v; III, 22v–35v; IV, 35v–43r. No glosses.

Naples, Biblioteca Nazionale, VIII D 4

s. XV (14th c. acc. Lemay). **Or.:** Naples (cf. f. 51r: ‘Expliciunt Christi au<xi>lio Flores Albumasar correpte in civitate Neapolis’).

Paper, 54 f., a single hand.

Astrology: Table of *verba* of the *Centiloquium* (1r–2v); **Ptolemaica** (3r–30v); Albumasar, *Flores* (31r–51r). Blank: 51v–54v.

Bibl. Kristeller 1963–1992, VI, 113; Lemay 1999, I, 216.

3r–30v ‘Incipiunt fructus Ptolomei liber, scilicet quem Grecorum quidam centum verba appellant, Hugonis Sanctelliensis translatus. Prologus eiusdem ad Michaellem Tirassonem antistitem. <D>e hiis que ad iudiciorum veritatem attinent cum in illis totus astronomie consistat... (3v) Verbum primum.

<A>strorum sciencia de te et de illis. Hoc in sermone de te et de illis videtur velle Ptholomeus duplicem esse astrorum scientiam... (4r) Deinceps quoque ad significationem stellarum signorum — librorum numerus quam sensus avida manu subtrahenda. Explicit liber centiloqui (!) Ptholomey. Deo gratias.’
 = **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Hugo Sanctelliensis (C.3.1.2).** No glosses.

New Haven, Yale University – Beinecke Rare Book and Manuscript Library, Beinecke 1059

s. XIV. **Or.:** northern Italy.

Paper, 156 f., a single hand.

A collection of over 20 texts, poems and letters dealing with various non-scientific subjects, including a section on astral magic (f. 141r–148r) made of three texts: Hermes/Enoch, *Liber imaginum signorum*, attr. Ptolemy ‘Liber de proprietatibus signorum secundum Tholomeum’ (141r–143r, f. 143v is blank); **Ptolemaica (144r–145r)**; and Thebit Bencora, *De imaginibus* (145r–148r). This section is preceded by the copy of several letters (135r–140v), including one addressed by Emperor Henry VII to the citizens of Bologna in 1311 (138r–138v), and followed by Petrarch’s *Historia Griseldis* (148v–154v).

Bibl. ---

144r–145r ‘Incipit liber Thebit Benchorat de quinque ymaginibus et sunt generales. Dixit Aburabem Bemeliç quia omnes orientales operabantur per has ymagines — in eo quod vermes non comedant si in orto fuerit plantata y<mago>.’
 = **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14).** No glosses.

New Haven, Yale University – Beinecke Rare Book and Manuscript Library, Beinecke 1150

s. XV^{ex}. **Or.:** Italy.

Paper, 8 f., a single hand.

Computus and astronomy: *kalendarium* ‘Descriptio subsequenti kalendarii. Ad huius infra scripte tabule sive kalendarii indagationem...’ (1r–7v); **Ptolemaica (8r–8v).**

Bibl. ---

8r–8v ‘Vita Ptholomei Pheludiani mathematici. Quidam princeps nomine Albuguaf in libro suo quem scientiarum electionem et verborum nominavit — considerantibus picturas, que cum a longe videntur placent, propinque vero non dulcescunt.’
 = **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2).** Preface only. No glosses.

New Haven, Yale University – Beinecke Rare Book and Manuscript Library, Mellon 25

s. XV^{ex}–XVIⁱⁿ (after 1493). **Or.:** northern France or Burgundy. **Prov.:** Thomas Phillipps (no. 1037); Upperville, Library of Paul Mellon (no. 40); acquired by Yale University in 1965.

Parchment, 242 f. numbered I–XCX and CLI–CCl, a single very neat hand, deluxe MS richly decorated at the beginning of each section.

Astrology and astronomy: John of Saxony, comm. on Alcabitus's *Introductorius*, 'correctum per artium et medicine doctorem dominum Bartholomeum de Alten de Nusia' (1ra–75va); **Ptolemaica** (77ra–99ra); Hermes, *Centiloquium* (99va–102rb); Hermes, *Liber de stellis beibeniis* (102rb–104rb); Bethen, *Centiloquium* (104va–106vb); Bethen, *De horis planetarum* (107ra–107vb); *Capitula Almansoris* (108ra–112rb); Zael, *Liber iudiciorum* (113ra–145vb, *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*); Johannes Angelus, *Astrolabium planum* (147r–240v). Blank: 76, 112v, 146, 190, 241–242. F. 77–145, including the Ptolemaic section, are identical to and were in all likelihood copied on ed. Venice, Bonetus Locatellus, 1493, f. 107r–138r. F. 147–240 were copied on ed. Venice, Erhardus Ratdolt, 1488.

Bibl. C. U. Faye, W. H. Bond, *Supplement to the Census of Medieval and Renaissance Manuscripts in the United States and Canada*, New York, 1962, 530 (Upperville, Mellon 40); L. C. Witten, R. Pachella, *Alchemy and the Occult. A Catalogue of Books and Manuscripts from the Collection of Paul and Mary Mellon Given to Yale University Library*, III: *Manuscripts 1225–1671*, New Haven, 1977, 163–71; Kristeller 1963–1992, V, 290.

77ra–99ra 'Centiloquium Ptholomei. Incipit liber centum verborum Ptholomei cum commento Haly. Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Verbum primum in cognitione eorum que verum iudicium perhibent. Scientia stellarum ex te et ex illis est... Expositio Haly super primo verbo. Quod dixit Ptho<lomeus>, ex te et illis, significat quod qui res futuras — Et ego Deum precor ut te diligat, quoniam perfecta est huius libri translatio 17 die mensis Marcii, 12 die mensis Gumedi secundi, anno Arabum 530. Liber Ptholomei quatuor tractatum cum Centiloquio eiusdem et commento Haly feliciter finit.'

= Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1), with v. 1 also given in the 'Mundanorum' version (C.3.1.3) and in Adelard of Bath's translation (B.1.1) (= 'threefold' version), under the rubric 'Additio'. No glosses.

New York, Columbia University – Rare Book and Manuscript Library, Plimpton 202

s. XVIⁱⁿ. **Or.:** University of Cracow. **Prov.:** George A. Plimpton (ex-libris, inner front cover).

Paper, 64 f., two hands (f. 1–48 and 49–64).

Astrology: notes 'Pro diffinitionem astrologie...' (1r-1v) and 'De inventoribus astronomie et astrologie...' (1v); **Ptolemaica** (2r-48v); text on nativities 'Forma datur propter merita nature postquam de statura corporis ac eius complexione tractamus nunc de moribus nati et qualitate animi...' (49r-64v). This text is also found in MS Cracow, BJ, 2620, s. XVI, pp. 145 and 164-76 (cf. Rosińska 1984, no. 1812).

Bibl. De Ricci 1935-1937, II, 1790; S. Ives, 'Corrigenda and Addenda to the Descriptions of the Plimpton Manuscripts as Recorded in the De Ricci Census', *Speculum* 17 (1942), 33-49; 43; Kristeller 1963-1992, V, 309.

2r-48v '[TEXT] <R>es, o Mizori, quibus perficiuntur prenosticationes accepte de astronomia maiores et nobiliores sunt due. Una quarum est qui (!) debet in ordinacione et virtute preponi et est hec ars qua duorum luminarium et quinque planetarum figure sciuntur secundum motum suum... [COMM.] Iste liber totalis dividitur in quatuor partes. In prima Ptholomeus compilavit regulas generales — si ille natus erit Parsia et generaliter dico quod primo debemus res accipere ultimas (?) in quanto...'
 = **Commentum Cracoviense in Quadripartitum a. 1505-1507** (C.2.13). Book I, 2r-15v; II, 16r-31r; III, 31v-41r; IV, 41v-48v. The text breaks off towards the end of ch. IV.9, due to missing folia. Substantial glosses throughout, which form the body of the commentary. Many of these glosses give the opinion of other authors, mainly 'Hali', but also Albumasar, Leopold of Austria, John of Eschenden ('autor summe Anglicane'), Hippocrates, Thebit, Alfraganus etc.

Nürnberg, Germanisches Nationalmuseum, 42296

s. XV¹ (in or after 1433, see f. 17r-17v). **Or.:** f. 1-10 copied by a student of the University of Vienna (cf. f. 10r).

Paper, 18 f., two hands (f. 1-10 and 11-17).

Computus and astrology, partly in German: John of Gmunden, *Kalendarium* 1421-1439 (1r-10r); **Ptolemaica** (10va-13va); astrology 'Ex istis XII signis ut communis astronomorum (!) auctoritas testatur...' (13va-13vb); 'Sequitur expositio signorum Pariensis. Quicumque cursum Lune desiderat recte scire, sciatur quomodo Sol...' (13vb-15rb); *De complexionibus hominum*, in German (15rb-16vb); table of eclipses 1433-1462 (17r-17v). Blank: 18.

Bibl. *Die Handschriften des Germanischen Nationalmuseums Nürnberg*, II: H. Hilg, *Die lateinischen mittelalterlichen Handschriften*, 2: Hs 22922-198390, Wiesbaden, 1986, 85-87.

10va-13va 'Aries: Aries habet capud et faciem, pupillam, oculos et intestina... Cum Luna fuerit in Ariete, signo orientali, calido et sicco... Natus sub Ariete a medio Martii usque ad medium Aprilis erit magne industrie, nec dives nec multum pauper — dolorem patietur, vivet annis LXXVI^o secundum naturam.'
 = **Pseudo-Ptolemy, De nativitatibus hominum (B.11)**, without the preface and with added material. No glosses.

Nürnberg, Germanisches Nationalmuseum, 42555

s. XIII¹.

Parchment, 12 f., a single hand, decorated initials. This is a MS fragment damaged in several parts and bound in disorder (folia to be read in the following order: f. 3, 1, 4, 2 and 5–12, with one folio missing between 5 and 6).

Ptolemaica (single text).

Bibl. ---

- (1r–12v) ‘(3r) Tabu<la mediorum motuum quinque stellarum> longitudinis et diversitatis. Motus Satu<rni in annis coniunctis longitudinis et diversitatis>... (1r) Tabula mediorum motuum quinque stellarum longitudinis et diversitatis. Motus Iovis in annis coniunctis longitudinis et diversitatis... (4r) ... <di>versitatem continet angulus BTH, hec namque iam precessit declaratio erit angulus BTH 3 partes secundum quantitatem — una duarum linearum que subtenduntur eis, erit 100 partes et 4 minuta secundum...’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, fragments IX.4 (three tables for Saturn, three tables for Jupiter and the first table for Mars), 3r–3v and 1r–1v; IX.9–XI.5, 4r–4v, 2r–2v and 5r–12v (with most of X.5 gone due to the missing folio). Marginal corrections by the scribe f. 4r–4v and 11r.

Nürnberg, Stadtbibliothek, Cent. III 25

s. XV² (c. 1460). **Or.:** copied by Regiomontanus in Vienna. **Prov.:** Bernhard Walther; Nürnberg, Ratsbibliothek.

Paper, VI + 132 f., a single hand (Regiomontanus).

Ptolemaica (two texts). Blank: Ir–VIv (except short historical notes f. Ir), 93r–95v, 131r–131v.

Bibl. Kristeller 1963–1992, III, 664–65; Kunitzsch 1986–1991, II, 15–16; Zinner 1990, 206 (no. 35); Neske 1997, 23–24; Georges (forthcoming).

- 1r–92v ‘<Q>uidam princeps nomine Albugaue in libro suo quem scienciarum electionem et verborum nominavit... onum scire fuit quod sapientibus non deviantibus visum est — et abbreviationem, arogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic in finem libro. Expleta est dictio tredecima libri Ptolomei et cum ea completur liber *Almagesti* de disciplinalibus.’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1r; I, 1r–8r; II, 8r–18v; III, 18v–23v; IV, 23v–32r; V, 32r–40r; VI, 40r–48v; VII, 48v–55v; VIII, 55v–61v; IX, 61v–70r; X, 70r–73v; XI, 73v–81r; XII, 81r–86r; XIII, 86r–92v. Glosses by Regiomontanus.
- 96r–130v ‘Verba Gebri filii Affla Hispalensis. Scientia species habet quarum melior — sunt digniores ut evanescant et destruantur. Completa est declaratio eius.

Explicit tractatus nonus et ultimus huius libri. Hunc librum transtulit in Toletum magister Girardus Cremonensis de Arabico in Latinum.'

= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 96r–96v; I, 96v–100r; II, 100r–104v; III, 104v–106r; IV, 106v–110r; V, 110r–115v; VI, 115v–120r; VII, 120v–125v; VIII, 125v–127v; IX, 127v–130v. Short marginal notes by Regiomontanus, one more substantial note f. 122r.

Nürnberg, Stadtbibliothek, Cent. V 62

s. XV² (c. 1460). **Or.:** probably Vienna. **Prov.:** Regiomontanus, who annotated the MS; Nürnberg, Ratsbibliothek.

Paper, 263 f., a single neat hand.

Ptolemaica (single text). Blank: 1–5, 261v–263v.

Bibl. Kristeller 1963–1992, III, 663; Monfasani 1984, 37; Zinner 1990, 206–07 (no. 37); Neske 1997, 98–99.

6r–261r 'Magne compositionis Claudii Ptolemei libri a Georgio Trapezuntio traducti incipiunt feliciter. Prefatio autoris. Capitulum primum. <P>eroptime mihi videtur, o Syre, qui bene phylosophati sunt, speculativam phylosophie partem ab activa separasse. Nam etsi active accadat parti — idoneum hic modum ac finem hec est compositio consecuta.'

= **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**. Book I, 6r–22v; II, 22v–49r; III, 49r–65r; IV, 65r–85r; V, 85r–109r; VI, 109r–132v; VII, 133r–149r; VIII, 149r–165v; IX, 165v–187r; X, 187r–202v; XI, 202v–222v; XII, 222v–239v; XIII, 240r–261r. Glosses by the scribe and by Regiomontanus. Marginal note in Greek f. 28v.

Nürnberg, Stadtbibliothek, Cent. V 85

s. XV² (before c. 1465). **Or.:** Italy. **Prov.:** Regiomontanus, who acquired the MS in Rome about 1465, glossed it and added notes on f. 78v; Bernhard Walther; Nürnberg, Ratsbibliothek. The MS was also apparently used by Johannes Schöner, who inserted Regiomontanus's notes on dignities and debilities (f. 78v) into his *Opusculum astrologicum* (ed. Nürnberg, Johannes Petreius, 1539, II.38, sig. [H₄]v).

Paper, 78 f., a single neat hand, except for glosses and additions by Regiomontanus.

Astrology: Leopold of Austria, *De astrorum scientia* (1r–45v); **Ptolemaica** (49r–78r); notes added by Regiomontanus: list of dignities and debilities according to Antonius de Monte Ulmi (78v) and distribution of Italian cities in the twelve zodiacal signs according to Franciscus de Esculo (78v). Blank: 46r–48v.

Bibl. Kristeller 1963–1992, III, 666; Zinner 1990, 221 (no. 61); Maruska 1993, 414; Neske 1997, 110–11.

- 49r–78r ‘Rerum, Yesure, in quibus est pronosticabilis sciencie stellarum profectio magnas et precipuas esse deprehendimus — hoc in loco huic libro finem imponere non incongruum existimamus.’
 = **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 49r–56r; II, 56v–62v; III, 62v–71v; IV, 71v–78r. Substantial glosses by Regiomontanus throughout, many of which borrowed from ‘Hali’, i.e. Haly Abenrudian.

Nürnberg, Stadtbibliothek, Cent. VI 12

s. XV² (c. 1459). **Or.:** copied by Regiomontanus in Vienna. **Prov.:** Bernhard Walther; Nürnberg, Ratsbibliothek.

Paper, VIII + 120 f., a single hand (Regiomontanus).

Astronomy: ***Ptolemaica* (1r–66v)**; Pseudo-Thebit Bencora, *De motu octave spere*, revised version (68r–69v); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (73r–98v). Blank: I–VIII, 67r–67v, 70r–72v, 99r–120v.

Bibl. Zinner 1990, 210 (no. 42); Neske 1997, 164–65; Zepeda 2018, 58.

- 1r–66v ‘Omnium recte philosophantium non solum verisimilibus et credibilibus — tenebrarum sic se habent etc. Laus Deo. Qui mihi favisti ceptis imponere finem. Laus et honor tibi sint astrorum eterne revolutor.’
 = ***Almagesti minor* (C.1.4)**. Glosses by Regiomontanus.

Nürnberg, Stadtbibliothek, Cent. VI 22

s. XIV¹ (after 1344 for f. 11r–12r). **Or.:** Paris? (cf. f. 11r–12r). **Prov.:** Regiomontanus (?); Bernhard Walther; Nürnberg, Ratsbibliothek.

Parchment, 190 f., several neat hands (1r–8v, 11r–12r, 13r–179ra, 179rb–190rb, 190rb, 190va).

Astrology, astronomy and medicine: table of contents of f. 13–186 (1ra); incomplete chapter index of an unidentified astrological text ‘Prima par de virtutibus essencialibus...’ (1va–1vb); star catalogue for 1300 (2r–8v); ‘Quoniam electiones laudabiles sunt salubres... Explicit liber de electionibus medicine editus Parisius anno domini 1344’ (11ra–12ra); ***Ptolemaica* (13ra–155vb and 156ra–172rb)**; Hermes, *Centiloquium* (172rb–174rb); *Capitula Almansoris* (174rb–177ra); ‘Si in principio egritudinis in qua se ponit homo...’ (177rb–178rb); ‘De ascensionibus cuiuslibet signi per umbram Arietis facta cum divisione per 60. Cum ergo ascensiones cuiuslibet signi vel gradus volueris invenire...’ (178rb–178va); Prophatius Judeus, *Quadrans novus* (178va–179ra); ‘De latitudinibus planetarum trium superiorum, id est de distantia eorum a via Solis. Si latitudines 3 superiorum planetarum invenire volueris...’ (179rb); ‘De significatione Saturni et Martis in triplicationibus. Quandocumque Saturnus fuerit in directione Arietis...’ (179va–180va); ‘De 4 temporibus anni et de mutatione aeris. Hec scientur ex gradu coniunctionis et oppositionis ante introitum Solis in Arietem...’ (180vb–181ra); ‘De humiditate et siccitate tonitruis et ventis. Generationem pluviarum tonitruorum, fulgurum et

ventorum...' (181ra–181rb); 'Item Aries, Leo, Sagittarius insculpti valent contra ydropisim...' (181va–181vb); 'De egritudinibus et eius (!) causis. Nota de egritudinibus et eius (!) causis. Considera primo dominum ascendentis...' (182ra–183ra); **Ptolemaica (183ra–186va)**; Johannes de Sancto Paulo, *Flores dietarum* (186va–190rb); geomancy 'Quidam interrogaverit de statu suo...' (190rb); verses (190va). Blank: 9–10, 12v.

Bibl. Kristeller 1963–1992, III, 664; Zinner 1990, 251–52 (no. 281); Neske 1997, 177–80.

13ra–155vb 'Incipit pars prima libri Quadripartiti Ptolomei in sciencia astronomie. Generaliter demonstrabimus qua maxime poterimus attingere pronosticationes stellarum — (151rb) posuit in hoc libro sunt regule et radices quibus ars ista tota componitur. (151va) Volo in hoc tibi dare exemplum trium nativitatum. Intendas quidquid locuti sumus in eis. Prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Amen. Explicit Quadripartitum Pto<lome>i. In prima parte docet omnes res artis — In quarta id quod pertinet ad accidentia hominis extra se.'

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei (C.2.2)***, opening in I.3. I, 13ra–40va; II, 40va–75ra; III, 75ra–120va; IV, 120va–151rb; Haly's appendix, 151va–155vb. A few short marginal notes by the scribe.

156ra–172rb 'Incipit Centiloquium Ptholomei. Mundanorum ad hoc vel ad illud mutatio corporum celestium... Scientia namque astrorum est ex te et illis. Et non oportet peritum illorum iudicare secundum formam effectuum particularium... Scientia astrorum est ex te et illis. Astrologus non debet dicere rem specialiter sed universaliter — (171vb) et quanto melius potuimus exposuimus. Pto<lome>us in hoc loco tricas et tricarum nomina posuit... Stelleque cum caudis sunt — regibus et divitibus apparebit. Explicit.'

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium***, 'Mundanorum' version (C.3.1.3). The text ends with Pseudo-Ptolemy's *De cometis* (B.4) on f. 171vb–172rb (see below). No glosses.

171vb–172rb 'Pto<lome>us in hoc loco tricas et tricarum nomina posuit... Stelleque cum caudis sunt — regibus et divitibus apparebit.'

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.

183ra–186va 'De iudiciis parcium in domibus. Pars fortune et eius dominus corpus et que ad corpus attinent — aut eius domini hiis duodecim mensibus imitatur.'

= **Pseudo-Ptolemy, *Liber de iudiciis partium* (B.8)**. No glosses.

Nürnberg, Stadtbibliothek, Solg. Ms. 31.4^o

s. XV^{ex} (f. 232r: 'Finit foeliciter anno 1478 ante Iacobi proxima die'). **Or.:** Germany. **Prov.:** Regiomontanus (?); Bernhard Walther.

Paper, 334 f., several similar hands.

Astrology: table of contents, early modern (1r); **Ptolemaica** (11r–39v); ‘Quandocumque Saturnus fuerit in directo Arietis aut triplicitatis eius...’ (39v–41v); **Ptolemaica** (47r–131r); Alcabitus, *Introductorius* (133r–157v); Albumasar (?), *De significationibus planetarum in hora revolutionis anni* (158r–180r); Bartholomew of Parma, *Tractatus novus de significatione quatuor planetarum superiorum* (180v–187r); Pseudo-Aristotle, *Iudicia*, Book II (187v–198r); Bartholomew of Parma, *Libellus de electionibus horarum et ascendentium* (198v–208r); ‘Si tu vix ex ingenio doctrine cognoscere quid homo habeat private in manu quando venit ad te causa loquendi...’ (208v–232r); Albohali, *De nativitatibus*, tr. Plato of Tivoli (241r–265r); Albumasar, *De revolutionibus nativitatum* (265v–319r); ‘Secundus canon. Mars in signis aereis in vere et autumno significat mediocritatem temporis...’ (325r–331r, the first canon is missing); ‘De pluviis futuris et determinatis ad diem. Volens itaque scire diem pluvie...’ (331v); ‘De dispositione Saturni quando coniungitur Lune utrum dicatur bene vel male disposita...’ (331v–334r); horoscope for 1432, in German (334v). Blank: 1v–10, 42–46, 131v–132v, 232v–240, 319v–324.

Bibl. Kristeller 1963–1992, III, 674; Zinner 1990, 252 (no. 290); Neske 1997, 198–200.

- 11r–38v ‘Ptholomei centum fructus. Mundanorum ad hoc vel ad illud mutatio corporum celestium... Scientia namque astrorum est ex te et ex illis. Non oportet peritum illum iudicare secundum formam effectuum particularium... Scientia astrorum est ex te et illis. Astrologus non debet dicere rem specialiter sed universaliter — et quanto melius potuimus exposuimus.’
= **Abuiafar Hamet filius Joseph**, *(Commentum in Centiloquium)*, ‘**Mundanorum**’ version (C.3.1.3). *Verba* are wrongly numbered in the margin. No glosses.
- 38v–39v ‘Ptho<lom>eus virtutes (?) et cometarum nomina posuit... Stelleque cum caudis sunt — regibus et divitibus apparebit.’
= **Pseudo-Ptolemy**, *De cometis* (B.4). No glosses.
- 47r–131r ‘Ptholomeus Pheludianus in quatuor partibus. Res, Miseri, quibus perficiuntur pronosticationes acceptae de astronomia maiores et nobiliores sunt due. Una quarum est que debet in ordine et virtute preponi et est hec ars qua duorum luminarium et quinque planetarum figure sciuntur secundum motum suum — Et postquam ita in modo universali perfecimus iudicium nativitatum finem in hoc loco huic libro inponere conveniens estimamus. Finiunt 100 fructus Ptholomei.’
= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2), without the translator’s preface and without Haly’s preface and commentary. I, 47r–68r; II, 68r–85r; III, 85r–115r; IV, 115r–131r. Glosses, perhaps by the scribe f. 47r–52r and a few short marginal notes thereafter.

Oxford, All Souls College, 95

s. XIII^{ex} (a marginal note by the scribe on f. 27r provides calendar conversions for the year ‘1250 et 6 menses’, which led Crossley to conclude that this was the date of the MS, but

the same note appears in at least three other MSS of the *Almagest*, as Zepeda pointed out). **Or.:** northern ('probably French' acc. Watson, but Georges strongly argues that the scribe is English). **Prov.:** Oxford, All Souls College (ex-libris f. VIr, 2r, I^av), no later than c. 1440.

Parchment, VI + 120 + I^a f., a single neat hand, beautiful MS with richly decorated initials.

Ptolemaica (single text), except for added notes, including 'Cum volueris per illud instrumentum dirigere significatores (?) equatorii (?)...' (IVva–IVvb, with drawing of the instrument f. IVr).

Bibl. Coxe 1852, II, *Catalogus codicum MSS. Collegii Omnium Animarum*, 28; A. G. Watson, *A Descriptive Catalogue of the Medieval Manuscripts of All Souls College, Oxford*, Oxford, 1997, 195–96; J. N. Crossley, 'Ptolemy's *Almagest*: Its Dates and the Dating of Oxford, All Souls College, ms. 95', *La Trobe Journal* 81 (2008), 118–26; Zepeda 2020, 229; Georges (forthcoming).

1ra–120vb 'Almagesti Tholomei [title added in upper margin by later hand]. Quidam princeps nomine Albuguaf... [last letter, probably 'e', erased] in libro suo quem scienciarum electionem et verborum nominavit... (1va) Bonum fuit scire quod sapientibus non deviantibus visum est — abbreviacionem, aroganciam et collaudacionem, tunc iam sequitur et honestum est ut ponamus hic finem libri. Expleta est dictio tricesima (!) libri Almagesti et cum ea completur Ptholomei de disciplinalibus. Laus Deo. Amen.'

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1ra–1rb; I, 1rb–9va; II, 9va–19rb; III, 19rb–28ra; IV, 28ra–37va; V, 37va–51ra; VI, 51ra–62rb; VII, 62rb–66vb; VIII, 66vb–71rb; IX, 71rb–79vb; X, 79vb–89ra; XI, 89ra–100ra; XII, 100ra–109vb; XIII, 109vb–120vb. All tables, including the star catalogue, are missing. A few marginal notes by the scribe and by a later hand.

Oxford, Bodleian Library, 4^o D 21 Jur.

s. XVI.

Paper, 12 f., a single neat hand. This volume consists of a collection of early printed editions of various unrelated texts, including *Compotus magistri Aniani familiari commentario declaratus, una cum figuris et manibus suis in locis auspicatpesentio adiectis in quarum iuncturis quinque digitorum doctrina huius libri explanatur re centissimeque emendatus* (ed. Rouen, 1502), followed by 12 originally blank folia, on which a scribe copied the texts reported below.

Computus, arithmetic and astrology: 'Hic incipit compotus manualis. Filius esto Dei celum bonus...' (1r–2v); Alexander of Villedieu, *Carmen de algorismo* (3r–8r); 'Incipit tractatus de planetis et eorum virtute. Sciendum est quod si quis nascetur in aliqua hora diei in qua dominatur aliquis septem planetarum...' (8v–10v); **Ptolemaica** (11r–11v). Blank: 12.

Bibl. Madan/Craster 1922–1937, II.1, 537 (no. 2783ⁿ).

- 11r–11v 'De stellis caudatis secundum Ptholomeum. <P>tholomeus dixit quod stelle cum caudis sunt 9 — De septima. Argentum habet radium pulcherimum... in signo aquatico existente.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**, incomplete, two thirds of f. 11v left blank. No glosses.

Oxford, Bodleian Library, Ashmole 345

s. XIV. Or.: England.

Parchment, 80 f., three rather neat hands: f. 1–38, 39–69 and 70–80. The MS includes at the end a printed text (Raymundus Lullus's *Ars brevis*, ed. Lyon, 1514).

Astrology and divination: Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. Haly (1r–3v); **Ptolemaica** (3v–5r); 'Prognosticum Ypocratis quod dies mortis vel salutis ostendit. Saturni die qui in lectum...' (5r–6r); *Astronomia Ypocratis* (6r–12v); 'De triplici mense lunari. Ut dicit Galenus in tertio de criticis diebus Luna...' (12v–13v); 'Notandum quod Campanus capitulo 5 compoti sui potest diem universalem dividi in 4 quadras...' (13v–14v); Pseudo-Albertus Magnus, *Speculum astronomie* (14v–21r); 'De colore eclipsis solaris. Color eclipsis solaris solummodo color aeris est...' (21r); **Ptolemaica** (21r–22r); 'De vero motu planetarum per instrumentum. Fiat columpna et locetur in congrua basi...' (22r–23r); 'Quum domus questionis tenuerit duo signa forcius eorum oportet (?) primum et eius dominus...' (23r–23v); Robert Grosseteste (?), *De impressionibus aeris*, end only, attr. Campanus in the margin by another hand 'Cum autem dispositionem pronosticare volueris ad a... (?) certum terminum...' (23v–24r); 'Capitulum locorum expertorum in verbis sapientum. Saturnus cum fuerit in domo sua in nativitate diurna significabit quod natus erit amicus sapientum...' (25r–27v); Messahallah, *Liber interpretationum* (28r–31r); 'De sompniis. Cum enim aliquis in sompno (!) pluvias et mare et flumina...' (31r–31v); *Astronomia Ypocratis* (31v–37r); Haly Abenragel, *De iudiciis astrorum*, VII.100 (37r–38v); 'De electionibus per cursum Lune in diversis signis. Cum Luna fuerit in Ariete signo, firmo, orientali...' (39r–44v); *Proportiones competentes in astrorum industria*, ch. 16, and *In principio fecit Deus caelum et terram...*, chs 20–22 (45r–46r); Albumasar, *Flores de electionibus* (47r–63r), including extraneous material: a section adapted from the *Alchandreana* 'De inventionem 7 planetarum. Computatis annis ab inicio mundi...' (54v–55r) and three unfinished astronomical or astrological figures (55^{bis}r–55^{ter}r); 'Astronomia docet de magnitudine mobili, hoc est de motibus firmamenti et planetarum et de eorum effectibus...' (63r–63v); 'Spere sunt IX, sive celi et unum in terra...' (63r–63v); *In principio fecit Deus caelum et terram...*, ch. 24 (64r); *Sortes regis Amalrici*, preface (64r–64v); *Proportiones competentes in astrorum industria*, chs 8 and 50 (64v–66r); 'A Sole. Sol submite latens sero maculosus presagit tempus pluviosum...' (66r); 'De significationibus tonitru. Si vero tertia Luna tonitrua audieris bis eadem Luna tempestas...' (66v–67r, including *Proportiones competentes in astrorum industria*, ch. 47); *Proportiones competentes in astrorum industria*, 48 (67r–67v); 'Ventos quatuor cardinales decimus, quorum primus septemtrion...' (67v–68r); *Revelatio Esdrae* 'Kalendas Ianuarii si in dominica evenerit, yemem calidam et humidam...' (68r–68v); 'Quando A fuerit litera dominicalis, yemps calidus...' (68v–69r); 'Si festum nativitatis domini in die dominica evenerit, tunc erit yemps utilis...' (69r); 'Si in prima nocte ventus fuerit, ordinata moriuntur

in illo anno...' (69r–69v); Guillelmus Anglicus, *De urina non visa* (70r–74r); **Ptolemaica** (74r–76r); 'Epistola de discretione mortis. Aspice in occasionibus mortem inferentibus nato...' (76r–76v); **Ptolemaica** (76v–80r); 'Lania (?) pro calculo. In die et hora Solis, Sole existente in Leone...' (80r–80v). Blank: 24v, 46v, 55v, 55^{ter}v, 56r.

Bibl. Black 1845, 249–52; Zambelli/Caroti 1977, 159–62; Paravicini Bagliani 2001, 34–35; Juste 2007, 344–46; Moulinier-Brogi 2011, 225; M. Cesario, 'An English Source for A Latin Text? Wind Prognostication in Oxford, Bodleian, Hatton 115 and Ashmole 345', *Studies in Philology* 112 (2015), 213–33: 228–30; Zepeda 2018, 74.

- 3v–5r 'Responsum Tholomei ad sciendum utrum nativitas fuit masculina aut feminina. Dicit Tholomeus: Huius rei causa maxime proprie — et similiter sunt descensiones opposite hiis, ut patet in figuris.'
= **Responsum Tholomei ad sciendum utrum nativitas fuit masculina aut feminina** (C.2.5). No glosses. A couple of short marginal notes.
- 21r–22r 'De instrumento. <Q>ueritur primum due armille convenientis mesure — ubi diversitas aspectus non impedit vicinior est consideracio.'
= **Almagesti minor** (C.1.4), V.1, without the enunciation. No glosses.
- 74r–76r 'Propositio Tholomei de crisi. Albaharim sane et certe sunt hore in quibus declarantur mutationes membrorum (!)... Expositio. Ptholomeus docuit nos in hoc verbo causas dierum determinabilium... (74v) Sequitur figura Ptholomei quam Haly commentator suus describit sic. Quando et qualiter morbi acuti habere debent suas determinationes sive ad bonum sive ad malum — aut Scorpione aut in Aquario, tunc illa egritudo est deterior egritudinum isti homini et est dignior ut eo moriatur quoniam est ex radice superiorum.'
= **Pseudo-Ptolemy, Propositio Tholomei de crisi** (C.3.3). No glosses.
- 76v–80r 'Cum itaque aliquis veniens querit qua morte debeat affici, diligenter dominum 8 aspice — in primo gradu Arietis evadet casum luminis. Explicit. Explicit.'
= **Pseudo-Ptolemy, Iudicia** (B.3), excerpts (selection of chapters). No glosses.

Oxford, Bodleian Library, Ashmole 346

s. XV^{ex}–XVIⁱⁿ. **Or.:** copied by Thomas Scalon (master of arts at King's College, Cambridge, by 1503), who left his name in several places in the volume, including f. 12v, 18r, 96r, 97v, 124r, 153v and 157v. The three texts of astral magic f. 113r–119r, including the Ptolemaic section, were copied from MS ⁷London, SAL, 39, f. 19r–24r.

Paper, 168 f., one main hand.

Astrology, medicine, astrological medicine and astral magic in a collection of texts, short pieces, notes and tables difficult to collate. More substantial or recognisable items include: *Regimen sanitatis* (2v–12v); *Ludus astronomorum* (21r–29r); Prophatius Judeus, *De aspectibus Lune ad alios planetas* (39v–42v); Alcabitius, *Introductorius* (68r–91v); Messahallah, *Liber interpretationum*, attr. Roger Bacon (94v–96r and 98r–99v); *Ars certissima de latrocinio inveniundo*. Si

interrogatus fueris de latrocinio utrum adipissetur eum interrogator vel non...' (100r–112v); Thebit Bencora, *De imaginibus* (113r–115v); Hermes/Enoch, *Liber imaginum signorum*, attr. Aristotle 'Incipiunt imagines astronomie secundum Aristotelem. Extracta ab Aristotile in De secretis secretorum de assumptione medicine et sanguinis minutione...' (116r–117v); **Ptolemaica (118r–119r)**; Messahallah, *Liber de intentionibus secretorum astronomie* (119r–124r); Gergis, *De significatione septem planetarum in domibus* (124v–128r); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (131r–141v); 'Iudicium infirmitatis secundum questionem almutem. Dux questionis secundum Arabes dicitur almutem...' (143r–153v).

Bibl. Black 1845, 252–57; F. Klaassen, *The Transformations of Magic. Illicit Learned Magic in the Later Middle Ages and Renaissance*, University Park, 2013, 48 and 50–51.

118r–119r 'Ptolomeus [title in upper margin]. <O>pus ymaginum secundum consilium Ptholomei est omnibus modis veracius in probatione quoniam eius effectus constitutus est super facies signorum et est certissimum quomodo Albumasar et Arabici et omnes orientales operabantur cum eo — mali vero sint cadentes ab ea et finitur. Expliciunt ymagines astronomice Ptolomei.'
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, with significant departure from the standard version (as in MS $\rightarrow$ London, SAL, 39, f. 19r–24r, the model of the present MS). A few marginal notes by the scribe.

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s. XIV and/or XV (for f. 1–178: f. 71–178 are dated to the middle of the 14th c. by Black and f. 71–75 to the 14th c. by Busard/Folkerts) and XV¹ (at least for f. 179–216). **Or.:** enigma in French f. 6r, but most hands appear to be English. **Prov.:** England.

Paper, 216 f., several hands, two of which copied the Ptolemaic section (f. 97r–97v and 98r–178v). The MS is organised in a chaotic manner. Several folia are missing after f. 178.

Computus, astrology, mathematics, optics and astronomy: Anianus, *Computus manualis* (1r–5v), with comm. (7r–26v); enigma in French (6r); Alcabitus, *Introductorius* (27r–52v); Hermes, *Centiloquium* (53r–57v); notes of geometry 'Omnis numeris cubicus multiplicatus in se...' (57v); list of 12 books translated by Gerard of Cremona (57v); *Capitula Almansoris* (58r–67r); Bethen, *Centiloquium* (67v–69v); notes on hyleg 'Secundum Alkabicium in Introductorio suo...' (70r); Euclid, *Elementa*, version 'Adelard II', excerpts from Book XI (71r–75v); Ametus filius Josephi [Aḥmad ibn Yūsuf], *Liber de proportionibus et proportionalitate* (76r–90v); Alkindi, *De aspectibus* (91r–96v); **Ptolemaica (97r–178v)**; Petrus de Monte Alcino, four prognostications for the years 1419, 1421, 1430 and 1448 (179r–216r). Blank: 6v, 70v, 191v, 216v (except for pen trials).

Bibl. Black 1845, 266–68; Björnbo/Vogl 1912, 137–38; Busard/Folkerts 1992, I, 69–70.

97r–178v 'Liber Ieberi continens tractatus novem [title in upper margin, hand of the scribe]. <S>ciencia species habet quarum melior post scienciam — in duobus nodis eccentrici. Invenit ergo stellam Veneris quando est in longitudine longiori orbis revolutionis elongatam...'

= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 97r–98r; I, 98r–107v; II, 107v–118r; III, 118r–122v; IV, 122v–132v; V, 132v–149r; VI, 149r–161v; VII, 161v–173r; VIII, 173r–177r; IX, 177r–178v. Abrupt end towards the beginning of Book IX due to missing folia. A few marginal notes by the scribe (as well as unrelated notes in English by a 16th–17th c. hand f. 156v, 159r and 165r). A number of diagrams have been supplied on eight small parchment leaves inserted by the scribe (= f. 97^{bis}, 110^{bis}, 114^{bis}, 118^{bis}, 164^{bis}, 169^{bis}, 173^{bis}, 174^{bis}).

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s. XV (f. 9–20; the other parts of the MS date from 12th or 13th c. to the 15th c.). **Or.:** England, perhaps Cambridge (f. 9–20). **Prov.:** the MS belonged to a 15th-c. astrologer, who copied f. 9–20 and annotated the MS throughout — this astrologer added the longitude and latitude of Cambridge f. 7v; ‘Iste liber constat Karolo Lacy phisico’ f. 189v; John Dee (cf. f. 4r: ‘Jo. Dee’).

Parchment, except f. 10–19, on paper, 190 f. Composite MS made of nine parts of various dates: I, f. 1–8 (fragments of several MSS inserted as fly-leaves in the 15th c.); II, f. 9–20 (15th c., a single hand); III, f. 21–76 (late 12th or 13th c., a single hand); IV, f. 77–84 (13th c., a single hand); V, f. 85–102 (13th c., a single hand, the same as in Part III, except for f. 87–88, added by contemporary hand); VI, f. 103–152 (13th c., a single hand); VII, f. 153–161 (early 14th c., a single hand); VIII, f. 162–182 (14th–15th c., several hands); IX, f. 183–191 (15th c., a single hand).

Astrology (f. 9–20): ‘De fugitivis servis et bestiis ubi sunt et qua causa s...’ (title in margin, end gone). Scias quod hec res aspicitur multis modis et a multis partibus...’ (9r–14r); Abraham Avenezra, *Tractatus particulares*, tr. Pietro d’Abano, Books II–III (14r–17v); **Ptolemaica (17v–20v)**. The other parts of the MS mainly contain astrological and astronomical texts: Terence, *Andria*, fragment (1v–3v); astronomical and astrological notes (3v); Euclid, *De visu*, beginning only (4r); astronomical and astrological notes (4v–8r); table of contents covering f. 9–189 (8v); Alcabitus, *Introductorius* (21ra–32va), followed by added notes (32va–32vb); Raymond of Marseille, *Liber iudiciorum* (33ra–46vb); Zael, *Liber iudiciorum* (47ra–76vb); *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*, beginning only due to missing folia); *Proportiones competentes in astrorum industria* (77r–83v); Hermann of Reichenau, *De mensura astrolabii* and *De utilitatibus astrolabii*, excerpts (83v–84v); Alkindi, *Iudicia astrorum*, tr. Robert of Ketton (85ra–101vb); Albumasar, *De revolutionibus annorum mundi* (103r–123v); Albumasar, *De revolutione annorum nativitatum* (123v–133v); Albohali, *De nativitatibus*, tr. Johannes Toletanus (134r–152v); Albumasar, *Flores* (152va–161vb); Prophatius Judeus, *Almanach* (162r–179r); ‘Et (?) australem polum et occidentalem ad suum...’ (180v–182v); nativity horoscope of Henry VI, with notes (182v); Thomas Aquinas, *De angelis* (183r–189r); scattered notes (189v–190r).

Bibl. Black 1845, 283–86; Juste 2007, 346–47.

17v–20v ‘Figura nativitatis Ptholomei et fuit natus in tertio climate... (18r) De statu patris. Aspxi primitus in esse patris in inveni Solem in undecima domo

in Aquario — Venus in Ariete 20.49, Mercurius in Piscis 24 et 17. Et hec exempla nativitatum sufficiunt ad presens.’

= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2).

Haly’s appendix only, in a shortened and somewhat revised version. The text opens with Haly’s horoscope, wrongly identified with Ptolemy’s nativity. No glosses.

Oxford, Bodleian Library, Ashmole 388

s. XVII¹ (1643, cf. colophon). **Or.:** England, the MS was copied on Thomas Allen’s original, then in possession of Sir Thomas Alisbury. **Prov.:** William Lilly, then Elias Ashmole in 1652. The origin and early history of the MS are detailed in a note added by Elias Ashmole on f. Iv: ‘Mr Allen gave the originall of this work to Sir Thomas Alisbury, from whence there was transcribed two coppies, the one Mr Huniades the chimist had, the other was given to Mr Lilly, which (?) he bestowed on me this 30th of May 1652. E. Ashmole.’

Paper, I + 117 f. (followed by about 50 blank and unnumbered folia), a single hand.

Ptolemaica (single text). Blank: Ir, 117v.

Bibl. Black 1845, 294.

1r–117r ‘Claudii Ptolomaei Pelusiensis De astrorum iudiciis aut, ut vulgo vocant, Quadripartitae constructionis liber secundus cum expositione Thomae Alleyn Angli, Oxoniensis. Caput primum. Hactenus quidem percurrimus ea quorum cognitionem prognosticationes et predicationes rerum particularium — honestis et pudicis verbis, tecte et occulte describit. Finis libri tertii. Maii 14^o 1643.’

= **Thomas Allen**, *Expositio in Claudii Ptolomaei Pelusiensis de astrorum iudiciis* (C.2.27). II, 1r–35v; III, 36r–117r. No glosses. A few short marginal notes by the scribe and by another hand.

Oxford, Bodleian Library, Ashmole 1522

s. XIV¹. **Or.:** England (?). **Prov.:** St Mary Church Merton near London until 1456, when the MS was given by Johannes Kyngestone, prior of Merton, to Johannes Gysborne, canon of Merton and student in Oxford (cf. f. 202v: ‘Liber ecclesie beate Marie de Merton iuxta London in dioc<ese> Wynton<iensi>, traditus domino Iohanni Gydsborne canonico eiusdem loci et scolari Oxon<iense> per magistrum Iohannem Kyngestone priorem de Merton. predicta, in sacra theologica professorem, anno domini millesimo CCCC^{mo} quinquagesimo sexto’).

Parchment, 203 f., a single neat hand, richly decorated initials.

Computus, arithmetic, astronomy and optics: Alexander of Villedieu, *Carmen de algorismo* (3r–7v); Petrus de Dacia, *Kalendarium* (9ra–16v); Sacrobosco, *Algorismus* (17ra–24vb); Sacrobosco, *De sphaera* (25ra–40rb); *Algorismus de fractionibus* ‘Cum multos de numeris

tractatus vidisses...' (40va–42vb); Sacrobosco, *Computus* (43ra–70ra); Robertus Anglicus, *Quadrans vetus* (70rb–78rb), with solar tables (78v–79v); Pseudo-Messahallah, *De compositione astrolabii* (80ra–101vb); *Theorica planetarum Gerardi* (102ra–110va); Pseudo-Thebit Bencora, *De motu octave spere* (110vb–114va); **Ptolemaica (114va–118va)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (118va–120rb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (120rb–122rb); Prophatius Judeus, *Quadrans novus* (122rb–132r); Johannes de Harelbeke, *Tractatus de spera solida* (132va–148ra); Johannes Peckham, *Perspectiva communis* (148ra–175vb); Franco de Polonia, *Tractatus de turketo* (176ra–178vb); 'Incipit tractatus chilindri quod horologium dicitur viatorum. Capitulum primum de formatione corporis chilindri... Investigantibus chilindri dispositionem...' (178vb–181vb); Peter Peregrinus of Maricourt, *De magnete* (181vb–187va); Alexander of Villedieu, *Massa compoti* (187va–199r); table of contents (199v). Blank: 1r–2v, 8 (except for added notes of computus f. 8v), 200–03 (except ex-libris f. 202v).

Bibl. Black 1845, 1425–1430; Pächt/Alexander 1966–1973, III, 55 (no. 596).

114va–118va 'Incipit liber Thebit Benchorat de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Chore de hiis que indigent expositione antequam legatur Almagesti.'
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Oxford, Bodleian Library, Ashmole 1796

s. XIV^{med} (probably in or shortly after 1349, see North, II, 314–15). **Or.:** St Albans Abbey (cf. f. 108v: 'Hic est liber Sancti Albani', in a contemporary hand which may well be that of the scribe; f. 22v: 'Liber subsacriste Sancti Albani, quondam fratris Iohannis Loukyn', same ex-libris repeated f. 119v, 130r and 160r; for the people involved, see North, II, 311–12). **Prov.:** 'Ex dono Thomae Barton de Middleton alias Milton iuxta Sittingbourne in com. Cant. Gen. [Milton, Kent]' (inner front cover, 17th c.).

Parchment, 201 f., one main hand, decorated initials.

Astronomy and astrology: Johannes de Harelbeke, *Tractatus de spera solida* (1r–15r); 'Incipit tractatus de mediis coniunctionibus et oppositionibus...' (15r–16v); Richard of Wallingford, *Exafrenon pronosticacionum temporis* (17r–30v); 'De naturalibus effectibus planetarum. Nota quod omnis planeta proicit radios sue virtutis sperice...' (30v–34r); 'Debilis stellarum est casus, exicium, exilium, applicatio ad corruptam...' (34r–36r); Roger of Hereford, *De quatuor partibus iudiciorum astronomie* (36r–38r); 'Ad prociendum eclipsim Solis. Primo accipiat vera hora coniunctionis...' (38r–40r); Pseudo-Messahallah, *De compositione astrolabii* (40v–55v); John Maudith (?), *Ars et operatio novi quadranti* (55v–76v); 'Generalis doctrina ad inveniendum quamlibet equacionem cuiuslibet argumenti. Quando oportet intrare bis in aliquam tabulam...' (76v–77r); Richard of Wallingford, *Tractatus horologii astronomici* (77r–83v), with tables (84r–90r); William Rede, Oxford tables (90v–111v, including canons f. 90v–94r); 'Ars componendi

tabulam diversitatis aspectus in quovis climate. Prima linea que est linea numeri continebit...' (112r–113v), with tables (114r–116v); 'Fiat triangulus rectangulus quod est triangulus ABC...' (116v–118r); Richard of Wallingford, *Tractatus Albionis* (118r–159r); Richard of Wallingford, *Tractatus rectanguli* (159v–165r); 'Cum habueris tabulam stellarum fixarum factam ad longitudinem...' (165v–166v); drawings of instruments (167r–167v); 'Pro compositione motus Solis in rotis...' (168r–171r); 'Memorandum quod in isto instrumento Sol movetur quolibet die 24 horas...' (171v–172r); 'De 564 actonis (!) semper unum facies momentum...' (172v); **Ptolemaica** (173r–175v); drawing of an instrument (176r); 'Memorandum quod si Sol in 32 diebus pertranseat 29 dentes de circulo...' (176v–178v); 'Proprietates signorum. Aries: Cave ab incisione in capite vel in facie...' (178v); astronomical figures (179r–179v); 'Cognito vero gradus telle in ecliptica et latitudinem...' (180r–180v); astronomical tables (181r–182v and 185r–186v, with intervening f. 183r–184v and 187r–188v containing unfinished drawings); 'Si habueris declinationem alicuius stelle a circulo...' (189r–189v); astronomical tables (190r–197r); notes and unfinished drawings and figures (197v–201v).

Bibl. Black 1845, 1505–1509; Pächt/Alexander 1966–1973, III, 67 (no. 752); North 1976, II, 310–15 and *passim*.

173r–175v 'Liber quem edidit Tebit filius Chore de hiis que indigent expositione antequam legatur ... [blank]. Equator diei est circulus maior qui describitur super duos polos orbis — opposicioni erunt sic retrogradi.'
 = **Thebit Bencora**, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Oxford, Bodleian Library, Auct. F.3.13

s. XIII². **Or.:** England, perhaps Oxford (Leonardi). The glossator of f. 201–218 noted the distance between Toledo and Oxford on f. 215r and added examples of calendar conversion and eclipse prediction for 1271–1272 or 'anno Arabum 670' on f. 201r, 205r and 217v; one of the glossators of f. 91–175 inserted two folia of smaller size containing chilindri tables for London and Paris (f. 141^{bisv} and 147^{bisr}). **Prov.:** John Alward, fellow of Exeter College, Oxford, and rector of the church in Stoke Bruerne (d. 1457), who bequeathed the MS to the monastery of Kenilworth (f. 224v: 'Istum librum legavit magister Iohannes Alward, quondam rector ecclesie parochialis de Stoke Bruerne, monasterio de Kelyngworth...'); further notes by several hands, apparently from the 15th c., include 'Solvi pro isto libro VII s. VI d.' (IIIr), 'Iohannes Lemygton. Canones astrologii' (225v, late 15th c.), 'Willelmus Capellanus. Ricardus Boteler. Sub tali signo * quod misistis sibi duo folia papyri extracta de libro predicto' (226r, late 15th c.).

Parchment, III + 226 f., MS made of five parts bound together at an early date, in any case by the 14th c. (I: f. 1–66, one neat hand, decorated initials f. 1–48, reserved initials f. 49–66; II: f. 67–90, one hand, with additions by two hands f. 104; III: f. 91–175, one main hand; IV: f. 176–200, two hands; V: f. 201–224, one main hand). Sections are missing after f. 90, between f. 175 and 176 (see below) and after f. 109.

Geometry, music, astronomy and astrology: table of contents, 14th c. (IIIv); Euclid, *Elementa*, version 'Adelard II' (1r–48v); **Ptolemaica** (49r–66v); Boethius, *De musica*, end gone (67r–90v);

canons of Toledan tables (91ra–103vb); added notes by two hands, including ‘Hec est figura de cordis et acubus...’ with diagram (104ra), lunar table (104ra), ‘Diligenti observatione est perpendendum stellam...’ (104rb–104va), Bernardus Silvestris, preface to the *Sortes regis Amalrici* ‘Materia huius libri est effectus...’ (104va–104vb) and onomancy ‘Ptholomeus, Aristotiles et Palpinion (?) superiorum corporum...’ (104vb); *Theorica planetarum Gerardi*, end gone (105ra–109vb); Robertus Anglicus, *Quadrans vetus*, beginning gone, illustrated copy (110ra–112v), followed by solar tables (113r–114v); Campanus of Novara, *Theorica planetarum* (115ra–142ra); chapters of astronomy and computus ‘Verum locum Solis et Lune, nec non et aspectus eorum...’ (142ra–144rb); Campanus of Novara, *De quadrante* (144rb–146ra); Berengarius, *De horologio viatorum* (146rb–147ra); ‘De compositione chilindri. Investigantibus chilindri compositionem, quod horologium viatoris...’ (147ra–148rb); Roger of Hereford, *De quatuor partibus iudiciorum astronomie* (148rb–151va); Alcabitus, *Introductorius* (152ra–166ra); Albumasar, *Flores* (166ra–175ra); Alfraganus, *De scientia astrorum*, tr. John of Seville (176r–192v); Martianus Capella, *De nuptiis Mercurii et Philologiae*, Book VIII (194r–200r); canons of Toledan tables (201r–219v); ‘In faciendo almenak sunt primo extrahendi...’ (219v–220v); Euclid, *Elementa*, tr. Adelard of Bath, excerpts from Book IV, added by a later hand (223r–224r). Blank: I–IIIr (except notes), 175v, 193, 200v, 205v, 208r–209r, 221–222 (except faint notes f. 222r–222v), 224v–226v (except notes f. 224v, 225v and 226r). According to the table of contents f. IIIv, the MS originally contained Theodosius’s *Spherica* between f. 175 and 176 (‘9. Item, liber de speris Theodosii’), which agrees with a note (15th c.?) on f. IIv and repeated f. 225v: ‘Summa foliorum istius libri 253 ultra cedulas, quia cedulae non computantur.’

Bibl. Madan/Craster 1922–1937, II.1, 245–46 (no. 2177); Leonardi 1960, 420–21 (no. 140); Benjamin/Toomer 1971, 59–60; Pächt/Alexander 1966–1973, III, 47 (nos 510 and 520); Busard/Folkerts 1992, I, 45–47; *CCBM*, I, 179–80; Lemay 1999, I, 254–55; Pedersen 2002, I, 139.

49r–66v ‘Dixit Ptholomeus: Iam scripsi tibi, Vusive (?), libros de hoc quod operantur stelle in hoc seculo... <S>cientia stellarum ex te et illis est... Expositio. Quid dixit Ptholomeus, ex te et ex illis est, significat quod qui res futuras precognoscere desiderant — et ego Deum deprecor ut te diligit. Perfecta est huius libri translatio Martii, 13 die mensis Gumedii secundi anno Harabum 230. Explicit.’

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**. Glosses by the scribe, including variants introduced by ‘In alio’, and occasional short glosses by a later hand.

Oxford, Bodleian Library, Auct. F.5.28

s. XIII¹ (for part I; part II dates from the end of the 13th c.). **Or.:** England. **Prov.:** the whole volume (two parts) was given by John Cobbledik (d. 1337) to Oriel College, Oxford, in 1337 (cf. note f. 226v: ‘Liber scolarium domus beate Marie Oxonie ... (?) per magistrum Iohannem Cobuldik anno domini M^oCCC^o tricesimo septimo precio XX solidorum et non accomodetur extra domum nisi consanguineis predicti magistri Iohannis sub rationali caucione’), where it remained at least until 1375 (Maddan/Craster); then the volume changed hands and appears,

among others, in Guildford (Surrey) in 1421 (cf. note f. 226v: ‘Caucio magistri Willelmi Bridby exposita ciste Gildford in festo sancti Barnabe anno domini M^oCCCC^oXXI^o pro viginti solidis’ and ‘Caucio magistri Willelmi ... yn 20^o die Octobris anno domini 1463 habens supplementum 2^o folio...’); ‘per magistrum Helayim de T<ri>kyngham’ (f. 145r, 15th c.); ‘Thomas Clerk’ (f. 95v and 113r, 16th c.); ‘Thomas Henshaw’ (inner back cover, 16th c.); John Dee c. 1556.

Parchment, XLI + 227 f. Composite MS made of two parts (I: f. I–XLI and 1–144, a single neat hand; II: f. 145–224).

Mathematics, astronomy and astrology (part I): Euclid, *Elementa*, version ‘Adelard II’ (IIr–XLIv and 1r–15r); rithmomachia ‘Ex numeris sese respicientibus proportione...’ (15v–16r); arithmetic ‘Si datus numerus in duas partes dividatur...’ (16v); Euclid, *De visu*, beginning missing (17r–24r); Euclid, *De speculis* (24r–29r); Theodosius, *Spherica*, tr. Gerard of Cemonia (29v–51v); Theodosius, *De habitationibus* (52r–54r); ‘Tres circulos in astrolapsu descriptos...’ (54v–55r); **Ptolemaica (55v–57v)**; Euclid, *Data* (58r–72r); Messahallah, *Liber interpretationum*, c. 7–12 (72v–73v); Euclid, *Elementa*, version ‘Adelard II’, addenda to VII.1 and X.105 (74r); Jordanus de Nemore, *De numeris datis* (74v–87r); **Ptolemaica (88r–96v and 96v–99r)**; Jordanus de Nemore, *De plana spera* (99v–101r); Archimedes, *De mensura circuli* (101v–102v); Ametus filius Josephi [Aḥmad ibn Yūsuf], *De arcubus similibus* (103v–104r); Zenodorus, *De isoperimetris* (105r–106v); Pseudo-Euclid, *De ponderoso et levi* (107r); *Liber de canonio* (107v–108v); *De ponderibus Archimedis* (108v–109r); fragment on the Roman balance ‘Queritur in longitudine...’ (109r); Jordanus de Nemore, *Elementa super demonstrationem ponderum* (109v–110v); Johannes de Tinemue, *De curvis superficiebus* (111r–116r); *De quadratura circuli per lunulas* (116r); Gerard of Brussels, *Liber de motu* (116v–125r); comm. on Jordanus de Nemore’s *Elementa super demonstrationem ponderum* (125v–128r); Jordanus de Nemore, *De ratione ponderis*, starting I.8 (128r–133r); geometry ‘Artis cuiuslibet consummatio...’ (133v–144v). Blank: 87v, 103r, 104v. Part II of the MS (f. 145–224) contains texts of theology, philosophy and medicine. F. 225–27 contain added notes, including a 15th-c. table of contents of both parts (225v) and a 13th-c. table of contents of part I (227r).

Bibl. Heiberg 1907, XIII; Madan/Craster 1922–1937, II.2, 706–08 (no. 3623); Hughes 1981, 30–32; Clagett 1964–1984, I, xx; Pächt/Alexander 1966–1973, III, 39 (no. 415); Roberts/Watson 1990, 113 (M13); Clagett 1964–1984, V, 59–60; Busard/Folkerts 1992, I, 64–66; d’Alverny 1994, 378–79; *CBM*, I, 181–82; *CML*, I, 34–36.

88r–96v ‘Secunda edicio Theodosii de plana spera. Subtilissimus liber geometricus.
and 55v–57v Planisphaerium Ptolomei [three titles added by three different hands in the upper margin]. <Q>uemadmodum Ptholomeus et ante eum nonnulli veterum auctoritatis viri antiquas seculi scribunt historias... (88v) <C>um sit possibile, Iesuri, et plurimumque naturam (!) ut in plano represententur circuli in speram corpoream incidentes — (95r) cum ipsis circulis tropicis et cum circulis meridianis signa distinguuntibus. Explicit secunda edicio Tholomei (*corr. in* Theodosii) de plana spera. <Q>uoslibet duos circulos equidistantes recto in spera corporea — (96v) in plano datum punctum in spera potentialiter ostendit. (55v) Sectio que non est de libro quam dixit Mesle<n> usque ad primam sectionem quam Ptholomeus. <I>am memoravit

Ptholomeus in hoc libro quomodo lineentur orizontes et equidistantes — (56r) Et secundum hoc fit artificium laminarum. Et hec capitula non pretermittat qui voluerit facere astrolabium, que compilavimus de figura sectionis. Tractatus de ortu signorum [title added in the margin, apparently by another hand]. <A>d scienciam extrahendi elevationes signorum in orbe recto — et quod provenerit est nadair gradus occasus. Intelligas. Explicit.’
 = **Ptolemy, *Planispherium*, tr. Hermann of Carinthia (A.6.1)**, Class III. Translator’s preface, 88r–88v; text, 88v–95r; *Propositiones planisperii*, 95r–96v; Maslama’s Extra Chapter, 55v–56r; Maslama’s Astrolabe Chapters, 56r–57v. Marginal notes by the scribe, including Maslama’s Notes.

96v–99r ‘<E>quator circuli diei est circulus maior qui describitur super duos polos orbis — propinqui oppositioni erunt retrogradi. Explicit.’
 = **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. A few short marginal notes by the scribe.

Oxford, Bodleian Library, Bodley 463

s. XIII^{ex} (Thomson; d’Alverny dates f. 1–138 to the first half of the 14th c. and f. 139–177 to the second half of the 13th c.; Pächt/Alexander date the whole MS to the second half of the 14th c.). **Or.:** Italy (Thomson: ‘two or more similar scribes, in Italian gothic rotunda bookhand’ and ‘Made and originally kept in north-western Italy’; southern hands acc. d’Alverny; Spanish acc. Maddan/Craster and Pächt/Alexander). **Prov.:** a 14th-c. note f. 178v reads (cf. Thomson): ‘Iste liber est domini Iohannis presbiteri Cathalani qui moratur cum domino Brancho de Spinea quem habet impignoratum frater Odoardus pro IV s. ... Ian. (?). Ubertus u... (?) istum librum a predicto presbitero Iohanne Cathalano ... (?) precio duorum florenorum eo pacto quod possit eum exigere ... (?) vult. Et ideo vult frater Ubertus quod quandocumque dedit vel miserit duos florenos auri quod liber iste reddatur sibi. In cuius rei signum scripturam hanc voluit conscribere sua manu’; Edmund Lacy, bishop of Exeter (1420–1455), bequeathed the MS to the Exeter cathedral (cf. f. 1r: ‘Hunc librum disposuerunt et dederunt executores testamenti recolende bone memorie domini Edmundi Lacy nuper dum vixit Exoniensis episcopi de bonis eiusdem Edmundi ecclesie cath. Exoniensi cathenandum ibidem in libraria remanserunt ibidem in eadem quamdiu duraverit. Orate pro eo’); presented to the Bodleian Library by the Dean and Chapter of Exeter in 1602.

Parchment, III + 179 f., MS made of two parts bound together in the 14th c.: I, f. 1–138 (two or several similar neat hands, decorated initials); II, f. 139–177 (a single hand). One folio is missing between current f. 77 and 78.

Astrology, astronomy and natural philosophy: table of contents of the whole MS, 14th c. (IIIv); Alcabitius, *Introductorius* (1ra–18vb); table: elections from the aspects of the Moon with the other planets (19ra); ‘Cum fuerit Luna in Capite vel in Cauda Draconis in uno signo, est dies cavenda in omnibus operibus...’ (19rb); ‘Et mos est phylosophorum in nativitate atque universali interrogatione...’ (19rb–20ra); Jafar, *Liber imbrium* (20ra–24ra); Hermann of Carinthia, *Liber imbrium*, first lines (24ra); **Ptolemaica** (24ra–26va); ‘Notandum quod magister

huius artis que est de XXVIII mansionibus Lune...' (26vb); 'Incipit liber de 28 mansionibus Lune. Noscas quod scientia huius providentie existit in 28 numero...' (27ra–27rb); *Sortes regis Amalrici* (27v–36rb); 'Incipit tabula ostendens in quo signo sit Luna omni die... Qui cursum Lune recte scire voluerit sciat primitus quod Sol per signa vadit...' (36va–38v); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (39ra–58va); **Ptolemaica (59ra–74vb)**; Thebit Bencora, *De imaginibus* (75ra–77va); **Ptolemaica (77va)**; Hermes, *De imaginibus et horis*, end gone (77va–77vb); Hermes/Toz Graecus, *De lapidibus Veneris*, beginning gone (78ra–78vb); *Problemata Aristotelis* (78vb–138ra); Avicenna, *De anima* (139ra–176ra); Pseudo-Avicenna, *Liber celi et mundi* (176rb–177rb); astronomical/astrological notes added by a 14th-c. Italian hand (179r); table of contents of the whole MS, 14th c. (179r). Blank: I–IIIr, 138v, 177v–178r, 179v.

Bibl. Madan/Craster 1922–1937, II.1, 374–75 (no. 2456); Pächt/Alexander 1966–1973, I, 68 (no. 883); d'Alverny 1994, 136–39; Lemay 1999, I, 255–56; *CMML*, I, 44–45; Bohak/Burnett 2021, 84–85.

24ra–26va 'Incipit liber Thebit filius Cheere de spera et de circulis. Equator diei <est> circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni Solis erunt retrogradi. Explicit liber Thebit Corehe.'
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

59ra–74vb 'Incipit Liber centiloquii Ptholomei. Dixit Ptholomeus: Iam scripsi tibi, Iesure, librum de hoc quod operantur stelle in hoc seculo... Verbum primum. Scientia stellarum ex te et illis est... Mundanorum mutatio ad hoc et ad illud corporum celestium... Expositio verbi primi Ptholomei. Expositio. Quod dixit Ptholomeus, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — quod ego malui exponere in hoc libro et credo quod ydoneum est suis rationibus et perfecta est eius expositio. Explicit Centiloquium Ptholomei expositum ab Eli.'
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, except for the end of the text (at least from the comm. on v. 97), given in the 'Iam premisi' version (C.3.1.4). Occasional short marginal notes by the scribe and by a later hand.

77va 'Instructio Ptholomei. Dixit Ptholomeus: Edidi hunc librum de ymaginibus super facies signorum — et impetrabis ex eo quod animus tuus desiderat.'
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, closing paragraph only. No glosses.

Oxford, Bodleian Library, Bodley 464

s. XIVⁱⁿ (probably before 1318, see especially Knorr, 278–79, and Barker-Benfield, 1175). **Or.:** most of the MS was copied by Michael of Northgate, monk at St Augustine of Canterbury (cf. inner front cover: 'Almanach Michaelis de Northgate'). **Prov.:** John Twyne (d. 1581) and his son Thomas Twyne who gave it to the Bodleian Library in 1612.

Parchment, III + 206 f., two neat hands: I [Michael of Northgate], f. I–III and 58–205; II, f. 1–57, decorated initials.

Astronomy, astrology and computus: table of contents (Ir); Pliny, *De presagiis temporum* (Iv–IIIr); table for computing the zodiacal position of the Moon (IIIv); Prophatius Judeus, *Almanach* (1ra–57v); Petrus de Dacia, *Kalendarium*, with canons attr. Roger Bacon ‘Canon super sequens kalendarium ad veram coniuncctionem Solis et Lune accipiendam compositum a fratre Rogero Bacoun. Kalendarium sequens extractum est a tabulis Tholetanis anno domini 1292...’ (58r–71r); Petrus de Dacia, lunar tables with canons and additional astrological material (71v–73v); circular diagram: 12 signs, domiciles, exaltations, decans and triplicities (74r); circular diagram: aspects, with note (74v); horoscopic diagram: meaning of the 12 houses, with note (75r); tables of Toulouse (75v–80r); Peter Peregrinus of Maricourt, *De magnete* (80v–84v); Campanus of Novara, *Theorica planetarum*, excerpt ‘Incipit compositio instrumenti Solis magistri Campani. Ad hoc autem ut in instrumento nostro sensibili ponantur...’ (85r–92r); **Ptolemaica (92v–95r)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (95r–96v); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (96v–97v); Alcabitius, *Introductorius* (98r–119v); Hermann of Carinthia, *Liber imbrum* (120r–122r); Robert Grosseteste (?), *De impressionibus aeris* (122v–125v); ‘Capitulum de natura aeris in singulis annis. Volens scire naturam aeris in singulis annis, considera coniuncctionem Solis et Lune...’ (126r–126v); ‘Iudicium particulare de mutatione aeris. Iudicium particulare de aeris mutatione in coniuncctione Solis et Lune, considera signum ascendens et eius naturam...’ (126v–127r); ‘De apertacione portarum. Apercio portarum dicitur dum coniungitur planeta inferior...’ (127r–127v); Sem filius Haym, *Capitulum in narratione Saturni quid accadat in mundo* (127v–128v); table (7 × 12) showing the parts of the body for each planet in each of the 12 signs (128v); tables for the 12 signs showing essential dignities and degrees, with text ‘Aries igneus, domus Martis, exaltacio Solis...’ (129r–131v); ‘De Ariete. Aries habet faciem et caput et pupillam oculi...’, incomplete (132r–133r); table: meaning of the 12 houses (133v); Pseudo-Messahallah, *De compositione astrolabii*, second part on uses (134r–139v); *Theorica planetarum Gerardi* (140r–147v); Pseudo-Thebit Bencora, *De motu octave spere* (147v–150v); Hermes, *Liber de sex rerum principiis* (151r–162r); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (162v–169v); horoscopes for each of the 360 degrees, all empty (170r–199v); Jafar, *Liber imbrum* (200r–204v); ‘Incipit compositio chilindri. Investigacionibus chilindri compositi, quod dicitur horologium viatorum...’ (204r–205v); Messahallah, *Liber interpretationum*, ch. 3, end gone (205v). F. 206 is torn.

Bibl. Madan/Craster 1922–1937, II.1, 375–76 (no. 2458); Pedersen 1983–1984, I, 257–58; Watson 1984, 17 (no. 90); A. G. Watson, ‘John Twyne of Canterbury (d. 1581) as a Collector of Medieval Manuscripts: a Preliminary Investigation’, *The Library*, 6th ser., 8 (1986), 133–51; 149, no. 22 (reprinted in A. G. Watson, *Medieval Manuscripts in Post-Medieval England*, Padstow, 2004, IV); W. R. Knorr, ‘Two Medieval Monks and Their Astronomy Books: MSS Bodley 464 and Rawlinson C. 117’, *The Bodleian Library Record* 14 (1991–1993), 269–84; Pedersen 2002, I, 140; Barker-Benfield 2008, II, 1173–1180 (BA I.1156).

- 92v–95r ‘Incipit liber Thebith de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — propinqui opposicioni erunt retrogradi. Expletus est liber Thebith filii Core de hiis que indigent expositione antequam legatur Almagesti.’
 = **Thebit Bencora**, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Oxford, Bodleian Library, Bodley 472

s. XV¹ (1437, cf. f. 20ra, 55rb and 102vb). **Or.:** Leuven (Louvain), copied by one Tristrandus (cf. colophon f. 20ra). **Prov.:** presented to the Bodleian Library by William Camden in 1601.

Paper, XXVII + 221 f., a single hand.

Astrology and astronomy: added astrological table, in Flemish (XXVIIr); table of contents (XXVIIv); **Ptolemaica** (1ra–20ra); John of Ligneres, *Canones primi mobilis* (20rb–26rb); ‘Si in quo gradu signi stella aliqua prenotata...’ (26rb–30rb); ‘Compositurus novum quadrantem accipe tabulam planam et similitudinem quarte partis circuli factam...’ (30va–35va); ‘Altitudine rei erecte in valle oculo...’ (35va–35vb); Cristannus de Prachaticz, *Compositio astrolabii* (36ra–41ra); Cristannus de Prachaticz, *Usus astrolabii* (41rb–47va); astronomical/astrological notes (47vb–49va); Sacrobosco, *De sphaera* (49ra–55rb); Alubater, *De nativitatibus* (55va–102vb); Hermes, *Liber de stellis beibeniis* (103ra–104vb); *Theorica planetarum* Gerardi (105r–114r); Robertus Anglicus, *Quadrans vetus* (115r–120v); Messahallah, *Epistola de rebus eclipsium* (121ra–122rb); astrometeorological anthology ‘Cum volueris segetum prenoscere...’ (122va–131ra); Leopold of Austria, *De astrorum scientia*, excerpt from Book V, on comets ‘Cometa est vapor terreus...’ (131ra–132rb); *Liber de significatione cometarum* (132rb–142ra); Leopold of Austria, *De astrorum scientia*, excerpt from Book VI (142ra–143rb); Abraham Avenezra, *Liber de nativitatibus* (144ra–155vb); Alcabitus, *Introductorius* (156ra–174rb); table of contents of an astrological text by Haly Abenragel, in Flemish (174va–174vb); John of Saxony, comm. on Alcabitus’s *Introductorius* (199ra–221va). Blank: I–XXVI, 114v, 143v, 175–198.

Bibl. Madan/Craster 1922–1937, II.1, 394–96 (no. 2492); Watson 1984, 17 (no. 94); Lemay 1999, I, 257.

- 1ra–20ra ‘Centiloquium Ptholomei. Dixit Ptholomeus: Iam scripsi tibi, Pesure (!), libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et illis est... Cum dixit Ptholomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — et ego precor Deum ut te dirigat. Perfecta est huius libri translatio tertio die mensis Martii, secundo die mensis Gumedii secundi anno Arabum 5302. Expliciunt centum verba Ptholomei. Scriptus et finitus Loven. per manus Tristrandi anno domini 1437, sexto die mensis Septembris, hora 9 post meridiem.’
 = **Abuifaf Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli** (C.3.1.1). No glosses.

Oxford, Bodleian Library, Bodley 491

s. XIV (after 1339, date of John of Murs's canons f. 32r–40v). **Or.:** England. **Prov.:** Thomas Allen (cf. f. 1r).

Parchment, V + 169 f., a single neat hand, reserved initials.

Arithmetic, astronomy and astrology: table of contents, late medieval (Vv); Sacrobosco, *Algorismus* (1r–8r); Sacrobosco, *De sphaera* (8v–22r); *Theorica planetarum Gerardi* (22v–31v); John of Murs, canons of Alfonsine tables 'Prima tabula docet differentiam unius ere super aliam...' (32r–40v); Alfonsine tables (41r–60r); canons of Toledan tables 'De declinacione Solis. Cum autem declinacionem Solis...' (60v); Toledan tables (61r–64v); Alcabitus, *Introductorius* (65r–96v); tables for the 12 signs showing essential dignities and degrees, with text 'Aries igneus, domus Martis, exaltacio Solis...' (97ra–99vb); 'Aries habet faciem et caput et pupillam oculi...', incomplete (100r–102r); horoscopic diagram showing the meaning of the 12 houses, with notes (102v); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (103r–104v); Pseudo-Thebit Bencora, *De motu octave spere* (105r–109r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportione terre* (109v–111v); **Ptolemaica (111v–116r)**; Petrus de Dacia, *Expositio super Algorismum* (116v–142r); Robertus Anglicus, comm. on Sacrobosco's *De sphaera* (142v–166r). Blank: Ir–Vr (except III–IV, containing unrelated material from another MS), 166v–169v.

Bibl. Madan/Craster 1922–1937, II.1, 202–03 (no. 2083); Pedersen 1983–1984, I, 71 and 168; Pedersen 2002, I, 140.

111v–116r 'Incipit liber Thebit Benchotach de hiis que indigent exposicione antequam legatur Almagesti. <E>quator diei est circulus maior qui describitur super 2 polos orbis — propinqui opposicioni erunt retrogradi. Expletus est liber Thebit filii Core de hiis que indigent exposicione antequam legatur Almagesti. Deo gracias. Explicit.'
= **Thebit Bencora, *De hiis que indigent exposicione antequam legatur Almagesti* (C.1.1).** No glosses.

Oxford, Bodleian Library, Bodley 597

s. XV. **Prov.:** donated to the Bodleian Library by dame Mary of Easton in 1601.

Parchment (f. 1–111) and paper (f. 112–335), 335 f. MS made of two distinct parts, the first of which (f. 1–111) is copied in a single hand with decorated initials. At least one folio is missing after f. 111.

Ptolemaica (1r–102v and 103r–111v). The second part of the MS (f. 112–335) contains the 'Doctrinal de los cavalleros' in Spanish.

Bibl. Madan/Craster 1922–1937, II.1, 337 (no. 2377); Lemay 1999, I, 415–16.

1r–102v 'Dixit Egideus de Tabaldis (!) Lonbardus de civitate Parmen<si>: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... Tractus (!) primus

glose Aly Abenrudiani super prima parte libri quadripartiti Ptholomei Pheludiani. Dixit Aly: Verba que dixit sapientissimus Ptholomeus in arte iudiciorum astronomie... (2v) Capitulum primum primi tractatus libri 4 parcium Ptholomei. Res, Misori, quibus perficiuntur pronosticaciones accepte de astronomia maiores et nobiliores sunt due — (100r) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit. Benedictus sit Deus gloriosus et sublimis et Deus illum dirigat qui scripsit. Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, et prima est nativitas mea — et Deus te dirigat in viam rectam. Explicit quod Kayll (!) Quadrip<er>titus Tho<lome>i cum commento Aly.’
 = **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 1r; Haly’s preface, 1r–2v; I, 2v–28r; II, 28v–52r (52v blank); III, 53r–82r; IV, 82r–100r; Haly’s appendix, 100r–102v. Glosses apparently by the scribe.

- 103r–111v ‘Mundanorum ad hoc et ad illud mutacio corporum celestium... I. Scientia astrorum ex te et illis — (104v) et secundum hoc annuncia quod futurum est ex malo et bono, si Deus voluerit. Scientia stellarum ex te et ex illis est et cetera. Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Tho<lome>us, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — quod erit inter locum Solis in eadem die et locum Lune in nativitate...’
 = **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3),** ‘Mundanorum 1’ (v. 1–96, wrongly numbered up to 100), 103r–104v; ‘Mundanorum 2’ (v. 1–88), 104v–111v. The text ends abruptly at the bottom of f. 111v, due to at least one missing folio. Glosses apparently by the scribe.

Oxford, Bodleian Library, Canon. Misc. 61

s. XV.

Parchment, 136 f., a single neat hand.

Astronomy: Pseudo-Messahallah, *De compositione astrolabii* (1r–8v); ***Ptolemaica* (9r–11r)**; ‘Opus quorundam rotarum mirabilium quibus sciuntur vera loca omnium planetarum etiam hore dierum ac noctuum (!). Fiat columpna et locetur in congrua basi...’ (11r–11v); Robert of Chester, *De officio astrolabii* ‘Incipit liber de officio astrolabii secundum magistrum Robertum Cestrensem. De gradiis Solis per diem et diei per gradum inventione. Si gradum Solis inveniatur in singulis diebus anni per astrolabium...’ (12r–22v); ‘Incipit canon super chilindrum. Acceptorus horas cum chilindro...’ (23r); Albategni, *De scientia astrorum*, incomplete (23r–134v). Blank: 135r–136v.

Bibl. H. O. Coxe, *Catalogi codicum manuscriptorum Bibliothecae Bodleianae*, III: *Codices Graecos et Latinos Canonicianos complectens*, Oxford, 1854, 473–74; Zepeda 2018, 72.

- 9r–11r ‘Incipit opus armillarum. Rubrica. <Q>ueruntur primo 2 convenientis mensare (!) armille — (9v) vicinior vero est consideratio. Explicit opus armillarum. Incipit opus instrumenti declinationis Solis. <S>ume laterem ligneum vel lapideum — (10r) si Solis umbram in omni meridie circa utrumque maxime solsticium observaveris. Opus instrumenti quo latitudo Lune et distantia centri Lune a terra deprehenditur. <S>umantur 3 regule recte et planissime — arcus inquam deprehensue (!) inter locum latitudinis Lune et visum locum Lune.’
= *Almagesti minor* (C.1.4), excerpts on instruments from V.1, I.15 and V.11. No glosses.

Oxford, Bodleian Library, Canon. Misc. 71

s. XIII or XIV. **Or.:** southern (‘ç’ for ‘z’, section in French f. 20v, added notes in Italian f. 45v and 74v). **Prov.:** notes by two later hands f. 74v: ‘1375 ... (?) Februarii die decimo septimo fuit locus placabilis et duravit per dies octo. Ego Marchus de ...lo (?) de Venec<iis?> de conf... (?) sancti Geminiani’ and ‘Questo libero sie de ... (?) Beneto da santa ...onal (?) preve dela gedi<n>a (?)’.

Parchment, 74 f., several hands.

Grammar, computus, arithmetic, astrology and biblical commentary: ‘Ut ad sapientiam per gramaticam venire possimus...’ (1r–4v); ‘Incipit computus magistri Petri de Bernia de arte astronomie. Ad habendum scientiam de computo, quid sit computus videamus...’ (5r–14r); notes on weights (14v); computus tables with notes (15r–16v); ‘Ars ista que ab inventore dicitur algorismus...’ (17r–19r); computus and arithmetic, partly in French (19v–20v); calendar (21r–26v); ‘De quadam operatione in numeris que algorismus dicta est...’ (27ra–31rb); ‘Conpotus est scientia considerans tempora distincta...’ (31va–40v); astrology ‘Sciendum quod zodiacus dividitur in 12 partes equales que appellantur signa...’ (41ra–44vb); *Ptolemaica* (46ra–46vb); ‘Incipit massa compoti. Tempora dante Deo mea scribere curat arundo...’ (47r–54v); Alexander of Villedieu, *Carmen de algorismo* (55r–58vb); biblical commentary (59r–73rb). Blank: 45 (except added notes in Italian f. 45v), 73v–74v (except added notes).

Bibl. H. O. Coxe, *Catalogi codicum manuscriptorum Bibliothecae Bodleianae*, III: *Codices Graecos et Latinos Canonicianos complectens*, Oxford, 1854, 477–79; Lohr 2025, 108*–09*.

- 46ra–46vb ‘Saturnus est homo fuscus et paucos pilos habet in barba, non est pulcer, operatur iniqua, gravis, piger... (46rb) Saturni ars gravis, scilicet laborare ortos... Aries multos capillos habet, corpus curvum, faciem longam — (Pisces) oculos rotundos gerit.’
= *Pseudo-Ptolemy, Iudicia* (B.3), excerpts (three chapters). No glosses.

Oxford, Bodleian Library, Canon. Misc. 554

s. XV¹ (1435 for Hand I, including the Ptolemaic section). **Or.:** Padua, copied by Candus, nephew of Prosdocimo de Beldomandi (cf. f. 194r: ‘Complete sunt tabule composite per

excellentissimum sui temporis virum magistrum Prosdocimum de Beldemando, quas ego Candus, artium et medicine doctor, eius nepos, Padue scripsi 1435, die 20 Februarii...'; the drawings f. 154–174 are partly copied from the frescoes in the church of the Eremitani in Padua). **Prov.:** bought by Coco de Rugeriis in 1566 (cf. f. Iv: 'Emptum a D. D. Coco de Rugeriis anno 1566').

Parchment, 225 f., two neat hands (I: f. 1r–93v and 174–225; II: f. 94–153), reserved initials.

Mathematics, astronomy and astrology: Euclid, *Elementa*, ed. Campanus of Novara, Books I–VI (1r–73r); Prosdocimo de Beldomandi, *Canones de motibus corporum supercelestium* (73v–93v); Boethius, *De arithmetica* (94r–153v); drawings of constellations and planets (154r–174r); star catalogue verified 1251, incomplete, missing all numerical data (174v–194r); **Ptolemaica (196r–225r)**. Blank: I–III (except various notes, including a 16th-c. table of contents f. IIr), 194v–195v, 225v.

Bibl. H. O. Coxe, *Catalogi codicum manuscriptorum Bibliothecae Bodleianae*, III: *Codices Graecos et Latinos Canonicianos complectens*, Oxford, 1854, 856–57; Saxl 1915–1953, III.1, 341–44; Pächt/Alexander 1966–1973, II, 60 (no. 598); Watson 1984, 60 (no. 373); *CBCLM*, I, 189–90 (no. 176); Lemay 1999, I, 257–59; Blume/Haffner 2012–2016, II.1, 441–46.

196r–196v ' <D>ixerunt Ptholomeus et Hermes quod locus Lune in hora — et hoc expertus fuit multociens.'

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). No glosses.

196v–197r ' <P>tholomeus dixit quod stelle cum caudis sunt IX — in regibus et divitibus apparebit.'

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). No glosses.

196r–225r 'Incipit liber centum verborum Ptholomei. <D>ixerunt Ptholomeus et Hermes quod locus Lune in hora — (196v) et hoc expertus fuit multociens. <P>tholomeus dixit quod stelle cum caudis sunt IX — (197r) in regibus et divitibus apparebit. <D>ixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... <S>cientia stellarum ex te et illis... (197v) <Q>uod dixit Ptholomeus, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — et ego Deum pre<cor ut te di>ligat. Et prefecta est huius libri tran<slatio 17> die mensis Martii, 12 die mensis G<umedi> secundi anno Arabum 530. Deo gratias. A<men?>. Et sic expletus est liber centum verborum Ptholomei.'

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**. The text opens with Pseudo-Ptolemy's *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 196r–196v (see above) and *De cometis* (B.4) on f. 196v–197r (see above). No glosses. F. 225, containing the last lines of the text, is torn, making parts of those lines illegible.

Oxford, Bodleian Library, Digby 37

s. XIV (f. 1–55, the rest of MS dates from the 12th to the 15th c.). **Or.:** England (f. 1–55). **Prov.:** Thomas Allen (f. 1–55).

Parchment (f. 1–55), 141 f. Composite MS made of four parts, the first of which (f. 1–55) is copied in a single hand.

Scientific texts (f. 1–55): Urso of Salerno, *Aphorismi*, end only (1r–3v); *Secretum philosophorum* (4r–43r); **Ptolemaica** (43r–45v); Pseudo-Albertus Magnus, *Liber aggregationis* (46r–55r); added astrological notes (55v). The other parts of the MS contain mostly non-scientific texts.

Bibl. Macray 1883, 33–34; Pächt/Alexander 1966–1973, III, 67 (no. 754); *CMML*, I, 121–22.

43r–45v ‘Incipit liber ymaginum Tholomei omnibus modis prior et veracior per quem omnes orientales operantur — et impetrabis ex eo quod annus (!) tuus desiderat. Explicit liber ymaginum Tholomei.’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**. No glosses.

Oxford, Bodleian Library, Digby 40

s. XII^{ex}–XIIIⁱⁿ. **Or.:** England. **Prov.:** Thomas Allen (f. 1r).

Parchment, IV + 145 f., several hands, one of which copied f. 1–8. One or several folia are missing at the end.

Astronomy, physics, computus and natural philosophy: table of contents, added (IVv); **Ptolemaica** (1r–8r); Philo of Byzantium, *Pneumatica* ‘Quia tuum amice tui Arzothoni iam novi desiderium ad sciendum...’ (9r–13r); Pseudo-Euclid, *De speculis* (13r–15v); Alkindi, *De sompno et vigilia* ‘Tu, cui Deus occultorum veritates patefaciat...’ (15v–19r); Roger of Hereford, *Computus* (21r–50v); computus table 1063–1576 (51v); Abraham Avenezra, *Liber de rationibus tabularum* (52r–88v); Alfraganus, *De scientia astrorum*, tr. John of Seville (89r–113r); ‘Cum terra sit rotunda dividitur in quatuor partes...’ (113v–115v); Albategni, *De scientia astrorum*, end gone (116r–145v). Blank: I–IVr (except for added titles and notes), 8v (except for added notes), 19v–20v (except for added notes and pen trials), 51r.

Bibl. Macray 1883, 36–37; Björnbo/Vogl 1912, 138–39; Pächt/Alexander 1966–1973, III, 30 (no. 292); Watson 1984, 67 (no. 417); A. Borst, *Der karolingische Reichskalender und seine Überlieferung bis ins 12. Jahrhundert*, Hannover, 2001, I, 299–300; A. Lohr, *Opera de computo saeculi duodecimi*, Turnhout, 2015, XLI.

1r–8r ‘Incipit in nomine domini pii et misericordis incipit liber de compositione universalis astrolabii. Ptolomeus igitur Mercurii incedens vestigiis in libro suo qui vocatur Almagesti de motu sic ait: Ait enim omnis motus aut de puncto aut ad punctum — cum una eademque utrique conveniat ad plenum dicitur. Explicit liber Ptolomei de compositione astrolabii universalis quem

scilicet in civitate Londonie ex Arabico in Latinum transtulit, era millesima centesima LXXXV.’

= **Pseudo-Ptolemy**, *Liber de compositione universalis astrolabii* (B.2).

No glosses.

Oxford, Bodleian Library, Digby 51 [Plate 2]

s. XII^{med} (see Lévy/Burnett, 73 n. 27; Macray dates the MS to the 13th c. or perhaps to the end of the 12th c., and Pächt/Alexander to the first half of the 13th c.; Stefan Georges, private communication, dates the MS to the middle or the second half of the 12th c.). **Or.:** Italian and French/English hands, the parchment is of Italian type (Lévy/Burnett, 72–73). **Prov.:** the MS was in England by the second half of the 13th c.; Thomas Allen.

Parchment, 138 f., several hands (partly alternating), one of which copied f. 59r–122v. Six quires are missing in the beginning.

Astronomy, mathematics and astrology: Albategni, *De scientia astrorum*, beginning missing (1ra–17vb); Hermann of Reichenau, *De mensura astrolabii* (18ra–21ra); *De utilitatibus astrolabii* (21ra–25vb); Rudolf of Bruges, *De compositione astrolabii* (26ra–28rb); Ibn al-Šaffār, *De opere astrolabii*, tr. Plato of Tivoli (28rb–35rb); fragments on an astronomical instrument ‘In planitie libera utrobique orizonti detecta...’ (35va–36ra) and on arithmetic ‘De numeris. Omne quod est unum remanens a divisione integrorum...’ (36ra–36va); Berengarius, *De horologio viatorum* (36va–38va); Abraham Avenezra, *Liber figurarum* (*Sefer ha-Middot*) (38va–42vb); ‘Incipiunt sentencie astrologorum in iudiciis observande. Quando igitur aliquis venit ad te ut verum ei iudicium possis dare...’ (43ra–46vb); Albumasar, *Flores* (47ra–55ra); Alkindi, *Iudicia astrorum*, tr. Robert of Ketton (55rb–79ra); **Ptolemaica** (79ra–114va); Albohali, *De nativitatibus*, tr. Plato of Tivoli (114vb–131ra); *Capitula Almansoris* (131ra–133vb); Messahallah, *De cogitatione* (133vb–134rb); Messahallah, *Liber interpretationum* (134rb–136ra); Messahallah, *Epistola de rebus eclipsium* (136ra–137va); three interrogation horoscopes for 18 November 1131 (correct for 22 July 1130) and 27 February 1121 (137va–138va).

Bibl. Macray 1883, 46–49; Pächt/Alexander 1966–1973, III, 38 (no. 402); R. Lorch, G. Brey, S. Kirschner, C. Schöner, ‘Traktat über das Astrolab in der Übersetzung von Plato von Tivoli’, in *Cosmographica et Geographica: Festschrift für Heribert M. Nobis zum 70. Geburtstag*, I, eds B. Fritscher, G. Brey, München, 1994, 125–81: 134–36; T. Lévy, C. Burnett, ‘*Sefer ha-Middot*: A Mid-Twelfth-Century Text on Arithmetic and Geometry Attributed to Abraham Ibn Ezra’, *Aleph* 6 (2006), 57–238: 69–74.

79ra–114va ‘In nomine domini misericordis et pii, incipit liber IIII tractatum Batolomei Alfalisobi (?) in scientia iudiciorum astrorum. Tractatus primus est in quo sunt XXIIII capitula. Capitulum primum in collectione intellectus sciencie iudiciorum astrorum. Dixit Batolomeus: Rerum, Yescure, in quibus est pronosticabilis sciencie stellarum perfectio magnas et precipuas duas esse deprehendimus... (107va) Finit tractatus III libri IIII Batolomei feliciter. Tu autem domine miserere Platoni. Deo gratias — hoc in loco huic libro Deo volente finem inponere non incongruum existimamus. Explicit liber

quatuor Batolomei in iudicandi discretione per stellas de futuris in hoc mundo constitucionis et destructionis contingentibus, Deo gratias. Et perfectus (!) est eius translatio de Arabico in Latinum a Tiburtino Platone, cui Deus parcat, hora tertia XX^a die mensis Octobris, anno domini MCXXXVIII, XV die mensis Saphar, anno Arabum DXXXIII, in civitate Barchinona. Et Deus nos custodiat et actus nostros dirigat. Tu autem, domine, miserere nostri.’
 = **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 79ra–87va; II, 87va–96ra; III, 96ra–107va; IV, 107va–114va. Glosses by the scribe or a similar hand. Glosses in Arabic f. 88v [Plate 2] (same in ↗Paris, BnF, lat. 7320).

Oxford, Bodleian Library, Digby 57

s. XIV² (probably c. 1374–1375, cf. f. 21v–23v and 111r–120v). **Or.:** University of Oxford. **Prov.:** John Philipp, rector of Exeter College, Oxford, who sold the MS in 1468 (f. Iv); Thomas Allen.

Parchment, IV + 179 f., several contemporary hands, one of which copied at least f. 127–178. Several folia are missing after f. 178.

Astronomy and astrology: 15th-c. additions, including notes on the date of birth of several individuals, e.g. Edward IV (IIr), table of contents of the MS (IIv) and astronomical notes (IIIr and IVv); astronomical tables and canons (1ra–126r), including planetary tables for 1374–1405 (21v–23v), William Rede’s Oxford tables (32r–43v), astronomical tables for Oxford 1348 (44r–102r) and syzygy tables for Oxford 1375–1390 (111r–120v); ‘Quantitas diametri Lune et quantitas sesquidiametri umbre...’ (127r–129v); equatorium ‘Quia nobilissima scientia astronomie...’ different from John of Ligneres’s treatise bearing the same incipit (130r–132v, ed. Falk); ‘Consequens est scire tabulas de ascencionibus signorum...’ (133r–137r); Raymond of Marseille, *Liber iudiciorum*, reworking known as ‘Leicester *Iudicia*’ (137v–141v); **Ptolemaica (142r–143r)**; Robert Grosseteste (?), *De impressionibus aeris* (144r–145v); Roger of Hereford, *De quatuor partibus iudiciorum astronomie*, excerpt (145v–151v); Albohali, *De nativitatibus*, tr. Plato of Tivoli, excerpt (151v–161r); *Astronomia Ypocratis* ‘De cadentibus in quacumque infirmitate Luna existente in quoque signo...’ (161r–165r); **Ptolemaica (165r–171r)**; ‘Ad honorem Dei et ad habendum cognitionem iudiciorum astronomie oportet primo narrare naturam zodiaci...’ (171r–176v); **Ptolemaica (176v–178r)**; ‘Nota quod locus Lune in nativitate fuit ascendens in conceptione...’ (178r); *tonitruale* ‘Si tonat in Ariete, herbe habundabunt, angustiabuntur filii hominum...’ (178r–178v); Messahallah, *Liber de intentionibus secretorum astronomie*, first lines only (178v); end of an astrological text added by later hand (179r–179v). Blank: Ir–Iv (except owner’s note f. Iv), IIIv–IVr, 126v, 143v.

Bibl. Macray 1883, 59–62; S. Falk, ‘A Merton College Equatorium: Text, Translation, Commentary’, *SCIAMVS* 17 (2016), 121–59: 131–33; S. Falk, ‘Understanding the Length of Life: The Glosses on Plato of Tivoli’s Translation of the *Quadripartitum*’, *SCIAMVS* 22 (2022), 195–251: 201–02.

142r–143r ‘<L>iber Almagesti ex precepto Maymonis regis Arabum qui regnavit in Baldach — In dictione sexta Almagesti sunt 13 capitula... 10 De equatione eclipsium solarium, undecimum De...’

- = **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, second part of the preface and chapter index ending with VI.10 at the bottom of f. 143r, with f. 143v (and three unnumbered folia) left blank. No glosses.
- 165r–171r ‘Capitulum 10. De spatio vite. Sensus huius litere est quod vita continuatur et durat per loca plegiorum (!) et per planetas eadem loca disponentes, id est in eisdem locis maiorem dignitatem habentes — complexionis eiusdem hominis.’
= **Gerard of Cremona, *Commentum in Quadripartitum* (C.2.1)**. No glosses.
- 176v–178r ‘Incipiunt ymaginum Tholomei. Opus ymaginum secundum consilium Tholomei est omnibus modis veracior in probatione quoniam eius effectus constitutus est super facies signorum et est certissimum. Quidem (?) Albuzar (!) et Arabici et omnes orientales operabantur cum eo — et aspiciant eam fortune, mali vero sint cadentes ab eo. Explicit.’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, with significant departure from the standard version (see MS ¹London, SAL, 39). No glosses. Chapter numbers and topics indicated in the margin.

Oxford, Bodleian Library, Digby 75

s. XV² (1458 for the first Ptolemaic section, cf. colophon f. 91v and probably for most of f. 1–120, for the same date is also given f. 40r). **Or.:** England. **Prov.:** Thomas Allen (f. 1–120).

Paper, 243 f., MS made of two parts (f. 1–120 and 121–243). The first part is in several hands, one of which copied f. 73–107 and 113–17.

Medicine, astrology and astronomy (f. 1–120): ‘De virtutibus herbarum. Absinthium calidum et siccum...’ (1r–40r); recipes in English (40v–51r); *De ornatu mulierum* (52r–64r); recipes in Latin and English (64v); Peter Peregrinus of Maricourt, *De magnete*, excerpt (65r–66r); recipes in English (66v); physiognomony ‘Oculus magnus et rotundus et albus significat...’ (67r–68r); ‘Tractatus membrorum distemperatorum. Incipit tractatus de medicinis omnium membrorum distemperatorum...’ (68r–69v); antidotary ‘Quoniam de melioribus amicis quos habere videor...’ (70r–72v); ***Ptolemaica* (73r–91v and 92r–107v)**; text on urines in English (108r–112v); excerpt from the canons of the Toledan tables ‘Si volueris scire de Luna utrum sit in longitudinis...’ (113r–117r); excerpt on the virtues of herbs (117r–118v); list of plants, alphabetical A–E (118v–120v). Blank: 51v (excepts added notes in English). The second part of the MS (f. 121–243) contains non-scientific texts.

Bibl. Macray 1883, 80–82; Watson 1984, 67 (no. 420); Lemay 1999, I, 259.

- 73r–91v ‘Dixit Ptholomeus: Iam scripsi tibi, Ih<es>ure (?), libros de hoc seculo et sunt libri multi quod operantur stelle... Verbum primum. Sciencia stellarum ex te et illis est... Quod dixit Ptholomeus, ex te et illis est, significat quod qui res futuras scire desiderat — Et ego Deum deprecor ut te dirigat. Perfecta est huius libri translacio. Ultimo die Septembris. Expliciunt Centilogia secundum Tholomeum anno domini 1458.’

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**. No glosses.

- 92r–107v ‘Incipit liber 4 partium Ptholomei. Capitulum I in collectione (?) sciencie iudiciorum astronomorum. Rerum, Ihesure, in quibus est pronosticabilis sciencie stellarum perfectio magnas et precipue duas esse deprehendimus — et incorruptibilis eorum amicitia pro consanguineis rebusque laudandis et honestis morti se leviter tradunt...’
 = **Ptolemy, *Quadripartitum***, tr. **Plato of Tivoli (A.2.1)**, I–II.3. I, 92r–104r; II, 104r–107v. Abrupt end mid-sentence at the bottom of f. 107v in ch. II.3, but it is unclear whether pages are missing or whether the scribe stopped at that point. No glosses.

Oxford, Bodleian Library, Digby 114

s. XIV¹. **Or.:** England, perhaps Oxford (cf. f. 30r–32v). **Prov.:** Thomas Allen.

Parchment, 229 f., several hands. MS truncated, with missing elements at least between f. 52–53, between f. 107–108 and after f. 229.

Astronomy and astrology: tables of Novara (1r–7v); John of Ligneris, various canons of Alfonsine tables (8r–12^{bis}r); astronomical tables, at least partly Alfonsine (12^{bis}v–16v); canons of Toledan tables (17ra–18vb); astronomical tables related to the Toledan tables (19r–24v); astronomical tables for Toledo, Toulouse and London (25r–29v); astronomical tables for Oxford (30r–32v); canons of astronomical tables (33r–34v); Roger of Hereford, *Theorica planetarum*, excerpt (35va–35vb); astronomical tables (36r); table of eclipses for 1324–1330 (36v); Prophatius Judeus, *Almanach* (37ra–52v); Albumasar, *De magnis coniunctionibus*, truncated and incomplete (53r–61r, 62ra–82vb, 86r–102r and 103va–103vb); Alkindi (?), *Saturnus in Ariete sub radiis...* (61r–61v); two short astronomical chapters (61v); Pseudo-Bede, *De tonitruis* (83ra–83rb); ‘In conceptione humana primus mensis...’ (83v–84r); ‘Si Sol fuerit in emisperio australi et Venus sub radiis eius...’ (84r); canons of astronomical tables (102r–103r); ‘Quantum ad minucionem temporis oportet inspicere...’ (104v); ‘Scientia stellarum fixarum et quod evenit ex operibus earum...’ (105r–107r); astrological notes on the great conjunction of 1306 (107r–107v); **Ptolemaica (108r–164v)**; Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen (165r–175r); ‘De lunari effectum atque potentia...’ (175v–176r); Zael, *Fatidica* (176r–199v); Haly Abenragel, *De iudiciis astrorum*, VIII.1–25, end gone (199v–229v). Blank: 35r, 71v, 84v–85v (except for a short astronomical note f. 84v), 104r.

Bibl. Macray 1883, 127–29; Pedersen 2002, I, 143–44.

- 108r–164v ‘Commentarius Haly in Quadripartitum Ptolomaei, sed imperfectus quia incipit in 19 capitulo libri I. Liber primus, capitulum 19. Haly Aben Rodan [added in upper margin by one or two later hands] ... tales ventos et pars occidentalis est feminina. Aly: Ratio propter quam Mars dominatur in parte occidentis est quia in sua complexione temperatur propter magnam humiditatem — et si intellexeris ea bene, scies id quod accidet in mundo

de pauco vel multo cum auxilio summe rei. Hic perficitur glosa Hali super secunda parte Quadripartiti Tholomei. Finitur commentarius Haly in Quadripartitum Ptolomei [explicit by the same later hand as on f. 108r].’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**, I.19-II. Book I, 108r–113v; II, 113v–164v. The text opens abruptly towards the middle of I.19 due to missing folia, as made clear in the added note f. 108r. Occasional short glosses by a later hand.

Oxford, Bodleian Library, Digby 168 [Plate 7]

s. XIV (f. 1–146). **Or.:** f. 1–107 (including the Ptolemaic sections) and 131–135 were copied by Simon Bredon, probably at Oxford; f. 108–115 were copied in Italy; f. 116–130 and 136–138 in England; and f. 139–146 in probably in France (Boudet/Miolo). **Prov.:** Simon Bredon, who probably assembled the first part (f. 1–146) and bequeathed it to Merton College, Oxford, in 1372; Thomas Allen.

Parchment, 231 f. (foliation in pencil, upper right corner). Composite MS, of which the first part (f. 1–146) forms a unit copied by several hands. Folia are missing at the beginning and in several places, including between f. 20–21, 23–24, 64–65, 66–67, 69–70, 88–89, 115–116 and 130–131. The other parts date from the 13th and 14th c. acc. Macray.

Astronomy mainly (f. 1–146): Richard of Wallingford, *Quadripartitum*, beginning missing (1r–13v); Alfraganus, *De scientia astrorum*, tr. John of Seville, end missing (13v–20vb); **Ptolemaica (21r–39r)**; Campanus of Novara, *Theorica planetarum* (40ra–61va); Richard of Wallingford, *Tractatus rectanguli* (61va–64va); John of Ligneres, *Equatorium planetarum* (64vb–65rb); ‘Incipit secundus tractatus canonum fratris Rogeri de Cotum. Qui voluerit planetas equare seu eclipses solares...’, incomplete (65rb–66rb); John of London, *De motu octave spere*, end only (67ra); **Ptolemaica (68ra–69vb)**; Roger of Hereford, *Theorica planetarum* (69vb–83vb); canons of Toledan tables (84ra–93vb); *Theorica planetarum Gerardi* (94ra–98ra); ‘Hic incipit almenak. In faciendo almenak sunt primo extrahendi...’ (98ra–98vb); ‘Incipit theorica planetarum nova. Sit circulus A et circulus signorum, id est zodiacus...’ (99ra–107rb); ascension tables (107v); *Theorica planetarum Gerardi* (108ra–113vb), with incomplete diagrams (114v–115r); astrological diagram (115v); anthology of texts of astronomy, geometry, arithmetic and optics, including by Geminus of Rhodes, Menelaus, Archimedes, Tres Fratres Filii Moysi, Autolicus, Ametus filius Josephi, Alkindi and Tideus (116ra–130vb); John of Saxony, *Canones* (131ra–135va); latitude tables for superior planets (136v–138r); Alfonsine tables (139r–144v and 146v); John of Ligneres, *Canones Tabularum Alfonsinarum* (145ra–146rb). Blank: 39v, 66v, 67v, 114r, 135vb–136r, 138v. The other parts of the MS (147–231) contain historical and theological texts.

Bibl. Macray 1883, 172–77; Clagett 1964–1984, I, xxvi–xxvii; Benjamin/Toomer 1971, 66; North 1976, II, 32 and 35–36; Pedersen 2002, 144–45; J.-P. Boudet, L. Miolo, ‘Alfonsine Astronomy and Astrology in Fourteenth-Century Oxford. The Case of MS Bodleian Library Digby 176’, in *Alfonsine Astronomy: The Written Record*, eds R. Kremer, M. Husson, J. Chabás, Turnhout, 2022, 57–106: 72–74.

- 21r–39r ‘Bredon [in the upper margin, apparently by another hand]. Edicio Bredonis de Almagesti [lower margin, hand of the scribe]. Quoniam princeps nomine Albugaue in libro suo quem scientiarum electionem et verborum nominavit — erunt qui provenerint anni Nabugodonosor, qui sunt per quos intrabis in hunc librum’ (followed by the two tables ‘Ferie annorum’ and ‘Reductio earum’).
= **Simon Bredon, *Commentum super Almagesti* (C.1.8)**. Preface, 21r; I, 21r–23v (with lacuna I.3–12 due to three missing folia between f. 21 and 22); II, 24r–30v (beginning gone due to two missing folia between f. 23 and 24); III, 30v–39r. Corrections and marginal notes by the scribe (Simon Bredon).
- 68ra–69vb ‘Liber Thebit [title in upper margin, hand of the scribe]. Liber quem edidit Thebit filius Thore de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur — propinqui oppositioni erit retrogradi. Explicit.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Oxford, Bodleian Library, Digby 178

s. XIV¹ (f. 1–14 and 88–115) and XV (f. 15–87). **Or.:** University of Oxford, f. 1–13r and 88–115 are in Simon Bredon’s hand. **Prov.:** f. 1–14 and 88–115 were part of Simon Bredon’s bequest to Merton College in 1372; f. 15–87 have been annotated by Lewis Caerleon (e.g. f. 38r–38v and 46r); John Dee; Thomas Allen.

Parchment, 115 f. Composite MS made two parts: I, f. 1–14 and 88–115 (14th c., copied by Simon Bredon, except f. 13r–14r); II, f. 15–87 (15th c., two main hands: f. 15–38 and 39–86). F. 1–14 and 88–115 originally belonged with MS ⁷London, BL, Harley 625 (see entry for this MS, under Note 1).

Astronomy and geometry: table of contents, early modern (1r); tables: equation of houses for latitude 51° (4v); tables: planetary latitudes (5r–8v); ‘De motu Thebith. Campanus Novariensis capitulo 10 compoti sui sic diffinit annum...’ (9r–10v); solar tables 1341–1344 for Oxford (11r–12v); Simon Bredon, *Conclusiones de quadratura circuli* ‘Omnis numerus quadratus totus est in numerorum ordine — Has conclusiones recomendo ego Simon de Bredon <e>volenti circa quadraturam circuli laborare’, added in lower margin (11v–13r); table: latitude of the Moon (13r); scattered astronomical and mathematical notes by several hands (13v–14r); Richard of Wallingford, *Quadripartitum* (15r–38r), with notes by Lewis Caerleon (38r–38v); **Ptolemaica** (39r–86v); notes on the distance earth–Moon (87r–87v); Euclid, *Elementa*, ed. Campanus of Novara, reworking (88ra–107ra); **Ptolemaica** (107rb–108rb); Theodosius, *Spherica*, tr. Gerard of Cremona (108va–111rb); Menelaus, *Spherica* (111va–115vb); ‘Omnis triangulum duorum equalium laterum...’, end gone (115vb). Blank: 1v–4r, 14v.

Bibl. Macray 1883, 190–92; North 1976, II, 32 and 36–37; A. G. Watson, ‘A Merton College Manuscript Reconstructed: Harley 625; Digby 178, fols 1–14, 88–115; Cotton Tiberius B. IX, fols 1–4, 225–35’, *Bodleian Library Record* 9 (1976), 207–17 (reprinted in A. G. Watson, *Medieval Manuscripts in Post-Medieval England*, Padstow, 2004, XIII).

- 39r–86v ‘Arcus dicitur pars circumferencie circuli sive medietati talis circumferentie — (41v) Et hec pauca sufficiunt dicta pro sinus et arcus aliquali notitia. Explicit. (42r) Commentum m<agistri> Symonis Bredon super aliquas demonstrationes Almagesti [title in upper margin, hand of the scribe]. Nunc superest ostendere quanta sit maxima declinatio ecliptice ab equinocciali — erunt qui provenerint anni Nabugodonosor, qui sunt per quos intrabis in hunc librum’ (followed by the two tables ‘Ferie annorum’ and ‘Reductio earum’).
= **Simon Bredon**, *Commentum super Almagesti* (C.1.8), I.9–11, 39r–41v; I.12–14, 42r–47r; II, 47r–65r; III, 65r–86v. A few marginal notes by the scribe, a longer note by Lewis Caerleon f. 46r and a few notes by a much later hand f. 66r–69r. For f. 39–41 as belonging to the text, see Zepeda 2018, 96.
- 107rb–108rb ‘Cum superficies secat speram tunc differentia communis illi superficiei et superficiei spere — prescriptorum prout volueris.’
= **Geber**, *Liber super Almagesti* (C.1.2), excerpts from Book I (enunciations only, with additional notes). No glosses.

Oxford, Bodleian Library, Digby 179

s. XIV¹. **Or.:** MS copied by Simon Bredon, probably in Oxford. **Prov.:** Simon Bredon, who bequeathed the MS to Merton College, Oxford, in 1372; Thomas Allen.

Parchment, III + 208 f., a single hand (Simon Bredon), for both the main text and the glosses, decorated initials.

Astrology: *Ptolemaica* (f. 1r–170v and 171r–208v); ‘Que sequuntur in Greco exemplari sub iniuncta (?) reperi quo mense morietur quis in omni nativitate. Sole ad horoscopus...’ (208vb). Blank: Ir–IIv (except for added title f. Ir: ‘Ptolomaei Quadripartitum’, early modern hand). F. IIIra–IIIvb contains a fragment of John Chrysostom’s sermons in an earlier hand.

Bibl. Macray 1883, 192; Vuillemin-Diem/Steel 2015, 3–5; J.-P. Boudet, L. Miolo, ‘Alfonsine Astronomy and Astrology in Fourteenth-Century Oxford. The Case of MS Bodleian Library Digby 176’, in *Alfonsine Astronomy: The Written Record*, eds R. Kremer, M. Husson, J. Chabás, Turnhout, 2022, 57–106: 72 and n. 64.

- 1ra–170vb ‘Dixit Egideus de Tebaldis Lonbardus de civitate Parmen<si>: Scire et intelligere gloriosum est opus quia omnis sapientia est a Deo... (1va) Tractatus primus glose Aly Abenridiani (!) super prima parte libri Quadripartiti Ptho<lome>i Pheuludiani. Verba que dixit sapientissimus Ptholomeus in arte iudiciorum... (3rb) Tholomeus, capitulum primum primi tractati [title in the margin]. Res, Mizori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — (166va) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, et prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Explicit. Explicit.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).**

Translator's preface, 1ra–1va; Haly's preface, 1va–3rb; I, 3rb–45ra; II, 45ra–83vb; III, 83vb–134ra; IV, 134ra–166va; Haly's appendix, 166va–170vb. Substantial glosses by Simon Bredon, which mainly consist of Plato of Tivoli's translation (see f. 3r–166r below), but also of glosses to Egidius de Tebaldis's translation.

(3r–166r)

'Incipit liber quadripartiti Ptholomei Pheludiensis de iudiciis astrorum secundum aliam translacionem. Prohemium [added by another hand: Et apparet Bredon<is>]. Pronosticacio per astronomiam fienda dependet a duobus, ab astrologia quadam universali... (3v) Capitulum I. Rerum, Sire, in quibus est pronosticabilis sciencie stellarum perfectio magnas et precipuas duas esse deprehendimus, quarum altera que precedit et est fortior — hoc in loco huic libro finem imponere non incongruum existimavimus. Explicit liber Alarba Ptholomei in distincione iudicandi per stellas de futuris et in constitucionis et destruccionis contingentibus.'

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**, as marginal glosses to the previous text. Simon Bredon's introduction, 3r; I, 3v–45r; II, 45v–82r; III, 84r–133v; IV, 134v–166r. No additional glosses.

171ra–208vb

'In primo libro iudicialium Claudii Tho<lome>i ad Sirum insunt ista capitula. Proemium est primum. Quod pronosticatio per astronomiam sit possibilis et usque ad quid... (chapter index). Prohemium. Capitulum primum. Hiis qui instituunt per astronomiam pronosticum finem, o Sire, cum duo insint maxima et principalissima: unum quidem quod et primum est ordine virtute — Consummata iam geneatici sermonis specie summatim, bene utique habebit huic tractatui convenientem inponere tempore [deleted] finem. Explicit liber Ptholomei.'

= **Ptolemy, *Quadripartitum*, tr. William of Moerbeke (A.2.6).** I, 171ra–179vb; II, 179vb–188vb; III, 188vb–201va; IV, 201va–208vb. Substantial glosses by Simon Bredon f. 193r–194v and 201v–202v.

Oxford, Bodleian Library, Digby 190

s. XIII–XIV. **Or.:** England (Oxford?). **Prov.:** Oxford, Merton College (North); Thomas Allen.

Parchment, 210 f. Composite MS made of various parts and fragments, of which f. 128–209 are in a single neat 13th- or 14th-c. hand (except for the last chapter of the Ptolemaic section f. 209r, added by a later, perhaps 14th-c. hand).

Natural philosophy, astronomy, computus and arithmetic: Albertus Magnus, *De mineralibus*, end gone (1ra–28vb); Roger Bacon (?), *De principiis nature* (29ra–37va); Roger Bacon (?), comm. on Aristotle's *Meteorologica* 'Cum ad notitiam impressionum habendam...' (38ra–43ra); theology (44r–53r); Aelred of Rievaulx, *De spiritali amicitia* (54r–65v); John of Murs, *Canones tabule tabularum*, end only (66r); mathematical tables (66va); arithmetic 'Cum agitur de numeris aut agitur de eis...' (66vb–68vb); computus 'Ad habendum circulum solarem sive litteram dominicalem...' (69r–71r); computus verses (71v–72r); John of Ligneris, *Algorismus de*

minutiis (72v–75r); computus tables (75v–76v); Roger Bacon (?), ‘De somno autem et vigilia pertractantes...’ (77ra–86vb); Roger Bacon, *Metaphysica* ‘Quoniam intentio principalis est innuere vobis vicia studii theologici...’, beginning only (86v); Alfraganus, *De scientia astrorum*, tr. John of Seville, end only (87r–87v); five paragraphs: ‘De inventione annorum Arabum per annos Christi’ (87va), ‘Tabula inventionis’ (87va), ‘Quadratura circuli per lunulas...’ (87va), ‘De mansionibus 7 planetarum’ (87vb) and ‘De inventione domorum planetarum septem in XII signis’ (87vb); ‘Boecius de disciplina scoliarum summum inquit solacium...’ (88ra–89vb); Richard of Wallingford, *Quadripartitum* (90r–105r); ‘Sequitur que species sint sub ipso Aristotele. Motuum alius est generacio, alius corruptio...’ (105v–127r); Gernardus, *Algorismus demonstratus* (128r–169r); Sacrobosco, *Algorismus* (169v–175r); Alexander of Villedieu, *Carmen de algorismo* (175r–180v); chapter index of a treatise of arithmetic (181v–183v); arithmetic ‘Eorum que sunt aliud continuum, aliud discretum...’ (184r–196v); Robert Grosseteste, *De sphaera*, end only (197r); Robert Grosseteste, *De iride* (197v–200r and 201v); **Ptolemaica** (202r–209r). Blank: 43v, 53v, 127v, 181r, 200v–201r, 209v–210v.

Bibl. Macray 1883, 201–04; Clagett 1964–1984, I, xxiii; North 1976, II, 32 and 35; *CMML*, I, 148–49.

202r–209r ‘Capitulum sextum secunde dictionis Almagesti [title in margin, hand of the scribe]. Ad huius autem similitudinem in reliquis lineis equidistantibus equationi diei — (207r) apparens super terram et medietas meridiana semper occulta. Postquam iam remansit scientia equandi locum Solis per motum eius — (208r) Et illud erit in XLV min<uto> prime partis Piscis. Primus dies annorum Alexandri II — quod est inter annos Christi et annos Arabum DCXXI, VI, XV. Et ex hic levior facta est nobis scientia magnitudinis corporum per id quod scivimus — (208v) et est centuplum et septuagintuplum corporis terre fere. (209r, later hand) Capitulum tertium libri quarti magni Almagesti. Cum nos multi<plicaveri>mus quod iam ostensum est ex motu Solis — et triginta quinta et triginta sexta fere. Et cum...’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, excerpts: II.6, 202r–207r; II.8, 207r–208r; III.10 (tables ‘Ferie annorum’ and ‘Reductio annorum’ appended to that chapter), 208r; V.16, 208r–208v; IV.3 (first lines only), 209r. A few corrections by the scribe, who also noted in the margin of f. 205v ‘Britania Maior’ and ‘medium Britanie Maioris.’

Oxford, Bodleian Library, Digby 228

s. XIV (eclipses 1328–1386 f. 52r–53r). **Or.:** England. **Prov.:** Thomas Allen.

Parchment, 79 f., three or more contemporary hands.

Astronomy, astrology, computus and astral magic: ‘Spera est circumferencia...’ (1ra–1vb); *Alchandreana* ‘Incipit quidam tractatus de 7 planetis et 12 signis et de multis aliis rebus sub compendio traditus. In principio creavit Deus celum et terram...’, end gone (1vb); table of contents, 15th c. (2v); ‘De significatione puerorum in qua die nascuntur. Sol est mundi oculus...’ (3ra–3rb); Alexander of Villedieu, *Massa compoti* (3va–7rb); **Ptolemaica**

(8ra–12va); Messahallah, *De cogitatione* (12vb–13ra); Messahallah, *Liber de intentionibus secretorum astronomie*, chs 4–12 (13ra–14ra); Geoffrey of Meaux, judgement on the comet of 1315 (14ra–14va); ‘Tractatus de 28 mansionibus Lune. Prima mansio Lune ab antiquis...’ (14va–15va); Prophatius Judeus, *Almanach*, excerpt from the canons ‘Astrologie floridos fructus quivis efficaciter metere concupiscat...’ (15vb–16ra); Albumasar, *Flores* (16ra–19vb); Robert Grosseteste, *Compotus* (20ra–27va); ‘Liber morum de regimine dominorum qui alio nomine dicitur Secreta secretorum editus ab Aristotile ad petitionem Alexandri imperatoris...’ (27vb–39r); ‘Liber de fructibus planetarum. Cupientibus habere fructum planetarum... Explicit liber de secretis secretorum Aristotilis’ (39r–40vb); Alfraganus, *De scientia astrorum*, tr. John of Seville (41ra–50ra); astronomical tables (50r–52r); drawings of eclipses 1328–1386 (52r–53r); John of Ligneris, *Equatorium planetarum*, uses only (53va–54va); Hermes/Belenus, *Liber imaginum Lunae* (54va–55ra); Hermes/Belenus, *De viginti quattuor horis* (55ra–55rb); Hermes/Belenus, *De imaginibus diei et noctis* (55rb–55va); Thomas Bradwardine, *Tractatus proportionum* (56ra–61va); Sacrobosco, *De sphaera* (61va–65vb); Robertus Anglicus, comm. on Sacrobosco’s *De sphaera* (66ra–73va); *Alchandreana: Breviarium Alhandrei summi astrologi* and chapters from the *Liber Alchandre* and other texts (73va–74ra); ‘Gloriosissimus et subtilissimus Deus creator omnium rerum ordinavit in VII speris VII planetas...’ (74ra–74va); Messahallah, *Epistola de rebus eclipsium* (75rb–76ra); Pseudo-Albertus Magnus, *Speculum astronomie* (76rb–79vb). Blank: 2r, 7v.

Bibl. Macray 1883, 239–41; L. Thorndike, *The Sphere of Sacrobosco and Its Commentators*, Chicago, 1949, 59–60; Zambelli/Caroti 1977, 165–68; F. Klaassen, ‘English Manuscripts of Magic, 1300–1500: A Preliminary Survey’, in *Conjuring Spirits: Texts and Traditions of Medieval Ritual Magic*, ed. C. Fanger, Stroud, 1998, 3–31: 11–13; Lemay 1999, I, 317–19; Juste 2007, 348–50; Paravicini Bagliani 2001, 36–37; F. Klaassen, *The Transformations of Magic. Illicit Learned Magic in the Later Middle Ages and Renaissance*, University Park, 2013, 60–64; Lohr/Nothaft 2019, 35.

8ra–12va

‘Incipit liber artis Ptholomei philosophi [title in upper margin, hand of the scribe]. <S>ciencia stellarum ex illis et ex te est. Astrologus non debet dicere rem specialiter sed universaliter... A<lia> t<ranslacio>: Mundanorum mutacio ad hoc et ad illud corporum supercelestium... A<lia> t<ranslacio>: Doctrina stellarum ex te illis est. Nec est doctrina in ea ut propheter (?) formam... <D>ixit Ptholomeus: Iam scripsi tibi, Iesure, scilicet in Quadripartito, libros de hac quod operantur stelle in hoc seculo... Quando dixit Ptholomeus ex te et illis, significat quod qui res futuras scire desiderat — et quanto melius quivimus exposuimus. Ait Thol<ome>us: Item (?) stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Dixerunt Thol<ome>us et Hermes quod locus Lune in hora — expertus fuit multociens. Cum volueris per almenac scire eclipsim Lune — quia Luna sub terra tunc erit sed si fuerit intra [imperfectum: this word added]...’

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), ‘**Mundanorum**’ version (C.3.1.3), with v. 1–15 in the ‘threefold’ version, i.e. also given in Plato of Tivoli’s and in Adelard of Bath’s translations (C.3.1.1 and B.1.1). V. 15 has been partially erased (f. 9rb). From v. 16 onwards

(f. 9va), only the ‘Mundanorum’ version is given, in ‘Mundanorum 2’. The text ends (f. 12va) with Pseudo-Ptolemy’s *De cometis* (B.4) and *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) (see below), after which the scribe continued with ‘Cum volueris per almenac...’ over six lines, before breaking off mid-sentence, probably realising that this paragraph was not part of the text. A few marginal notes (longer f. 9ra and 11rb) by the scribe and perhaps by another hand.

- 12va ‘Ait Thol<ome>us: Item (?) stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.
- 12va ‘Dixerunt Thol<ome>us et Hermes quod locus Lune in hora — expertus fuit multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). No glosses.

Oxford, Bodleian Library, Laud. Lat. 111

s. XV². **Or.:** Italy, copied by ‘Io. Rasel’ (or ‘Raesel’ or ‘Resel’), cf. f. 153r. **Prov.:** Domenico Grimani, cardinal of Venice (cf. f. 1r: ‘Liber D. Grimani, Cardinalis S. Marci’); William Laud, archbishop of Canterbury, in 1635 (cf. f. 1r).

Paper, III + 159 f., a single neat hand, reserved initials and titles throughout.

Ptolemaica (single text). Blank: Ir–IIv, 153v–159v.

Bibl. H. O. Coxe, *Bodleian Library. Quarto Catalogues*, II: *Laudian Manuscripts*, Oxford, 1858 (reprinted 1973), 50–51; Norlind 1966, 21–22; Monfasani 1984, 39.

- 1r–153r ‘<C>laudii Ptolomei de corporum caelestium motu libros e Graeca lingua in Latinam nobis traductos... (1v) <Q>uoniam libros Ptolomei de motibus caelestium, quibus nescio an quicquam altius ac rationis et scientie via certius inveniri aut fingi possit, ex Graeca lingua in Latinam vertimus... (8r) <C>oditis huius quem exposituri gratia creatoris sumus volumina librique, Iacobe Antonii Marcelle, XIII sunt, in quibus Ptolomeus intendit erraticarum stellarum et fixarum motus invenire — (152v) maius inter observationes temporis spatium exigit quam vitam hominis sit. Laudetur nomen tuum, qui me hoc opus in die foelicitatis nostrae absolvere voluisti, Christe benedicte, quod in die quoque foelici tuae incarnationis incoepi absolviq[ue] novem id. mensibus, traductionem vero textus mensibus novem diebus duo et viginti, quovis rei testis gravissimus est, ipse pontifex summus, qui volumen traducendum mense Martii tradidit et mense Decembris anni eiusdem et librum traductum et commentarios vidit absolutos propter quos postea me destruxit, ut scaedule ostendunt, per ignorantissimum Iacobum Cremonensem appositae. Ad papam Nicolaum quintum. <N>emini,

beatissime pater, quando sanctitati tuae obtuli libros ptolomeici — meum adversus ignotantes honorem defendere. Laud Deo. Io. Rasel [with a 'e' written above 'a', for 'Raesel' or 'Resel'?].

= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.1.19)**. Preface to Iacopo Antonio Marcello, 1r–1v; Introduction, 1v–8r; Book I, 8r–22r; II, 22r–39r; III, 39r–48r; IV, 48r–54v; V, 54v–72v; VI, 72v–88r; VII, 88r–89r; VIII, 89r–92r; IX, 92r–106r; X, 106v–115r; XI, 115r–123r; XII, 123v–134r; XIII, 134v–152v; colophon, 152v; George of Trebizond, letter to Nicholas V, 152v–153r (this letter, in which George complains about Iacobus Cremonensis's ignorance, is edited by J. Monfasani, *George of Trebizond: A Biography and a Study of His Rhetoric and Logic*, Leiden, 1976, 351–52). No glosses.

Oxford, Bodleian Library, Laud. Misc. 644

s. XIII² (copied between 1268 and 1277, cf. f. 2r–7v and 14r, and perhaps precisely in 1273–1274, cf. Watson; note by the scribe listing the roots of the planets for 1277 'perfecto', f. 176va). **Or.:** France (?), perhaps diocese of Bayeux (cf. f. 2r–7v) or Paris (cf. f. 13r); mention of London and York f. 220r. **Prov.:** Charles of Orléans (d. 1465); 'De Sauzay' (f. 226v, 16th-c. hand).

Parchment, 227 f., a single hand or two similar hands, numerous painted initials.

Scientific texts, mainly astronomy, computus, astrology and arithmetic: two circular figures added by a 16th-c. hand, the first containing a short onomantic text 'Si vis scire planetam tuum vel alicuius hominis, computa nomen suum...' and the second the table of contents of the volume 'In hoc libro continentur tabulae astronomicae...' (1r); Pseudo-Robert Grosseteste, *Kalendarium*, with martyrology for Bayeux prior to 1277 (2r–7v); 'Incipit canon super chilindrum. Accepturus horas cum chilindro...' (7v); Pseudo-Bede, *De signis coeli* (8ra–10vb); solar tables (11r–13v), including 'Hac (!) tabula docet Solis declinationem in qualibet die anni in civitate Parisius' (13r); *Tabula Gerlandi* (14r–15r, with table f. 14r marked 'hic' for the years 1268–1295); Toledan tables with canons (16ra–101v); 'Incipiunt demonstrationes canonum tabularum. Kardaga est portio circuli...' (102ra–114rb); 'Nota quod si aliquis numerus sit multiplicandus...' (114rb–115vb); *Theorica planetarum Gerardi* (115vb–119vb); 'Incipit de latitudinibus 5 planetarum. Orbes differentes stellarum erraticarum...' (119vb–120va); 'Incipit tractatus de proportionibus et fractionibus. Si fuerint 4 numeri proportionales...' (120va–123vb); riddle (123vb); 'Incipit tractatus algorismi de fractionibus. Cum multos de numeris tractatus vidisses...' (124ra–125ra); 'Quicumque voluerit facere almanac...' (125ra–125rb); canons of Toledan tables (125rb–127rb); 'Quoniam dicitur a Boetio in principio arismetice...' (127va–131ra); Boethius, *De arithmetica*, with comm. (131rb–139ra); Boethius, *De musica*, with comm. (139ra–142rb); Robert Grosseteste, *De sphaera* (143ra–147va); Robert Grosseteste, *Computus* (147vb–164r); Albumasar, *Flores* (165ra–175ra); *Canones super tabulas Humeniz philosophi summi Egiptiorum* (175ra–176va) and tables (177r–190r); table for computing the zodiacal position of the Moon, with canon (190v); Alfraganus, *De scientia astrorum*, tr. Gerard of

Cremona (191ra–207rb); Robert Grosseteste, *De lineis, angulis et figuris* (207va–208vb); Robert Grosseteste, *De natura locorum* (208vb–210rb); **Ptolemaica** (210rb–210vb); Campanus of Novara, *De quadrante* (211ra–213rb); canons of astronomical tables ‘Quelibet pars aliquota totius fractio...’ (213rb–218vb); ‘Investigantibus nature chilindri compositionem...’ (219ra–220vb, with mention of London and York f. 220r); Roger of Hereford, *De quatuor partibus iudiciorum astronomie* (221ra–224ra); ‘Liber de fructibus planetarum. Cupientibus fructum planetarum primo scire oportet quis sit eorum ordo...’ (224ra–226ra); table: elections from the aspects of the Moon with the other planets (226r); ‘Cum planeta est sub alterius radiis...’ (226va–226vb, abrupt end at the bottom of f. 226vb); table: elections from the aspects of the Moon with the other planets (227v, 16th-c. hand). Blank: 1v, 15v, 142v, 164v, 227r.

Bibl. H. O. Coxe, *Bodleian Library. Quarto Catalogues*, II: *Laudian Manuscripts*, Oxford, 1858 (reprinted 1973), 465–68; Saxl 1915–1953, III.1, 386–93; Pächt/Alexander 1966–1973, I, 41 (no. 529); Watson 1984, 102 (no. 622); Meyer/Huglo 1992, 1992, 122–23; Pedersen 2002, I, 147–48; G. Ouy, *La librairie des frères captifs. Les manuscrits de Charles d’Orléans et Jean d’Angoulême*, Turnhout, 2007, 97–98; Blume/Haffner 2012–2016, I.1, 403–09; Lohr/Nothaft 2019, 35–36.

210rb–210vb ‘Hic est prohemium Ptolomei in Almagesti. Quidam princeps nomine Albugaſe in libro suo quem scientiarum electionem et verborum nominavit — que in uniuscuiusque earum principio dicam.’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, preface only.
No glosses.

Oxford, Bodleian Library, Rawlinson B.167

s. XIV^{ex} (f. 206–230).

Parchment and paper, 231 f. Composite MS made of numerous parts of various origins and dates, from the 14th to the 17th c., of which f. 206–230 form one unit copied by a single sloppy hand and missing several folia at the beginning, between f. 229 and 230, and at the end.

Natural philosophy, astrology and divination (f. 206–230): end of an unidentified text ‘... est narratio rei vere et verisimilis. Fabula est narratio rei non verisimilis...’ (206r–209v); **Ptolemaica** (209v–230r); *Sortes XII patriarcharum*, end gone (230r–231v).

Bibl. G. D. Macray, *Catalogi codicum manuscriptorum Bibliothecae Bodleianae*, V.1: *Viri munificentissimi Ricardi Rawlinson, J.C.D., codicum classes duas priores ad rem praecipue et topographicam spectantes complectens*, Oxford, 1862, col. 509–12.

209v–230r ‘De XII signis que sunt in zodiaco et de sexu illorum et de aliis conditionibus eorundem. Signorum alia sunt masculini generis, alia feminini — prospiciantque se in quarto vel octavo vel decimo, scias te ipsam nunquam habiturum. Explicit iste tractatus.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**, truncated due to several folia missing between f. 229 and 230. No glosses.

Oxford, Bodleian Library, Rawlinson D.893

s. XIIIⁱⁿ (f. 67, the rest of the MS variously dates from the 10th to the 17th c.). **Or.:** Italian hand (f. 67). **Prov.:** owner's (?) note dated 1626, now mostly illegible, at the top of f. 67v.

Parchment, 169 f. 'A collection of fragments of MSS, many of them being leaves formerly used as fly-leaves by book-binders' (Macray). F. 67 is one of such leaves, copied in a single hand.

The Ptolemaic section (f. 67ra–67vb) is surrounded by unrelated pieces, namely a 14th-c. fragment of a treatise of logic (66ra–66vb) and a 14th-c. fragment of an astrological text (68r–69v).

Bibl. G. D. Macray, *Catalogi codicum manuscriptorum Bibliothecae Bodleianae*, V.4: *Viri munificentissimi Ricardi Rawlinson, J.C.D., codicum classis quartae partem alteram (libros sc. miscellaneos sexcentos et quinquaginta sex) complectens*, Oxford, 1878, 75–87; Georges (forthcoming).

67ra–67vb ' <latitudi>nis invenimus augmentum suprapositum, id est supra medium cursum positum superius secundum Abrachis — quod totum quod videtur in unoquoque eorum est equale, id est modorum...'
 = **Gerard of Cremona**, *Notule Almagesti* (C.1.3), fragment IV.3–5, due to missing folia on both ends. Gloss by the scribe f. 67vb.

Oxford, Bodleian Library, Savile 17

s. XIV¹. **Or.:** England.

Parchment, 201 f., one main hand copied f. 2–184, decorated initials. Folia are missing between f. 45–46 and between f. 174–175.

Computus, astronomy, arithmetic, astrology: table of contents, medieval (1r); computus table (1v); Petrus de Dacia, *Kalendarium* (2r–10r); circular diagram on planetary aspects (10v); Pseudo-Messahallah, *De compositione astrolabii* (11r–21v); Bartholomeus Anglicus, *De proprietatibus rerum*, excerpt from Book VIII 'De spera celi. Spera celi ut dicit Ysidorus est species quedam in rotunditate formata...' (22v–45v); Robert Grosseteste (?), *De impressionibus aeris* (46r–49v, beginning gone); *Theorica planetarum Gerardi* (50r–60r); Alcabitus, *Introductorius* (60v–94r); **Ptolemaica** (94r–94v); Sacrobosco, *Algorismus*, with comm. (94v–116r); Campanus of Novara, *De quadrante* (116r–122r); Sacrobosco, *De sphaera* (122r–140v); Sacrobosco, *Computus* (141r–174r); Alexander of Villedieu, *Massa compoti* (175r–184v, beginning gone); computus 'Filius esto Dei celum bonus accipe gratis...' (185r–186r, added); added notes (186v); Sacrobosco, *Algorismus*, with comm. (192r–201v, added). Blank: 22r, 174v (incomplete astronomical diagram), 187–91.

Bibl. Madan/Craster 1922–1937, II.2, 1104–1105 (no. 6563); Pächt/Alexander 1966–1973, III, 56 (no. 614).

94r–94v 'Cum projectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiacionis equate. Explicit Alkabizius, id est introductorium iudiciorum astronomie.'
 = **Pseudo-Ptolemy**, *Liber projectionis radiorum stellarum* (B.6). No glosses.

Oxford, Bodleian Library, Savile 26

s. XVI² (1568, cf. '27 Octo<bris> 1568' f. 3r and '8^o Novembris 1568' f. 78v). **Or.:** autograph of Henry Savile.

Paper, 91 f., a single hand. The MS belongs with MSS Savile 27 and 28 (see).

Ptolemaica (single text), except for Savile's notes and tables, mainly mathematical (1r, 2r–2v, 79r–81v). Blank: 1v, 82r–90v, 91r–91v (except for scattered notes f. 90v and 91v).

Bibl. Madan/Craster 1922–1937, II.2, 1108–1109 (nos 6572–74); Goulding 1999, 134–35.

3r–78v 'Ptolemaeus. Praeclare mihi videntur, Syre, seniores (*corr. ex doctiores*) philosophi contemplantem philosophiae partem ab activa separasse... Theon. Assiduis auditorum adhortationibus compulsus, fili Epiphanie, ut aliquid de iis quae difficiliora in mathematica Ptolemaei — et in recta sphaera finientem. Finis.'
= **Theon of Alexandria, (*Commentum in Almagest*), tr. Henry Savile (C.1.30.3)**, Book I. The text is followed by four lines in Latin and Greek referring to Theodosius's *Spherica*. Interlinear and marginal corrections, including in Greek, by Savile.

Oxford, Bodleian Library, Savile 27 [Plate 30]

s. XVI² (1568, cf. 'H.S. 1568, 11 Novemb<ris>', f. 1r). **Or.:** autograph of Henry Savile.

Paper, 90 f., a single hand. The MS belongs with MSS Savile 26 and 28 (see).

Ptolemaica (single text), except for Savile's notes and diagrams (88v–90v, inner back cover). Blank: 1r–1v (except for a few notes and an empty circle f. 1r).

Bibl. Madan/Craster 1922–1937, II.2, 1108–1109 (nos 6572–74); Goulding 1999, 136.

2r–88r 'Liber secundus. Ptolemaeus. Cum pertractaverimus in primo Syntaxeos libro ea omnia quae praemittenda... Theon. Cum pertractaverit Ptolemaeus in primo Syntaxeos ea quae de partibus universi generaliter...'
= **Theon of Alexandria, (*Commentum in Almagest*), tr. Henry Savile (C.1.30.3)**, Book II, 2r–43r; III, 43v–82r ('Cabasillaus', 44r); VII.1–4 (Ptolemy's text only), 82v–87v; and VIII.2 (Ptolemy's text only), 88r. Corrections by Savile.

Oxford, Bodleian Library, Savile 28

s. XVI² (1568). **Or.:** autograph of Henry Savile.

Paper, 85 f. foliated 1–29 and 1–56, a single hand. The MS belongs with MSS Savile 26 and 27 (see).

Astronomy and mathematics: **Ptolemaica (1r–28r)**; Henry Savile, *Auctores mathematici* (28v–II/38v, with index II/49v–50v); mathematical notes by Henry Savile (II/44v–45v, 47v, 51v–56v). Blank: II/39r–44r, 46r–47r, 49r, 51r. F. 48 is torn out.

Bibl. Madan/Craster 1922–1937, II.2, 1108–1109 (nos 6572–74); Goulding 1999, 136–38.

1r–28r ‘Ptolemaeus. Lib<er> 5. Cap<itulum> primum de fabrica organi astrolabici. Quantum igitur ad coniunctiones et plenilunia pertinet — a puncto verticis ad Lunam.’
 = **Theon of Alexandria**, (*Commentum in Almagesti*), tr. **Henry Savile** (C.1.30.3), Book V. Corrections by Savile.

Oxford, Bodleian Library, Savile 29

s. XVI² (f. Ir: ‘Anno domini 1570, mense Octobri’; f. 2r: ‘1570, 10 Octobr<i>’). **Or.:** autograph of Henry Savile.

Paper, III + 181 f., a single hand. The MS belongs with MSS Savile 31 and 32 (see).

Henry Savile’s lectures and teaching notes on mathematics and astronomy: notes ‘Ad fol<ium> 65^{um}’ (1v); lectures on the usefulness of mathematics (2r–8r), on the seven mathematical sciences (8r–25r) and on the history of mathematics from Adam to Ptolemy (29r–65v, partial ed. Goulding, 144–60); *Ptolemaica* (65v–140v); ‘Mathematicorum errores’ (173v–174v); ‘Lectio 12a. 1. Reddit superioris denominationis...’ (176v–177v). Blank: Iv–IIIv, 1r, 25v (except for two lines in Greek), 141–173r, 175r–176r, 178r–181. F. 26–28 are torn out.

Bibl. Madan/Craster 1922–1937, II.2, 1109 (nos 6575–78); Goulding 1999, 125–33.

65v–140v ‘Mathesis unde dicta...’
 = **Henry Savile**, (*Annotationes in Almagesti*) (C.1.33), Books I–II. I, 65v–106r; II, 106r–138r. F. 89, 98, 111v, 123–126 and 128r are blank. Numerous corrections by Savile.

Oxford, Bodleian Library, Savile 31

s. XVI² (1570–1571). **Or.:** autograph of Henry Savile.

Paper, IV + 91 f. (f. I–II are modern additions and f. III the original parchment binding of the volume), a single hand. The MS belongs with MSS Savile 29 and 32 (see).

Ptolemaica (single text), except for scattered notes (IVr) and table of calendar conversion (IVv). Blank: I–III, 60–91.

Bibl. Madan/Craster 1922–1937, II.2, 1109 (nos 6575–78); Goulding 1999, 133.

1r–59v ‘In librum tercium...’
 = **Henry Savile**, (*Annotationes in Almagesti*) (C.1.33), Books III–V and VII. III, 1r–16r; VII, 21r–27r; IV, 32r–39r; V, 40r–59v. F. 17r contains notes on time conversion. F. 3r, 6v–7v, 10v, 16v, 17v–20v, 27v–30 (except short note over two lines f. 27v), 31 (except short note f. 31r), 33r, 39v, 41r, 43r, 45v–50v, 52v–53r and 56r are blank. Numerous corrections by Savile.

Oxford, Bodleian Library, Savile 32

s. XVI² (1570–1571). **Or.:** autograph of Henry Savile.

Paper, III + 137 f., a single hand. The MS belongs with MSS Savile 29 and 31 (see).

Ptolemaica (single text). Blank: I–III, 74–137.

Bibl. Madan/Craster 1922–1937, II.2, 1109 (nos 6575–78); Goulding 1999, 134.

1r–73v ‘Liber 9, cap<itulum> 1. De ordine sphaerarum septem planetarum...’
 = **Henry Savile**, *(Annotationes in Almagesti)* (C.1.33), Books IX–XIII.
 IX, 1r ff. (book division unclear between Books IX and XII, as noted by
 Goulding); XIII, 54r–73v. F. 4r, 6v, 10v, 22v–23r, 32r, 34r, 35v–36r,
 38r–39r, 43, 44v–45r, 47r, 51v, 53, 57v, 70r and 72r are blank. Numerous
 corrections by Savile.

Oxford, Bodleian Library, Savile 41

s. XVI^{ex}–XVII. **Or.:** Oxford, collection of documents perhaps assembled by John Greaves (1602–1652), who copied the last part of the MS (f. 119–162).

Paper, 166 f., several hands.

Collection of texts, letters and notes in Latin and English dealing with astronomy, geometry, arithmetic, physics and non-scientific topics. The **Ptolemaica** (2r–7r) form one gathering copied in a single hand. The MS also includes (23r–26v) an autograph letter from Joseph Scaliger to Henry Savile dated April 1595 concerning some geometrical problem (ed. Glucker).

Bibl. Madan/Craster 1922–1937, II.2, 1111 (no. 6587); J. Glucker, ‘An Autograph Letter of Joseph Scaliger to Sir Henry Savile’, *Scientiarum Historia* 6 (1966), 214–24: 214–16.

2r–7r ‘Κλαυδίου Πτολεμαίου περὶ ὑποθέσεων τῶν πλανομένων. Hypotheses, ὁ
 Syre, coelestium motuum in iis quidem quas de mathematicis scripsimus
 commentariis, oratione explicare conati sumus — Stella tandem a boreo
 luyimite obliqui circelli in consequentia mundi partibus. Finis.’
 = **Ptolemy**, *De hypothesisibus planetarum*, tr. **Matthias Bergius** (A.3.1).
 A couple of corrections by the scribe f. 3v.

Oxford, Bodleian Library, Savile 99

s. XVII². **Or.:** Oxford, the MS was copied on MS $\rightarrow$ Oxford, SJC, 37. **Prov.:** Charles Bernard (d. 1710), surgeon, whose library was sold on 22 March 1711; Stephen Peter Rigaud, Savilian professor at Oxford from 1810 to 1839 (cf. f. 1r: ‘S. P. Rigaud, April 29, 1824’); acquired by the Bodleian Library in 1884.

Paper, 186 f., a single neat hand.

Ptolemaica (single text), except for Valentin Nabod's horoscope (185v) — with the wrong date 14 February 1527 — and Kenelm Digby's letter to John Barkham on 17 July 1640 (186r), as in MS $\rightarrow$ Oxford, SJC, 37. F. 1r–1v contains Rigaud's biographical notes about Valentin Nabod. Blank: 2–7, 186v.

Bibl. F. Madan, *A Summary Catalogue of Western Manuscripts in the Bodleian Library at Oxford*, V, Oxford, 1905, 191–92 (no. 26167).

8r–185r 'Prooemium deest. Quod futurorum per astronomiam praecognitio sit quaedam ars et quousque progrediatur. Cap. I. Facile patescit, breviterque perspicuum fieri potest omnibus quod ex aetherea et externa natura vis quaedam diffundatur — Itaque hic et in hoc termino noster quoque interpretandi commentandique labor finem iam accipiat.'

= Valentin Nabod, *In Claudii Ptolemaei Quadripartitae constructionis apotelesmata commentarius novus et eiusdem conversio nova* (C.2.30). Corrections by the scribe.

Oxford, Bodleian Library, Selden supra 76

s. XIII¹. **Or.:** England. **Prov.:** probably Winchester by the early 16th c. (f. 46v: list of 38 monks of St Swithun, Winchester, added in an early-16th hand).

Parchment, 126 f., one main hand, decorated initials.

Astrology, astronomy, alchemy and various: Roger of Hereford, *De quatuor partibus iudiciorum astronomie*, incomplete (3r–7r); astrological tables: parts and essential dignities (7r–10r); Roger of Hereford, *Liber de tribus generalibus iudiciis astronomie* (10v–19v); *Liber de motibus planetarum* (20r–28r); Algorismi [al-Khwārizmī], astronomical tables, excerpts (28r–29v); canons of astronomical tables and astrolabe chapters 'Doctrina equationis omnium planetarum. Primo sumantur anni collecti...' (31r–40v), including **Ptolemaica** (39v–40v); political philosophy 'Liber de institutione universitatis. Omni homo naturaliter desiderat...' (41r–45v); Alkindi (?), *De radiis* (47r–60v); 'Liber graduum. Quoniam omnis inequalitas...' (61r–69v); 'Liber de vulgari iudicio sermonis. Quoniam plurimi hominum vulgari rerum intellectu...' (69r–72r); recipes of alchemy (74r–109r); Thetel, *Liber sigillorum* (109v–112v); nine verses on stones 'Fert asinus lapidem precio...' (112v–113r); notes of magic (?), faint or erased (113v–115r); alchemy 'Michi videtur dicere quod annussadir dum sublevatur aceto...' (116r–125r). Blank: 1–2, 30, 46r–46v (except notes f. 46v), 72v–73v, 115v, 125v–126v.

Bibl. Madan/Craster 1922–1937, II.1, 644–45 (no. 3464); M.-T. d'Alverny, F. Hudry, 'Al-Kindi: De radiis', *AHDLMA* 41 (1974), 139–260: 195–96; Pedersen 2002, I, 150; Nothaft 2018, 174–75.

39v–40v 'Ptolomeus igitur incedens Mercurii vestigiis in libro suo qui vocatur Almagesti de motu sic ait: Ait enim omnis motus aut de puncto aut ad punctum — absque omni errore a docto artifice perpenditur.'

= Pseudo-Ptolemy, *Liber de compositione universalis astrolabii* (B.2), preface only. No glosses.

Oxford, Bodleian Library, Selden supra 78

s. XIVⁱⁿ (probably in or around 1304, cf. note added in the margin of f. 86v: 'Nota quod anno domini 1303 perfecto, 8 die Maii, fuerunt anni...'; added note in the margin of f. 175v about an eclipse on 11 August 1291). **Prov.:** 'Valentyne Dale doctor of the Sybyll Lake...', 16th-c. hand (f. 177v).

Parchment, 179 f., several hands, one of which copied f. 1–50 and 86–112, decorated initials, homogeneous decoration throughout.

Astrology and astronomy: **Ptolemaica** (1r–25r); Alcabitus, *Introductorius* (25v–50v); Pseudo-Messahallah, *De compositione astrolabii* (51r–70r); Johannes de Harelbeke, *Tractatus de spera solida* (71r–85r); canons of Toledan tables (86r–106v); *Theorica planetarum Gerardi* (106v–112v), followed by astronomical diagrams (112v–113v); Toledan tables (114r–177r). Blank: 70v, 85v, 177v (except owner's note), 178–79.

Bibl. Madan/Craster 1922–1937, II.1, 645–46 (no. 3466); Lemay 1999, I, 315–17; Pedersen 2002, I, 150.

1r–25r 'Dicit Ptholomeus: Iam scripsi, Gesule (!), tibi libros de hoc quod operantur stelle in hoc seculo... Propositio prima. Scientia stellarum ex te et illis est. Non debet astrologus dicere rem specialiter sed universaliter... Mundanorum mutatio ad hoc et ad illud corporum celestium... Doctrina stellarum ex te que ex illis est. Nec est doctrina mei ut proferet formam... (1v) Idem dicit Ptho<lome>us, ex te et illis, significat quod qui res futuras scire desiderat — et ego Deum precor ut te dilligat. Et perfecta est huius libri translatio 17 die mensis Martii, 12 die mensis Gumedii secundi anno Arabum 530. Expliciunt centum verba Ptholomei.'
 = Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1), with the propositions also given in the 'Mundanorum' version (C.3.1.3) and in Adelard of Bath's translation (B.1.1) (= 'threefold' version). From v. 68 onwards, only Plato's version is given. No glosses.

Oxford, Bodleian Library, Tanner 192

s. XIV². **Or.:** France (Pächt/Alexander) or southern Iberian peninsula (King); notes in Portuguese f. 7v.

Parchment, 124 f., one main hand copied f. 1r–118r, decorated initials.

Computus, arithmetic and astronomy: astronomical calendar (1r–6r); *Tabula Gerlandi* (6v–7v), with canons (8ra–9ra); Balduinus de Mardochio or Marrochio, *Computus manualis* (9ra–18ra); Ricardus Anglicus (?), *Algorismus minutiarum* (18rb–22va); 'Pro astrolabio faciendo primo fac circulum Capricorni...' (22va–23vb); Sacrobosco, *Algorismus* (24ra–30rb); Sacrobosco, *De sphaera* (30va–43ra); Sacrobosco, *Computus* (43ra–67ra); Robertus Anglicus, *Quadrans vetus* (67ra–73vb), with solar tables 1296–1299 (74r–76r); Pseudo-Messahallah, *De compositione astrolabii* (76va–95vb); *Theorica planetarum Gerardi* (95vb–103rb); Pseudo-Thebit Bencora, *De motu octave spere* (103rb–106vb); **Ptolemaica** (106vb–107vb); Prophatius Judeus,

Quadrans novus (108ra–118rb); fainted notes (118v); *algorismus*, beginning gone (119r–122r); geometrical figures (122v–123r); computus tables (123v–124v).

Bibl. A. Hackman, *Catalogi codicum manuscriptorum Bibliothecae Bodleianae*, IV: *Codices viri admodum reverend Thomae Tanneri, S.T.P. episcopi Asaphensis complectens*, Oxford, 1860, 630–32; Pächt/Alexander 1966–1973, I, 49 (no. 629); D. A. King, *The Ciphers of the Monks. A Forgotten Number-Notation of the Middle Ages*, Stuttgart, 2001, 129–30.

106vb–107vb ‘Incipit liber Thebit Bencorath de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — Gradus vero gressus stelle est gradus cum quo mediatur celum...’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**, incomplete, the text breaks off after the first sentence of § 14 in Carmody’s edition and the four following lines have been erased. A couple of corrections by the scribe and a few marginal notes by another hand.

Oxford, Corpus Christi College, 101

s. XV² (1472 for f. 201–251). **Or.:** Poland, perhaps the University of Cracow; f. 201–251 copied by Jerome of Szprotawa (f. 251va: ‘per me Ieronimum de Sprottava anno domini 1472’). **Prov.:** Oxford, Corpus Christi College, by 1589.

Paper, I + 252 f., several contemporary hands, painted initials at the beginning of each section, homogeneous decoration throughout.

Astrology: table of contents, 15th c. (Iv); ***Ptolemaica* (1ra–172vb and 173ra–191ra)**; Hermes, *Centiloquium* (191rb–194ra); *Capitula Almansoris* (194rb–197vb); Bethen, *Centiloquium* (198ra–200rb); Alubater, *De nativitatibus* (201ra–251va); letter of Casimir IV of Poland (1447–1492) to the University of Cracow (252r). Blank: Ir, 200v, 252v.

Bibl. Coxe 1852, II, *Codices MSS. Collegii Corporis Christi*, 35–36; Watson 1984, 127–28 (no. 772); Lemay 1999, I, 259–61; Thomson 2011, 49–50.

1ra–172vb ‘Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (1va) Prohemium Hali in Quadripartitum sapientis Ptholomei. Verba que dixit sapientissimus Ptholomeus in arte iudiciorum astronomie... (3va) Capitulum primum de diffinitione astronomie et astrologie. Res, o Mizori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt secunde — (168ra) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Et sic est finis. (168rb) Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quidquid locuti sumus in eis, et prima est nativitas mea — (172va) hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Deo gratias’ (followed by notes and chapter index).
= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**. Translator’s preface, 1ra–1va; Haly’s preface, 1va–3rb; I, 3va–48va; II, 48va–88ra;

III, 88ra–136vb; IV, 136vb–168ra; Haly's appendix, 168rb–172va. The text is followed by a horoscope with incomplete planetary positions and a list of 20 parts with their positions, 172va (same in MS[→]Vienna, ÖNB, 5288), and a chapter index of the complete text, 172va–172vb. A few marginal notes by at least one contemporary hand.

- 173ra–191ra 'Mundanorum ad hoc vel ad illud mutatio corporum celestium... Dixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... (173rb) Verbum primum. Scientia stellarum ex te et ex illis est. Astrologus non debet dicere rem specialiter... Hali: Quod dixit Ptolomeus, ex te et ex illis, significat quod qui res futuras prenoscere sive prescire desiderat — (190ra) ex aliqua civitatum ab eiusdem climatis. Prima apositio (?) Hali: Ptholomeus dixit quod stelle cum caudis sunt novem — (190rb) in regibus et divitibus apparebit. Hali aliud commentum in aliam translationem. Iam patefecit Aristotiles in libro — (190va) acciditque tunc in Egipto quicquid dixit Ptolomeus. Sequitur istius alia translatio. Dixerunt Ptolomeus et Hermes quod locus Lune — et hoc fuit expertum. Conclusio Hali. Hoc est quod ego malui de expositione huius libri — et ego Deum precor ut te diligat. Et perfecta est huius libri translatio 10 die mensis Martii, XII die mensis Gumedi secundi anno Arabum. Explicit Centiloquium Ptolomei Phelubensis (!) astrologi peritissimi etc. Ptholomeus.'
- = **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium***, tr. **Plato of Tivoli (C.3.1.1)**, opening with the proposition of v. 1 in the 'Mundanorum' version (C.3.1.3). The sequence of chapters at the end is as follows: proposition of v. 100, 189vb–190ra; Pseudo-Ptolemy's *De cometis* (B.4), attr. Hali, 190ra–190rb; commentary on v. 100, 190rb–190va (see below); Pseudo-Ptolemy's *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5), 190va–191ra (see below); last paragraph, 191ra. Glosses by a contemporary hand.
- 190ra–190rb 'Prima apositio (?) Hali: Ptholomeus dixit quod stelle cum caudis sunt novem — in regibus et divitibus apparebit.'
- = **Pseudo-Ptolemy, *De cometis* (B.4)**, attr. Hali, as part of the *Centiloquium* (see above). No glosses.
- 190va–191ra 'Sequitur istius alia translatio. Dixerunt Ptolomeus et Hermes quod locus Lune — et hoc fuit expertum.'
- = **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). No glosses.

Oxford, Corpus Christi College, 224

s. XIIIⁱⁿ (for f. 42–141; f. 2–41 and 142–190 are from the 12th c.). **Prov.:** St Mary's Abbey of York by the 14th c. (f. 2r: 'Liber beate Marie Ebor'); John Dee; Brian Twyne (d. 1644), who bequeathed the MS to Corpus Christi College.

Parchment, 190 f. Composite MS made of four parts bound together in the 13th c. (f. 2–41, 42–113, 114–141 and 142–190). The third part, containing the Ptolemaic section, is in a single hand.

Scientific texts: two tables of contents of the whole MS (inner front cover, late 13th-c. hand; and f. 1v, 14th-c. hand); Boethius, *De arithmetica* (2r–41v); Alfraganus, *De scientia astrorum*, tr. John of Seville (42r–69r); Boethius, *De musica*, Books I–IV (69v–113r); Euclid, *Elementa*, version ‘Adelard II’ (114r–138v); **Ptolemaica** (139r–141r); Boethius, *De musica* (142r–188v). Blank: 1r, 113v, 141v, 189–190.

Bibl. Coxe 1852, II, *Codices MSS. Collegii Corporis Christi*, 89; Roberts/Watson 1990, 127 (M167); Busard/Folkerts 1992, I, 68; *CBCM*, I, 225; Thomson 2011, 109.

139r–141r ‘Propositiones planisphaerii Ptolomei cum quibusdam a Maslem quodam... [title added in upper margin by a 16th-c. hand]. Quoslibet duos circulos equidistantes recto in spera corporea — (140v) per polum zodiaci transire necesse habet. Expliciunt propositiones. Si a termino unius diametri circuli recti ducatur linea recta — in spera potencialiter ostendit.’
= **Ptolemy, *Planisphaerium*, tr. Hermann of Carinthia (A.6.1), *Propositiones planisphaerii*** only (with the two additional chapters). No glosses.

Oxford, Corpus Christi College, 233

s. XIV (f. 21–80). **Or.:** England. **Prov.:** St Albans Abbey (f. 21–80, cf. f. 21r: ‘Liber sancti Albani de libraria conventus ex dono abbatis Iohannis septimi [John of Wheathampstead, abbot 1420–1440 and 1450–1464]...’); John Dee in 1556; Brian Twyne (d. 1644), who bequeathed the MS to Corpus Christi College.

Parchment, 150 f., composite MS made of eight parts assembled by Brian Twyne, or perhaps already by John Dee. Part IV (f. 21–80) is itself composite, comprising three elements (f. 21–64, 14th c, one hand; f. 67–73, 13th and 14th c., two hands; f. 74–80, 14th c., one hand), which originally belonged to a more complete MS (see below).

Medicine, astronomy and magic (f. 21–80): *Questiones Salernitanae* (21r–31v); **Ptolemaica** (32r–64r); added table of contents, late medieval hand (65v); Euclidis, *Elementa*, excerpts (66r–66v); *Ars notoria* (67ra–72va); Pseudo-Aristotle, *Secretum secretorum*, excerpt (72va–73va); Theodosius, *Spherica*, excerpts (74r); Jordanus de Nemore, *De plana spera* (75r–80v). Blank: 64v–65r, 74v. The table of contents f. 65v (ed. Thomson, 117) shows that this part (f. 21–80) originally contained more texts and in a different order: ‘Ars ...le (?) que dicitur saphea. Tractatus astrolabii ... (?) eius motus. De cognitione ... (?) commune. De significatione rei occulte. De aeris dispositione. Tabule pro almanac. Ars notaria. Epistola Aristotelis de cognitione sanitatis. Compotus Rugerii Hereford. Compositio astrolabii. Dies notata. Cirurgia medicine non satis n... Planisphaerium. Alfraganus Nu (?). Questiones de geometricis. Questiones ... (?) naturalium. Geber in Almagesti tractatum. Ymagines solimale desunt.’ The other parts of the MS, dating from the 13th to the 15th c., contain texts dealing with grammar (1–20), philosophy (81–88 and 127–50), astronomical tables (89–114) and astrology (115–25).

Bibl. Coxe 1852, II, *Codices MSS. Collegii Corporis Christi*, 95–96; Roberts/Watson 1990, 126 (M153); Pedersen 2002, I, 150–51; Thomson 2011, 117–19.

32r–64r ‘Geber in Ptolomaeum [title added in upper margin by a later hand]. Verba Geb<er> filii Aflau Ispalensis [title added by yet another hand in lower margin]. Scientia species habet quarum melior post scientiam — De rebus particularibus que sequuntur per scientiam elevationum. Cum ergo volueris scire longitudinem diei...’ (a later hand added ‘Quod in hiis 33 foliis de commento Gebir scribitur continet in exemplari undecim folia et dimidium, et remanens 53 folia que non scribuntur, et sic non habetur hic nisi quasi sexta pars et parum ultra totius commenti Gebir super Almagesti’).
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 32r–34v; I, 34v–54v; II, 54v–64r. The text breaks off in the middle of a sentence in the second half of Book II. Glosses by the scribe and by at least one later medieval hand.

Oxford, Corpus Christi College, 283

s. XI^{ex}–XIIⁱⁿ (f. 66–113). **Or.:** northern France, perhaps Chartres (f. 66–113). **Prov.:** the whole MS belonged to William de Clara, monk of St Augustine of Canterbury, who annotated it in 1277 (see Thomson, 147); St Augustine of Canterbury; John Dee before 1583; donated to Corpus Christi College by Christopher Wase, fellow of the college, in 1704.

Parchment, 174 f., composite MS made of seven parts bound together by 1277, the third of which (f. 66–113), copied by one main hand, is bound in disorder and should read f. 66–81, 82–89, 98–113 and 90–97, with a lost quire after f. 81 and after f. 113. The other parts consist of f. 1–5 (12th and 13th c.), 6–49 (13th c., France), 50–65 (13th c., France), 114–45 (12th c., England); 146–55 (13th c., France); 147–74 (13th c., Paris).

Astronomy (f. 66–113): **Ptolemaica (66r–81v)**; (added by a late 12th-c. hand) introduction to astronomy ‘In principio huius artis requiruntur ea que in ceteris artibus requiri solent...’ (81v, beginning only, due to the lost quire); compilation from the old corpus on the astrolabe, including chapters from *De mensura astrolapsus*, *De mensura astrolabii*, *Sententie astrolabii*, *De utilitatibus astrolabii* and Ascelinus Teutonicus’s *Compositio astrolabii* (82r–113r); Isidore of Seville, *Etymologiae*, III.28–50 (113r–113v). The other parts of the MS contain scientific and various texts: notes of arithmetic and music (1r–5r); Cicero, *De natura deorum* (6r–37r); Cicero, *Epistolae* (37v–45v); Gregory the Great, *Epistolae* (45v–49v); Euclid, *Elementa*, version ‘Adelard II’, Books X–XI (50r–65v); Algorismi [al-Khwārizmī], astronomical tables (114r–145r); Pseudo-Aristotle, *Secretum secretorum*, excerpt (146r–146v); various introductions to philosophy by Parisian masters of the middle of the 13th c. (146v–153r); various documents issued by the University of Paris between 1252 and 1266 (f. 156r–160v); sermons (160r–161v); text on the rainbow (162r–162v); Euclid, *De visu* (163r–165v); Euclid, *De speculis* (166r–168v); sermon notes (169r–171r).

Bibl. Coxe 1852, II, *Codices MSS. Collegii Corporis Christi*, 221–24; Watson 1984, 130 (no. 782); Burnett 1987, 187 (no. 90); Roberts/Watson 1990, 124 (M136); Busard/Folkerts 1992, I, 68–69; Pingree 1997, 10–11; C. Burnett, ‘Avranches, B.M. 235 et Oxford, Corpus

Christi College 283', in *Science antique, science médiévale (Autour d'Avanches 235). Actes du colloque international (Mont-Saint-Michel, 4–7 septembre 1998)*, eds L. Callebat, O. Desbordes, Hildesheim-Zürich-New York, 2000, 63–70; Pedersen 2002, I, 151–52; Barker-Benfield 2008, II, 1019–1025 (BA I.1009); Thomson 2011, 143–47.

66r–81v 'Incipit preceptum canonis Ptolomei. Intellectus climatum polis episeme requires si inveneris platos civitatis — requires superiorem et addes aut deduces.'

= *Preceptum canonis Ptolomei* (A.7.1), without tables. No glosses.

Oxford, Hertford College, 3

s. XIVⁱⁿ (f. 1–12; the rest of the MS is from the later 14th and 15th c.). **Prov.:** Hertford College (i.e. Magdalen Hall) since at least 1873, 'ex dono Nath. Friend de Westerby in agro Glocestrensi' (f. 1r).

Parchment, 78 f. Composite MS made of several parts from the 14th and 15th c., the first of which (f. 1–12) forms one unit copied by one or two similar neat hands with decorated initials.

Astronomy (f. 1–12): Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (1ra–1vb); **Ptolemaica** (1vb–3va); Pseudo-Thebit Bencora, *De motu octave spere* (3va–6ra); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (6ra–7ra); *Theorica planetarum Gerardi* (7ra–11va); Berengarius, *De horologio viatorum* (11va–12vb). The other parts (f. 13–78) also contain astronomical material, mainly the canons of the Alfonsine tables and of the Toledan tables.

Bibl. Coxo 1852, II, *Codices MSS. Aulae B. Mariae Magdaleneae*, 5 (MS 'I'); Pedersen 2002, I, 152.

1vb–3va 'Incipit secundus tractatus Thebith de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Core de hiis que indigent expositione antequam legatur Almagesti.'

= *Thebit Bencora, De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Oxford, New College, 281

s. XIII². **Or.:** England. **Prov.:** John Farley (d. 1464), fellow of New College, Oxford, bequeathed the volume to that college (f. 1r: 'Liber collegii beate Marie Winton<iensis> in Oxon<ie> ex dono magistri Joannis Farley, quondam socii huius collegii ac scholaris sacre theologie, eius anime propicietur Deus. Amen').

Parchment, II + 248 f. (modern foliation in pencil), a single neat hand, deluxe MS richly decorated especially at the beginning of each book of the *Almagest*, numerous painted and decorated initials throughout. The decoration was, however, added in the 15th c.

Ptolemaica (single text), with added glosses containing a second Ptolemaic section. Blank: I–II, 1, 243–248 (except fainted astronomical notes by one or two later hands f. 243–244) and several folia within the *Almagest* (see below).

Bibl. Coxe 1852, I, *Codices MSS. Collegii Novi*, 98; Kunitzsch 1986–1991, II, 22; Zepeda 2018, 76–77; J. Willoughby, ‘John Farley (d. 1464) and the Finessing of MS 281’, *New College Notes* 15 (2021), no. 2, 9 pp. (e-journal); Georges (forthcoming).

2r–242v ‘Bonum scire fuit quod sapientibus non deviantibus visum est cum partem — abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A, without the preface. I, 2r–19v (end missing); II, 21r–41v (beginning missing); III, 41v–58r; IV, 58r–79v; V, 81r–101v (beginning and end missing); VI, 103r–122v (beginning missing); VII, 122v–136v; VIII, 136v–148v; IX, 148v–167v and 169r–170r; X, 170r–170v, 168r–168v and 171r–184r; XI, 184r–206r (with lacuna); XII, 206r–225r (with lacunae); XIII, 225r–242v (with lacuna). Several sections are missing with blank folio or space *in loco*, including the end of Book I and the beginning of Book II (f. 20 blank, f. 19v breaks off towards the beginning of I.14 ‘... CXII partes et XXIII minuta et LVI secunda, que est sicut proporcio centum et unius...’ and f. 21r opens towards the end of II.1 ‘... distancium et equidancium orbi equacionis diei, et hoc est quanta sit...’); the beginning of Book V (f. 80 blank, f. 81r opens towards the end of V.1 ‘... <ar>mille extrinsece et super locum ex quo videtur stella qui est super partem orbis signorum...’); the end of Book V and the beginning of Book VI (f. 102 blank, f. 101v breaks off towards the end of V.19 ‘Et ut exemplificemus illius exemplum ponemus in hac forma posita...’ and f. 103r opens towards the middle of VI.2 ‘... et fuit motus Solis per motum suum medium in media die primi mensis...’; chapters XI.11 and XII.8, both consisting of tables (f. 203r–205r blank and 221r–221v partly blank); the table at the end of XII.9 (blank space on f. 225r); and ch. XIII.11 (blank space on f. 241v–242r). The missing folia 20, 80 and 102 (beginning of Books II, V and VI) were probably removed for their decoration. The star catalogue (VII.5–VIII.1) is only partly filled. Substantial glosses by the scribe, or a contemporary or somewhat later hand throughout, including excerpts from the *Almagesti minor* (see below). Colour reproductions of f. 2r, 170v, 8v and 56r by Willoughby, 2, 3, 5 and 8 respectively.

(28r–77r) ‘Propositio 16^a. Cuiuslibet porcionis circuli declivis ascensionem in spera declivi invenire — Medium motum Capitis Draconis elicere.’

= ***Almagesti minor* (C.1.4)**, excerpts II.16–18, 21–26 and 33, III.3–IV.1 and IV.17–19 as glosses to the *Almagest* (see above) on f. 28r–30r, 32v, 48r–48v, 49v–50v, 51v–54r, 55v, 56v–58r and 76v–77r. These excerpts are closely related to and perhaps copied from MS $\rightarrow$ Florence, BML, Plut. 89 sup. 57.

Oxford, New College, 282

s. XVⁱⁿ (copied in 1423, cf. colophon f. 190v and verse f. 198r ‘Clara thetis **quid** ad arva, **flu**is **Cerere**m **pecus** abdens’: C + L + I + V + I + V + L + V + I + C + M + C + V = MCCCCLVVVVIII — my thanks to Carlos Steel who worked this out for me). **Or.:** Bruges (cf. colophon f. 190v). **Prov.:** Thomas Dryffeld, fellow of New College, bequeathed the MS to New College (cf. f. 1r: ‘Liber collegii ex dono magistri Thome Dryffeld socii collegii, scholaris sacre theologie’, 15th or 16th-c. hand).

Paper, 198 f., a single hand.

Ptolemaica (single text). Blank: 198v.

Bibl. Coxe 1852, I, *Codices MSS. Collegii Novi*, 98–99; Watson 1984, 143 (no. 856).

1r–198r ‘Incipit liber quadripartiti Ptholomei. Ihesus. <S>cire et intelligere gloriosum est quia omnis sapientia est a Deo... (1v) <V>erba que dixit sapientissimus Ptholomeus in arte iudiciorum astronomie... (3r) Incipit liber quatuor partium qui dicitur Quadripartitus Ptholomei Philadelphi. Capitulum primum tractatus libri quatuor partium Ptholomei. <R>es, o Misori, quibus perficiuntur pronosticationes accepte de astronomia maiores et notabiliores sunt due — (190v) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit Quatripartitum (!) Ptholomei cum glosa Haly Abenrudiani de quo sit benedictus Deus gloriosus et sublimis qui illum dirigat qui scripsit. Amen. Finitus fuit liber iste Brugis anno domini 1423 mensis Novembris die secunda [colophon in the margin, hand of the scribe]. Sequitur iudicium nativitatis Haly Abenrudiani. (191r) Volo tibi in hoc dare exemplum trium nativitatum ut melius intendas quidquid locuti sumus in eis, in prima est nativitas mea — (196v) et Deus te dirigat in viam rectam. Explicit hic iudicium 3 nativitatum ab Haly Abenrudiani factum. (197r) <V>olui iudicare utrum actor (!) iste iudicaret secundum octavam speram vel secundum nonam, et inveni per loca planetarum que posuit in figura sue nativitatis quod ipsa fuit annis Christi perfectis 986, 10 mensibus, 15 die Ianuarii, qua die equavi planetas secundum tabulas et inveni sic — loca etiam Martis et Mercurii non concordant cum locis nativitatis. Clara thetis quid ad arva, fluvis Cererem pecus abdens. In dicto versu patet annus quo scriptus fuit liber iste.’
 = **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).**
 Translator’s preface, 1r–1v; Haly’s preface, 1v–3r; I, 3r–46r; II, 46r–87r; III, 87r–150r; IV, 150r–190v; Haly’s appendix, 191r–196v; additional note, 197r–198r. Marginal notes by the scribe, especially in Books III–IV.

Oxford, St John’s College, 37

s. XVII^I (before 1640). **Prov.:** Kenelm Digby, who gave the MS to William Laud, archbishop of Canterbury (f. 1r). A copy of this MS, including Digby’s letter at the end, was made into what is today MS ^{no. 1}Oxford, BL, Savile 99.

Paper, 177 f., a single hand (except for Digby's letter).

Ptolemaica (single text), except for Valentin Nabod's horoscope and note (175v), as in MS $\rightarrow$ London, BL, Sloane 216, and an appended letter in English addressed by Kenelm Digby to John Barkham on 17 July 1640, discussing Naibod's horoscope and the circumstances of his death (176r–177v).

Bibl. Coxe 1852, II, *Codices MSS. Collegii S. Johannis Baptistae*, 12.

1r–175r 'Prooemium deest. Quod futurorum per astronomiam praecognitio sit quaedam ars et quousque progrediatur. Caput primum. Facile patescit, breviterque perspicuum fieri potest omnibus quod de aetherea et externa natura vis quaedam diffundatur — Itaque hic et in hoc termino noster quoque interpretandi commentandique labor finem iam accipiat.'
= **Valentin Nabod**, *In Claudii Ptolemaei Quadripartitae constructionis apotelesmata commentarius novus et eiusdem conversio nova* (C.2.30), missing the preface and several sections of Book I. Book I, 1r–9r; II, 9v–47r (47v–52v blank); III, 53r–111v (112r–119v blank); IV, 120r–175r. No glosses.

Oxford, University College, 41

s. XIV. **Or.:** England, probably Oxford (cf. f. 35r–36r and 74r). **Prov.:** Shrewsbury Abbey ('Conventus fratrum Salopiae', Coxe).

Parchment, 77 f., one or similar hands.

Astronomy and astrology: added notes in Latin and English (1r–2v); Robert Grosseteste, *Compotus*, beginning gone (3r–9r); Prophatius Judeus, *Quadrans novus* (10r–15r); Sacrobosco, *Algorismus* (16r–19v); Sacrobosco, *De sphaera* (19v–25v); **Ptolemaica** (26r–27v); *Theorica planetarum Gerardi* (28r–32v); Robert Grosseteste (?), *De impressionibus aeris* (33r–34v); 'Investigantibus nature chilindri compositionem qui dicitur horologium viatorum...', with tables for London and Oxford (35r–36r); Robertus Anglicus, *Quadrans vetus* (36v–40v); John Maudith (?), *Ars et operatio novi quadranti* (41r–46v); Prophatius Judeus, *Almanach* (47r–77v), with additional tables, including a table of planetary mean motions for the meridian of Oxford (74r). Blank: 9v (except for added notes), 15v.

Bibl. Coxe 1852, I, *Codices MSS. Collegii Universitatis*, 12; Pedersen 1983–1984, II, 736; Lohr/Nothaft 2019, 36–37.

26r–27v 'Liber quem edidit Thebit filius Chore de hiis que indigent expositione antequam legatur Almagestius. Equator maior in cuius superficie garditur Sol ab occidente in orientem — aut propinque oppositioni erunt retrogradi. Explicit liber Thebit.'
= **Thebit Bencora**, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). First sentence truncated. No glosses.

Palermo, Convento di San Francesco, 4

s. XV¹ (1427, cf. f. 3r). **Or.:** copied by Laurentius de Messasal, bishop of Agrigento (Sicily) from 1422 to 1442 (cf. note in the hand of the scribe at the bottom of f. 3r: 'Exemplum... hoc feci ego Laurentius episcopus Agrigentius anno domini MCCCCXXVII...'). The same Laurentius de Messasal glossed the *Almagest* in MS →Vatican, BAV, Vat. lat. 6788.

Paper, 10 f., a single hand.

Mathematics and astronomy: Nicole Oresme, *Algorismus proportionum*, prologue of the first part (1r–7v); **Ptolemaica** (7v–10r); enigma (10v).

Bibl. *La biblioteca francescana di Palermo*, ed. D. Ciccarelli, Palermo, 1995, 163–64 (not seen); S. Crimi, 'L'*Algorismus proportionum* di Nicola d'Oresme et i *Flores Almagesti* di Geber: un testimone palermitano', *Medieval Sophia. Studi e Ricerche sui Saperi Medievali* 18 (gennaio-dicembre 2016), 215–24: 215–16 and *passim*.

7v–10r 'Incipiunt 25^m theorema primi Gibi (!) super Almagesti. Et cum iam hoc ostensum sit incipiamus ostendere semitam qua quod de lateribus trianguli rectilinei et angulis... (8r) Glosa: Hic incipit ostendere Geber per tria nota — volumus demonstrare. Glosa: Quoniam omnis trianguli — illos angulos etc. que habetur in primo Almagesti.'
 = **Geber, *Liber super Almagesti* (C.1.2)**, last chapters of Book I (numbered 24–26 in ed. 1534, here numbered 25–28 in the margin), with short 'glose' inserted into the text. No further glosses. See Lyon, BM, 328, f. 78v–79r.

Paris, Bibliothèque de l'Arsenal, 1035

s. XIII¹. **Or.:** Italian hand. **Prov.:** Jacobus Carpentis, prior of Santa Maria di Monte Oliveto near Naples, 15th c. (f. Iv: 'Ego frater Iacobus Carpentis, prior monasterii Sancte Marie extra Neapolim, ordinis Montis Oliveti, subscripsi' and f. 131v: 'Ego, frater Iacobus, prior, qui supra subscripsi'); Francesco de' Medici in 1525 (f. 131v).

Parchment, I + 131 f., a single neat hand, except for f. 130v–131v, added by a later hand.

Astronomy mainly: **Ptolemaica** (1ra–79va); Menelaus, *Spherica* (81ra–104ra); 'Volo ostendere quod omnium trium linearum proportionalium...' (104rb–104vb); Thebit Bencora, *De figura sectore*, tr. Gerard of Cremona (105ra–110ra); Alpetragius, *De motibus celorum* (112ra–129vb); star table for 1185 in Toledo (129vb–130r); *Revelatio Esdrae* 'Si kalende Ianuarii fuerint die dominico, yems calidus erit...' (130va–130vb); 'Incipit cursus Lune dodicim (!) mensium...' (130vb–131va); *zodiologium* 'Quando Luna fuerit in Aquario, signo firmo, bonum est plantare...' (131va–131vb). Blank: 80, 110v–111v.

Bibl. H. Martin, *Catalogue des manuscrits de la Bibliothèque de l'Arsenal*, II, Paris, 1886, 246–47; Björnbo 1902, 138; Pedersen 2002, I, 154.

1ra–79va ‘[space for title, left blank or erased] <S>cientia species habet quarum melior post scientiam — sunt digniores ut evanescant et destruantur. Completa est declaratio eius. Completus est tractatus nonus et est ultimus libri. Hunc librum transtulit in Toletum magister Girardus Cremonensis de Arabico in Latinum.’ = **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1ra–2ra; I, 2ra–10ra; II, 10ra–19vb; III, 19vb–24ra; IV, 24ra–32va; V, 32va–46rb; VI, 46rb–57va; VII, 57va–69ra; VIII, 69ra–73rb; IX, 73rb–79va. Glosses by the scribe, including a massive gloss f. 50v–51r.

Paris, Bibliothèque de l’Arsenal, 1036

s. XIII² (c. 1265). **Or.:** Bologna, MS copied by the scribe Lafrancus de Pancis of Cremona (information Stefan Georges), probably on the basis of a Sicilian model (cf. f. 103r and 103v–104r).

Parchment, 122 f., a single neat hand, deluxe MS with numerous colour illustrations (1r–49r) and painted initials.

Astronomy and astrology: al-Šūfī, book of constellations, with a note giving the increment for 1210 (1r–49r); star catalogue verified for 1210 (51r–70v); **Ptolemaica** (71ra–72vb); astronomical tables (73r–98v), including tables of ascensions for latitudes 30° to 48° (73r–91r); three star tables (99r–102v); precession table for 1231 ‘anno perfecto’ in Palermo (103r); star table for 1188 in Palermo (103v–104r); Albumasar, *De revolutionibus annorum mundi* (104va–110vb); six star tables (111r–122r). Blank: 49v–50v, 106v, 122v.

Bibl. H. Martin, *Catalogue des manuscrits de la Bibliothèque de l’Arsenal*, II, Paris, 1886, 247–48; M.-T. Gousset, ‘Le *Liber de locis stellarum fixarum* d’al-Šūfī, ms. 1036 de la Bibliothèque de l’Arsenal de Paris: une réattribution’, *Arte Medievale* 2 (1984), 93–108; P. Kunitzsch, ‘The Astronomer Abu ’l-Ḥusayn al-Šūfī and His Book on the Constellations’, *ZGAIW* 3 (1986), 56–81 (reprinted in P. Kunitzsch, *The Arabs and the Stars. Texts and Traditions on the Fixed Stars and Their Influence in Medieval Europe*, Northampton, 1989, XI): 71–74; Blume/Haffner 2012–2016, II.1, 332–37.

71ra–72vb ‘De fortitudinibus et naturis stellarum fixarum. Incipiamus narrare naturas stellarum fixarum quas secundum suorum operum proprietatem assumunt — dicitur saturnine complexionis et martialis non obliviscuntur’ (followed by an addition by a later hand: ‘Istas proprietates stellarum fixarum ponit Ptholomeus in prima parte Quadripartiti, capitulo 9’). = **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**, I.9. A few short glosses by the scribe or a similar hand.

Paris, Bibliothèque Mazarine, 3636

s. XV^{med}. **Or.:** France, perhaps Montpellier, referred to several times. **Prov.:** ‘Cest a moi Tabourot’ (1).

Paper, 226 pp. originally foliated 1–266 in Roman numerals (according to this original foliation, f. 92–213 — between current f. 116 and 117 — are missing), one main hand.

Personal handbook made of texts, excerpts and notes of all kinds, mainly of a scientific nature, including astrology, computus, medicine, natural philosophy, alchemy, divination, cooking recipes, prayers etc., in both Latin and French. The **Ptolemaic section (61–67)** follows an astrological text on the 12 signs ‘Aries. Aries est signum calidum et siccum et incipit regnare a medio Marcii usque ad medium Aprilis, qui inter cetera habet cor forte et vult multa emere...’ (51–61) and precedes a text describing the native of the seven planets in French ‘Sensuit la disposicion quelles planetes donnent aux hommes...’ (67–69) and a physiognomy, also in French (69–72).

Bibl. A. Molinier, *Catalogue des manuscrits de la Bibliothèque Mazarine*, III, Paris, 1890, 147–49; Samaran/Marichal 1959–1981, I, 442.

61–67 ‘Secuntur 12 signa de eadem materia per alia forma secundum cursum Lune. Si inferiora reguntur a superioribus, ut patet per astrologos et sapientes... De Ariete. Natus sub Ariete, a medio Marcii usque ad medium Aprilis, erit magne industrie, nec dives nec multum pauper, a proximis suis ledetur — (De Pissibus) isti fideliter vivent, tam vir quam mulier. Et hec vobis dicta sufficiant. Explicit de naturalibus (!) hominum.’
= **Pseudo-Ptolemy, *Liber de nativitatibus hominum* (B.11)**. No glosses.

Paris, Bibliothèque Mazarine, 3642

s. XIII.

Parchment, 123 f., several hands, one of which copied f. 7–49. Several folia are missing between f. 6–7 and between f. 12–13.

Astronomy, mathematics, computus, astrology and various: table of contents, 13th c. (1ra–2va); ‘De natura terre et lapidum quorundam. Descriptis proprietatibus terre et parcium eius...’, end gone (3ra–6vb); Pseudo-Thebit Bencora, *De motu octave spere*, last page with tables only (7r); **Ptolemaica (7va–9rb)**; Thebit Bencora, *De figura sectore*, anonymous tr. (9rb–12ra); Jordanus de Nemore, *Elementa super demonstrationem ponderum*, end gone (12ra–12vb); *Computus Petri*, beginning gone (13ra–49va); ‘Incipiunt questiones Boicii. Prima vero litteralis protraccio... Expliciunt questiones Boycii de naturis rerum’ (50ra–54rb); Hermann of Reichenau, *De mensura astrolabii* (55ra–56vb); *De utilitatibus astrolabii*, attr. Ptolemy ‘Tractatus Tholomei de astrolapsu’ (56vb–61ra); Berengarius, *De horologio viatorum* (61ra–63rb); *Alchandreana* ‘De septem planetis. Summum planetarum Saturnus est, natura gelidum...’ (63rb–64vb) and other astronomical and astrological chapters (65ra–69ra); William of Conches, *Philosophia* (69va–80va); astronomical notes (81r–81v); Algorismi [al-Khwārizmī], astronomical tables, incomplete (82ra–87r); astronomical diagrams (88r–90r); ‘De arbore consanguinitatis. Ad arborem consanguinitatis docendam et ad intelligendam...’ (90va–95ra); excerpts (95rb–95v); Jordanus de Nemore (?), *Opus numerorum* (96ra–97vb and 105rb); Jordanus de Nemore (?),

Tractatus minutiarum (98ra–99ra); Jordanus de Nemore, *De numeris datis* (99ra–105ra); *Liber Alchorismi* ‘Quisquis in quatuor matheseos disciplinis...’ (105va–113vb), with appendix ‘Hic incipiunt regule et primus de agregatione. Omnis numeris talis disposicione...’ (113vb–118ra); *Somniale Danielis* (118ra–118va); Aristotle, *Physica*, end of Book VI (118va–121rb); excerpts from Boethius, Cicero, Seneca (122r–123vb). Blank: 54v, 87v, 121v. According to the table of contents f. 1ra–2va, the MS originally contained more texts, including three texts before f. 7, cf. ‘In isto volumine libri subscripti continentur... Liber primus Arsamidis philosophi de mensura circulorum [= Archimedes’s *De mensura circuli*] ... Liber secundus astrolabium Rob<erti> Capitis Grossi... Liber tertius de planisperio sive de alzagara Tholomei [= Ptolemy’s *Planispherium*] ... Incipit liber 1 Tebith cum tabulis...’, and three texts between f. 12 and 13, cf. ‘Incipit exce<r>ptum de libro Orloth de ponderibus. Incipit liber Euclidis de ponderibus [= Pseudo-Euclid’s *De ponderoso et levi*?] ... Divinationes Petri. Compotus Petri...’

Bibl. A. Molinier, *Catalogue des manuscrits de la Bibliothèque Mazarine*, III, Paris, 1890, 151–52; Bubnov 1899, LIII; *ALC*, I.1, 496 (no. 535); Hughes 1981, 29–30; O. Weijers, *Les Questions de Craton et leurs commentaires. Edition critique*, Leiden-Köln, 1981, 42–44; Burnett 1987, 188 (no. 94); Juste 2007, 350–51; Lohr 2025, 112*–13*.

7va–9rb ‘Liber quem edidit Thebit filius Core de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describatur super duos polos orbis — propinqui oppositioni erunt retrogradi. Expletus liber Thebit filii Core de hiis qui (!) indigent expositione antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** Glosses by the scribe.

Paris, Bibliothèque nationale de France, gr. 2180

s. XV². **Or.:** mainly copied by Georgios Meidiatas (fl. 1460–1481). **Prov.:** Jean Hurault de Boistaillé (d. 1572); Philippe Hurault de Cheverny (d. 1620); library of the kings of France in 1622.

Paper, 109 f., one main hand.

Collection of medical and other scientific texts in Greek, including by Dioscorides, Cleomedes, Hermes, Ptolemy, etc. The **Ptolemaic section** consists of an incomplete interlinear Latin translation of the Greek *Centiloquium* or *Karpos* (91r–93v).

Bibl. CCMB, II, 458–59; H. Omont, *Inventaire sommaire des manuscrits grecs de la Bibliothèque Nationale*, Paris, 1888, II, 210–11.

91r–92r ‘Exponentes, o Sire, operationes stellarum in composito operantes mundo, multum utiles existentes cognitione... A te et a sciencia: non enim est possibile scientem particulares formas rerum enuntiare, quemadmodum neque sensus accipit particularem formam sensibilis, sed generalem — et ubi in seminatione accidit, illud in partu fac ascendens, vel huius diametrum.’
= **Pseudo-Ptolemy, *Centiloquium*, tr. after 1460 (B.1.8),** preface and v. 1–51, as interlinear translation.

Paris, Bibliothèque nationale de France, lat. 5787

s. XV^{ex} or XVIⁱⁿ (f. 80–217, the other parts of the MS seem to be from the 16th c.). **Or.:** Buda according to the colophon f. 213r (hence for f. 80–217, copied in the same hand), but this colophon might as well be that of the exemplar, with the date ‘1422’ being a likely mistranscription of ‘1477’ (cf. MS $\rightarrow$ Florence, BNC, Magliabech. XI.144, f. 105v: ‘Liber terciusdecimus Epitomatis in Almagestum Ptolomei anno domini 1477 Bude explicit feliciter’). **Prov.:** library of the kings of France before 1744.

Paper, 469 f., composite MS made of five parts, the second of which (f. 80–217) was copied by a single hand. The other parts consist of f. 1–78, 218–227 + 383–429, 228–250 and 251–382 + 434–469.

Astronomy (f. 80–217): **Ptolemaica (80r–213r)**; Regiomontanus, *Canones astrolabii armillaris* ‘Canones astrolabii armillaris a magistro Iohanne de Regio Monte editi incipiunt. Astrolabium armillare quo Ptolomeus plurimum usus est...’ (213v–214v); Regiomontanus, ‘Organum Ptolomei cuius adminiculo longitudines ac latitudines locorum in superficie terrestri inquiruntur si recte mentem opificis augurer in hunc ferme modum componitur. Sit armilla parve quidem profunditatis...’ (215r–216v). Blank: 217. The other parts of the MS deal with history, geography and hippiatrics: Appian of Alexandria, *Historia Romana* (1r–78v, excerpts *Bellum Hispanicum* and *Bellum Hannibalicum*); geography ‘Gratissime pater, cum circa descriptionem demonstrationesque universalis cosmographie...’, end gone (218r–227v and 383r–429r); fragment of a treatise of hippiatrics (228r–246v); tables and text of geography (251r–381v and 434r–469v). Blank: 66v, 79, 217, 247–250, 382, 429v–433v (except fragment of a table f. 431r).

Bibl. CCMB, III, 157.

80r–213r ‘Reverendissimo in Christo patri ac domino Bessarioni episcopo Tusculano, sancte Romane Ecclesie cardinali, patriarche Constantinopolitano, Iohannes Germanus de Regio Monte se offert devotissimum. <A>dmiranti mihi sepenumero vel pocius graviter et inique serenti tam raros esse etate nostra optimarum... (82r) <R>ecte profecto meo iudicio nobiliores philozophi, o Sire, distinxerunt inter theoricam philosophie et practicam partem — Quod postremo hoc in theoreumate explorare et cepto labori modum statuere decrevimus. Finis Epitomatis in Almagestum Ptolomei anno 1422 (!) Bude.’ = **Johannes Regiomontanus, *Epitome Almagesti* (C.1.21)**. Preface, 80r–81v; I, 82r–92v; II, 92v–102v; III, 102v–114r; IV, 114r–122r; V, 122r–136v; VI, 136v–150r; VII, 150r–155v; VIII, 156r–163r; IX, 163v–175r; X, 175v–184v; XI, 184v–194r; XII, 194v–201r; XIII, 201r–213r. A few short marginal notes by the scribe, f. 88v, 89r, 90v, 101v, 111r, 112v, 113r, 118v, 119v, 123v, 127v, 138v, 148r, 161r, 167r, 172v, 176v, 188r, 188v, 195v, 206v.

Paris, Bibliothèque nationale de France, lat. 5934

s. XVI (f. 80–85). **Or.:** France (?). **Prov.:** Colbert; library of the kings of France in 1732.

Paper, 87 f., composite MS made of four parts dating from the 15th and 16th c., the fourth of which (f. 80–87) contains the Ptolemaic section only.

Ptolemaica (80r–85v). Blank: 86r–87v. The third part of the MS (f. 74–79, 16th c.) contains Thebit Bencora, *De imaginibus*. The first two parts contain various texts in French in Latin.

Bibl. CCMB, III, 178–79; Juste 2011–2015, II, 63–64.

80r–85v ‘Incipit liber Ptolomei de impressionibus imaginum, anullorum et sigillorum secundum facies duodecim signorum zodiaci. Incipiamus tractare de compositione et impressione imaginum, sigillorum et anullorum que possunt fieri Sole existente in quolibet signo secundum gradus et facies singulas... Cum Sol est in Ariete. Aries est signum igneum, incisum membris sine lingua habens sub quolibet pede duodecim lumina ex auro, argento et ferro qua substinetur in sanitate — (in Piscibus) Et est operatio eius in magnis defectibus valde mirabilis. Finis libri Ptolomei de sigillis et impressionibus imaginum secundum duodecim signa.’
= **Pseudo-Ptolemy, *Liber de impressionibus imaginum, anulorum et sigillorum secundum facies duodecim signorum zodiaci* (B.16).**
No glosses.

Paris, Bibliothèque nationale de France, lat. 7016A

s. XV. **Or.:** France (several texts are in French). **Prov.:** Colbert; library of the kings of France in 1732.

Paper, 171 f., one main hand difficult to read.

Practitioner’s handbook mainly devoted to medicine, except **Ptolemaica (92r–94v and 113r)** and a section on astrology and astral magic (144r–152r), including Messahallah, *Epistola de rebus eclipsium* (144r–145v); ‘Notandum est quod quando fit eclipsis Solis quod fortunium vel infortunium...’ (145v–146r); ‘De libro Zaelis Israelite scito quod significatrix id est Luna...’ (146r, this excerpt is not related to Zael’s *Quinquaginta precepta*); Leopold of Austria, *De astrorum scientia*, excerpt from Book V (146r–148r); Hermes/Enoch, *Liber imaginum signorum* (148r–149v); ‘Figura Arietis de argento vel auro fiat Sole intrante in Ariete...’ (150r–151r); *Figure septem planetarum* ‘Antiqui philosophi sapientes istis 7 figuris...’ (151r–152r).

Bibl. CCMB, III, 303–04; Juste 2011–2015, II, 71–72.

92r–94v, 113r ‘Ad inveniendum signum nativitatis cuiuslibet hominis litteras computa... [preceded by three lines of an encrypted text]. Inferiora corpora reguntur a superioribus... Aries primum signum. Natus sub Ariete a medio Martii usque ad medium Aprilis erit magne industrie — (113r) (Natus sub Pisce) fideliter vivent tam viri quam mulieres.’
= **Pseudo-Ptolemy, *Liber de nativitatibus hominum* (B.11).** No glosses.

Paris, Bibliothèque nationale de France, lat. 7195

s. XIII^{ex}–XIVⁱⁿ. **Or.:** probably northern France (Paris?). **Prov.:** monastery St Lazarus of Blois in 1419 (cf. note added f. 146vb: 'Iste liber est patris et fratrum sancti Lazari Bles<ensis>, quem librum ipsi tradiderunt in commendato in presentia mei Menocii subscripti... anno domini M^oCCCC^oXIX^o die Veneris post Quasimodo, XXVIII^a Aprilis. Menocius'); Julianus Couldranus in 1552 (note added f. 146vb: 'Julianus Couldranus faber horologium ex tenente prefato susceptum Arontio Fineo [Oronce Fine] Delphinati regio mathematicorum fidebat, accomodavit anno 1552'); Colbert; library of the kings of France in 1732. A note added in the margin off f. 91vb reads: 'Petrus de Dacia 1302 commentarium astrolabii, Profatius Iudeus 1331 in quadrantem.'

Parchment, 146 f., a single neat hand, richly decorated initials.

Astronomy: table of contents, 14th or 15th c. (inner front cover); Sacrobosco, *Algorismus* (1ra–6vb); Sacrobosco, *De sphaera* (6vb–17va); Sacrobosco, *Computus* (17vb–36ra); Robertus Anglicus, *Quadrans vetus* (36ra–41rb), with solar tables (41v–43v); Pseudo-Messahallah, *De compositione astrolabii* (44ra–61ra); *Theorica planetarum Gerardi* (61ra–67vb); Robert Grosseteste, *De sphaera* (67vb–74ra); Azarchel, *Saphea*, tr. Guillelmus Anglicus (74rb–78ra); Azarchel, *Saphea*, tr. Johannes Brixiensis and Prophatius Judeus (78ra–91vb); Robert Grosseteste, *Computus* (93ra–115vb); canons for syzygy tables of Novara 'Composui tabulam hanc ad inveniendum ciclem et horam...' (116va–117rb); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (117rb–137va); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (137vb–139ra); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (139ra–140vb); Pseudo-Thebit Bencora, *De motu octave spere* (140vb–143va); **Ptolemaica (143va–146vb)**. Blank: 92r–92v, 104v, 116r.

Bibl. CCMB, III, 325; Panti 2001, 237; Lohr/Nothaft 2019, 37.

143va–146vb 'Incipit Thebith de hiis que indigent expositione antequam legatur Almagesti. Quatuor diei est circulus maior qui describitur — propinqui oppositioni Solis erunt tunc retrogradi. Expletus Thebit.'
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Paris, Bibliothèque nationale de France, lat. 7198

s. XIV^{ex}–XV (for f. 111–133; f. 1–110 are from the late-13th or early-14th c.). **Or.:** northern France, probably Paris, for f. 1–110 (John of Murs left a note mentioning the solar eclipse of 1333 f. 3r). **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, 133 f., composite MS made of two parts (I: f. 1–110, one main hand; II: f. 111–133, several hands, one of which copied f. 111ra–126vb). One or several folia appear to be missing between f. 126 and 127.

Astronomy, astrology, medicine and sermons: Pseudo-Robert Grosseteste, *Kalendarium* (1r–6v); *Algorismus de fractionibus* 'Cum multis de numeris tractatus vidisses...' (7ra–8ra); Pseudo-

Messahallah, *De compositione astrolabii* (8ra–10va); canons of Toledan tables (10va–24vb); Toledan tables (25r–110v); **Ptolemaica** (111ra–122ra); Messahallah, *Epistola de rebus eclipsium* (122ra–123ra); two short astrological chapters ‘Si quis querit de vita sua...’ and ‘Hora si res amissa recuperabitur...’ (123rb); Albumasar, *Flores* (123va–126vb); ‘Incipit liber de potestate planetarum et signorum. Nunc tractare incipimus sed post de formis signorum...’, incomplete (126vb); John of Toledo, *Dietarium* (127ra–130ra); sermons (130ra–133vb).

Bibl. CCMB, III, 325–26; Lemay 1999, I, 261; Pedersen 2002, I, 155; Nicoud 2007, II, 913; Juste 2011–2015, II, 75; L. Miolo, ‘In Quest of Jean des Murs’s Library: An Overview of His Readings and Uses of Manuscripts’, *Erudition and the Republic of Letters* 4 (2019), 13–39: 33.

111ra–122ra ‘Incipit Centiloquiii (!) Ptolomei de iudiciis astronomie [title in upper margin by the scribe]. Dixit Ptolomeus: Iam scripsi tibi, Disive (!), libros de hoc quod operantur stelle in hoc seculo... Sciencia stellarum ex te et illis est... Dixit Ptolomeus, ex te et ex illis, significat quod qui res futuras scire desiderat — (121vb) Et ego Deum precor ut te (122ra) diligat. Perfecta est huius libri translacio 12 mense Maii, 12 die mensis Gamedi secundi, anno Arabum 530. Amen. Explicit Centiloquium Ptolomei et commentum Hahi (!) super ipsum.’
= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**. No glosses.

Paris, Bibliothèque nationale de France, lat. 7214

s. XIV. **Or.:** Italy. **Prov.:** Pavia, library of the dukes of Milan (before 1426); library of the kings of France in 1499–1500.

Parchment, 217 f., a single neat hand or, possibly, two similar hands (f. 1–207 and 208–217).

Geometry, astrology and astronomy: Euclid, *Elementa*, ed. Campanus of Novara (1r–207r); Messahallah, *Liber interpretationum* (208ra–209rb); four short chapters on eclipses ‘Diametrum Lune dividitur in VII puncta sive digitos...’ (209va–209vb); table: geographical coordinates of 13 cities (209vb); Pseudo-Thebit Bencora, *De motu octave spere* (210ra–210vb); **Ptolemaica** (211ra–217vb). Blank: 207v.

Bibl. CCMB, IV, 327; Heiberg 1907, XIII; E. Pellegrin, *La bibliothèque des Visconti et des Sforza, ducs de Milan, au XV^e siècle*, Paris, 1955, 130; Juste 2011–2015, II, 75.

211ra–217vb ‘Incipit Planispermium Tholomei. <C>um sit possibile, Iesuri, et plerumque necessarium ut in plano represententur circuli in speram corpoream incidentes — (217ra) et cum ipsis circulis meridianis signa distinguuntibus. Si a termino unius diametri circuli recti ducatur linea per centrum — per polum zodiaci transire habet. Explicit Planispermium Tholomei.’
= **Ptolemy**, *Planispermium*, tr. **Hermann of Carinthia (A.6.1)**, Class I, without the preface of the translator. Text, 211ra–217ra; *Propositiones planispermii*, 217ra–271vb. Glosses by the scribe on virtually every page.

Paris, Bibliothèque nationale de France, lat. 7215

s. XIV (for f. 168–170). **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, I + 181 f., MS made of several parts of the second half of the 13th c., each copied by a single neat hand. F. 1r–3v, 123r–124v, 132v–133v and 168r–170r were added by a single hand of the 14th c.

Mathematics and astronomy: incomplete table of contents and notes added by two later hands (Iv); Archimedes, *Tractatus de incidentibus in humidum corporibus* (1ra–2va); fragment ‘Si fuerint 4 corpora equalia in magnitudine...’ (2va); Peter Peregrinus of Maricourt, *De magnete* (2va–3vb); Euclid, *Elementa*, version ‘Adelard II’, except for the beginning in Campanus’s version (4r–105r); Euclid, *De speculis* (105r–107v); Heron’s theorem (107v); Jordanus de Nemore, *Elementa super demonstrationem ponderum*, incomplete (107v–108v); *Liber de canonio* (108v–109r); Pseudo-Euclid, *De ponderoso et levi* (109r–109v); Archimedes, *De mensura circuli* (109v); Euclid, *De visu* (109v–115r); seven geometrical theorems ‘Si circulus inscribatur quadrato...’ (115r–115v); Sacrobosco, *Algorismus* (116r–119v); John of Ligneris, *Algorismus de minutiis* (119v–123r, with added comm. 123r–124v); *Theorica planetarum Gerardi* (126ra–132vb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (132vb–133va); note ‘Scias et notes bene que sequuntur de eccentricis planetarum...’ (133va–133vb); Sacrobosco, *De sphaera* (134ra–145va); Boethius, *De arithmetica* (146r–166r); **Ptolemaica (168ra–170rb)**; fragment of a theological text (174ra–181rb). Blank: Ir, 125r–125v, 166v–167v, 170v–173v, 181v.

Bibl. CCMB, IV, 327; Busard/Folkerts 1992, I, 34–36.

168ra–170rb ‘Thebit ben Corah in Almagestum sive De hiis quae indigent expositione antequam legatur Almagestum. Thebit in Almagestum [two titles added by two later hands in the upper margin]. Aequator diei est circulus maior qui describitur — in oppositione Solis aut propinqui oppositioni erunt retrogradi. Explicit Thebith Benchenent (?) De hiis que indigent expositione antequam legatur Almagestis (!).’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Paris, Bibliothèque nationale de France, lat. 7254

s. XII^{ex}. **Or.:** English hand (Georges). **Prov.:** notes and pen trials on f. 144v, including ‘ER’ and ‘Henry Norrey’, which Georges interprets as ‘Elisabetha Regina’ (Queen Elizabeth I, reigned 1558–1603) and Henry Norrey or Norris, English ambassador in France from 1567 to 1570; Etienne Baluze; library of the kings of France in 1719.

Parchment, 144 f., a single neat hand, decorated initials. A number of folia have been partially cut off, but this does not affect the text.

Ptolemaica (single text).

Bibl. CCMB, IV, 331; Kunitzsch 1986–1991, II, 13; D. Jacquart, ‘Les manuscrits des traductions de Gérard de Crémone: quelques caractéristiques formelles’, in *Les traducteurs*

au travail. Leurs manuscrits et leurs méthodes, ed. J. Hamesse, Turnhout, 2001, 207–20: 217–18; Georges (forthcoming).

1r–144r ‘...tiles in arte arismetice eum intelligere. Quia vero tempora complere volumus, ponemus quicquid possibile est conferre — et speculari secundum quantitatem nostre virtutis. Capitulum secundum de ordinibus huius scientie. Quod prius de hac scientia sciendum est, premittendum est summa scientie habitudinis — abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Expleta est dictio 13^a libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Laus Deo. Amen.’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. I, 1r–6v; II, 6v–19v; III, 19v–28v; IV, 28v–40r; V, 40r–53v; VI, 53v–65v; VII, 66r–81r; VIII, 81r–94r; IX, 94r–106v; X, 106v–115v; XI, 116r–127v; XII, 127v–132r; XIII, 132r–144r. The text opens at the end of ch. I.1, due to the loss of one folio (or more) at the beginning. Other folia are missing between f. 2 and 3 (probably three folia, i.e. I.7–I.11: ‘... et aggregantur mota et stant fixa in medio ex sustentatione et coangustatione eorum’ /3r/ <tables of arcs and chords starting with 90°30’>), between f. 115 and 116 (two folia, i.e. the end of Book X and the beginning of Book XI: ‘... et erit angulus BDM totus in 47 partes et 4 minuta et secundum istas partes erit angulus EDM 11 partes /116r/ DH et ET et quia angulus NZS et est angulus cursus equalis in longitudine IA ostensum est...’) and between f. 127 and 128 (several folia, from XII.1 to XII.5: ‘... sicut proprie velocitatis orbis egredientis centri ad ve<locitatem> /128r/ secunda duorum autem arcuum arcus qui est super lineam TR...’). Further folia might be missing in other places. A few marginal notes by the scribe. Four glosses in a later hand f. 1r–1v.

Paris, Bibliothèque nationale de France, lat. 7255

s. XIII¹ (second quarter acc. Avril/Stirnermann, between c. 1225 and c. 1235 acc. Georges).
Or.: England, probably Oxford. **Prov.:** Charles IX.

Parchment, f. 156 f., two hands: f. 1r–147r and 147v–156r. F. 1–147 are in a very neat hand with richly decorated initials, especially on f. 1r and at the beginning of each book of the *Almagest*.

Astronomy and computus: ***Ptolemaica* (1r–147r)**; Robert Grosseteste, *Computus* (147v–156r).
Blank: 156v, except a few scattered and hardly legible notes.

Bibl. *CCMB*, IV, 331; Kunitzsch 1986–1991, II, 13; F. Avril, P. D. Stirnermann, *Manuscrits enluminés d’origine insulaire, VII^e–XX^e siècle*, Paris, 1987, 68 (no. 108); Lohr/Nothaft 2019, 37–38; Georges (forthcoming).

1r–147r ‘Quidam princeps nomine Albugaue in libro suo quem scientiarum electionem per verborum nominavit... Bonum scire fuit quod sapientibus non deviantibus visum est — et abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Expleta est dictio XIII^a libri Ptholomei et cum ea completur liber Almagesti de disciplinabilibus.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1r; I, 1r–12r; II, 12r–29v; III, 29v–38v; IV, 38v–52v; V, 52v–64r; VI, 64r–76r; VII, 76r–86v; VIII, 86v–95v; IX, 95v–109v; X, 109v–117v; XI, 117v–129r; XII, 129r–137v; XIII, 138r–147r. Corrections by the scribe and glosses, sometimes substantial, by three other hands, one from the first half of the 13th c. (as noted by Georges, this hand also glossed the *Almagesti minor* and other texts in MS $\rightarrow$ Paris, BnF, lat. 7399) and the others from the 14th and 15th c. A fourth hand (English acc. Georges) is responsible for a gloss mentioning the year 1291 on f. 38v: ‘... a principio mundi usque annum Christi 1291.’

Paris, Bibliothèque nationale de France, lat. 7256 [Plate 4]

s. XIII^{med} (the date 30 June 1251 is mentioned in two glosses by the scribe on f. 34v). **Or.:** copied and glossed in Paris by Campanus of Navara (Georges). **Prov.:** Mazarin; library of the kings of France in 1668.

Parchment, f. 163 f., a single neat hand, beautiful MS with decorated initials.

Ptolemaica (single text).

Bibl. CCMB, IV, 331; Kunitzsch 1986–1991, II, 13; Zepeda 2020; Georges (forthcoming).

1ra–163vb ‘*Almagesti Tholomei sollempnissimi astrologi* [title in upper margin, probably added by another hand]. Quidam princeps nomine Albuguaf in libro suo quem scientiarum electionem et verborum nominavit ... (1va) Bonum scire fuit quod sapientibus non deviantibus visum est — abbreviationem, arrogantiam vel collaudationem, tunc iam sequitur et honestum est ut ponamus hoc finem libro. Expleta est dictio tertidecima libri Ptolomei et cum eo completur liber *Almagesti de disciplinabilibus*.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1ra–1va; I, 1va–12ra; II, 12ra–26r (26v blank); III, 27ra–35va; IV, 35va–47va; V, 47va–61rb; VI, 61rb–76ra; VII, 76rb–86r; VIII, 86v–95va; IX, 95va–110vb; X, 111ra–121va; XI, 121va–136rb; XII, 136rb–149rb; XIII, 149va–163vb. Glosses by the scribe (Campanus of Navara), numerous in the first part (up to f. 41v), only sporadic thereafter (especially f. 57r–57v, 70r, 90v, 101v, 103v, 104r, 137r, 150v–152v). A selection of these glosses (also found in MS $\rightarrow$ Vatican, BAV, Barb. lat. 336) have been edited by Zepeda 2013, 398–413 (see also pp. 130 n. 244, 148 n. 293, 168, 171, 190). Further discussion in Zepeda 2018, 81–82, Zepeda 2020 and Georges.

Paris, Bibliothèque nationale de France, lat. 7257

s. XIII¹ (between c. 1217 and c. 1235 acc. Georges). **Or.:** copied by a northern French scribe active in Bologna, with missing sections supplied in Northern France, probably Paris (Georges).

Prov.: Colbert; library of the kings of France in 1732.

Parchment, 109 f., a single neat hand (except missing sections supplied by another hand), beautiful MS with decorated initials.

Ptolemaica (single text). Blank: 1r–1v, 98v.

Bibl. *CCMB*, IV, 331; Kunitzsch 1986–1991, II, 18; Georges (forthcoming).

2ra–109v ‘Almagestum Claudii Ptolemaei [title added in upper margin by later hand]. Quidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (2rb) Bonum domine hec dicit lectori fuit quod sapientibus non deviantibus visum est — (98rb) per ipsam prolongationem et abbreviationem, tunc iam sequitur et ostensum est ut ponamus hoc fine libri. Expleta est dictio tertia decima libri Ptolomei et cum ea completur liber Almagesti de disciplinalibus. (99ra) Sit itaque hec summa que precessit quam scivimus ex illis rebus. Iam vero remansit apud nos ut declaremus quod hee due linee... (99va) Capitulum secundum in declaratione antecessionis Saturni. Et quia illud est ita tunc modo narrabimus — (101vb) et est 33 partes et 3 minuta et 53 secunda. (102r) [table] Tabula stellarum fixarum. Forme stellarum australium. Stellacio Lupi... Stellacio Lari... Stellacio Corone meridionalis... (102v) [tables] Capitulum quartum none dictionis in positione differenciarum [et] tabularum motuum mediorum qui sunt quinque stellarum erraticarum in longitudine et diversitate...’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 2ra–2rb; I, 2rb–11rb; II, 11rb–23rb; III, 23rb–28vb; IV, 28vb–38ra; V, 38ra–46vb; VI, 46va–55va; VII, 55va–63ra; VIII, 63ra–69rb (missing the end of VIII.1); IX, 69rb–74rb (missing the end of IX.3 to the beginning of IX.5); X, 74rb–79rb; XI, 79rb–87vb; XII, 87vb–91va (missing XII.1–5); XIII, 91va–98rb. The explicit is followed (99ra–109v) by the three sections omitted in the text, due at least partly to missing folia in the exemplar. These sections have been added by a later 13th-c. hand on the basis of a model from Class A (at least for the omission in the star catalogue, see Kunitzsch). The first section (99ra–101vb) contains chs XII.1–5 (ch. 1 starting with the second paragraph, ch. 5 incomplete), cf. 88rb, where a note added in the margin reads ‘Hic deficiunt tria folia...’ and refers the reader to the present location. The second section (102r) contains ch. VIII.1 from the star catalogue (without numerical data for longitude, latitude and magnitude), cf. 66v, where a note added in the margin refers the reader to the present location. The loss of this section may be due to a missing folio after f. 66. The third section (102v–109v) contains ch. IX.4 (the tables are complete for Saturn only, missing the numerical data for Jupiter, Mars, Venus and Mercury), cf. 70va, where a note added in the margin reads ‘Hic deficit quartum capitulum in positione differentiarum...’ and refers the reader to the present location. The section missing on f. 70va is not due to a material lacuna in the present copy, for it occurs in the middle of a column. The scribe who added these sections also supplied another missing section in chs XI.1–10 directly on f. 81rb–86rb. Substantial glosses by the scribe and by a later hand. On these glosses, see also Zepeda 2018, 83.

Paris, Bibliothèque nationale de France, lat. 7258

s. XIII² (f. 48v–313v, copied c. 1265) and XIV^{ex} (f. 1–48 and 314–334, copied/restored c. 1390). **Or.:** the MS was originally produced in Bologna and copied by the scribe Lafrancus de Pancis of Cremona c. 1265, then it was restored in Pavia c. 1390 by the scribe Armannus de Alemania (cf. colophon) probably for Pasquino Capelli, chancellor of Gian Galeazzo Visconti (d. 1402). Armannus copied or re-copied f. 1–48 and 314–334 (i.e., Books I–II and XIII of the *Almagest*) perhaps because the sections concerned were damaged in the original MS. Most of the decoration was also supplied at the time the MS was restored. **Prov.:** Pavia, library of the dukes of Milan; library of the kings of France in 1499–1500.

Parchment, 334 f., two very neat hands (I: f. 48r–313v; II: f. 1–48 and 314–334), deluxe MS with large illuminated initials at the beginning of each book of the *Almagest* and richly decorated initials throughout.

Ptolemaica (single text). Blank: 334v.

Bibl. CCMB, IV, 331; Delisle 1868–1881, I, 130; E. Pellegrin, *La bibliothèque des Visconti et des Sforza, ducs de Milan, au XV^e siècle*, Paris, 1955, 138; Samaran/Marichal 1959–1981, II, 407; F. Avril, M.-T. Gousset, *Manuscrits enluminés d'origine italienne*, II: *XIII^e siècle*, Paris, 1984, 87 (no. 104); Kunitzsch 1986–1991, II, 16; F. Avril, M.-T. Gousset, *Manuscrits enluminés d'origine italienne*, III: *XIV^e siècle*. 1: *Lombardie-Ligurie*, Paris, 2005, 56–57 (no. 25); Georges (forthcoming).

1r–334r ‘In nomine sancte et individue trinitatis, patris et filii et spiritus sancti. Amen. Incipit liber Ptholomei qui dicitur Almagesti. Quidam princeps nomine Albugaefe in libro suo quem scientiarum electionem et verborum nominavit... (2r) Capitulum primum in quo huius scientie ad alias excellentiam et finem utilitatis dicam. Bonum fuit scire quod sapientibus non deviantibus visum est — abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus finem libro. Expleta est dictio decimatertia libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Deo gratias. Inceptum **Almus** in astronomos fuit hic dictus Ptholomeus/Atque **Magna** per astra vias docuit cognoscere rectas/Finitum **Gestum** hoc bisseis uno iuncto quoque dictis. Per Armannum.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B for f. 48v–313v (original part) and Class A for f. 1–48 and 314–334 (restored part). Preface, 1r–2r; I, 2r–19r; II, 19r–48r; III, 48v–70r; IV, 70v–98v; V, 98v–135r; VI, 135r–166r; VII, 166r–187r; VIII, 187v–205v; IX, 205v–233v; X, 233v–259r; XI, 259v–289r; XII, 289r–313r; XIII, 313v–334r. Glosses by the scribe in Books III–IX. Glosses by a 15th-c. hand on f. 71r–73r and 75r–77r. Faded ink in places, which sometimes renders the text difficult to read.

Paris, Bibliothèque nationale de France, lat. 7259

s. XIV^{ex}–XVⁱⁿ. **Or.:** France. **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, 210 f., a single neat hand, painted initial on f. 2r, decorated initials at the beginning of each book of the *Almagest*.

Ptolemaica (single text). Note added by a later hand on f. 1v: 'Almagestum Ptolemaei ab Alahazen filio Iosephi f<ilio> (?) Matrae arithm<etico> et Sergio filio Elbae Christiano Arabo e Graeco in Latinum translatum iussu Maimonis vel Maimunis regis Arabum sive Orientalium Saracenorum anno salutis vel circa DCCCLXX, Saracenicae sectae anno CC^oXII^e. Blank: 1r.

Bibl. CCMB, IV, 331; Kunitzsch 1986–1991, II, 12.

2ra–210va 'Quidam princeps nomine Albugaue in libro suo quem scientiarum electum et verborum nominavit... (2vb) Bonum fuit scire quod sapientibus non deviantibus visum est — abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Expleta est dictio 13a libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Laus Deo. Pax vivis et requies deffunctis (!). Amen.'
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 2ra–2va; I, 2vb–7ra; II, 7ra–39vb; III, 39vb–53rb; IV, 53rb–72ra; V, 72ra–90ra; VI, 90ra–107ra; VII, 107ra–122v; VIII, 122v–136rb; IX, 136rb–154ra; X, 154ra–165va; XI, 165va–182rb; XII, 182rb–196ra; XIII, 196ra–210va. No glosses.

Paris, Bibliothèque nationale de France, lat. 7260

s. XV². **Or.:** Italian hand. **Prov.:** Pierre Michon-Bourdelot (d. 1685), who left his library to Queen Christina of Sweden c. 1653; Mazarin; library of the kings of France in 1668.

Paper, 160 f., a single hand, reserved initials.

Ptolemaica (single text).

Bibl. CCMB, IV, 331; E. Pellegrin, 'Catalogue des manuscrits de Jean et Pierre Bourdelot. Concordance', *Scriptorium* 40 (1986), 202–32: 218 (no. 222); Kunitzsch 1986–1991, II, 22; Georges (forthcoming).

1r–160v '<Q>uidam princeps nomine Albugaue in libro suo quem scientiarum electionem et verborum nominavit... (1v) onum scire fuit quod sapientibus non deviantibus visum est — abreviationem arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro etc. Expleta est dictio 13a libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Deo gratias.'
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1r–1v; I, 1v–14v; II, 14v–29v; III, 29v–40r; IV, 40r–52v; V, 52v–67v; VI, 67v–80v; VII, 80v–90v; VIII, 90v–99v; IX, 99v–111v; X, 111v–122r; XI, 122r–136v; XII, 136v–148r; XIII, 148v–160v. The star catalogue contains no numerical data. A few short glosses by the scribe.

Paris, Bibliothèque nationale de France, lat. 7261

s. XV². **Prov.:** Mazarin; library of the kings of France in 1668.

Paper, II + 256 f., a single neat hand (same as in Paris, BnF, lat. 7262 and 7265), initials reserved.

Ptolemaica (single text). Blank: I–II, 255–56.

Bibl. CCMB, IV, 331–32; Monfasani 1984, 43.

1r–254v ‘Tabula XIII librorum Magne compositionis Ptolomei qui liber vulgo Almagesti dicitur. Capitula primi libri Almagesti a Georgio Trapeçuntio traducti sunt hec. Capitulum primum: Prefatio auctoris... (3v) Magne compositionis Ptholomei libri a Georgio Trapeçuntio traducti incipiunt foeliciter. Praefatio auctoris capitulum primum. <P>eroptime mihi videntur, o Syre, qui bene philosophati sunt, speculativam philosophie partem ab activa separasse. Nam etsi active accidat parti — idoneum hic modum atque finem hec est compositio consequuta. Finis. Laudetur Deus. Amen.’
 = **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**. Chapter index, 1r–3r; Book I, 3v–20r; II, 20r–47v; III, 47v–64v; IV, 64v–84r; V, 84r–107v; VI, 107v–128r; VII, 128r–144r; VIII, 144v–159r; IX, 159r–181r; X, 181r–196v; XI, 196v–216r; XII, 216v–233r; XIII, 233r–254v. A few marginal notes by the scribe and perhaps also by another hand.

Paris, Bibliothèque nationale de France, lat. 7262

s. XV². **Prov.:** library of the kings of France before c. 1740.

Paper, I + 258 f., a single neat hand (same as in Paris, BnF, lat. 7261 and 7265), initials reserved.

Ptolemaica (single text). Blank: Ir–Iv (except notes on f. Iv: ‘Claudii Ptolemaei Magne compositionis libri XIII Georgio Trapezunti interprete’ and ‘Nº XXXIII’), 256–58.

Bibl. CCMB, IV, 332; Monfasani 1984, 43.

1r–255v ‘Magne compositionis Ptholomei libri a Georgio Trapesuntio traducti incipiunt foeliciter. Praefatio autoris capitulum primum. <P>eroptime mihi videntur, o Syre, qui bene philosophati sunt, speculativam philosophie partem ab activa separasse. Nam etsi active accidat parti — (252r) idoneum hic modum ac finem hec est compositio compositius (word deleted) consequuta. Finis. Laudetur Deus trinus et unus. Amen’ (followed by diagrams f. 252r–255v).
 = **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**. Book I, 1r–19r; II, 19r–46v; III, 46v–65r; IV, 65r–84v; V, 84v–110r; VI, 110r–131v; VII, 132r–147r; VIII, 147r–161v; IX, 161v–183r; X, 183r–197r; XI, 197r–216r; XII, 216v–232v; XIII, 232v–252r; redrawn diagrams from the various books, 252r–255v. Very few marginal notes by the scribe and by a later hand.

Paris, Bibliothèque nationale de France, lat. 7263

s. XVI² (c. 1571, date assigned to the work by Vincenzo Viviani in his note added f. 391r). **Or.:** autograph of Giovanni Battista Teofilo, made in Urbino. **Prov.:** Vincenzo Viviani (1622–1703), mathematician of the grand duke of Florence, who offered the MS to Louis XIV in 1686 (see his autograph note f. 391r, also f. IIr, IIIr and XVr). Kristeller dates the MS to the end of the 16th or the 17th c., but the present copy, with its numerous corrections in the body of the text, is without a doubt the translator's work. This is confirmed by the accompanying documents, which include two original letters addressed to Teofilo (pieces 4–5 below), and by the general title on f. Ir, which corresponds to the title of the copy prepared for Pope Clement XI in 1717, which is said to have been made from the autograph preserved at the Royal Library in Paris ('ex eius autographo, quod in Bibliotheca Regia Parisiensi servatur', MS → [ZZ] Boncompagni 219, that is, the present MS).

Paper, XVI + 391 f., a single hand, careless and difficult to read (for f. 1–391), with added pieces by several hands f. I–XVI. Folia 75, 101, 118–121, 130 and 134–135 are missing.

Ptolemaica (single text), except for the added pieces f. I–XVI, which include, among others, (1) the general title 'Theonis Alexanrini (!) in Cl<audii> Ptolemaei μεγάλην σύνταξιν commentarius latine versus a Io<hanno> Theophilo Urbinate, ex eius autographo, quod in Bibliotheca Regia Parisiensi servatur, accurate descriptus a<nno> d<omini> MDCXVII [sic for 1717]' (Ir); (2) a letter by Camille Le Tellier de Louvois (1675–1718), librarian of the king, dated 11 July 1717: 'Monitum. Ut primum nuntiatum est cupere S.D.N. Clementem PP. XI copiam sibi fieri Latinae huius interpretationis commentariorum Theonis in Ptolemaeum, consilium statim fuit Romam mittendi singulare exemplar, quod Vincentius Vivianus ante annos triginta Bibliothecae Regiae donavisset...' (IIr–IIv); (3) an anonymous letter to Jacomo Tassoni, nephew of Giovanni Battista Teofilo, dated 1595 (IVr–Vr); (4) an autograph letter from Federico Commandino to Giovanni Battista Teofilo, dated Pesaro 30 May 1571 (VIr, ed. Rose, 305); (5) an autograph letter from Federico Commandino to Giovanni Battista Teofilo, dated Urbino 30 July 1574 (VIIIr–IXv, ed. Rose, 306–07); (6) a copy of piece 4 above (XIv); (7) a copy of piece 5 above (XIIIr–XIVv). Blank: Iv, IIIv, VIv–VIIv, X, XII, XVv–XVIv, 391v.

Bibl. CCMB, IV, 332; *Catalogus translationum et commentariorum*, eds P. O. Kristeller et al., II, Washington, DC, 1971, 212; Kristeller 1963–1992, III, 221; P. L. Rose, 'Plusieurs manuscrits autographes de Federico Commandino à la Bibliothèque Nationale de Paris', *RHS* 24 (1971), 299–307: 300–01.

1r–391r 'Persaepe ab auditoribus admonitus (*sus.* Frequentibus auditorum exhortationibus impulsus), mi (?) Epifani fili, ¶ in (*sus.* ad) ea quae in Mathematica Ptolemaei constructione obscura est — angulus eorundem erit 25. 21. 33.'
= **Theon of Alexandria, (*Commentum in Almagesti*), tr. Giovanni Battista Teofilo (C.1.30.4).** Theon's preface, 1r–3r; Book I, 3v–76r; II, 76v–136r; III, 136r–198r; IV, 198r–231v; V, 231v–278v; VI, 278v–355v; VII, 355v–360v; VIII, 360v–370v; IX, 370v–391r; added note by Vincenzo Viviani, 391r. Numerous corrections by the scribe.

Paris, Bibliothèque nationale de France, lat. 7264

s. XVIIⁱⁿ. **Or.:** Paris, MS copied by and/or under the supervision of David Sainclair. **Prov.:** library of the kings of France before c. 1740.

Paper, I + 452 + 27 pp. (the second part is noted II/1–27), two or several alternating hands, including in the second part.

Ptolemaica (single text). Blank: Iv, 55–56, II/16–18.

Bibl. *CCMB*, IV, 332; Halma 1821, ix; Kristeller 1963–1992, III, 221 (erroneous description).

I–452 ‘(Ir) Theonis Alexandrini commentarius in Magnam Cl<audii> Ptolemaei Syntaxim, quae arab<ice> dicitur *Almagestus*. Item Nicolai Cabasilae archiep<iscopi> Thessal<onici> in tertium eiusd Syntax<ews>. Item Pappi Alexandrini comm<entarius> in quintum eiudem Syntaxews librum. Interprete Davide San-Claro mathematicarum artium quondam professore regio in Academia Parisiensi. (1) Theonis Alexandrini prooemium. Crebrioribus adhortatus a discipulis, o fili Epiphanie, dictare in ea Mathematicorum voluminum Ptolemaei quae omnibus videntur difficilia — structurarum canonum ex proportione sub latitudine. Excudebatur in Regia Anolomasi (!) et cura Iohannis Balderi [Johannes Walderus] anno ab incarnatione domini nostri Iesus Christi 1535 [*sic* for 1538] primo quinti mensis.’

= **Theon of Alexandria, (*Commentum in Almagesti*), tr. David Sainclair (C.1.30.8)**. Title page, I (the verso is blank); Theon’s preface, 1–3; Book I, 3–98; II, 99–150; III, 151–214; IV, 215–250; V, 251–301; VI, 302–380; VII, 381–386; VIII, 387–399; IX, 400–423; X, 423–434 (end missing, due to lacuna, cf. note p. 434: ‘Deficiunt hic ad finem 10, totus XI et principium 12’ and, in the margin, ‘Nota hanc lacunam in partem (?) pag. 406 cod. Graec.’); XII, 434–438 (beginning missing, see above); XIII, 438–452. No geometrical diagrams. Corrections and occasional marginal notes.

II/1–27 ‘(II/1) Cl<audii> Ptolemaei praefatio. Sunt haec ni fallor tentamenta nitidioris et accuratioris tran<s>talionis quam forte postmodum aggressus fuerat David Sanclarus... Pulcherrime mihi videntur qui ingenie philosophati sunt theoreticam philosophia partem ab activa separasse... (II/3) Theonis Alexandr<ini> prooemium. Frequentiori meorum auditorum exhortatione incitatus, fili mi Epiphanie... (II/9) Davidis Sanclari notae in Ptolemaeum et Theonem. Quicumque generoso ingenii spiritu ad altiora — XIII. Canonica prius dictorum angulorum et periphenarum in singulis climatibus explicatio.’

= **David Sainclair, (*Annotationes in Almagesti et Theonem*) (C.1.35)**. Corrections throughout and a few marginal notes, more substantial pp. 11–12.

Paris, Bibliothèque nationale de France, lat. 7265

s. XV². **Prov.:** Mazarin; library of the kings of France in 1668.

Parchment, 297 f., a single neat hand (same as in Paris, BnF, lat. 7261 and 7262).

Ptolemaica (single text).

Bibl. CCMB, IV, 332; Monfasani 1984, 43.

1r–297v ‘Georgii Trapezuntii ad libros Magne Ptolomei compositionis introductio. Capitulum primum de divisione omnis circuli et precipue ꝑodiaci. <Q>uoniam libros Ptolomei de motibus celestium, quibus nescio an quicquam altius ac rationis et scientie via certius inveniri aut fingi possit, ex Greca lingua in Latinam vertimus... (16r) Expositio Magne compositionis Ptolomei a Georgio Trapezunda facta incipit. Lege foeliciter. Codicis huius quem exposituri gratia salvatoris sumus volumina librique XIII sunt, in quibus Ptolomeus intendit erraticarum stellarum et fixarum motus invenire — (297r) maius inter observationes temporis spatium exigit quam vita hominis sit. Laudetur nomen tuum, qui me hoc opus in die felici salutis nostre absolvere voluisti, Christe benedicte, quod in die quam foelici tue incarnationis incoepi absolvi que novem id. mensibus, traductionum vero textus mensibus novem diebus 22, cuius rei testis gravissimus est, tempore pontifex summus Nicolaus quintus, qui volumen traducendum mense Martii tradidit et mense Decem(297v)bris anni eiusdem et librum traductum et commentarios vidit absolutos propter quos postea me destruxit, ut scedule ostendunt, per ignorantissimum Iacobum Cremonensem apposite. Deo gratias. Amen.’

= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.1.19).** Introduction, 1r–15v; Book I, 16r–45v; II, 45v–78r; III, 78r–96r; IV, 96r–111v; V, 111v–147v; VI, 147v–178r; VII, 178v–180v; VIII, 180v–187r; IX, 187r–213r; X, 213r–229r; XI, 229r–244r; XII, 244r–263v; XIII, 264r–297r; colophon, 297r–297v. F. 282–284 are missing due to error in foliation. No glosses.

Paris, Bibliothèque nationale de France, lat. 7266

s. XIII¹ (for f. 1v–47v and 117–135, probably copied in or soon after 1234 acc. Georges; f. 48–116 date from the 13th c. and f. 136–220 were copied in the late 13th c. or early 14th c., in any case after 1291, date of Johannes de Sicilia’s text). **Or.:** England (for f. 1–47 and 117–135 acc. Georges). **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, I + 223 f. MS made of three parts: I, f. 1v–47v and 117r–135v (one hand); II, f. 48r–116v (one hand); III, f. 136r–220v (at least two hands).

Astronomy and mathematics: table of contents of the whole MS, late medieval, listing the Ptolemaic section as ‘Expositiones breves et utiles super Almagesti’ (Iv); *Ptolemaica* (1v–47vb); Albategni, *De scientia astrorum* (48ra–116vb); Alubater [Abū Bakr], *Liber mensurationum*

(117ra–127ra); *Liber Saydi Abuothmi* (127ra–127va); *Liber Aderameti* (127va–128rb); *Liber augmenti et diminutionis* (128rb–135vb); Johannes de Sicilia, *Expositio super canones tabularum Arzachelis sive Toletanarum* (136ra–220vb); scattered notes of chronology, added c. 1300 (222r–223v). Blank: 221. F. 1r and 1v (as well as 1v) contain fragments of non-scientific texts by other hands.

Bibl. CCMB, IV, 332; F. S. Pedersen, *Scriptum Johannis de Sicilia super canones Azarchelis de tabulis Toletanis*, København, 1986, 34–35; Pedersen 2002, 155; M. Moyon, *La géométrie de la mesure dans les traductions arabo-latines médiévales*, Turnhout, 2017, 134–35; M. Moyon, *Le Liber augmenti et diminutionis. Contribution à l'histoire des mathématiques médiévales*, Stuttgart, 2023, 5; Georges (forthcoming).

1v–47vb ‘Ultime hominis promissiones, id est quod ultimo promittitur homini... Bonum fuit scire etc. (3ra) <Notul?>e Almag<esti> [in the margin, hand of the scribe]. Sciendum est universaliora esse preponenda aliis et particularia sensibilia minus sensibilibus — (46vb) 99 partes et fac more solito. Ex radicibus, id est principiis. Explicunt notule Almagesti. (47ra) Sciendum est quod in secundo libro est quiddam quod non est ibi bene enucleatur — operando ut in proximo.’
= **Notule Almagesti (C.1.5)**. Opening, 1v–3ra; I, 3ra–5vb; II, 5vb–10ra; III, 10ra–16rb; IV, 16rb–19ra; V, 19ra–26va; VI, 26vb–32ra; VII, 32ra–33ra; VIII, 33ra–33va; IX, 33va–36ra; X, 36ra–38rb; XI, 38rb–40va; XII, 40va–42va; XIII, 43ra–46vb; additional notes, 47ra–47vb. Substantial glosses by the scribe and by a later reader, who was particularly interested in chronological issues and who mentions the year 1285 on f. 11v. The same reader also glossed f. 48–116 (and mentions the years 1285 on f. 108v and 1300 on f. 82r, 108v and 109v) and added the notes f. 222r–223v.

Paris, Bibliothèque nationale de France, lat. 7267

s. XIII^{ex}–XIVⁱⁿ. **Or.:** Italy. **Prov.:** Pavia, library of the dukes of Milan (before 1426); library of the kings of France in 1499–1500. An added note (14th or 15th c.) on f. 58v reads: ‘Liber spere materialis. Liber Alphagrani phylosophi. Liber mineralium de lapidibus. Mei Iacobi ab Hrd. (?)’.

Parchment, 58 f., one main hand or several similar hands.

Astronomy, astrology, computus, arithmetic and natural philosophy: Sacrobosco, *De sphaera* (1ra–4ra); *Theorica planetarum Gerardi* (4rb–6vb); Raymond of Marseille, *Liber iudiciorum*, beginning only (6vb–7rb); canons of Toledan tables (7va–15rb); Robertus Anglicus, *Quadrans vetus* (15rb–17rb); Sacrobosco, *Computus* (17rb–23vb); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (23vb–24rb); **Ptolemaica (24rb–26rb)**; Ricardus Anglicus (?), *Algorismus minutiarum*, incomplete (26va–27rb); **Ptolemaica (27rb–28ra)**; Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (33ra–40vb); Albertus Magnus, *De mineralibus*, incomplete (41ra–57vb); Pseudo-Thebit Bencora, *De motu octave spere* (58ra–58vb). Blank: 28rb–32v.

Bibl. CCMB, IV, 332; Delisle 1868–1881, I, 127 and 130; E. Pellegrin, *La bibliothèque des Visconti et des Sforza, ducs de Milan, au XV^e siècle*, Paris, 1955, 136–37; Thorndike 1957, 113–14; Pedersen 2002, I, 155–56; Juste 2011–2015, II, 76.

24rb–26rb ‘Visum est nobis ut numeremus intentiones in quibus — est in longitudine longiore aut proprio in ultimo declinationis earum.’
= **Geber, *Liber super Almagesti* (C.1.2)**, excerpts from preface and Books II, VI and VII. No glosses.

27rb–28ra ‘Equator diei est circulus magor (!) qui describitur super duos polos orbis — in cursu igitur stellarum (!) fixarum non videtur diversitas in longitudine...’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**, abrupt end in the middle of a sentence at the bottom of f. 28ra (§ 49 in Carmody) and f. 28rb–32v are left blank. No glosses.

Paris, Bibliothèque nationale de France, lat. 7268

s. XIII^l. **Or.:** English hand (Georges). **Prov.:** Philippe de Béthune (d. 1649); library of the kings of France in 1662.

Parchment, 106 f., a single very neat hand, beautiful MS with decorated initials at the beginning of each book of the *Almagest*.

Ptolemaica (single text). Blank: 104v–106v. A later hand wrote at the bottom of f. 1r ‘Blanchini tabulae astronomicae’, which misled the catalogue of 1744 (CCMB: ‘Ibi continentur *Joannis Blanchini* distinctiones tredecim in Ptolemaei almagestum’) and subsequent scholarship (this MS is unknown to Kunitzsch), with the exception of Thorndike’s brief note.

Bibl. CCMB, IV, 332; L. Thorndike, ‘Giovanni Bianchini in Paris Manuscripts’, *Scripta Mathematica* 16 (1950), 5–12 and 169–80: 6; Georges (forthcoming).

1r–104r ‘Capitulum III: Qualiter sciatur altitudo propter hos arcus cum ponunt aut propter quantitatem diei longioris cum fuerit datus et e converso. Sit ergo illud datum et investigemus inventionem altitudinis poli qui sit arcus — partes quibus duo anguli sunt CCCLX, CCLXXXII partes et XXIII minuta, et erit angulus qui sequitur...’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. II, 1r–17r; III, 17r–26r; IV, 26r–40v; V, 40v–53v; VI, 53v–65v; VII, 65v–75r; VIII, 75v–84r; IX, 84r–96v; X, 96v–103v; XI, 103v–104r. The text is incomplete, running from II.3 to XI.1, due to several missing folia at the beginning and an abrupt end in the middle of f. 104r (the rest of the page is blank). A piece of parchment has been glued on the upper half of f. 1r, making the end of the preceding chapter (presumably II.2) illegible. All geometrical figures are missing. Numerical data of the star catalogue are missing from ‘Stellatio Allore, id est Vultur cadens’ onwards (f. 71v–80r). Very short glosses by a later hand (15th c.?) on f. 17r, 17v, 18v, 19r, 22v, 23r, 24v, 25v, 26r, 28r, 38v, 42v, 49v, 84r, 85r, 91v.

Paris, Bibliothèque nationale de France, lat. 7272

s. XIV¹ (c. 1323 for f. 1–170r, perhaps later for f. 170v–173r). **Or.:** produced at the court of Robert of Anjou, king of Naples (1309–1343). **Prov.:** library of the Aragonese kings of Naples; Charles VIII of France.

Parchment, 173 f., deluxe illuminated MS copied by a single very neat hand for f. 1–170r, except f. 170v–173r, added perhaps somewhat later.

Astronomy and astrology, mainly Andalo di Negro's works: Andalo di Negro, *De sphaera* (1ra–10rb); astronomical table (10v); Andalo di Negro, *Theorica planetarum* (11ra–43va); 'Nomina instrumentorum astrolabii sunt hec: Primo est annulus sive armilla suspensoria...' (45ra–59vb, this text differs from the second part of Pseudo-Messahallah's *De compositione astrolabii*); 'Alius tractatus de spera liber secundus. Mundus est universitas rerum visibilium...' (60ra–67vb); Prophatius Judeus, *Almanach*, prologue (68ra–69rb); Andalo di Negro, comm. on Prophatius Judeus's *Almanach* (69va–84vb, abrupt end due to one or several missing folia); Andalo di Negro, *Theorica distantiarum omnium sperarum* (85ra–99va); astrometeorology 'Quando Sol fuerit in emisperio australi...' (100r); astronomical table (100v); Andalo di Negro, *Introductorius ad iudicia astrologie* (101ra–170ra); Thebit Bencora, *De imaginibus* (170va–171va); **Ptolemaica** (171va–172va); Hermes, *De imaginibus et horis* (172vb–173rb). Blank: 44r–44v, 173v.

Bibl. CCMB, IV, 333; D. Blume, 'Andalo di Negro und Giovanni Boccaccio. Astrologie und Mythos am Hof des Robert von Anjou', in *Medien der Macht. Kunst zur Zeit der Anjous in Italien*, ed. T. Michalsky, Berlin, 2001, 319–35; Juste 2011–2015, II, 76–77.

171va–172va '¶D>ixit Alburabez Benfeliz quod omnes orientales operabantur per has ymagines... Ligatio latronum. Cum volueris ligare latrones ut domum non intrent, figurabis ymaginem viri ex ere — et impetrabis ex eo quod animus tuus desiderat.'
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14).** No glosses.

Paris, Bibliothèque nationale de France, lat. 7282

s. XV² (1468 for f. 25–62; 1466 for f. 73–96). **Or.:** France (f. 25–131 copied by 'P. Boulier', who also annotated f. 1–24). **Prov.:** Etienne Baluze; library of the kings of France in 1719.

Paper, 131 f., two hands (f. 1–24 and 25–131).

Astrology and astronomy: *Theorica planetarum Gerardi* (1ra–4vb); **Ptolemaica** (5ra–13vb); Alcabitius, *Introductorius* (14ra–27vb); table: elections from the aspects of the Moon with the other planets (28r); notes on planets (28v); Thebit Bencora, *De imaginibus* (29ra–31va); **Ptolemaica** (31va–33rb); Messahallah, *Epistola de rebus eclipsium* (33va–34va); astrology 'Luna cum separata fuerit a malo...' (34vb–35va); Albumasar, *Flores* (35va–38va); Albumasar, *Liber experimentorum* (38va–39va); Messahallah, *De cogitatione* (39va–40rb) and selection of chapters from *Liber interpretationum* and *Liber receptionis* (40rb–43va); *Proportiones*

competentes in astrorum industria, 19 (43vb); astrological compilation partly based on Zael's *Liber iudiciorum*, 'De cognitione temporum. Scito quod signa planetarum levium...' (43vb–46ra); John of Ligneris, *Canones primi mobilis* (46va–52vb); 'Compositio astrolabii. Pro confectione astrolabii, recipe tabulam planam...' (53ra–55rb); Cristannus de Prachaticz, *Usus astrolabii* (55va–62ra); Alfonsine tables with canons (73r–131va). Blank: 62v–72r.

Bibl. CCMB, IV, 334; Thorndike 1957, 117–21; Samaran/Marichal 1959–1981, II, 407; Lemay 1999, I, 261–66; Juste 2007, 353; Juste 2011–2015, II, 78–82.

- 5ra–13vb 'Centilogium Ptholomei. Mundanorum ad hoc et ad illud mutatio corporum celestium... Scientia stellarum ex te et ex illis est etc. Astrologus non debet dicere rem specialiter sed universaliter... Quod dicit Ptholomeus, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — et quanto melius quivimus exposuimus. Ptholomeus in hoc loco tricas et tricarum nomina posuit... Stelle autem cum caudis sunt novem — post argentum rosa nigra. Et in hoc est finis huius Centiloquii Deo gratias. Explicit Centiloquium. Amen. Finis Centiloquii. Sit laus Deo. Amen.'
= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, 'Mundanorum' version (C.3.1.3). The text ends with the first words of Pseudo-Ptolemy's *De cometis* (B.4) on f. 13vb (see below). No glosses, except for a couple of marginal corrections, one of which by P. Boulrier on f. 13rb.
- 13vb 'Ptholomeus in hoc loco tricas et tricarum nomina posuit... Stelle autem cum caudis sunt novem — post argentum rosa nigra.'
= **Pseudo-Ptolemy**, *De cometis* (B.4), as part of the *Centiloquium* (see above). No glosses.
- 31va–33rb 'De y<magin>e Ptholomei. Item opus ymaginis Ptholomei quod est omnibus modis proprior et bevacior (?) in probatione quoniam eius effectus constitutus est super facies signorum. Dixit Albunbeth Benfeliz quia omnes orientales operabantur per has ymagines — (33ra) Cumque hoc feceris pervenies ad id quod volueris. Dixit siquidem Hermes editor huius libri... (33rb) Dixit Balemuth: Hora quarta ad apes et ad aves — in montem et omnes ibi convenient. Explicit.'
= **Pseudo-Ptolemy**, *De imaginibus super facies signorum* (B.14). The text closes with excerpts from Hermes's *De imaginibus et horis* (33ra–33rb) and Hermes/Belenus's *De imaginibus diei et noctis*, excerpt (33rb). No glosses.

Paris, Bibliothèque nationale de France, lat. 7292

s. XV^{med} (c. 1434–1443 for f. 30r–41v, see f. 41v; after 1456 for f. 306–328; the whole MS was copied by 1472, see f. 187v). **Or.:** southern France: f. 268–304 copied by 'Iacobus Boullenc' or 'Boulleuc' in Avignon; f. 1–26, 30–48, 53–68, 75–179v and 346–357 copied by 'J. Lequeur'; the scribe of the second Ptolemaic section (f. 334–345) may be the same who copied the astronomical tables of Perpignan in MS Paris, BnF, lat. 7287, f. 158v–166r (Boudet, 36). **Prov.:** anonymous astrologer working in Lyon in the 1470s, who annotated the volume and added

a few texts, including the two horoscopes for 1472 on f. 187v; Simon de Phares; Francis I, King of France (d. 1547).

Paper, I + 357 f., six hands: I ('J. Lequeur'): f. 1–26, 30–48, 53–68, 75–179v, 346–357; II: f. 28, 188–267, 334–345; III ('Iacobus Boullenc'): f. 268–304; IV: f. 306–328; V: f. 346–357; VI (additions by the anonymous astrologer from Lyon): f. 26v–27, 29v, 49–51, 74, 180.

Astrology and astronomy: incomplete table of contents (Iv); John of Ligneris, *Canones primi mobilis* (1ra–9r); Henricus Selder, *Canones tabularum Alphonsinarum* (9r–26v); astronomical notes (26v–27v); notes on eclipses 'Notandum quod duplex est coniunctio Lune cum Sole...' (28r–28v); notes on the nature of the planets and stars (29v); Alfonsine star catalogue (30r–41v), with increments for the years 1434, 1436, 1440 and 1443 'completi' (41v); astronomical-astrological notes, added (42r); 'Nota: Rem occultam et secretam de proprietatibus stellarum fixarum...' (43r–43v); Thomas Aquinas, *De occultis operationibus nature* (44r–45v); Thomas Aquinas, *De iudiciis astrorum* (45v); Petrus de Monte Alcino, *Questio de significationibus cometarum* (46r–48r); **Ptolemaica** (49r–51r); Matheus de Guarimbartis, *De directione et proiectione radiorum et aspectuum* (53r–68r); astrological notes on interrogations, nativities etc. (74r–74v); Haly Abenragel, *De iudiciis astrorum*, Books I–III (75r–179v); astronomical-astrological notes (180r–181v); two horoscopes of revolution for 1472 (187v); Euclid, *Elementa*, anonymous reworking, I–VI.32 (188r–245v); Euclid, *Elementa*, version 'Adelard II', VII–X.24 (247r–267v); *Liber Albandini* (268ra–272vb); Maynus de Mayneriis, *De preservatione ab epidemia* (273ra–276rb); planetary herbal 'Intitulatur eo quod destructionem factam a maiori...' (276va–276^{bis}va); Robert Grosseteste, *De sphaera* (276^{bis}va–281ra); Sacrobosco, *De sphaera* (281ra–287vb); *Astronomia Ypocratis* (287va–289^{bis}ra); Alkindi (?), *De radiis*, fragment (289^{bis}va–290ra); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (290va–292va); astrolabe 'Astrologie speculationis exercitium habere volentibus...' (292va–296vb); Pseudo-Messahallah, *De compositione astrolabii* (296vb–300va); a chapter on finding lost items with an astrolabe 'Nota quod almicantarath sunt circuli ymaginati...' (300va); John of Ligneris, *Algorismus de minutiis* (300va–304vb); Nicolaus de Dacia, *Liber anaglypharum astronomie*, Book I (306r–328v); lunar table (329r); 'Omnis doctrine notitia scientie tunc contextitur...' (330r); **Ptolemaica** (334r–345v); Johannes Gerson, *Tricelogium astrologie theologizate* (346r–353v); Johannes Gerson, *Contra superstitionem dierum observantiam* (354r–356r); Johannes Gerson, *Contra superstitionem sculpture Leonis* (356r–357r); letter from Pierre d'Ailly to Johannes Gerson, 1419 (357r–357v). Blank: 29r, 42v, 48v, 51v–52v, 68v–73v, 182r–187r, 246r–246v, 305r–305v, 329v, 330v–333v (except 'Liber anaglypharum astronomie' written in big letters f. 333v).

Bibl. CCMB, IV, 336; Thorndike 1957, 121–25; Samaran/Marichal 1959–1981, II, 514; Zinner 1964, 8; H. F. Dondaine, H. V. Shooner, *Codices manuscripti operum Thomae de Aquino*, III, Montréal, 1985, 235; Busard/Folkerts 1992, I, 71–72; J.-P. Boudet, *Lire dans le ciel. La bibliothèque de Simon de Phares, astrologue du XV^e siècle*, Bruxelles, 1994, 36–52; Panti 2001, 222; Juste 2011–2015, II, 83–84.

49r–51r 'Sequitur Geber de geometricis theorematibus necessariis in motibus celi cognoscendis. Incipiamus exponere intentiones nominum — dico igitur quod latus AG est maius quadratura circuli.'

= **Geber, *Liber super Almagesti* (C.1.2)**, beginning of Book I without the preface. This part was added by the anonymous astrologer from Lyon. No glosses.

- 334r–345v ‘Quod prius de hac scientia sciendum est, premittendum est summa scientie habitudinis mesure totius terre — tunc manifestum est quod arcus DE obviabit orbi signorum et erit angulus qui videtur...’
 = **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, excerpts from I.2, I.8, II.9–10, V.19, II.11–13, V.19, ending mid-sentence at the bottom of f. 345v. A few glosses by the anonymous astrologer from Lyon f. 338r, 340v–341r, 342r, who also inserted a small sheet of paper with a diagram (= f. 337^{bis}).

Paris, Bibliothèque nationale de France, lat. 7295

s. XV¹. **Or.:** Burgundy, probably Dijon, MS copied for the most part by Henri Arnaut de Zwolle (d. 1466), physician and astrologer to Philip the Good, duke of Burgundy. **Prov.:** Jean Le Fevre (d. 1565), secretary of Cardinal Claude de Longwy (cf. long note in his hand f. 1r, ed. Le Cerf/Labande, VII–VIII); other owners (cf. Le Cerf/Labande, XI); Colbert; library of the kings of France in 1732.

Paper, 143 f. (foliated up to 64 in Roman numerals), two main hands: I, f. 1–18r; II [Henri Arnaut de Zwolle], f. 18v–142v, except for additions by three different 15th-c. hands on f. 111r, 123v–124r, 127 and 132v–135r.

Astronomical and musical instruments: John of Ligneris, *Saphea* ‘Descriptiones que sunt in facie instrumenti...’ (2r–14r); Franco de Polonia, *Tractatus de turketo* (14r–18r); drawings of John of Ligneris’s *saphea* (18v–19r) and of an astrolabe (19v); Jean Fusoris, *Equatorium* (21r–46v); fragment of astronomical tables, added folio (46^{bis}r–46^{bis}v); solar tables for latitudes 50° and 47° (47r–47v); Henri Arnaut de Zwolle (?), treatise on an astronomical clock ‘Pro motu octave spere secundum quem auges planetarum...’ (48r–72r), with drawings (72v–76r); **Ptolemaica** (77r–77v); drawing of an astronomical clock with notes, added folio (77^{bis}r–77^{bis}v); ‘Composicio instrumenti directorii significatoris. Accipe tabulam planam super cuius extremitatem fiat circulus...’ (78r–78v); astronomical diagrams and notes (79r–84v); astronomical tables and diagrams (85v–90v), including a table for 1424–1427 (85v–89r); astronomical notes and drawings (91r–97v); Jacques de Liège, *Speculum musice*, excerpt attr. John of Murs (99r–110v); added notes on musical intervals (111ra–111rb); added tables (123v–124r); added notes and drawings (127r–127v); Henri Arnaut de Zwolle, drawings and notes related to the construction of musical instruments (127r–132r); added tables and notes (132v–135r); drawings and notes related to the construction of machines (137r–141r); ‘Incipit liber Philonis de ingeniis aquarum. In nomine Dei pii et misericordis...’, incomplete (141v–142v). Blank: 1v, 20, 76v, 85r, 98, 111v–123r, 124v–126v, 135v–136v, 143.

Bibl. CCMB, IV, 336–37; H. Omont, ‘Maître Arnault, astrologue de Charles VI et des ducs de Bourgogne’, *Bibliothèque de l’École des Chartes* 42 (1881), 127–28; G. Le Cerf, E.-R. Labande, *Les traités d’Henri-Arnaut de Zwolle et de divers anonymes (ms. B.N. latin 7295)*, Paris, 1932,

2 vols, I, VII–XI and *passim*; E. Poulle, *Un constructeur d'instruments astronomiques au XV^e siècle*. Jean Fusoris, Paris, 1963, 200–05; Zepeda 2018, 73.

77r–77v ‘Opus armillarum Ptolomei capitulo primo disctionis quinte Almagesti. Querantur primo due armille convenientis mesure — vicinior vero est consideracio. Compositio instrumenti declinacionis Solis. Opus instrumenti declinacionis Solis. Sume laterem ligneum vel lapideum — si Sol umbram in omni meridie circa utrumque maxime solsticiū observaveris.’
= *Almagesti minor* (C.1.4), excerpts from V.1 and I.15 (on instruments).
No glosses.

Paris, Bibliothèque nationale de France, lat. 7298

s. XIII^{ex}–XIVⁱⁿ (after 1295, cf. solar tables verified 1293–1295 f. 60r–61r; the year 1294 mentioned by the scribe in the margin of f. 1v; later (?) mentions of the years 1323 and 1325–1327 in the margin of f. 3r and 60r–61r). **Or.:** northern French (the calendar f. 1v–7r contains northern French feasts, cf. Pedersen 1983–1984), perhaps Paris. **Prov.:** Philippe Desportes in 1589 (f. 1r: ‘Ex libris Philippe Portaeus 1589’); Colbert; library of the kings of France in 1732.

Parchment, I + 176 f., a single neat hand, painted initial at the beginning of each section, numerous decorated initials.

Astronomy: table of contents dated 1549 (Iv); Petrus de Dacia, *Kalendarium* (1ra–7r); computus tables (7v–8v); Balduinus de Mardochio or Marrochio, *Computus manualis* (9^{bis}ra–15va); Sacrobosco, *Algorismus* (15va–20rb); Sacrobosco, *De sphaera* (20rb–29rb); *Algorismus de fractionibus* ‘Cum multis de numeris tractatus vidisses...’ (29va–30vb); Robert Grosseteste, *De sphaera* (31ra–36va); Sacrobosco, *Computus* (36va–54va); Robertus Anglicus, *Quadrans vetus* (54va–59ra), with solar tables verified 1293–1295 (59rb–61r); Pseudo-Messahallah, *De compositione astrolabii* (61va–75va); *Theorica planetarum Gerardi* (75va–81rb); Pseudo-Thebit Bencora, *De motu octave spere* (81vb–84ra); **Ptolemaica** (84ra–86vb); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (86vb–88ra); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (88ra–89va); Robert Grosseteste, *Computus*, including material from Campanus of Novara (89va–107rb); *Liber de motibus planetarum* (107va–111vb); Guillelmus Anglicus, *Astrologia* (111vb–124vb); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (124vb–142rb); Campanus of Novara, *Theorica planetarum* (142rb–174rb). Blank: 9r–9v, 175–176.

Note This MS is closely related in content to ↗London, BL, Harley 3647.

Bibl. CCMB, IV, 337; Benjamin/Toomer 1971, 86–89; Pedersen 1983–1984, I, 264; Panti 2001, 233–34; Pedersen 2002, I, 157–58; Nothaft 2018, 173; Lohr/Nothaft 2019, 38; Lohr 2025, 110*.

84ra–86vb ‘Incipit liber Thebith Benchorath de his que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — in oppositione Solis aut propinqui oppositi erunt retrogradi.

Expletus est liber Thebith filii Core de his que indigent expositione antequam legatur Almagesti.’

= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Paris, Bibliothèque nationale de France, lat. 7302

s. XV^{med}. **Or.:** France (?). **Prov.:** anonymous astrologer working in Lyon in the 1470s, who annotated the MS in several places; Simon de Phares; Jehan Roussel; Francis I, king of France (1515–1547).

Paper, 144 f., two hands (f. 1–130v and 133v–144v).

Astrology: **Ptolemaica (1ra–102vb)**; Sadan, *Excerpta de secretis Albumasar* (109ra–130va); **Ptolemaica (133v–144v)**. Blank: 103r–108v, 131r–133r.

Bibl. CCMB, IV, 338; J.-P. Boudet, *Lire dans le ciel. La bibliothèque de Simon de Phares, astrologue du XV^e siècle*, Bruxelles, 1994, 54–57; Juste 2011–2015, II, 88–89.

1ra–102vb ‘Incipit liber quatuor tractatum Ptholomei Alfillud in sciencia astrorum iudiciorum, in quo sunt 60 capitula. Et in primo tractatu sunt 24 capitula. Capitulum primum in collectione intellectus sciencie iudiciorum astrorum... (1va) Rerum, Yesure, in quibus est prognosticabilis sciencie stellarum profectio magnas et precipuas duas esse deprehendimus — (101vb) hoc in loco huic libro finem imponere non incongruum existimamus. (102ra) Cum projectionem radiatorum — locus radiacionis equate. Explicit Quadripartitum Ptholomei de iudiciis astrorum.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 1va–20va; II, 20va–40rb; III, 40rb–78rb; IV, 78rb–101vb; Pseudo-Ptolemy’s *Liber projectionis radiatorum stellarum* (B.6), 102ra–102vb (see below). Glosses by the scribe, which often open ‘Sensus huius littere est...’ and which also use Haly Abenrudian’s commentary. From II.3 (22vb) onwards, these glosses have also been inserted into the text, in smaller script (e.g. f. 22vb: ‘Superius dixit Tholomeus quod primus dominus huius triplicitatis est Sol...’).

102ra–102vb ‘Cum projectionem radiatorum stellarum scire volueris, scias gradus ascendentis — et quod collectum fuerit erit locus radiacionis equate. Explicit Quadripartitum Ptholomei de iudiciis astrorum.’

= **Pseudo-Ptolemy, *Liber projectionis radiatorum stellarum* (B.6)**, as part of the previous text. Glosses by the scribe.

133v–144v ‘In primis tractatibus nostris notavimus per dicta Ptholomei que rationabiliter conveniunt in hac arte... Bene sufficit nobis id quod universaliter sumus locuti super hiis in quibus debet homo inspicere — sunt laboriose dicte mulieres et servientes, etc.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**, II.1–3. No glosses.

Paris, Bibliothèque nationale de France, lat. 7303

s. XV. **Prov.:** Charles-Maurice Le Tellier (d. 1710), archbishop of Reims; library of the kings of France in 1700.

Parchment, 123 f., several contemporary hands (at least five hands for f. 4–103 and one hand for f. 104–123). Several folia are missing between f. 119 and 120.

Astrology: diagram of the twelve signs (1ra); Leopold of Austria, *De astrorum scientia*, excerpts from various books (1ra–3ra); **Ptolemaica** (4va–103va); Pseudo-John of Seville, *Epitome totius astrologie* (104ra–117ra); Albohali, *De nativitatibus*, tr. Johannes Toletanus, end gone (117ra–119vb); Aomar, *De nativitatibus*, beginning gone (120ra–120vb); ‘Apertio portarum dicitur cum...’ (120vb–121rb); ‘De caristia. Cum volueris segetus prenoscere...’ (121rb–121va); *Epistola Argafalau ad Alexandrum*, 2 (121va–121vb); ‘Cum aliquis ad questionem venerit, statim constitue ascendens...’ (121vb–122va); Zael, *De interrogationibus*, 80–96 (122va–123vb). Blank: 3rb–4r.

Bibl. CCMB, IV, 338; Juste 2007, 356; Juste 2011–2015, II, 89–90.

4va–103va ‘Scire et intelligere gloriosum est quia omnis sapientia a Deo... (5ra) Quadripartitum Ptholomei cum commento Haly [title in upper margin]. Verba que dixit sapientissimus Ptholomeus in arte iudiciorum super hiis... (5vb) <R>es, Mizori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — (101ra) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Et sic est finis istius. <V>olo in hoc loco dare tibi exempla trium nativitatum ut melius intendas quidquid locuti sumus in eis, et prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te diriget in viam rectam. Explicit Quadripartitum Ptholomei cum commento Haly.’
= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 4va–4vb; Haly’s preface, 5ra–5vb; I, 5vb–29vb (end missing); II, 30ra–51va; III, 52ra–82va; IV, 83ra–101rb; Haly’s appendix, 101rb–103va. No glosses.

Paris, Bibliothèque nationale de France, lat. 7304

s. XV¹ (the text was probably copied in 1425, see f. 119v). **Prov.:** the MS belonged to a frater Hugo of the Order of Cluny in the 15th c. (f. 119v: ‘Spectat presens liber fratri Hugoni Ordinis Cluniacensis’); Charles IX of France.

Parchment, 121 f., a single neat hand, reserved initials. Blank: 120r–121v.

Ptolemaica (single text).

Bibl. CCMB, IV, 338; Samaran/Marichal 1959–1981, II, 515; Juste 2011–2015, II, 90.

1r–119v ‘Dicit Egidius de Thebaldis Longobardus de civitate Parmen<si>: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (1v) <V>erba

que dixit sapientissimus Ptholomeus in arte iudiciorum astronomie... (3r) <R>es, Misori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — posuit in hoc libro sunt regule et radices quibus ars ista componitur. Iohannes semper Alexandri. Benedictus Deus. Explicit liber quadripartiti Th<olome>i cum glosa Aly Abenrudiani Egipti philosophi, continens tractatus 12 pro... (?). Anno domini 1425 [date in the margin, hand of the scribe].’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 1r–1v; Haly’s preface, 1v–3r; I, 3r–36v; II, 36v–65v; III, 66r–99r; IV, 99r–119v. No glosses. Occasional marginal notes by the scribe.

Paris, Bibliothèque nationale de France, lat. 7305

s. XV^{ex} (1493, cf. f. 185v, 287v, 346r and 353r). **Or.:** most probably France, perhaps copied under the supervision of Conrad Heingarter or shortly after his death. **Prov.:** Jacques-Auguste de Thou (d. 1617); Colbert; library of the kings of France in 1732.

Paper, 354 f., a single hand, decorated initials f. 4r and 6r.

Ptolemaica (single text). Blank: 1r–3v, 353v–354v.

Bibl. CCMB, IV, 338; Samaran/Marichal 1959–1981, II, 409; Préaud 1969, XIII–XIV and XVIII; Juste 2011–2015, II, 90.

4r–353r ‘Ad illustrissimum Iohannem Borbonii atque Alvernie ducem Conradi Heingarter Thuricensis, doctoris, medici et astrologi, in Quadrupartito Ptholomei commentarios prefatio. Eam fauste gubernari rem publicam inclite dux docta illa prisce vetustatis asserit... (6r) Stellarum iudicium (quam astrologiam vocant) est scientia a principiis certis proveniens... (7v) Liber quadripartiti Ptholomei, id est quatuor tractatum in radicandi discretione per stellas de futuris et in hoc mundo constructionis et destructionis contingentibus, cuius in primo tractatu sunt 24 <capitula>. Capitulum primum in collectione intellectus scientie iudiciorum astrorum. Prohoemium. Rerum, Iesure, in quibus est prognosticabilis scientie stellarum profectio magnas et precipuas duas esse deprehendimus. Alia translatio: Res, Misori, quibus prognosticationes accepte de astronomia maiores et notabiliores due sunt. Commentum. Dixit Ptho<lome>us quod res quibus ars prognosticationum perfecte completur maiores et nobiliores sunt due, scilicet astro<nomi>a quadrivialis et ars iudiciorum astrologie — (346r) sunt regule et radices quibus ars ista componitur. Laus Deo trino et uno. Amen. Habes excellentissime princeps commentaria que ego Conradus Heingarter — tua cunctis temporibus florebit. Explicit liber 4 Ptho<lome>i in radicali discretione per stellas de futuris et in hoc mundo constructionis et destructionis contingentis, anno 1493, die Novembris 20, hora 9. (346v) Dixit Hali Alben Rudiani: Volo in hoc loco dare exempla trium nativitatum ut melius intendas quicquid locuti sumus in eis — Hec sunt que tibi glosavi in quibus mentem et studium apponas et Deus te dirigat in viam

rectam. Volui autem probare utrum ille auctor secundum nonam speram vel secundum octavam procederet et inveni per loca planetarum que ponit in figura sue nativitatís quod ipsa fuit annis Christi perfectis 986, mensibus 10, die 15 Ianuarii, qua die equavi planetas secundum tabulas Machabeorum (!) et inveni sic. Benedictus Deus trinus et unus. Amen. Τελος. Forsan et hec olim meminisse vivabit. In Novembri die 22, hora 19, anno currente 1493.'

= **Conrad Heingarter, *Commentum Quadripartiti Ptholomei* (C.2.10)**. Conrad Heingarter's preface, 4r–5v; Book I, 6r–94v; II, 95r–185v; III, 186r–287v; IV, 288r–346r; Conrad Heingarter's conclusion, 346r; Haly's appendix, 346v–353r; additional note, 353r. Ptolemy's lemmas are given in both Plato of Tivoli's and Egidius de Tebaldis's translations in alternating sequence. Occasional short marginal notes by the scribe.

Paris, Bibliothèque nationale de France, lat. 7305A

s. XVII¹ (after 1604).

Paper, 99 f. numbered 1–80 and 1–19, with the latter part to be read from the end of the volume, a single hand difficult to read.

Astrology and classics: ***Ptolemaica* (1r–80v)**; excerpts from classical authors (second part, 1r–18r; f. 18v–19v are blank).

Bibl. *CCMB*, IV, 529–30; Juste 2011–2015, II, 90.

1r–80v 'Discerpta (?) ex Cardano in sententiis (?) in Ptolemaeum. Luna in tertia ... (?) et Saturnus in sexta in Libra... (16r) Collecta ex secundo libro Ptolemaei et ex Cardani libro... (50r) Notabilia collecta ex libro tertio Quadripartiti Tolomei. Nota primum quod Cardanus in praefatione in eum librum observat Ptolomeum non esse auctorem Centiloquii...'

= ***Notabilia collecta ex Cardano in Quadripartitum Ptolemaei* (C.2.39)**. Book I, 1r–15v; II, 16r–31r; III, 31r–36r; additional astronomical/astrological material, 37r–42r (f. 42v–49v are blank); Book III again from its beginning, 50r–59v (f. 60r–61r are blank); additional astronomical/astrological material, 61v–80v. Book IV is ignored. Corrections and marginal notes by the scribe.

Paris, Bibliothèque nationale de France, lat. 7306

s. XV. **Prov.:** 'St Michael Radulphus' (f. IIv); Jacques Mentel (d. 1670), professor at the faculty of medicine, Paris.

Paper, II + 100 f., a single hand, hard to read.

Astrology and astronomy: ***Ptolemaica* (1r–14v and 15r–16r)**; Hermes, *Liber de accidentibus*, excerpts (16r–17v); Cristannus de Prachaticz, *Usus astrolabii* (17v–24v); Haly Embrani, *De*

electionibus horarum (25r–35v); *Liber novem iudicum*, excerpts (36r–42r); Zael, *Liber iudiciorum* (42v–57v); Haly Abenragel, *De iudiciis astrorum*, excerpts (58r–60r); ‘In sciendo domini anni Hermes. Quando volueris agnoscere domini anni aspice...’ (60r–64r); Pseudo-John of Seville, *Epitome totius astrologie* (64v–87r); Messahallah, *Liber receptionis* (87r–93r); Messahallah, *Epistola de rebus eclipsium* (94r–95r); Zael, *Liber temporum*, chs 1–3 (95r–95v); table of contents by the scribe (96r–100r, this table shows that the MS once contained John of Saxony’s comm on Alcabitius’s *Introductorius* starting on f. 98, immediately after Zael’s *Liber temporum*). Blank: Ir–IIr, 93v, 100v.

Bibl. CCMB, IV, 338; Lemay 1999, I, 266–67; Juste 2011–2015, II, 91.

- 1r–14v ‘Ihesus, Maria, incipit Centilogium Tholomei. Iam scripsi tibi, Ieisure, libros super his que operantur stelle in universo... Astrologus non debet dicere rem specialiter sed universaliter... Expositio. Quidem dixit Thol<ome>us, ex te et illis, significat qui res futuras scire — Intravitque filius Alchalig in Egiptii. Quicquid dicit Tholomeus facere (?) quod malui exponere. Τελως.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. No glosses.
- 15r–16r ‘Sequuntur significationes acceptae in signalibus superioribus secundum institutionem (?) Ptholomei capitulo 13 secunde partis eius Quadripartiti et eius Haly Abenrudian ... (?) expositionem (?). Dixit Haly: Monstravimus iam quod signalia superiora accidunt — pronosticationes que erunt in nativitatibus hominum secundum quod convenit ordine (?). Expliciantur significationes Ptholomei acceptae in signalibus.’
= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**, II.13 (without Haly’s final commentary). No glosses.

Paris, Bibliothèque nationale de France, lat. 7307

s. XIII^{ex} (14th c. acc. Pellegrin, but a note added by a later hand on f. 1v mentions the year 1301: ‘circa 2 Maii vel 1301...’). **Or.:** Italy. **Prov.:** Pavia, library of the dukes of Milan (before 1426).

Parchment, I + 53 + II^a f., a single neat hand, reserved initials.

Astrology: **Ptolemaica** (1r–17v); *Capitula Almansoris* (18r–21v); Zael, *De electionibus*, attr. Messahallah (22r–29v); Zael, *Liber temporum* (29v–33v); Messahallah, *Epistola de rebus eclipsium* (33^{bis}v–35v); Albumasar, *De revolutionibus annorum mundi* (36r–52v); notes on the movement of the eighth sphere ‘<M>otus 8 spere currit annuatim 30 secunda...’ (52v–53r); drawing of the rete of an astrolabe (53v). Blank: 33^{bis}r.

Bibl. CCMB, IV, 338–39; E. Pellegrin, *La bibliothèque des Visconti et des Sforza, ducs de Milan, au XV^e siècle*, Paris, 1955, 129; Thorndike 1957, 127–31; Lemay 1999, I, 267–69; M. Azzolini, *The Duke and the Stars. Astrology and Politics in Renaissance Milan*, Cambridge (Mass.)–London, 2013, 41; Juste 2011–2015, II, 92–93.

- 1r ‘<D>ixerunt Ptholomeus et Hermes quod locus Lune in hora — ex hoc expertus fuit multociens.’

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). No glosses.

- 1r–1v ‘Tolomeus dixit quod stelle cum cauda sunt novem — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). A couple of marginal notes by the scribe and by a later hand.
- 1r–17v ‘<D>ixerunt Ptholomeus et Hermes quod locus Lune in hora — ex hoc expertus fuit multociens. Tolomeus dixit quod stelle cum cauda sunt novem — (1v) in regibus et divitibus apparebit. <D>ixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... (2r) <S>cientia stellarum ex te et illis est... Expositio. Quod dixit Ptolomeus, ex te illis (!), significat quod qui res futuras prenosceret desiderat — tunc in Egypto quicquid dixerat Ptholomeus, hoc est quod ego malui exponere in hoc libro et credo quod ydoneum est suis rationibus et perfecta eius expositio.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, except for the end of the text (at least from the comm. on v. 97), given in the ‘Iam premisi’ version (C.3.1.4). The text opens with Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 1r (see above) and *De cometis* (B.4) on f. 1r–1v (see above). A few short marginal notes by the scribe and by a later hand, including drawings f. 8v, 9v, 11r, 11v, 14v, 16r, 17r. The same later hand left a long commentary on v. 16 f. 4v–5r, continued f. 5v: ‘Cum prefuerint fortune etc.: Preesse stellam alicui loco...’

Paris, Bibliothèque nationale de France, lat. 7308

s. XV². **Prov.:** Colbert; library of the kings of France in 1732.

Paper, 76 f. a single neat hand, reserved initials.

Ptolemaica (single text). Blank: 76v.

Bibl. CCMB, IV, 339; Monfasani 1984, 43; Lemay 1999, I, 398; Juste 2011–2015, II, 93.

- 1r–76r ‘Liber Claudii Ptolomei qui vocatur fructus ad illustrissimum Alfonsum regem Aragonum et utriusque Siciliae a Georgio Trapenzuntio ex Greco in Latinum versus. <L>ibrum Claudii Ptolomei mihi Alfonsi rex inclite traductum quem vulgo Centiloquium ipse fructum appellat... (3r) Liber Claudii Ptolomei qui vocatur fructus ad illustrissimum Alfonsum regem Aragonum et utriusque Siciliae a Georgio Trapenzuntio ex Greco in Latinum versus. <I>am pridem perutiles ad providendum operationes stellarum, o Syre, quas in hoc composito efficiunt mundo exposuimus... Primus aphorismus. Abs te et a scientia, non est enim possibile ut huius scientie professor particulares rerum ideas prevideat — (10v) Sin vero non moventur hostis indigena erit. Finis. (11r) Commentarii et expositiones Georgii Trapenzuntii in aphorismis libri fructus Ptolomei ad Alfonsum regem

Aragonum et utriusque Sicilie. <L>ibellus hic quem de Greco traductum nomini tuo dedicavimus, illustrissime rex... (12v) Abs te et a scientia. Abs te, inquit, hoc est a quadam insita vi animi et ingenio et a scientia nature stellarum precognitio fit — ut sicut raro apparent, sic inconsueta significare videantur.’
 = **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**. George of Trebizond’s preface, 1r–2v; author’s preface, 3r; text, 3r–10v; commentary, 11r–76r. No glosses.

Paris, Bibliothèque nationale de France, lat. 7309

s. XV². **Or.:** ‘northern hand’ (Monfasani). **Prov.:** François Rasse des Neux (d. 1581), cf. f. 1r: ‘Franciscus Rassius Nociis, chirurgus Par<isiensis>, 1580’; François Roger de Gaignières (d. 1715); library of the kings of France in 1711.

Paper, 83 f., a single hand, reserved initials.

Astrology: ***Ptolemaica* (1r–68r)**; George of Trebizond, *Liber de antisciiis et cur astrologorum iudicia plerumque fallant* (68v–82v). Blank: 83.

Bibl. CCMB, IV, 339; Monfasani 1984, 43; Lemay 1999, I, 398–406; Juste 2011–2015, II, 93–94.

1r–68r ‘Liber Claudii Ptholomei qui vocatur fructus ad illustrissimum Alfonsum regem Aragonum et utriusque Siciliae a Georgio Trapezuntio ex Greco in Latinum versus. <L>ibrum Claudii Ptholomei mihi Alfonse rex inclyte traductum quem vulgo Centiloquium ipse fructum appellat... (2v) <I>am pridem perutiles ad providendum operationes stellarum, o Syre, quas in hoc composito efficiunt mundo exposuimus... Primus aphorismus. Abs te et a scientia, non est enim possibile ut huius scientie professor particulares rerum ideas prevideat — (9v) Sin vero non moventur hostis indigena erit. Finis. Commentarii et expositiones Georgii Trapezuntii in aphorismis libri fructus Ptolomei ad Alfonsum regem Aragonum et utriusque Siciliae. (10r) <L>ibellus hic quem de Greco traductum nomini tuo dedicavimus, illustrissime rex... (11r) Abs te et a scientia. Abs te, inquit, hoc est a quadam insita vi animi et ingenio et a scientia nature stellarum precognitio fit — ut sicut raro apparent, sic inconsueta significare videantur.’
 = **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**. George of Trebizond’s preface, 1r–2r; author’s preface, 2v; text, 2v–9v; commentary, 9v–68r. No glosses.

Paris, Bibliothèque nationale de France, lat. 7316

s. XV. **Or.:** France, perhaps Avignon (cf. f. 187r–189v). One ‘Petrus Triboul’ copied at least f. 46–132 and 157–168 (cf. his name f. 132v). **Prov.:** Antonello Petrucci (d. 1487); library of the Aragonese kings of Naples since Ferdinand I (acc. Mazzatinti); Francis II.

Paper, 199 f., several contemporary hands.

Astrology: Albumasar, *Introductorium maius*, tr. John of Seville (1r–76r); Messahallah, *De revolutionibus annorum mundi* (76v–80v); Gergis, *De significatione septem planetarum in domibus* (80v–82r); Messahallah, *De cogitatione* (82r–82v); Messahallah, *Liber interpretationum* (82v–84r); Leopold of Austria, *De astrorum scientia*, excerpt from Book V ‘Cometa est vapor terreus...’ (84r–84v); Albumasar, *De magnis coniunctionibus* (85r–132v); Albumasar, *Flores* (133r–140r); **Ptolemaica (145r and 145r–145v)**; ‘Incipiunt aggregationes abbreviate super libros iudiciorum astrologie sive flores auctorum iudiciorum. Scientia astrorum dividitur in duo, in demonstrationes que sunt certe sine errore et in scientia iudiciorum...’ (145v–148r); ‘Incipiunt flores Hali in libro de electionibus horarum. Si conceptus hominum noverimus...’ (148r–149v); ‘Incipiunt flores. Dominus anni est dominus ascendentis...’ (149v–150r); *Capitula Almansoris* (150v–152v); Hermes, *Centiloquium* (152v–154r); ‘Scito quod in isto capitulo est magnum secretum quod nescit...’ (154r); ‘De partibus omnium fructuum terre. Pars tritici a Sole in Martem...’ (154v); ‘Pro nubium quidem agnitione habenda conventus oppositionis horas...’ (154v); ‘De aeris mutatione et pluviis. Quotiens igitur de pluviis eorum que...’ (154v–156r); ‘Sciendum est quod in omni nativitate...’ (156r); table ‘Tabula valens ad plures operationes astrologorum et medicorum’ (156v); **Ptolemaica (157r–167r)**; Hermann of Carinthia, *Liber imbrum*, fragment (167r–168v); ‘Si vis scire pluvias in toto anno, aspice quando Sol intrat...’ (168v); Messahallah, *Epistola de rebus eclipsium* (169r–170v); Alkindi, *De mutatione temporum* (170v–177v); Jafar, *De pluviis et ventis* (177v–178v); on plants, in French and Latin (179r–180v); Messahallah, *Epistola de rebus eclipsium*, non-standard version ‘Incipit astronomia Moyssaalha in rebus eclipsis... Dixit Moyssaalha: Creator creavit terram ad modum rote...’ (181r–182r); ‘Notandum est quod quando fit eclipsis Solis...’ (182r); Zael, *Liber iudiciorum* (182r–184v: *Quinquaginta precepta* and beginning of *Introductorium*); ‘Incipit recapitulatio totius libri Abhuali Alcayet de locis planetarum...’ (184v–186v); calculus of the victorious and the vanquished ‘Si quis voluerit scire de duobus contentionem habentibus quis eorum vincet...’ (186v); table of houses for Avignon (187r–189v); ‘Liber abbreviatus per fratrem Hugolinum de Faventia ordinis Sancti Augustini, qui ea tantum excerptis quae ad astrologiam iudiciariam pertinebant. Omissis multis que spectant ad philosophiam naturalem que in libro Guidonis Bonafors ponuntur...’ (190r–199r); ‘Aries. Nil capiti facias...’ (199r–199v); ‘Omnis questio in qua inveneris Lunam fortem...’ (199v). Blank: 140v–144v.

Bibl. CCMB, IV, 339–40; Delisle 1868–1881, I, 191 n. 1; G. Mazzatinti, *La biblioteca dei re d’Aragona in Napoli*, Firenze, 1897, 51–52 (no. 109); Thorndike 1957, 131–33; Lemay 1995–1996, IV, 141–51; Lemay 1999, I, 269–70; Juste 2011–2015, II, 95–98.

145r ‘De cometis sive stellis caudatis et diversis significationibus earum secundum signa in quibus aparuerint. Tolomeus dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

145r–145v ‘De hora conceptionis et nativitatis. Dixerunt Ptholomeus et Hermes quod locus Lune in hora — expertus fuit multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. The text is followed by a chapter dealing with the same topic: ‘De mora nati in utero matris. Cum Luna fuerit in gradu ascendentis hora infusionis — gradum Arietis pervenerit fetus nascetur. Idem est in aliis.’ No glosses.

157r–167r ‘Dixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Ptholomeus. Scientia stellarum ex te et illis est... Haly. Quod dicit Ptolemeus, ex te et illis est, significat quod qui res futuras prenoscere desiderat — et ego Deum deprecor ut te diligit. Et perfecta est huius libri translatio 17^a die mensis Martii, 12^a die Iumedi (*sus.*: scilicet mensis) secundi anno Arabum 530. Ptolomeus. Explicit.’
 = **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1).** A few glosses by the scribe.

Paris, Bibliothèque nationale de France, lat. 7316A

s. XIV¹. **Or.:** Italy or Spain for f. 1–88; f. 89–188 were intended for the use of an astrologer in Spain (cf. astronomical tables for Seville, Toledo and Valladolid f. 116v–117r and for Toledo, Valladolid, Seville, Cordoba and Murcia f. 118v–125r; ascension tables for latitudes 30°–45° f. 125r–132r; tables of houses for Toledo and Valladolid f. 132v–138r; tables of houses also for Florence f. 138v–139r). This astrologer may well be Alfonsus Dyonisii of Lisbon (d. 1352, on him see C.2.2, Note 3), for the MS also preserves the only known copy of an astrological text on the rectification of nativities translated by him in Seville in 1334 (f. 180r, only the last page survives due to missing folia). In the colophon (ed. Thorndike, 136–37), Alfonsus presents himself as physician to King Alfonso IV of Portugal (reigned 1325–1357) and to his daughter, Maria, queen of Castile and León, i.e. Maria of Portugal (1313–1357), who married King Alfonso XI of Castile in 1328. In the same colophon, Alfonsus also mentions his own astronomical tables for the meridian of ‘Succa’, which, as Thorndike suggested, might be a mistake for Lucca. This suggestion is all the more plausible, because the above-mentioned tables of houses for Florence f. 138v–139r are attributed to one ‘master Al.’, whom it is tempting to identify with Alfonsus. Lucca is just 60 km west of Florence and at the same latitude, so that the tables of houses would be valid for both cities. **Prov.:** Antonello Petrucci (d. 1487); library of the Aragonese kings of Naples since Ferdinand I.

Parchment, III + 188 + IV^a f., MS made of two parts, the first of which (f. 1–88, decorated initials) is copied in a very neat hand. The second part (f. 89–187) was copied by at least two hands. One or several folia are missing between f. 179 and 180.

Astrology and astronomy: Albumasar, *Flores* (1ra–18rb); Alfraganus, *De scientia astrorum*, tr. John of Seville (19ra–45ra); Pseudo-John of Seville, *Tractatus pluviarum et aeris mutationis* (45ra–47rb); Bethen, *Centiloquium* (47rb–50ra); ‘Cum prima facie Arietis ascendit forma hominis nigri...’ (50ra–50rb); **Ptolemaica (50rb–51ra)**; Messahallah, *Epistola de rebus eclipsium* (51ra–52vb); Pseudo-John of Seville, *Epitome totius astrologie*, excerpt ‘De his stellis hoc modo continetur in tractatu magistri Iohannis Yspale<nsis>. In Ariete est unum de syderibus...’ (52vb–53rb); *Capitula Almansoris* (53rb–57vb); Alkindi, *De mutatione temporum* (57vb–69va); Messahallah, *In pluviis et ventis epistola* (69va–71vb); Messahallah, *Liber receptionis* (71vb–85ra); ‘Cum interrogatus fueris de thesauro vel de aliqua re occulta...’ (85ra–88rb); astronomical tables with canons (89r–179v), including Alfonsine tables (141r–163v) and John of Saxony’s *Canones* copied in the margin (117v–128v and 141v–163v); treatise on the rectification of nativities translated by Alfonsus Dyonisii of Lisbon in 1334, last page only

due to missing folia (180ra–180rb); astronomical tables with canons (180v–187v), including Alfonsine star catalogue (182r–183v). Blank: 18v, 88v, 188.

Bibl. CCMB, IV, 340; Delisle 1868–1881, I, 229 and 242; G. Mazzatinti, *La biblioteca dei re d'Aragona in Napoli*, Firenze, 1897, 74 (no. 199); Thorndike 1957, 133–38; Juste 2011–2015, II, 98–99.

50rb–51ra ‘De creticis diebus in continuis febribus et acutis iuxta Ptolomeum secundum quod Lune status invenerit certificemus. Ad quod oportet scire Lunam in zodiaco 8 proportiones habere. Prima et principalis est existentia gradus in quo cum Sole est, et dicitur coniunctio — quod si eundo obviat malignis vel fixis que dicuntur puthei sentiet eger passionis detrimentum.’
= *De creticis diebus in continuis febribus et acutis* (C.3.7). No glosses.

Paris, Bibliothèque nationale de France, lat. 7320

s. XIII² (after 1262, date of the translation of Albumasar’s *De revolutionibus nativitatium*, f. 1–24, now placed at the end of the MS). **Or:** Paris, the MS was prepared for Peter of Limoges and remained in his possession until his death *c.* 1306. **Prov.:** college of Sorbonne in 1306; Colbert; library of the kings of France in 1732.

Parchment, 92 f., foliated 37–104 and 1–24 by Peter of Limoges. These two parts, each copied by a single neat hand and glossed by Peter of Limoges throughout, belong to what once was a large astrological compendium of at least 339 folia, to which Peter of Limoges refers in the glosses of several MSS (including this one) under the title ‘Liber magnus iudiciorum.’

Astrology: *Capitula Almansoris* (37r–40v); Guillelmus Anglicus, *De urina non visa* (40v–43v); *Astronomia Ypocratis* (44r–47v); Abraham Avenezra, *De terminatione morborum* (44r–46r, added by Peter of Limoges in the margins of the preceding text); Messahallah, *Liber receptionis* (48r–58v); **Ptolemaica** (61r–104v); Albumasar, *De revolutionibus nativitatium* (1r–24v). Blank: 59–60.

Note From Peter of Limoges’s own cross-references given in his various MSS, we learn that this volume also contained at least the following texts: Peter of Limoges, comm. on Richard of Fournival’s *Nativitas*; Albohali, *De nativitatibus*; Albumasar, *Introductorium maius*; Pseudo-John of Seville, *Epitome totius astrologie*; Albumasar, *De magnis coniunctionibus*; Albumasar, *De revolutione annorum nativitatium*; and what is probably the *Glosa super 60 propositionem Centilogii Ptholomei* (C.3.2), to which Peter alludes in a gloss on f. 44r: ‘et ponit Ptolomeus in Centiloquio proposicione 60a, ut patet per commentum ibi, ut patet per figuram 8 angulorum, de qua ibi loquitur et de qua ibi notavi, scilicet Libro magno iudiciorum, 339 folio, pagina prima’ (ed. Birkenmajer, 24). Moreover, from the catalogue of the library of Sorbonne compiled in 1338 — which is not always complete and reliable —, Miolo (Miolo 2017, I, 407–09) was able to add the following texts: Jafar, *De pluviis et ventis*; Messahallah, *Epistola de rebus eclipsium*; Messahallah, *De cogitatione* (and, possibly, Messahalla, *Liber interpretationum*, which often follows the *De cogitatione*); Zael, *Liber iudiciorum* (at least the *Introductorium*); a text inc. ‘Signorum qualia sunt masculini generis...’, which can

be either Pseudo-Ptolemy, *Iudicia* (B.3) or Pseudo-Aristotle, *Iudicia*; one ‘Item experimenta vel signa ad respondendum de infirmis’; Albumasar, *De revolutionibus annorum mundi*, and, perhaps, Pseudo-Ptolemy’s *Centiloquium*, tr. Plato of Tivoli (B.1.2/C.3.1.1), which occurs in the 1338 catalogue between Zael and the *Iudicia*, although without the characteristic shelfmark denoting the present volume. The title given in the Sorbonne catalogue is ‘Liber fructuum arboris Ptolomei’, otherwise found only in MS $\rightarrow$ Erfurt, UFB, Dep. Erf. CA 4^o 361.

Bibl. CCMB, IV, 340; A. Birkenmajer, ‘Pierre de Limoges commentateur de Richard de Fournival’, *Isis* 40 (1949), 18–31: 23–28 (reprinted in Birkenmajer 1970, 222–35); Moulinier-Brogi 2011, 93 and 229–30; Juste 2011–2015, II, 100–01; Miolo 2017, I, 404–12 and *passim*; Steel/Vanden Broecke 2018, 69–70.

61r–104v ‘In nomine domini misericordis et pii. Incipit liber IIII tractatum Ptolomei Alfaludhi in scientia iudiciorum astrorum a Platone Tiburtino de Arabico in Latinum translatus. Tractatus primus est in quo IX capitula sunt. Capitulum primum in collectione intellectus scientie iudiciorum astrorum. Dixit Ptolomeus: Rerum, Iescuri, in quibus est pronosticabilis scientie stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libri finem inponere non incongruum existimamus. Amen.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1).** I, 61r–71r; II, 71r–81r; III, 81r–96r; IV, 96r–104v. Substantial glosses, mainly by Peter of Limoges, but also, occasionally, by the scribe and by a third hand (e.g. f. 62v–63r). Glosses in Arabic on f. 73r (same in Oxford, BL, Digby 51, see Plate 2). These glosses, which are probably contemporary with the copy, appear in the margin and in an added diagram showing the four regions of the world, with their Arabic names, associated with the four triplicities (ch. II.3).

Paris, Bibliothèque nationale de France, lat. 7329

s. XIV² (1378 for f. 52v–54r, cf. f. 54rb: ‘anni domini fuerunt (?) 1378 incompleti’; a date probably roughly valid for the whole MS, cf. the great conjunction of 1365 referred to in the past tense f. 39r and table of eclipses 1340–1386 f. 126r). **Or.:** probably Italy. **Prov.:** library of the Aragonese kings of Naples, 15th c.; library of the kings of France before c. 1740.

Paper, 139 f., several similar hands.

Astrology, astronomy and philosophy: Guido Bonatti, *Liber introductorius ad iudicia stellarum*, Books I–IV and X (1r–39r); horoscope of the great conjunction of 1365 (39r); Zael, *De electionibus* (40ra–45vb); Zael, *Introductorium* (46ra–49va); Zael, *Quinquaginta precepta* (49va–50rb); *Astronomia Ypocratis* (50va–52vb); Messahallah, *Epistola de rebus eclipsium* (52vb–54rb); five short paragraphs ‘De parte fortune in nativitatibus diurnis...’ (54rb); **Ptolemaica (60r–63r)**; *Liber novem iudicum*, excerpt ‘Quando graviores sunt aut leviores. Omar. Utrum autem aliquando proferatur...’ (63r–66r); Jafar, *Liber imbrium* (66v–73v); Hermann of Carinthia, *Liber imbrium* (73v–75v); ‘De determinatione (?)

ducum questionis et rei quesite. Quia ducis indagatio dignior est...' (78r–84r); Alcabitius, *Introductorius*, I.1–23 (84v–87r); short philosophical texts (89ra–91rb), including Pseudo-Seneca, *De iusticia* (89rb–90vb) and Pseudo-Seneca, *De moribus* (89vb–90vb); 'Liber iste extractus de libro qui dicitur vasilographi...' (98r–107r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (107v–108r); canons of Alfonsine tables, including a few tables (109ra–138v), of which: table of eclipses 1340–1386 (126r); zodiacal chorography 'Aries: Francia, Florentia, Faventia, Ancona...' (126v); Alfonsine star catalogue, fragments (135r–135v and 138r–138v). Blank: 39v (except for a short note), 54v–59v, 76r–77r, 87v–88v, 91v–97v, 108v, 109v, 132–134, 139.

Bibl. CCMB, IV, 341–42; Juste 2011–2015, II, 109–10.

60r–63r 'Dicta Tholomei de eclipsisibus ... (?) 4 capitulum secundi tractatus Alarbe [title added in upper margin by another hand]. Tractatus de eclipsisibus luminarium et significationibus [title in margin by the scribe]. Post hanc predictorum observationem qualiter futura — observatio nuncupari debet.'
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**, II.4–10. A few glosses by two or three hands, including the scribe's.

Paris, Bibliothèque nationale de France, lat. 7333

s. XIII^{ex}–XIVⁱⁿ. **Or.:** France. **Prov.:** perhaps Conrad Heingarter, cf. gloss f. 14r: 'In hoc climate est situs Bellepartice' (possibly in Conrad's hand), i.e. the castle of Belleperche (see Paris, BnF, lat. 7432); Colbert; library of the kings of France in 1732.

Parchment, III + 70 f., a single neat hand, decorated initials.

Astronomy: two tables of contents by a later medieval hand, one very detailed (Iva–IIrb) and a shorter one (IIv); table of contents by another late medieval hand (IIv–IIIv); Bernard of Verdun, *Tractatus super totam astrologiam* (Ira–48ra); astrolabe drawings (48rb–48v); Franco de Polonia, *Tractatus de turketo* (49ra–52va); 'In compositione almanach sic procede et primo de Sole inprimis...' (52va–54va); *Theorica planetarum Gerardi* (54va–63rb); Pseudo-Thebit Bencora, *De motu octave spere* (63rb–65va); **Ptolemaica (65vb–68va)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (68va–69vb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (69vb–70vb).

Bibl. CCMB, IV, 342.

65vb–68va 'Incipit liber Thebit de his que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos — aut propinqui oppositioni erunt retrogradi. Expletur est liber Thebith filii Core de hiis que indigent expositione antequam legatur Almagestis (!).'
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. A few glosses by a later medieval hand.

Paris, Bibliothèque nationale de France, lat. 7337

s. XV² (pp. 1–119 and 221–240), XV¹ (pp. 121–170a), XV^{ex}–XVI¹ (pp. 181–220) and XVIⁱⁿ (pp. 170b–174). **Or.:** northern Italy, this MS is closely related to MS [→]Vatican, BAV, Vat. lat. 4085. **Prov.:** Colbert; library of the kings of France in 1732.

Paper, 240 pp., several hands, one of which copied pp. 1–119.

Collection of texts, short tracts and fragments of magic, astral magic, astrological medicine, astrology, divination and natural philosophy: Antonius de Monte Ulmi, *De occultis et manifestis* (1a–9b); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (9b–18a); ‘Tempus farmachandi eligere. Sciendum quod triplicitas aquea generaliter commendatur...’ (18b–19b); ‘Precipuum Deum meum oro quamdiu est in medicina mea ut in cor meum...’ (19b–25b); Antonius de Monte Ulmi, *Glosa super imagines duodecim signorum Hermetis* (26a–27b); Thebit Bencora, *De imaginibus* (27b–32a); Cecco d’Ascoli, comm. on Sacrobosco’s *De sphaera* (32b–41b); **Ptolemaica (41b–45a)**; Antonius de Monte Ulmi (?), *Experimentum naturale, verum et ineffabile ad expellendum inimicum de regno, civitate, castro, villa, domo et de omni loco ut volueris* (45a–46b); *Liber Zaelis de imaginibus*, excerpt ‘Nomina angelorum planetarum. Nomina angelorum planetarum secundum Zaelem...’ (46b–47a); ‘Figure sive imagines triplicitatum signorum. Ignee. Nota quod Aries, Leo et Sagittarius sculpti in lapidibus...’ (47a–47b); ‘Imagines siderum extra zodiacum. Artici circuli circumferentiam Caput Draconis sustinet...’ (47b–50b); ‘Doctrina imaginum secundum modernos duodecim vultum coelestium. Signatum est super nos lumen vultus tui...’ (50b–53a); ‘Duodecim signorum imagines medicinales. In principio huius tractatus est sciendum quod quemcumque astrologica impressio...’ (53a–53b); ‘Figure planetarum. Saturnus est homo senex, in manu dextera tenens falcem...’ (54b); ‘De imaginibus septem planetarum. Iovis ymago fit existente eo in Cancro...’ (55a–56b); ‘Lune dispositio in electionibus. Cum fuerit Luna cum Capite vel in Cauda in uno signo est dies cavenda in omnibus operibus...’ (56b–57b); ‘Luna in signis. In Ariete bonum est terras emere et eas arare...’ (57b–58b); Pseudo-Aristotle, *De Luna* (58b–60a); ‘De aspectibus Lunae cum planetis per singula signa. Triplicitas (!) Lunae dextra a Saturno per signa. Aries: Bonum ad inquisitionem rerum a regibus et occursu regum...’ (60a–75); ‘Sunt et alii dies in anno secundum Arabes nimis periculosi...’ (75); Gergis, *De significatione septem planetarum in domibus* (76–77); *Astronomia Ypocratis* (78a–84b); ‘Notabilia medicandi. Notandum quod cum ceperimus curare egrotantes oportet quod Luna sit in aspectu...’ (84b–109b); Arnold of Villanova, *Libellus de improbatione maleficiorum* (110a–114a); Costa ben Luca, *De phisicis ligaturis*, attr. Arnold of Villanova (114a–116a); Pseudo-Arnold of Villanova, *De sigillis* (116b–119b); ‘De sculpturis lapidum per observationem astronomicam. Quod non in vita philosophorum largitio contulit...’ (121a–129a); Thebit Bencora, *De proprietatibus quarundam stellarum* (129b–130b); Pseudo-Pietro d’Abano, *Annulorum experimenta* (131a–138a); Hermes/Enoch, *Liber imaginum signorum* (138a–140b); Muḥammad ibn Sirin, *Oneirocriticon* (141a–164a); ‘Incipit liber de auguriis sternutamentorum. Si quis vult ad plenum scire de sternutamentis...’ (165a–170a); Hippocrates, *De insomniis* (170b–173b); Galen, *De somniis* (174a–174b); added notes ‘Scientia augurandi aliter tradenda...’ (180); ‘Cum divina providentia mundus constet ex 4 elementis, scilicet igne...’ (181–197); ‘De introitu gatti in foramina. Luna in Ariete aliquam prebet causam, in Tauro...’ (201–202); ‘Incipit liber de auguriis sternutationes...’ (202, same as pp. 165–170, beginning only); *Alchandreana* ‘De horis. Si tibimet (?) in animo ad bella

has horas...' (203–205); 'Aspectus Lune cum planetis singulis. Coniunctio cum Saturno: Dies cavenda et nullum bonum est in ea...' (206); 'Incipiunt tabule Salomonis secundum loca Lune. Luna in Ariete gaudium et letitiam significat, in Tauro...' (207–208); 'Si aliquis voluerit interficere aut capere inimicum suum Maurum vel Christianum...' (209); diagram on ascension of signs, with note (210); table for computing the zodiacal position of the Moon (211) 'Signorum alia mobilia, alia stabilia, alia mediocris (!) quecumque...' (211–213, this text is unrelated to Pseudo-Ptolemy's *Iudicia*); 'Expositio nominum astrologorum. Alithifof, id est...' (213); 'De libro introductorii Rasis extracta. Membra corpora id est corporis alia sunt...' (214–215); 'De significatione tonitruui. Signo Arietis si tonuerit Luna crescente, annone habundantie significat...' (216); *Liber vacce* (221a–233b); *experimenta* (233b–235b); Ibn al-Jazzār, *De proprietatibus* (235b–237a); 'Et in libro Hermetis...' end gone (237a–240b). Several chapters of onomancy have been added by a 16th-c. hand on originally blank sections pp. 104, 109b, 119b–120b and 175–177. Blank: 178–179, 198–200, 217–220.

Bibl. CCMB, IV, 343; L. Thorndike, *The Sphere of Sacrobosco and Its Commentators*, Chicago, 1949, 71–72; Weill-Parot 2002, 602–05 and 894–96; Arnaldi de Villanova *opera medica omnia*, VII.1: *Epistola de reprobacione nigromantice fictionis (De improbatione maleficiorum)*, ed. S. Giralt, Barcelona, 2005, 206–08; J.-P. Boudet, 'Magie et illusionnisme entre Moyen Âge et Renaissance: les *Annulorum experimenta* attribués à Pietro d'Abano', in *Médecine, astrologie et magie entre Moyen Âge et Renaissance: autour de Pietro d'Abano*, eds J.-P. Boudet, F. Collard, N. Weill-Parot, Firenze, 2013, 247–93; 263–69; Juste 2011–2015, II, 113–17.

41b–45a 'Pthlomeus (!) de ymaginibus. Opusculum Ptholomei et est omnibus modis prior et veracior in proprie actione constitutus super signorum facies secundum quod dixit Ptholomeus qui edidit hunc librum de ymaginibus super facies signorum. Qui ergo voluerit operari ex horis provideat... Dixit Hermes, huius rei primus inventor: Lustravi plures ymagines... Dixit Abuzeber Benselit: Omnes orientales operabantur per has ymagines... (44b) Cum volueris ad odium aliquod provocare, aspice Solis diem — cumque hoc feceris pervenies ad id quod volueris et impetrabis ab eo quod animus tuus desiderat. Item dixit: Non fiat aliquam (?) ymaginem alicuius operis quin non imponantur nomina dierum et horarum cum caractulis planetarum secundum quod opus est sigilla, enim secundum Aristotelem dicuntur spiritus planetarum et eius effectus. Finis.'

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, same divergent version as in MS [→]Vatican, BAV, Vat. lat. 4085, including the presence of the two excerpts from Hermes's *De imaginibus et horis*. No glosses.

Paris, Bibliothèque nationale de France, lat. 7348

s. XIV. **Prov.:** Pietro de Guevara (d. 1487); library of the Aragonese kings of Naples since Ferdinand I.

Parchment, 109 f., several similar hands or, perhaps, one main hand. Folia are missing in several places.

A practitioner's handbook made of texts, notes and fragments of medicine, astrology, geomancy and astronomy, among others: fragment of a text of dialectic (1ra–2rb); geomantic figures (2v); geomancy 'Quoniam sapientes scienciam astrologie latam nimium...' (3ra–6vb); end of a text of computus (7ra); 'Aries est signum mobile, orientale, calide...' (7ra–7vb); Guillelmus Anglicus, *De urina non visa*, chs 3–4 'De corpore humano. Saturnus habet aurem dextram, splenem, vesicam...' (8ra–8rb); *Astronomia Ypocratis* (8rb–9vb); Zael, *Liber iudiciorum* (10ra–14vb: *Introductorium*, *Quinquaginta precepta* and *De interrogationibus* incomplete); comm. on Aristotle's *Metaphysica* 'Quemadmodum ait Aristoteles in quarto Methaphisice circa idem versatur...' beginning only (15ra–15vb); fragments on the astrolabe (16ra–17rb and 19ra–19rb); Hermes, *Centiloquium* (17va–19ra); fragment of a text of geomancy (20ra–20vb); **Ptolemaica (21ra–21vb)**; 'De significatoribus. Prima domus scilicet ascendens significat...' (21vb); 'Infirmus utrum sanetur vel moriatur. Aspice ascendens, ascendens enim significat medicum...' (22ra–25rb); geomancy 'Acquisitio quando proteratur a populo et a se ipsa...' (25rb–26rb); notes and figures of geomancy (27r); recipe and incomplete diagram of an astrolabe (27v); notes of computus (28ra–28v); chapter index of a treatise *De simplici medicina* (29ra–34va); *Concordantie medicine* (35ra–106vb); notes of logic (107r); notes and tables of astronomy (108r–108v). Blank: 19v, 107v.

Bibl. CCMB, IV, 345; Delisle 1868–1881, I, 229 and 242; Lemay 1999, I, 421; Juste 2011–2015, II, 122–23.

21ra–21vb 'Incipit Centiloquium Ptolomei. Verbum primum. Astrologus non debet dicere rem specialiter sed universaliter... Expositio Haly. Et oportet nos esse sollicitos circa mundana — et augebit fortuna prosperitatem sui esse.'
 = **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, selection from v. 1, 3, 5, 7, 9–10, 12, 14, 19–22, 41–42, 54–55, 57, 60–61, 74, 86 and 92. No glosses.

Paris, Bibliothèque nationale de France, lat. 7349

s. XV. **Or.:** southern France (several texts in Occitan). **Prov.:** Colbert; library of the kings of France in 1732.

Paper, 141 f., at least two hands (in chronological order, I: f. 5r–105r; II: f. 2r–4r and 106r–141r).

Astrology, astral magic, geomancy, divination and computus: notes of astrology and geomancy in French and in Occitan (2r–4r); diagram of celestial spheres, with notes (5r–5v); 'Incipit Zael de signis 12 in zodiaco celi. Signa diversificantur ad invicem quia quedam sunt masculini sexus...' (5v–7r); 'Et nota quod si aliquis per opinionem voluerit vel per opinionem medicorum confortare virtutem retantivam...' (7r–8r); 'Hic sequitur declaratio coniunctionum omnium planetarum et eorum effectus. Notandum est etiam quod duplex est coniunctio planetarum...' (8r–9v); 'De planetis comatis. Coma idem est quod torta sed si qua stella cometur in oriente significat destructionem principis...' (9v–10r); 'Nota de regionibus signorum. Nota quod influentia coniunctionum planetarum cadit super locum ubi est regio...' (10r–10v); 'Nota etiam quod prenosticatio anni que habet accidere partibus mundi secundum diversitatem 12 signorum...' (10v–13r); *tonitruale* 'Incipi (!) presagium tonitruorum Bede in quolibet mense. Et primo in

mense Ianuarii tonitruum sonuerit ventos validos...’ (13r–14v); Hermes/Enoch, *Liber imaginum signorum* (14v–18r); *Figure septem planetarum* ‘Incipit liber de septem figuris septem planetarum in lamibus (?)’ Scias quod in istis septem figuris antiqui philosophi sapientes occultaverunt...’ (18r–20v); Gergis, *De significatione septem planetarum in domibus* (20v–24r); ‘Incipiunt diffinitiones membrorum corporis humani et eius infirmitatem secundum Albumasar. Saturnus habet splenem et vesicam...’ (24r–24v); on the native of the 12 signs ‘Omnium istorum inferiorum vita divinatura superioribus ut habetur primo Metheorum...’ (24v–31v); *lunarium* ‘Luna prima quidquid videris in gaudium vertetur...’ (31v–32v); ‘Item videamus de influentiis planetarum. Et primo de Sole. Unde si quis natus fuerit hora Solis, sanguinis complexionis erit...’ (32v–33r); ‘Iste Saturnus habet Iovem pro inimico sed habet Mercurium pro amico...’ (33r); ‘Aquarius est signum firmum, calide et humide nature et dat hominem mediocris stature...’ (33r–37v); rules for computing the zodiacal position of the Moon (37v); ‘Ad inveniendum dies Egypciacos. Augurio decies audito...’ (37v–38r); Petrus de Dacia, *Kalendarium*, fragments (38r–38v); ‘Sicut sunt quatuor elementa ita sunt 4 humores...’ (38v–40r); ‘Sequitur de arte algorismi. Et nota primo quod 9 sunt chiffre seu figure...’ (40r–40v); Petrus Hispanus, *Tractatus mirabilis aquarum* (41r–45r); *sortes* ‘Lege istos psalmos... A significat vitam vel potestatem...’ (45v–46r); *Revelatio Esdrae* ‘Hyemps bona erit, ventosum...’ (46r–46v); *tonitrualia* ‘Si igitur tonaverit in prima feria mensis Ianuarii mors principum...’ (46v); recipes and divination (47r–48r); *Somniale Danielis* (48v–51r); rule for computing the age of the Moon (51r); Pseudo-Aristotle, *De physiognomia* ‘Discipuli quasi quidem Ypocrasis (!) viri peritissimi...’ (51v–54v); Albumasar (?), *Liber similitudinum*, preface (56r); Petrus de Dacia, *Kalendarium*, fragments (56v–67r); circular diagrams and notes on terms, exaltations, lunar mansions etc., in Latin and French (67v–69v); calculus of the victorious and the vanquished ‘Alphabetum de infirmo et de pugillantibus...’ (70r); circular diagram on the aspects (70v); ‘Nota quos (!) Luna stat in coniunctione Solis...’ (71r–72r); Robertus Anglicus, comm. on Sacrobosco’s *De sphaera*, incomplete (72v–84v); ‘Sol moratur in quolibet signo per 30 diebus et 10 horas...’ (84v–85r); *Proportiones competentes in astrorum industria*, 42–43 (85r–86v); ‘Sequitur de Saturno ... (?) secundum suam ... (?)’, etc. Saturnus itaque est homo fuscus, non albus...’ (86v–87r); ‘Prima die Marcii levantur stelle 9, nomine Saphe et faciunt fortune tres dies...’ (87v–88r); ‘Si vis scire de aliquo viro vel mulieri egrotante utrum moriatur vel evadat...’ (88r–88v); ‘Si vis scire qualiter se habet amicus tuus vel amica tua absens...’ (88v); *Benedictum sit nomen domini...*, 4 (88v); ‘De duobus fratribus nomina debent numerari...’ (88v–89r); ‘De muliere nomina debent numerari...’ (89r); ‘Quia A significat vitam vel potestatem in populo, B bonam vitam...’ (89r); table of lunar mansions (89v–90r); diagram of celestial spheres (90r); ‘Sciendum est quod tempus habet plure partes...’ (90v); ‘Incipit ciromancia. Linea vite si sit grossa...’ (90v–94r); *tonitruale* ‘De significationibus tonytruorum quando contingunt in 12 signis. Si tronytruum (!) contingit in Ariete, erit eclipsis, ortologia erunt multa...’, added by the second hand (98v); ‘Incipiunt anuli Salamonis. Notandum est secundum ea ad quem tendimus quod primo vero oportet scire et notare quid est nobilium Lune...’ (99r–101r); ‘Scito diem, punctos, horas cum renovatur...’ (101v–103r); magical formulas, crossed out (103v); recipes and magical formulas (104r and 105r); geomancy in Occitan (106r–114v); Pseudo-Arnold of Villanova, *Liber experimentorum*, in Occitan (115r–118r); notes of astrology and geomancy in Occitan (118v–119v); calendar in Occitan (120r–126r); Pseudo-Arnold of Villanova, *De sigillis* (127r–129v); Hermes, *Lectura geomantie* (130v–138r); **Ptolemaica (138v–141r)**. Blank: 1v, 4v, 55, 58v, 94v–98r, 104v, 105v, 126v, 130r, 141v.

Bibl. CCMB, IV, 345; Pedersen 1983–1984, I, 264–66; T. Charmasson, ‘*Lectura geomanciae*’, in *Hermetis Trismegisti astrologica et divinatoria*, eds G. Bos, C. Burnett et al., Turnhout, 2001 [Corpus Christianorum. Continuatio Mediaevalis, 144C], 349–97: 358–66; A. Calvet, ‘*Le Liber experimentorum* attribué à Arnaud de Villeneuve’, in *Alchimies, Occident-Orient*, eds C. Kappler, S. Thiolier-Mejean, Paris, 2006, 127–37; Juste 2007, 356–57; K. Bernard, ‘Un texte de géomancie en occitan médiéval: un opusculé du manuscrit BN. lat. 7349’, *Cahiers d’Épistémé* 2 (2008), 31–58; Juste 2011–2015, II, 123–27.

138v–141r ‘Incipit archanum magni Dei revelatum Ptolomey regi arabice de reductione ad orbem. Per hoc presens opus possunt cognosci exquisite presenciam, preterita et futura — Cauda * [geomantic figure of the Dragon’s Tail] inutile.’
= **Pseudo-Ptolemy, *Archanum magni Dei de reductione geomancie ad orbem* (B.17)**. No glosses.

Paris, Bibliothèque nationale de France, lat. 7350

s. XVIⁱⁿ (perhaps c. 1510, cf. date 9 June 1510 written by the scribe in the upper margin of f. 136r). **Or.:** the MS preserves the astronomical and astrological teaching delivered at the University of Cracow in the late 15th c. (numerous mentions of the years 1483–1488 throughout) and derives at least partly from a MS of Johannes Virdung of Hassfurt (cf. f. 16r: ‘... excipisse ex tabulis magistri Iohannis de Asfur...’, f. 125v: ‘... ex libro magistri Iohannis de Hasfurt’, f. 219v: ‘... hec de revolutione nativitatis scripsit magister Iohannes de Asfurt manuscriptum’). The MS is indeed very close in content to ¹Vatican, BAV, Pal. lat. 1439, a MS copied in Cracow by Johannes Virdung mainly in 1487–1488, even though it does not seem to have been copied on it. **Prov.:** Colbert; library of the kings of France in 1732.

Paper, 339 f., a single hand.

Astronomy and astrology mainly, in a collection of texts, excerpts and notes poorly distinguished from one another and in a hand sloppy and difficult to read. Most recognisable items include: table *De electionibus secundum cursum Lune per XII signa* (70v–71r); **Ptolemaica (71v–73v)**; Johannes de Glogovia, *Summa astrologie*, Book II (74r–96r); ‘Partitiones alie quas astrologi in suis iudiciis attendunt. Inquit autor summe Anglicane et Iafar in tractatu de imbris...’ (96r–98r); **Ptolemaica (98r–98v)**; Albertus de Brudzewo, judgement on a nativity of 6 April 1445 (99r–108v); Albertus de Brudzewo (?), *Canones concernentes nativitatem nati* (108v–125v); Albertus de Brudzewo, judgement on the solar eclipse of 1487 (126v–133v); Albertus de Brudzewo, judgement on the great conjunction of 1484 (134r–137v); Albertus de Brudzewo, prognostication for 1487 (137v–149v); horoscopes for 1487–1488 (150r–153r); Petrus Gaszowiec, *De mutatione aeris* (153v–157v); Cristannus de Prachaticz, *Compositio astrolabii* (169v–184v); judgement on a nativity of 20 December 1448 in Prague (184v–193r); Johannes de Glogovia, *Summa astrologie*, Book IV (193v–195v); Albertus de Brudzewo, *Commentariolum super Theoricas novas Georgii Purbachii*, excerpts (220r–223v), with a comm. composed in 1491 (224r–235v); Bartholomeus de Frizo, astrological judgement on the advent of the Antichrist in 1503 (235v–236v); ‘Instrumentum coniunctionum et oppositionum. Pro compositione instrumentum coniunctionum et oppositionum...’ (248v–255r); ‘Ut in

compositione nostri instrumenti progrediamur...’ (255v–263v); **Ptolemaica (263v–264v)**; notes ‘Iudicia astronomica non necessitant...’ (264v); ‘Et (?) cum Albumasar (?) loco allegato (?) quod dominus (?) orbis est planeta ad quem pervenit...’ (265r–277r).

Bibl. CCMB, IV, 345; E. Poulle, ‘Activité astronomique à Cracovie au XV^e siècle’, in *Actes du XI^e congrès international d’histoire des sciences (Varsovie-Cracovie, 1965)*, Wrocław, 1968, III, 45–50 (reprinted in E. Poulle, *Astronomie planétaire au Moyen Âge latin*, Aldershot, 1996, XIV); Rosińska 1984, 556 (index); Markowski 1990, 317–18; Juste 2011–2015, II, 128–30.

- 71v–73v ‘Astrologus non debet dicere rem universaliter sed specialiter, ut qui considerat — qui fuerit in angulo et duo termini Lune natura rei cum (?) Haly.’
= **Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), tr. Plato of Tivoli (C.3.1.1)**, v. 1–4, 8–10, 12, 14, 19–23, 27, 29, 33, 37–39, 41, 43–44, 46, 48, 51–53, 56–57, 59–61, 71–72, 74, 86, 80, 91–92, 94, 97 and 90. The commentary is omitted in most cases and the propositions are sometimes summarised. No glosses. ‘Centiloquium Ptolomei’ at the bottom of f. 72r.
- 98r–98v ‘Est alius modus iuxta verbum 34. Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare. Sit tempus datum geniture — figura celi constituatur que erit finaliter rectificata.’
= **Albertus de Brudzewo (?), Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare (C.3.17)**. No glosses.
- 263v–264v ‘Nature particulares signorum et facierum earum quas ponit Ptolomeus secundo Quadripartiti, c<apitulo> 11, verificate per magistrum Petrum Gaschowicz medicine doctorem. Totum signum Arietis facit tonitrua et relampagos — (Pisces) faciens grandinem <de natura> Saturni’ (in the form of a table).
= **Petrus Gaszowiec, Tabula de naturis particularibus signorum et facierum (C.2.7)**. No glosses. Followed by the note: ‘Octava spera a tempore Ptolomei usque huc mota est 19 gradus et quasi per 2 facies recessit octava spera a nona.’

Paris, Bibliothèque nationale de France, lat. 7377B

s. XII^{ex}–XIIIⁱⁿ (for f. 1–82, the rest of the MS seems to date from the 14th and 15th c.). **Or.:** Italian hand (f. 1–82; the same hand copied MS ↯Vatican, BAV, Vat. lat. 3100). **Prov.:** ‘Iste liber pertinet Iohanno Colpard de Tornaco [Tournai]’ (f. 141v, 15th-c. hand, perhaps the same that copied f. 122–140 — this owner’s note apply perhaps to f. 122–140 only); Colbert; library of the kings of France in 1732.

Parchment and paper, 143 f., composite MS made of four parts, each copied by a single hand (f. 1–82, 83–98, 99–121, 122–140). Folia 61–81 are in disorder and should be read 79, 63–77, 80, 78, 61–62, 81, as partly worked out by a modern hand that has re-numbered the displaced folia with remarks in French.

Geometry and astronomy (f. 1–82): notes on Euclid's *Elementa* (1r–9r); notes on Alubater [Abū Bakr], *Liber mensurationum* 'Questio prima et secunda. Prima DCG satis per se patet...' (9v–37v); 'Hec probationes sunt necessarie in theoremate undecimo partis secunde libri Theodosii de speris...' (38r–60v, on this section, see Geber's *Liber super Almagesti* (C.1.2), under Note); Thebit Bencora, *Liber carastonis*, beginning missing (79r–79v and 63r–65v); Thebit Bencora, *De figura sectore*, tr. Gerard of Cremona (66r–72v); **Ptolemaica (73r–77v, 80r–80v, 78r–78v, 61r–62v and 81r–81v)**. Blank: 82. The other parts of the MS include: 'Geometrie due sunt partes principales...' (83r–89r); Archimedes, *Tractatus de incidentibus in humidum corporibus* (89v–94r); Campanus of Novara, *De proportionibus et proportionalitate* (94v–98r); Alfraganus, *De scientia astrorum*, tr. John of Seville (99r–119v); Johannes Damascenus, *Aphorismi* (122r–125v); Curatus de Ziessele, *Compendium theologiae naturalis ex astrologica veritate sumptum* (126r–140v); various added notes by at least two hands, including a table of contents (141v). F. 98v, 120–121, 141r and 142r–143v are blank.

Bibl. CCMB, IV, 349; Juste 2011–2015, II, 135.

(61r–81v) '(73r) Planispermium Ptolomei Hermannii Secundi translatio. Quemadmodum Ptolomeus et ante eum nonnulli veteris auctoritatis viri antiquas seculi scribunt ystorias... (74r) Cum sit possibile, Iesure, et plurimumque necessarium ut in plano represententur circuli in speram corpoream incidentes — (62v) cum ipsis circulis tropicis et cum circulis meridianis signa distinguuntibus. <C>apitulum quod non est de libro quod edidit Abualcacim Maslem filius Hameti. Dixit Maslem filius Hameti: Iam rememoratus est Ptolomeus in hoc libro — (81v) et quod volueris de scientia tabularum et laus sit Deo creatori gentium. Explicit liber anno domini MC quadragesimo tercio, kal. Iunii Tolose translatus.'

= **Ptolemy, *Planispermium*, tr. Hermann of Carinthia (A.6.1)**, Class II. Translator's preface, 73r–74r; text, 74r–62v; Maslama's Extra Chapter, 62v–81v. Folia are in the wrong order and should be read 73r–77v, 80r–80v, 78r–78v, 61r–62v and 81r–81v. Glosses by the scribe.

Paris, Bibliothèque nationale de France, lat. 7395

s. XVI¹ (copied in 1536–1538). **Or.:** personal notebook of Nicolaus Gugler, then student at the University of Wittenberg (inner front cover: 'Est scriptus iste liber Witaeburgae per Nicolaum Gugler anno salutis nostrae 1536, tunc temporis astronomiae et medicinae studiosum'; f. 1r: 'Per me Nicolaum Gugler astronomiae et medicinae studiosum, 1536'), except f. 332–370, copied in Johannes Schöner's house in Nürnberg on 30 November 1538 (f. 332r: 'descriptum ex manu sive chyrographo Gaurici anno 1538 adj. ultimo Novembris Norimbergae in aedibus Schoneri tunc temporis astrologi excellentissimi foelici sydere'). **Prov.:** Gugler annotated the MS until at least 1562–1564 (cf. f. 328v and 329v); Mazarin; library of the kings of France in 1668.

Paper, 371 f., two closely alternating hands: I (Nicolaus Gugler): f. 1r–39r, 56v–86v, 147v–304v, 311r–312v, 321r–370v; II: f. 40r–56r, 87r–147r, 304v–310v, 312v–320v. The second hand is perhaps that of a fellow student.

Astronomy and astrology, reflecting at least partly the teaching at the University of Wittenberg: ‘Sphaera Iohannis de Sacrobusto in compendium digesta’ [= lectures (?) on Sacrobosco’s *De sphaera*] (1r–36r); ascension table for latitude 52° (37r); ‘Annotata in spheram Procli a m<agistro> Ioachimo mathematicae professore (!)’ [= Rheticus’s lectures on Pseudo-Proclus’s *De sphaera*] (39r–57r); ‘Annotata in Alfraganum’ [= Rheticus’s lectures on Alfraganus’s *De scientia astrorum*] (60r–85r); ‘In astrologiam annotata’ (86r–148v), including **Ptolemaica (133r–142r)**; Johannes de Glogovia, *Summa astrologie*, Book III, here anonymous under the title ‘Tractatus integer de nativitatibus’ (149r–322v); collection of 32 horoscopes (323r–330v); biographical notes concerning Nicolaus Gugler and various members of his family (331r); Luca Gaurico, judgement on the nativity of Stephan of Nürnberg (332r–370v). Blank: 36v, 37v–38r, 39v, 57v–59v, 60v, 85v, 111r–111v, 331v, 371r–371v.

Bibl. CCMB, IV, 351; Samaran/Marichal 1959–1981, II, 542; Zinner 1964, 8–9; K. H. Burmeister, *Georg Joachim Rheticus, 1514–1574. Eine Bio-Bibliographie*, 3 vols, Wiesbaden, 1967–1968, I, 6–7, 30–31 and II, 18; J. Kraai, *Rheticus’ Heliocentric Providence: A Study Concerning the Astrology, Astronomy of the Sixteenth Century*, PhD dissertation, Universität Heidelberg, 2001, 25–35 and *passim*; L. Moulinier-Brogi, ‘Un médecin et son image au XVI^e siècle? Nicolaus Gugler, de Nuremberg’, *SA* 89 (2005), 23–36: 25–26 and *passim*; Juste 2011–2015, II, 136–39.

133r–142r ‘Ordo ac summa Ptolomei. Libri I. Caput I. Duplex est ars de astris, astronomia et astrologia. De illa diximus alibi — Ac primum quid Luna dominatur, demum (?) Mercurius, etc. Finis.’
= **Nicolaus Gugler (?)**, **Ordo ac summa Ptolomei (C.2.20)**. Book I, 133r–135r; II, 135r–137r; III, 137r–140r; IV, 140r–142r. A few corrections by the scribe.

Paris, Bibliothèque nationale de France, lat. 7399

s. XIII¹ (second quarter acc. Avril/Stirnemann). **Or.:** England, probably Oxford (Stefan Georges notes that the glossator of this MS also glossed the *Almagest* in ↗Paris, BnF, lat. 7255, a MS of similar production as the present MS). **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, 173 f., four similar and very neat hands (f. 1–93, 95–98, 99–139r and 139v–172), with somewhat later additions f. 94r–94v and 173r–173v. Richly decorated initials throughout, reserved initials on f. 95–98.

Astronomy: **Ptolemaica (1r–12v)**; Jordanus de Nemore (?), *De proportionibus* (12v–15v); **Ptolemaica (15v–93v)**; Campanus of Novara, *De figura sectore* (94r–94v); Menelaus, *Spherica*, incomplete (95r–98v); Alpetragius, *De motibus celorum* (99r–139r); Theodosius, *Spherica*, tr. Gerard of Cremona (139v–173v).

Bibl. CCMB, IV, 351–52; Heiberg 1907, XIII; F. Avril, P. D. Stirnemann, *Manuscrits enluminés d’origine insulaire, VII^e–XX^e siècle*, Paris, 1987, 68–69 (no. 109); Zepeda 2018, 58–59.

1r–12v ‘Quemadmodum Tholomeus et ante eum nonnulli veteris auctoritatis viri antiquas seculi scribunt historias... (2r) Prima differentia. Cum sit possibile,

Iesuri, et plurimumque necessarium ut in plano represententur circuli in speram corpoream incidentes — (10v) cum ipsis circulis tropicis et cum circulis meridianis signa distinguuntibus. Explicit. Incipit prima propositio planispherii. Quoslibet duos circulos equidistantes recto in spera — (12r) per polum zodiaci transire necesse habet. Expliciunt propositiones. Si a termino unius diametri circuli recti — demum punctum in spera potentialiter ostendit.’

= **Ptolemy, *Planisphaerium*, tr. Hermann of Carinthia (A.6.1)**, Class I. Translator’s preface, 1r–2r; text, 2r–10v; *Propositiones planispherii*, 10v–12v. No glosses. A few short notes by apparently another hand f. 2v, 3v–4r.

- 15v–93v ‘Omnium recte philosophantium verisimilibus coniecturis credibilibus — tenebrarum sic se habent. Explicit liber sextus.’
= ***Almagesti minor* (C.1.4)**. Substantial glosses by a contemporary hand. Note by a later hand quoting Regiomontanus on f. 25r.

Paris, Bibliothèque nationale de France, lat. 7406

s. XIII² (in or after 1273, cf. f. 30v–32r). **Or.:** the calendar f. 83r–85v includes references to a university environment (‘festive’, ‘non legitur’) and to Paris, Rouen, northern France and England (see Pedersen). **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, 141 f., one or two similar hands, decorated initials.

Astronomy: canons Cb of Toledan tables ‘Quoniam cuiusque actionis quantitatem...’, mistakenly attributed to ‘Iohannes de Silicia (!), 1290’ by a 15th-c. hand on f. 1r (1ra–18ra); *Theorica planetarum Gerardi* (18va–20vb, continued on f. 138ra–141r); canons of Toledan tables (21ra–30ra); list of beginnings of the years of the Arabs for 1273–1320 (30v–32r); Toledan tables (32v–82v); calendar (83r–85v); tables of Novara (86r–113v); ***Ptolemaica* (114ra–137vb)**; *Theorica planetarum Gerardi* (138ra–141r, see f. 18va–20vb above). Blank: 141v.

Bibl. CCMB, IV, 352; F. S. Pedersen, *Scriptum Johannis de Sicilia super canones Azarchelis de tabulis Toletanis*, København, 1986, 38; Pedersen 2002, I, 159–60; Juste 2011–2015, II, 140.

- 114ra–137vb ‘Geber in libro 30 figurarum ad probationem sui propositi commodius habendam quedam premitit. Prima autem eius propositio eadem est prime Theodosii — et fecit currere illud secundum semitam indagacionis subtilis.’
= ***Commentum in Gebri Librum super Almagesti* (C.1.6)**. Introduction, 114ra; Book I, 114ra–120vb; II, 121ra–128rb; III, 128rb–135rb; IV, 135rb–137vb (breaks off in the middle of IV.1 after nine lines on f. 137vb). No glosses.

Paris, Bibliothèque nationale de France, lat. 7408A

s. XIV². **Prov.:** the 15th-c. ex-libris of the Celestine Convent of Metz (f. 2v) may apply to all four parts of the MS; Colbert; library of the kings of France in 1732.

Parchment (except f. 99–135, on paper), 135 f. Composite MS made of four parts, each copied by a single hand and bound together at an unknown date (I: f. 2–77, II: f. 78–86, III: f. 87–98, IV: f. 99–135).

The third part of the MS contains the **Ptolemaica (87r–98v)** only. The other parts deal essentially with astronomy and astrology: Prophatius Judeus, *Almanach* (2ra–77vb); canons of astronomical tables ‘Si vero gradum ascendentem per horas volueris invenire...’ (78r–86v); Michael Scot, *De noticia ordinum stellarum fixarum celi seu ymaginum* 48 (99r–118r); arithmetic (120r–123r); Messahallah, *Epistola de rebus eclipsium* (127r–128v); ‘Scito 8 loca que sunt constituta, que sunt ascendens, decimum...’ (128v–129r); ‘Albumasar: Nota quod a... (?) posuerunt numerum annorum uniuscuiusque planete...’ (129r–129v); *Benedictum sit nomen domini...*, ch. 18 (132r–134r); ‘Nota quod fetus in matre habet modum lactis 6...’ (134r); notes of physiognomy (134v–135v). Blank: 1, 102, 118v–119v, 123v (except added notes), 124–126, 130–131.

Bibl. CCMB, IV, 353; F. Avril, C. Rabel, *Manuscrits enluminés d’origine germanique*, I: X^e–XIV^e siècle, Paris, 1995, 186–87 (on f. 99–135); Lemay 1999, I, 416–18; Juste 2007, 358; S. Ackermann, *Sternstunden am Kaiserhof. Michael Scotus und sein Buch von den Bildern und Zeichen des Himmels*, Frankfurt/Main, 2009, 524–28; Juste 2011–2015, II, 142; Blume/Haffner 2012–2016, II.1, 198–203.

- 87r–98r ‘Centiloquium Ptolomei cum commento. <D>ixit Ptolomeus: Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras scire desiderat — quicquid diximus in hoc libro Tpolomei (!) probavimus et exposuimus. Explicit Tpolomeus (!).’
= Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3), except v. 1–22 given in Plato of Tivoli’s translation (C.3.1.1). V. 23 has Plato’s proposition with the ‘Mundanorum’ comm., then the ‘Mundanorum’ version prevails from v. 24 onwards. The scribe also added his own entertaining remarks in several places (see Lemay, 417). The preface is omitted. A few short marginal notes by the scribe, who also added in the lower margin of f. 87r three tables showing the *verba* pertaining to nativities, elections and medicine respectively.
- 98r–98v ‘In hoc libro tricas ponit nomina... Stelle cum caudis sunt IX — ipsa significabit in regibus et divide (?).’
= Pseudo-Ptolemy, *De cometis* (B.4). No glosses.

Paris, Bibliothèque nationale de France, lat. 7413

s. XIII^{ex} (after 1281, date of the translation of Abraham Avenezra’s *De mundo vel seculo*). **Or.:** probably France. **Prov.:** this MS may have been used by Simon de Boesmare in the 15th c., for f. II/21ra–35va contain exactly the same selection of texts and excerpts as f. 130r–143v of —Paris, BnF, lat. 7443; Charles-Maurice Le Tellier (d. 1710), archbishop of Reims; library of the kings of France in 1700; stolen by Joseph Barrois (d. 1855).

Parchment, 2 vols (59 + 75 f.), which originally formed one volume (until stolen and dismembered by Barrois), several similar hands.

Astronomy and astrology: Pseudo-Messahallah, *De compositione astrolabii* (I/1r–18v); *Theorica planetarum Gerardi* (I/18v–25v); Aomar, *De nativitatibus* (I/26r–44v); Haly Embrani, *De electionibus horarum* (I/45ra–57rb); Messahallah, *Epistola de rebus eclipsium* (I/57rb–59ra); added astronomical/astrological table (I/59v); Albohali, *De nativitatibus*, tr. Johannes Toletanus, truncated (II/1ra–9va); ‘Cum planete habent in signis terminos per tabulam memorie descriptos...’ (II/9va–9vb); ‘Incipit epistola cuiusdam de signis et causis modernorum. Ignorantie nostre signa sunt et laus. Unum signum est opinionum diversitas...’ (II/9vb–11ra); ‘Incipit Epistola de ratione mixti. Mixtum autem estimo fieri non ex pluribus elementis...’ (II/11ra–13ra); Jordanus de Nemore, *De plana spera* (II/13ra–18v); added astronomical notes (II/19r); John of London, *De motu octave spere* (II/19va–21ra); Messahallah, *Epistola de rebus eclipsium* (II/21ra–24ra); *Astronomia Ypocratis* (II/24ra–28va); Alkindi (?), *Saturnus in Ariete sub radiis...* (II/28va–30rb); **Ptolemaica** (II/30rb–30vb); Zael, *Liber iudiciorum* (II/30vb–35va: *Introductorium* chs 18–22, *Quinquaginta precepta* and *De interrogationibus* chs 1–7); John of London, star table for 1246 in Paris (II/36r); star table 1233 (II/36v); Robert Grosseteste, *De sphaera* (II/37ra–44ra); astronomical paragraph ‘Quociens iste medius motus Lune...’ (II/44ra–44rb); Robert Grosseteste (?), *De impressionibus aeris* (II/44rb–48rb); ‘In faciendo almanak sunt primo extrahendi medii cursus...’ (II/48rb–50ra); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (II/50ra–75va); fragmentary text, crossed out: ‘Scito quod nomen Grecum cuius interpretatio est acceptio...’ (II/75vb). The original MS can be reconstructed thanks to the entries of the catalogue of 1744 (CCMB), whose numbers are given here in brackets: (1–2) = I/1r–25v; (3–5) = three texts no longer in the MS: Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen; Guillelmus Anglicus, *De urina non visa*; and a second copy of *Theorica planetarum Gerardi*; (6–12) = II/19va–75va; (13–16) = II/1ra–19r; (17–19) = I/26r–59r.

Bibl. CCMB, IV, 353–54; L. Delisle, *Catalogue des manuscrits des fonds Libri et Barrois*, Paris, 1888, 221–25; Moulinier-Brogi 2011, 244–45; Juste 2011–2015, II, 143–45.

II/30rb–30vb ‘Dixit Pht<olome>us et Hermes quod locus Lune hora in qua — expertus fuit multociens et cetera.’

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...***
(B.5). No glosses. A couple of corrections by the scribe.

Paris, Bibliothèque nationale de France, lat. 7416B

s. XIVⁱⁿ (eclipse table 1312–1330 f. 114v; the year 1313 (?) mentioned f. 99v). **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, II + 126 f., several hands.

Astronomy, computus, mathematics, astrology and chiromancy: astronomical notes, including latitude of Paris, Montpellier, Jerusalem, Novara and Oxford (Iv–IIv); table of contents (IIv); Petrus de Sancto Audomaro, *Quadrans novus* (1ra–15vb); ‘Vulpes semel fuit ignorantia...’

(16ra–16rb); solar tables (16v–17v); Sacrobosco, *De sphaera* (19ra–26rb), with diagrams (26v); Sacrobosco, *Algorismus* (27ra–31va); Sacrobosco, *Computus*, end gone (31va–49vb); computus tables (50r–51r); Robertus Anglicus, *Quadrans vetus* (51va–57va); table of equal hours (58r); added notes ‘De mensuratione rerum per quadrantem...’ (58v); end of text f. 65 (59r); ‘Cum hec scientia de numeris que argorismus dicitur...’ (59va–61vb); ‘Cum quadrantem componere volueris accipe tabulam eream vel ligneam...’ (62ra–63va); short chapters on quadrant and astronomy ‘Ad disponendum cursorem in quadrante...’ (63va–63vb); solar tables (64r–64v); ‘Investigantibus chilindri compositionem...’ (65ra–65vb and 59ra–59rb); eclipse tables with canons (66r–75rb); Pseudo-Messahallah, *De compositione astrolabii* (75va–86rb); two star tables (86ra–86rb); **Ptolemaica (86va–88ra)**; Thebit Bencora, *De recta imaginatione spere et circularum eius diversorum* (88ra–88vb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (88vb–89vb); *Theorica planetarum Gerardi* (89vb–93rb); Pseudo-Thebit Bencora, *De motu octave spere* (93rb–95ra); astronomical diagrams and tables (95ra–95rb); solar tables (96r–98r); table (99r); faint notes (99v); astrological compilation, beginning gone due to f. 100 cut off (101r–104rb); astrological verses (104rb–104va); ‘Cyromantia est ars demonstrans mores et inclinationes naturales...’ (104vb–109va); Pseudo-Aristotle, *Secretum secretorum*, excerpt on physiognomy ‘Discipuli Ipocratis sapientis depinxerunt formam eius in pergamen...’ (109va–110v); chiromancy ‘Linee naturales 3 in planitie...’ (112ra–114ra); eclipse table 1312–1330 (114v); ‘Ad coniunctionem Solis et Lune habendam, substrahe ab annis...’ (115ra–115rb); ‘Dixit Petrus Anfusus servus Ihesu Christi compositor huius libri...’ (115va–117rb); hymn with musical notation (117v); *zodiologium* ‘De signorum virtute et eorum effluentia. Cum Luna est in Ariete, bonum est minuere sanguinem...’ (118ra–118vb); chiromancy, drawings of two hands (119r–119v); Pseudo-Robert Grosseteste, *Kalendarium*, truncated (120r–126v). Blank: Ir, 18, 95v, 98v, 111.

Bibl. CCMB, IV, 353–54; Pedersen 1983–1984, II, 577; Pedersen 2002, I, 160–61; Juste 2007, 358–59; Juste 2011–2015, II, 146–47.

86va–88ra ‘Equator est circulus maior qui describitur super 2 polos mundi — aut propinqui oppositioni Solis erunt erunt retrogradi.’
 = **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Paris, Bibliothèque nationale de France, lat. 7432

s. XV² (the first part of the third Ptolemaic section was completed on 3 January 1477 — cf. colophon f. 148v — and, presumably, the first two Ptolemaic sections were written shortly before that date; f. 157r–207v are dated 1468, cf. f. 207v: ‘Finit 1468, IX Septembris’; the year 1485 is mentioned in the past tense on f. 259r: ‘verificatus ad annum Iohannis ducis Borbonii 49 completum a sua nativitate.’ **Or.:** MS prepared under the supervision of Conrad Heingarter at the Belleperche castle (Bagneux) for the Duke of Bourbon Jean II (cf. f. 3v–4r, 125v–126r, 135r, 148v, 222r, 223r, 259r), clearly meant to be the presentation copy to the duke, but apparently left unfinished. **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, 275 f., a single neat hand, deluxe MS with large illuminations (f. 5r, 34r, 66r, 103v, 134v, 151v, 160r, 209r, 224r, 238v) and numerous painted initials throughout.

Astrology and astronomy: 'De vita Ptholomei. Ptholomeus in omnibus scientiis... De Hermete. Hermes in Egipto natus fuerat...' (1r); table of contents (1v–3r); **Ptolemaica (3v–134r, 134v–146r and 146v–151r)**; Messahallah, *Epistola de rebus eclipsium* (151v–156v); Alcabitius, *Introductorius*, with comm. John of Saxony (157r–207v, with chapter index 208r–208v); *Theorica planetarum Gerardi* with comm. (209r–222v); Conrad Heingarter, star table verified for the meridian of Belleperche and the time of Jean II of Bourbon (223r–223v); John of Saxony, canons of Alfonsine tables (224r–236v); 'De statione planetarum et retrogradatione' (237r–238r); Alfonsine tables (239r–258v); 'Dixit divus Albertus Magnus: Hoc autem quod nivem...' (259r); 'Nota quod venti secundum Ptholomeum triplicitatis Arietis sunt inter...' (259r); table: rulers and nature of the 360 degrees (259v–263v); *Astronomia Ypocratis* (264r–266r); 'Incipit tractatus de pronosticis et componendis atque ministrandis medicinis. Magna utilitas atque laus medico...' (266r–268r); 'Sequitur de scientia pestilentie. In zodiaco sunt quedam loca...' (268r–268v); added notes in Greek (270r–275v). Blank: 269.

Bibl. CCMB, IV, 357–58; Delisle 1868–1881, I, 171 and 173; Samaran/Marichal 1959–1981, II, 516; Préaud 1969, xiv–xix; Lemay 1999, I, 395–96; Juste 2011–2015, II, 152–53; M. Husson, 'Mathematical Astronomy and the Production of Multiple-Texts Manuscripts in Late Medieval Europe: A Comparison of BnF lat. 7197 and BnF lat. 7432', in *The Emergence of Multiple-Text Manuscripts*, eds A. Bausi, M. Friedrich, M. Maniaci, Berlin, 2019, 247–74.

3v–134r '<D>eus illum vere diligit in quo posuit superioris scientie intellectum, que procul dubio est scientia astrorum... (4r) Dicimus quo iudicium stellarum est scientia a principiis certis proveniens... (5r) Ptholomei scientie astrorum peritissimi Quadripartitum feliciter incipit — (125v) regule et radices quibus ars ista componitur. Laus Deo glorioso et sublimi. <H>ec sunt commentaria, excellentissime princeps, tuus ego Conradus Heingarter ad tui nominis laudem — temporibus florescet. Finit commentum Quadripartiti Ptholomei principis astrologorum doctissimi. (125v) Incipiunt exempla trium nativitatum Haly, et primo nativitas sua. Volo in hoc loco dare exempla trium nativitatum — Hec sunt que tibi glosavi in quibus mentem et studium apponas et Deus te dirigat in viam rectam. Volui autem probare utrum ille auctor secundum 9 speram vel secundum octavam et inveni per loca planetarum que ponit in figura sue nativitatis quod ipsa fuit annis Christi perfectis 986, 10 mensibus, 15 die Ianuarii, qua die equavi planetas secundum tabulas Machabeorum (!), inveni sic.'

= **Conrad Heingarter, *Commentum Quadripartiti Ptholomei* (C.2.10)**. Conrad Heingarter's preface, 3v–4r; Book I, 3v–33r; II, 33v–65r; III, 65r–103r; IV, 103v–126r; Conrad Heingarter's conclusion, 125v–126r; Haly's appendix, 125v–134r; additional note, 134r. Ptolemy's text is written in larger script and so as to leave ample room for the commentary, copied in smaller script in the margins and on folia left blank. The beginning is somewhat confusing. The commentary (in fact Haly Abenrudian's preface reworked by Conrad Heingarter) starts on f. 4r ('Dicimus quo iudicium stellarum...') and continues in the margins of f. 3v–4r.

- 134v–146r ‘Incipit Centilogium Ptholomei. Prologus Haly. Dixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Propositio prima. Mundanorum mutatio ad hoc et ad illud corporum supercelestium... (135r) <V>etus oppinio est (ut dicit Cicero) iam usque ab heroicis ducta temporibus eaque et veteris populi Romani et omnium gentium firmata... Dixit Ptholomeus propositione prima: Iam scripsi tibi, Iesure, id est domine, libros de hoc quod operantur stelle in hoc mundo et sunt multe utilitatis illis qui volunt prescire futura — ut perfecta atque completa secundarum stellarum notitia atque eorum (!) significatio (?) appareat. Et inveni quemdam parvum tractatum de speciebus cometum seu cometarum qui Ptholomeo ascribitur, eumque adiunximus in fine verbis Ptholomei, eumque glosavimus ut sequitur.’ = **Conrad Heingarter**, (*Commentum in Centiloquium*) (C.3.15). The preface and the propositions are copied in larger script and the commentary in smaller script in the margins and on folia left blank. The opening sentence of v. 1 is given in the ‘Mundanorum’ versio (C.3.1.3), but the text and the commentary are otherwise in Plato of Tivoli’s translation (C.3.1.1).
- 146v–151r ‘Ptholomeus dixit quod stelle cum caudis sunt novem... <D>ixit Ptholomeus: Stelle cum caudis sunt novem etc. Loquamur nunc in speciali de cometibus sive stellis habentibus comas — (148v) Vale, ducum decus excellentissimum et valeant qui tuam dominationem valere desiderant. Finita fuerunt hec commentaria in Bellapartica tertio die Ianuarii anno 1477^e currente. (149r) In precedentibus cometes quo ad assentias et eorum stationes declaravimus, nunc vero adventum eorum pronosticabimus — et distanciis eorum a terra et climatium quoque distanciis ad presens sufficiant.’ = **Conrad Heingarter**, (*Commentum in De cometis*) (C.4.7). Conrad’s commentary is copied in the margin in smaller script.

Paris, Bibliothèque nationale de France, lat. 7433 [Plate 20]

s. XV^{ex} (c. 1492, cf. f. 83r, with additions by the scribe until 1504–1506). **Or.:** copied by Francesco Sirigatti in Florence (‘Tabula elevationis signorum secundum latitudinem civitatis Florentiae...’ dated 13 February 1492 f. 83r; see also f. 77v and 82r). The identification of Sirigatti’s hand is confirmed by his own judgement on a nativity of 1483 extant in MS Florence, BNC, Conv. Soppr. C.VIII.1830, f. 1r–15r, where the colophon (f. 13v) reads ‘1517, F. Sirigatis...’. **Prov.:** Mazarin; library of the kings of France in 1668.

Parchment, I + 87 f., a single neat hand.

Astrology mainly: *Alchandreana* ‘Forma furis. Si quis de fure te requisierit in hora Solis...’ (Iv); *Ptolemaica* (1r–66r); ‘Tractatus de directionibus planetarum et eorum aspectibus. Directio est arcus aequatoris revolutus...’ (66v–74r); added notes mentioning Regiomontanus and the comet of 1506 (75v); coordinates of cities and countries (77v–80r), with marginal note on the foundation of Florence (77v); table: *De electionibus secundum cursum Lune per XII signa* (80v–81r); astronomical and astrological tables and notes (81v–83v), including the first lines

of Pseudo-Albertus Magnus's *Speculum astronomie* (82v); added notes on the conjunction Saturn-Mars of 1504 (87v). Blank: 74v–75r, 76r–77r, 84r–87r.

Bibl. CCMB, IV, 358; G. Ouy, 'Un catalogue d'un type nouveau', *Bibliothèque de l'École des Chartes* 122 (1964), 273–91: 290; Samaran/Marichal 1959–1981, IV.1, 31; Juste 2011–2015, II, 154.

1r–66r 'Abreviatio F<rancisci> Sirigatti super Quatripartito (!) Ptholomei. Scientia stellarum est ars a principiis certis aliarum scientiarum proveniens, quibus ea quae accidunt possunt sciri... De pronosticandi scientia, ex textu et commento. <D>uas esse res quibus pronosticandi scientia perficitur et has maiores aliis quia de omnibus rebus potest cognoscere astrologus — et dabimus cuilibet signo duos dies et horas 8. Finis quarti et ultimi libri Quadripartiti...' (end of line erased).

= **Lorenzo Bonincontri**, *Excerpta ex Quadripartito Ptholomei* (C.2.9), attr. Francesco Sirigatti. Book I, 1r–16v; II, 16v–27v; III, 27v–50r; IV, 50r–66r. No glosses. A few marginal notes by the scribe (Francesco Sirigatti).

Paris, Bibliothèque nationale de France, lat. 7437

s. XIV¹ (in or after 1324 for f. 164–183; 13th–14th c. acc. Gousset). **Or.:** southern France (Gousset). **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, 188 f. (f. 11r–87v previously paginated 1–150), several hands, decorated initials.

Astrology, astronomy, arithmetic and optics: representations of the 12 zodiacal constellations according to al-Sūfī (1r–8v); Alcabitius, *Introductorius* (11r–79r); 'In hora Saturni bonum est emere, loqui dominis...' (79v); **Ptolemaica** (79v–87v); 'Scientia yles secundum Aomar Tyberiadem in libro de nativitatibus. Aspicies in nativitatibus diei ad Solem...' (87v–89r); table: 'Tabula distanciarum omnium sperarum a centro terre et spissitudine earum...' (89v), followed by a treatise on celestial distances: 'Capitulum aliud: Qualiter planete dicuntur esse contigui? Notandum est quod quando centrum corporis Lune est in...' (89^{bis}r–101v); 'Incipit opus de practica arismetice valde utile. Cum arismetica, id est ars numerandi in cunctis artibus...' (101v–113v); other chapters of arithmetic 'Notandum est autem quod proporcio est accepicio partis...' (113v–116v); Robertus Anglicus, *Quadrans vetus* (119r–125r); Sacrobosco, *Algorismus* (125r–133r); Johannes Peckham, *Perspectiva communis* (133v–151v); 'Si vis quadrantem facere fac lineam rectam longitudinem...' (152r–155r); Prophatius Judeus, *Quadrans novus* (155v–163v); 'Cum horas diei naturales per quadrantem novum...' (164r–165r); comm. on Prophatius Judeus's *Quadrans novus* 'Imaginetur linea exiens a polo artico...' dated 1324 (166r–183v, this comm. is attributed to Andalo di Negro by E. Pouille, 'Le quadrant nouveau médiéval, II', *Journal des Savants* (1964), 182–214: 198–200); Azarchel, *Saphea*, tr. Guillelmus Anglicus (183v–187r). Blank: 9–10, 117–118, 165v, 187v–188v.

Bibl. CCMB, IV, 361–58; M.-T. Gousset, 'Le *Liber de locis stellarum fixarum* d'al-Sūfī, ms. 1036 de la Bibliothèque de l'Arsenal de Paris: une réattribution', *Arte Medievale* 2 (1984), 93–108: 94 and n. 8; Lemay 1999, I, 421; Juste 2011–2015, II, 157.

- 79v–87v ‘Incipit proemium sapientis Ptolomei in suo ... (?). Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Verbum I. Scientia stellarum ex te et illis est... (80r) Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — quorum commemoratio proluxa esset in hoc libro nostro.’
 = **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*,
tr. Plato of Tivoli (C.3.1.1), v. 1–9, 12–14, 17–23, 27, 35, 40, 46, 60–62, 69–71, 73–74, 76, 78, 80, 86, 91–92 and 95. Glosses by the scribe.

Paris, Bibliothèque nationale de France, lat. 7443

s. XV¹ (copied from c. 1405 to c. 1440), except for additions by Simon de Phares f. 52v–55r and f. 111–112 dated 1487. **Or.:** France, most of the MS (including the Ptolemaic section) was copied by Simon de Boesmare (d. 1448), who worked in close collaboration with another astrologer, perhaps Jean Halbout of Troyes. A third hand is perhaps that of Roland l’Ecrivain. F. 130–143 were probably copied on MS → Paris, BnF, lat. 7413, f. II/21ra–35va. **Prov.:** Simon de Phares; Jehan Roussel; Francis I, king of France (1515–1547).

Paper (except f. 111–112, on parchment), 254 f., several hands, three of which stand out: I (Simon de Boesmare): f. 1–6, 8, 57–87, 89, 90–111, 113–116, 130–160 (in collaboration with hand II for f. 148–158), 164–172, 173v–183v, 212–219 and 229–239; II (Jean Halbout of Troyes?): f. 7, 9–48, 120, 125r, 126r, 148–158 (in collaboration with Simon de Boesmare), 184–211, 221–227 and 248–253; III (Roland l’Ecrivain?): f. 117, 121–124 and 127–129.

Astrology and astronomy, in Latin and French: Guido Bonatti, *Liber introductorius ad iudicia stellarum*, Book X (1r–1v, continued f. 212r–219v, 8r–8v and 2r–4r); sequel of f. 1r–1v (2r–4r); ‘Cum Luna intraverit Cancrum hora Solis vel Virginem hora Veneris...’ (4r–5r, 6r); geographical coordinates of eight cities (4v); Robert Grosseteste (?), *De impressionibus aeris*, fragment (7r–7v); sequel of f. 1r–1v (8r–8v); ‘De fertilitate et habundantia. Secundum Haly quia Jupiter habet dominium in loco coniunctionis...’ (9r–11r); Blasius of Parma, prognostication for 1405 (11v–17r); ‘Perfecta electio rei incipiente est aptatio ascendantis...’ (17v–22v); Melletus de Russis de Forlivo, prognostication for 1405 (23r–32v); John of Murs, judgement on the great conjunctions of 1357 and 1365 (33r–34v); ‘De viribus planetarum et revolutionibus annorum. In revolutionibus annorum ingressus planetarum...’ (35r–42v); Jean Halbout of Troyes (?), prognostication for 1415, in French (43r–48v); historical notes on the period 1218–1478 mainly in France, Latin and French (48v–51v, 52r and 56r–56v), with additions by Simon de Phares: *Revelatio Esdrae*, two versions in French (52v–53r), *tonitruale* in French (53r), ‘Prima die mensis Septembris, Carnis (!) aparet cum Solis ortu...’ (53v–54r) and *horologium* (54v–55r); Simon de Boesmare, horoscopes and astrological notes about the political situation in France in 1407–1408 (57r–69v); Simon de Boesmare, calculs and notes on the great conjunctions (70r–73r); Simon de Boesmare, horoscopes and astrological notes about the political situation in France in 1437 (73v–86v); revolution horoscopes for 1418 and 1442–1445 (87r–90v); Simon de Boesmare (?), text on the 12 houses and the interrogations of the first house, in French (91r–106v); ‘De electionibus. Si vis incolumen, si vis te reddere sanum...’ (107r–108r); John of Saxony, *Canones*, fragment (108v); ‘Sequitur pro sciendo quando planete sunt orientales vel

occidentales. Tractemus si accidat ad invicem 5 planetis...' (109r–109v); Simon de Boesmare, medical, astrological and astronomical notes (109v–111r); table of lunar mansions (111r); diagram of the celestial sphere and the lunar mansions (111v–112r); two astronomical tables (112v); Hermes, *Liber de quindecim stellis*, excerpt (113r–115v); Simon de Boesmare, notes in French, dated 1431 (116r–116v); Roland l'Ecrivain (?), horoscopes and astrological notes about the political situation in France in 1426–1427, in French and Latin (117r, 121r–123r, 129v–127r and 124v–123v: partly bound in disorder); prognostication for 1443 (117v–119v); Pierre d'Ailly, *Vigintiloquium de concordia astronomice veritatis cum theologia*, excerpt (120r–120v); four horoscopes for the great conjunctions of 1425, 1357 and 1365 (125r); notes on the great conjunctions of 1425 and 1464 (126r); Messahallah, *Epistola de rebus eclipsium* (130r–132v); *Astronomia Ypocratis* (133r–137r); Alkindi (?), *Saturnus in Ariete sub radiis...* (137r–138v); **Ptolemaica (138v–139r)**; Zael, *Liber iudiciorum* (139r–143v: *Introductorium* chs 18–22, *Quinquaginta precepta* and *De interrogationibus* chs 1–7); Robert Grosseteste (?), *De impressionibus aeris* (143v–147r); 'De 15 stellis fixis. Stelle fixe que sunt de nature Saturni et Martis nocent...' (147v); 'Omnia iudicia que secundum astronomiam feruntur...' (148r–158v); Leopold of Austria, *De astrorum scientia*, excerpt from Book VI 'Signa quoque humida sunt Cancer, Leo, Scorpio et Aquarius...' (160r); Simon de Boesmare, medical, astrological and astronomical notes, in French and Latin (164r–183v); controversy regarding the making of a medical almanac at the faculty of medicine in Paris in 1437 'Super controversia mota inter venerabiles et discretos viros...' (184r–211v); sequel of f. 1r–1v (212r–219v); fragment on the astrolabe (220r–220v); John of Eschenden, judgement on the great conjunction of 1365 (221r–227v); Simon de Boesmare, medical, astrological and astronomical notes, in French and Latin (229r–239v); text on the new quadrant, in French (240r–242r); description of the native of the seven planets, in French (242r–243r); text on the equatorium, incomplete (243v–247v); 'Qui accesserit ad regem et Luna in Aquario non recipietur nec aliquo modo curabit rex...' (248r–253v). Blank: 5v, 6v, 125v, 126v, 159, 160v–163v, 228, 254.

Bibl. CCMB, IV, 359; Thorndike 1957, 143–44; J.-P. Boudet, *Lire dans le ciel. La bibliothèque de Simon de Phares, astrologue du XV^e siècle*, Bruxelles, 1994, 113–51; J.-P. Boudet, T. Charmasson, 'Une consultation astrologique princière en 1427', in *Comprendre et maîtriser la nature au Moyen Âge. Mélanges d'histoire des sciences offerts à Guy Beaujouan*, Paris, 1994, 255–78; J. R. Veenstra, *Magic and Divination at the Courts of Burgundy and France. Text and Context of Laurens Pignon's Contre les Devineurs (1411)*, Leiden-New York-Köln, 1997, 119–26; Lemay 1999, I, 422; Juste 2011–2015, II, 162–67.

138v–139r 'exit Ptholomeus et Hermes quod locus Lune hora in qua — expertus fuit multociens etc.'
 = **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5).** No glosses.

Paris, Bibliothèque nationale de France, lat. 7457

s. XV. **Or.:** Germany. **Prov.:** Mazarin; library of the kings of France in 1668.

Paper, 121 f., one main hand, rather sloppy.

Geomancy and astrology: 'Incipit methodus universalis archani sublimis et magni Dei ad sciendum verum et certum iudicium secundum scientiam geomancie...' (1r–64v); tables and notes of geomancy (65r–69r); geomancy, in German (70r–71r); Albumasar (?), *Liber similitudinum* (73r–80v); 'Solis hora mala et dura ad omnia semper videtur...' (80v–81r); 'Triste, Satur, claustrum Iovis...' (82r); **Ptolemaica** (83r–96r); 'Dies dominica dies Solis dicitur. Solis dies. Hora eius cum fuerit nocturna sive diurna...' (96r–96v); *zodiologium* 'In hys signis tropicis...' (96v); 'Si videris et inveneris lapidem, bonum...' (97r); notes and figures of geomancy (97v–98v); Hermes/Enoch, *Liber imaginum signorum* (98v–101r); 'Duplex est coniunctio planetarum scilicet superior et inferior...' (101r–119r); compilation partly based on Pseudo-Ptolemy's *Iudicia* 'Post planetarum tractatum de Capite et Cauda Draconis...' (119r–120v); scattered notes, added (121r–121v). Blank: 69v, 71v–72v, 82v.

Note This MS is closely related in content to MS $\rightarrow$ Munich, BSB, Clm 458.

Bibl. CCMB, IV, 361–62; Juste 2011–2015, II, 175–76.

83r–96r 'Per hoc opus possunt cognosci — et alie sunt fallaces. Explicit novus modus geomancie que intitulatur Archanum magis (!) Dei.'
= Pseudo-Ptolemy, *Archanum magni Dei de reductione geomancie ad orbem* (B.17). No glosses.

Paris, Bibliothèque nationale de France, lat. 7471 [Plate 29]

s. XVI² (copied in 1567, cf. colophons f. 6v, 11r ('9^o Maii 1567'), 22v ('6 Maii 1567') and 43v, with additions dated 1569, cf. f. 44v). **Or.:** autograph of Francesco Maurolico. **Prov.:** Colbert; library of the kings of France in 1732.

Paper, 44 f., a single hand.

Astronomical works and notes by Francesco Maurolico: **Ptolemaica** (2v–6v); comm. on Sacrobosco's *De sphaera* 'Maurolyci in sphaeram communem adnotationes' (7r–11v); table for planets 'Fulsio prima... Fulsio postrema...' (13r); index of all sciences arranged in 13 categories 'Prologus in indicem. Cum vacuus interdum praeteritis annis...' (14r–23r, ed. S. Matton, 'Note sur l'alchimie dans la classification des sciences et des arts de Francesco Maurolico. Suivie de l'édition de son *Rerum tractandarum index*', *Chrysopoeia* 4 (1990–1991), 283–306); astrological notes on the twelve signs (23v–24v); **Ptolemaica** (25v–44v). Blank: 1r–2r, 12, 13v, 25r.

Bibl. CCMB, IV, 363; R. Moscheo, *Francesco Maurolico tra Rinascimento e scienza galileiana. Materiali e ricerche*, Messina, 1988, 195–200.

2v–6v and 25v–44v '(2v–6v) In Magnae Ptolemaicae constructionis libros argumenta per Maurolycum. In primum. In prologo ait: Speculationem dividi in tria genera secundum Aristotelem, scilicet naturale, mathematicum ac theologicum — in oppositione superiores imitantur. Lector vale. 10 Maii 1567. (25v–44v) Sequitur breviarium sive epitome brevissimae in Almagestum Ptolemaei, sive idea Ptolemaica per Maurolycum diligentissime ordinata. (26r) Ptolemaicae

traditiones ex singulis Magnae constructionis libris a<rgumenta>. Ex primo. Speculativa pars philosophiae cum in tria genera dividatur secundum Aritotelem, naturale scilicet, mathematicum ac theologicum — (43v) a Sole remotam videri posse negat. Fulsio prima... Fulsio postrema... [table, same as f. 13r above] Die Lunae 16 Iunii dum Sol medium limen fenestrae occiduus percutit M.D.LX.VII. (44r) Differentias autem diversitatum in epicyclo propter inclinationem... In 4^o ante observationem trium eclipsium. Si motus Lunae... (44v) In principio 12. Si planetis altioribus — postulat utrumque modum. 6 Iun<ii> 1569.’

= **Francesco Maurolico**, *Breviarium sive epitome brevissimae in Almagestum Ptolemaei* (C.1.32). No glosses in the first part (2v–6v), corrections by Maurolico in the second part (25v–44v), including three additions copied at the end (44r–44v).

Paris, Bibliothèque nationale de France, lat. 7480

s. XIV. **Prov.:** Colbert; library of the kings of France in 1732.

Parchment, V + 153 f., a single neat hand.

Ptolemaica (single text). Title by a 16th-c. hand ‘καρπός Ptolemaei, hoc est ut vulgo indigetatur (?) Centiloquium, cum commentario Haly Eben Rodain et glossa sive commenta edito a magistro Willhelmo de Arragonia’ (Ir); index of *verba* of the *Centiloquium*, hand of the scribe (IIr–Vr). Blank: Iv, Vv.

Bibl. CCMB, IV, 364; Lemay 1999, I, 389–94; Juste 2011–2015, II, 178.

1r–153v ‘Incipit liber centum verborum Ptholomei de significacione in communi que contrahitur ex stellis et ex vi anime super res futuras. Dixit Ptholomeus: Iam scripsi tibi, Iesare, id est domine, libros tractantes de hoc quod operantur stelle... Verbum primum Ptholomei. Sciencia stellarum ex te et illis est. Astrologus non debet dicere (1v) rem specialiter... Commentum prime proposicionis. Quod dixit Pthol<omeus>, ex te et illis, significat quod qui res futuras scientie desiderat duabus (2r) viis oportet incedere... (3r) Incipit scriptum supra Centilogium Ptholomei a magistro Wuillelmo de Aragonia editum, hic est glosa. (3v) Sicut dixit Ptholomeus in proverbiiis Almagesti: Non fuit mortuus qui sapienciam vivificavit, nec fuit pauper qui intellectum dominatus est — (151r) ita est ortus istius et ideo non planete dicenda sunt, hic enim satis dictum est superius. Alnaezic significat siccus vapores — et ego Deum (153v) deprecor ut te diligat. Perfecta est huius libri translacio 17 die mensis Martii, 12 die mensis Gumedi secundo anno Arabum 530.’

= **William of Aragon**, *Scripta supra Centilogium Ptholomei* (C.3.4). No glosses.

Paris, Bibliothèque nationale de France, lat. 7817

s. XV² (copied in 1469, cf. f. 56v). **Or.:** France. **Prov.:** notes f. 118r by two hands from the 15th and 15th–16th c.: ‘Petrus de Romies (?)’ and ‘A maistre Jehan Le Valloys, cure de Syrville’ [Surville, near Le Havre]; Antoine Lancelot (d. 1740); library of the kings of France before c. 1740.

Parchment, 118 f., a single neat hand, painted initials.

Miscellanea, including alchemy, natural philosophy and astrology: ‘Ad presulem dignissimus antistiten Parisiense humilis suus Eg<idius?> Pafsiace ecclesie canonicus de laudibus curie parlamenti incipit. Mirari debet nullus...’ (1r–2v); ‘Incipit formula honeste vite. Quatuor virtutum species multorum sapientium...’ (3r–8r); ‘Bonaventura in tertio Sententiarum distinctione...’ (8v); Isidore of Seville, *Synonyma* (9r–40v); notes ‘Prima Marie Magdalene. Iohannes XX^o...’ (40v–41v); Pseudo-Arnold of Villanova, *De vita philosophorum* (42r–56v); Arnold of Villanova, *De vinis* (57r–76r); Arnold of Villanova, *De aquis laxativis* (76v–83v); Albertus Magnus, *De animalibus*, Book X (84v–110r); **Ptolemaica** (110v–118r).

Bibl. CCMB, IV, 400; Samaran/Marichal 1959–1981, II, 431; A. Calvet, ‘Le *De vita philosophorum* du pseudo-Arnaud de Villeneuve, texte du manuscrit B. N. lat. 7817 édité et traduit’, *Chrysopæia* 4 (1990–1991), 35–79: 44; Juste 2011–2015, II, 182–83.

110v–118r ‘Ad inveniendum signum nativitatis cuiuslibet hominis, recipe nomen eius et nomen sue matris... Inferiora reguntur a superioribus ut patet per astrologos et sapientes... (111r) Natus sub Ariete a medio Martii usque ad medium Aprilis erit magne industrie — dies Martis et Saturni mali istis tam viris quam mulieribus, fideliter vivent tam viri quam mulieres.’
= Pseudo-Ptolemy, *De nativitatibus hominum* (B.11). No glosses.

Paris, Bibliothèque nationale de France, lat. 9335

s. XIII¹ (c. 1220s, Georges). **Or.:** Bologna (Georges). **Prov.:** Mateus de Imola, professor of astrology at Bologna from 1352 to 1363, then a certain ‘master Michael’ (cf. erased ex-libris f. 1r: ‘et est Matey de Ymola, precii... et modo est magistri Michaellis de...’); Giovanni Fontana (c. 1395–1455), who added notes f. 134r; Ismaël Boulliau (d. 1694); acquired by the Bibliothèque Nationale in 1756.

Parchment, II + 160 f., a single neat hand, painted initial f. 1r, decorated initials.

Scientific texts, mainly Gerard of Cremona’s translations: table of contents, late medieval (1r); Theodosius, *Spherica*, tr. Gerard of Cremona (1ra–19ra); Autolycus, *De sphaera mota* (19ra–21vb); Hypsicles, *De ascensionibus* (22ra–23rb), with appendix ‘Figura per quam monstratur quod omnis trianguli in semicirculo...’ (23rb–23vb); **Ptolemaica** (23vb–25rb); Theodosius, *De habitationibus* (25rb–28va); ‘Ordo qui est post librum Euclidis secundum quod invenitur in scriptis Iohanicii: Euclidis de aspectibus tractatus unus...’ (28va); Archimedes, *De mensura circuli* (28va–30ra); Ametus filius Josephi [Aḥmad ibn Yūsuf], *De arcubus similibus*

(30ra–31vb); Alkindi, *De quinque essentiis* (31vb–32vb); Menelaus, *Spherica* (32vb–54vb), with appendix ‘Volo ostendere quod omnium trium linearum...’ (54vb–55rb); Tres Fratres Filii Moysi [Banū Mūsā], *Verba filiorum Moysi filii Sekir* (55rb–63va), with appendix ‘Iste modus est sufficiens in arte eptagoni...’ (63va–64rb); Ametus filius Josephi [Aḥmad ibn Yūsuf], *Liber de proportionem et proportionalitate* (64rb–75rb); Alkindi, *De aspectibus* (75rb–82ra); Pseudo-Euclid, *De speculis* (82ra–83vb); Tideus, *De speculis* (84ra–85va); Apollonius, *Liber de pyramidibus* (85va–86ra); Alhazen, *De speculis comburentibus* (86ra–88va); Euclid, *De aspectibus* (88va–92rb); Abbacus [Ibn ‘Abd al-Bāqī], *Liber Iudei super decimum Euclidis* (92va–110va); Algorismi [al-Khwārizmī], *Algebra* (110vb–116va); Alubater [Abū Bakr], *Liber mensurationum* (116va–125va); *Liber Saydi Abuothmi* (125va–126ra); *Liber Aderameti* (126ra–126vb); *Liber augmenti et diminutionis* (126vb–133va); ‘Dicta atque notata per me Iohannem Fontana physicum Venetum et probata. Pro declaratione speculi ardentis quedam sunt principia...’, added by Giovanni Fontana (134r); Alkindi, *De gradibus medicine* (135ra–139vb); table for computing the zodiacal position of the Moon, with canon (140r); *Alfeal secundum motum Lune* (140r–141r); Pseudo-Thebit Bencora, *De motu octave spere* (141ra–143rb); Alfarabi, *De scientiis* (143va–151vb); Harib filius Zeid, *Liber anoe* (151vb–160vb). Blank: Iv–IIv, 134v.

Bibl. L. Delisle, *Inventaire des manuscrits conservés à la Bibliothèque Impériale sous les numéros 8823–11503 du fonds latin*, Paris, 1863, 28–29; Delisle 1868–1881, II, 343; A. A. Björnbo, ‘Über zwei mathematische Handschriften aus dem Vierzehnten Jahrhundert’, *Bibliotheca Mathematica*, Dritte Folge 3 (1902), 63–75: 67–75; Björnbo 1902, 137–38; Björnbo/Vogl 1912, 138; Clagett 1964–1984, I, xxvi; Kristeller 1963–1992, III, 242; F. Avril, M.-T. Gousset, *Manuscrits enluminés d’origine italienne*, II: *XIII^e siècle*, Paris, 1984, 5 (no. 3); B. B. Hughes, ‘Gerard of Cremona’s Translation of al-Khwārizmī’s *al-Jabr*: A Critical Edition’, *Mediaeval Studies* 48 (1986), 211–63: 224–25; P. Pizzamiglio, *Gerardo da Cremona nella tradizione amanuense e tipografica*, Cremona, 1988, 25–26; D. Jacquart, ‘Les manuscrits des traductions de Gérard de Crémone: quelques caractéristiques formelles’, in *Les traducteurs au travail. Leurs manuscrits et leurs méthodes*, ed. J. Hamesse, Turnhout, 2001, 207–20: 211–13; Juste 2011–2015, II, 187; D. Lohrmann, ‘Johannes Fontanas Traktat über Brennspiegel und der Codex Paris BnF ms. latin 9335’, *SA* 100 (2016), 166–87; M. Moyon, *La géométrie de la mesure dans les traductions arabo-latines médiévales*, Turnhout, 2017, 131–32; M. Moyon, *Le Liber augmenti et diminutionis. Contribution à l’histoire des mathématiques médiévales*, Stuttgart, 2023, 2; Georges (forthcoming).

23vb–25rb ‘Liber quem edidit Tebit filius Chore de his que indigent expositione antequam legatur Almagesti. De his que indigent expositione antequam legatur Almagesti (!). Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Tebit filii Chore de his que indigent expositione antequam legatur Almagesti.’
= Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Paris, Bibliothèque nationale de France, lat. 10253

s. XV^{ex} (f. 1–79 completed in 1481, cf. f. 79r: ‘Perfecta copia ab originali mendoso tam in textu quam in figuris 28 Ianuarii 1481 incompleto, Neapoli, per Arnaldum de Bruxella’; f. 84–168 completed in 1487, cf. f. 168r: ‘Finitum est opus in Urbe Parthenopis die 8 Martii 1487 in meridie per Arnaldum de Bruxella’). **Or.:** copied by Arnald of Brussels in Naples. **Prov.:** Bernard Collot (d. 1755), canon of Notre-Dame of Paris, who bequeathed his MSS to the library of the kings of France in 1751.

Paper, 169 f., a single neat hand.

Astronomy and astrology: **Ptolemaica** (6r–138v); Matheus de Guarimbervis, *De directione et projectione radiorum et aspectuum* (140r–168r); added note in Greek (169r). Blank: 1r–5v, 139, 168v, 169v.

Bibl. L. Delisle, *Inventaire des manuscrits conservés à la Bibliothèque Impériale sous les numéros 8823–11503 du fonds latin*, Paris, 1863, 66; L. Thorndike, ‘Giovanni Bianchini in Paris Manuscripts’, *Scripta Mathematica* 16 (1950), 5–12 and 169–80: 176–80; E. Pouille, *La bibliothèque scientifique d’un imprimeur humaniste au XV^e siècle. Catalogue des manuscrits d’Arnaud de Bruxelles à la Bibliothèque nationale de Paris*, Genève, 1963, 38–44; Samaran/Marichal 1959–1981, III, 159; Kristeller 1963–1992, III, 244; Juste 2011–2015, II, 189.

6r–138v ‘Tractatus primus de arismetricha per Iohannem de Blanchinis. Liber primus. Incipit prohemium. Arismetricha dico quod determinatur per numeros, et duo noto diffinitiones numerorum — in lineis rectis inclusorum, cum quibus perficientur opus nutu Dei gloriosi.’
= Giovanni Bianchini, *Flores Almagesti* (C.1.17). I, 6r–23r; II, 23r–35v; III, 36r–46r; IV, 46r–54r; V, 54r–79r (f. 79v: ‘Tabula proportionum figure sectatoris composite per Iohannem Blanchinum’; f. 80r–83v are blank); VI, 84r–103r; VII, 103r–130v; VIII, 130v–138v. Full table of contents in Thorndike. A few marginal notes by the scribe.

Paris, Bibliothèque nationale de France, lat. 10268

s. XV² (1470 for f. 1–22; the year 1478 is mentioned f. 120v). **Or.:** copied by Arnald of Brussels in Naples. **Prov.:** Bernard Collot (d. 1755), canon of Notre-Dame of Paris, who bequeathed his MSS to the library of the kings of France in 1751.

Paper, VI + 141 f. foliated 133–144 and 1–129, a single neat hand.

Astronomy and astrology: table of contents (Ir); table of contents of Bartholomew of Parma’s *Tractatus spere* (IIr, see f. 49–129); **Ptolemaica** (133r–138r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (138v–141r); Sacrobosco, *De sphaera* (1r–21v); Robertus Anglicus, comm. on Sacrobosco’s *De sphaera* (23r–47v); Bartholomew of Parma, *Tractatus spere* (49r–129v). According to the table of contents f. Ir, the MS also contained ‘Epistola Messahalla de coniunctionibus planetarum, 130 [= Messahallah, *Epistola de rebus*

eclipsium]; Almansor filius Amet de stellis fixis et significatis (!) earum, 145 [= *Capitula Almansoris?*]; De viginti octo mansionibus Lune, 147; De ymaginibus celi, 163; Abraham de 28 mansionibus celi, 175; Iohannes Hispalensis de mutatione aeris, 181 [= Pseudo-John of Seville, *Tractatus pluviarum et aeris mutationis*]; Centiloquium Bireni in astrologia, 184 [= Bethen, *Centiloquium*]; Alter tractatus de mutatione aeris, 194; Alter tractatus de mutatione aeris, 211; Epistola Messahalla de mutationibus aeris, 213 [= Messahallah, *In pluviis et ventis epistola?*]; Messahalla de interrogationibus, 217 [= Messahallah, *Liber receptionis?*].⁷ Blank: Iv, IIv–VIv, 141v–144v, 22r–22v, 48r–48v.

Bibl. L. Delisle, *Inventaire des manuscrits conservés à la Bibliothèque Impériale sous les numéros 8823–11503 du fonds latin*, Paris, 1863, 67; E. Poulle, *La bibliothèque scientifique d'un imprimeur humaniste au XV^e siècle. Catalogue des manuscrits d'Arnaud de Bruxelles à la Bibliothèque nationale de Paris*, Genève, 1963, 75–78; Samaran/Marichal 1959–1981, III, 163; Juste 2011–2015, II, 191.

133r–138r ‘Incipit liber Thebith filii Chore de hiis que indigent expositione antequam legatur liber Almagesti. <E>quator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Explicit liber Thebit filii Core de hiis que indigent expositione antequam legatur liber Almagesti. Deo gracias.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Paris, Bibliothèque nationale de France, lat. 14068

s. XV² (f. 122–170 copied in 1464, cf. f. 170r, and the whole MS is in the same hand). **Or.:** copied by one Petrus Pichoti, a cleric at Murat (Cantal), cf. f. 8v: ‘Explicit per me, Petrum Pichoti, Murati ville clericum’, f. 21v: ‘Pichoti’, and f. 170r: ‘Finitus est iste tractatus de astronomia per virtutem Dei in villa Murati et scriptus per me, Petrum Pichoti, clericum, die XVIII Novembris anno domini M^oCCCC^oLXIII^{to}...’. **Prov.:** ‘J. Sancerii’, 16th c., cf. f. 1r and 170r; Pierre Séguier (d. 1672), chancellor of France; Henri-Charles du Cambout (d. 1732), duke of Coislin and bishop of Metz (ex-libris f. 1r), who bequeathed the MS to Saint-Germain-des-Prés.

Paper, 200 f., a single hand.

Astronomy, computus, astrology and divination: microcosm diagram, crossed out (1r); labyrinth (1v); Franco de Polonia, *Tractatus de turketo* (2r–5r); Euclid, *Elementa*, ed. Campanus of Novara, I–II.11 (5r–8v); calendars (9r–20v), with notes and tables of computus, astrology and divination (21r–38r); sphere of Apuleius/Pythagoras (38v–39r); *Somniale Danielis* (39r–45v); ‘Qui cursum Lune scire desiderat, sciat primitus Sol namque quolibet anno pertransit...’ (46r–49v); notes of arithmetic (49v–50r); *Prognostica Socratis Basilei* (50v–58v); Sacrobosco, *De sphaera* (59r–79r); *Theorica planetarum Gerardi* (79r–91v); Pseudo-Thebit Bencora, *De motu octave spere* (91v–97v); **Ptolemaica** (97v–102v); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (102v–105v); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (105v–107v); astronomical diagrams

(108r–109r); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (110r–120v); computus table (121v); Raymundus Lullus, *Tractatus novus de astronomia* (122r–170r); a text of cosmology/astronomy ‘In hac nostra habitacula sunt montes in quorum summitatibus sunt mures...’ (171r–195v); ‘Aries. Nil capiti facias Ariete...’ and other astrological chapters (196v–199r); *Revelatio Esdrae* (199v); ‘Infans qui natus fuerit die dominico bonus homo erit...’ (200r). Blank: 24r, 109v, 121r, 170v, 196r, 200v.

Bibl. L. Delisle, *Inventaire des manuscrits de Saint-Germain-des-Prés conservés à la Bibliothèque Impériale sous les numéros 11504–14231 du fonds latin*, Paris, 1868, 126; Thorndike 1957, 146–47; Pedersen 1983–1984, I, 269–70; Samaran/Marichal 1959–1981, III, 355; *Raimundi Lulli Opera Latina*, XVII, eds M. Pereira, T. Pindl-Büchel, Turnhout, 1989 [Corpus Christianorum Continuatio Mediaevalis, 79], xxxiii–xxxiv; E. Montero Cartelle, A. Alonso Guardo, *Los ‘libros de suertes’ medievales: las sortes sanctorum y los prenostica Socratis Basilei. Estudio, traducción y edición crítica*, Madrid, 2004, 130–31; Juste 2011–2015, II, 207–08.

97v–102v ‘Incipit liber Thebith Bechorach de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describit super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Chore de hiis que indigent expositione antequam legatur Almagestum.’

= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Paris, Bibliothèque nationale de France, lat. 14738 [Plate 3]

s. XII² (probably between c. 1165 and c. 1176 acc. Georges). **Or.:** the MS is generally believed to have originated in France, either southern France (Marie-Thérèse d’Alverny, as reported by Kunitzsch, *Der Sternkatalog*) or northern France (Marie-Thérèse Gousset and Patricia Stirnemann, as reported by Jacquart, ‘Les manuscrits’, 216 n. 30), but Georges convincingly argued that it was copied and decorated for Henry II at Winchester. **Prov.:** St Victor of Paris, apparently since 1319, according to a note f. Ir: ‘Iste liber depositus est in Sancto Victore ... [a dozen of erased words] anno M^oCCC^oXIX^o die Veneris ante Penthecostem’ (other St Victor ex-libris f. 1r). On f. 211v, a late 13th- or early 14th-c hand wrote ‘Istam litteram scripsit Iofridus de Forpahc [Forbach, Moselle]’ next to the added ch. III.4 (see below).

Parchment, II + 211 f., a single neat hand, decorated initials.

Ptolemaica (single text). F. Ir and IIv contain scattered notes, including the ex-libris of St Victor and the title and contents of the MS. Blank: Iv, IIr (except for a series of numbers f. IIr).

Bibl. L. Delisle, *Inventaire des manuscrits de l’Abbaye de Saint-Victor conservés à la Bibliothèque Impériale, sous les numéros 14232–15175 du fonds latin*, Paris, 1869, 45; Samaran/Marichal 1959–1981, III, 738; Kunitzsch 1974, 91–93; Kristeller 1963–1992, III, 258; Kunitzsch 1986–1991, II, 12; G. Ouy, *Les manuscrits de l’abbaye de Saint-Victor. Catalogue établi sur base du répertoire de Claude de Grandrue (1514)*, Turnhout, 1999, II, 484; D. Jacquart, ‘Les manuscrits des traductions de Gérard de Crémone: quelques caractéristiques formelles’, in

Les traducteurs au travail. Leurs manuscrits et leurs méthodes, ed. J. Hamesse, Turnhout, 2001, 207–20: 216–19; D. Jacquart, ‘Les sciences dans la bibliothèque de Saint-Victor’, in *L’école de Saint-Victor de Paris. Influence et rayonnement du Moyen Âge à l’Époque moderne*, ed. D. Poirel, Turnhout, 2010, 197–225: 205–06; Georges (forthcoming).

1r–211va ‘Quidam princeps nomine Albugaefe in libro suo quem scientiarum elect... [ending erased] et verborum nominavit... (1v) Bonum scire fuit quod sapientibus non deviantibus visum est — (211r) abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Expleta est dictio XIII^a libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Laus Deo. Amen. [211va, added by a 13th-c. hand] Ad hec autem ut demonstramus contra (!) secundum modis (!) orbis revolutionis per numeros quod quantitates ille sint une cum proportiones — illud est quod oportuit nos declarare.’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1r–1v; I, 1v–17r; II, 17r–41r; III, 41r–55v; IV, 55v–75r; V, 75r–93v; VI, 93v–112r; VII, 112r–127r; VIII, 127v–140v; IX, 140v–157v; X, 157v–168r; XI, 168r–184r; XII, 184r–197r; XIII, 197r–211r. The text is followed (211va) by the final paragraph of ch. III.4, missing *in loco* (51r), where an added note reads: ‘Hic deficit unum capitulum parvum et quere in fine libri.’ Very short glosses by two later hands, f. 20v, 21v, 42v–43r, 44r, 45v–46r, 54v, 70v–71r, 74r–74v, 79r, 88r, 93r, 99v, 102v, 109v, 110v, 114r, 132r, 139v, 153v–154r, 155r, 163v, 169v, 172r–173v, 193v. The gloss on f. 46r has calculations for the year 1246 (‘... quod fuit in anno domini 1246 incompleto’).

Paris, Bibliothèque nationale de France, lat. 14754

s. XII^{med}. **Or.:** France. **Prov.:** St Victor of Paris by the end of the 12th c.

Parchment, 256 f., a gathering of two MSS (f. 1–94 and 95–255).

Scientific texts: Remigius of Auxerre, comm. on Martianus Capella’s *De nuptiis Mercurii et Philologiae* (1ra–92ra); Martianus Capella, *De nuptiis Mercurii et Philologiae* (95ra–202v); *Liber Nemroth* (203r–229r); Pseudo-Bede, *De signis coeli* (229v–232v); **Ptolemaica (233r–244r and 245r–255r)**; *Tabula fortune* (244v). Blank: 92rb–94v, 255v–256.

Bibl. L. Delisle, *Inventaire des manuscrits de l’Abbaye de Saint-Victor conservés à la Bibliothèque Impériale, sous les numéros 14232–15175 du fonds latin*, Paris, 1869, 46; A. Van de Vyver, ‘Les plus anciennes traductions latines médiévales (X^e–XI^e siècles) de traités d’astronomie et d’astrologie’, *Osiris* 1 (1936), 658–91: 685; Leonardi 1960, 445–46 (no. 174); Kristeller 1963–1992, III, 258; Pingree 1997, 14; P. Gautier Dalché, ‘Mappae mundi antérieures au XIII^e siècle dans les manuscrits latins de la Bibliothèque Nationale de France’, *Scriptorium* 52 (1998), 102–62: 160; G. Ouy, *Les manuscrits de l’abbaye de Saint-Victor. Catalogue établi sur base du répertoire de Claude de Grandrue (1514)*, Turnhout, 1999, II, 484; D. Jacquart, ‘Les sciences dans la bibliothèque de Saint-Victor’, in *L’école de Saint-Victor de Paris. Influence et rayonnement du Moyen Âge à l’Époque moderne*, ed. D. Poirel, Turnhout, 2010, 197–225: 208–09; Blume/Haffner 2012–2016, I.1, 449–53; Juste 2011–2015, II, 216.

233r–244r, 245r–255r ‘Incip<iunt> can<ones> Ptol<omei>. Intellectus climatum possi sepiissime requires si inveneris platos civitatis — (244r) requires superiorem et inferiorem et addes aut deduces’ (followed by the tables f. 245r–255r).
= *Preceptum canonis Ptolomei* (A.7.1). No glosses.

Paris, Bibliothèque nationale de France, lat. 15353

s. XIII^{ex}–XIVⁱⁿ (f. 87–92 copied between 1295 and 1315). **Or.:** France. **Prov.:** college of Sorbonne.

Parchment, 93 f., MS made of four parts each copied by a single hand (f. 3–14, 15–72, 73–86 and 87–93).

Theology by Thomas Aquinas, Henry of Ghent and Giles of Rome. The **Ptolemaic section** (87ra–92vb) follows Giles of Rome’s *Super decretalem cum Mathae* (77vb–86rb). Blank: 86v, 93.

Bibl. Delisle 1870, 6; Samaran/Marichal 1959–1981, III, 415; H. F. Dondaine, H. V. Shooner, *Codices manuscripti operum Thomae de Aquino*, III, Montréal, 1985, 272; *Aegidii Romani Opera Omnia*, I: *Catalogo dei manoscritti*, I.3: *Francia (Parigi)*, ed. C. Luna, Firenze, 1988, 187–88; Juste 2011–2015, II, 222–23.

87ra–92vb ‘Incipit archanum magni Dei revelatum Tholomeo regi Arabum de reductione geomancie ad orbem. Per hoc presens opus possunt cognosci exquisite presentia, preterita et future in omni eo quod vult homo in tantum quantum se potest extendere virtus orbis. Modus autem operandi in hac sacra scientia — et alie sunt fallaces. Explicit. Honor virtus est gloria potestas... Translatio magistri Bernardi de Gordonio phisici regnante Bonifacio papa et Adulpho electo in imperatorem et Philippo rege Francie filio quondam Philippi regis Francie et Iacobo rege Maioricarum et Berengario episcopo Magalonensi et Audoardo rege Anglorum et anno XIII^o lecture nostre in phisica in Montepessulano et anno domini M^oCC^o nonag<inta> quinto die Iovis ante Natale.’
= *Pseudo-Ptolemy, Archanum magni Dei de reductione geomancie ad orbem* (B.17). No glosses.

Paris, Bibliothèque nationale de France, lat. 16198

s. XIV² (c. 1362, cf. f. 198v). **Or.:** English hand (Avril/Stirnemann). **Prov.:** bequeathed by Egidius Gossuin of Hermies (Pas-de-Calais) to the college of Sorbonne in the 14th c. (cf. f. 198v).

Parchment, I + 199 + I^a f., a single hand.

Geometry, arithmetic, astronomy and astrology: Euclid, *Elementa*, ed. Campanus of Novara (2r–73v); *Ptolemaica* (74r–122v); Jordanus de Nemore, *De elementis arithmetice artis*, incomplete (123r–150v); Simon Bredon, *De arithmetica* (151ra–155vb); geometry ‘Artis cuiuslibet consummatio...’ (156r–162v); ‘Tres circulos in astrolapsu descriptos...’ (162v–163r);

comm. on Jordanus de Nemore's *Elementa super demonstrationem ponderum* (163v–165v); Geminus of Rhodes, *Elementa astronomie*, attr. Ptolemy 'Explicit quod abbreviatum est de libro introductorii Ptholomei ad librum suum nominatum Almagesti' (166r–177v); Campanus of Novara, *Theorica planetarum* (178ra–186vb); Alcabitus, *Introductorius* (187ra–198vb). F. Ira–1vb and 199ra–I^avb contain a fragment (?) of a non-scientific text from another MS.

Bibl. Delisle 1870, 45–46; Delisle 1868–1881, II, 145 and 184; Thorndike 1957, 148–49; Benjamin/Toomer 1971, 85; Samaran/Marichal 1959–1981, III, 703; Kristeller 1963–1992, III, 238; F. Avril, P. D. Stirnemann, *Manuscrits enluminés d'origine insulaire, VII^e–XX^e siècle*, Paris, 1987, 161 (no. 200); H. L. L. Busard, *Jordanus de Nemore: De elementis arithmetice artis. A Medieval Treatise on Number Theory*, Stuttgart, 1991, I, 57; Juste 2011–2015, II, 227–28; Miolo 2017, II, 65–84.

74r–122v ' <S>cientia species habet quarum melior post scientiam — sunt digniores ut evanescent et destruantur (?). Illud enim est propositum.'
= **Geber**, *Liber super Almagesti* (C.1.2). Preface, 74r–74v; I, 74v–79v; II, 79v–84v; III, 84v–87r; IV, 87r–92v; V, 92v–100v; VI, 100v–107v; VII, 107v–115v; VIII, 115v–118r; IX, 118r–122v. No glosses.

Paris, Bibliothèque nationale de France, lat. 16200

s. XIII¹, the copy of the *Almagest* was completed in December 1213 (cf. f. IIv: 'Liber iste fuit scriptus et perfectus ad exemplar beati Victoris Pariensis anno domini M^oCC^oXIII, mense Decembri' — the date was corrected into 'M^oCC^oLXIII' by a later hand, see Samaran/Marichal) and the *Almagesti minor* was added in the margins by the first glossator in or shortly after 1247 (see below). **Or.:** Paris; the *Almagest* was copied on an exemplar of St Victor of Paris (cf. note f. IIv, as above) and the initial on f. 1r was produced by the Parisian illuminator known as the 'Almagest Master' (see R. Branner, *Manuscript Painting in Paris During the Reign of Saint-Louis. A Study of Styles*, Berkeley-Los Angeles-London, 1977, 27–48). **Prov.:** Peter of Limoges (the second glossator), who heavily glossed and foliated the MS; college of Sorbonne before 1338 (f. 192r: 'Iste liber est pauperum magistrorum in domo de Sourbona commorantium, precii VIII lib<rarum>', which corresponds to no. 52 of the catalogue of 1338, see Delisle 1868–1881). Also on f. 192r, but in a different hand: 'Maistre Johan de Corte. VI lib<rarum>, die intrante Iulio, videlicet kal. Iunii (!).'

Parchment, II + 192 f., a single very neat hand, deluxe MS with superb painted initial representing Ptolemy as a crowned king (f. 1r) and numerous richly decorated initials throughout.

Ptolemaica (single text), except for glosses and added material, including a diagram with mathematical notes in a 13th- or 14th-c. hand (Iv) and a lengthy note by the first glossator 'Notandum quod Tholomeus ille duos libros de astronomia composuit, scilicet istum quem etiam de motibus stellarum, et alium quem varium (?) Alarbe 4...' (IIv). Blank: 1r, IIr, 192v.

Bibl. Delisle 1870, 46; Delisle 1868–1881, III, 68 (no. 52), 298; Samaran/Marichal 1959–1981, III, 513; Kristeller 1963–1992, III, 238; Kunitzsch 1986–1991, II, 12; D. Jacquart, 'Les manuscrits des traductions de Gérard de Crémone: quelques caractéristiques formelles', in

Les traducteurs au travail. Leurs manuscrits et leurs méthodes, ed. J. Hamesse, Turnhout, 2001, 207–20: 216–19; D. Jacquart, ‘Les sciences dans la bibliothèque de Saint-Victor’, in *L’école de Saint-Victor de Paris. Influence et rayonnement du Moyen Âge à l’Époque moderne*, ed. D. Poirel, Turnhout, 2010, 197–225: 205–06; Miolo 2017, II, 84–86; Zepeda 2018, 62–64; Georges (forthcoming).

1ra–191vb ‘Quidam princeps nomine Albugaefe in libro suo quem scientiarum electionem et verborum nominavit... (1va) Bonum scire fuit quod sapientibus non deviantibus visum est — abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Expleta est dictio XIII^a libri Ptolomei et cum ea completur liber *Almagesti* de disciplinalibus. Laus Deo. Amen.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1ra–1va; I, 1va–15ra; II, 15ra–35rb; III, 35rb–46vb; IV, 46vb–63vb; V, 64ra–80va; VI, 80va–97v; VII, 98ra–112r; VIII, 112v–125rb; IX, 125rb–141va; X, 141va–152ra; XI, 152ra–166vb; XII, 166vb–178r; XIII, 178va–191vb. Corrections by the scribe and substantial glosses by two 13th-c. hands. The first glossator, who heavily glossed the whole MS and is also responsible for the note f. IIv and for the second Ptolemaic section (below), said that he began to read the book in March 1247 (f. 1r: ‘et incepit liber iste legi anno gratie 1246, feria 5 ante Annuntiationem domini’) and left calculations dated May 1247 on f. 45v. The second glossator is Peter of Limoges, who glossed mainly, though not only, the first six books and harshly criticised the first glossator (cf. f. 20v: ‘Quicquid dicat iste cecus glosator... Noli verbis seu glosis eius attendere si non vis errare’, f. 56v: ‘Nota quod quicquid dicat iste trufatorius glosator...’ or f. 182r: ‘Quicquid dicat hec nocibilia (?) scripta...’). Peter also refers to his own glosses to the *Almagesti minor* in [→]Vatican, BAV, Reg. lat. 1261, where he refers in turn to the present copy of the *Almagest*, so going ‘back and forth between these two manuscripts’ (Zepeda, 64).

(5ra–96ra) ‘Formam celi spericam esse. Motus celi circulem circa terram undique... (6ra) Data circuli diametro latera decagoni...’

= ***Almagesti minor* (C.1.4)**, as glosses to the *Almagest* by the first glossator (see above). The text is loosely copied and includes many small changes, omissions and additions, as well as a different preface (ed. Zepeda, 609).

Paris, Bibliothèque nationale de France, lat. 16204

s. XIII² (third quarter acc. Stefan Georges, private communication, and François Avril, in his ‘fiche bibliographique’ devoted to the MS (<https://gallica.bnf.fr/ark:/12148/btv1b100005067/f.618>). The reference ‘1264, 7 Decembris’, found in a gloss p. 186 (bottom), is to the great conjunction of 1265, which is correctly dated in another gloss on the same page (but in different ink) ‘anni 663 perfecti, mensis unus, dies 27, hore 2, minuta 32, secunda 30’ = 7 December 1265, so making ‘1264’ a mistake in copying or conversion. This reference, however, is of little help in dating the MS, for the glossator proceeds with calculations of the positions of Jupiter and Saturn

for the following conjunction of 683 = 1285, implying that he was at work between 1265 and 1285, and even possibly after 1285 if he made retrospective calculations. **Or.:** northern France, probably Paris (Stefan Georges). **Prov.:** the MS was glossed by John of Murs (Miolo 2017, I, 674–75); college of Sorbonne before 1338. The MS is generally dated to the first half of the 13th c. and believed to have been commissioned, or at least owned, by Richard of Fournival, but evidence for this is missing. This hypothesis was first put forward by Pingree, who noted that the main part of the MS (pp. 1–552) ‘was copied by a scribe whose hand is identical or at least very similar to that of one employed by Richard of Fournival’, i.e., MS Paris, BnF, lat. 6602, f. 48r ff. (Pingree, ‘The Diffusion’, 83 and n. 88). Upon examination, however, these two hands are different. It is also noticeable that this MS does not bear the Sorbonne ex-libris characteristic of Richard’s MSS which entered the library in 1272 through Gerard of Abbeville’s bequest. On all this, see also Haynes.

Parchment, 584 pp., two very neat hands (1–552 and 553–84), splendidly executed MS with painted initials and numerous decorated initials throughout.

Astrology: Albumasar, *Introductorium maius*, tr. John of Seville (1a–183a); Albumasar, *De magnis coniunctionibus* (183b–302b); Albumasar, *De revolutionibus annorum mundi* (302b–333b); Albumasar, *Flores* (333b–353b); Albumasar, *De revolutione annorum nativitatum* (353b–369b); Alkindi, *De mutatione temporum* (371a–386a); Jafar, *De pluviis et ventis* (386a–387b); Messahallah, *Epistola de rebus eclipsium* (387b–391b); Messahallah, *De revolutionibus annorum mundi* (391b–404a); Messahallah, *Liber receptionis* (404a–422b); Messahallah, *De cogitatione* (422b–424a); Messahallah, *Liber interpretationum* (424a–428a); ‘Capitulum de scientia locorum si aliquid fuerit in eis aut non. Cum hoc volueris accipe altitudinem...’ (428a–428b); Gergis, *De significatione septem planetarum in domibus* (428b–432b); Zael, *Liber iudiciorum* (433a–500a); Thetel, *Liber sigillorum* (500a–505a); Azareus, *De lapidibus* (505a–507a); Haly Embrani, *De electionibus horarum* (507a–534b); Thebit Bencora, *De imaginibus* (534b–539b); **Ptolemaica (539b–543a and 543a–548a); Capitula Almansoris (548a–552b); Ptolemaica (553a–584b)**. Blank: 370. The MS once contained Aomar’s *De nativitatibus* and Albohali’s *De nativitatibus* after p. 370 (see Juste).

Bibl. Delisle 1870, 46–47; Thorndike 1957, 150–51; Kristeller 1963–1992, III, 238; D. Pingree, ‘The Diffusion of Arabic Magical Texts in Western Europe’, in Scarcia Amoretti 1987, 57–102: 81–87 and 100–02; Lemay 1995–1996, IV, 6–26; Lemay 1999, I, 352–72; B. Roy, ‘Richard de Fournival, auteur du *Speculum astronomiae*’, *AHDLMA* 67 (2000), 159–80: 178–79; Juste 2011–2015, II, 228–33; Miolo 2017, I, 370–80, 674–75 and *passim*; Bohak/Burnett 2021, 88–89; J. Haynes, ‘Roger Bacon and the Pseudo-Ovidian *De vetula*’, *The Journal of Medieval Latin* 32 (2022), 21–63: 28 n. 35.

539b–543a ‘Liber Ptholomei de ymaginibus super facies signorum. Opus ymaginum Ptholomei et est omnibus modis propior et veracior in probatione, quoniam eius effectus constitutus est super facies signorum 12. Dixit Alburabeth Benfeliz quia omnes orientales operabantur per has ymagines — et impetrabis a Deo quod animus tuus desiderat. Explicit liber Ptholomei de ymaginibus super facies signorum.’

- = **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14).** No glosses.
- 543a–548a ‘Hic est liber quem edidit Ptholomeus Phludensis in quo continentur C verba ex electissimis sententiis iudiciorum astrorum et est expositio ex commentario Hali medici magni. Verbum primum. Mundanorum ad oc (!) et ad illud mutatio celestium corporum — ex aliqua civitatum eiusdem climatis.’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3),** without the commentary. No glosses.
- 553a–584b ‘Hic est liber quem edidit Ptholomeus Phludensis in quo continentur C verba electissimis sententiis iudiciorum astrorum et est expositio ex commentario Hali medici magni. Verbum primum. Mundanorum ad hoc et ad illud mutatio celestium corporum mutatione causas rerum rimaturus primo celestia contemplare. Scientia namque astrorum ex te et illis est. Dixit Ptholomeus, mundanorum etc., premittens quasi fundamentum totius scientie iudiciorum astrorum... Quod autem dixit Ptholomeus, ex te et illis, significat quod res futuras prenoscere desiderat... (553b) Verbum secundum (!). Et non oportet peritum illorum iudicare secundum formam... Hoc quod dixit Ptho<lome>us, astrologus non debet dicere rem specialiter sed universaliter... (569b–570a) Dixerunt Pth<olome>us et Hermes quod Lune locus in hora... et hoc expertus fuit multociens — civitatum eiusdem climatis. Explicit liber centum verborum Ptholomei... et quanto melius quivimus exposuimus. Explicit expositio ex commentario Haly medici.’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3).** V. 1 is spread over two *verba* (1 and 2) and, consequently, v. 2 is called ‘verbum tercium’ etc., up to v. 97 and 98, which are both labelled ‘98’ (there are further irregularities in *verbum* numbers). The text includes Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) after the commentary of v. 51 on pp. 569b–570a (see below). No glosses. A couple of corrections by the scribe or a similar hand pp. 554 and 555.
- 569b–570a ‘Dixerunt Pth<olome>us et Hermes quod Lune locus in hora — et hoc expertus fuit multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5),** inserted after v. 51 in the *Centiloquium* above. No glosses.

Paris, Bibliothèque nationale de France, lat. 16208

s. XII² (c. 1162, Georges). **Or.:** copied and decorated in Bologna, most probably for Walter of Lille (Walter of Châtillon), who annotated the MS from c. 1165 to at least 1201 (Georges). **Prov.:** Walter of Lille; Roger of Fournival; Richard of Fournival (son of Roger); college of Sorbonne by 1338. It is possible, but not certain, that the college of Sorbonne acquired the MS in 1272 via Gerard of Abbeville’s bequest, as was the case for many of Richard of Fournival’s

manuscripts, but the characteristic Sorbonne's ex-libris naming Gerard of Abbeville as the legator is missing in this MS.

Parchment, 136 f., several contemporary neat hands, decorated initials.

Astrology and astronomy: astronomical and astrological notes and horoscopes, added by Walter of Lille (1r–1v); Algorismi [al-Khwārizmī], astronomical tables, adapted for Toledo, with canons (2ra–3vb and 5r–12v), in which Walter of Lille inserted a set of tables for Pisa/London for 1169–1289 (4r–4v); Raymond of Marseille, *Liber iudiciorum* (13ra–26ra); *Breviarium Albandrei summi astrologi*, ch. 7 (26rb); *Liber Arzachelis introductorius ad librum iudiciorum Arabum* (26va–33vb); Zael, *De interrogationibus* (33vb–44vb); Zael, *De electionibus* (44vb–48ra); Zael, *Liber temporum* (48ra–49va); Messahallah, *Epistola de rebus eclipsium* (49va–50va); horoscope of the eclipse of 1215, added by Roger of Fournival (50rb); Gergis, *De significatione septem planetarum in domibus* (50va–51vb); Messahallah, *De cogitatione* (51vb–52rb); Messahallah, *Liber interpretationum* (52rb–53rb); notes on an interrogation of 22 July 1130 'Aspexi hanc figuram et fuit autem signum et circulos...' (53va); notes on an interrogation of 18 November 1131 'Dixerunt sapientes quod omnis universalis interrogatio...' (53va–53vb); Albumasar, *Flores* (53vb–59ra); **Ptolemaica (59rb–65ra)**; Berengarius, *De horologio viatorum* (65ra–65va); short chapters on the astrolabe (65va–66rb); calendar, added by Walter of Lille (66va); *Liber ysagogarum Alchorismi* (67ra–71ra); Haly Embrani, *De electionibus horarum*, Book II (71ra–75vb); Pseudo-Aristotle, *Iudicia* (76ra–83vb); Hermann of Reichenau, *De mensura astrolabii* (83vb–85va); *De utilitatibus astrolabii* (85va–88va); Berengarius, *De horologio viatorum* (88va); Messahallah, *Liber receptionis*, incomplete (88va–91va); Toledan tables, partly adapted for Le Mans, with canons (92va–135r); *Tabula prenostica Salomonis* (135r); letter of 1163 by a certain Heribertus concerning a heretical sect in the region of Périgueux, added (135v); astronomical and astrological notes added by Walter of Lille and Roger of Fournival (136r–136v). Blank: 91vb–92r.

Bibl. Delisle 1870, 47; Delisle 1868–1881, III, 67; Bubnov 1899, LXV–LXVI; Thorndike 1957, 151–55; Zinner 1964, 9; R. H. Rouse, 'Manuscripts Belonging to Richard de Fournival', *Revue d'Histoire des Textes* 3 (1973), 253–69: 257; Kristeller 1963–1992, III, 238; F. Avril, M.-T. Gousset, *Manuscrits enluminés d'origine italienne*, II: *XIII^e siècle*, Paris, 1984, 65 (no. 70); Burnett 1987, 189–90 (no. 106); E. Poulle, 'La date de naissance de Louis VIII', *Bibliothèque de l'Ecole des Chartes* 145 (1987), 427–30; F. S. Pedersen, 'A Twelfth-Century Planetary Theorica in the Manner of the London Tables', *CIMAGL* 60 (1990), 199–318: 205–06; A. Allard, *Muḥammad ibn Mūsā al-Khwārizmī: le calcul indien (Algorismus). Histoire des textes, édition critique, traduction et commentaire des plus anciennes versions latines remaniées du XII^e siècle*, Paris-Namur, 1992, xxxvii; L. Toneatto, *Codices Artis Mensoriae. I manoscritti degli antichi opuscoli latini d'agrimensura (V–XIX sec.)*, Spoleto, 1994–1995, III, 1083–1087; Pedersen 2002, I, 165–66; Juste 2007, 363–64; M.-T. d'Alverny, C. Burnett, E. Poulle, *Raymond de Marseille: Opera omnia*, I: *Traité de l'Astrolabe, Liber cursuum planetarum*, Paris, 2009, 40–43; Juste 2011–2015, II, 236–40; Miolo 2017, I, 330–31, 370, 375–80 and *passim*; L. Miolo, 'La *Scientia stellarum* entre la France et l'Angleterre', in *France et Angleterre. Manuscrits médiévaux entre 700 et 1200*, eds C. Denoël, F. Siri, Turnhout, 2020, 389–413: 391–96 and 400–03; Georges (forthcoming).

- 59rb–65ra ‘Iudiciorum Ptolomei ad Aristonem filium suum liber incipit. Signorum alia sunt masculino generis, alia sunt feminini, scilicet ut Taurus, Cancer — neque amici neque inimici sunt ad invicem.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**. No glosses.

Paris, Bibliothèque nationale de France, lat. 16211

s. XIII^{ex} (glosses by another hand mentioning the years 1292 and 1285, f. 1v and 10v) or perhaps XIII^{ex}–XIVⁱⁿ, as suggested by Pedersen. **Or.:** northern France, MS perhaps copied for Philippe of Dunois (see Prov.). **Prov.:** Philippe, archdeacon of Dunois, who bequeathed the MS to the college of Sorbonne at an unknown date before 1338 (cf. f. Iv: ‘Iste liber est pauperum magistrorum de Sorbona ex legato Phi<lippi> Dunen<sis> archid<iaconus>...’); the MS is glossed by John of Murs.

Parchment, II + 111 f., a single neat hand, decorated initials.

Astronomy: table of contents, 14th c. (Iv); table of contents, modern (Iv); canons of Toledan tables (1ra–21vb); added astronomical notes (partly faded), including a table and the Arabic names of months and signs (IIv); Toledan tables (22r–98r); added note ‘Sinus est duplex, est enim sinus proprie...’ (99r); Pseudo-Thebit Bencora, *De motu octave spere* (100ra–104ra); ***Ptolemaica* (104rb–108rb)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (108rb–110rb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportione terre* (110rb–111vb). Blank: Ir, Iir, 98v, 99v.

Bibl. Delisle 1868–1881, II, 170; Pedersen 2002, I, 167; Miolo 2017, II, 115–20.

- 104rb–108rb ‘Incipit liber Thebith Bechorach de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Core de hiis que indigent expositione antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Paris, Bibliothèque nationale de France, lat. 16653

s. XIII^{ex} or XIVⁱⁿ (before 1306). **Or.:** France. **Prov.:** Peter of Limoges; college of Sorbonne in 1306 (f. 164v: ‘Iste liber est pauperum magistrorum de Sorbona ex legato magistri Petri de Lemovicis quondam socii domus huius’).

Parchment, 164 f., a single neat hand, decorated initials.

Ptolemaica (single text). Blank: 164r.

Bibl. Delisle 1870, 72; Delisle 1868–1881, II, 168 and III, 69; A. Birkenmajer, ‘Pierre de Limoges commentateur de Richard de Fournival’, *Isis* 40 (1949), 18–31: 28 (reprinted in Birkenmajer 1970, 222–35); Samaran/Marichal 1959–1981, III, 711; Juste 2011–2015, II, 241–43.

- 1r–163v ‘Dixit Egideus de Tebaldis Lonbardus de civitate Parmen<si>: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (1v) Tractatus primus glose Aly Abenrudiani super prima parte libri Quadripartiti Thol<ome>i Pheludiani. Dixit Aly: Verba que dixit sapientissimus Ptholomeus in arte iudiciorum astronomie... (3r) Capitulum primum primi tractatus libri 4 partium Tholomei. Res, Misori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — (159r) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit. Benedictus sit Deus gloriosus et sublimis et Deus illum dirigat qui scripsit. Amen. Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, et prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam.’
 = **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 1r–1v; Haly’s preface, 1v–3r; I, 3r–42v; II, 42v–80v; III, 80v–128r; IV, 128r–159r; Haly’s appendix, 159r–163v. Glosses mainly by Peter of Limoges, but also by Alfonsus Dyonisii of Lisbon at least f. 49v and 80v. Corrections by the scribe.

Paris, Bibliothèque nationale de France, lat. 16657

s. XIII¹. **Or.:** English hands and decoration for f. 2–132 (Georges); French hand and decoration for f. 133–146 (Patterson). **Prov:** the three parts of the MS belonged to Richard of Fournival (for whom they were probably copied acc. Rouse) and are recorded in his *Biblionomia* composed *c.* 1250 (see Note below); Gerard of Abbeville (*c.* 1261); college of Sorbonne (1272).

Parchment, 146 f., MS made of three parts (f. 2–81, 82–132 and 133–46), each copied by a single neat hand, painted initials at the beginning of each section, numerous decorated initials. A section is missing after f. 81.

Astronomy: Albategni, *De scientia astrorum*, end gone due to missing folia (2r–81v); ***Ptolemaica* (82v–132r)**; two diagrams and a note on retrogradation ‘Nota: P est centrum terre, O centrum excentrici deferentis — a primo argumento ad hoc quod diximus’ (132r–132v); ***Ptolemaica* (133r–146v)**. Blank: 1 (except for the ex-libris of the college of Sorbonne f. 1v) and 82r (except for the ex-libris of the college of Sorbonne).

Note The three parts of the MS correspond to entries nos 54 and 55 in Richard of Fournival’s *Biblionomia* (ed. Birkenmajer, 169). No. 54: ‘Liber extractionis elementorum astrologie ex libro Almagesti Ptolomei per Galterum de Insulla usque ad finem sexti libri ex eo [= f. 82v–132r]. Item tabule stellarum fixarum ex eodem assumpte. Item descriptio quadraginta octo ymaginum Ptolomei cum numero et dispositione stellarum in eis’ [= f. 133r–146v]. No. 55: ‘Machometi Albateigny ben Iebyreinem... Acharram liber in numeris stellarum et locis motuum earum experimenti ratione conceptarum [= f. 2r–81v].’ The second item of no. 54 (‘Item tabule...’) is no longer in the MS, unless it is the same as the third item.

Bibl. Delisle 1870, 73; Delisle 1868–1881, II, 148 and III, 62; A. Birkenmajer, ‘La bibliothèque de Richard de Fournival, poète et érudit français du début du XIII^e siècle, et son sort ultérieur’, in Birkenmajer 1970, 117–210 (work originally presented at the Polish Academy of Science in 1919): 142 and 169–70; R. H. Rouse, ‘Manuscripts Belonging to Richard de Fournival’, *Revue d’Histoire des Textes* 3 (1973), 253–69: 262; S. Patterson, ‘Minor Initial Decoration Used to Date the Propertius Fragment (MS. Leiden Voss. lat. O. 38)’, *Scriptorium* 28 (1974), 235–47: 241, 243 and *passim*; Miolo 2017, II, 160–68; Zepeda 2018, 55–56; Georges (forthcoming).

82v–132r ‘Minor Almagesti [title in the upper margin, perhaps by another hand]. <O>mnium recte phylosophantium non solum verisimilibus et credibilibus argumentis... (83r) Data circuli dyametro latera decagoni — nam visus locus Lune tunc ipse locus Solis. Et inclinationes quidem tenebrarum sic se habent. Explicit hic sextus liber et sexti glosa textus.’

= ***Almagesti minor* (C.1.4)**. A few marginal notes by the scribe and, possibly, by another hand. One longer gloss by a later hand f. 87r. The introduction (82v) was added at a later stage and by another hand, as confirmed by the fact that the initial on that page was not executed, while initials on the following pages were.

133r–146v ‘Tabula stellarum fixarum secundum quod semper sunt in ymaginibus signorum. Stellatio Urse Minoris. Tabula stellarum fixarum. Illa que est super extremitatem caude: (longitudo) 2^s 7° 15′ – (latitudo) 66° 0′ – (magnitudo) 3. Illa que est post istam super caudam: 2^s 9° 35′ – 70° 0′ – 4 — thaugebe dicuntur comete.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, VII.5–VIII.1, star catalogue, with longitudes adjusted +7°05′ (same in Florence, BML, Conv. Soppr. 414). No glosses.

Paris, Bibliothèque nationale de France, lat. 16659

s. XV (except for part III, dating from the first half of the 13th c.). **Or.:** France (?). **Prov.:** part III belonged to Richard of Fournival, to Gerard of Abbeville (c. 1261) and to the college of Sorbonne (1272); part II was given to the college of Sorbonne by François Guillebon (d. 1534) and was bound together with part III in the 17th c. No information regarding the origin or provenance of part I.

Parchment, 101 f. Composite MS made of three parts, each copied by a single hand: I, f. 1–2; II, f. 3–71; III, f. 72–101. The first part, which contains the Ptolemaic section, consists of two folia reused as binding, whose f. 1 is at present inaccessible for the most part (see below).

Ptolemaica (single text) (f. 1–2). The other parts of the MS contain Bartholomew of Parma’s *Breviloquium de fructu totius astronomie* (3r–67v) and Abraham Avenezra’s *Liber de rationibus tabularum* (72r–101r). F. 68–71 and 101v are blank.

Bibl. Delisle 1870, 73; Delisle 1868–1881, II, 148 and III, 68; Thorndike 1957, 155–60; R. H. Rouse, ‘Manuscripts Belonging to Richard de Fournival’, *Revue d’Histoire des Textes*

3 (1973), 253–69: 257; Kristeller 1963–1992, III, 265; Juste 2011–2015, II, 243–44; Miolo 2017, II, 171–73. My thanks to William Duba who identified the Ptolemaic text and called my attention to it.

1v–2v ‘...t contra suos <parentes et dicet turpia et> mala dicta <et si fuerit infirmitas que est> serementum (?) <demonum, que est propter magnam> humiditatem <vincentem in cerebro, faciet eos> angustos et <stultitias, facient discohopertas,> insultabunt <in hominem et percutient et tal>es res facient — quas habet hec pars anime est id quod pertinet ad sapes corporis. <E>t diversitates, que proprie accidunt in parte...’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**, fragment from III.15. F. 1 was glued on the inner front cover, making the text on the recto inaccessible, and a sheet of paper of smaller size (containing a brief description of the MS in a 19th-c. hand) was glued on the verso, making about two thirds of it inaccessible. The last sentence (‘Et diversitates...’) repeats the beginning of Ptolemy’s lemma from the previous paragraph, a paragraph which was crossed out by the scribe, who added in the margin ‘vacat’. No glosses.

Paris, Bibliothèque nationale de France, lat. 17178

s. XV. **Prov.:** acquired by the Bibliothèque nationale at an unknown date in the 18th or 19th c.

Paper, 38 f., composite MS, whose f. 30–37 form one unit copied by a single neat hand. This section is damaged, especially in the upper part of the pages, making the text illegible in places. Folia are missing at the beginning and at the end and those remaining were bound in disorder. The right order is f. 32, 30, 34, 36–37, 35, 31, 33. Moreover, the scribe’s exemplar was already incomplete (f. 33r: ‘et est defectus unius folii de hymaginibus’).

Astral magic (f. 30–37): ***Ptolemaica* (32r–32v, 30r–30v and 34r)**; ‘Notabilia Ruberti de nativitatibus. Verba viri prudentis et fidelis domini Ruberti de termino nascentium et egrotantium secundum influentiam corporum superiorum caelestium. Ego dico quod stellae magnum habere effectum — Et sic est finis collectae lectoris Ruberti Pittaractisis (?), et sunt adhuc quattuor capitula alia in quibus quia nullam invenio utilitatem ideo non scripsi’ (34r–34v and 36r–37r); ‘De sigillis signorum. Arietis sigilla... De ordine planetarum. Ymago Solis figura... De caracteribus. Solis caracteres...’ (37r–37v); ‘Hermes. De nominibus angelorum et planetarum. Nomina angelorum et planetarum sunt haec...’ (37v and 35r); ‘Ad amorem. Cum Luna fuerit in Cancro in hora Veneris, formabis y<maginem> de Iove in nomine illius personae quam volueris...’ (35r–35v, 31r–31v and 33r); ‘De circulis. <I>tem cum effodere vis, elige ut sit Luna cum duce fortunato vel ei applicet — et sunt isti circuli totales. Et est defectus unius folii de hymaginibus’ (33r); ‘De hymaginibus. Iste libellus de hymaginibus Virgillii intitulator, ipse enim aliquando per ymaginem operabatur — Explicit liber Virgillii de circulis et hymaginibus’ (33r–33v); ***Ptolemaica* (33v)**.

Note The text ‘Ad amorem...’ opening on f. 35r is a compilation made of a dozen of chapters dealing with astrological images, three of which (all on f. 35v) come from Pseudo-Ptolemy’s

De imaginibus super facies signorum (B.14): ‘Ligatio ursorum. Cum volueris ligare ursos... [second decan of Cancer] ... Ut non impediunt te serpentes. Cum volueris ut non impediunt te serpentes... [second decan of Aries] ... Ut te puella sequitur. Cum volueris provocare aliquam puellam ut sequitur... [second decan of Cancer].’

Bibl. L. Delisle, *Inventaire des manuscrits de Notre-Dame et d’autres fonds conservés à la Bibliothèque Nationale sous les numéros 16719–18613*, Paris, 1871, 33; Juste 2011–2015, II, 244–46.

(32r–34r) ‘... capita sed caudas. De equorum constrictione. Cum autem volueris videre mirabilia de equis — et impetrabis ex eo quod animus tuus desiderat. Sic est finis l... (?) Tholomei de y<maginibus>. Qu... (?) ad amorem ... (?) ...ales (?) spiritus amore meum cordi illius adhibere quandiu illa y<mago> ...averit (?)’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, opening with the last words of the second decan of Taurus. Folia to be read in the order 32, 30, 34. No glosses.

33v ‘Ptholomei regis Egiptii liber incipit. Antiquorum secreta ruminando philosofoforum nullum opus — carmen conveniens tali negotio quod in fine libri sequitur parte (?) acci...’
= **Pseudo-Ptolemy, *Liber Ptholomei regis Egiptii* (B.15)**, beginning only, due to missing folia. No glosses.

Paris, Bibliothèque nationale de France, lat. 17864

s. XIII^{ex}–XIVⁱⁿ (14th c. acc. Kunitzsch). **Or.:** France (Kunitzsch). **Prov.:** Paris, convent of the Grands-Augustins.

Paper, 116 f., a single hand, large painted initial on f. 1r, painted initial at the beginning of each book of the *Almagest*, decorated initials. F. 1 is mutilated in the upper right corner.

Ptolemaica (single text).

Bibl. L. Delisle, *Inventaire des manuscrits de Notre-Dame et d’autres fonds conservés à la Bibliothèque Nationale sous les numéros 16719–18613*, Paris, 1871, 71; Kristeller 1963–1992, III, 240; Kunitzsch 1986–1991, II, 14–15.

1r–116v ‘Quidam princeps nomine Albugaife in li<bro suo quem scientiarum electio>nem et verborum nominavit... (1v) <Bonum scir>e fuit quod sapientibus non deviantibus visum est — abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Expleta est dictio XIII libri Ptholomei et cum ea conpletur liber Almagesti de disciplinalibus.’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1r–1v; I, 1v–9v; II, 9v–25r; III, 25r–33r; IV, 33r–43r; V, 43r–53v; VI, 53v–62v; VII, 62v–72v; VIII, 72v–81v; IX, 81v–87r; X, 87r–93r; XI, 93r–102r; XII, 102r–108v; XIII, 108v–116v. No glosses.

Paris, Bibliothèque nationale de France, n.a.l. 208

s. XV^{ex}.

Paper, 21 f., two hands (f. 2–21r and 21v–22r).

Astrology and astronomy: treatise on nativities (2r–21r) opening with *Ptolemaica* (2r–2v) — this treatise also occurs in MS $\rightarrow$ Basel, UB, O.III.31, f. 5r–18v, where it is entitled ‘Liber continens canonem magistri Alberti de Pruzauff super nativitates et iudicia, coll<e>ctium (!) in universitate Cracoviensi’; ‘Ad inveniendum verum motum Saturni, Iovis et Martis, primo quere...’ (21v–22r). Blank: 1, 22v.

Bibl. L. Delisle, *Bibliothèque nationale. Manuscrits latins et français ajoutés aux fonds des nouvelles acquisitions pendant les années 1875–1891*, Paris, 1891, I, 28; Kristeller 1963–1992, III, 271; Markowski 1990, 318; Juste 2011–2015, II, 252.

2r–2v ‘<C>irculum pro exitu geniture ab utero iuxta verbum Pto<lomei> 51 rectificare. Primo considerandum est tempus geniture in anno, die, hora — in tabula a tempore sequente.’
= **Albertus de Brudzewo (?)**, *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17), as first chapter of the treatise of nativities. Glosses by the scribe.

Paris, Bibliothèque nationale de France, n.a.l. 625

s. XIV^{med} (f. 10–71 copied between 1348 and 1350). **Or.:** f. 10–71 copied in Paris and in Erfurt (cf. f. 13va: ‘Explicit theorica planetarum, scripta Parisius anno domini 1348 in vigilia Agnetis virginis’, f. 34r: ‘Explicit liber Alkapicii inchoatus Parisius sed completus Erfordie, anno domini 1349 in crastino nativitatis virginis gloriose’, f. 51v: ‘Explicit tractatus spere..., scriptus Erfordie anno domini 1350, perfecta in vigilia Michaelis’, f. 61v: ‘Explicit utilitas sive practica astrolabii..., scripta Erfordie anno domini 1350’ and f. 70v: ‘Explicit tractatus de proportionibus..., scriptus Parisius anno... 1348’), probably by Themo Judei. **Prov.:** ‘Ex Bibl. Battlesden [Battlesden, Bedfordshire?], Martii 1827’ (f. 2v); Thomas Phillipps (no. 3122).

Parchment, 181 f., two main hands copied f. 10–71 (probably Themo Judei) and 89v–181r respectively, decorated initials.

Astronomy, astrology, arithmetic and various: table of contents, 14th c. (2v); end of a lapidary (3va); Marbode of Rennes, *De lapidibus* (3va–9vb); *Theorica planetarum Gerardi* (10ra–13va); Prophatius Judeus, *De aspectibus Lune ad alios planetas* (13va–15va); fragment of a table (15vb); Prophatius Judeus, *Quadrans novus* (16ra–19vb); Alcabitius, *Introductorius* (20ra–34ra); *Ptolemaica* (34ra–46va and 46va–46vb); ‘Incipit tractatus de questionibus domorum celi et naturis planetarum. Capitulum ad sciendum voluntatem in intentionem venientis ad te pro intentione querendi... Cum vides aliquem ad te venientem et consideras...’ (46vb–49vb); ‘Spera est corpus rotundum sicut pilea vel pomum...’ (50ra–51vb, this text differs from Costa ben Luca’s *De sphaera solida*); Sacrobosco, *Algorismus* (51vb–53vb); table of squares and cubes (54r); *Capitula Almansoris* (54va–57ra); ‘Incipit ars componendi astrolabium edita et

inventa a Ptholomeo rege Egipti peritissimo astrorum. Rex astrorum Ptholomeus prudens in scientiis...' (57ra–59va); 'Incipit usus utilitatum eiusdem. Zelo et amore quorundam...' (59va–61va); 'Sciendum quod quamvis omnes stelle habeant virtutem in movendo corpora inferiora...' (61va–61vb); Thomas Bradwardine, *Tractatus proportionum* (62ra–70va), with comm. Johannes Dumbleton (70va–71vb); 'Modus generalis misterandi numeros. In perscrutando ergo numerorum misteria...' (72ra–76ra); 'Compendium numerorum. Omnia, domine Ihesu teste, sapientia in numero, pondere et mensura disposuisti...' (76rb–81ra) and other texts on numbers and arithmetic (81ra–85va); astronomy 'Per patris ingeniti gratiam qui balbutientibus eloquentia...' (85va–89rb); *Astronomia Ypocratis* (89va–93rb); 'Incipit practica astronomie quantum pertinet medico, intitulata flores. Per primum numerum parem...' (93va–97v); Seneca, *Epistolae* and other texts (98ra–181ra). Blank: 3r, 181v. F. 1–2 contain extraneous material.

Bibl. H. Omont, 'Nouvelles acquisitions du département des manuscrits de la Bibliothèque nationale pendant les années 1896–1897', *Bibliothèque de l'École des Chartes* 59 (1898), 81–135: 89–90; H. Hugonnard-Roche, *L'œuvre astronomique de Thémon Juif, maître parisien du XIV^e siècle*, Genève-Paris, 1973, 16–17; Samaran/Marichal 1959–1981, IV.1, 107; Lemay 1999, I, 372–76; Juste 2011–2015, II, 258–59.

34ra–46va 'Incipit Centilogium Ptholomei. (34rb) Mundanorum ad hoc et ad illud mutatio est ex corporum celestium... Prima propositio Ptholomei. Scientia astrorum ex te et illis... Astronomus non debet dicere aliquid specialiter sed universaliter... Quod dixit, ex te et illis, significat quod qui res futuras cognoscere desiderat — et quanto melius quivimus exposuimus. Explicit Centilogium Ptholomei peritissimi astronomi cum commento Haly.'
= **Abuiafar Hamet filius Joseph**, *(Commentum in Centiloquium)*, 'Mundanorum' version (C.3.1.3). No glosses.

46va–46vb 'Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Explicit distinctio stellarum cometarum.'
= **Pseudo-Ptolemy**, *De cometis* (B.4). No glosses.

Paris, Bibliothèque nationale de France, n.a.l. 693

s. XIVⁱⁿ (the MS was probably copied for the most part before 1321–1325, cf. f. 3v–4r and 202–203, and perhaps c. 1312, cf. f. 23–60; Poulle dated the whole MS to the 13th c. and, more precisely, to 1235–1236 on the basis of the five horoscopes f. 92r–93r, but the planetary positions displayed in these horoscopes are confused and do not appear to be correct for either 1235 or 1236, nor for any date between 1100 and 1330). **Or.:** England and more precisely Wales (cf. f. 2r–4v), where the MS was glossed by contemporary and somewhat later hands (Ivanov/Falileyev). **Prov.:** Bertram Ashburnham (d. 1878).

Parchment, 204 f., several hands, with numerous additions in the margins.

Astronomy, astrology and medicine: scattered notes and pen trials (1r–1v); calendar for Wales (2r–4v), with added notes for 1325–1339 (3v–4r); computus notes and tables (5r–8r), including

a table for 1296–1492 (8r); Pseudo-Messahallah, *De compositione astrolabii* (9r–13v), with additions mentioning Oxford (13v–14v); Zael, *Introductorium*, ch. 18 (15r); **Ptolemaica (15r–15v)**; ‘Cum fiat naturarum corruptio et mutatio earum per planetarum effectus...’ (16ra–20ra); diagrams with text on the lunar nodes ‘Iste figure sunt ad sciendum quando planete sint in Capitibus Draconum sive Caudis...’ (20va–21ra); astrology in French (21v); Arabic-Latin glossary of astronomical and astrological terms (22r); table: 168 planetary hours (22r); planetary tables starting in 1312 (23r–60v); **Ptolemaica (61r–92r)**; five revolution horoscopes, not dated and apparently not datable (92r–93r); astrological notes in French (93v); astrological chapters ‘Dignior et fortior omnibus locis circuli est ascendens...’ (93v–95r); Pseudo-Aristotle, *Chiromantia* (95v–97r); Zael, *Liber iudiciorum*, selection of chapters (97v–107vb); *Astronomia Ypocratis* (107vb–109va); meaning of Arabic astronomical and astrological terms ‘Allibel (?) arabice hoc est quando planeta est in angulo...’ (109va); six chapters of interrogations ‘De hora partus mulierum. Cum interrogatus fueris de muliere pregnante quando pariet...’ (109va–110ra); Albumasar, *De magnis coniunctionibus*, Books VII, III–IV, VI and V (111ra–135ra); ‘Primum clima est Iudeorum et in ipsum est Saturni...’ (135ra–135va); Roger of Hereford, *Liber de tribus generalibus iudiciis astronomie* (135va–138vb); Lanfranc of Milan, *Chirurgia parva* (139ra–149va); medical recipes (149va–150vb and 152ra–153rb, see Ivanov, 5–6); ‘Nota quod Saturnus est frigidus et siccus...’ (153va–154vb); medical recipes in Latin, French and English (154vb–195r, see Ivanos, 6–10); epistolary formulas (195v–201r and 204r); notes on the entry of the Sun in the signs for 1321–1325 (202r–203v). Blank: 8v, 22v, 110v, 151r–151v, 155v, 201v, 204v (except added notes).

Bibl. H. Omont, *Bibliothèque Nationale. Nouvelles acquisitions du département des manuscrits pendant les années 1898–1899*, Paris, 1900, 13–14; Thorndike 1957, 160–61; E. Poulle, ‘Les positions des planètes au Moyen Âge’, in *Comptes Rendus des Séances de l’Académie des Inscriptions et Belles-Lettres* (1967), 531–48: 534–36 (reprinted in E. Poulle, *Astronomie planétaire au Moyen Âge latin*, Aldershot, 1996, III); Burnett 1987, 190 (no. 110); F. Avril, P. D. Stirnemann, *Manuscrits enluminés d’origine insulaire, VII^e–XX^e siècle*, Paris, 1987, 124 (no. 167); Pedersen 2002, I, 168–69; Juste 2007, 367–68; Juste 2011–2015, II, 259–61; S. Ivanov, A. Falileyev, ‘Bibliothèque Nationale de France NAL 693 and some Episodes in the History of Monmouth in the Fourteenth Century’, *The Welsh History Review* 28 (2017), 457–69; S. Ivanov, ‘The “Physique rimé” in the Mediaeval Manuscript Bibliothèque nationale de France, nouv. acq. lat. 693, and Its Prologue’, *SA* 103 (2019), 3–25.

15r–15v ‘1. Scientia astrorum ex te et illis est. Et non oportet peritum illorum iudicare secundum fortunam — quoniam unum est iudicium in hiis omnibus. Alemezoille (?), Wezewiec (?), Elzeuwei (?) sunt secundarie, id est qui distant a Sole II signis.’

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**, v. 1, 5–6, 8–11 (v. 11 wrongly numbered 11 and 12 in the margin), 14, 17–24 (v. 17–18 wrongly numbered 18–19), 26, 36–38, 51, 53–54, 68–69, 74–76, 79–80, 91, 96, 55 and 59, without the commentary and sometimes incomplete. No glosses.

61r–92r ‘Incipit liber quatuor tractatum Batholomei Alfalisohi (?) in scientia iudiciorum astrorum. Tractatus primus est in primo tractatu sunt 24 capitula.

Capitulum primum in collectione intellectu (!) sciencie iudiciorum astrorum. Rerum securi in quibus est pronosticabilis scientia stellarum perfectio magnas et preciosas divisiones (?) deprehendimus — (89r) hoc in loco huic libro Deo volente finem imponere non incongruum existimamus. Explicit liber quatuor Batholomei in iudicandi discretione per stellas de futuris in hoc mundo constitutionis et destructionis contingentibus. (89v) Capitulum tertium secundi libri in similitudine regionum cum triplicitatibus et stellis. Quoniam igitur figure triplicitatum que formantur in circulo signorum — in tempore cuius ipse fundate cum observare debemus.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 61r–68v; II, 68v–73v (except ch. II.3, copied below, f. 89v–92r); III, 73v–83v; IV, 83v–89r. The text is followed by Pseudo-Ptolemy’s *Liber projectionis radiorum stellarum*, 89r–89v (see below) and by ch. II.3, 89v–92r. The latter is missing in the text above, see note added by the scribe in the margin of f. 69v: ‘Quere capitulum tertium in 24 folio sequenti.’ A few marginal notes by the scribe and by another hand.

89r–89v ‘Scientia projectionis radiorum. Cum projectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate.’
= **Pseudo-Ptolemy, *Liber projectionis radiorum stellarum* (B.6)**. No glosses, except one short marginal note by the scribe f. 89v.

Paris, Bibliothèque nationale de France, n.a.l. 1893

s. XIVⁱⁿ (c. 1323, cf. notes added in the margin of the calendar by an early owner, probably Robertus de Bardis: ‘Hic incepti cursum meum in theologia et fuit dies Lune 1323^o incompleto’ (f. 6r, at 24 October) and ‘Hic complevi lecturam meam et fuit dies Martis 1323^o incompleto’ (f. 7r, at 13 December); further notes, partly in French, added on f. 139v, concern events dated 1327 and 1329). **Or.:** France, most probably the University of Paris. **Prov.:** Robertus de Bardis (Robertus de Bardis), chancellor of the University of Paris in 1336 and dedicatee of John of Ligneris’s *Tabule magne*, cf. his gloss to the *Centiloquium* on f. 125rb, where he reports on an astrological experiment that he conducted together with John of Ligneris (see below); ‘Philipot de Saint Jehan’, 15th c. (f. 139r).

Parchment, 139 f., a single neat hand, reserved initials.

Astronomy and astrology: Petrus de Dacia, *Kalendarium* (1ra–8v); Sacrobosco, *Algorismus* (9ra–13va); Sacrobosco, *De sphaera* (13vb–22vb); *Algorismus de fractionibus* ‘Cum multos de numeris tractatus vidisses...’ (23ra–24rb); Sacrobosco, *Computus* (24va–41rb); Robertus Anglicus, *Quadrans vetus* (41va–46rb), with solar tables 1292–1295 (46r–48r); Pseudo-Messahallah, *De compositione astrolabii* (48va–65rb); *Theorica planetarum Gerardi* (65rb–71va); Pseudo-Thebit Bencora, *De motu octave spere* (71vb–74rb); **Ptolemaica (74rb–76vb)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (77ra–78ra); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (78rb–79va); Petrus de Sancto Audomaro, *Tractatus de semissis* (79va–91rb); Alcabitius,

Introductorius (91rb–109rb); **Ptolemaica (109va–138ra)**. Blank: 138v–139v (except added notes).

Bibl. H. Omont, ‘Nouvelles acquisitions du département des manuscrits de la Bibliothèque nationale pendant les années 1905–1906’, *Bibliothèque de l’École des Chartes* 68 (1907), 5–74: 26; Samaran/Marichal 1959–1981, IV.1, 349; Pedersen 1983–1984, I, 274–75, and II, 657; Juste 2011–2015, II, 269.

74rb–76vb ‘Incipit liber Thebit Bencorath de hiis que indigent expositione antequam legatur Almagesti. <E>quator diei est circulus qui describitur super 2 polos orbis — aut propinqui oppositi erunt retrogradi. Expletus est liber Thebith filii Chore de hiis que indigent expositione antequam legatur Almagestum.’ = **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

109va–138ra ‘Incipit Centiloquium Ptholomei de iudiciis. <D>ixit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Prima. <S>cientia stellarum ex te et ex illis est. Astrologus non debet dicere rem specialiter sed universaliter... (109vb) Item, prima. <M>undanorum mutatio ad hoc et ad illud celestium corporum mutationem... (110ra) Item, prima. <D>octrina stellarum ex te que ex illis est. Nec est doctrina in eis ut prophetes formam... (110rb) Ex Hali. <D>icit Ptholomeus, ex te et ex illis est, significat quod qui res futuras scire desiderat — et ego Deum deprecor ut te dirigat. Et perfecta est huius libri translatio tertia die mensis Martii et secunda diei mensis Gimedi secundi anno Arabum 530. Explicit Centilogium Ptholomei.’ = **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). A few short marginal notes by the scribe and by two other hands, including Robertus de Bardis, who added the last paragraph of Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) and personal remarks as a gloss to v. 51 in the margin of f. 125rb: ‘Dixit Habraam Isbenderit: Gradus infusionis spermatis non erit — fuit multotiens. Et scias quod ego Robertus de Bardis una cum magistro Iohanne de Lineriis probavimus hoc esse verum in nativitate nepotis dicti magistri Iohannis, quam precise habuimus per instrumenta et non per extimationem, unde in illa nativitate invenimus quod locus Lune non fuit gradus ascendens hora casus spermatis, nec locus Lune hora casus spermatis fuit gradus ascendens hora nativitatis, sed gradus oppositi hiis gradibus.’

Paris, Bibliothèque nationale de France, n.a.l. 3091

s. XIII^{ex} (after 1281, date of the translation of Abraham Avenezra’s *De mundo vel seculo*). **Or.:** the MS was perhaps commissioned by Henry Bate of Mechelen, who might be responsible for

some of the glosses (d'Alverny/Pouille, 356). **Prov.:** acquired by the Bibliothèque Nationale in 1956.

Parchment, 149 f. (numbered 87–235 by a 15th-c. hand), several neat hands, one of which copied f. 81–113r, decorated initials.

Astronomy and astrology: Toledan tables (1r–79r); Henry Bate of Mechelen, tables of Mechelen (79v–80v); Alcabitius, *Introductorius* (81ra–92rb); **Ptolemaica (92va–104ra)**; Jafar, *Liber imbrium* (104rb–106va); Hermann of Carinthia, *Liber imbrium* (106va–107rb); Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. Haly (107rb–107vb); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen (107vb–113rb); Albumasar, *Introductorium maius*, tr. Hermann of Carinthia (113va–141rb); Albumasar, *Flores* (141rb–147vb). Blank: 148r–149v (except for a few added notes, including f. 148v: 'Nota quod tres fuerunt Haly. Primus fuit Haly philosophus; secundus fuit ille Haly qui fecit commentum super Centiloquium Ptolomei; tertius fuit qui fuit astrologus et fuit Haly Habenragel. Ille autem qui fecit commentum super Centiloquium habuit nomen Haly Badaor').

Bibl. M.-T. d'Alverny, E. Pouille, 'Un nouveau manuscrit des *Tabulae Mechlinenses* d'Henry Bate de Malines', in *Actes du VIII^e Congrès International d'Histoire des Sciences (Florence-Milan, 3–9 septembre 1956)*, I, Firenze-Paris, 1958, 355–58; S. Solente, 'Nouvelles acquisitions latines et française du Département des manuscrits de la Bibliothèque nationale pendant les années 1951–1957', *Bibliothèque de l'École des Chartes* 117 (1959), 135–273: 162–63; Lemay 1995–1996, VII, 52–71; Lemay 1999, I, 319–21; Pedersen 2002, I, 169–70; Juste 2011–2015, II, 270–71.

92va–104ra 'Centiloquium Ptholomei cum commento Haly [title added in upper margin by another hand]. Dicit Ptholomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est. Astrologus non debet dicere rem specialiter sed universaliter... Mundanorum mutatio ad hoc et ad illud celestium corporum mutationem... Doctrina stellarum ex te et ex illis est. Nec est doctrina in eis ut propheres formam... (92vb) Idem, dicit Ptholomeus, ex te et ex illis est, significat quod qui res futuras scire desiderat — et ego Deum deprecor ut te diligat. Et perfecta est huius libri translatio tertia die mensis Martii, secunda diei mensis Gumedii secundi anno Arabum 309. Explicit Centilogium Ptholomei.'
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the 'Mundanorum' version (C.3.1.3) and in Adelard of Bath's translation (B.1.1) (= 'threefold' version). Two marginal notes by a later hand f. 92v and 93r.

Paris, Bibliothèque de la Sorbonne, 593

s. XV.

Paper, 187 f., two neat hands (I: f. 2r–125ra; II: f. 1v and 125ra–187v).

Ptolemaica (single text), preceded by full chapter index of *Quadripartitum* in a contemporary hand (1va–1vb). Blank: 1r.

Bibl. *Catalogue général des manuscrits des bibliothèques publiques de France. Université de Paris et universités des départements*, Paris, 1918, 146–47.

2ra–187vb ‘Prohemium translatoris ad regem Alfonsum. Scire et intelligere est gloriosum quia omnis scientia est gloriosa... (2va) Prohemium Haly Aberrundiani (!). Verba que dixit sapientissimus Ptholomeus in arte iudiciorum... (4vb) Res, o Mizori, quibus perficiuntur prenosticationes accepte de astronomia maiores et nobiliores sunt due — (183rb) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit. Deo gracias. Volo in hoc loco tibi dare exemplum trium nativitatum ut melius intendas quidquid locuti sumus in eis. Prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas ut Deus te dirigat in vitam eternam. Volui probare utrum iste actor (!) iudicaret secundum nonam speram vel secundum octavam et inveni per loca planetarum que sunt in figura sue nativitatis quod ipsa fuit annis Christi perfectis 986, 10 mensibus, 15a die Ianuarii, qua die equavi planetas secundum tabulas Mach<linienses> et inveni sic.’
= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 2ra–2va; Haly’s preface, 2va–4va; I, 4vb–51rb; II, 51va–97va; III, 97va–150va; IV, 150va–183rb; Haly’s appendix, 183rb–187vb; additional note, 187vb. No glosses.

Paris, Bibliothèque de la Sorbonne, 595

s. XIV¹. **Or.:** Paris (?).

Parchment, 115 f., one or similar neat hands, reserved initials. One or several folia are missing after f. 63.

Computus, arithmetic and astronomy: astronomical calendar (1r–6v) and computus tables (7r–8v); Sacrobosco, *Algorismus* (9ra–16ra); Sacrobosco, *De sphaera* (16rb–28va); *Algorismus de fractionibus* ‘Cum multis de numeris tractatus vidisses...’ (28va–30va); Sacrobosco, *Computus* (30va–55ra); Robertus Anglicus, *Quadrans vetus* (55ra–62ra); **Ptolemaica (62ra–63vb)**; end of a text on the sundial ‘... et sic de aliis punctis proporcionaliter. Explicit’ (64ra–65ra); ‘Incipit canon in chilindrum, quod dicitur horologium viatorum...’ (65rb, no canon but drawing of the instrument); solar tables 1304–1307 for Paris (65v–67v); Pseudo-Messahallah, *De compositione astrolabii* (68ra–88ra); *Theorica planetarum Gerardi* (88ra–95vb); Pseudo-Thebit Bencora, *De motu octave spere* (95vb–99ra); **Ptolemaica (99ra–102rb)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (102rb–103vb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (103vb–105va); two star tables (105va–105vb); Prophatius Judeus, *Quadrans novus* (106ra–113rb); astronomical diagrams (113v–114r); added table of contents, 15th c. (115v). Blank: 114v–115r.

Bibl. *Catalogue général des manuscrits des bibliothèques publiques de France. Université de Paris et universités des départements*, Paris, 1918, 147–48; Zepeda 2018, 71–72.

- 62ra–63vb ‘Incipit opus armillarum Ptholomei. Queruntur primo due armille convenientis mensure — (63ra) vicinior vero est consideratio. Opus instrumenti declinationis Solis. Sume laterum ligneum vel lapideum — (63rb) si Solis umbram in omni meridie circa maxime solsticium observaberis vel observaveris. Instrumentum diversitatis aspectus Lune. Sumantur tres regule recte et planissime — tamdiu donec per utrumque foramen Luna compa...’
 = *Almagesti minor* (C.1.4), excerpts on instruments from V.1, I.15 and V.11 (abrupt end due to missing folia). No glosses, but two drawings of instruments by the scribe f. 63r: ‘Instrumentum declinationis Solis’ and ‘Instrumentum latitudinis Lune.’
- 99ra–102rb ‘Incipit liber Thebith de hiis que indigent expositione antequam legatur Almagesti. <E>quator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Core de hiis que indigent expositione antequam legatur Almagesti.’
 = *Thebit Bencora, De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Parma, Biblioteca Palatina, 718–720

s. XIII¹ (in or after 1219, cf. f. 116r: ‘Annis domini 1218 perfectis...’, and before c. 1235 acc. Georges). **Or.:** England, probably Oxford (Georges). **Prov.:** the MS was in Italy, or at least supplemented by an Italian scribe, c. 1300 (Georges).

Parchment, 478 f., three volumes continuously foliated (no. 718: f. 1–73; no. 719: f. 74–343; no. 720: f. 344–478), which originally formed one volume, one main hand (except for f. 1–8 and 442–455), decorated initials.

Arithmetic, music, astronomy, astrology and optics: Boethius, *De arithmetica* (1r–27v); Boethius, *De musica* (28r–73v); *Ptolemaica* (74r–271r, 271r–274r, 274r–274v); Albumasar, *Flores* (274v–285r); Martianus Capella, *De nuptiis Mercurii et Philologiae*, Book VIII (285r–291r); Alfraganus, *De astrorum scientia*, tr. Gerard of Cremona (291r–311r); *Ptolemaica* (311r–343v); Albumasar, *Introductorium maius*, tr. Hermann of Carinthia (344r–402v); Alcabitus, *Introductorius* (403r–418v); *Liber de motibus planetarum*, attr. Abraham ‘De motibus planetarum secundum Abraham’ (418v–422r); ‘Inter omnes recte philosophantes Egiptii celestium motuum sapientia...’ (422v–423v); Raymond of Marseille, *Liber cursuum planetarum*, second part (423v–427v); ‘In compositione almanac primo scribes ferias totius anni...’ (427v–428r); ‘In plana tabula quartam circuli partem diligenter...’ (428r–430r); Hermann of Carinthia, *Liber imbrium* (430r–432r); Jafar, *Liber imbrium* (432r–436v); six astrological chapters ‘Capitulum ad inveniendum res absconditas et futuras...’ (436v–437r); ‘Tabula ad sciendum pluviarum horas per totum annum secundum sententiam Indorum’ (437r); Jafar, *De pluviis et ventis* (437v–438v); table of lunar mansions ‘Cornua Arietis est quedam stella que incipit a primo gradu Arietis...’ (438v); astrometeorology ‘Iudicium particulare de aeris mutatione in coniunctione Solis et Lune. Considera signum ascendens et eius naturam...’ (439r–440r); ‘Cum velis segetum prenoscere eventum in singulis annis...’ (440r–440v); astronomical diagram

(440v); canons Cb of Toledan tables ‘Quoniam cuiusque actionis quantitatem...’ (441r–460r); ‘Liber Ptolomey. In eclipsi tam Solis quam Lune cum argumento Solis...’ (460r–464v); Euclid, *De visu* (465r–472v); Euclid, *De speculis* (472v–476r); Jordanus de Nemore, *Elementa super demonstrationem ponderum* (476r–477v); *Liber de canonio* (477v–478v).

Bibl. F. Odorici, *La Nazionale Biblioteca di Parma*, Torino, 1873, 34 (not seen); Kristeller 1963–1992, II, 554; Kunitzsch 1986–1991, II, 15; Lemay 1995–1996, VII, 104–19; Lemay 1999, I, 376–80; *CBCM*, III, 286–87; M.-T. d’Alverny, C. Burnett, E. Poulle, *Raymond de Marseille: Opera omnia*, I: *Traité de l’Astrolabe, Liber cursuum planetarum*, Paris, 2009, 43–45; Nothaft 2018, 174; Georges (forthcoming).

74r–271r ‘Prologus in Almagesto Ptolomey [title in upper margin]. Prologus in Almagesto Ptolomei [title in upper left corner]. Incipit Almagestum Ptolomei [title in upper right corner]. Quidam princeps nomine Albugaue in libro suo quem scientiarum electionem per verborum nominavit... (74v) Bonum scire fuit quod sapientibus non deviantibus visum est — abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Expleta est dictio XIIIa libri Ptolomei et cum ea completur liber Almagesti de disciplinalibus. Laus Deo. Amen.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 74r–74v; Book I, 74v–88r; II, 88r–[106v]; III, [106v]–116v; IV, 116v–132v; V, 132v–149r; VI, 149v–164v; VII, 165r–179v; VIII, 179v–191v; IX, 191v–209r; X, 209r–221v; XI, 221v–239v; XII, 239v–254r; XIII, 254r–271r. A few marginal notes by the scribe. F. 106 is missing.

271r–274r ‘Incipit Centilogium Ptolomei. Scientia astrorum ex te et illis. Et non oportet peritum illorum iudicare secundum formam — et si non ambulaverit, rebellis est de eodem climate.’

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**, in ‘Mundanorum 1’ only (without the commentary). No glosses.

274r–274v ‘Dixit Pthol<omeu>s: Si aspexerit significator ascendens erit genus rei occulte — sapientes astrologorum a ceteris minus doctis in hac arte.’

= **Pseudo-Ptolemy, *De occultatis* (B.7)**. No glosses.

311r–343v ‘Incipit prologus in Quadripartitum Ptholomei. Prolixitas exosa latinitas artium principia prescriptione quadam insignire solita est... (311v) Ex stellarum habitudine prescientie perfectum consecuta iezarii — in prosperitatem pro dispositorum qualitate inveniet. Quoniam ergo iuxta propositum nos rerum in astrorum iudicia materiam universalem tradidimus, congruum est ut huic tractatui nostro finem imponamus. Perfecta est libri translatio 29 die Augusti anno domini 1206 et 23 die Almihata<n> anno Arabum 603, et Deus melius novit. Explicit Quadripartitum Ptholomei LX capitula continens per totum.’

= **Ptolemy, *Quadripartitum*, tr. 1206 (A.2.3)**. Translator’s preface, 311r–311v; Book I, 311v–320r; II, 320v–328v; III, 328v–338r; IV, 338r–343v. A few marginal notes by the scribe.

Parma, Biblioteca Palatina, 984

s. XV. **Or.:** probably northern Italy. **Prov.:** 'D<omini> Ioannis Gregorii filii ...ur (?) Ioannis Antonii Leverati (?) Genuensis [Genoa]' (f. 1r, 16th-c. hand); 'Clarissimo arcium et medicinae doctori d<omino> m<agistro> Iohanni ex Rubeis maiori suo observan<dissimo>'. Genuae [Genoa]' (f. 144v, late-15th or 16th-c. hand). A Johannes de Rubeis of Parma was physician to Jean sans Peur, duke of Burgundy, and author of annual prognostications, two of which are extant for the years 1420 and 1421, but the note is probably too late to apply to him.

Paper, 145 f., two hands (f. 1–130 and 134v–144r), with additions by a somewhat later hand f. 144v–145r.

Astronomy: Campanus of Novara, *Theorica planetarum* (1r–44v); Pseudo-Thebit Bencora, *De motu octave spere* (47r–49v); **Ptolemaica** (50r–52r); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (52v–53v); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (54r–55v); Thebit Bencora, *De imaginibus*, beginning only, with text crossed out (55v–56r); Blasius of Parma, comm. on Sacrobosco's *De sphaera* (56r–81v); Cecco d'Ascoli, *De eccentricis et epicyclis* (82r–85r); 'Super theoricis planetarum aliquas demonstrationes...' (87r–103v); **Ptolemaica** (106r–115r); Pseudo-Messahallah, *De compositione astrolabii* (115r–130v); 'Sic Leonardus Cremonensis prosequitur descriptionem cosmographie in plano. Terreni situs habitabilis partes describentium Ptolomeus...' (134v–144r); astrological notes (145r). Blank: 45r–46v (except for an incomplete astronomical diagram f. 46r), 85v–86v, 104–105, 131r–134r, 144v, 145v.

Bibl. F. Odorici, *La Nazionale Biblioteca di Parma*, Torino, 1873, 38 (not seen); A. Favaro, 'Nuove ricerche sul matematico Leonardo Cremonese', *Bibliotheca Mathematica*, Dritte Folge 5 (1904), 326–41: 327–28; Benjamin/Toomer 1971, 81–82; Kristeller 1963–1992, II, 42 and 554.

50r–52r 'Incipit liber quem edidit Thebit filius Chore de his que indigent expositione antequam legatur Almagesti. <E>quator diei est circulus maior qui describitur super duos polo (!) orbis — aut propinqui oppositioni erunt retrogradi. Finis.' = **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

106r–115r 'De utilitate astrolabii liber nonus [title added in upper margin by another hand]. <Q>uemadmodum Ptholomeus et ante eum nonnulli veteris auctoritatis viri antiquas scribunt hystorias... (106v) Sit possibile, Iesure, et plerumque necessarium ut in plano represententur circuli in speram corpoream incidentes — (114r) cum ipsis circulis tropicis et cum circulis meridianis signa distinguuntibus. <C>apitulum quod non est de libro quod edidit Abualcatim Maslem filius Ameti. Dixit Maslem filius Ameti: Iam rememoratus est Ptolomeus in hoc libro — tibi quod volueris de scientia tabularum. Finis. Laus Deo.' = **Ptolemy, *Planisphaerium*, tr. Hermann of Carinthia (A.6.1),** Class II. Translator's preface, 106r–106v; text, 106v–114r; Maslama's Extra Chapter, 114r–115r. No glosses. This MS is wrongly referred to as 'Parma 954, 15c, ff. 106r–155r' in Kunitzsch/Lorch 1994, 35.

Perugia, Biblioteca Comunale Augusta, A. 23

s. XVII.

Paper, 170 f., several hands, one of which copied f. 45–68.

Natural philosophy, astrology and logic: comm. on Aristotle's *De anima* (1r–42v); ***Ptolemaica*** (45r–68v); *De diebus criticis* (72r–78r); 'Logicae prolegomena. Explanatum nobis omnino consuetum...' (79r–85r); 'In Prophirii seu universalia breves commentarii' (85v–96r); 'In librum predicamentorum Aristotelis breves commentarii' (96r–108v); 'Commentarii in secundum librum Aristotelis de posteriori analysi seu resolutione' (110r–169v). Blank: 43–44, 69–71, 78v, 109, 170.

Bibl. Mazzatinti 1892–1926, V, 66 (no. 23).

45r–68v 'Claudii Ptholomaei mathematici operis de iudiciis astrologicis libri quatuor. Liber primus. Praefatio. Duo sunt, Syre, per quae predictiones astrologicae extruuntur, praecipua et maxima. Unum, quod primum ordine est... Hoc est proëmium presenti operis, in quo, quae in — ad terram ceteros ...at (?) planetas.'
 = **⟨Commentum in Quadripartitum (II)⟩** (C.2.41). No glosses.

Perugia, Biblioteca Comunale Augusta, 1004 (M. 27)s. XV². **Or.:** Italy. **Prov.:** 'Marabottini' (f. 1r).

Paper, 78 f., a single neat hand.

Ptolemaica (single text). Blank: 78r.**Bibl.** Mazzatinti 1892–1926, V, 225–26.

1r–77r 'Tractatus primus de arismetricha (*corr. in arithmetica*) per Iohannem de Blanchinis. Liber primus. Incipit prohemium. <A>rsmetrica (*corr. in arithmetica*) dico quod determinatur per numeros, et duas noto diffinitiones numerorum — et si excesserit minuta 50 erit grisia cum albedine.'
 = **Giovanni Bianchini, *Flores Almagesti* (C.1.17)**. I, 1r–8r; II, 8v–12r; III, 12v–18r; IV, 18v–21r; V, 21v–33v; VI, 34r–45v; VII, 45v–63r; VIII, 63r–68r; IX, 68r–74r; X, 74r–77r. Marginal notes by the scribe and by at least two other hands. One of these glossators added two notes on f. 77v ('De eclypsi Lune narratio cap. 22. Cum (?) eclypsi Lune breviter dicendum est quod ad ipsam perscrutandum...') and 78v ('Sinus secundus est medietas corde...').

Philadelphia, University of Pennsylvania – Kislak Center for Special Collections, Rare Books and Manuscripts, Ms. Codex 826 (*olim* Lat. 3)

s. XIII^{med} (Faye/Bond, date confirmed by Stefan Georges (private communication); c. 1300 acc. Zacour/Hirsch). **Or.:** England (probably Oxford) or France (probably Paris) acc. Stefan Georges (France acc. Faye/Bond, ‘Spain (?)’ acc. Zacour/Hirsch). **Prov.:** the *Liber super Almagesti* is glossed by the same English (?) hand that glossed the *Almagest* and added sections in MS → Venice, BNM, lat. VIII.10; Antonio Cánovas del Castillo (1828–1897), cf. ex-libris on inner front cover.

Parchment, II + 63 + I^a f., a single hand (several hands acc. Faye/Bond and Zacour/Hirsch).

Ptolemaica (single text), expect for mathematical notes and diagrams in the hand of the glossator (IIv). Blank: Ir–IIr (except for ‘Geber de astronomia et motibus stellarum’ in a medieval hand, possibly that of the glossator, f. IIr), I^a.

Bibl. C. U. Faye, W. H. Bond, *Supplement to the Census of Medieval and Renaissance Manuscripts in the United States and Canada*, New York, 1962, 486 (‘Lat. 3’); N. P. Zacour, R. Hirsch, *Catalogue of Manuscripts in the Libraries of the University of Pennsylvania*, Philadelphia, 1965, 2 (‘Lat. 3’).

1r–63v ‘Incipit liber Geber. Scientia species habet quarum melior post scientiam — inter duas lineas BE et GE in duo media secundum quod est in figura.’
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1r–1v; I, 1v–7r; II, 7r–14v; III, 15r–18r; IV, 18r–25r; V, 25r–36r; VI, 36r–55v; VII, 55v–63v (abrupt end in the middle of the page close to the end of Book VII). Substantial glosses by a contemporary or somewhat later hand (see Prov.).

Pisa, Biblioteca Universitaria, 232 [Plate 32]

s. XVI^{ex} (probably in or around 1583 for the Ptolemaic section; 1585 for f. 120–202). **Or.:** collected papers of Giulio Angeli da Barga (Julius Angelius Bargaeus).

Paper, 372 f., several hands, one of which (probably Giulio Angeli’s) copied f. 2r, 52v–107 and 125v–370. This is vol. II of Giulio Angeli’s collected papers (cf. spine: ‘Julii Angelii Bargaei Operum Tomus II’), vols I and III–IV being now MSS 231 and 233–34 respectively.

Giulio Angeli da Barga’s works, drafts and notes of astronomy, mathematics, logic and astrology: Giulio Angeli da Barga, *De anni et dierum fastorum emendatione*, addressed to Francesco I de’ Medici (2r–50v), with note (51r); ‘Si aequinoctia in diebus certis...’ (52v–70v); ‘Quod spectat ad intentionem facultatis huius mathematicae scire...’ (75r–107r); notes on astronomical instruments, in Italian (108r–115v); Giulio Angeli da Barga, *De arte logica universum*, addressed to ‘Ioanni Mediceo’ and dated Pisa 1585 (120r–202v); ‘Memor animo sepe revolventi qui fieret...’ (204v–291v); **Ptolemaica (296v–370r)**. Blank: 1, 2v–3v, 51v–52r, 71–74, 107v, 116–119, 123v–125r, 203r–204r, 292r–296r, 370v–372v.

Bibl. Mazzatinti 1892–1926, XXIV, 24; Kristeller 1963–1992, VI, 143.

- 296v–370r ‘Τῆς τοῦ πτολεμαίου τετραβίβλου συντάξεως ἐκθεσις πινακική. (298r) Primum ordine et potestate est id quo deprehendimus, quomodocumque factas motuum figurationes — Mathematico recta coniectura coniungante et causam ex contemperatione. Finis. Θεῶ δόξα.’
= **Giulio Angeli da Barga**, (*Tabulata expositio in Quadripartitum*) (C.2.35). F. 297 is an inserted sheet of smaller size containing the horoscope of the New Moon of 9 June 1583 for latitude 44°. Corrections by the scribe.

Pisa, Biblioteca Universitaria, 386

s. XVII² (after 1673). **Or.:** the MS was in all likelihood copied under Alessandro Marchetti's supervision in Pisa and the commentary (f. 98r–99v) is perhaps in his hand.

Paper, 99 f. (new foliotation at the bottom left corner of the recto pages; the MS was originally paginated in the upper right corner), two hands (f. 1r–97r and 98r–99v). One or several folia are missing at the end.

Ptolemaica (1r–97r and 98r–99v). Blank: 97v.

Bibl. Mazzatinti 1892–1926, XXIV, 32.

- 1r–97r ‘Magnae constructionis Claudii Ptolomei liber primus cum commentariis Theonis Alexandrini a Georgio Fleming Hiberno ex Graeco idiomate in Latinam linguam conversus et ab Alexandro Marchetti Pisis phylosophiae professore ordinario accuratissime emendatus, cui accesserunt etiam eiusdem Alexandri Marchetti breviores quaedam animadversiones in Theonis commentarium. Proemium. Qui exacte philosophati sunt (o Syre) optime mihi videntur speculativam philosophiae partem a practica — pertransibunt meridianum ubique et in recta sphaera horizontem. Commentariorum Theonis Alexandrini in Magnam constructionem C<laudii> Ptolomei libri primi finis. Laus Deo.’
= **Theon of Alexandria**, (*Commentum in Almagesti*), tr. **George Fleming and Alessandro Marchetti (C.1.30.9)**, Book I. No glosses and no corrections, except for occasional words or passages which have been crossed out (e.g. f. 23v, 31v, 32r, 51r, 51v, 58v).
- 98r–99v ‘Alexandri Marchetti notae seu totius breves animadversiones commentarium Theonis Alexandrini in librum primum Magnae constructionis Claudii Ptolomei. Pag. 49. Conatur Theo Alex<andrinus> demonstrare quod si supra circulum et eius diametri quadratum — numeri qui reperiuntur in tabula Pythagorica, qu...’
= **Alessandro Marchetti**, *Notae seu totius breves animadversiones in commentarium Theonis Alexandrini in librum primum Magnae constructionis Claudii Ptolomei (C.1.36)*, abrupt end due to missing folia. No glosses.

Pommersfelden, Gräflich Schönbornsche Bibliothek, 60 (2633)

s. XII^{ex}–XIIIⁱⁿ. **Or.:** Iberian Peninsula (Stefan Georges, private communication).

Parchment, 187 f., a single neat hand, painted initials f. 1r, 62r, 74v, 110r and 138v, decorated initials throughout. Several folia are missing between f. 141 and 142.

Astrology and astronomy: **Ptolemaica (1r–138r)**; Hermann of Reichenau, *De mensura astrolabii*, end gone (138v–141v); Alcabitus, *Introductorius*, III.8-end, beginning gone (142r–164v); Albumasar, *Flores* (166r–187v). Blank: 165.

Bibl. Zinner 1964, 8; *Graf von Schoenborn Schlossbibliothek Pommersfelden: Katalog der Handschriften*, I (unpublished catalogue dated 1995, available at the Staatsbibliothek in Bamberg).

1r–138r ‘Dixit Ptolomeus: Rerum, Iessuri, in quibus est pronosticabilis sciencie stellarum perfectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro, Deo volente, finem inponere non incongruum existimamus, in quo res constituuntur et destruuntur. Explicit liber IIII Ptholomei in iudicandi discretionem per stellas de futuris in hoc mundo constitutionis et destructionis contingentibus. Et perfecta est eius translatio de Arabico in Latinum die Veneris, hora tertia, die XX^a Octobris, anno domini MCXXXVIII, XV die mensis Saphar, anno Arabum DXXXIII. Et Deus nos custodiat et actus nostros dirigat. Amen.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 1r–30r; II, 30r–62r; III, 62r–110r; IV, 110r–138r. Substantial glosses by a contemporary or somewhat later hand, some of which introduced by ‘Sensus huius littere’, ‘Dicit Haly’ and ‘In alio’. Glosses by another, late medieval hand. The text includes explanations or paraphrases copied in red ink and often introduced by ‘scilicet’.

138r ‘<C>um proiectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate.’

= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6)**.

Text added immediately after the explicit of the preceding text by the main glossator of that text. Glosses in the same hand.

Pommersfelden, Gräflich Schönbornsche Bibliothek, 66 (2640)

s. XIII^I (f. 34–114), XIII^{ex} (glosses and additions f. 34r–35r and 51rb–51vb, probably in the same hand that left notes for 1292, 1297 and 1298 in the margins of the almanac f. 84r–103v, see Note below) and XIVⁱⁿ (f. 1–33). **Or.:** England (cf. f. 104r: ascension table ‘Britanie australissimorum’ for latitude 51°30’, which is congruent with a 13th-c. gloss giving the longitudes of Toledo and Winchester on f. 65v — this gloss is followed by two other glosses, in other 13th-c hands, giving the longitude of Amiens and the latitude of Toledo, Rome, Montpellier, Paris, Arras and London). **Prov.:** Amplonius Rating de Berga (c. 1365–1435) [Math. 41]; Erfurt, Collegium Porta Coeli, in 1412.

Parchment, 114 f. Composite MS made of two parts: I. f. 1–33 (a single neat hand); II. f. 34–114 (several hands, with glosses and additions by several hands). The second part is missing a section at the beginning, as suggested by the abrupt beginning of the first Ptolemaic section (f. 34r).

Astrology and astronomy: Alcabitus, *Introductorius* (1ra–23vb); two chapters: ‘De Capite et Cauda. Cum fuerit Luna cum Capite vel Cauda in uno signo est dies cavenda in omnibus operibus...’ (23vb–24ra) and ‘Quomodo queritur ilig. Et mos est philosophorum (?) in nativitate atque universali interrogatione...’ (24ra–24rb); canons of Toledan tables (24rb–33r); added astronomical note and table of contents of f. 1–33 (33v); Ibn al-Šaffār, *De opere astrolabii*, tr. John of Seville (34ra–47rb); **Ptolemaica** (34r–35r, 51rb–51vb), added in the margins and blank spaces; **Ptolemaica** (47va–51rb); canons of Toledan tables (52ra–84ra); planetary almanac, incomplete (84r–103v), including **Ptolemaica** (84ra); ascension table ‘Britanie australissimorum’ for latitude 51°30’ (104r); added notes by several hands (104va–105v), including chronology from Creation (104va), a horoscope for the lunar eclipse of 25 March ‘annis Arabum 582’ [1186] (104va), *lunarium* ‘Quisquis prima die cuiusque mensis in infirmitate deciderit...’ (104vb), **Ptolemaica** (105r) and *Epistola Argafalau ad Alexandrum*, chs 2.3–23 (105r–105v); astrolabe ‘Astrologie speculationis exercitium habere volentibus...’ (106ra–109rb); Pseudo-Messahallah, *De compositione astrolabii*, second part on uses (109rb–113va); added notes of medicine (114ra–114vc). The second part (f. 34–114) is heavily glossed by several hands, mainly from the 13th c., three of which copied the three Ptolemaic sections on f. 34r–35r + 51rb–51vb, 84r and 105r respectively.

Note The planetary almanac (f. 84r–103v) was used by several 13th- and 14th-c. astrologers, who left notes and calculations for 1189/90 or ‘anno Arabum 585/6’ (f. 86r, 90r, 95r, 95v, 99v, 102v), 1254 (f. 84v, 87v, 88r, 94r, 102r, 102v, 103r), 1292 (f. 84v), 1297 (f. 87r, 91r), 1298 (f. 95v), 1306 (f. 84v, 85r, 88r, 100v) and 1333 (f. 94r).

Bibl. E. Zinner, ‘Die Pommersfelder Handschrift 66’, *Bericht der Naturforschenden Gesellschaft Bamberg* 32 (1950), 50–55; Zinner 1964, 9; *Graf von Schoenborn Schlossbibliothek Pommersfelden: Katalog der Handschriften*, I (unpublished catalogue dated 1995, available at the Staatsbibliothek in Bamberg); Pedersen 2002, I, 170–71.

34r–35r, 51rb–51vb ‘... in primo gradu Capricorni eratque gradus ille decime et duravit per 3 horas... Directio. Directio yles cum fuerit in medio celi in unaquaque regione... Partes non habent circulos quia non sunt nici gradus circuli signorum... (51rb) De Centilo<qui>o 49 c<apitulu>m. Non obliviscaris. Non contempnas aspicere 120 coniunctiones que inter planetas fuerint — in gradum medii celi, vel de medio celi in ascendens.’

= Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3), v. 24–77, opening mid-sentence towards the end of the commentary of v. 24. Only the version ‘Mundanorum 2’ is given. V. 50 is wrongly numbered 49 and no other *verbum* is numbered. This section has been copied in the margins of f. 34r–35r (v. 24–49) and on f. 51rb–51vb (v. 50–77), originally blank.

- 47va–51rb ‘<E>quator est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi’ (added by a later hand: ‘Explicit Hyspalen<sis>’).
= **Thebit Bencora**, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). Two marginal corrections by a later hand f. 48v and 50v.
- 84ra ‘51. Motus (!) Lune in nat<ivitate> est ipse gradus ascendens de circulo hora casus spermatidis et locus Lune hora casus spermatidis est gradus ascendens hora nativitatis.’
= **Abuifaf Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli** (C.3.1.1), v. 51 (proposition only). This section was added on the first page of the planetary almanac by a 13th-c. hand, after which another 13th-c. hand added a paraphrase: ‘Quando sperma cadit, gradus ascendens, gradus ille lunaris locus, est nascentis ipse fetus; qui Luna gradus est in tempore spermatidis, ille est gradus ascendens (!), nasceris tempore fetus (?)’.
- 105r ‘Ut scias quid sit illud quod aliquis qui ad te interrogandi venit fere in ma<nu> aut gerit corde absconditur, diligenter prospice oriens signum. Et si Mars ibi fuerit defert rem rubeam aut que mittitur in ignem — quod si aliquis ibi non fuerit dominum hore prospicias.’
= **Pseudo-Ptolemy**, *Iudicia* (B.3), excerpt (one chapter of 10 lines). No glosses (the text copied in the lower margin is part of longer note or gloss dealing with medicine f. 104v–105v).

Pommersfelden, Gräflich Schönbornsche Bibliothek, 129 (2689)

s. XIV².

Parchment, 96 f., MS made of three parts, I: f. 1–14, a single neat hand, reserved initials; II: f. 15–64; III: f. 65–96.

Astronomy, astrology and natural philosophy: **Ptolemaica** (1ra–2va and 2va–8ra); Franco de Polonia, *Tractatus de turketo* (8ra–9ra); ‘Investigantibus chilindri dispositionem qui dicitur horologium viatorum...’ (9ra–9vb); Peter Peregrinus of Maricourt, *De magnete* (9vb–11va); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (11vb–14vb); Aristotle, *Metaphysica*, tr. William of Moerbeke (15ra–58rb); *Liber de causis* (58rb–63vb); Theodoricus de Freiberg, *De iride et de radialibus impressionibus* (65ra–88va); Augustinus Triumphus of Ancona, *Tractatus de cognitione anime et potentiarum eius* (88va–96vb). Blank: 64.

Bibl. *ALC*, I.2a, 117 (no. 2113); Zinner 1964, 10; Kristeller 1963–1992, III, 687; L. Sturlese, *Dokumente und Forschungen zu Leben und Werk Dietrichs von Freiberg*, Hamburg, 1984, 109–13; *Graf von Schoenborn Schlossbibliothek Pommersfelden: Katalog der Handschriften*, I (unpublished catalogue dated 1995, available at the Staatsbibliothek in Bamberg); Lemay 1999, I, 270.

- 1ra–8ra ‘<S>ientia Scientia astrorum est excellentis et utilis. Et non oportet peritum illorum iudicare secundum formam effectuum particularium — (2va) et si non

ambulaverit rebellis est de eodem climate. Explicit. Amen. <M>undanorum ad hoc et ad aliud mutatio est corporum celestium... Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit, ex te et illis, significat quod res futuras prenoscere desiderat — quanto melius quivimus exposuimus. Explicit Centilogium Ptolomei cum commento super eundem.'

= **Abuifar Hamet filius Joseph**, *Commentum in Centiloquium*, 'Mundanorum' version (C.3.1.3), 'Mundanorum 1', 1ra–2va, and 'Mundanorum 2', 2va–8ra. No glosses.

Prague, Archiv Pražského Hradu (olim Knihovna Metropolitní Kapituly), L. XLVIII (1292)

s. XVⁱⁿ (1410, cf. f. 58ra: 'Explicit algorismus minuciarum anno domini millesimo 4^o 10 finitus'). **Or.:** probably copied at the University of Prague and perhaps by Johannes Andree Schindel.

Paper, I + 130 + I^a f., a single hand. Several folia might be missing between f. 59–60, 71–72 and 114–115.

Astronomy, geometry, astrology and natural philosophy: Richard of Wallingford, *Tractatus Albionis* (1ra–33vb); Dominicus de Clavasio, *Practica geometrie* (35ra–52vb); John of Ligneris, *Algorismus de minutiis* (52vb–58ra); added notes of geometry and astronomy by two hands (58ra–58rb); star table for Magdeburg (58v); **Ptolemaica (60r–69v)**; 'Alique propositiones de corporibus curvibus a reverendo magistro Ortolfo Parysiensi compilate. Si in spera aliqua recta...' (69v–71v); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, VI.12.2–VII (72ra–114ra); added note 'Cum volueris (?) proicere radios alicuius planete...' (114vb); natural philosophy 'Utrum corporeum ex forma...' (115ra–129rb), with additional notes on the same subject (129rb–130vb). Blank: 34, 59. F. I and I^a contain a fragment of a text dealing with some legal matter in Přebyslav (Bohemia) in the beginning of the 15th c.

Bibl. A. Podlaha, *Soupis Rukopisů Knihovny Metropolitní Kapitoly Pražské*, II, Praha, 1922, 227–28.

60r–69v 'Sint AB et AG note. Essent quoque per secundum corrolarium — sicque patet correlarium. Explicit Almagesti Ptolomey abbreviatum Bernhardi Chorner quondam Iacobi de Tyrnavia.'

= **Bernhardus Chorner**, *Almagesti Ptolomei abbreviatum* (C.1.12). The beginning (up to I.3) is missing due to the loss of one folio. No glosses.

Prague, Archiv Pražského Hradu (olim Knihovna Metropolitní Kapituly), O. I (1585) [Plate 11]

s. XVⁱⁿ (most of the volume appears to have been copied between 1411 and 1415, with brief additions dated 1420, 1431, 1449, 1452 and 1454). **Or.:** personal notebook of Johannes Borotin, copied in Prague (Zderaz, given in the colophon of the first Ptolemaic section f. 129r, is near Prague), cf. f. 66r: '1452 incepti legere Alkabicium [not "astrolabium"!]¹ feria

3 ante Ascensionem domini, ego m<agister> Io<hannes> Bo<rotyn>...'; 114r: 'Continuatio expositionum canonum tabularum m<agistri> Io<hannis> de Borot<yn>...'; f. 129r: 'Me Borotyn scripsit in Zderaz'; f. 129v: '1449 pro theorica planetarum quam legere tunc incepti, hec sunt scripta...'; f. 130r: 'Anno domini 1454 preambulum super lectionem Alkabicii quem legit magister Ioh<annes> Borot<yn> et incepit feria 3^a ante diem sancte Sofie est hoc...'; f. 165v: 'Ego qui pro ordinario meo durum opus mathematice scientie mihi preripui...'; f. 222v: '1420 circa lectionem Metheorum m<agistri> I<ohannis> B<orotyn>...'

Paper, 227 f., two or several alternating hands working in close collaboration.

Natural philosophy, astronomy, astrology and mathematics: Algazel [al-Ghazālī], *Summa theorie philosophie*, V (1r–5r); note on the ninth sphere (5v); notes on dreams from various authors, including Augustine and Jerome (5v–11v); comm. on Aristotle's *De somniis* (12r–36r); beginning of a text on the uses of the astrolabe by 'C.' [Cristannus de Prachaticz?] 'Quia iuxta intencionis mee...', dated 1411 (37r–37v); introduction to astronomy 'Quia propositi...' (38r–39r); 'Incipit tractatus spere materialis. Quia iste liber spere materialis est introductorius ad scientiam astronomicam...', dated 1411 (39v–45v); comm. on the *Theorica planetarum Gerardi* (46r–47v and 49r–65r); John of Murs, *Arithmetica speculativa*, beginning only (48r–48v), with an added note about the apogee of the Sun in 1411 f. 48v; Johannes Borotin, lectures on Alcabitius's *Introductorius*, introduction dated 1452 (65v–66r); Johannes Borotin (?), lectures on Alcabitius's *Introductorius*, dated 1413 (72r–89v, introductory lecture ed. Burnett, 27–38); Johannes Borotin, comm. on the canons of the Alfonsine tables, dated 1414–1415 (90r–106v and 114r–115v); **Ptolemaica (120r–129r)**; Johannes Borotin, lectures on *Theorica planetarum*, introduction dated 1449 (129v–130r); Johannes Borotin, lectures on Alcabitius's *Introductorius*, introduction dated 1454 (130r–130v, ed. Burnett, 26–27); **Ptolemaica (138r–161v)**; comm. on Aristotle's *Ethics* (162r–164v); Johannes Borotin, lectures on Euclid's *Elementa* (165v–178r); Johannes Borotin (?), lectures on Alfraganus's *De scientia astrorum*, dated 1414 (181v–222r); Johannes Borotin, notes concerning a lecture on Aristotle's *Meteorologica*, dated 1420 (222v); notes on the lunar (!) eclipse of August 1431 (223v–224r). Blank: 36v, 66v–71r, 71v (except added note), 82r–83v, 107–113, 116–19, 131–137, 165r, 178v–181r, 223r, 224v–227.

Bibl. A. Podlaha, *Soupis Rukopisů Knihovny Metropolitní Kapitoly Pražské*, II, Praha, 1922, 452–53; d'Alverny 1994, 336; C. Burnett, 'Teaching the Science of the Stars in Prague University in the Early Fifteenth Century: Master Johannes Borotin', *Aithēr. Journal for the Study of Greek and Latin Philosophical Traditions* 2 (2014), 9–50: 11–15; L. Lička, 'Studying and Discussing Optics at the Prague Faculty of Arts: Optical Topics and Authorities in Prague Quodlibets and John of Borotín's *Quaestio* on Extramission', in *Studying the Arts in Late Medieval Bohemia: Production, Reception and Transmission of Knowledge*, ed. O. Pavlíček, Turnhout, 2021, 251–303: 269–71.

120r–129r 'Expositio Thebiti Bencorath in precognicionibus Almagesti. Nota: Equator diei idem est quod equinoctialis circulus — tempore Sol redit ad suam (?) coniunccionem. De istis melius videbis circa theoricam planetarum et (?) practicabis si vis. Explicit expositio Thebit precognicionum Almagesti anno

domini 1412, feria prima sive die dominico 12^o kal. Decembris. Eodem die magister Ioannes Andree, doctor medicine, incepit legere librum magnum Ptolomei Almagesti in Praga. Mitte, mi domine, auxilium de sancto et de Syon, tuere me ut perficere possim quod proposui, quia volo. Me Borotyn scripsit in Zderaz dum sibi vixit anno milleno quadringento duodeno, quo iam complebat quatuor triginta Decembres.'

= **Johannes Borotin (?)**, *Expositio Thebiti Bencorath in precognicionibus Almagesti* (C.1.13). A few marginal notes by the scribe (Johannes Borotin).

138r–161v

'Et postquam premisimus hoc capitulum etc. In hoc capitulo vult Ptolomeus docere... (141r) Incipit secundi libri Almagesti Ptolomei — Ex eo autem ibi est 15^a demonstratio et est quasi conversa precedentis.'

= **Johannes Andree Schindel**, *Lectiones in Almagesti* (C.1.14), selection from I.13, f. 138r–138v (dated 28 January 1413 in the upper margin of f. 138r: '1413 5^o kal. Februarii'); I.14, f. 139v–141r; II.1, 141r–142r; II.5–6, 144v–146v (dated 28 February 1413 on f. 146r, at the end of II.5: '1413 in dominica Exurge'); II.7, 147r–148r; I.9, 150r–160r; I.12, 161r–161v. A few marginal notes by the scribe, more important on f. 151r–151v. F. 139r, 142v–144r, 147r, 148v–149v, 152v–153r, 157r–157v, 158v–159v and 160v are blank, and several other pages are partly blank.

Prague, Národní knihovna České republiky, I.G.6 (280)

s. XV² (f. 120r–170r and 198v–199v were copied in 1488, see below; almanach for 1491 f. 233r–236v; other sections are older or based on older material, cf. e.g. the prognostication for 1455 f. 106r–109v, and several references to the years 1440s and even to the 14th c. in the computus and astronomical sections. **Or.:** some sections were copied by Crux of Telč (d. 1504), at least partly at the monastery of Tržebň in Bohemia, cf. f. 170r: 'Explicit almanach perpetuum septem planetarum per me fratrem Crucem de Telcz professum in Trzebon sub abbate domino Marco anno 1488 in vigilia sancti Iohannis Baptiste, eodem tempore Agnes virgo dominorum de Rosib. infirmabatur... et post tertio die in meridie defuncta est...', and f. 199v: 'Expliciunt excerpta cum tabulis de compoto Iudaico, finita per me Crucem de Telcz, feria post Lamberti in Witignaro (?) anno domini 1488, Marco abbate'; astronomical tables for Prague f. 104v and 223v–227r; f. 45r–53r are copied 'per me Stephanum de Scheibs' (f. 53r). **Prov.:** the MS belonged to Petr Vok of Rosenberg [Rožmberk] in 1609 (cf. ex-libris f. 309r: 'Ex bibliotheca illustrissimi principis domini domini Petri Vok, Ursini domini domus a Rosenberg ultimi et senioris et e primatibus Bohemorum celsissimi et antiquis anno Christi 1609') and it is likely that it had been the property of the Rosenberg family for a long time, for the prognostication for 1455 (f. 106r–109v) is addressed to Ulrich II of Rosenberg (d. 1462), and Crux of Telč reports, in his colophon of 1488 f. 170r (see above), that Agnes of Rosenberg fell sick and died. On Crux of Telč and his MSS, see L. Doležalová, 'Personal Multiple-Text Manuscripts in Late Medieval Central Europe: The "Library" of Crux of Telč (1434–1504)', in *The Emergence of Multiple-Text Manuscripts*, eds A. Bausi, M. Friedrich, M. Maniaci, Berlin, 2019, 145–70.

Paper, 313 f., several hands, one of which copied f. 115v–117v.

Computus, astronomy and astrology in a collection of rare or unidentified texts, excerpts and notes often difficult to collate: Johannes de Polonia, *Computus manualis metricus* 'Est duplex ciclus lunaris...' (1r–2v); 'Compotus est scientia ostendens tempora ex Solis et Lune motibus... Explicit compotus philosophicus' (3r–23v); Johannes de Erfordia, *Computus chirometralis* (24r–32r); 'Casus papales et episcopales. Carmina sunt quedam que scripta...' (32v); Alexander of Villedieu, *Massa compoti*, with comm. (33r–44v); John of Gmunden, *Tractatus de compositione chilindri* (45r–53r); astronomical tables (53v–58v); computus 'Incipiunt regule seu improprie canones figure que dicitur pheffircuthe...' (59r–64v); tables and notes of computus and astrology (65r–67v); *Computus orbicularis* 'Cum superiorum motus a quo omnia...' (68r–81v); *Theorica planetarum Gerardi* (82r–89v); chronology 'Differentia Ade et Diluvii...' (90r–91r); planetary tables (91v–97v); 'In firmamento celi sunt Sol et Luna et dividunt diem et noctem...' (98r–101v); astrology 'Ptolomeus in Almagesti Vir sapiens dominabitur astris et potest declarari...' (102r–102v); star table (103r); table: geographical coordinates of cities (103v); diagram and notes of cosmology (104r); astronomical table for Prague (104v); tables and notes of computus (105r–105v); Martinus de Lancicia, prognostication for 1455 (106r–109v); astronomical calendar (110r–114v); table: *De flebotomia secundum cursum Lune per XII signa* (115r); astrological and astronomical chapters copied horizontally (115v–117v), including **Ptolemaica** (115v–116r), 'De diversis effectibus planetarum...' (116r–116v) and *Alehandreana* 'Si vis scire in quo signo sit Mars, sume annos ab initio mundi...' (116v–117v); figure of celestial spheres, with ten spheres beyond Saturn (118r); astrological tables (118v–119v); Prophatius Judeus, *Almanach*, tables (120r–170r); 'Pro meliori ac faciliiori intellectu hic positorum...' (170v–175r); astronomical calendar (175v–183v); tables and notes of computus and astrology (184r–188v); astronomical tables with canons 'In nomine domini Ihesu Christi, amen. Quoniam multa dicta traduntur a diversis...' (188v–193r); tables, diagrams and notes of computus and astrology (193v–210v); *Astronomia Ypocratis* (211r–217v); 'De minutione. De farmaciis. Sublimis Deus non solum in...' (218r–222v); astronomical tables (223r–239v), including ascension tables for Prague (223v–224r), a planetary almanach for 1491 (233r–236v) and ascension tables for latitude 50° (237r–239v); canons of astronomical tables (240r–243r); Perscrutator, *De impressionibus aeris*, excerpts (244r–246v); astrometeorology 'Diversitas aeris in temporibus caloris et frigoris scitur...' (247r–256v); added notes of astrometeorology (257r–257v), including the beginning of Alkindi (?), *Saturnus in Ariete sub radiis...* (257v); Robert Grosseteste (?), *De impressionibus aeris* (258r–260r); 'De mutatione aeris particulari considera ascendens in coniunctione Solis et Lune...' (260r–260v); 'Cum velis segetum prenoscere eventum in singulis annis...' (260v–261v); Albumasar, *Flores*, last chapter (261v–269r); 'Galaxia est circulus celestis ceteris pulchrior incedens per medium celi...' (270r–278r); table: elections from the aspects of the Moon with the other planets (278v); astronomical tables, in Czech (279r–280r); table: *De flebotomia secundum cursum Lune per XII signa* (280v); calendar, with notes about Bohemia (281r–283v); empty tables (284r–284v); astrology 'In nomine Ihesu. Zodiacus est circulus signorum et ille dividitur in 12 partes equales...' (285r–294r); table of conjunctions Mars-Saturn and Mars-Jupiter 1381–1398 (295r); table of lunar mansions (296v); astronomical tables (297r–308v). Blank: 97^{bis}–97^{quater}, 243v, 246^{bis}v, 258v, 269v, 294v, 295v–296r (except note f. 296r), 309–13 (except ex-libris f. 309r).

Bibl. J. Truhlář, *Catalogus codicum manu scriptorum qui in C. R. Bibliotheca Publica atque Universitatis Pragensis asservantur*, I, Praha, 1905, 117–19; Markowski 1990, 318.

115v–116r ‘Canon Ptolomei et Pytagore de diversis eventibus secundum naturas planetarum. R...tum (?) Ptolomei et Pictagore secundum naturas planetarum subtilissima doctrina compilatum — Novem et 9 maior vincet.’
= **Pseudo-Ptolemy, *Canon Ptolomei et Pictagore de diversis eventibus secundum naturas planetarum* (B.18)**. No glosses.

Prague, Národní knihovna České republiky, V.A.11 (802)

s. XV¹ (before 1432; Truhlář dates the MS to the 14th c.). **Prov.:** Johannes Andree Schindel by c. 1431–1432 (see f. 14v–15r).

Paper, 68 f., two hands (f. 1–50v and 51r–68v).

Astronomy: ***Ptolemaica* (1r–59v)**; scattered astronomical notes and diagrams (59v–68v). Blank: 64r.

Note The notes f. 59v–68v include, on f. 62v, four proofs that are reworkings of proofs from *Almagest*, I.9 and I.12 or of the *Almagesti minor*, I.4–7 (‘... habemus FHK FK sit corda nota — ergo proportion DA ad EA surgit ex proportionibus DF ad FG et GB ad BE, quod proposuimus’). They have however different diagram letters (and diagrams are missing), so that it is difficult to say how similar or dissimilar they are from *Almagest* or *Almagesti minor*. The other notes are not directly related to *Almagest* or *Almagesti minor*, they include a note on lunar years with a table (59v), a set of notes on optics (60r–62r), notes on lunar and solar eclipses (63r–63v), a series of values related to the Sun, the Moon and the planets (64v–66v), a little note on epicycles (67r) and diagrams and values for Saturn (?), Jupiter and Mars (67v–68v) (communication Henry Zepeda, 18 November 2014).

Bibl. J. Truhlář, *Catalogus codicum manu scriptorum qui in C. R. Bibliotheca Publica atque Universitatis Pragensis asservantur*, I, Praha, 1905, 326–27; Zepeda 2018, 57.

1r–59v ‘<O>mnium recte philosophancium non solum verisimilibus et credibilibus argumentis — tenebrarum sic habent. Ave gratia plena Dei genitrix Virgo ex te enim ortus est. Scriptoris votum, Virgo, tu respice totum. Explicit liber Almagesti minoris et Deo gratias.’
= ***Almagesti minor* (C.1.4)**. A few marginal notes by the scribe and by Johannes Andree Schindel. The latter include observations of the length of the year for 1431–1432 on f. 14v–15r.

Prague, Národní knihovna České republiky, VIII.G.27 (1609)

s. XV. **Or.:** Bohemia (cf. f. 107r).

Paper, I + 146 f. (new foliation in pencil, upper right corner), one main hand (except for f. 48–59 and 108–134).

Medicine, astrology and geometry: table of contents, 15th c. (Iv); Johannitius, *Isagoge* (1r–7r); table: ‘Longus. Longus pulsus qui in longum plus extenditur...’ (7v–8v); Philaretus, *De pulsibus* (9r–10v); Hippocrates, *Aphorismi* (11r–18v); Hippocrates, *Prognostica* (19r–24^{bis}r); Johannes Damascenus, *Aphorismi* (25r–29r); Hippocrates, *De regimine acutarum* (29r–36v); *Recommendatio astronomie* ‘Astronomia est scientia ad sciendum Deum altissimum...’ (37r–40v); Giles of Corbeil, *De urinis* (41r–46v); notes on the colour of urine (46v–47r); description of illnesses ‘Alopecia: Eiusdem sunt speciei...’ (48r–59v); **Ptolemaica** (60r–72v); Alcabitius, *Introductorius* (73r–107r); ‘Isti libri non habentur in Boemia: Primum Planispherium Ptholomei...’ (107r); ‘In Christi nomine amen. Vidimus nonnullos artium scolares liberalium valentissimos... Explicit tractatus de radiorum projectionibus et directionibus significatorum. Amen’ (108r–134v); Euclid, *Elementa*, ed. Campanus of Novara, Books I–VI (135r–145v). Blank: Ir, 10^{bis}, 24^{bis}v, 47v, 72^{bis}, 107v, 146.

Bibl. J. Truhlář, *Catalogus codicum manu scriptorum qui in C. R. Bibliotheca Publica atque Universitatis Pragensis asservantur*, I, Praha, 1905, 596–97; Thorndike 1948, 59–60; Lemay 1999, I, 270 (‘Prague 1610’ by mistake).

60r–72v ‘Dixit Ptholomeus: Iam tib (!) scripsi, Yesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est. Astrologus enim non debet dicere rem specialiter sed universaliter... Mundanorum ad hoc et ad illud mutatio corporum supercelestium mutatione — de eodem climate, id est in libro Metheorum et eiis (?). Explicit Centiloquium Ptholomei etc.’

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. Plato of Tivoli (C.3.1.1)**, with all propositions also given in the ‘Mundanorum’ version (C.3.1.3). The commentary is omitted, except in v. 2–3. No glosses, but the scribe added v. 7, which he had omitted *in loco*, in the lower margin of f. 61r.

Prague, Národní knihovna České republiky, adlig. 14.H.232 (2765)

s. XVI^{ex}. **Or.:** Italy (?).

Paper, 34 f., unnumbered, one hand or perhaps three similar hands (I: f. 1–3r; II: f. 3r–13r and 15r–34v; III: f. 13v–14r). Several folia are missing between f. 14 and 15. This MS is appended to the printed text of Magini’s *Ephemerides*, published in Venice in 1582. A note by the main scribe on the inner back cover reads: ‘Petri Pitati Veronensis Ephemerides ab anno 1552 usque ad annum 1562 inclusive.’

Astrology and astronomy: Alkindi (?), *Saturnus in Ariete sub radiis...* (1r–3r); anthology of astrometeorology, based on Pliny, Haly, Aomar, Albumasar, Leopold of Austria, Guido Bonatti, Regiomontanus and Johannes Stöffler (3r–13r); **Ptolemaica** (13v–14r); astrological and astronomical notes and tables (15r–34v, beginning missing), based on several authors, e.g. ‘ex Petro Pitato’ (16r), Johannes Stöffler (19v), Ptolemy and Regiomontanus (21v), Giuntini (26v). Blank: 14v.

Bibl. J. Truhlář, *Catalogus codicum manu scriptorum qui in C. R. Bibliotheca Publica atque Universitatis Pragensis asservantur*, II, Praha, 1906, 372.

13v–14r ‘Cla<udii> Ptolemaei mathematici inerrantium stellarum significationes per Nicolaum Leonicum e Graceo translatae. Ianuarius. Kal.: Sol elevari incipit, longiusculi fiunt dies, Aquila et Corona occidunt, tempestatemque efficiunt. 4: Sol magis ascendit, Cancri medium occidit, ventique ponunt — (Martius) Sole Piscium dimidium obtinet, Equus occidit.’
= **Pseudo-Ptolemy, *Inerrantium stellarum significationes* (B.13)**, abrupt end in the month of March at the bottom of f. 14r. No glosses. The text was copied from a printed version.

Princeton, University Library, Garrett 95

s. XV^{med} (after 1441, date of composition of the text f. 127v–130v; first half of 15th c. acc. North, early 15th c. acc. Panti). **Or.:** England, perhaps the University of Oxford. **Prov.:** the MS belonged to the earls of Northumberland in Petworth (West Sussex) by the second half of the 16th c.; Charles Henry Wyndham, Baron Leconfield (1830–1901); Bernard Quaritch in 1928; Robert Garrett (1875–1961), who donated the MS to Princeton University Library in 1942.

Parchment, III + 172 + II^a f. (foliation in pencil in upper right corner, which replaces a previous modern pagination 1–355), one main hand.

Liberal arts: table of contents, added in the 15th c. (Iv); Robert Grosseteste, *De generatione sonorum* (1r–2v); *De modis significandi* (3r–8r); Thomas Aquinas, *De propositionibus modalibus* (9r–10v); *Tractatus de divisione logice* (11r–16r); Robert Grosseteste, *De cometis* (17r–18v); Robert Grosseteste, *De impressionibus elementorum* (18v–20r); Robert Grosseteste, *Quod homo sit mundus minor* (20r); Robert Grosseteste, *De differentiis localibus* (20v–21r); Franciscus de Mayronis, *De signis nature* (21v–23v); Raymundus Lullus, *Ars brevis* (24r–27v); Simon Bredon, *De arithmetica* (29r–46r); ‘Cum liberalis experiential Boicii disputet...’ (46v); John Lavenham, *De ludo philosophorum* (47r–54r); Jordanus de Nemore, *Elementa super demonstrationem ponderum* (55r–59v); Robert Grosseteste, *De iride* (61r–63v); Robert Grosseteste, *De lineis, angulis et figuris* (63v–66r); Robert Grosseteste, *De luce* (66r–68v); ‘Tractatus iste dicitur ars metrica et dicitur ars metrica (!), dicitur ars artis et metris...’ (69r–75v); Albertus Magnus, *De forma resultante in speculum* (76r–79v); ‘Quatuor sunt species cantuum...’ (80r–82r); John Torksey, *De quadratis figuris primis et sex speciebus notarum* (82v–83v); ‘Omne instrumentum musice quo communiter utimur...’ (84r–85r); ‘Incipit Gilbertus de proportionibus fistularum ordinandis. De hiis instrumentis que flatus aspiratione...’ (85r–86r); John of Murs, *Musica speculativa* (87r–99v); Richard of Wallingford, *Quadripartitum*, Part I (99v–109v); ‘Notandum est hic de kata coniuncta et disiuncta in numeris...’ (110r–110v); Robert Grosseteste, *De sphaera* (111r–120v); ‘Nota: Si quis cristallinum sphericum vel corpus...’ (121r); ‘Sciendum quod materia cibi primo recipitur in os...’ (121v); calculus of the victorious and the vanquished ‘In hac spera potes videre quando duo pugiles sunt in bello...’, with table (122r); sphere of Apuleius/Pythagoras (122v–123v); ‘Investigantibus chilindri compositionem quod dicitur

horologium viatorum...’ (124r–127r); judgement on the nativity of Henry VI ‘Cum rerum motu ac varietate sydere virtutis intelligentiam...’ (127v–130v); Robert Grosseteste (?), *De impressionibus aeris* (131r–134v); ‘Aries natura igneus, gustu amarus, orientalis, bicolor, porrectus, biformis...’ (135r–136v); **Ptolemaica** (137r–139v); ‘Gloriosus atque sublimis Deus a rerum exordio...’ attr. John Holbroke (140r–140v); Guillelmus Anglicus, *De urina non visa* (141r–145v); Henry of Langenstein, *De reprobatione eccentricorum et epicyclorum* (146r–167v); *Theorica planetarum Gerardi* (167v–168r); ‘Astrolabii circulos et membra nominatim discernere...’ (168v–172v). Blank: Ir, II–III, 8v, 16v, 28, 54v, 60, 86v, I^a–II^a (except pen trials).

Bibl. De Ricci 1935–1937, I, 883; North 1976, II, 32 and 38–39; Meyer/Huglo 1992, 177–79; Lemay 1999, I, 422; Panti 2001, 259–60; Moulinier-Brogi 2011, 232–33; D. C. Skemer, *Medieval and Renaissance Manuscripts in the Princeton University Library*, I, Princeton, 2013, 203–11.

137r–139v ‘De nativitatibus [title added by another hand in upper margin]. <D>ixerunt Tholomeus et Hermes quod locus Lune in quo erat Luna in hora in qua infunditur — (137v) et hoc expertus fuit multociens. Nota tantum: Pro invenienda figura conceptionis nati omnibus aliis pretermisiss — Lune 9. Explicit tractatus de nativitatibus secundum ... [followed by a crossed-out word].’
 = **John Holbroke**, *Commentum in Dixerunt Ptholomeus et Hermes* (C.4.8). F. 138 and 139 are inverted. No glosses.

Princeton, University Library, Garrett 99

s. XIII^{ex}–XIVⁱⁿ (the years 1296 and 1297 mentioned in glosses f. 154v and 162r respectively).
Or.: France, probably Paris. **Prov.:** Wilfrid M. Voynich (1865–1930), who sold the MS to Robert Garrett (1875–1961), who in turn donated it to Princeton University Library in 1942.

Parchment, 236 f., several neat hands, decorated initials.

Astronomy and arithmetic: canons of Toledan tables (1ra–8ra); Toledan tables (8v–83r); tables of Toulouse (83v–94v); Petrus de Sancto Audomaro, *Quadrans novus* (95ra–114vb); star table (115r–115v); Sacrobosco, *Algorismus* (117ra–124ra); Sacrobosco, *De sphaera* (124rb–136vb); *Algorismus de fractionibus* ‘Cum multos de numeris tractatus vidisses...’ (137ra–138vb); Sacrobosco, *Computus* (139ra–162rb); Robertus Anglicus, *Quadrans vetus* (162va–168va), with solar tables (168v–170v); *Tabula Gerlandi* (172v–173va); Pseudo-Robert Grosseteste, *Kalendarium* (173va–179v); Pseudo-Messahallah, *De compositione astrolabii* (180ra–198rb); *Theorica planetarum Gerardi* (198rb–206ra); Pseudo-Thebit Bencora, *De motu octave spere* (206ra–209rb, with diagram 217r); **Ptolemaica** (209rb–212vb); Thebit Bencora, *De recta imaginatione spere et circularum eius diversorum* (212vb–214va); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (214vb–216vb); diagram from text f. 206r–209r above (217r); diagram of aspects (217v); on eclipses ‘Ut annos Arabum et menses...’ (218ra–228ra); table for computing the zodiacal position of the Moon (228v); added diagram and notes of computus (229r–230v); Johannes de Pulchro Rivo, *Computus* (231ra–234va); Easter dates 1370–1400, added (236r); scattered notes (236v). Blank: 116–116^{bis}, 171r–172r, 235.

Bibl. De Ricci 1935–1937, I, 884; Pedersen 1983–1984, II, 576; Pedersen 2002, I, 172; D. C. Skemer, *Medieval and Renaissance Manuscripts in the Princeton University Library*, I, Princeton, 2013, 218–23; Lohr 2025, 113*.

209rb–212vb ‘Incipit liber Thebith Benchorath de his que indigent antequam legatur Almagest<i>. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Core de his que indigent antequam legatur Almagesti.’
= **Thebit Bencora**, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Rome, Biblioteca dell’Accademia Nazionale dei Lincei e Corsiniana, 43 F 2 (Cors. 1287)

s. XV^{ex} (1490, cf. colophon f. 189v). **Or.:** Naples (autograph corrections by Giovanni Pontano). **Prov.:** ‘Eugenia Ioannis Pontani filia ex mera eius liberalitate hunc librum biblyothecae ... [one or two words erased]. In clarissimi patris memoria dicandum curavit’ (f. 1r, lower margin).

Parchment, 192 f., a very neat hand, painted initials.

Ptolemaica (single text). Blank: 1, 189r, 191–192.

Bibl. Kristeller 1963–1992, II, 107 and 562; *CMFB*, VI, 241–42; Rinaldi 2002, 110 (no. 3).

2r–190v ‘Ioannis Ioviani Pontani liber primus commentationum in centum sententiis Ptolomei ad illustrem principem Federicum ducem Urbini feliciter incipit. Tametsi publicarum rerum administratio, bellique gerendi cura detertere me iure possunt, Federice dux fortissime... (3r) Textus Ptolemei. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronuntiet... (3v) Commentatio Pontani. Nec medici, nec moralis philosophi sola est cognitio, sed quaedam etiam operatio — (188v) tum stellarum radii vel trahentes eas, vel impellentes pro qualitate aspectus et virium efficacia. Libri secundi commentationum finis. MCCCCLXXXX. (189v) Ac nihilominus quid alii sentiant atque in primis hospes ac familiaris meus Paulus — media ultimis undique consentiant.’
= **Giovanni Pontano**, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16), with the last part of the comm. on v. 65 added at the end, 189v–190v (as noted by the scribe f. 128r: ‘Require signum hoc in fine libri et subdes’). No glosses. Corrections by Pontano.

Rome, Biblioteca Nazionale Centrale, S. A. Valle 103

s. XVII¹ (in or before 1642 for the Ptolemaic section; the various parts of the MS date from the 16th and 17th c.). **Or.:** Vincenzo Riccardi’s collected papers, including the Ptolemaic section copied in his hand. **Prov.:** Rome, Theatine church S. Andrea della Valle.

Paper, 880 f. (paginated 1–138, then foliated 139–935), several hands. This MS is the third volume of Vincenzo Riccardi's papers, along with MSS S. A. Valle 101 and 102.

Vincenzo Riccardi's collected papers in Italian, Latin, Greek and Hebrew, including his own commentaries and translations covering all subjects. **Ptolemaica (884r–898r).**

Bibl. D. Surace, 'Copisti greci in tre codici sconosciuti della Biblioteca Nazionale Centrale di Roma (S. A. Valle 100, 102–03)', *Néa 'Pómy. Rivista di Ricerche Bizantinistiche* 8 (2011), 219–303: 298–301 and *passim*; D. Surace, *Catalogo dei manoscritti greci della Biblioteca Nazionale Centrale di Roma*, Roma, 2016, 139–42; A. Giustini, S. Iannuzzi, M. Pacitto et al., *I manoscritti dei fondi S. Andrea della Valle e S. Francesco di Paola della Biblioteca Nazionale Centrale di Roma*, Roma, 2016, 164–71.

884r–898r 'Porphyrii philosophi Introductio in Apotelesmata Ptolemaei. Proemium. Quoniam ea quae contemplationem (*corr. in doctrinam*) continent coelestium corporum et ex (*this word crossed out*) quae ex illa — et Mercurii 14 ante 7 et pone 7.'
= **Pseudo-Porphyry, *Introductio in Apotelesmata Ptolemaei*, tr. Vincenzo Riccardi (C.2.25.2)**, draft version. Numerous corrections by Vincenzo Riccardi.

Rome, Biblioteca Vallicelliana, F 37

s. XV^{ex}–XVI^l (in or after 1483 for f. 148v–152v). **Or.:** Italy, probably Rome (cf. f. 4r–5r and 148v–152v). **Prov.:** Vincenzo Badalocchio (1529–1593); Vincenzo Vettori (1700–1782).

Paper, 343 f., one main hand, except for printed texts (f. 7r–53v and 227r–343v) and for a few sections written by several later hands, at least f. 1–6 and 78–81.

Astrology and astronomy in a collection of texts, excerpts and notes sometimes difficult to collate. Identifiable items include: judgement on the nativity of Franciscus Diaz (son of the prothonotary Didacus Diaz), born in Rome on 5 August 1534, added by another hand (4r–5r); *Capitula Almansoris* (57r–60v); Hermes, *Centiloquium* (61r–63v); **Ptolemaica (63v)**; 'Tractatus conficiendi instrumentum ad directiones cuius (?) significatoris habendas. Accipe tabulam planam super cuius extremitatem fac circulum...' (64r–66v); Messahallah, *Liber interpretationum*, chs 5–6 (67v–68r); Pseudo-Messahallah, *De compositione astrolabii*, second part on uses (73^{bis}r–77r); Albumasar, *Flores* (84r–88v); Albumasar, *De revolutionibus annorum mundi* (88v–110v); Messahallah, *Epistola de rebus eclipsium* (111r–113v); judgement on a nativity of 13 September 1423, dated 'Rome 1483, 9a Maii' (149v–152v); *Astronomia Ypocratis* (161r–164r); several texts on astronomical instruments (172r–198r), including Franco de Polonia's *Tractatus de turketo* (175v–176v); Giles of Lessines, *De essentia, motu et significatione cometarum* (203r–222v); Zael, *Introductorium*, incomplete (223r–226v). The printed texts include Johannes Ganivetus, *Amicus medicorum*, ed. 1496 (7r–44v); Johannes Ganivetus, *Celi enarrant gloriam Dei...*, ed. 1496 (45r–53v); Johannes Virdung of Hassfurt, *Nova medicinae methodus nunc primum et condita et aedita ex mathematica ratione morbos curandi*, ed. 1532 (227r–330v); and Girolamo Manfredi, *Centiloquium de infirmis et medicis*, ed. 1488 (334r–343r).

Bibl. V. Vettori, *Inventarium omnium codicum manuscriptorum Graecorum et Latinorum Bibliothecae Vallicellianae digestum*, Roma, 1749, I, 302r (not seen); online entry on Manus OnLine (updated 20.12.2018) http://manus.iccu.sbn.it/opac_SchedaScheda.php?ID=171917.

63v ‘Capitulum de scientia projectionis radiorum. Cum projectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate. Finis.’
= **Pseudo-Ptolemy, *Liber projectionis radiorum stellarum* (B.6)**. No glosses.

Rome, Biblioteca Vallicelliana, F 86

s. XIII. **Or.:** probably Sicily (Messina?), cf. the southern Italian and Sicilian origin of several of the texts, the bilingual (Greek-Latin) milieu and the note added on f. 55r, originally blank, mentioning a Guillelmus de Mileto, notary in Messina (‘Quaternio memorialis vendicionum, emptio et aliorum contractuum confectuum in civitate Mess<ane> [Messina] per manus notarii Guillelmi de Mileto [Mileto, Calabria], scriptus mense Marcii VIII^e indictionis’), who must be Guillelmus de Mileto, the imperial notary in Messina and translator from Greek into Latin active c. 1239 (on him, see G. Brunetti, ‘Gli autografi del notaro’, *L’Ellisse. Studi Storici di Letteratura Italiana* 4 (2009), 9–42: 12 and 14). **Prov.:** Fabiano Giustiniani (1578–1627) copied the general title and the table of contents f. IIr and IIIr–IIIv.

Paper, VIII + 172 f., several hands, one of which copied f. 1–28v (except f. 15–18) and perhaps f. 44r–44v, and another, f. 28v–39r, 42v–43v and 45r–47v.

Astrology, geometry, medicine and natural philosophy, in Latin and Greek: general title and table of contents, by Fabiano Giustiniani (IIr and IIIr–IIIv); notes of computus (VIr); text in Greek (VIv–VIIr); fragment of an astrological text (1r); **Ptolemaica (1v–23v)**; Messahallah, *Epistola de rebus eclipsium* (25r–28v); judgement on a nativity of 30 December 1160 ‘Omnes philosophi concordati sunt quod locus Lune in nativitate fuit ascendens in conceptione...’, end gone (29v–39r and 42v–47v, with two horoscopes f. 28v and 29r); representation of an astrolabe (39v); Euclid, *Elementa*, tr. Gerard of Cremona, I.1–5 (49ra–54vb); *Tabula Salernitana* (69r–74r); Alfanus, *De quattuor humoribus corporis humani* (74v–76r); Aristotle, *Meteorologica*, Book IV, tr. Henricus Aristippus (94ra–105ra); Aristotle, *De generatione et corruptione*, tr. Burgundius of Pisa (106ra–118vb); Aristotle, *De anima*, tr. William of Moerbeke (120r–136v); Pseudo-Aristotle, *De vegetalibus*, tr. Alfred of Shareshill (141r–152v). The intervening folia contain texts in Greek, mainly scientific (40r–41v, 48r–48v, 56r–64v, 80r–91v, 158r–161v, 164r–166v and 169r–169v), including Pseudo-Ptolemy’s *Karpos*, under the Latin title ‘Centum verba Ptholomei’ (56r–63r). Blank: I, IIv, IV–V, VIIv, 24, 42r (except note), 55 (except note f. 55r), 63v–68 (except for a table in Greek f. 64v), 76v–79v, 92–93, 105v, 119, 137–140 (except note f. 140r), 163v, 167–68, 172.

Bibl. V. Vettori, *Inventarium omnium codicum manuscriptorum Graecorum et Latinorum Bibliothecae Vallicellianae digestum*, Roma, 1749, I, 313r–313v (not seen); E. Martini, *Catalogo di manoscritti greci esistenti nelle biblioteche italiane*, II, Milano, 1902 [Indici e cataloghi XIX],

189–91; online entry on Manus OnLine (updated 11.12.2014) https://manus.iccu.sbn.it/opac_SchedaScheda.php?ID=236149.

- 1v–23v ‘Dixit Ptholomeus: Iam scripsi tibi, Iesure, libro (!) de hoc quod <operantur> stelle in hoc seculo... Scientia stellarum ex te et illis est... Quod dixit Ptholomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — et ego Deum deprecor ut te diligat. Perfectum (!) est huius libri translacio 17 die mensis Marcii, 12 die mensis Gumedii secundi anno Arabum 5301.’
 = **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, tr. **Plato of Tivoli (C.3.1.1)**. F. 15–18 (containing v. 61–81) are an insert in another hand, probably aimed at replacing damaged folia in the exemplar (f. 19, which includes v. 79–83, is indeed partially damaged). No glosses.

Salamanca, Biblioteca Universitaria, 189

s. XIV¹. **Or.:** Spanish hands (d’Alverny).

Parchment, 32 f., a single hand or perhaps two or several similar hands (several hands acc. d’Alverny and *Catálogo*), richly decorated initials.

Astronomy, astrology and natural philosophy: *Theorica planetarum Gerardi* (1ra–6vb); Prophatius Judeus, *Quadrans novus* (6vb–15v); Robert Grosseteste, *De sphaera* (15va–20vb); **Ptolemaica (21ra–28va)**; Avicenna, *De mineralibus* (29ra–31rb); ‘Nota quod tota practica huius scientie potest sub quatuor terminis generaliter comprehendi. Requirit namque practica huius scientie sublimations, distillations, dissolutions...’ (31va–31vb, beginning only, the text continues on f. 32, but this folio is torn, making its text almost entirely inaccessible).

Bibl. G. Beaujouan, *Manuscrits scientifiques médiévaux de l’université de Salamanque et de ses ‘Colegios Mayores’*, Bordeaux, 1962, 64–66; Kristeller 1963–1992, IV, 599; d’Alverny 1994, 227; Lemay 1999, I, 270–71; *Catálogo de manuscritos de la Biblioteca Universitaria de Salamanca*, I: *Manuscritos 1–1679bis*, Salamanca, 1997, 150–51.

- 21ra–21rb ‘Dixerunt Ptolomeus et Hermes quod locus Lune in hora — et hoc expertus fuit multociens.’
 = **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (**B.5**). No glosses.
- 21rb–21va ‘Verbum secundum [title in margin]. Et Ptolomeus dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
 = **Pseudo-Ptolemy**, *De cometis* (**B.4**). No glosses. The second part of the text (f. 21v) appears in smaller script, as if meant as a gloss to the beginning of the *Centiloquium* (see below).
- 21vb–28va ‘Incipit Centilogium. I. Dixit Ptolomeus: Iam scripsi, Iosure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est... I. Quod dixit Ptolomeus, ex te et ex illis est, significat quod qui res futuras

prenoscere desiderat — ego Deum precor ut te diligat. Perfecta est huius libri translatio 17 die mensis Marcii, 12 die mensis Gumedii secundi anno Arabum 530. Explicit liber centum verborum Ptolomei, translatus a magistro Iohanne Yspano.’

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. Plato of Tivoli (C.3.1.1)**, with the commentary copied in the (large) margins in smaller script. No further glosses, except for one added by another hand on f. 23r.

Salamanca, Biblioteca Universitaria, 2044

s. XVIⁱⁿ (copied in 1512, see colophon). **Or.:** MS copied for one Pedro Guzmán (Petrus Gothmanus) of Cordoba (cf. MS → Escorial, RBMSL, d.II.5) at the University of Salamanca (see colophon).

Paper, 231 f., a single hand.

Ptolemaica (single text). Blank: 1v.

Bibl. G. Beaujouan, *Manuscrits scientifiques médiévaux de l'Université de Salamanque et de ses 'Colegios Mayores'*, Bordeaux, 1962, 29; Kristeller 1963–1992, IV, 600; Kunitzsch 1986–1991, II, 21 and 174; *Catálogo de manuscritos de la Biblioteca Universitaria de Salamanca*, II: *Manuscritos 1680–2777*, Salamanca, 2002, 381; Georges (forthcoming).

1r–230v ‘Almagestum Ptolomaei. ΜΕΓΑΛΗΣΥΝ ΤΑΞΙΣ ΠΤΟΛΟΜΑΙΟΥ [title page]. (2r) Incipit liber Almagestum Ptolomaei appellatus, qui precepto Maimonis regis Arabum qui regnavit in Baldach Abalazez filii Iosephi filii Matre Arimetia et Sergio filio Abe Christiano anno duo decimo et ducentesimo setae Sarracenorum translatus est, quem composuit Ptolomaeus Pheludensis de scientia stellarum et motuum qui sunt in caelo, in quo tredecim sunt dictiones, prima quarum incipit quatuordecim capitula continens. Capitulum primum in quo huius scientie excelentiam et finem eius utilitatis dicam. onum domine fuit quod sapientibus non deviantibus visum est — et abbreviationem terciam sequitur et honestum est ut ponamus hic finem libri. Expleta est dictio terciadecima et ultima Almagesti Ptolomaei. ΤΕΛΟΣ ΤΗΣ ΜΕΓΑΛΗΣ ΣΥΝΤΑΞΕΩΣ ΠΤΟΛΕΜΑΙΟΥ. ΕΣΤΙ ΗΔΕ ΒΙΒΛΟΣ ΠΕΤΡΟΥ ΓΟΘΜΑΝΟΥ ΚΟΡΔΟΥΒΕ [= Petrou Gothmanou Cordoube] ΩΣ ΗΝ ΑΥΤΩΙ ΟΙΚΕΤΗΝ ΕΑΥΤΟΥ ΓΡΑΦΕΙΝ ΕΠΟΙΗΣΕ ΕΝ ΤΗ ΣΑΛΜΑΝΤΙΚΗΙ ΑΚΑΔΕΜΙΑ [= Salmantikei Akademia] ΕΤΕΙ 1512. Τῷ θεῷ δόξα.’

= **Ptolemy, *Almagesti***, **tr. Gerard of Cremona (A.1.2)**, Class B. Preface (excerpt), 2r; I, 2r–31r; II, 33ra–55ra; III, 57r–70rb; IV, 73ra–87rb; V, 87va–105rb; VI, 105va–124v; VII, 125ra–140r; VIII, 140v–157vb; IX, 157vb–173vb; X, 173vb–186ra; XI, 186rb–203vb; XII, 203vb–216v; XIII, 217ra–230v. Glosses by the scribe.

Salamanca, Biblioteca Universitaria, 2051

s. XIII^{med} (information Stefan Georges, the MS is generally dated to the 14th c.). **Or.:** southern.

Parchment, 72 f., two main hands (f. 1r–64r and 64v–70v), with additions by a different hand f. 71r and 72r.

Astrology and astronomy: Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (1ra–13rb); circular diagram on planetary aspects (13v); Alcabitius, *Introductorius* (14ra–25vb); **Ptolemaica (26ra, 26ra–26va and 26va–33vb)**; *Capitula Almansoris* (34ra–35rb); Gergis, *De significatione septem planetarum in domibus* (35va–36va); Bethen, *De horis planetarum* (36va–36vb); **Ptolemaica (37ra–55vb)**; Zael, *Liber iudiciorum* (56ra–64ra, *Introductorium*, *Quinquaginta precepta*, *De electionibus* and *Liber temporum*); Messahallah, *Liber receptionis* (64va–70va); Haly Abenragel, *De iudiciis astrorum*, excerpt on comets, added (71r); note on the comet of 1341, added (72v). Blank: 71v–72r.

Bibl. G. Beaujouan, *Manuscripts scientifiques médiévaux de l'Université de Salamanque et de ses 'Colegios Mayores'*, Bordeaux, 1962, 94–95; Kristeller 1963–1992, IV, 600; Lemay 1999, I, 272; *Catálogo de manuscritos de la Biblioteca Universitaria de Salamanca*, II: *Manuscritos 1680–2777*, Salamanca, 2002, 391–93.

26ra	‘Dixerunt Ptolomeus et Hermes quod locus Lune — et hoc expertus fuit multotiens.’ = Pseudo-Ptolemy’s Dixerunt Ptholomeus et Hermes quod locus Lune... (B.5). Glosses by the scribe and by one or two other hands.
26ra–26va	‘De stellis caudatis. Ptholomeus dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’ = Pseudo-Ptolemy, De cometis (B.4). Gloss by a later hand on the comet of 1402.
26va–33vb	‘Centum verba Ptholomei. Liber amphorismorum Ptholomei et est liber magni fructus. Dixit Ptholomeus (!): Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Primum verbum Ptholomei. Scientia stellarum ex te et illis est... Haly expositor. Quod dixit Ptholomeus, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — et ego Deum deprecor ut te diligat. Perfecta est huius libri translatio 17^a die mensis Martii, 13^a die mensis Iumedi secundi anno Arabum 520. Laus tibi domine rex eterne glorie. Amen.’ = Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), tr. Plato of Tivoli (C.3.1.1). Substantial glosses by the scribe, some of which introduced by ‘Sensus est...’ or ‘Sensus huius littere...’. Fewer glosses by at least one later hand.
37ra–55vb	‘Incipit liber 4 tractatum Ptholomei Alfilludhi in scientia iudiciorum astrorum, et in primo tractatu sunt 24 capitula. Capitulum primum in collectione intellectus scientie iudiciorum astrorum. Quadripartitus sive Alarba dicitur. <R>erum, Yesure, in quibus est pronosticabilis scientia

stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro finem imponere non incongruum existimamus. Explicit liber 4 tractatum Ptholomei in iudicandi discretione per stellas de futuris et in hoc mundo constitutionis et destructionis contingentibus. Amen. Amen.’ = **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 37ra–41vb; II, 41vb–46rb; III, 46rb–52rb; IV, 52rb–55vb. Substantial interlinear and marginal glosses by the scribe or a contemporay hand, some of which are introduced by ‘Sensus huius littere...’ or refer to ‘Haly’. Fewer glosses by one or two other hands.

Salamanca, Biblioteca Universitaria, 2662

s. XIV^{ex}.

Paper, 236 f., composite MS made of two parts, each copied by a single neat hand (f. 3–188 and 189–236), reserved initials throughout. F. 1–2 are from another MS, containing Innocent III’s sermons.

Mathematics, astronomy and optics: Sacrobosco, *Algorismus* (3ra–8ra); Sacrobosco, *De sphaera* (8ra–19rb); Sacrobosco, *Computus* (19va–41rb); Robertus Anglicus, *Quadrans vetus* (41rb–47ra), with solar tables 1292–1295 (47rb–49r); **Ptolemaica (49va–50va)**; ‘Accepturus horas cum chinlindro (!)...’ (50va–50vb); *Tabula Gerlandi* (51ra–51vb); Balduinus de Mardochio or Marrochio, *Computus manualis* (51vb–58va); Pseudo-Robert Grosseteste, *Kalendarium* (59ra–65r); *Tabula Gerlandi* (65v–66r); Petrus de Dacia, lunar table (66v); Pseudo-Messahallah, *De compositione astrolabii* (67ra–84vb); *Theorica planetarum Gerardi* (84vb–91vb); Pseudo-Thebit Bencora, *De motu octave spere* (91vb–94va); **Ptolemaica (94va–97va)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (97va–99ra); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (99r–100va); canons Cb of Toledan tables ‘Quoniam cuiusque actionis quantitatem...’ (100vb–125rb); two tables, added by a 15th-c. hand (125v); Toledan tables (126r–188v); Roger Bacon, *De perspectiva* (189ra–196va); Roger Bacon, *excerpta varia* ‘Ostensum est in principio Compendii philosophie quod necessarium est Latinis...’ (197ra–213ra); Roger Bacon, *De multiplicatione specierum*, incomplete (213rb–235ra); scattered notes (235v and 326v) and table of contents (236v) added by a 15th-c. hand. Blank: 236r.

Bibl. A. Cordoliani, ‘Inventaire des manuscrits de comput ecclésiastique conservés dans les bibliothèques de Madrid’, *Hispania Sacra* 7 (1954), 111–43; 134–39 (no. 529); G. Beaujouan, *Manuscrits scientifiques médiévaux de l’Université de Salamanque et de ses ‘Colegios Mayores’*, Bordeaux, 1962, 174–78; D. C. Lindberg, *Roger Bacon’s Philosophy of Nature. A Critical Edition, with English Translation, Introduction, and Notes of De multiplicatione specierum and De speculis comburentibus*, Oxford, 1983, LXXVI; Pedersen 1983–1984, I, 288–89; *Catálogo de manuscritos de la Biblioteca Universitaria de Salamanca*, II: *Manuscritos 1680–2777*, Salamanca, 2002, 1055–1059; Zepeda 2018, 73.

49va–50va ‘Incipit opus armillarum. <Q>ueruntur primo due armille convenientis mensura — (50rb) vicinior est consideratio. Opus instrumenti declinationis

Solis. <S>ume laterem ligneum vel lapideum — si Solis umbram in omni meridie circa utrumque maxime solstitium observaberis vel observaberi.’

= *Almagesti minor* (C.1.4), excerpts on instruments from V.1, I.15 and V.11. No glosses.

94va–97va ‘Incipit liber Thebith ben Chorath de his que indigent expositione antequam legatur Almagesti. <E>quator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositi erunt retrogradi. Expletus est liber Thebith filii Core de his que indigent expositione antequam legatur Almagesti.’

= *Thebit Bencora, De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Salisbury, Cathedral Library, H.1.29 + ZC2.8.10

s. XIIIⁱⁿ. **Or.:** northern (England?). **Prov.:** MS fragments found in the binding of two books printed in 1550 from the library of Edmund Geste (c. 1515–1577), bishop of Salisbury, who left his books to the cathedral library on his death.

Parchment, 6 pp., a single hand. The two sets of fragments have been labelled ‘PDN 270’ (H.1.29) and ‘PDN 290’ (ZC2.8.10) by Seldwyn, who did not identify Ptolemy’s text. Proper identification was made in September 2019 by Mark Thakkar, whose findings were published online, together with photographs of the fragments. For convenience, the six pages have been renumbered here 1–6 following the order of the text. The concordance with the photo numbers are as follows: 1 = PDN270–3, 2 = PDN270–6, 3 = PDN270–5A, 4 = PDN290–1 + PDN290–2 (two photos of different parts of the same page), 5 = PDN270–4, 6 = PDN290–3.

Ptolemaica (single text).

Bibl. D. Selwyn, *Edmund Geste and His Books. Reconstructing the Library of a Cambridge Don and Elizabethan Bishop*, London, 2017, 207, 208, 424, 429 and *passim*; supplemented by Mark Thakkar on the website of the Bibliographical Society (<http://www.bibsoc.org.uk/Geste/Pastedowns>) under PDN 270 and PDN 290. My thanks to William Duba for calling my attention to these fragments.

1–6 ‘(1) ... aut quanta sit longitudo puncta quod est supra summitatem — ad medium celi quod est supra terram est quantitas arcus TA orbis equationis diei, et tempus... [17 lines, II.1–2]; (2) ... parcium et XXXIII minutorum et XXII secundorum ad CXIII partes et XXXVII minuta — CIX parcium et XIII^{or} minutorum et LIII secundorum ad XVIII partes et XXXI... [17 lines, II.3]; (3) ... <l>ongitudo diei lo<ngioris> et revolutio um<bre gnom>onum quatuor m<ensium> — et que sunt post illas secundum ordines suos, quibus...’ [17 lines, II.6–7]; (4) ... angulus KLT equatur toti angulo HMR. Quapropter est (?) angulus ELT...’ [one line, II.7] ... <longitudini>s a quolibet duorum punctorum tropicorum erunt equalium elevationum — qui est RLET. Et illud est quod oportuit nos declarare [12 lines, II.7]; (5) Iam ergo declaratio est

nobis ex eis que prediximus quod cum sciverimus — et eius corda est CXVII partes et XXXI mi<nuta>...' [16 lines, II.7]; (6) <proportion>ne<m> CXII parciū et XXIII minutorum et LVI secundorum ad XII partes et — Ex quia longitudo diei longioris est XIII hore...' (12 lines, II.7).'

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, fragments from II.1–2, 3 and 6–7. Glosses by the scribe (at least two glosses visible on pp. 1 and 3).

San Marino (Ca), Henry E. Huntington Library, HM 65

s. XIII^{ex} (1279, cf. f. 184r: 'Finit dictio undecima Almagesti Ptolomei Pheludiensis anno domini millesimo ducentesimo septuagesimo nono...'). **Or.:** France ('southern France' acc. Dutschke; Parisian decoration acc. Stefan Georges, private communication). **Prov.:** Pier Leoni (d. 1492), physician to Lorenzo de' Medici; probably the Jesuit College in Rome; Wilfrid M. Voynich (1865–1930); Frank W. Gunsaulus (1856–1921); Henry E. Huntington.

Parchment, 271 f., a single neat hand, painted initials f. 1r and at the beginning of each book of the *Almagest*, numerous decorated initials.

Ptolemaica (single text). Blank: 271.

Bibl. De Ricci 1935–1937, I, 49; Kunitzsch 1986–1991, II, 13–14; C. W. Dutschke, *Guide to Medieval and Renaissance Manuscripts in the Huntington Library*, I, San Marino, 1989, 139–40; Kristeller 1963–1992, V, 390.

1r–270v 'Quidam princeps nomine Albugaife in libro suo quem scienciarum electionem et verborum nominavit... (2r) Capitulum primum. Bonum scire fuit quod sapientibus non deviantibus visum est — (218v) abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Explicit Almagesti. Tabule primi libri' (followed by tables f. 219r–270v).

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1r–2r; Book I, 2r–17v; II, 17v–37r; III, 37r–53r; IV, 53r–70v; V, 70v–94r; VI, 94r–112r; VII, 112r–122r; VIII, 122r–130r; IX, 130r–146r; X, 146r–163r; XI, 163r–184r; XII, 184r–201r; XIII, 201r–218v. The tables, missing in the text, are supplied at the end, f. 219r–270v, including the star catalogue f. 241r–258r. A few marginal notes by the scribe and by a later hand.

Schweinfurt, Stadtbibliothek, Ha 9 (H 180)

s. XVI². **Or.:** Johannes Hommel copied f. 1–21 and Johannes Praetorius f. 22–28. **Prov.:** Johannes Praetorius.

Paper, 28 f., two hands: I, f. 1–21; II, f. 22–28.

Astronomy: scattered astronomical notes and diagrams (1r–7v); ‘Doctrina de sphaerae optica in planicie descriptione generalis, eiusque varius usus, adiunctis geometricis demonstrationibus. Theorema i. Sphaera in aliquot polorum planiciem contingat...’ (8r–21r); **Ptolemaica** (22r–25r); ‘Proiectio sphaerae cum circulis signorum et horariis in planum’ (26r–28v). Blank: 21v, 25v.

Bibl. Kristeller 1963–1992, III, 693; Müller 1998, 45–46 and 358, no. 174 (entries by M. Folkerts).

22r–25r ‘Analemma Ptolemaei quomodo se in plano habeat. Instar Analemma Ptolemaei — secundum (?) percipiuntur.’
= **Johannes Praetorius, *Analemma Ptolemaei quomodo se in plano habeat* (C.4.3)**. A few marginal notes by Praetorius.

Schweinfurt, Stadtbibliothek, Ha 16 (H 85)

s. XVI^{ex} (in or before 1595 for f. 9–20). **Or.:** f. 9–20 were sent by Herwart von Hohenburg to Johannes Praetorius on 16 October 1595 (cf. Praetorius’s note in the margin of f. 9r: ‘Versio haec a d<omino> Cancell<ario> Bavarico mihi missa 16 Octobr. 1595’). **Prov.:** Johannes Praetorius.

Paper, 20 f. (new foliation in pencil, lower right corner). MS made of two parts: I. f. 1–8, two hands, including Johannes Praetorius’s f. 8r–8v; II. f. 9–20, originally paginated 1–24, a single neat hand.

Scientific texts in Greek and Latin: fragments from Theodorus Melochites (1r–5r), Heron of Alexandria (5r–7r) and Maximus Planudes (8r–8v) in Greek; **Ptolemaica** (9r–20v). Blank: 7v.

Bibl. Kristeller 1963–1992, III, 693; Müller 1998, 46–47 and 335–36, no. 155 (entries by M. Folkerts).

9r–20v ‘Claudii Ptolomei De suppositione planetarum. Suppositiones, Syre, coelestium motuum in Magnae compositionis commentariis methodica ratione tradidimus — Stella autem Borealis termini obliqui circelli tanquam ad sequentia mundi grad. et sexages. Finis nec quicquam reliquum.’
= **Ptolemy, *De suppositione planetarum*, tr. before 1595 (A.3.2)**. A few short marginal notes by the scribe.

Segovia, Archivo y Biblioteca de la Catedral, B 349 (84)

s. XV² (after 1455 for f. 33r–35v, cf. f. 33r: ‘ab anno Christi 1455 usque ad annum in quo es...’). **Prov.:** ‘Es del archivo de la cathedral de Segovia’, 17th c. (f. 1r).

Paper, 106 f. formerly paginated 490–699, several hands.

Astrology and astronomy: Henry Bate of Mechelen, *Nativitas* (1r–28v); Antonius de Murellis de Camerino, prognostication for 1432 (29r–32v); ‘Cum planeta cuius est negotium est in medio celi...’ (33r–35v); table: properties of the 12 signs (36v); Firminus de Bellavalle, *De mutatione aeris*

(37r–75v); **Ptolemaica** (75v–76r); Messahallah, *Liber interpretationum* (76v–78v); ‘Domus prima, prima est illa que ascendit in oriente, demonstrat vitam...’ (79r–84v); Eustachius de Eldris, *De directionibus* (85r–89r); notes (89v); solar table dated 1331 in Paris (90r); ‘Ad retrogradationem sciendam oportet querere...’ (91r–96v); astronomical tables (97r–106v). Blank: 36r, 90v.

Bibl. G. Beaujouan, ‘Manuscrits scientifiques médiévaux de la cathédrale de Ségovie’, in *Actes du XI^e Congrès international d’histoire des sciences, août 1965*, Warsaw, 1968, III, 15–18: 17 (reprinted in G. Beaujouan, *Science médiévale d’Espagne et d’alentour*, Aldershot, 1992, IV); Steel/Vanden Broecke 2018, 3–4.

75v–76r ‘<P>tholomeus dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Dicebatur in quadam postilla libri ex quo istud commentum (?) extraxi, credo ipsum vidisse in 22 gradu Arietis anno a nativitate domini 1402 et Mars in eadem domo erat et vidi ipsum sequentem Martem. Explicit Deo gratias.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Seitenstetten, Stiftsbibliothek, 53

s. XV² (c. 1460). **Or.:** copied by Regiomontanus in Vienna acc. Zinner. **Prov.:** ‘Facultatis philosophicae Viennae 1686’ (f. 1r).

Paper, 110 f., a single hand.

Ptolemaica (single text).

Bibl. *Codicum manuscriptorum bibliothecae Seitenstettensis*, I, 1975, 114; Kristeller 1963–1992, III, 51; Zinner 1990, 206 (no. 36).

1r–110v ‘Verba Gebri filii Affla Hispalensis. Scientia species habet quarum melior — sunt digniores ut evanescent et destruantur. Completa est declaracio eius.’
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1r–3r; I, 3r–15v; II, 15v–28v; III, 28v–34r; IV, 34r–45v; V, 45v–63r; VI, 63r–78r; VII, 78r–95v; VIII, 95v–101v; IX, 101v–110v. A few marginal notes by the scribe.

Seville, Biblioteca Capitular y Colombina, 7-6-2

s. XIII² (after 1268, date of the translation of Proclus’s *Elementatio theologica*, f. 1r–31v), except for f. 226v–244va, from the 14th c., and for f. 120r–120v, 168r–169v and 244vb–245vb, added by one later hand (15th c. acc. Minio-Paluello). **Prov:** Ferdinand Columbus (d. 1539) (ex-libris, f. 1r).

Parchment, 245 f., several hands, one of which copied f. 1–162r, reserved initials. One or several folia appear to be missing between f. 120–121, 168–169, 189–190 and 225–226.

Scientific and philosophical texts: Proclus, *Elementatio theologica*, tr. William of Moerbeke (1r–31v); Euclid, *De radiis visualibus* ‘Visualis radius ab oculo super procedit lineas...’ (32r–43r);

Euclid, *De visu* (43v–54v); Euclid, *De speculis* (54v–63r); **Ptolemaica (63v–120v)**; Pseudo-Messahallah, *De compositione astrolabii* (121r–141r); Alkindi, *De aspectibus* (141v–162r); Alfarabi, *De ortu scientiarum* (162va–163va); Thomas Aquinas, *De ente et essentia* (163va–167ra); ‘Liber expositionum vocabulorum. Proposui in hoc opusculo expositiones quorundam nominum quibus utuntur astronomi...’ (167rb–168ra); *Proportiones competentes in astrorum industria*, ch. 26, added (168ra); ‘De naturis signorum. Aries natura igneus, gustu amarus, orientalis...’, end gone, added (168ra–168vb); Averroes, comm. on Aristotle’s *Posterior Analytics* ‘Commentum super libris posteriorum analecticorum. Dixit omnis doctrina et omnis disciplina...’, end gone (169ra–189vb); Pseudo-Aristotle, *De coloribus* (190r–195v); Pseudo-Aristotle, *De bona fortuna* (195v–197v); Pseudo-Aristotle, *De lineis indivisibilibus* (198r–201r); Pseudo-Aristotle, *De inundatione Nili* (201r–202v); ‘Incipit summa de anima in primo ponitur diffinitio. Anima actus primus corporis phisici ponitur vitam...’ (203r–209r); Costa ben Luca, *De differentia spiritus et anime*, prologue (209r–209v); Aristotle, *Ethica ad Eudemum*, excerpt VII.15 (209v–210v); ‘Magna dubitatio est apud multos utrum stelle habeant dominium artandi liberum arbitrium...’ (210v–213v); ‘Liber introductorius in artem loyce demonstrationis collectus Amamehi discipulo Alchimti (?) philosophi. In nomine piissimi et misericordissimi Dei, postquam iam locuti sumus de predicabilibus...’ (214ra–218ra); Alfarabi, *De intellectu* (218ra–220va); Aristotle, *De motu animalium* (220va–223ra); Pseudo-Aristotle, *De pomo* (223ra–225vb); Pseudo-Aristotle, *Secreta secretorum*, beginning only (225vb); ‘Oculus videt, id est recipit formam visibilis...’ (226ra–244v); Hermes, *Centiloquium*, chs 41–87, added (244vb–245vb).

Bibl. *ALC*, I.2, 829–30 (no. 1185); Kristeller 1963–1992, IV, 628; Lemay 1999, I, 421; J. F. Sáez Guillén, P. Jiménez de Cisneros Vencelá, *Catálogo de manuscritos de la Biblioteca Colombina de Sevilla*, Sevilla, 2002, I, 628–31.

63v–120v ‘Incipit Centilogium Ptholomei ad iudicia astrologie [title in upper margin, hand of the scribe]. Prima [title in margin, probably by the scribe]. <S>cientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... (64r) Mundanorum mutatio ad hec et ad illud corporum supercelestium... (64v) <D>octrina stellarum ex te et illis est. Nec est doctrina in ea ut prophetet formam... (65v) <D>ixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... <I>dem dixit Ptholomeus, ex te et illis, significat quod qui res futuras scire desiderat — (120r) Si vero fuerit ex laudabili, amittet. Cum comisserit dominus [text continued from here by another hand] secunde domino ascendentis dispositionem — unicuique signo 24 dies et tertia diei fere et mensis solaris...’
 = **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). The preface occurs between the three propositions and the commentary of v. 1. The scribe stopped copying in the middle of the proposition of v. 85 (f. 120r) and another hand (15th c. acc. Minio-Paluello) resumed and filled in the rest of f. 120r and f. 120v with the end of v. 85 and v. 86–87 in Plato of Tivoli’s translation only. The text breaks off mid-sentence

towards the end of the commentary of v. 87 at the bottom of f. 120v, due to lost folia. Marginal corrections by the scribe. Glosses by the same 15th-c. hand from f. 113r onwards.

Seville, Biblioteca Capitulare y Colombina, 7-7-12

s. XVI¹ (in or before 1531). **Or.:** perhaps Venice, where the MS was bought in 1531, cf. added note f. 100v: 'Este libro costó en Venecia 34 beços postrero de março de 1531 y el ducado de oro vale 280 beços.' **Prov.:** Ferdinand Columbus (d. 1539) (ex-libris inner front cover).

Paper, 100 f., a single neat hand (and not 'varias manos' as in Sáez Guillén/Jiménez de Cisneros Vencelá).

Astronomy: Campanus of Novara, *Theorica planetarum* (1r–51v); Johannes de Harelbeke, *Tractatus de spera solida* (52r–64v); astronomical note 'Hic circinus est maxime conveniens ad designandum circulos...' (65r); 'Demonstrationes theorice planetarum. Aux et oppositum augis centrum terre...' (68r–78r); **Ptolemaica** (78r–92r); Franco de Polonia, *Tractatus de turketo* (92r–94v). Blank: 65v–67v, 95r–100v.

Bibl. Kristeller 1963–1992, IV, 628; J. F. Sáez Guillén, P. Jiménez de Cisneros Vencelá, *Catálogo de manuscritos de la Biblioteca Colombina de Sevilla*, Sevilla, 2002, I, 690–91.

78r–92r 'Planispherium Ptholomei quod Massalem in Arabicam transtulit. Prohemium est ante: Incipit quemadmodum Ptholomeus. Cum sit possibile, Iesure, et plurimum quod necessarium ut in plano represententur circuli in spheram corpoream incidentes — (90v) cum ipsis circulis tropicis et cum circulis meridianis signa distinguuntibus. Explicit 1143 anno kal. Iunii Toleti translatus. S. Abualzazim Massalem filius Hameti. Capitulum quod non est de libro quod edidit Abualzazim Maslem filius Hameti. Dixit Massalem filius Hameti: Iam rememoratus est Ptholomeus in hoc libro — tibi quod volueris de scientia tabularum. Et laus sit Deo creatori gentium qui regnat in seculo seculorum.'

= **Ptolemy, *Planispherium*, tr. Hermann of Carinthia (A.6.1)**, Class II. Translator's preface omitted (though known to the scribe, cf. 78r); text, 78r–90v; Maslama's Extra Chapter, 90v–92r. No glosses.

Seville, Biblioteca Capitulare y Colombina, 7-7-30

s. XV (f. 1–109 appear to have been copied partly in 1424 and in 1448). **Or.:** Padua for f. 1–109, cf. f. 89r: 'Gilbertus de Olandia studens in medicinis Pad<ue> scripsit et complevit die 5^o Ianuarii 1424 Pad<ue>' and f. 100r: 'Expliciunt demonstrationes Blasii de Parma super theorica planetarum copulate (!) per ipsum Padue anno domini 1448 d... (?) ibidem legeret generaliter (?) etc.' **Prov.:** the MS was bought in Rome in 1530 (cf. f. 169v: 'Este libro costo en Roma 60 quatrines a 28 de setienbre de 1530 y el ducado d'oro vale 420 quatrines'); Ferdinand Columbus (d. 1539) (ex-libris f. 1r).

Paper, 169 f., two contemporary hands (f. 1–109 and 112–66), reserved initials.

Astrology and astronomy: Pietro d'Abano, *Lucidator dubitabilium astronomie* (1r–29r); Antonius de Monte Ulmi, *De iudiciis nativitatum* (32r–54r); 'De forma nati. Difficile est ad iudicandum de forma nati propter causas alias...' (60r–80v); 'Quoniam secundum philosophum in principio medicine sue omnes homines natura scientie desiderant...' (82r–89r); Blasius of Parma, *Demonstrationes in theorica planetarum* (92r–100r); Johannes de Harelbeke, *Tractatus de spera solida* (100r–109v); Pietro d'Abano, *De motu octave sphere* (112r–118r); **Ptolemaica (118v–144v, 144v–145r and 145r–145v)**; historical notes mentioning Padua, Rome and the year 1227 (146r); notes 'Plures experti sunt sapientes hos tres dies anni in inceptionibus operum...' (146r); Albumasar, *De electionibus liber* (146v–166r); table of contents (169v). Blank: 29v–31v, 54v–59v, 81, 89v–91v, 110–111, 166v–169r.

Bibl. Lemay 1999, I, 272–74; J. F. Sáez Guillén, P. Jiménez de Cisneros Vencelá, *Catálogo de manuscritos de la Biblioteca Colombina de Sevilla*, Sevilla, 2002, I, 711–12.

118v–144v ' <C>ommentator libri centum verborum Ptolomei, qui dicitur fuisse Haly philosophus, ait: Dixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... <S>cientia stellarum ex te et illis est. Hic docetur quomodo astro<logus> iudicare debeat et qualiter iudicium factum per astronomiam sit intelligendum. Astrologus, id est astronomus, quia astronomus tantum dat iudicia et forte translator vel scriptor peccavit, non debet dicere rem specialiter sed universaliter... Glosa. Scientia stellarum dividitur in duo, in astrologiam et astronomiam, quarum utraque habet suam theoricam et suam practicam. Practica astrologie consistit in operatione tabularum, astrolabii, armille et aliorum instrumentorum ad hoc factorum, per que instrumenta habetur notitia motuum superiorum tam celorum quam planetarum et circularum et differentia eorundem motuum per quam scitur quia sic est. Sed scientia per quam scitur causa quare sic est dicitur theorica astrologie, que consistit in probationibus demonstrativis, sicut docet Ptolomeus in Almagesti. Practica vero astronomie consistit in dandis iudiciis de questionibus factis, ut si respondet quid planetis sic vel sic se habentibus hoc eveniet, et dicat sic, et non causam quare. Et hec scientia datur in libris iudiciorum. Sed theorica astronomie consistit in assignatione causarum quare planetis sic se habentibus hoc eveniet, ut quando iudicium dans recurrit ad naturas et complexiones signorum et planetarum faciendo collationem inter illas, sicut docet Albumasar. <E>xpositio primi verbi. Quod dixit Ptolomeus, ex te et illis est, significat quod qui res futuras prenoscere dederat (!) — Et ego Deum deprecor ut te dilligat. Perfecta est huius libri translatio 17 die mensis Martii, ... (?) mensis Gamedi secundi, anno Arabum 520 et Deo gracias. Amen. Explicit liber centum verborum Ptolomei sive Centiloquii cum commento Haly Deo dicamus gracias.'

= **Abuafar Hamet filius Joseph, (Commentum in Centiloquium), tr. Plato of Tivoli (C.3.1.1)**, interspersed with original remarks throughout and especially with a longer gloss in v. 1 between the proposition and the commentary ('Glosa. Scientia stellarum — sicut docet Albumasar'). The

opening of v. 1 ('Hic docetur quomodo — scriptor peccavit') is also original. The same original remarks occur in MS $\rightarrow$ Dublin, TC, 397. A few glosses by the scribe.

- 144v–145r ' <D>ixerunt Pto<lome>us et Hermes quod locus Lune, scilicet signum, gradus et minutum in quibus erat — expertus fuit multociens.'
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.
- 145r–145v ' <P>tolomeus dixit quod stelle cum caudis sunt novem — et divitibus aparebit.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

St Florian, Stiftsbibliothek, XI.619

s. XV^{med}, most of the MS was copied in 1446 and 1447 (see f. 19v: '1447'; 168v: 'Anno 1446'; 186r: '1447', 203rb: 'Anno 1447'; computus table 1446–1492 f. 29v–30r; table of eclipses 1448–1462 f. 204v), with numerous additions in the same hand, two of which are dated 1453 (f. 83r) and 1461 (f. 85r). **Or.:** probably Regensburg, mentioned several times, including f. 81r, 84r, 86v and 186r. **Prov.:** mention of a 'Fr<ater> Sebastianus Holkodt', inner back cover; monastery St Florian.

Paper, 240 f., a single hand.

Computus, astronomy, mathematics and astrology. Practitioner's handbook made of texts, excerpts and notes: notes of astronomy and computus (1r–2r); John of Gmunden, *Kalendarium* 1439–1514 (2v–19v); notes of computus (20r–20v); astronomical tables for Reichenbach 1433 with canons 'Ad inveniendum medium motum Solis vel alterius planete...' (21r–28v); Petrus de Rosenheim, *Computus dictus radicalis* (29r–33v); Sacrobosco, *De sphaera* (34r–60r), with astronomical diagrams and notes (60v–62v); *Theorica planetarum Gerardi* (63r–78v); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (78v–81r); 'Demonstratio bona. Si in aliquot puncto quod tamen distat a circumferentia alicuius circuli...' (81v–82r); ***Ptolemaica* (82r)**; astronomical notes 'Item pro inveniundo augmentum longioris diei...' (82v–83r); 'Magnus Nemo. Vir quidam erat in oriente nomine Nemo...' (83v–84r); notes and tables of computus (84v–86r); historical notes about Regensburg (86v); John of Ligneres, *Algorismus de minutiis* (87r–94r); arithmetical notes and enigmas, partly in German (94r–117v); *Liber theoreumacie* (118r–132r); notes of arithmetic and geometry (132r–134r); ***Ptolemaica* (135ra–139va)**; 'Hec sunt longitudes civitatum hic nominatarum ab occidente...' (139vb); geographical coordinates of cities (140r–140v); Peter Peregrinus of Maricourt, *De magnete* (141ra–144ra); notes on celestial distances (144rb); notes on the biblical books (144v–146v); 'Mors. Hoc tibi sit menti carnem superare volenti...' (146r–146v); '12 signa in celo. Virgo habet stellam in capite...' (147r); Messahallah, *Epistola de rebus eclipsium* (147v–148v); Alfraganus, *De scientia astrorum*, excerpts (148v–150r); 'De festivitibus. Legales festivitates erant septem...' (150v–152r); Alcabitus, *Introductorius* (152r–168v); astronomical notes (168v–169r); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (169va–186r); table: 'Ad Ratisponam latitude

49 graduum pro quadrante' (186r); astrological notes 'Item Saturnus superior planetarum frigidus est et siccus...' (186v); John of Gmunden, *Compositio quadrantis novi seu magni cum eius practica* (187ra–200ra); John of Gmunden, *Tractatus de compositione chilindri* (200rb–203rb), with tables (203v); notes on eclipses (204r); table of eclipses 1448–1462 (204v); '12 questiones de pixide', in German (205r); astrology 'Pro flegbothomia (!) facienda. In Cancro valet pro iuvenili...' (205v–206r); Fridericus Amann of Regensburg, *Algorismus Ratisbonensis* (206v–225v); notes of arithmetic in German and computus table 1493–1506 (226r); geometry 'Quoniam circa geometriam multi propter raritatem et obscuritatem...' (226v–230r); note in German (230v); 'De mensurationibus rerum inferiorum et primo de mensuratione rerum altitudinum. Si vis ergo scire altitudinem alicuius rei...' (231r–234r); 'Item dimensione cum quadrante...' (234v–235r); onomancy 'De morte duorum in matrimonio. Sume nomen baptismatis utriusque senti in alfabeto...' (235v); astrological text on the planets in German (235v–236r); 'Gloriosus Deus qui in principio cuncta creavit ex nihilo solo verbo...' (236v–238v); alphabetical list of food products and cooking utensils (239r); 'Pro expeditione specierum algorismi de integris per denarios proiectiles...' (239v–240r); 'Primum clima dicitur Mathoal...' (240v). Blank: 134v.

Bibl. A. Czerny, *Die Handschriften der Stiftsbibliothek St Florian*, Linz, 1871, 211–12; K. Vogel, *Die Practica des Algorismus Ratisbonensis. Ein Rechenbuch des Benediktinerklosters St Emmeram aus der Mitte des 15. Jahrhunderts nach den Handschriften der Münchner Staatsbibliothek und der Stiftsbibliothek St Florian*, München, 1954, 24.

82r 'Nota secundum Ptholomeum de cometa. Ptolomeus in Centilogio dicit sic: Stelle cum caudis sunt 9, prima dicitur veru — in regibus et divitibus apparebit.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

135ra–139va 'De tribus corporibus solidis. Quia tria corpora solida particularium — quia quod modicum distat nichil distare videtur. Explicit tractatus de quantitate trium solidorum magistri Schindil compilatus anno 1420.'
= **Johannes Andree Schindel, *Tractatus de quantitate trium solidorum* (C.1.15)**. No glosses.

St Petersburg, Biblioteka Akademii Nauk, IV-1-935 [Plate 15]

s. XV² (copied between c. 1462 and 1475, except f. 40r–40v, slightly older). **Or.:** autograph of Regiomontanus (except f. 40r–40v). **Prov.:** Bernhard Walther; Nürnberg, Ratsbibliothek, by 1522; Willibald Pirckheimer in 1524; Christoph Joachim Haller von Hallerstein c. 1750; Christoph Gottlieb von Murr in 1799 (ex-libris, inner front cover and f. 1r); Alexander I of Russia in 1805; Moscow, university library; St Petersburg, Pulkovo Observatory, c. 1850.

Paper, 302 f., a single hand (Regiomontanus), except for f. 40r–40v.

Ptolemaica (2r–302v and 40r–40v). Blank: 1, 39v.

Bibl. E. Zinner, 'Einige Handschriften des Johann Regiomontan (aus Königsberg in Franken)', *Historischer Verein, Bamberg, Berichte* 100 (1964), 315–23; 318–21; M. Shank and

R. L. Kremer, *Regiomontanus: Defensio Theonis*, published online (2009) at <http://regio.dartmouth.edu/about/about-manuscript.html>.

- (2r–302v) ‘(37r) Nuper quosdam offendi commentarios in magnam Claudii Ptolemaei compositionem inclito ac Christianissimo Pannoniarum regi Matthiae autore Georgio Trapezuntio inscriptos — (39r) ab iniuriis distat abstinere siquando alieno indire peccata sua recognoverit. (2r) Defensio Theonis contra Trapezuntium [title in upper margin]. In prefatione Leonem Iudeum carpens inquit: Nec potuit percipere dispositiones aeris propinquitatem et remotionem — clientulo indicatam tuo declinare velis. Hinc procul fugite quicumque sideralem queritis disciplinam commentariosque mendaces una cum autore suo Georgio Trapezuntio sinite valere.’
= **Johannes Regiomontanus, *Defensio Theonis contra Trapezuntium* (C.1.23)**. Preface, 37r–39r; Book I, 2r–17r; II, 17v–29v; III, 29v–36v and 40v–50r; IV, 50v–57v; V, 57v–92r; VI, 92r–144r; VII, 144r–147v; VIII, 147v–150v; IX, 151r–186v; X, 186v–190r; XI, 190r–207r; XII, 207r–244r; XIII, 244r–302v. Corrections by Regiomontanus. The preface was copied in the middle of Book III, 37r–39r. F. 39v is blank.
- 40r–40v ‘Epistola Georgii Trapezuntii in Commentatum Almagesti [title added in upper margin by another hand]. Ad Christianissimum inclitumque Pannoniae regem Mathiam Georgii Trapezuntii commentariorum ad Claudii Ptholomei Magnam compositionem praefatio. Multa sunt, illustrissime rex, que me hortantur atque impellunt ut toto ex animo Deum orem — aggrediemur alia in nominis tui rerumque abste gestarum gloriam immortalem.’
= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.1.19)**. Preface to Matthias Corvinus only.

St Petersburg, Biblioteka Akademii Nauk, F. 8 (XXA^b/III¹)

s. XIII (second half for f. 2–141 and second quarter for f. 142–253 acc. Georges; Lemay dates f. 2–141 to the 12th c. and f. 142–253 to the first half of the 13th c., while Pedersen and Kisseleva/Stirnemann date the whole MS to the 13th c. and Šangin to the 13th or 14th c.). **Or.:** Italy (Kisseleva/Stirnemann and Georges; Spain acc. Šangin and Lemay; the Italian origin is also supported by the horoscope of revolution for 1178 for Reggio in Calabria, f. 77rb). **Prov.:** Johannes Kepler (acc. Kisseleva/Stirnemann); Georg Wolfgang Krafft (cf. f. 1r), whose son bequeathed the MS to the Academy of Science of St Petersburg in the late 18th c.

Parchment, 253 f., MS made of two parts (f. 2–141 and 142–253), each copied by two hands (f. 2–77, 78–141, 142–252r and 252v–253r), with texts and notes added by a late 13th- or early 14th-c. hand in blank spaces (47va–47vb, 69v, 77rb, 77va, 86v, 93r, 94r, 118rb–118vb, 140rb–141vb and 253ra–253rb). One or several folia may be missing between f. 18 and 19.

Astrology, astronomy and medicine: table of contents, 15th c. (inner front cover); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (2ra–12ra); *Theorica planetarum Gerardi* (12va–18rb); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum*, end

missing (18va–18vb); Pseudo-Thebit Bencora, *De motu octave spere* (19ra–20ra); **Ptolemaica (20ra–21va)**; Gergis, *De astronomie discipline peritia* (21vb–24ra); Geminus of Rhodes, *Elementa astronomie*, attr. Ptolemy: ‘Explicit quod abbrevatum est de libro introductorio Ptholomei ad librum suum nominatum Almagesti’ (25ra–35va); table: elections from the aspects of the Moon with the other planets (36r); ‘Cum fuerit Luna cum Capite vel Cauda in uno signo est dies emenda...’ (36r); ‘Ut mos est philosophorum in nativitate atque universali interrogatione...’ (36v); table for computing the zodiacal position of the Moon (36v); Alcabitius, *Introductorius* (37ra–47rb); medical text ‘Primus medicorum omnium Ypo<cras> docuit...’, added (47va–47vb); Zael, *Liber iudiciorum* (48ra–69vb); Messahallah, *Liber receptionis* (70ra–75vb); Messahallah, *Epistola de rebus eclipsium* (76ra–77ra); horoscope of revolution for 1178 for Reggio in Calabria, with note (77rb); calculus of the victorious and the vanquished ‘Si aliquis scire voluerit quis de duobus contemplationem habentibus vincit...’ (77va–77vb); Isaac Judeus, *Liber urinarum*, preface (78ra–93rb); astronomical figure with note (93v); ‘De naturis ciborum custodiende...’ (94ra–94rb); Isaac Judeus, *De dietis universalibus* (94va–118rb); Isaac Judeus, *Diete particulares* (119ra–140rb); **Ptolemaica (142ra–152va)**; astronomical/astrological Arabic-Latin lexicon ‘Salçafea id est tabula vel tabula perforata...’ (152va–152vb); Messahallah, *In pluviis et ventis epistola* (152vb–154vb); Hermann of Carinthia, *De occultis* (155ra–169vb); interrogations ‘Si vis scire latronem. Si vis scire latronem qui furtum fecit...’ (170ra–171va); **Ptolemaica (171va–172rb)**; interrogations ‘An infirmus liberatur vel non. Si vis scire an infirmus moriatur si ipse est missus...’ (172rb–173ra); **Ptolemaica (173ra–179rb)**; interrogations ‘Cum aliquid vis emere. Cum aliquid vis emere, partem fortune merge bonis stellis amico respectu...’ (179rb–180va); Albumasar, *Introductorium maius*, tr. John of Seville (180va–252rb); **Ptolemaica (252va–253ra)**. The texts and notes added c. 1300 deal mainly with medicine, except for a list of 45 astrological books related to the *Speculum astronomie* on f. 253ra–253rb. Blank: 1r–1v (except for a note f. 1r), 24v.

Bibl. M. A. F. Šangin in *Catalogus Codicum Astrologorum Graecorum*, XII, Bruxelles, 1936, 205–10; O. Pedersen, ‘The Origins of the “Theorica Planetarum”’, *JHA* 12 (1981), 113–23; 121–22; Kristeller 1963–1992, V, 174; Lemay 1995–1996, IV, 84–97; Lemay 1999, I, 230; L. Kisseleva, P. Stirnemann, *Catalogue des manuscrits médiévaux en écriture latine de la Bibliothèque de l’Académie des sciences de Russie de Saint-Petersbourg*, Paris, 2005, 116–19; Georges (forthcoming).

20ra–21va ‘<E>quator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebit filii Chore de his que indigent expositione antequam legatur Almagesti.’
= Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti (C.1.1)*. No glosses.

142ra–152va ‘Liber Ptho<lome>i expositus Abugafare in quo sunt 100 verba. Dixit Ptho<lomeu>s: Iam premisi libros in quibus tractavi de impressionibus planetarum in hoc mundo composito... Dixit P<tholomeus>: Sciencia astrorum ex te et illis, nec convenit peritum... Quod dixit P<tholomeus>, ex te et illis, significat quod qui res futuras prescire — acciditque in Egypto tunc quidquid dixit Pth<olomeu>s. Hoc est quod ego malui exponi in hoc libro et perfecta est eius expositio.’

- = **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), ‘**Iam premisi**’ version (C.3.1.4). Glosses by at least two later hands, substantial on f. 142r–143r, 147r and 148v.
- 171va–172rb ‘Artem artium astronomiam ingredientibus videndum est quid sit ipsa ars — hiis ita prelibatis doctrina tabularum primo docenda est, et hoc est quod intendebamus.’
= (*Commentum in Iudicia*) (C.4.6), preface only. No glosses.
- 173ra–179rb ‘Incipit liber qui vocatur Ptholomeus. Signorum alia sunt masculini generis, alia feminini — procul dubio iudices eos vitales esse.’
= **Pseudo-Ptolemy**, *Iudicia* (B.3). Two sets of glosses by a later hand f. 175v.
- 252va–253ra ‘Quidam princeps nomine Albugafe in libro suo quem scientiarum electionum et verborum nominavit — de scientia stellarum et motuum qui sunt in celo conscripsit etc.’
= **Ptolemy**, *Almagesti*, tr. **Gerard of Cremona** (A.1.2), Preface only. Glosses by a later hand f. 252va [ed. Lemay 1995–1996, IV, 193–94].

St Petersburg, Biblioteka Akademii Nauk, Q. 537

s. XVIⁱⁿ (copied in 1512, cf. f. 55r, 65r, 119r, 127v, 135v, 152v, 169r). **Prov:** the MS belonged to the Gersdorffsche Bibliothek, founded by Hans von Gersdorff in Bautzen (Saxony) in 1681 (cf. ex-libris ‘Graeflich Gersdorffsche bibliothek zu Baruth [Baruth bei Bautzen]’, on a sheet attached to the front cover).

Paper, I + 170 f., a single neat hand.

Astral magic, mostly rare or unidentified texts: table of contents (Ir); ‘Incipit liber occultus et preciosus Geberi philosophi in astronomia expertissimi de operatione figurarum admirabili septem planetarum quem transtulit Ioannes Hispalensis. Antiqui sapientes et philosophi in astronomia...’ (1r–24r); Thebit Bencora, *De imaginibus*, variant version ‘Incipit liber prestigiorum Thebit Benchorat viri sapientis et in magicis expertissimi de imaginum compositione. Dixit Thebit filius Chorat...’ (25r–37v, ed. Burnett, 42–50); *Ptolemaica* (38v–55r); ‘De compositione imaginum et experimento cum operatione excerptum de libro praestigiorum Nesbari expertissimi magi. Cum volueris aliquid operari in compositione imaginum...’ (56r–57v); Hermes, *De imaginibus et horis* (58r–65r); ‘Incipit liber Baleni de compositione imaginum septem planetarum. Opus profecto mirandum et multorum effectuum. Dixit Balenus sapiens: Magna est virtus imaginum...’ (66r–84r); ‘Incipit liber Balenii sapientis de sigillis planetarum. Quoniam necessarium est volentibus in compositione imaginum...’ (85r–106v); ‘Incipit libellus Behensatri viri sapientis et regis in India qui fuit in magicis expertissimus de sigillis planetarum. Saturnus habet in metallis plumbum...’ (107v–111v); ‘Incipit libellus de annulis planetarum quem fecit sapiens et in magicis expertissimus vir Beyelus omnium doctissimus. Septem sunt stellae erratiles...’ (112v–119r); *Ptolemaica* (120r–127v); ‘Incipiunt sigilla duodecim signorum Arnoldi de Villanova viri in mathematicis et magicis operationibus expertissimi. Antiquorum solertia coelum...’ (128v–135v); ‘Incipit secretum Hermetis de compositione

imaginum secundum duodecim horas diei et noctis. Dixit Hermes: Quicumque voluerit in magicis operationibus...' (136v–169r); 'Nota quod Hermes ab gente Iudaeorum vixit in Aphrica...' (169v); 'Pro columbis capiendis. In die et hora Mercurii...' (169v–170v). Blank: 24v, 38r, 55v, 65v, 84v, 107r, 112r, 119v, 128r, 136r.

Bibl. I. N. Lebedeva, *Rukopisi latinskogo alfavita XVI–XVII vv.*, Leningrad [St Petersburg], 1979, 105–08; Kristeller 1963–1992, V, 175; C. Burnett, 'Thābit ibn Qurra's *On Talismans* Between the Middle Ages and the Renaissance, and Between the Science of the Stars and Magic', *BC* 27 (2021), 23–50: 34–37.

38v–55r 'Incipit libellus Ptolemaei, inter magos expertissimi, de compositione imaginum ad operationem mirabilium effectum. Ars imaginum est multiplex de qua multi multa scripserunt et varios modos tradiderunt faciendi et operandi in eis. Orientales autem et Indi... Imago ad ariendum furem sive latronem a domo tua — et habebit horribilia somnia, quod saepius probavi. Adest finis libelli imaginum quem ego non Ptolomaei sed potius Budasari, viri in magicis doctis, crediderim, ad Ptolemaeum quempiam, ita enim in vetustissimo exemplari legere me memini. Anno 1512, 3 Octob<ris>.'

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, reworking. No glosses.

120r–127v 'Incipit liber Ptolemaei de impressionibus imaginum annulorum sigillorum secundum facies duodecim signorum zodiaci. Incipiamus tractare de compositione et impressione sigillorum annulorum — vel ex argento vel mastice. Et sunt qui dicant tam auferre et mitigare crudelitatem. Et est operatio eius in magicis experimentis et effectibus valde mirabilis. Finis libri Ptolemaei de sigillis et impressionibus imaginum secundum solum in duodecim signis. Anno 1512, die Ursulae.'

= **Pseudo-Ptolemy, *Liber de impressionibus imaginum, anulorum et sigillorum secundum facies duodecim signorum zodiaci* (B.16)**. No glosses.

† **St Petersburg, Biblioteka Gosudarstwiennaja Publicznaja im. M. J. Sałykowa-Szczedrına [now Rossijskaja Nacionalnaja Biblioteka], Lat. F. XVII.74**

s. XV². **Or.:** probably the University of Cracow and perhaps Albertus de Brudzewo himself, cf. f. 1r: 'M. Alberti de Brosevo, profess. Cracov., collectanea astronomica et astrologica 1460', in a 15th-c. hand (the date 1460 seems however very early for Albertus de Brudzewo, whose date of birth is not known precisely but generally considered to be c. 1445). **Prov.:** 'Liber M. Caspar Weygil' (given twice, on the inner front cover and on f. 1r, in scripts contemporary with the MS). The MS was part of the Załuski Library (Warsaw), which was confiscated and transferred to St Petersburg in 1794, transferred back to Warsaw after the Revolution in 1922 and destroyed in October 1944. The present description relies essentially on Birkenmajer, who saw the MS in St Petersburg in 1908.

Paper, 238 f.

Astronomy, astrology and magic. Birkenmajer describes the contents as follows: '1. Tabula mediarum coniunctionum et oppositionum solis et Lune (fol. 1'). – 2. Tabule latitudinum lune in eclipsibus (fol. 17). – 3. Tabula distantie visibilis coniunctionis a vera (fol. 43'). – 4. Tabula sinus 6,000.000 partium (fol. 70). – 5. Tabula ad sciendum per d [?] quanta mora est creature (fol. 77'). – 6. Tabula latitudinis quinque planetarum (fol. 94). – 7. De nativitate hominis liber, quem dominus Albertus Broseuo [Brudzewo] Cracouiensis operose collegit et fideliter (fol. 104). – 8. De genitura (fol. 127 "Circulum pro exitu geniture") [*Ptolemaica*]. – 9. Tabulae similes ac sub nr. 5 (fol. 136). – 10. Tabula continens medium motum planetarum (f. 179). – 11. Flores doctrine celestis, seu Cabbala secretissima (fol. 189 "In nomine Domini nostri Jesu Christi...").' The last item probably corresponds to John of Morigny's *Liber florum celestis doctrine*.

Bibl. Birkenmajer 1924, 101–03; Markowski 1990, 9 and 314 (wrong shelfmark 'XVIII. 74. Z. '); *The Inventory of Manuscripts from the Żaluzki Library in the Imperial Public Library*, eds O. N. Bleskina, N. A. Elagina, Warszawa, 2013, 136 (no. 696). My thanks to Irina Galynina for help regarding the history of this MS.

127r 'Circulum pro exitu geniture...'
= **Albertus de Brudzewo**, *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17), apparently as part of the treatise of nativities attributed to Albertus de Brudzewo starting on f. 104.

St Petersburg, Rossijskaja Nacionalnaja Biblioteka, lat. Q.III.636

s. XV². **Prov.:** 'Ex musaeo Petri Dubrowsky' (f. 1r).

Paper, 57 f., a single hand.

Astrology: *Ptolemaica* (1r–46v); George of Trebizond, *Liber de antisciiis et cur astrologorum iudicia plerumque fallant* (46v–57v).

Bibl. Monfasani 1984, 23–24; Kristeller 1963–1992, V, 187.

1r–46v '... Centiloquium [beginning of title illegible, due to the torn top of the page]. <L>ibrum Claudii Ptolomei mihi, Alfonse, rex inclite, traductum, quaem vulgo Centiloquium ipse fructum appellat... (2r) <I>am pridem perutiles ad providendum operationes stellarum, o Sire, quas in hoc composito efficiunt mundo exposuimus... <L>ibellus hic quem de Greco traductum nomini tuo dedicavimus, illustrissime rex... (3r) <A>bs te et a Scientia, non est enim possibile ut huius scientie professor particulares rerum ideas prevideat... Abs te et a scientia. Abs te, inquit, hoc est a quadam insita vi animi et ingenio et a scientia nature stellarum precognitio fit — ut sicut raro apparent, sic inconsueta significare videantur.'
= **George of Trebizond**, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11), George of Trebizond's preface, 1r–2r; author's preface,

2r; commentary on author's preface, 2r–3r; text and commentary in alternating sequence, 3r–46v. A few short marginal notes by the scribe and by a later hand, some more substantial (f. 21r, 24r, 33v, the latter quoting Pico della Mirandola). Monfasani notes that the text differs from that of the early printed editions.

St Petersburg, Rossijskaja Nacionalnaja Biblioteka, lat. Q.XVIII.116

s. XV² (copied in 1474, cf. f. 36v: 'Et t<antu>m de secundo quadripartiti sapientis Ptholomei anno 1474'). **Prov.:** Germany.

Paper, 72 f., a single hand.

Ptolemaica (single text), except for notes by the scribe f. 1r: 'Circa primum librum sapientis Ptholomei nota. Cum (?) astronomia sanctis patribus odiosa fuit... De inventoribus Astronomie et Astrologie. Refert dominus Albertus in scripto super Almagesti Ptholomei — locuti ymaginati sunt.' Blank: 1v.

Bibl. O. Bleskina, *Catalogus codicum manuseriptorum latinorum qui in Bibliotheca Publica Petropolitana asservantur: Jurisprudencia, Philosophia, Scientia, Monumenta litterarum, Ars*, St Petersburg, 2011, 305 (no. 783).

2r–72v 'Capitulum primum primi tractatus libri quatuor parcium Ptholomei Velodiani. Res, o Misori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due. Una quarum est que debet in ordinacione et virtute preponi et est hec ars qua duorum luminarium et quinque planetarum figure sciuntur secundum motum suum — Et iudicabimus dispositores temporum particularium in iuvando istud vel ei nocendo...'
= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**, without the translator's preface and without the last paragraphs of Book IV. I, 2r–21r; II, 21v–36v; III, 37r–59v; IV, 60r–72v (abrupt end in the middle of IV.10 at the bottom of the page). Haly's commentary has been copied in the margin by the scribe, but incompletely and in a chaotic manner. This commentary breaks off in III.10 (f. 45r) and there are no more marginal notes thereafter.

Stuttgart, Württembergische Landesbibliothek, Math. fol. 24

s. XV² (c. 1467–1468). **Or.:** dedicated to Matthias Corvinus (1443–1490), with autograph corrections by George of Trebizond. **Prov.:** Joachim Camerarius, who gave the MS to Erasmus Neustetter in 1582 (f. Iv: 'Bibliothecae celebri Neusteterianae offert hunc librum Iohachimus I. F. Camerarius, reipublicae Norimbergensis medicus, anno Christi MDLXXXII, mense Maio'); collegiate church of Comburg (f. 1r: 'Ex bibliotheca ecclesiae collegiate S. Nicolai Chombergensis').

Paper, I + 312 f., a single neat hand, reserved initials.

Ptolemaica (single text). Blank: Ir.

Bibl. Norlind 1966, 22; Kristeller 1963–1992, III, 705; Monfasani 1984, 52.

- 1r–312v ‘Ad Christianissimum inclitumque Pannonie regem Mathiam Georgii Trapesuntii commentariorum ad Claudii Ptolomei Magnam compositionem prefatio. Multa sunt, illustrissime rex, que me hortantur atque impellunt ut toto ex animo Deum orem... (2r) Georgii Trapeçuntii ad libros Magne Ptolomei compositionis introductio. Capitulum primum de divisione omnis circuli et precipue çodiaci. <Q>uoniam libros Ptolomei de motibus celestium, quibus nescio an quicquam altius ac rationis et scientie via certius inveniri aut fingi possit ex Greca lingua in Latinam vertimus... (18r) Expositio Magne compositionis Ptolomei a Georgio Trapeçunda facta incipit. <C>oditis huius quem exposituri gratia salvatoris sumus volumina librique XIII sunt, in quibus Ptolomeus intendit erraticarum stellarum et fixarum motus invenire — (310v) maius inter observationes temporis spatium exigit quam vita hominis sit. Explicit’ (followed by diagrams and notes).
= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.1.19)**. Preface to Matthias Corvinus, 1r–1v; Introduction, 2r–17v; Book I, 18r–47r; II, 47r–80v; III, 80v–98v; IV, 98v–114r; V, 114r–150v; VI, 150v–182r; VII, 182r–184v; VIII, 184v–191r; IX, 191v–217v; X, 217v–234r; XI, 234v–250r; XII, 250v–271v; XIII, 271v–310v; diagrams and notes, 311r–312v. No glosses. A few autograph corrections by George of Trebizond.

Toledo, Archivo y Biblioteca Capitulares, 98-18

s. XVIII. **Prov.:** cathedral of Toledo.

Paper, 91 f., a single neat hand.

Astrology: ***Ptolemaica* (1r–22r)**; Hermes, *Centiloquium* (22r–41r); *Capitula Almansoris* (41r–60r); Ludovicus de Rigiis, *Aphorismi astrologici* (60v–71r); ten astrological chapters ‘1. Planeta in transitu suo per loca...’ (72r–73r); index of the volume (74r–89r). Blank: 71v, 73v, 89v–91v.

Bibl. Millàs Vallicrosa 1942, 155–56; Kristeller 1963–1992, IV, 645; Rinaldi 2002, 112 (no. 12).

- 1r–22r ‘Centiloquium Ptolomei. (2r) A te et a scientia. Fieri enim nequit ut qui sciens est particulares rerum formas pronunciet — sin non moventur provincialis hostis erit. 58. Coniunctionis locum quo in loco — tunc eventus erit.’
= **Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16)**, without the commentary. V. 58, missing in the text, has been added at the end.

Toledo, Archivo y Biblioteca Capitulares, 98-22

s. XIII. **Or.:** English hand acc. Georges, who also notices glosses and added notes by three English hands on f. 63v–64r, 65vb (‘Iste liber debet vendi pro XL sol<idos> Par<isienses>’) and 80vb respectively (addition ‘Secundum Tholomeum...’, see below). At the same time,

Takahashi, 80, remarks that the reworking of Euclid's *De speculis* (f. 87rb–89vb) contains the French words 'esche bien seche' in proposition XXXII. Since this reworking, as well as the reworking of the *Almagesti minor*, on f. 67r–80v, and probably the texts and tables on f. 1r–1v and 91r–114v, are unique to this MS, it is likely that the scribe and the author are one and the same person. This author provides a unique reference to a *De proportionibus* or *Liber proportionum* by one Walter of Flanders (see below), who is probably identical with Walter of Lille, the likely author of the *Almagesti minor*. **Prov.:** this MS most probably corresponds to the 'Liber de celo et de mundo cum comento Averrois' (cf. f. 2r–65v below) listed in the 1280 inventory of Gonzalo Pérez, archbishop of Toledo from 1280 to 1299 (see Hernández/Linehan 2004, 489, no. 36/15); cathedral of Toledo before 1360, when the MS was temporarily confiscated by the royal official Mateo Ferrandes (cf. f. 114v: 'Matheus Ferrandes').

Parchment, 114 f., one main hand, decorated initials.

Astronomy and mathematics: '<M>otuum Solis alius est medius, primum equalis et alius inequalis...' (1ra–1vb, related to f. 104vb–114v below); Averroes, comm. on Aristotle's *De celo et mundo*, tr. Michael Scot (2ra–65vb); Jordanus de Nemore (?), *De proportionibus* (66ra–66rb); '<C>onsequens est ut quasdam propositiones...' (66rb–66va); **Ptolemaica (67ra–80vb)**; 'Secundum Tholomeum in principio Almagesti...' added by a somewhat later hand (80vb); Ametus filius Josephi [Aḥmad ibn Yūsuf], *Liber de proportionibus et proportionalitate* (81ra–84ra); Ametus filius Josephi [Aḥmad ibn Yūsuf], *De arcibus similibus* (84ra–84va); Zenodorus, *De isoperimetris* (84va–85ra); Johannes de Tinemue, *De curvis superficiebus* (85ra–86ra); Theodosius, *De habitationibus* (86ra–86va); *Liber de canonio* (86va–87ra); *De ponderibus Archimedis* (87ra); fragment on the Roman balance 'Queritur in longitudine...' (87ra); Pseudo-Euclid, *De ponderoso et levi* (87ra); Jordanus de Nemore, *Elementa super demonstrationem ponderum* (87ra–87rb); reworking of Euclid's *De speculis* (87rb–89vb, ed. Takahashi); Euclid, *De visu*, incomplete (90ra–90vb); astronomy 'Proppositis (?) duobus triangulis et equalibus...' (91ra–94ra); *Algorismus*, incomplete (96ra–101rb); computus '<Q>uoniam proposito volumini sine compoti doctrina...', incomplete (102ra–102vb); tables of London, incompletely filled (104vb–114v). Blank: 94rb–95v, 100v, 101v, 103r–104r.

Bibl. Millàs Vallicrosa 1942, 202–06; *ALC*, I.1, 860 (no. 1246); Kristeller 1963–1992, IV, 645; Lorch 1992, 419–20; K. Takahashi, 'A Manuscript of Euclid's *De speculis*: A Latin Text of MS 98.22 of the Archivo y Biblioteca Capitulares de la Catedral, Toledo', *SCIAMVS* 2 (2001), 75–143; Zepeda 2018, 60–61; Georges (forthcoming).

67ra–80vb '<O>mnium recte philosophantium verisimilibus coniecturis credibilibus — tenebrarum sic se habent. Explicit liber sextus.'
 = ***Almagesti minor* (C.1.4)**, with significant divergence in Book I (ed. Zepeda, 609–27, under siglum *T*), with references to 'per epistolam Hameti de proportionalitate [= Ametus filius Josephi, see f. 81ra–84ra] et per librum Walteri Flandrensis de proportionibus' (I.7, f. 68ra, ed. Zepeda, 621, lines 398–99) and 'ex libro proportionum Walteri' (I.13, f. 68va, ed. Zepeda, 625, line 542). Walter's work on proportions is probably the *De proportionibus* attributed to Jordanus de Nemore, which immediately precedes the *Almagesti minor* in this MS (f. 66ra–66rb), see Zepeda, 15, 61 and 621 n. 29. Glosses by the scribe or a similar hand.

Torino, Biblioteca Nazionale Universitaria, F V 31 (931)

s. XV^{ex} (1479 given after the explicit). **Or.:** Italy, MS annotated by Giovanni Pontano and Lorenzo Bonincontri.

Paper, 190 f., a single hand.

Ptolemaica (single text). Blank: 181v.

Bibl. Mazzatinti 1892–1926, XXVIII, 96 (no. 931); Rinaldi 2002, 111–12 (no. 11); M. Rinaldi, ‘Un sodalizio poetico-astrologico nella Napoli del Quattrocento: Lorenzo Bonincontri e Giovanni Pontano’, *MHNH* 4 (2004), 221–43: 241 and n. 66.

1r–181r ‘Ioannis Ioviani Pontani liber primus commentationum in centum sententiis Ptolomei ad ill<ustrissimum> principem Federicum ducem Urbini feliciter incipit. Tametsi publicarum rerum administratio, bellique gerendi cura detertere me iure possent, Federice [added above the line] dux fortissime... (2r) Textus Ptolomei. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronuntiet... Commentum Pontani. Nec medici, nec moralis (*corr. ex* morales) philosophi sola est cognitio, sed quaedam etiam operatio — tum stellarum radii vel trahentes eas, vel impellentes pro qualitate aspectus et virium efficacia. Τελωσ. 1479.’

= **Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16)**. A few marginal notes by Giovanni Pontano and Lorenzo Bonincontri.

Torino, Biblioteca Nazionale Universitaria, G II 36 (996) [Plate 16]

s. XV² (1451). **Or.:** George of Trebizond’s notebook, mainly copied by him in Rome. **Prov.:** Domenico Grimani, cardinal of Venice (f. 1r: ‘Liber D. Grimani, Cardinalis S. Marci’).

Paper, 198 f., two hands: I [George of Trebizond]. f. 1–4 and 27–198; II. f. 5r–21v. The MS has been damaged by water, making some parts difficult to read.

George of Trebizond’s notebook: mathematical notes in Greek (1r–4r); theology ‘Queritur primo utrum primum principium...’ (5ra–21va); note ‘De substrahendi proportionem a proportionem...’ (27r); **Ptolemaica** (27r–28r); astrological note on Firmicus Maternus (29r); criticism of Plato’s *Laws* (30r–30v); George of Trebizond, preface to Alfonso of Aragon of his own translation of Demosthenes’s *On the Crown* (31r–33r); George of Trebizond, preface to Alfonso of Aragon of his own translation of Aristotle’s *Rhetorica ad Theodecten* (34v); list of Greek and Latin provinces (38v); **Ptolemaica** (39r–198v). Blank: 4v, 22–26, 28v, 29v, 33v–34r, 35r–38r, 46v–48v, 168v.

Bibl. Mazzatinti 1892–1926, XXVIII, 103 (no. 996); Norlind 1966, 22; Monfasani 1984, 52–53; Kristeller 1963–1992, VI, 224.

27r–28r ‘Averois: Volo ponere ea in quibus reprehendit Geber Hispanen<sis> Ptolemeum in Magna Compositione et correxit, sicut putavit, demonstrationibus suis. Primum in libro primo — ponit eius super Solem.’

= **Averroes**, *(Gebri Hispalensis reprehensiones et correctiones in Ptolomei Magna compositione)* (C.1.18). No glosses.

39r–198v

‘G. Trapezontii ad libros Magne Ptolomei compositionis introductio. Capitulum de divisione omnis circuli et precipue zodiaci. Quoniam libro Ptolomei de motibus celestium, quibus nescio an quicquam altius ac rationis et scientie via certius inveniri aut fingi possit ex Greca lingua in Latinam vertimus... (49r) Cum sepius nobis sanctissimus pater Nicolaus papa quintus immensa Ptolomei de celestium scientia corporum volumina traducere a Greco in Latinum iusserit — (49v) difficiliora solum breviter explanabimus. In primo capitulo primi libri Ptolomeus divisionem philosophie aristotelicam — maius inter observationes temporis spatium exigit quam vita hominis sit. Laudetur nomen tuum... qui me hoc opus in die felici salutis nostre absolvere voluisti, Christe benedicte... tue incarnationis incepti absolviq[ue] novem... mensibus novem diebus 22, cuius rei testis gravissimus... Sed hi liber... Nicolai quinti et consiliis...’

= **George of Trebizond**, *Expositio Magne compositionis Ptolomei* (C.1.19). Introduction, 39r–46r (46v–48v blank); preface to the reader, 49r–49v; I, 49v–66v; II, 67r–81v; III, 81v–91v; IV, 91v–98v; V, 99r–117r; VI, 117v–132v; VII, 133r–133v; VIII, 133v–137r; IX, 137v–149v; X, 150r–159v; XI, 160r–168r (168v blank); XII, 169r–179v; XIII, 180r–198v; colophon, 198v (the colophon, copied at the bottom of f. 198v, is for a great part illegible due to the water damage). Draft version of the text, with numerous autograph corrections.

Uppsala, Universitetsbiblioteket, C 653

s. XIV² (f. 28r–59r appear to have been copied in 1388, cf. f. 59r: ‘Expliciunt canones tabularum illustris principis Alfoncii regis Castelle, quos magister Iohannes de Nokow de Saxonia compilavit et sunt 26 canones scripti anno 1388’). **Or.:** western Germany (cf. f. 233r: ‘Explicit algorismus... Qui me scribebat Henricus nomen habebat, nationis de Ensichshen [Ensisheim, Haut-Rhin]’; see also the note added by an owner (?) of the MS in the bottom margin of f. 227r: ‘Officialis domini de Maspach [Mosbach, Baden-Württemberg], archid<iaconi> ecclesie Herbi<polensis> [Würzburg], datum per copiam sub anno domini M^oCCC^oXLVIII, nos Albertus decanus, custos, cantor, scholasticus’). **Prov.:** Sebastian Mieg of Strasbourg (d. 1609), cf. inner front cover: ‘Ex bibliotheca Sebastiani Miegii’; Johannes Scheffer (d. 1679).

Parchment, 236 f., composite MS made of two elements: I, f. 1–227 (several hands); II, f. 228–235 (two hands).

Astronomy and astrology: *Proportiones competentes in astrorum industria*, ch. 10 (inner front cover); astronomy ‘Contra Ptholomeum et Geber dicit in cursu igitur etc. Nota quod motus stellarum fixarum...’ (1r–1v); Sacrobosco, *De sphaera* (2r–14v); Robertus Anglicus, *Quadrans vetus* (15r–21r), with solar tables (21v–23v); ‘Conyam dicendum

est de mensurationibus. Hic incipit secunda pars principalis huius de utilitatibus...' (24ra–24rb); enigmas (24va–26rb); computus tables (26v–27v); Alfonsine tables (28r–48v); 'Incipit tractatus chilindri quod horologium dicitur viatorum...' (49r–49v); John of Saxony, *Canones* (50r–59r); Franco de Polonia, *Tractatus de turketo* (59v–61r); Pseudo-Messahallah, *De compositione astrolabii* (61r–64v); *Theorica planetarum Gerardi* (66r–71v); Robert Grosseteste (?), *De impressionibus aeris* (72r–74r); 'Incipit liber de potestate planetarum et signorum et formis eorum. De potestate planetarum et signorum nunc tractare incipimus, sed prius de formis signorum dicamus... Explicit liber de naturis, formis et sigillis planetarum' (74r–75v); *Proportiones competentes in astrorum industria*, ch. 47 (75v); computus table 1228–1379 (76v); John of Ligneres, *Canones primi mobilis* (77r–85r); John of Ligneres, *Canones* (85r–104r); Alfonsine tables (104r–155v); 'Modum additionis integra et minutiarum phisicarum...' (156r–156v); **Ptolemaica (157r–172v)**; Messahallah, *Epistola de rebus eclipsium* (172v–174v); John of Murs, *Tabula tabularum*, canons (174va–182ra); Albumasar, *Flores*, without the beginning (182rb–189r); Geoffrey of Meaux, *Kalendarium* (189r–197r); computus table (197v); Alcabitus, *Introductorius* (198r–212v); 'Si per horam nativitatis horam et diem conceptionis nati scire desideras...' (213v); 'Inquirentibus compositionem astrolabii modumque compositionis...' (214ra–219rb); *Theorica planetarum* 'Investigantibus artem astronomie primo sciendum occurrit 7 esse puncta immobilia...' (220ra–226ra); *Epistola Argafalau ad Alexandrum*, ch. 2.3–23 (226ra–226rb); 'Pone 4 areas 4 qualitatium et si volueris iudicare de anno...' (226rb–226va); 'Saturni, Iovis et Martis loca sic reperito...' (226va–227va); Sacrobosco, *Algorismus* (228r–233r); Sacrobosco, *De sphaera*, end gone (233r–235v); astronomical notes (236r); table: elections from the aspects of the Moon with the other planets (236v); notes of arithmetic (inner back cover). Blank: 65, 76r, 213r, 219v.

Bibl. Zinner 1964, 27–28; M. Hedlund, *Katalog der datierten Handschriften in lateinischer Schrift vor 1600 in Schweden*, I: *Die Handschriften der Universitätsbibliothek Uppsala*, 1: Text, Stockholm, 1977, 16; M. Andersson-Schmitt, H. Hallberg, M. Hedlung, *Mittelalterliche Handschriften der Universitätsbibliothek Uppsala: Katalog über die C-Sammlung*, VI: *Handschriften C 551–935*, Stockholm, 1993, 214–20.

157r–172v 'Incipit Centiloquium Ptolomei de iudiciis astronomie. <D>ixit Ptolomeus: Iam scripsi tibi, Disive (!), libros de hoc quod operantur stelle in hoc seculo... <S>ciencia stellarum ex te et illis est... <D>ixit Ptolomeus, ex te et ex illis, significat quod qui res futuras scire desiderant — Et ego Deum precor ut te diligat. Perfecta est huius libri translacio 12 mense Maii, 12 die mensis Gamedi secundi, anno Arabum 530. Amen. Explicit Centiloquium Ptolomei et comentum Hahi (!) super ipsum.'

= Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1). No glosses.

Urbino, Biblioteca Universitaria, Fondo del Comune, Busta 120 (28)

s. XVI² (probably shortly before 1558 and 1562, when Commandino published Ptolemy's *Planisphaerium* and *Analemma*, together with his commentaries on these texts). **Or.:** Federico

Commandino's collected papers and preparatory notes for his editions of Archimedes, Ptolemy and Euclid.

Paper, 391 f. (modern foliation), partially unbound and divided among three 'fascicoli' or 'cartelle' (I: f. 1–139, II: f. 140–245; III: f. 246–391), several hands, including that of Commandino for f. 140–149 (Ciocchi, 263).

Mathematics and astronomy (Fascicolo II): ***Ptolemaica* (150r–165r, 166r–173v, 174r–175r, 198r–207v, 214r–223v and 226r–244r)**, interspersed with notes and fragments (140r–149r, 176r–197v and 208r–213v), some of which are related to the *Ptolemaica*. Blank: 149v, 165v, 224r–225v, 244v–245v. Fascicoli I and III contain various works of geometry and logic, including by Euclid, Archimedes and Aristotle, together with Commandino's notes and commentaries.

Bibl. G. Moranti, *Inventari dei manoscritti delle biblioteche d'Italia*, LXXX, Firenze, 1954, 170 ('Busta 28'); Kristeller 1963–1992, VI, 249; A. Ciocchi, 'I manoscritti urbinati di Federico Commandino: Una ricognizione delle Buste 120 e 121 Della Biblioteca Universitaria di Urbino', *Bollettino di Storia delle Scienze Matematiche* 38 (2018), 237–69.

- 150r–165r 'Federici Commandini Urbinati in Planisphaerium Ptolemaei commentarius. Figuram visam quemadmodum appareat in proposito plano describere — (157v) aliud quodvis corpus. (158r) Cum sit possibile, o Syre, etc. Principio docet Ptolemaeus dato aequinoctiali circulo in plano proposito — pariter fecamus, unde stellarum loca certissima ratione deprehenduntur.'
= **Federico Commandino, *In Planisphaerium Ptolemaei commentarius* (C.4.5)**. A few marginal notes possibly by the scribe.
- 166r–173v 'Claudii Ptolemaei sphaerae aplanetis proiectio in planum. Cum sit possibile, o Syre, et plurimum necessarium ut in plano repraesententur circuli in sphaeram corpoream incidentes — quos in 4 rectis angulis numeramus 360, habebit angulus ECY gradus 8 <puncta>...'
= **Ptolemy, *Planisphaerium*, tr. Hermann of Carinthia (A.6.1)**, Class I, without the translator's preface. Abrupt end at the bottom of f. 173v, several folia are missing, as confirmed by the catchword 'punc<ta>' f. 173v. No glosses. A couple of corrections by the scribe f. 169r.
- 174r–175r 'Figuram visam quemadmodum appareat in proposito plano describere — aliud quodvis corpus.'
= **Federico Commandino, *In Planisphaerium Ptolemaei commentarius* (C.4.5)**, excerpts (?) from the first part (f. 150r–157v above), with numerous corrections by the scribe.
- 198r–207v 'Assiduis auditorum exortationibus impulsus, Epiphani fili, ad ea illustranda quae in Mathematica Ptolemaei constructione obscura est passim visa sunt explanationem in eam conscribere optimum fore duxi — quod fit ex AZ, quamobres AE aequales et AZ et dupla <ut AE>...'
= **Theon of Alexandria, *Commentum in Almagesti*, tr. Giovanni Battista Teofilo (C.1.30.4)**. Theon's preface, 198r–201v; I.1, 202r–207v, abrupt end due to missing folia (cf. catchwords 'ut AE').

- 214r–223v ‘Cl<audius> Ptolemeus Syro S. D. (?). Consideranti mihi, Syre, angulorum acceptorum circa gnomonem qui rationi consentanei essent — horarii ad verticalem et descensivi ad horizontem. Cancres (?) autem hoc modo se habent.’
= **Ptolemy, *Liber de Analemmate*, tr. William of Moerbeke (A.5.1)**, with variants. Numerous corrections by the scribe.
- 226r–244r ‘Antiquos mathematicos de gnomonicis rationibus conscripsisse ex Vitruvio, Ptolemaeoque satis constat, quorum inventis cum Ptolemaeus non nulla addidisset — ab ipso Analemmate exordium capientes.’
= **Federico Commandino, *Claudii Ptholemei liber de Analemmate cum commentariis* (C.4.2)**. Corrections by the scribe.

Utrecht, Universiteitsbibliotheek, 6.A.3 (725)

s. XV^{ex}–XVIⁱⁿ.

Paper, 246 f., a single hand.

Astronomy and mathematics: calendar, incomplete (1v–2r); ***Ptolemaica* (4r–10r)**; John of Murs, *De arte mensurandi* (12r–90v); Jordanus de Nemore, *De plana spera* (91r–98r); Jordanus de Nemore, *De ratione ponderis* (98r–105v); ‘Incipit tractatus de proportionem mixtorum. Si fuerit aliquod corpus mixtum...’ (106r–108r, including *Liber de canonio* on f. 106r–107v and Heron’s theorem on f. 107v–108r); Archimedes, *Tractatus de incidentibus in humidum corporibus* (108r–110v); Menelaus, *Spherica* (111r–164v); Nicole Oresme, *Algorismus proportionum* (165r–171v); Nicole Oresme, *De incommensurabilitate motuum celestium* (172r–193v); Campanus of Novara, *Compotus maior*, ch. 10, entitled ‘Expositio tractatus Thebit Benchorat de motu octavae sphaerae’ (193v–199v), with Pseudo-Thebit Bencora’s *De motu octave spere* copied in the margin of f. 194v–195v; notes of chronology and astronomy ‘Anni a diluvio ad Christum sunt 3101...’ (200r–200v); ‘Sequuntur naturae et positiones ymaginum septentrionalium tempore Ptolomaei... ex Almagesto libro septimo...’ (201r–201v); William of Saint-Cloud, *Almanach planetarum* 1293–1311, canons only (201v–204r); Pietro d’Abano, *De motu octave sphere* (204v–206r); Johannes de Harelbeke, *Tractatus de spera solida* (206v–211r); *Theorica planetarum* ‘Ego aggregavi in hoc libro multa et satis specialia...’ (212r–213r); ‘Tractatus de situ imaginum caelestium deque earum motu atque nominibus. Imagines quidem sub astronomi consideratione...’ (214r–217v); Henry of Langenstein, *De reprobatione eccentricorum et epiciclorum* (218r–246r). Blank: 1r, 2v–3v, 10v–11v, 211v, 213v, 246v.

Bibl. *Catalogus codicum manu scriptorum Bibliothecae Universitatis Rheno-Trajectinae*, I, Utrecht-Den Haag, 1887, 190–91 (no. 725); Harper 1966, 21–22; Kristeller 1963–1992, IV, 382; H. L. L. Busard, *Johannes de Muris: De arte mensurandi*, Stuttgart, 1998, 57–59.

- 4r–10r ‘Incipit liber Almagesti Ptholomei abbreviatus. Prefatio sex continens conclusiones. Omnium recte phylozophantium non solum verissimilibus et credibilibus argumentis — de duobus reliquis triangulis orthogoniis duarum.’
= ***Liber Almagesti Ptholomei abbreviatus* (C.1.24)**, apparently incomplete or unfinished, with f. 8v–9v (and also 10v–11v) left blank. No glosses.

Vác, Egyházmegyei Könyvtár, 708.012/Fragm. 2

s. XIII^{med}. **Or.:** probably Italy. **Prov.:** the fragments were discovered in 2017 in the binding of a printed book in the Diocesan Library of Vác, Hungary. According to an owner's note, the printed book (Petrus Ancharanus, *Consilia sive iuris responsa*, Venice, 1568) belonged to Lorenzo Poggioli di Bologna, Governor of Città di Castello, in 1584. The printed book was in the Diocesan Library of Vác by 1875.

Parchment, two fragmentary folia, of which only the top section (c. 25%) remains. The outer pages (f. 1r and 2v) are faded and for the most part illegible.

Ptolemaica (single text).

Bibl. J. Lauf, G. Sarbak, 'Kódektörödékek Vácott', in *Hármas törekvés: A váci katolikus papság és értelmiség identitás keresése a XVIII. században*, ed. I. Boros, Budapest, 2018, 31–53: 50–51; J. Lauf, 'Pseudo Ptolemaeus Centiloquiuma Vácott. Néhány jelentős kódex-törödékek a Váci Egyházmegyei Könyvtárban', in *Litteris vincimur. I Scriptorium konferencia, Vác, 2017. május 11–12*, eds I. Boros, L. Takács, Budapest, 2018, 187–96 (with reprod. of f. 1r and 2r pp. 279–80). I am grateful to Judit Lauf for drawing my attention to these fragments and for sending me photographs of them.

1ra–2vb 'Incipit liber Ptolomei de centum verbis. ... (?), Iesure, tibi libr... (?) Verbum primum. Scientia stellarum ex te et illis est. Expositio... (2ra) [v. 24] <Dici>t Pto<lomeus>. Eclipsis duarum lucentium in cardinibus ascendentium a nativitate vel in conversione annorum nocet — ... [last words f. 2vb illegible].'
= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. before c. 1250 (C.3.1.5)**, preface and fragments of v. 1, 3–4, 24–26 and 28–31, as follows: preface with beginning and middle of v. 1, 1ra–1rb; end of v. 1, last line of v. 3 and beginning of v. 4, 1va–1vb; beginning of v. 24, end of v. 25 and beginning of v. 26, 2ra–2rb; last line of v. 28, beginning of v. 29, end of v. 30 and beginning of v. 31, 2va–2vb. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Barb. gr. 262

s. XVII¹ (1642 for the first part; the second part dates from the 16th c.). **Or.:** Vincenzo Riccardi, who supervised the copy of the first part and annotated the second part.

Paper, 60 f., MS made of two parts, each copied by a single hand (f. 2–42 and 43–60).

Astrology: title page 'Πορφυρίου φιλοσοφού Εισαγωγή εις την Αποτελεσματικὴν τοῦ Πτολεμαίου. Porphyrii philosophi Introductio in Apotelesmata Ptolemaei Vincentio Riccardo clerico regulari interprete' (1r); Vincenzo Riccardi, dedicatory letter to Cardinal Francesco Barberini, dated 28 July 1642 (2r–3r); Vincenzo Riccardi, letter to the reader (4r–6r); *Ptolemaica* (7r–42r); Pseudo-Porphyry, *Introduction to the Tetrabiblos*, Greek text (43r–60v). Blank: 1v, 3v, 6v, 42v.

Bibl. *Catalogus Codicum Astrologorum Graecorum*, V.4, Bruxelles, 1940, 60; J. Mogenet, J. Leroy, P. Canart, *Codices Barberiniani Graeci*, II: *Codices 164–281*, Vaticano, 1989, 106–07 and 165; D. Surace, 'Copisti greci in tre codici sconosciuti della Biblioteca Nazionale Centrale

di Roma (S. A. Valle 100, 102–03)', *Néa 'Páμη. Rivista di Ricerche Bizantinistiche* 8 (2011), 219–303: 266–68 n. 86.

7r–42r 'Porphyrii philosophi Introductio in Apotelesmata Ptolemaei. Proemium. Cum de iis quae doctrinam coelestium continent corporum quaeve ex illa — et Mercurii 14 ante 7 et pone 7. Finis.'
 = **Pseudo-Porphyry, *Introductio in Apotelesmata Ptolemaei*, tr. Vincenzo Riccardi (C.2.25.2).** No glosses.

Vatican, Biblioteca Apostolica Vaticana, Barb. lat. 156

s. XV^{ex}. **Prov.:** Bartolomeo Vespucci, professor of astronomy at Padua and Amerigo Vespucci's nephew, who sold the MS in 1512 (f. 1r: 'Bartholomei Vespuccii quem emit anno 1512 Florentie libre 3'; f. 215r: 'Bartholomei Vespuccii librum emi Florentie anno 1512 libre 3').

Paper, 215 f., three hands: I. f. 1–149 and 198–215; II. f. 150–171; III. f. 172–197.

Astronomy: ***Ptolemaica* (1r–145v)**; Andalo di Negro, *Tractatus de compositione astrolabii*, incomplete (146r–147r); Andalo di Negro, *Theorica distantiarum omnium sperarum* (150ra–153va), with tables (155ra–155v); Andalo di Negro, *Theorica planetarum* (162ra–171va); Alpetragius, *De motibus celorum* (172ra–194rb); Pseudo-Messahallah, *De compositione astrolabii* (198r–215r). Blank: 147v–149v, 154, 156–161, 194v–197, 215v.

Bibl. *ICMBB*, I, 212–13; Silverstein 1957, 32–34; Kristeller 1963–1992, II, 443.

1r–145v '<A>dmiranti michi saepenumero vel potius graviter vel inique serenti tam raros esse aetate nostra optimarum... (2v) Recte profecto meo iudicio nobiliores philosophi, o Sire, distinxerunt inter theoricam philosophie et practicam partem — quod postremo hoc in theoreumate explorare et coepto labori modum statuerit decrevimus.'
 = **Johannes Regiomontanus, *Epitome Almagesti* (C.1.21).** Preface, 1r–2v; I, 2v–13v; II, 14r–24r; III, 24r–36v; IV, 36v–45v; V, 45v–60r; VI, 60r–74r; VII, 74r–80r; VIII, 80r–88r; IX, 88r–100r; X, 100r–111v; XI, 111v–122v; XII, 122v–130v; XIII, 130v–145v. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Barb. lat. 172

s. XIV (after 1322, cf. f. 190ra: 'Tradita erat hec Cantori Parisien<si> anno domini 1322 in die beati Iacobi Aprili et transmissa domino Henrico de Urtalis canonico Traiecten<si>').

Or.: Italy. **Prov.:** Giovanni Pontano, who copied f. 1r; Cardinal Francesco Barberini (1597–1679).

Parchment, 190 + I f., three neat hands (f. 1r–42r, 42v–138r, 138r–190r), with additions by two further hands f. 190v and 1r. Beautiful MS with decorated initials.

Astrology: Haly Abenragel, *De iudiciis astrorum* (1ra–187vb); ***Ptolemaica* (187vb–189vb)**; John of Toledo, judgement on the conjunction of planets in 1186, although dated 1329

(189vb–190ra); added table for computing the dates of the entry of the Sun into Aries (190v); Petrus Bonus Advogarius, zodiacal chorography, added by Giovanni Pontano (Ir).

Bibl. *ICMBB*, I, 243–44; Silverstein 1957, 45–47; M. Rinaldi, ‘Pontano e le tradizioni astrologiche latine medievali: le apostille dell’umanista nel codice Clm 234 della Bayerische Staatsbibliothek di Monaco e nel Barberiniano Latino 172 della Biblioteca Apostolica Vaticana’, *Atti dell’Accademia Pontaniana* 52 (2003), 295–324: 315–24.

187vb–189vb ‘Ista est illa nativitas quam ponit Haly Abenrodan in fine Quadripartiti [title in margin by the scribe]. Volo dicere exempla ut melius intelligas quicquid locuti sumus — Et ego primitus volui ponere nat<ivitam> meam quia totum in me probavi et non per auditum.’
= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2), first part of Haly’s appendix only (on his own nativity). The horoscope, missing, was probably meant to be reproduced on f. 188r, left blank.

Vatican, Biblioteca Apostolica Vaticana, Barb. lat. 173

s. XIII^{ex} (Georges; 14th c. acc Silverstein and Kunitzsch). **Or.:** Italy, probably Bologna acc. Georges. **Prov.:** Cardinal Francesco Barberini (1597–1679).

Parchment, 185 f., a single hand, painted initials f. 4r, decorated initials.

Ptolemaica (single text). Blank: 3r–4ra.

Bibl. *ICMBB*, I, 245; Silverstein 1957, 47–48; Kunitzsch 1986–1991, II, 17–18; Kristeller 1963–1992, VI, 388; Georges (forthcoming).

1ra–185ra ‘Dictio secunda incipit cuius capitula sunt 13. Liber hic precepto Maimonis regis Arabum, qui regnavit in Baldach... (4rb) *Almagestum* Ptolomei Pheludensis [title in upper margin, apparently by another hand]. Capitulum primum in prologo. Bonum quod fecerunt in eo quod video illi qui perscrutati sunt... (5ra) Incipit *Almagesti* quem Ptolomeus Pheludensis de scientia stellarum motuum celestium conscripsit. Quidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (5va) Capitulum primum in quo huius scientie excellentiam et finem eius utilitatis dicam. Bonum domine fuit quod sapientibus non deviantibus visum est — per ipsum prolongationem et abbreviationem, tunc iam sequitur et honestum est ut ponamus hoc finem libri. Explicit.’
= **Ptolemy**, *Almagesti*, tr. **Gerard of Cremona** (A.1.2), Class B. The text opens with the end of the preface followed by a full chapter index of all 13 books, 1ra–2vb, and with ch. I.1 in Ishāq’s version, 4vb–5ra. Preface (second copy, this time in full, including chapter index of Book I), 5ra–5va; I, 5va–18ra; II, 18ra–32va; III, 32va–49rb; IV, 49ra–63vb; V, 63vb–81rb; VI, 81rb–98rb; VII, 98va–102vb (end missing); VIII, 103ra–112ra (beginning missing); IX, 112ra–129a; X, 129va–141ra; XI, 141ra–157rb; XII, 157va–170ra; XIII, 170ra–185ra. Several chapters are missing between VII.3 and VIII.1,

due to the loss of several folia between f. 102 and 103 ('... ad partem successionis signorum illius temporis. Stellam vero que est super hu<merum antecedentem Geminorum> ... /103ra/ ... Tabula fixarum stellarum. Forme et stelle. Septentrionalis trium que sunt in cornu sequente 9^s 7° 20'...'). Numerous glosses by the scribe and by a somewhat later hand. A selection of these glosses (shared by MSS ↗Cracow, BJ, 590 and ↗Vatican, BAV, Vat. lat. 2057) have been edited by Zepeda 2013, 386–89.

Vatican, Biblioteca Apostolica Vaticana, Barb. lat. 182

s. XV (perhaps '1452', written in the top margin of f. 1r; added horoscope for 17 July 1456 on f. 1v — the date is noted in the central panel and the horoscope was cast for one 17 July (Sun at 2° Leo), but the other planetary positions are wrong for 1456 and do not lead to any other recognisable date). **Or.:** northern Italy, probably Florence. **Prov.:** Filippo di Cenni d'Aiuto, professor of medicine at the University of Florence (cf. f. 2vb: 'Magistri Filippi Cennii de Florentis'); Carlo Strozzi (d. 1670), cf. f. 3r: 'Caroli Strozze Thomae filii 1635'; Cardinal Francesco Barberini (1597–1679).

Paper and parchment, 138 f. The MS originally consisted of five texts copied by a neat hand (f. 3r–99r, 103r–124r, 125r–133ra), with painted initial on f. 3r. Later on, a second, rather careless, hand glossed the MS and added numerous texts and notes in the margins of f. 103r–110v and 132r–133r, and on pages which had been left blank (f. 1r–2v, 99v–102v, 124v, 133v–139r). It cannot be ruled out, however, that both hands belong to one and the same scribe, for both sign in a similar fashion, e.g. 'Omnipotentii gratiarum actiones referendo' (first hand, f. 99rb) and 'Deo omnipotentii gratias' (second hand, f. 100rb).

Astronomy and astrology: the five original texts included ***Ptolemaica* (3ra–99rb)**; Campanus of Novara, *Theorica planetarum* (103ra–119va); *Theorica planetarum Gerardi* (119va–124rb); Haly Embrani, *De electionibus horarum* (125ra–132ra); and Gergis, *De significatione septem planetarum in domibus* (132rb–133ra). The added texts and notes include, among others, a set of *sortes* at least partly related to the *Prognostica Socratis Basilei* (1ra–2v); excerpts from Thebit Bencora's *De imaginibus* (99va–99vb) and of Pseudo-Albertus Magnus's *Speculum astronomie* (100va–101rb); ***Ptolemaica* (101rb–101vb)**; excerpts from Alcabitus's *Introductorius* (102ra–102vb); Alkindi (?), *Saturnus in Ariete sub radiis...* (132rb–133rb); *Astronomia Ypocratis* (133rb–133vb); Albumasar, *Flores* (136rb–137rb); *Capitula Almansoris* (137va–138rb); and Zael, *Quinquaginta precepta* (138rb–138va).

Bibl. *ICMBB*, I, 259–60; Silverstein 1957, 57–60; Kristeller 1963–1992, II, 443; Kunitzsch 1986–1991, II, 22; Kristeller 1963–1992, VI, 388; Georges (forthcoming).

3ra–99rb 'Prologus primus in Almagesto Ptholomei Pheludensis. Quidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (3rb) Capitulum primum in quo huius scientie ad alias excellentiam et finis eius utilitatis dicit. Bonum fuit scire quod sapientibus non deviantibus visum est — abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Deo laus.

Expleta est dictio XIIIa libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Omnipotenti gratiarum actiones referendo.'

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 3ra–3rb; I, 3rb–10vb; II, 10vb–22ra; III, 22ra–28rb; IV, 28va–37rb; V, 37rb–46ra; VI, 46ra–54rb; VII, 55ra–57vb; VIII, 62ra–64rb; IX, 64rb–73ra; X, 73ra–78rb; XI, 78rb–86ra; XII, 86ra–92ra; XIII, 92ra–99rb. F. 58–61, meant to contain the star catalogue, have been left blank. A few short marginal notes by the second hand, especially f. 3r–5v.

101rb–101vb 'Ysagoge Tebit in astrologiam. Equator diei est circulus maior qui describitur (?) super duos polos — aut propinqui oppositioni erunt retrogradi. Tebit finit introductorius necessarius ad expositionem Almagesti antequam legatur.'
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. Two short notes by the scribe in the margin of f. 101v.

Vatican, Biblioteca Apostolica Vaticana, Barb. lat. 304

s. XVI² (between 1553 and 1561, including lectures given in 1557 and 1558, cf. f. 187v, 205r and 207v). **Or:** notebook of Baltasar Torres (1518–1561), professor of mathematics at the Collegio Romano in Rome.

Paper, 172 f. foliated 122–293 (f. 171 missing in foliation), one main hand.

Texts and notes in Latin and Spanish in great disorder, mainly of mathematics, physics, astronomy and medicine: 'Annotationes in 7 Euclidis' (122r–122v); Archimedes, *Tractatus de incidentibus in humidum corporibus* (124r–141v, with diagrams 160r–162v); chapter index of Proclus's *De motu* (142r–142v); notes in Spanish and Latin (144r–146r); **Ptolemaica (150r–160r)**; notes and diagrams of geometry (160r–162v, see *supra*, f. 124–141), including 'in librum Ptolemei de Analemate' (162r); 'Index librorum manuscriptorum Grecorum in Carpentri Bibliotheca' (163r–163v); notes of medicine (168r–169v); astronomical/geographical notes about Spain, in Spanish (170r–170v); notes of geometry and astronomy in Latin and Spanish (172r–175v); 'Electuarium melancholicus utile' (176r); 'Discorso sopra l'arte del algebra' (176r–179v); 'Ex Fernelii libro de temperamentis et elementis' (180r–185v); notes of geometry, astronomy and medicine (186r–186v); 'Conclusiones generales in astronomiam, figuram et magnitudinem terre' (187r); 'Lectiones geometriae anni 1557' (187v–190r); 'Si tempus meum propositum 1539, menses 4, dies 16, h<ore> 5...' (194r–194v); 'Quod ad horologiorum rationem pertinent...' (195r–204v); notes on the dog-days (205r); 'Horologiorum lectiones anni 1558' (205r–206r); 'Horologiorum liber primus in summam et capita redactus' (206v–207v); 'Anni 1558 in collegio Societatis Iesu de ratione horologiorum praefatio' (207v–208v, 213v–216v, 218v–220v and 240r–247v), interspersed with scattered notes on various topics in Latin and Spanish (209r–213r, 217r–218r, 221r–239v, 249v and 252v–254v); 'De modo instituendis confessionis quae octavo quoque die a nostris fieri debet et aliis etiam accomodari possit' (255r–259r); scattered notes in Spanish and Latin (259v–273v); alphabetical index to the MS (274r–291r); list of books (292v). Blank: 123, 143, 145r, 146v–149v, 164–167 (except for notes in Italian f. 165r), 176v, 190v–193v, 210v, 231v, 248r–249r, 250r–252r, 291v–292r, 293.

Bibl. *ICMBB*, I, 398–99; P. L. Rose, *The Italian Renaissance of Mathematics. Studies on Humanists and Mathematicians from Petrarch to Galileo*, Genève, 1975, 197–98; Kristeller 1963–1992, II, 443, and VI, 388; J. Guerola Olivares, *El Colegio Romano I els orígens de la trigonometria: De l'Analemma de Ptolemeu a la gnomonica de Clavius*, PhD dissertation, Universitat Autònoma de Barcelona, 2018, 29–33.

150r–160r ‘Claudii Ptholemei liber de Analemmate. Consideranti mihi, o Syre, angulorum acceptorum in locum gnomonicum quid rationale et quid non, habitum quidem virorum illorum in lineis accidit admirari et in hiis et valde acceptare — horarii autem ad eum qui secundum verticem, descensivi autem ad horizontem. Habent autem et canones ita’ (followed by the table ‘Cancri principii horarum 13’).
= **Ptolemy, *Liber de Analemmate*, tr. William of Moerbeke (A.5.1).**
Glosses by the scribe, substantial on f. 150v–151r.

Vatican, Biblioteca Apostolica Vaticana, Barb. lat. 328

s. XV² (copied between 1459 and at least 1462, cf. ‘1459’ f. 1r and *infra* f. 171r). **Prov.:** Carlo Strozzi (d. 1670), cf. f. 1r: ‘Caroli Strozze Thomae filii 1635.’

Paper, 236 f. (followed by 110 blank and unnumbered folia), three hands (I: f. 2–142 and 171–236; II: f. 143–163; III: f. 165–170). The first hand copied the explicit f. 163rb.

Astrology: table of contents, 16th–17th-c. hand (1r); *Astronomia Ypocratis*, attr. William of Moerbeke (2ra–7v); **Ptolemaica (8r–70v + 76v–77r, 70r–70v and 70v–76r)**; Hermes, *Centiloquium*, end only (78r, see f. 84r–87v); *Capitula Almansoris* (78r–84r); Hermes, *Centiloquium* (84r–87v, end on f. 78r); Messahallah, *Epistola de rebus eclipsium* (87v–91v); *Liber novem iudicum*, selection ‘De significatione planetarum in domibus, inprimis de Saturno. Saturnus in oriente pro lege autem...’ (91v–137r); **Ptolemaica (137v–142r)**; Matheus de Guarimbartis, *De directione et proiectione radiorum et aspectuum* (143r–163rb); tables ‘Tabule directionum et aspectuum’ (165r–170v); **Ptolemaica (171r–194v and 195r–195v)**; ‘Cum volueris scire colorem eclipsis Lune, aspice latitudinem Lune...’ (195v); ‘Mansiones Lune sunt 28, quarum cuilibet dantur 12 gradus zodiaci...’ (195v–196r); ‘Sequitur de ymaginibus ascendentibus in faciebus 12 signorum zodiaci. In prima facie Arietis ascendit forma hominis nigri...’ (196r–196v); Haly Embrani, *De electionibus horarum* (197r–230v); star catalogue verified 1440 (231r–234r); star tables verified 1330, with precessional increment for 1416 (234v–236r). Blank: 1v, 7v, 77v, 142v, 163v–164v, 236v.

Bibl. *ICMBB*, I, 438–41; Silverstein 1957, 94–99; Kristeller 1963–1992, II, 444; Lemay 1999, I, 274–76.

8r–70r and 76v–77r ‘Incipit liber 4 tractatum Ptolomei Alfilludhi in scientia iudiciorum astrorum et in primo tractatu sunt 24 capitula. Capitulum primum in collatione intellectus scientie iudiciorum astrorum. Rerum, Yesure, in quibus est pronosticabilis scientie stellarum profectio magnas et precipuas duas esse deprehendimus — (70r) hoc in loco huic libro finem inponere non

incongruum existimamus. Explicit liber 4 Quadripartiti. (76v) Capitulum X in fortitudinibus quatuor temporum. Stellarum itaque fortitudinum qualitates in semetipsis ut ab antiquis expertum est sunt hee — et alii etiam 30 gradus punctum hyemalis solstitii ordinatim succedentes.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 8r–22r; II, 22r–36r; III, 36r–56v; IV, 56v–70r; I.10–12, 76v–77r. The scribe copied chapters I.10–11 and the first lines of I.12 on f. 76v–77r because he had accidentally skipped that section in the text *supra* (cf. f. 15v: ‘[I.10] Capitulum 10 in fortitudinibus 4 temporum. Stellarum itaque fortitudinum qualitates in semetipsis ut ab antiquis expertum est [I.12] solstitii ordinatim succedentes, qui sunt Capricorni gradus’). Short marginal notes by the scribe f. 20r–21r.

70r–70v ‘Incipit scientia projectionis radiorum. Cum projectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate. (70v) Explicit Quadripartitus Ptholomei.’

= **Pseudo-Ptolemy, *Liber projectionis radiorum stellarum* (B.6)**, apparently considered part of the *Quadripartitum* (but see explicit above, f. 70r). One short marginal note by the scribe f. 70r.

70v–76r ‘De iudiciis partium. Et primo de parte fortune, hec accipitur in die a Sole in Lunam, in nocte e contra, et prohibetur ab ascendente. Quoniam et in primo libro partium terminos et loca posuimus, iudicia sub earundem ministrare curavimus. Pars fortune et eius dominus corpus et que ad corpus adtinent — partis significationem aut eius domini hiis XII duodecim mensibus mutatur.’
= **Pseudo-Ptolemy, *Liber de iudiciis partium* (B.8)**. No glosses.

137v–142r ‘Incipit Centiloquium Tolomei. Iam scripsi tibi, Yesuret (?), libros de hoc quod operantur stelle in hoc seculo... I. Scientia stellarum ex te et illis est — ex aliqua civitatum illius climatis. Summi Ptolomei Centiloquium finit.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, without the commentary. No glosses.

171r–194v ‘Yhesus Christus 1462. Centiloquium Ptolomei cum commento Haly. Mundanorum ad hoc et ad illud mutatio celestium corporum mutatione contingit, rerum igitur causas rimaturus opus est celestia contemplare. Commento (!). Dixit Ptolomeus, mundanorum etc.: Iam scripsi tibi, Yesure, libros de hoc quod operantur stelle in hoc mundo... Primo verbo [title in the margin]. Scientia stellarum ex te et ex illis. Astrologus non debet dicere rem specialiter sed universaliter... Cum dixit Ptolomeus, ex te et ex illis, significat quod qui res futuras cognoscere desiderat — et ego precor Deum ut te diligat. Perfecta est huius libri translacio 3^o die mensis Martii, secundo (?) die mensis Iumedi secundo anno Arabum 300. Explicit Centiloquium Ptholomei cum commento Haly.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, except the first sentence from the ‘Mundanorum’ version (C.3.1.3). No glosses.

- 195r–195v ‘Ptholomeus dixit quod stelle cum caudis sunt 9 — significat magnam mortalitatem et decollationem.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Barb. lat. 336

s. XV (the years 1486 and 1487 are mentioned in connection with the added material on computus f. 303r). **Or.:** probably Paris (Georges).

Paper, 305 f., a single hand.

Ptolemaica (single text), except for added computistical and astrological tables and figures (298v–299r, 300r, 301v, 302v–305v). Blank: 297v–298r, 299v, 300v–301r, 302r.

Bibl. *ICMBB*, I, 451; Silverstein 1957, 101–02; Kunitzsch 1986–1991, II, 22; Kristeller 1963–1992, VI, 388; Georges (forthcoming).

- 1ra–297ra ‘Quidam princeps nomine Albuguafe in libro suo quem scientiarum electionem et verborum nominavit... (1vb) Bonum scire fuit quod sapientibus non deviantibus visum est — abbreviationem, arrogantiam vel collaudationem, tunc iam sequitur et honestum est ut ponamus hoc finem libri. Expleta est dictio 13^a libri Ptolomei et cum ea completur liber Almagesti de disciplinalibus.’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1ra–1vb; I, 1vb–21ra; II, 21rb–51va; III, 51vb–72rb; IV, 72va–97vb; V, 98ra–129va; VI, 129vb–158r; VII, 158va–171vb; VIII, 176ra–186va; IX, 186vb–218ra; X, 218rb–236vb; XI, 237ra–258va; XII, 258vb–277rb; XIII, 277va–297ra. The star catalogue (VII.5–VIII.1) is missing, with f. 172r–175v left blank *in loco*. Substantial glosses by the scribe (not a ‘similar hand’, as in Silverstein), especially in the first part (up to f. 85r). Many (all?) of these glosses, including those attributed to Campanus of Novara, are also found in MS $\rightarrow$ Paris, BnF, lat. 7256.

Vatican, Biblioteca Apostolica Vaticana, Borgh. 312

s. XIII^{ex}–XIVⁱⁿ. **Prov.:** Pierre Roger of Maumont (1291–1352, future Pope Clement VI, 1342–1352), cf. f. 45v: ‘In isto volumine continentur isti libri per ordinem et sunt P<etri> Rotgerii de Malomonte, monachi Caze Dei [La Chaise-Dieu].’

Parchment, 45 f., a single neat hand, reserved initials.

Astronomy and astrology: Alfraganus, *De scientia astrorum*, tr. John of Seville (1r–8vb); Azarchel, *Saphea*, tr. Johannes Brixiensis and Prophatius Judeus (8vb–13vb); Azarchel, *Saphea*, tr. Guillelmus Anglicus (13vb–15ra); Pseudo-Messahallah, *De compositione astrolabii* (15ra–18ra); **Ptolemaica (18ra–25ra)**; Messahallah, *Epistola de rebus eclipsium* (25ra–26ra); Alcabitus, *Introductorius* (26ra–35ra); canons of Toledan tables (35ra–42vb); Jafar, *Liber*

imbrium, attr. Albumasar (43ra–45ra); Hermann of Carinthia, *Liber imbrium* (45ra–45vb); added notes, including owner's note and table of contents (45v).

Bibl. A. Maier, *Codices Burghesiani Bibliothecae Vaticanae*, Vaticano, 1952, 354–57; Lemay 1999, I, 276; Pedersen 2002, I, 176.

18ra–24vb 'Incipit Centilogium Ptholomei cum commento Haly. <D>ixit Ptolomeus: Iam scripsi tibi, Disme (!), libros de hoc quod operantur stelle in hoc seculo... I. <S>ciencia stellarum ex te et illis... Commentum. <Q>uod dixit Ptolomeus, ex te et illis, significat quod qui res futuras scire desiderat — et ego Deum precor ut te dirigat. Perfecta est huius libri translatio 17 die mensis Marcii, 12 die menses (!) Gumedii secundi anno Arabum 1302.'
= **Abuifafar Hamet filius Joseph, (Commentum in Centiloquium), tr. Plato of Tivoli (C.3.1.1)**. Occasional short marginal notes by the scribe.

24vb–25ra ' <P>tho<lome>us dixit quod stelle cum caudis sunt 14 (!) — in regibus et divitibus apparebit. Explicit C.'
= **Pseudo-Ptolemy, De cometis (B.4)**. One gloss by a later hand f. 24v–25r.

Vatican, Biblioteca Apostolica Vaticana, Cappon. 255

s. XVII¹ (after 1632, date of the two most recent horoscopes f. 287r and 308v). **Or.:** northern Italy, most probably the Capponi family in Florence, since several horoscopes (f. 289v, 294v, 297r, 299v, 301r, 303v, 306r, 308v and 332r), including the most recent one, are those of members of that family. **Prov.:** Capponi family, until Alessandro Capponi, who bequeathed the family library to the Vatican in 1746.

Paper, VIII + 329 f. (paginated 1–242, then foliated 243–450), several hands.

Astrology: **Ptolemaica (1–222 and 223–37)**, followed by a full chapter index of the *Quadripartitum* (239–243r); collection of c. 150 horoscopes, mainly of members of Italian families born in the first third of the 17th c. (245r–447r). Two added index of those horoscopes (one by order of appearance, the other alphabetical) are found f. IIIr–VIIIr. Blank: Ir–IIr, VIIIv, 238, 243v–244v, 447v–450v (and many blank folia between f. 245 et 447).

Bibl. G. Salvo Cozzo, *I codici Capponiani della Biblioteca Vaticana*, Roma, 1897, 349.

1–222 'Claudii Ptolomaei Pelusiote quadripartiti operis de iudiciis astrorum ad Syrum fratrem liber primus, Pancratis Florentino, monacho Vallis Umbrosano, interprete. Prooemium. Cum duo sint maxima et potissima, o Syre, quae per astronomiam finem cui praesagiendi vis insita est preparant — et causae mathematicae et causae quae oriuntur ex mixtione. Finis.'
= **Ptolemy, Quadripartitum, tr. Pancratis Florentinus (A.2.13)**. I, 1–55 (56 blank); II, 57–107; III, 108–182; IV, 183–222. No glosses.

223–237 'Claudii Ptolemei liber qui dicitur fructus. Cum exposuerimus, o Syre, effectrices astrorum vires, quae in hoc composito efficiuntur mundo precognitioni...

1. Abste et a scientia fieri enim nequit, ut qui sciens est — habentis reges gladio de medio ut plurimum tollentur. Finis.'

= **Pseudo-Ptolemy, *Centiloquium*, tr. Pancratius Florentinus (B.1.10).**

No glosses.

Vatican, Biblioteca Apostolica Vaticana, Chigi E.VI.202

s. XIV^{med} (in or soon after 1343, cf. almanach for 1344–1367, f. 1v–25v, and 1343 taken as an example in the canons f. 26v–30r). **Or.:** Italy (cf. 'ç' for 'z', notes in Italian f. 39^{bis}v).

Parchment, 67 f. (new foliation, lower right corner), two main hands (I: f. 1v–30r; II: f. 1r, 10v and 31–67), with intervention of other hands, at least on f. 10r and 30v.

Astronomy and astrology: 'De quibusdam partibus extraordinarii de pluviis. Sunt quedam alia extraordinaria que nunquam memini...' (1r); planetary almanac 1344–1367 for Paris (1v–25v), with canons 'Ut vera loca planetarum cuiuslibet per tabulas invenire possis...', taking the year 1343 and the meridian of Erfurt as examples (26v–30r); 'Ibidem (?) significet Caput et Cauda et stelle...' (30v); 'Inferius ponantur significationes egritudinis et vite et mortis. Quicumque cursum Lune desiderat recte scire...' (31r); *Astronomia Ypocratis* (31r–35r); Alkindi (?), *Saturnus in Ariete sub radiis...* (35r–37r); **Ptolemaica (37r–41r)**; Messahallah, *De cogitatione* (41r–42r); Messahallah, *Liber interpretationum*, ch. 1 (42r); Jafar, *Liber imbrum* (42v–47r); 'Iudicabis autem particulariter de aeris mutatione sic. In coniunctione Solis et Lune considera quod signum...' (47v–50v); 'Dixit Ptholomeus phylosophus: Habeto Lunam significatione omnium rerum...' (51r–60v); 'De aspectibus planetarum ad Lunam. Cum Lune statum tam non omnino quam solummodo...' (60v–61v); 'Modis quatuor debilitari Lunam novimus, quorum primus memoratus...' (62r–63v); Pseudo-Alcabitius, *Tractatus de coniunctionibus planetarum* (63v–65r); 'Secundum quia Saturnus preest primo climati, Iupiter 2...' (65r–65v); sphere of Apuleius/Pythagoras (65v); table for computing the zodiacal position of the Moon, with canon (66r); three short paragraphs of astronomy (66v); two tables of lunar mansions (67r–67v). Blank: 26r.

Bibl. G. Baronci, *Manoscritti Chigi. Inventario* (handwritten catalogue), II, 77v.

37r–41r 'De planetis incarnatione (?) novem mensium in humanis corporibus. Saturnus mense primo materiam infuerit et coagulat atque desicat — piger quoque Venus aderit.'

= **Pseudo-Ptolemy, *Iudicia* (B.3)**, excerpt (a dozen of chapters). No glosses. An inserted sheet of paper of smaller size (f. 39^{bis}) contains notes, apparently in the hand of the scribe, on the 12 houses (39^{bis}r) and further notes in Italian (39^{bis}v).

Vatican, Biblioteca Apostolica Vaticana, Chigi F.IV.48

s. XII^{ex}–XIIIⁱⁿ (c. 1200) for f. 35–89 (information Stefan Georges). **Prov.:** Athanasius Kircher, who addressed the whole MS to Pope Alexander VII in 1662.

Parchment, 89 f. (new printed foliation in lower right corner), 170 × 115 mm. MS made of three parts, each copied by a single neat hand. The third part (f. 35–89, late medieval foliation 23–77, initials roughly painted in red and green, titles in red, 30–31 lines) contains the Ptolemaic section only. The second part (f. 14–34, 12th c., late medieval foliation 1–21) contains Hermann of Reichenau's texts on the astrolabe (*De mensura astrolabii*, *De utilitatibus astrolabii* and *De horologio viatorum*) and a few chapters from the old corpus on the astrolabe. The first part (f. 1–13) is Athanasius Kircher's presentation of these two old MSS to Alexander VII (cf. f. 2r: 'Duo tractatus in hoc presenti codice B. P. continentur, quorum prior est de compositione astrolabii, alter Quadripartitum Ptolomaei de iudiciis astrorum in 4 libros divisus...'). The third part, made of seven signed quires of eight folia each plus one bifolium at the end, lacks one folio at the beginning and one bifolium between f. 83 and 84 (thus the quires are as follows: f. 35–41, 42–49, 50–57, 58–65, 66–73, 74–81, 82–85 and 86–89). The single late medieval foliation of f. 14–89 shows that the two parts were already bound together at an early date, by which the bifolium between f. 83 and 84 had already been lost.

Ptolemaica (single text) (f. 35–89). Blank: 89.

Bibl. G. Baronci, *Manoscritti Chigi. Inventario* (handwritten catalogue), II, 120v; Kristeller 1963–1992, II, 473.

35r–88v 'III. Quanta sit utilitas ex futurorum preno<ticatione>. IIII. De natura VII stellarum mobilium... (chapter index of Book I, missing the beginning). Incipit primus Ptholomei liber. Capitulum primum de his comuniter que ad totum <pertinent>. (35v) Quadripartitum Ptho<lomei> [title added in upper margin by another hand]. I<uxta providam philosophorum> assertionem quos videlicet in prescientia futurorum astris signa prebentibus — adhibeatur intentio liquidius aperire sufficiet. Explicit liber Ptolomei.'

= **Ptolemy, *Quadripartitum*, tr. Hugo Sanctelliensis (A.2.2)**. I, 35r–57r; II, 57r–72r; III, 72r–83v; IV, 84r–88v. The text has two lacunae: (1) the beginning of the chapter index (and work title?), due to the missing folio before f. 35; (2) the section III.14–IV.7, due to the missing bifolium between f. 83 and 84 ('... contra naturam sunt committent, mollos, effeminati, licita transgredi... /84r/ ... in nativitate itidem si hoc ab ascendente prodite videantur...'). A few short marginal notes by a late medieval hand.

Vatican, Biblioteca Apostolica Vaticana, Ott. lat. 1552

s. XV². **Prov.:** Giovanni Angelo, duke of Altemps (d. 1620) (cf. inner front cover: 'Ex codicibus Ioannis Angeli ducis ab Altaemps').

Parchment, 128 f., a single very neat hand, decorated initial f. 1r.

Astronomy and astrology: Sacrobosco, *De sphaera* (1r–19v); *Theorica planetarum Gerardi* (20r–32v); Alcabitius, *Introductorius* (33r–73v); **Ptolemaica (74r–74v and 74v–82v)**; Hermes, *Centiloquium* (83r–87v); Bethen, *Centiloquium* (87v–92r); *Capitula Almansoris* (92r–99r); Hermes, *Liber de accidentibus* (99v–101v); 'Cum ego Iohannes Plinus essem in Alexandria civitate Egiptiorum reperi in quodam libro qui salus vite dicebatur hec 12 experimenta

quem librum fecit Archinus phylosophus et ego ipsum transtuli de Arabico in Latinum. Cum Luna fuerit in augmento in primo gradu Arietis stante in eodem gradu...' (101v–102v); Thebit Bencora, *De imaginibus*, beginning only, with text crossed out and following pages teared out (102v); Michael Scot, *Liber introductorius*, excerpt 'De noticia 12 domorum per quam scitur que sunt domus naturales et que occidentales...' (103r–127v). Blank: 128.

Bibl. *Inventarii codicum manscriptorum latinorum Bibliothecae Vaticanae Ottobonianae* (handwritten catalogue), I, 298v–299r.

74r–74v 'Cum proiectiones radiorum stellarum scire volueris — locus radiationis equate.'
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6).** No glosses.

74v–82v 'De iudiciis partium. Et primo de parte fortune, hec autem accipitur in die a Sole in Lunam, in nocte vero a Luna in Solem, et proicitur ab ascendente. Quoniam et in primo libro partium terminos et loca posuimus, iudicia earundem subministrare proposuimus. Pars fortune et eius dominus corpus et que ad corpus attinent — partis significationem aut eius domini hiis duodecim mensibus mutatur. Explicit.'
= **Pseudo-Ptolemy, *Liber de iudiciis partium* (B.8).** No glosses.

Vatican, Biblioteca Apostolica Vaticana, Ott. lat. 1826

s. XIII–XIV (f. 65–79, the rest of the MS dates from the middle of the 14th c., except for 15th-c. additions f. 39v–40v, 62–64, 79r, 86rb and 141–156). **Or.:** Italy (Italian hands acc. Pedersen; Genoa mentioned f. 46va–50vb; most of the 15th-c. additions are by the same hand, which might be that of Beltramus of Siena, cf. f. 86rb and 146r; Florence is also mentioned f. 86rb and 141r).

Parchment, 156 f., several hands, one of which copied f. 65–78.

Astronomy: canons of Toledan tables (1r–38v); tables of the Sun's entry into the signs for 1440–1444 and 1448–1480 (39v–40v); John of Ligneris, *Canones Tabularum Alfonsinarum* (41ra–46rb); canons of astronomical tables mentioning Genoa and the years 1332 and 1334 (46va–50vb); John of Ligneris, *Canones primi mobilis* (51ra–61va); almanac 1432–1467 (62r–62v); 'Ad inveniendum veram coniunctionem et oppositionem Solis et Lune...', with diagram (63v); astrology 'De carestia (!) et fame vel habundantia et vilitate. Ptholomeus. Quando Iupiter fuerit in signo aquatico...' (64r–64v); **Ptolemaica (65r–78v)**; table 'Motus planetarum et argumentorum in omni annali revolutionum...' (79r); Alfonsine tables (80r–113r), with two added tables of planetary roots, one for Florence and the other for Siena in 1420 'per me Beltramum examine' (86rb); astronomical tables, partly by John of Ligneris (113v–140v); tables of conjunctions Sun-Moon 1393–1753 (141r–142r), with mention of Florence (141r); lists of eclipses 1428–1444 (142r); ascension tables for 48° (142v–143r); lunar tables (143v–144v); tables of lunar mansions (145r–145v); tables of planetary roots 1421–1468 'examine per me Beltramum in civitate Senarum [Siena]' (146r–147v); astronomical tables with canons (148ra–156va). Blank: 39r, 63r, 79v.

Bibl. *Inventarii codicum manuscriptorum Latinorum Bibliothecae Vaticanae Ottobonianae* (handwritten catalogue), II, 92v; L. Thorndike, 'Notes upon Some Medieval Latin Astronomical, Astrological and Mathematical Manuscripts at the Vatican, Part II', *Isis* 49 (1958), 34–49: 35–38; Pedersen 2002, I, 177.

65r–78v 'Claudii Ptholomei mathematicorum Sintaxeos Elmeruguisti capitula VII libri incipiunt. Quoniam fixe stelle eandem semper positionem conservant ad se invicem... (chapter index). <P>ertranseuntes in ante hoc quod coordinatis, o Syre, et circa rectam et circa inclinatam speram contingentia — (78r) Que ultra cubitum Australis Chele: <Gradus longitudinis> Cancrī XIX VI^a. <Gradus latitudinis> Not<us> II ter<tie> <Magnitudo> IIII^a.
= **Ptolemy, *Almagesti*, tr. Sicily c. 1150 (A.1.1)**, Book VII, ending abruptly in the star catalogue with the sign of Cancer at the bottom of f. 78r and with an empty table on f. 78v. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Ott. lat. 1850 [Plate 5]

s. XIII² (f. 8–64, Moerbeke's translations are dated February to 31 December 1269, cf. f. 16vb, 22va, 33vb, 44vb, 52vb, 55rb, 60ra and 61vb, so that the Ptolemaic section was probably translated and copied in early 1270). **Or.:** f. 8–64 were copied by William of Moerbeke in Viterbo. **Prov.:** Pietro Barozzi, bishop of Padua (see Clagett); Andreas Coner in 1508 (cf. f. 7^{bis}r: '1508 Venetiis, Andreae Coneri Germani'); Marcello Cervini (future pope Marcellus II) in 1527; Cardinal Guglielmo Sirleto (1514–1585); Giovanni Angelo, duke of Altemps (d. 1620) (cf. f. Ir: 'Ex codicibus Ioannis Angeli ducis ab Altaemps').

Parchment, I + 75 f., composite MS made of three parts, the second of which (f. 8–64) is in a single hand, that of William of Moerbeke.

Scientific texts (f. 8–64): Alhazen, *De speculis comburentibus* (8ra–9vb); *De ponderibus Archimedis* (10ra–11rb); Archimedes's scientific works in William of Moerbeke's translation (11va–60ra); Heron of Alexandria, *Catoptrica*, attr. Ptolemy: 'Claudii Ptolemei de speculis... Explicit liber Ptolomei de speculis' (60rb–61vb); ***Ptolemaica* (62ra–64vb)**. This part is preceded by an added folio with a table of contents by Andreas Coner (7^{bis}v). The first part of the MS contains a book published in Florence in 1494 (1r–7v). The third part of the MS contains Johannes Peckham, *Perspectiva communis*, incomplete, 14th-c. hand (65r–75r).

Bibl. *Inventarii codicum manuscriptorum Latinorum Bibliothecae Vaticanae Ottobonianae* (handwritten catalogue), II, 96r–96v; J. F. Daly, C. J. Ermatinger, 'Mathematics in the Codices Ottobiani latini', *Manuscripta* 9 (1965), 12–29: 15–17; Clagett 1964–1984, II, 60–68; Kristeller 1963–1992, II, 433; *I codici latini datati della Biblioteca Apostolica Vaticana*, I: J. Ruysschaert, A. Marucchi, *Nei fondi archivio S. Pietro, Barberini, Boncompagni, Borghese, Borgia, Capponi, Chici, Ferrajoli, Ottoboni*, Città del Vaticano, 1997, 175–76 (no. 398).

62ra–64vb 'Claudii Ptolemei liber de Analemme incipit. Considerati mihi, o Syre, angulorum acceptorum in locum gnomonicum quod rationale et quod non, habitum quidem virorum illorum in lineis accidit admirari etiam in hiis et

valde acceptare — horarii autem ad eum qui secundum verticem, descensivi autem ad horizontem. Habent autem et canones ita' (followed by the table 'Cancri principium horarum 13').

= **Ptolemy, *Liber de Analemmate*, tr. William of Moerbeke (A.5.1).**
A few short marginal notes, including Greek words, by the scribe.

Vatican, Biblioteca Apostolica Vaticana, Ott. lat. 2234

s. XIII¹. **Or.:** perhaps northern Italy (mention of Cremona f. 64v). **Prov.:** faded or erased note on f. 64v, perhaps in the hand of the glossator: 'Iste liber est ... (?) 1396 die 8 (?) Octobris ... (?)'; Cardinal Marcello Cervini (1501–1555); Cardinal Guglielmo Sirleto (1514–1585).

Parchment, 64 f., one or two similar hands (f. 2ra–42ra and 43ra–64r), with a third, contemporary or somewhat later hand, responsible for the glosses and for the added notes f. 1r–1v, 42ra–42vb and 64v, decorated initials.

Astronomy: added notes on the length of the solar year, mentioning the years 1297 and 1336, with two tables of planetary positions, which do not seem to make sense (1r); added list of theorems (?) 'Prima duodecimi libri. Prima: Omnium duarum superficierum...' (1v); **Ptolemaica (2ra–42ra)**; added note: 'Iste modus est sufficiens in arte eptagoni cadentis in circulo...' (42ra–42vb); Menelaus, *Spherica* (43ra–53vb); 'Volo ostendere quod omnium trium linearum proportionalium...' (53vb); Theodosius, *Spherica*, tr. Gerard of Cremona (54ra–64rb); added astronomical notes mentioning the city of Cremona (64v).

Bibl. *Inventarii codicum manuscriptorum Latinorum Bibliothecae Vaticanae Ottobonianae* (handwritten catalogue), II, 185v; J. F. Daly, C. J. Ermatinger, 'Mathematics in the Codices Ottobiani latini', *Manuscripta* 9 (1965), 12–29: 22–23; F. Fossier, 'Premières recherches sur les manuscrits latins du cardinal Marcello Cervini (1501–1555)', *Mélanges de l'Ecole Française de Rome. Moyen Âge, Temps Modernes* 91 (1979), 381–456: 443 (no. 464) and 450.

(2ra–42ra) '... [erased title]. Scientia species habet quarum melior post scientiam — (40vb) sunt digniores ut evanescant et destruantur. Completa est declaratio eius. Completus est tractatus novus, est ultimus libri.'
= **Geber, *Liber super Almagesti* (C.1.2).** Preface, 2ra–2va; I, 2va–5va; II, 5va–10va; III, 10va–12va; IV, 12va–16vb; V, 16vb–23ra; VI, 23ra–29ra; VII, 29ra–34va and 41ra–41va; VIII, 41va–42ra and 35ra–37rb; IX, 37rb–40vb. F. 41–42 should be placed between f. 34 and 35. A few glosses. The title of the book is given twice f. 1v: 'Liber astrologie Ieber' (contemporary hand, perhaps that of the scribe) and 'Geber de astrologia' (later hand).

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1116

s. XV^{med} (after 1441, cf. f. 192v). **Or.:** Low Countries, f. 24–192 copied by Johannes de Blisia (Bilzen, near Tongeren). **Prov.:** Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, 192 f. MS made of two parts, each copied by a single hand (f. 1–23 and 24–192).

Medicine, astral magic and astrological medicine: Avicenna, *Canon*, part of Book I (1ra–23vb); *Astronomia Ypocratis*, first three lines only (24r); ‘Virga visoria. Si vis ubilibet terrarum conficere virgam visoriam...’ (25r); Henry Bate of Mechelen, *De diebus creticis periodorumque causis*, beginning only (26r); Hermannus de Schildesche, *Divisio metrica ac generalis descriptio totius philosophie ac omnium artium* (26va–26vb); texts and excerpts of medicine (27r–113r); prayers (113v); ‘Alique ymagines constellationes. Ymago ad destruendum civitatem. Fiat ymago sub hora et sub ipsius ascendente civitatis...’ (114ra–115vb); Hermes/Belenus, *De viginti quattuor horis* (115va–115vb); Hermes/Belenus, *De imaginibus diei et noctis* (115vb–116vb); Hermes/Belenus, *De quattuor imaginibus magnis* (116vb–117ra); Hermes/Belenus, *De discretione operis differentia ex iudiciis Hermetis* (117ra–117vb); Henry Bate of Mechelen, *De diebus creticis periodorumque causis* (118ra–125ra); notes of medicine (125rb); ‘Inchoat canon circuli 16 angulorum infrascripti de diebus creticis. Circulus 16 angulorum describit dies creticos...’ (125v); **Ptolemaica** (125v–126v); ‘Tractatus Abel de ymaginibus. Et hunc librum Albertus Magnus vocat...’ (127r–127v); *Regimen sanitatis* (128r–131va) and other texts of medicine (132ra–179v); recipes (191v–192r); two horoscopes of nativity for ‘Lodwije Gheberte’ born in 1441 and ‘Fighure de gheborn Iakennin eende de 5e dach in Marcii int jaar 1440’ (192v). Blank: 24v, 25v, 180–191r.

Bibl. IMLB, 425; L. Schuba, *Die medizinischen Handschriften der Codices Palatini Latini in der Vatikanischen Bibliothek*, Wiesbaden, 1981, 62–66.

125v–126v ‘Sentencia Linco<l>ensis de diebus creticis. Habetur nunc sententia amicorum scilicet de diebus creticis super verbo 60 Centiloquii. Crises verius significatio sunt hore etc. In isto verbo 60 Ptolomeus tria tangit, primum est de occasione dierum creticorum — immo Luna attestatur super egritudines acutas, et est finis predictorum.’
= *Glosa super 60 propositionem Centilogii Ptholomei* (C.3.2). No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1122

s. XIVⁱⁿ (f. 117–138). **Or.:** southern France (f. 117–138). **Prov.:** Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Parchment, 138 f., composite MS made of three parts, I: f. 1–55 (a single hand, 13th c.); II: f. 56–116 (several hands, 14th c.); III: f. 117–138 (two or three hands).

Astrology and astronomy (f. 117–138): Franco de Polonia, *Tractatus de turketo* (117ra–118vb); ‘Investigantibus chilindri dispositionem qui dicitur horologium viatorum...’ (118vb–120va); Peter Peregrinus of Maricourt, *De magnetes* (120va–124ra); **Ptolemaica** (124rb–134vb); Avicenna, *De anima*, excerpt ‘Diximus igitur primum quia vis ex hoc quod est...’ (135ra–138ra); *Revelatio Esdrae*, added 14th c. (138vb). The other parts of the MS contain medical texts: Avicenna, *De anima* (1ra–55va); Arnold of Villanova, *De proportionibus medicamentorum* (56ra–79v); Arnold of Villanova, *De considerationibus operis medicine* (80ra–104vb); Arabic-Latin glossary of medical terms (105ra–116va).

Bibl. *IMLB*, 426; Zinner 1964, 11; L. Schuba, *Die medizinischen Handschriften der Codices Palatini Latini in der Vatikanischen Bibliothek*, Wiesbaden, 1981, 83–85; d'Alverny 1994, 83–84; Lemay 1999, I, 380–81.

124rb–134vb ‘Incipit Centiloquium Ptolomei. Scientia astrorum ex te et illis. Et non oportet peritum illorum iudicare secundum formam effectuum particularium — (126va) et si non ambulaverit rebellis est de eodem climate. Explicit. Amen. (127ra) Mundanorum ad hoc et ad illud mutatio est corporum celestium... 1. Scientia astrorum ex te et illis est... Quod dixit, ex te et illis, significat quod qui res futuras prenoscere desiderat — quanto melius quivimus exposuimus.’ = **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3). ‘Mundanorum 1’, 124rb–126va, and ‘Mundanorum 2’, 127ra–134vb. A few short marginal notes by the scribe and by at least one later hand.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1188

s. XV². **Or.**: MS mostly copied by Nicolaus Mückenberger, cleric of the diocese of Meissen (Saxony), cf. f. 119r: ‘Supplicat S. V. devotus v<ir> Nicolaus clericus Mis<ensi> diocesis non coniugatus...’ and f. 142r: ‘S. V. humiliter exponitur pro parte devoti oratoris N<icolai> Mugkenbergeri clerici diocesis Mis<nen>sis...’ (see also Schuba). A 16th-c. librarian of Heidelberg added on f. 1r ‘M<agistri> Nicolai Mückenbergers liber de tota scientia medicinae astronomicis mixtus multis opusculis refertus.’ **Prov.**: Elector Palatine Ottheinrich (1502–1559); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, 182 f., one main hand (Nicolaus Mückenberger) copied f. 1–142 and several hands copied f. 142–182.

Medicine, astrology and various in a collection of short texts and excerpts not clearly distinguished from one another. The Ptolemaic text is part of a section (f. 120r–140r) devoted to astrology, containing: Hermes, *Liber de quindecim stellis* (120r–120v and 121v); ‘Si vis scire annos firdarie minue ab annis Christi 15 et eicias residuos...’ (120v); ‘Qui nascitur in Capite Arietis erit malus...’ (121r–121v); Albumasar, *Flores*, excerpt (122r–123v); Messahallah, *De revolutionibus annorum mundi*, first lines only (123v); ‘Almath est Caput Arietis et sunt stelle tres...’ (124r–124v); ‘Difficile cur sit iudicare dies in quibus effectum ex aeris mutacione...’ (124v); Leopold of Austria, *De astrorum scientia*, first lines only (124v–125r); *tonitruale* ‘In Ariete si tonuerit herbe habundabunt...’ (125r), followed by other *prognostica* and short astrological chapters (125r–129r); Hermes/Belenus, *De viginti quattuor horis* (129r–129v); Hermes/Toz Graecus/Germa Babiloniensis, *De duodecim annulis* (129v); **Ptolemaica** (130r–133v); ‘Nota. Luminaria astrorum ad nos multiplicata...’ (134r–135v); ‘Ad inveniendum ascendens nativitatis alicuius, dicunt omnes astronomi...’ (136r); ‘Si vis scire vim et debilitatem, multitudinem et paucitatem pluviarum...’ (136v); ‘Hec ex quinto capitulo Alkindi, super quo nota Iohannem canonicum Coloniensem. Ptolemeus primo Quadripartiti: In oriente orizontis nostri...’ (136v); Albumasar, *Flores*, excerpt (137r–140r). Full description of contents in Schuba.

Bibl. *IMLB*, 442; Kristeller 1963–1992, II, 393 and 589; L. Schuba, *Die medizinischen Handschriften der Codices Palatini Latini in der Vatikanischen Bibliothek*, Wiesbaden, 1981, 158–64; Kristeller 1963–1992, VI, 358.

130r–133v ‘Rerum, o Iesure, in quibus est pronosticabilis scientie stellarum profectio magnas et precipuas duas esse deprehendimus — et pervenerint radii...’
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**, excerpts from all four books without subtitles or clear separation between them. The text breaks off mid-sentence at the bottom of f. 133v and it is not clear whether one or several pages are missing or whether the scribe stopped writing at that point. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1340

s. XV² (1458–1459). **Or.:** University of Erfurt, cf. f. 94ra: ‘Explicit tractatus scriptus de iudicio urine non vise, scriptus per me Conradum Maltzfeld Erffordie anno domini 1458...’ and f. 388va: ‘... et est completus per Iohannem Snippem de Geysmaria Erfordensis studii anno domini millesimo quadragesimo quinquagesimo IX [1459] ultima die illius anni predicti, in quo etiam anno confederati sunt rex Bohemie et langravius Thuringie per copulam filie landgravii et filii regis Bohemie’); see also title f. 15va (below). **Prov.:** ‘Hieronimus Stöckel von Weissenburg Ioanni Kiliano dono dedit’, 16th c. (f. IIIr); Elector Palatine Ottheinrich (1502–1559); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, III + 428 f. (f. 154–155, 199, 345 and 405 accidentally omitted in foliation), three main hands: I [Conradus Maltzfeld], f. IIIv, 1–190, 203va–275 and 422vb–425; II, f. 192–203va; III [Johannes Snippe], f. 277–422va.

Astronomy and astrology: table of contents of the whole MS (IIIv); Prophatius Judeus, *Quadrans novus* (1ra–15va); ‘Incipio nunc modum compositionis chilindri bona valde et formalis secundum modernos Erffordie correcta et examinata. Pro compositione chilindri quod est horalogium itinerantium...’ (15va–22va); Robertus Anglicus, *Quadrans vetus* (22vb–28rb); Franco de Polonia, *Tractatus de turketo* (28va–30va); Peter Peregrinus of Maricourt, *De magnete* (30va–34vb); ‘Instrumentum ad meridianam que alio nomine cenith meridianum dicitur construere et modum ipsius inveniendi subiungere volo. Paretur lamina lapidea aut enea...’ (34vb–35va); ‘Instrumentum Iohannis Gisonis ad capiendum altitudinem Solis et stellarum et observationes faciendas utile. Quoddam ligneum vel eneam aut ferreum quadratum...’ (35vb–36ra); ‘Aliud instrumentum pro predictis inveniendis videlicet altitudinem stel<larum> etc. Fac tres planas regulas de ligno vel de ferro...’ (36va–37rb); Johannes de Harelbeke, *Tractatus de spera solida* (39ra–47rb); Petrus de Sancto Audomaro, *Tractatus de semissis*, chs 1–3 (47va–52rb); ‘In spera noctis est quedam tabula rotunda que est divisa in 12 partes equales...’ (52va–53va); Johannes Simon de Zelandia, *Speculum planetarum* (53vb–58v); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (59ra–60rb); albion ‘Incipit prefatio in compositionem instrumentorum sequentium de eclipsi. Pro faciliiori modo habendo et multiplici labore...’ (60va–73va); Pseudo-Albertus Magnus, *Speculum astronomie* (75ra–82va); ‘Incipit commendatio astronomie et fundamentalia eiusdem [added title]. In principio creavit

Deus celum et terram. Consuteum autem est dilectissimi sicut scitis in principiis librorum...’ (82vb–84ra); John of London, *De motu octave spere* (84rb–85rb); ‘Incipit tractatus magistri Ruperti de iudiciis infirmitatum. Verba viri prudentis et fidelis domini Ruperti. Nascentium et egrotantium secundum influentiam corporum supercelestium. Dico quod stelle magnum habent effectum...’ (85va–87vb); *Astronomia Ypocratis* (88ra–90vb); Guillelmus Anglicus, *De urina non visa* (91ra–94ra); Leopold of Austria, *De astrorum scientia* (94ra–160vb); Alcabitus, *Introductorius* (165ra–190rb); Alkindi, *De mutatione temporum* (192ra–203ra); ‘De coniunctionibus planetarum. Nota de coniunctionibus planetarum. Coniunctio enim trium superiorum est triplex...’ (203ra–204vb); Robert Grosseteste (?), *De impressionibus aeris* (205ra–207vb); astrometeorology ‘Nota quod Luna moratur in signo quolibet per 2 dies et 6 horas...’ (207vb–209rb); Firminus de Bellavalle, *De mutatione aeris* (209va–242ra); **Ptolemaica (245ra–258vb)**; *Theorica planetarum Gerardi* (259ra–265va); ‘Sequitur compositio spere in qua videbitur incensio, oppositio, signa Solis et Lune et gradus eorundem. Volens formare unam figuram...’ (265vb–267rb); ‘Compositio instrumenti ad inveniendam veram coniunctionem vel oppositionem. Ad faciendam figuram in qua facitur...’ (267va–268rb), with diagrams and tables (268v–273v); Arnold of Villanova (?), *De iudiciis particularibus pertinentibus ad medicinam* (274r–275r); Haly Abenragel, *De iudiciis astrorum* (277ra–388va); Abraham Avenezra, *Liber de nativitatibus* (389ra–403ra); Haly Embrani, *De electionibus horarum* (403rb–422va); alphabetical subject index of the MS (422vb–425rb); added notes and extraneous material (425v–428v), including 16 horoscopes of syzygies in 1476 (427r and 428v). Blank: I–II (except notes), 37v–38v, 74, 161–164, 190v–191v, 242v–244v, 275v–276v, 427v–428r.

Bibl. *IMLB*, 481–82; Thorndike 1948, 42–43; Zinner 1964, 11–12; Pedersen 1983–1984, II, 658; Schuba 1992, 1–8; Lemay 1999, I, 381–86; Paravicini Bagliani 2001, 16; Moulinier-Brogi 2011, 194–95.

245ra–258vb ‘Incipit Centiloquium Ptholomei. Mundanorum ad hoc vel ad illud mutatio corporum celestium... Haly. Scientia astrorum ex te et ex illis: Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Ptholomeus, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — (258va) et quanto melius potuimus exposuimus. Ptholomeus in hoc loco tricas et tricarum nomina posuit... Stelle que cum caudis sunt 9 — in regibus et divitibus apparebit. Explicit Centiloquium Pto<lom>ei.’

= **Abuifafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**. The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 258va–258vb (see below). The scribe or another hand added to the explicit the ending of Plato’s translation: ‘Perfecta est huius libri translatio 17 die mensis Martii, 12 die Gumendii secundi anno Arabum 5302.’ The scribe also added after the explicit a short bibliographical notes of Ptolemy as Egyptian king at the time of the translation of the Septuagint. A few glosses by another (?) hand f. 245r–248v.

258va–258vb ‘Ptholomeus in hoc loco tricas et tricarum nomina posuit... Stelle que cum caudis sunt 9 — in regibus et divitibus apparebit.’

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1354

s. XV² (in or after 1464, cf. f. 160vb: 'Explicit excerptum de lectura super Alkabitium finitum 1464, quo anno 27 nives notabiles ceciderunt et omnes insimiles permanserunt usque in ieiunium'; eclipse tables 1464–1479 and 1462–1481 on f. 35r; the year 1463 is the radix of the calendar f. 37r–42v and of computus tables f. 79v and 86v). **Or:** Regensburg (cf. f. 46r–53r and Schuba). Pingree states that the MS was copied in Prague in 1470 on account of a colophon f. 193vb, but this colophon is not found in the present MS. **Prov.:** Elector Palatine Ottheinrich (1502–1559); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, 251 f., a single hand.

Mathematics, astronomy and astrology: astronomical and astrological notes (1r–1v); stereometry in German 'Modus faciendi virgam visorie. Item wen du hast...' (2ra–2rb); stereometry 'De arte visorandi cubica. Virgam visoriam planam ad vasorum calumpniarum capacitatem...' (2va–32ra); excerpts from Nicolaus Cusanus 'Ex dyalogo ideote et oratoris. Sciendum quod unitas non attingitur...' (32rb–32va); notes, tables and diagrams of computus, astronomy and astrology (32va–36v); calendar 1463–1520 (37r–42v); *horologium* 'Si lineam rectam super lineam orthogonalem...' (43r–45v); syzygy tables for the meridian of Regensburg, with canons (46r–53r); ascension tables (53v–56r); table: properties and influences of the 12 signs (56v); Hermes, *Liber de quindecim stellis* (57r–58v); **Ptolemaica** (58v–59v); John of Murs, *Tabule permanentes* (60ra–60vb); 'Per septem planetas qui sub firmamento sunt nutu Dei omnia disponuntur. Saturnus est frigidissimus...' (60vb); astronomical tables and canons (61v–119va); notes 'Item principium proprium in arismetria est unitas... Ex libro nono Euclidis...' (120ra–120vb); 'Flebothomia est universalior farmacia...' (121ra–126rb); comm. on Alcabitus's *Introductorius* 'Ysagoge Alkabicii. Ptolomeus in prima propositione Centilogii dicit scientia stellarum ex te...' (126va–160rb, this comm. differs from John of Stendal's); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (160va–166ra); 'De altitudine planetarum. Autoritate Alfragani differentia 21 necnon Ptolomei...' (166va–167ra); Leopold of Austria, *De astrorum scientia* (169ra–233rb); 'Si partem vis scire fortune que valde necessaria...' (233va); Nicole Oresme, *De proportionibus proportionum* (233vb–237rb); Messahallah, *Liber interpretationum* (237va–238rb); *Astronomia Ypocratis* (238va–241rb); astrological and astronomical notes (241va–243va); *Picatrix*, excerpts (243va–246rb); 'In firmamento celi sunt Sol et Luna et dividunt diem et noctem...' (246va–250v); 'Circa propositionem sextam virge visorie...' (251v). Blank: 61r, 167v–168v, 251r.

Bibl. *IMLB*, 484; Thorndike 1948, 43–44; L. Thorndike, 'Notes upon Some Medieval Latin Astronomical, Astrological and Mathematical Manuscripts at the Vatican, Part II', *Isis* 49 (1958), 34–49: 45–47; Zinner 1964, 13; Pingree 1986, XLVI; Kristeller 1963–1992, VI, 360; Schuba 1992, 27–33; R. Kremer, 'Cracking the *Tabulae permanentes* of John of Murs and Firmin of Beauval with Exploratory Data Analysis', in *Editing and Analysing Numerical Tables. Towards a Digital Information System for the History of Astral Sciences*, eds M. Husson, C. Montelle, B. van Dalen, Turnhout, 2021, 363–422: 412–13.

58v–59v

'Liber de imaginibus. Dixit Ptolomeus: Edidi hunc librum de imaginibus super facies signorum... Cum volueris ligare latronem ut domum aliquam non intret — si dicitur eidem musce moriamini, mors contingit.'

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**. The text opens with the closing paragraph, omits the introduction and breaks off in the sign of Aquarius. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1365

s. XIV^{ex} (copy completed on 19 October 1385, cf. colophon). **Or.:** copied by one Mengotus Itelbrot (cf. colophon) probably in Germany (Georges) rather than France (as stated by Kunitzsch and Schuba). **Prov.:** Elector Palatine Ludwig III (1410–1436); Johannes Virdung of Hassfurt annotated the MS, which probably corresponds to the ‘*Almagestum Ptholomei*’ in his inventory of the mathematical books in the library of the Church of the Holy Spirit in Heidelberg (MS [–]Vatican, BAV, Pal. lat. 1439, f. 203v — see Schuba, xviii); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Parchment, I + 206 f., a single neat hand, large painted initials on f. 1r and at the beginning of each book of the *Almagest*, numerous decorated initials.

Ptolemaica (single text), except for added title by a 16th-c. hand ‘*Ptolomei Almagestum Gerardo Cremonensi interprete ex Arabico, scriptum anno 1385*’ (Ir) and a miniature representing Mary’s coronation (Iv). Blank: 206v.

Bibl. *IMLB*, 487; Zinner 1964, 13; Kunitzsch 1986–1991, II, 15; Kristeller 1963–1992, VI, 360; Schuba 1992, 57; Georges (forthcoming).

1r–206r ‘Incipit prologus super Almag<esti>. Quidam princeps nomine Albuguafe in libro suo quem scientiarum electionem et verborum nominavit... (2r) Bonum fuit scire quod sapientibus non deviantibus visum est — abbreviationem, arrogantiam et collaudationem, tunc iam sequitur et honestum est ut ponamus hic finem libro. Explicit liber Ptolomei Pheludiensis qui dicitur Almagesti, totum continens astronomiam. Hunc librum Gerardus Cremonensis transtulit de Arabico in Latinum. Et hic liber est perfectus per manus Mengoti Itelbrot anno domini M^oCCC^oLXXXV^o feria quinta post Gali [19 October] et a nativitate sua anno quadragesimo imperfecto.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1r–1v; Book I, 2r–15r; II, 15r–34r; III, 34r–49r; IV, 49r–64r; V, 64r–84v; VI, 84v–104v; VII, 104v–116r; VIII, 116r–126r; IX, 126r–142r; X, 142r–155r; XI, 155r–172r; XII, 172r–187v; XIII, 187v–206r. Substantial glosses by the scribe (some quoting Jordanus), a selection of which have been edited by Zepeda 2013, 390–97 (see also Zepeda 2018, 83). Three of these glosses give the precessional increment for 1394 and 1414 in the star catalogue (f. 114v). Marginal notes by Johannes Virdung, mainly the subject matters (e.g. 6r, 7r, 9v–10r, 11r, 13v–14v, 18v–19r, 29v, 30v, 31r, 43r–44v, 47v, 48v, 81r).

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1366

s. XVI¹. **Or.:** Germany. **Prov.:** ‘Das buchlin ist das Syrus klainmilhers’ in a different hand from the scribe’s (f. IIIr); Heidelberg, Bibliotheca Palatina, c. 1600; Vatican library in 1623.

Paper, III + 82 f., a single hand.

Ptolemaica (single text). Blank: I–II, IIIv, 79v–82v.

Bibl. *IMLB*, 487; Zinner 1964, 12; Schuba 1992, 58.

1r–79r ‘Inquit Ptho<lome>us Phelusiensis primo Quadripartiti: Astronomia est scientia qua duorum luminarium et quinque planetarum figure sciuntur secundum motum suum in comparatione unius ad alterum... (1v) Primus Quadripartiti liber. Quare astrologia presupponit astronomiam, Quare astrologia presupponit astronomiam, que est completa, firma et stabilis — stelle possunt remove (?) mortem.’
= *⟨Epitome in Quadripartitum (II)⟩* (C.2.17). Introduction, 1r; Book I, 1v–23v; II, 24r–29r (29v blank); III, 30r–79r, abrupt end in the middle of a page in III.10. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1368

s. XV¹ (1426 for the Ptolemaic section – see colophon f. 45ra – and probably for f. 34–68, all in the same hand), XV² (f. 11–33) and XVI¹ (f. 1–10, in or after 1522). **Or.:** f. 34–68 were copied by Conrad of Dyffenbach (cf. colophon f. 45ra), probably in Worms or thereabouts, as suggested by the presence of several works, some unique to this MS, by Johannes de Wachenheim (f. 38r–41r, 49v–50r, 51r–56v and 57v–58v), the deacon of the church St Cyriacus in Worms-Neuhausen, who copied, in 1413, Geber’s *Liber super Almagesti* in what is now MS [→]Erfurt, UFB, Dep. Erf. CA 2^o 382. **Prov.:** Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper (except f. 1–10, on parchment), 68 f., composite MS made of three parts, each copied by a single hand: I, f. 1–10; II, f. 11–33; III, f. 34–68. Part III is undoubtedly copied in a single hand (Conradus de Dyffenbach) and not in two hands, as stated by E. Poulle, *Les instruments de la théorie des planètes selon Ptolémée: Équatoires et horlogerie planétaire du XIII^e au XVI^e siècle*, Paris, 1980, 93, who sees a new hand starting on f. 46r and dates f. 46–68 to c. 1460–1480 due to the positions of the apogees in the equatorium f. 59–62.

Astrology and astronomy: Sebastian Münster, *Instrumentum planetarum* (1v–10v); canons ‘Ad inveniendum veras auges planetarum...’ (11r–11v) and planetary tables (12r–33r); ‘Incipit tractatus de significationibus 12 signorum. Quando fuerit ascendentia in revolutionibus annorum cuiuslibet per se. Ascendens anni omni anno secundum quod sors revolutionis...’ (34r–34v); *Capitula Almansoris* (35r–36r); Hermes, *Centiloquium* (36ra–37ra); Zael, *Quinquaginta precepta* (37ra–38ra); ‘Sequuntur 150 considerationes Guidonis Bonatti de Forlivo abbreviate per magistrum Iohannem de Wachenheim decani ecclesie Sancti Cyriaci in Nuhusa prope Wormaciam anno Christi 1411. Tres sunt

motus ad movendum homines ad interrogandum...’ (38ra–41rb); Guillelmus Anglicus, *De urina non visa*, chs 3–9 (42ra–42va); Gergis, *De significatione septem planetarum in domibus*, attr. ‘Lupoldus’ and probably excerpted from Leopold of Austria’s *De astrorum scientia* (42vb–43va); **Ptolemaica (43vb–45ra)**; geographical coordinates of cities (46r); plotting of cities on a graduated map (46v–47v); star list adapted from Ptolemy’s *Almagest* ‘Secundum Ptholomeum septimo Almagesti, capitulo primo, in una linea sunt stelle subscripte ut sequitur...’ (48ra–48rb); table of houses for Worms, lat. 49°35’ (49r); table: points of essential dignities of each planet in each of the 360° ‘Tabule fortitudinum seu dignitatum septem planetarum in omnibus gradibus 12 signorum zodyaci cum locis stellarum complexionatarum in eisdem 12 signis ad annum domini 1420 et tertii verificatarum, quod est tempus magistri Iohannis de Wachenheim decani Nuhusen compositoris huius etc.’ (49v–50r); table: 12 signs and their mundane correspondances, incompletely filled (50v); star catalogue verified ‘per magistrum Iohannem decanum Nuhusen ad annum 1420’ (51ra–56va); star table arranged according to the planetary nature of the stars (56vb–57va); star table arranged according to the 12 signs ‘... et sic est finis stellarum magis authenticarum fixarum in celo in gradibus 12 signorum verificatarum per magistrum Iohannem de Wachenheim, decanum Nuhusem ad tempus 1400’ (57vb–58vb); representations of an equatorium (59r–62v); graduated celestial maps (63r–64v); plotting of cities on a graduated map (65v–66r). Blank: 1r, 33v–33^{bis}v, 41v, 45v, 48v, 65r, 66v–68v (except for a horoscope added f. 67r).

Bibl. *IMLB*, 488; Saxl 1915–1953, I, 10–15; D. B. Durand, *The Vienna-Klosterneuburg Map Corpus of the Fifteenth Century*, Leiden, 1952, 114–19; Kristeller 1963–1992, II, 393; Schuba 1992, 63–66; Lemay 1999, I, 386; E. Dekker, *Illustrating the Phaenomena: Celestial Cartography in Antiquity and the Middle Ages*, Oxford, 2012, 357–67 and 408–10; Blume/Haffner 2012–2016, II.1, 512–19.

43vb–45ra ‘Sequitur Centiloquium Ptho<lome>i continens 100 verba. Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... <D>ixit Ptolomeus: Iam scripsi tibi, Iesure, id est domine, libros tractantes de hoc quod operantur stelle in hoc seculo... Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras desiderat prescire — si autem e contrario erit hostis de regno, pro quo gloriose Virgini sit honor, laus et gloria per infinata seculorum secula. Amen. Et sic finitur Centiloquium Ptho<lome>i, scriptum per me Conradum de Dyffenbach anno domini 1426 festo Epiphanie domini etc.’

= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3), without the commentary. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1369

s. XV^{med} (the year 1444 appears in the medallion of Saturn f. 144v). **Or.:** southern Germany. F. 80r–87v preserve exactly the same sequence of texts as ↗Munich, BSB, Clm 3857, f. 1r–11r. **Prov.:** Johannes Virdung of Hassfurt, who received the MS from one Leonardus Luser in Boppard (near Koblenz), cf. f. 1r: ‘Liber magistri Iohannis Virdung de Hasfurt dono datus

a domino Leonardo Luser in civitate Boppardia', and notes added in his hand f. 69v and 155r–157v; Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, 158 f., several contemporary hands, one of which copied f. 80–143.

Astronomy and astrology: John of Gmunden, reworking of Richard of Wallingford's *Tractatus Albionis* (1ra–53vb); astronomical diagram 'Instrumentum de vera coniunctione' (54r); 'Duodecim domos adquare (?). In hoc canone docet equare duodecim domos...' (54va–55rb); Bethen, *Centiloquium*, incomplete (55va–56ra); 'Scalle altimetre mensio talis est in umbra recta...', added (57r–57v); astronomical diagram (58r); horoscopic diagram summarising the 12 houses (58r); representation of an astronomical instrument (58v); representations of the albion (59r–67v); 'Sciendum quod cum Luna coniungitur Saturno ipsa est infortunata...' (68va–69rb); 'Horarum communium tam a meridie quam nocte...', added by Johannes Virdung (69v); Johannes de Harelbeke, *Tractatus de spera solida* (70ra–79v); Albumasar, *Flores* (80ra–83va); Gergis, *De significatione septem planetarum in domibus* (83va–84vb); Jafar, *De pluviis et ventis* (84vb–85va); astrometeorology, at least partly from the *Liber novem iudicum* 'De revolutione anni et qualitate temporis. Ex conventu itaque vel oppositione vel ex Solis...' (85va–87va); Hermes, *Centiloquium* (87vb–89rb); **Ptolemaica (89va–100ra)**; Haly Embrani, *De electionibus horarum* (100rb–111va); Messahallah, *De revolutionibus annorum mundi* (111vb–116vb); Jafar, *Liber imbrium* (116vb–119rb); 'Forme et nomina mansionum Lune. Incipiunt nomina mansionum et quomodo formate sunt et etiam nomina earum. Prima mansio Lune caput Arietis incipit in primo gradu Arietis...' (119rb–119vb); Messahallah, *Liber receptionis* (120ra–127va); Thebit Bencora, *De imaginibus* (127vb–129vb); Zael, *Liber iudiciorum* (129vb–137ra: *Liber temporum* and *De electionibus*); *Capitula Almansoris*, attr. Messahallah (137ra–139rb); Bethen, *Centiloquium*, beginning only (139rb); Philo of Byzantium, *De spiritualibus ingeniis* (140ra–143ra); optics 'Utrum equales magnitudines equedistantes ab oculo...' (143rb–144rb); representations of the planets, with text in German (144v–147v); representations of the constellations (148r–151v); astronomical diagram (152v); astronomical diagram, incomplete (153v–154r); notes on directions added by Johannes Virdung (155r–157v). Blank: 56v, 68r, 139v, 152r, 153r, 154v, 158.

Bibl. *IMLB*, 488; Saxl 1915–1953, I, 15–20; Zinner 1964, 14; Kristeller 1963–1992, II, 393; Schuba 1992, 67–70; Blume/Haffner 2012–2016, II.1, 492–96.

89va–100ra 'Centum verba Pto<lome>i cum glosa. Verbum secundum. Dixit Pto<lome>us: quando eliget electionem melioribus non erit... Multi homines putaverunt quod Ptolomeus loqueretur hic de electionibus — Et ego Deum precor ut te diligat. Perfecta est huius libri translatio 17 die mensis Marti, 12 die mensis Gumedi et secundi anno Arabum 520.'
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, missing the preface and v. 1. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1371

s. XIII¹ or possibly XII² for f. 41–97, with decoration probably added around the middle of the 13th c. (f. 1–40, which form one codicological unit, are posterior to 1217, date of the translation of Alpetragius's *De motibus celorum* by Michael Scot). F. 41–97 are dated to the

13th c. by Haskins and Schuba, to '12^e/13^e siècle' by Pelzer, and to the middle of the 12th c. by Lemay, 464. One argument towards a 12th-c. dating is that the Arabic numerals used in the tables of the *Almagest* present, according to Burnett, a 'striking similarity' with those used in a psalter written in or shortly before 1153, most probably in Palermo under Roger II (Burnett, 'Indian Numerals', 244; also Burnett, 'The Use of Arabic', 47). If this MS was a later copy, one would expect the numerals to have been adapted, as happened in the other MSS of this text. **Or.:** Italy, certainly Palermo if the MS is to be dated to the 12th c. **Prov.:** Ulrich Fugger (d. 1584); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Parchment, 99 f., several hands. The Ptolemaic section (f. 41–97) is copied by three hands and contains beautifully painted initials at the beginning of each book. Several folia are missing between f. 40–41 and after f. 97.

Astronomy and mathematics: Alpetragius, *De motibus celorum* (1r–34v); 'Capitulum de inventione radicum et multiplicatione et divisione et diminutione et agregatione earum inter se et de aliis huiusmodi. Postquam tractavimus de his que superius dicta sunt...', end gone (35r–40v); **Ptolemaica** (41r–97v); added notes by a 13th-c. hand (98r–98v), including a Greek-Latin glossary of 21 astronomical terms and planetary positions under the title 'In die illa celum sic se habebat'; 13th-c. (?) fragment of a text unrelated to the rest of the MS (99r–99v).

Bibl. *IMLB*, 490; C. H. Haskins, 'Further Notes on Sicilian Translations of the Twelfth Century', *Harvard Studies in Classical Philology* 23 (1912), 155–66: 156–58; A. Pelzer, 'Une source inconnue de Roger Bacon, Alfred de Sareshel, commentateur des *Météorologiques* d'Aristote', *Archivum Franciscanum Historicum* 12 (1919), 44–67 (reprinted in A. Pelzer, *Études d'histoire littéraire sur la scolastique médiévale*, eds A. Pattin, E. Van de Vyver, Louvain-Paris, 1964, 241–71: 262n); Haskins 1927, 159; R. Lemay, 'De la scolastique à l'histoire par le truchement de la philologie: Itinéraire d'un médiéviste entre Europe et Islam', in Scarcia Amoretti 1987, 399–535: 464 and 468–72; Schuba 1992, 80–81; C. Burnett, 'Indian Numerals in the Mediterranean Basin in the Twelfth Century, with Special Reference to the "Eastern Forms"', in *From China to Paris: 2000 Years' Transmission of Mathematical Ideas*, eds Y. Dold-Samplonius, J. W. Dauben, M. Folkerts, B. van Dalen, Stuttgart, 2002, 237–88: 244–45 and 248 (reprinted in C. Burnett, *Numerals and Arithmetic in the Middle Ages*, Farnham-Burlington, 2010, V); C. Burnett, 'The Use of Arabic Numerals Among the Three Language Cultures of Norman Sicily', *Römisches Jahrbuch der Bibliotheca Hertziana* 35 (2003–2004), 39–48: 39–40 and 47 (reprinted in C. Burnett, *Numerals and Arithmetic in the Middle Ages*, Farnham-Burlington, 2010, VI).

41r–97v 'Incipit liber Claudii Ptolomei mathematicorum qui alias dicitur Megasiti et secundum Arabes Meguisti vel Almagesti. Prohemium. Eam pingendi gratias antiqui feruntur habuisse consuetudinem, ut unam quidem vultum aversam, due quibus illa manum porrigeret aspectarent. Cuius misterii non ignarus dudum... Valde bene qui proprie philosophati sunt, o Sire, videntur michi sequestrasse theoricum philosophie a practico — progrediens apparet paulatim ascendens et minus semper preterito...'

= **Ptolemy, *Almagesti*, tr. Sicily c. 1150 (A.1.1)**. Translator's preface, 41r–41v; I, 41v–49r; II, 49v–61r; III, 61r–67v; IV, 67v–77v; V, 77v–88r; VI,

88r–97v. Abrup end mid-sentence in VI.10 at the bottom of f. 97v. Glosses by at least two hands, one of which is perhaps that of the scribe. The second hand is responsible, among others, for the authorship note left in the margin of f. 41r, next to the title of the work: ‘Translatus in Urbe Panormi tempore regis Roggerii per Hermannum de Greco in Latinum.’ This hand was dated 14th–15th c. by Haskins, 13th c. by Pelzer and 13th, or possibly 12th c., by Lemay, 469, but it is from c. 1330, as indicated by the another gloss on f. 50v: ‘hodie vero in annis domini millesimo CCC XXX...’

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1376

s. XV^{med} (most of the MS was copied in 1447, cf. e.g. f. 136vb, 180vb, 190va, 190vb, 192rb, 207v, 236r, 253v, 308r, 324r, 342vb, 349rb; 1445 for f. 212–218, cf. f. 218v; 1458 for the last part of the MS, cf. f. 383v, 392rb, 394rb, 409v). **Or.:** copied by Fridericus Amann, monk at St Emmeram of Regensburg, who signed ‘frater Fridericus’ in several places, e.g. f. 190vb, 192rb (‘frater Fridericus astronomunculus’), 236r, 342vb, 383v, 392rb, 394rb. **Prov.:** St Emmeram of Regensburg; Elector Palatine Ottheinrich (1502–1559); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, 410 f., one main hand.

Astronomy, astrology and mathematics: astronomical tables (1r–134v) followed by canons (135ra–179ra); notes on celestial distances and planetary cycles (180ra–180va); **Ptolemaica (181ra–184va)**; ‘Si in aliquo puncto quod tantum distat a circumferentia...’ (184vb–185rb); **Ptolemaica (185rb–185va)**; *Liber theoreumacie*, Book IV ‘Horologium acham collocare sicut in Almagesti primi libri capitulo primo...’ (185vb–189rb); ‘Item si quantitatem corporis sperici vis scire...’ (189rb–189va); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (189vb–190va); ‘Radicem alicuius numeri extrahere...’ (190va–190vb); astronomical and astrological notes from Leopold of Austria’s *De astrorum scientia* and other sources (191ra–193vb); Ptolemy’s star catalogue verified 1444 (194r–207v); astronomical and astrological notes (207v–211v); *Theorica planetarum Gerardi* (212r–218v); astronomical notes (219r–220r); John of Saxony, *Canones* (221ra–223vb); Sacrobosco, *De sphaera* (224r–236r), with astronomical diagrams (236v); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (238r–253v); astrological tables (254r–255r); Alcabitus, *Introductorius* (256r–286r); ‘Sole intrante in Arietem, si Saturnus est in humido signo, iudica pluviam...’ (286va–289va); ‘Aries est domus Martis et exaltacio Solis et erectio Saturni...’ (289vb–293rb); ‘Ianuarius est enim primus mensis anni...’ (293va–296va); *lunarium* ‘De etate Lune. Si quis infirmaverit Luna prima et in die cretica...’ (296va–296vb); ‘Ventos orientales calidi et sicci. Eurus regnat in igne...’ (297ra–298rb); drawings of a vein man (298v and 299r); John of Ligneris, *Algorismus de minutiis* (300r–308r); *Liber theoreumacie*, Book I (308r–313v); arithmetic ‘Si vis radicem quadratam extrahere in minuciis...’ (313v–324r); notes of arithmetic (324v); note ‘Nota: Ptolemeus in quinta dictione Almagesti calculanda...’ (325v); geometry ‘Quoniam circa geometriam multi propter raritatem ac obscuritatem...’ (326r–330v); astrolabe diagrams (331v–334v); Pseudo-Messahallah, *De compositione astrolabii* (335ra–342vb); John of Gmunden, *Compositio quadrantis novi seu magni cum eius practica* (343ra–345vb); ‘Capitulum primum

de declinatione Solis et stellarum. Cum volueris sciere declinationem Solis et stellarum...' (346ra–349rb); 'Si volueris tempore (!) vere coniunctionis et oppositionis...' (350va–350vb); astronomical tables for Oxford 1348 (351r–391v), including canons (381ra–383ra) and notes by Fridericus Amann dated 1458 (383ra–383v); John of Murs, *Tabule permanentes* (392ra–392rb); 'Si verum locum Lune volueris invenire...' (393va–394rb); astronomical tables (394v–409v). Blank: 179v, 220v, 237, 255v, 299v, 325r, 331r, 349v–350r, 392v–393r, 410.

Bibl. *IMLB*, 491; Zinner 1964, 15; Markowski 1990, 287–88; Schuba 1992, 94–102; R. Kremer, 'Cracking the *Tabulae permanentes* of John of Murs and Firmin of Beauval with Exploratory Data Analysis', in *Editing and Analysing Numerical Tables. Towards a Digital Information System for the History of Astral Sciences*, eds M. Husson, C. Montelle, B. van Dalen, Turnhout, 2021, 363–422: 410.

181ra–184va 'De tribus corporibus solidis (Sol, Luna, terra). Quia tria corpora solida particularium — quia quod modicum distat nichil distare videtur. Explicit tractatus de quantitate trium solidorum magistri Schindil compilatus anno 1420.'

= **Johannes Andree Schindel**, *Tractatus de quantitate trium solidum* (C.1.15). No glosses.

185rb–185va 'Ptholomeus in Centilogio dicit sic: Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Hec omnia Ptholomeus etc.'

= **Pseudo-Ptolemy**, *De cometis* (B.4). No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1377

s. XIV (f. 183r–194v). **Or.:** probably Germany (Georges). **Prov.:** St Nikolaus Hospital in Kues for f. 183–194 (cf. f. 183r: 'Liber hospitalis sancti Nicolai prope Cusam'); Heidelberg, Bibliotheca Palatina; Vatican library in 1623, where f. 183–194 were bound together with the other parts of the MS.

Paper and parchment, 194 f. MS made of seven parts of various dates and origins, of which f. 183–194, on parchment, form one unit copied in a single hand.

Ptolemaica (single text) for f. 183–194. The other parts of the MS contain scientific texts, including astrological and astronomical texts. One of these parts (f. 95–110, parchment, 11th–12th c., France) contains a large collection of chapters from the old corpus on the astrolabe, opening with the *Horologium regis Ptolomei* (95r–98r), here also attributed to Ptolemy: 'Incipiunt capitula (?) libri horologi regis Ptolomei.'

Bibl. Björnbo/Vogl 1912, 134–36; Thorndike 1948, 45; Kristeller 1963–1992, II, 393 and 590, and VI, 360; Schuba 1992, 103–07; Blume/Haffner 2012–2016, II.1, 505–11; Georges (forthcoming).

183r–194v 'Forme, id est ymagines, celi et stelle ipsarum secundum situs et magnitudines tabulate Almagesti Ptolomei. Prime in parte anatoli. Et prima Urse Minoris. Illa que est super extremitatem caude: 2° 0' 10' – 66° 0' – 3. Illa que est post

istam super caudam: $2^{\circ} 2^{\circ} 30' - 70^{\circ} 0' - 4$ — Et stella scita per thauguebe, id est comam, non intrant in numerum.'

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, VII.5-VIII.1, star catalogue, with drawings of the constellations. Glosses by a later hand (15th c. acc. Schuba), including a longer note on the value of the precession according to various sources on f. 194v.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1380 [Plate 8]

s. XIV² (table of planetary rulers for 1356–1391 f. 13r). **Or.:** personal notebook of Reimbotus de Castro, mainly copied by him over a long period of time, probably from c. 1356 to his death c. 1388 (the planetary rulers in the table f. 13r have been added for the years 1389–1391 by another scribe, who, on the same page, speaks of the year 1389 in the future tense: 'Ideo 89 erit Iupiter dominus anni'). **Prov.:** Heidelberg, Heiliggeistkirche, since 1438; Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, I + 282 f., four hands: I [Reimbotus de Castro], f. 1r, 1r–123r, 139r–163r, 164v–183r, 189r–245v and 261r–277v; II, f. 123v–138v and 184r–188r; III, f. 163v–164r; IV, f. 246r–260v and 277v–281v.

Astronomy, astrology, music and mathematics, including commentaries and glosses on well-known works, some of which at least were probably authored by Reimbotus de Castro himself: table of contents (1r); Andalo di Negro, *Theorica planetarum* (1r–12v); astrological notes, including a table of planetary rulers for 1356–1391 (13r); 'Nota: Sol movetur inequaliter in orbe signorum...' (14r–24r); 'Ad faciendum figuram celi scias primum gradum...' (26r–31r); comm. on *Theorica planetarum Gerardi* 'Nota: Omnis circulus eccentricus vel egressus...' (31v–40v); 'Nota de libello ecentricorum conclusio prima...' (44r–44v); 'Nota quod coniunctio planetarum est duplex...' (45v–46v); comm. on Alcabitius's *Introductorius* 'Super Alkabicium. Nota secundum Egidium in celo stellato ex stellis fixis...' (47r–64v); **Ptolemaica (65r–80v)**; 'Nota Albumasar in tertio libro sui introductorii, capitulo quarto, dicit...' (80v–84r); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen, excerpt 'Nota: Dicit Abraham Avenesdre quod omnes sapientes astrorum dicunt quod signa ignea et aerea significant caristiam...' (85r–86v); 'Nota in capitulo 4 primi libri Introductorii ipsius Albumazar quod quatuor sunt genera...' (86v–92v); 'Nota omnes linee a circumferencia luminis protracte superficiem...' (93r–98v); 'Nota: Musica principaliter considerat proporcionem acuti soni...' (99r–103r); added table: 12 signs and their correspondences to the months, humours, elements etc. (112v); 'Nota aliquas suppositiones ad probandum quadraturam circuli...' (113r–115v); **Ptolemaica (116r–138v)**; Bernard of Verdun, *Tractatus super totam astrologiam* (139r–164r); 'Nota triplicitas meridionalis dicitur secundum Ptolomeum...' (164v–165r); 'Horologium Achaz. Protrahuntur plures linee circulares...' (165v–166v); 'Nota ad habendum locum vel partem fortune primo ordina faciem celi, deinde motum Solis...' (166v–168r); 'Secundum Boecium tota compago anime et corporis coniuncta est musica...' (169r–183r); Peter of Limoges, comm. on Richard of Fournival's *Nativitas* (184r–187r); Abraham Avenezra, *Liber de iudiciis* (187r–188r); horoscope: nativity of Richard of Fournival (188r); 'Ovidius, qui philosophus fuit atque poeta, conqueritur quia deseritur possessio leta...' (189r–200v); Thomas Bradwardine,

Arithmetica speculativa, without the beginning (200v–230v); ‘Nota quod ars numerandi non completur in composicione que est in integris...’ (231r–236v); Thomas Bradwardine, *Geometria speculativa*, abridged version (237r–260v); ‘Perspectiva est sciencia doctinalis, cuius subiectum lux est...’ (261r–279r); Michael de Insulis, *Algorismus proportionum* ‘Proportio est habitudo penes excessum...’ (279r–281v). Blank: Iv, 13v, 24v–25v, 41–43, 45r, 84v (except for a short note), 103v–112r, 168v, 183v, 188v, 282 (except for short notes f. 282r).

Bibl. *IMLB*, 492–93; Schuba 1992, 111–15; Zepeda 2013, 187–88; L. Lička, ‘The Aims of *Perspectiva* in 1360s Paris: Investigating Texts Written in the Hand of Reimbotus de Castro’, in *Books of Knowledge in Late Medieval Europe: Circulation and Reception of Popular Texts*, eds P. Cermanová, V. Žurek, Turnhout, 2021, 299–329: 303, 308–10 and *passim*.

65r–80v ‘Nota circa secundum verbum Ptolomei in Centiloquio. Et inquit utrum orbes celestes moveantur ab anima in ipsis orbibus existens — tunc destruentur consules regis, quia secunda domus significat consules regis.’

= **Reimbotus de Castro (?)**, *Commentum in Centiloquium* (C.3.8).

No glosses.

116r–138v ‘Data circuli diametro latera decagoni, pentagoni, exagoni, tetragonu atque omni ab eodem circulo circumscriptorum reperire — erit polus arcus (?) et proveniet sector.’

= **Johannes de Wasia (?)**, *Commentum super Almagesti Ptholomei* (C.1.10), incomplete. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1381

s. XIV² (f. 230–243), XIV^{ex}–XVⁱⁿ (f. 137–148 and 209–229) and XV² (f. 1–136 and 149–208, copied between 1451 and 1457, with additions and astronomical adjustments up to at least 1472). **Prov.:** Matthias of Kemnat (d. 1476) copied most of the first part of the MS at the monastery of Reichenbach and elsewhere, and might be responsible for bringing the three parts together (cf. his monogram with the date 1474 f. 1r and his name f. 82v, 123r, 170r and 173v); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, 243 f. Composite MS made of three parts: I, f. 1–136 and 149–208, several hands; II, f. 137–148 and 209–229, several hands; III, f. 230–243, a single hand.

Astrology (part III): **Ptolemaica (230ra–243rb)**; ‘Nota quod hec sunt ymagines que oriuntur cum omni facie signorum. Aries. In prima Arietis facie oritur forma hominis nigri...’ (243va–243vb). Parts I and II include numerous texts, excerpts, notes, tables and diagrams of astronomy, astrology, computus and mathematics, among which: list of astronomical and astrological works excerpted from Pseudo-Albertus Magnus’s *Speculum astronomie* (11v–12v); Hermann of Carinthia, *Liber imbrium* (16r–21v); *Liber novem iudicum*, 13 final chapters ‘De qualitate aeris et temporum Aomar. Ex conventu itaque vel oppositione ex Solis...’ (21v–30r); Azarchel, *Saphea*, tr. Johannes Brixiensis and Prophatius Judeus (30v–42v and 59r–63v); *Theorica planetarum Gerardi* (46r–58v, preceded by diagrams f. 43v–45v); Thebit Bencora, *De imaginibus* (88r–88v); Pseudo-Messahallah, *De compositione astrolabii*,

incomplete (137r–147r); Alfraganus, *De scientia astrorum*, tr. John of Seville (209r–220v); astrolabe ‘Astroloyce speculationis exercitium habere volentibus...’ (221r–226v); Gergis, *De significatione septem planetarum in domibus*, excerpted from Leopold of Austria’s *De astrorum scientia*, Book VII (227v–229r). Full description of contents in Schuba.

Bibl. *IMLB*, 493; Zinner 1964, 15–16; Kristeller 1963–1992, VI, 360; Schuba 1992, 115–25.

230ra–243rb ‘Mundanorum ad hoc et ad illud mutatio corporum celestium... Sententia (!) stellarum ex te et illis est: Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Tholomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — (242vb) et quantum melius quivimus exposuimus. Ptho<lome>us in hoc loco tricas et tricarum nomina posuit... (243ra) Stelleque cum caude sunt ... [one erased word] — in regibus et divitibus apparebit. Explicit Centilogium Ptolomei. Deo gracias.’

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), ‘**Mundanorum**’ version (C.3.1.3). The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 242vb–243rb (see below). Short marginal notes by the scribe f. 230r, 233r and 236v.

242vb–243rb ‘Ptho<lome>us in hoc loco tricas et tricarum nomina posuit... Stelleque cum caude sunt ... [one erased word] — in regibus et divitibus apparebit.’

= **Pseudo-Ptolemy**, *De cometis* (B.4), as part of the *Centiloquium* (see above). No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1390

s. XIV^{ex} (1391–1392, cf. solar tables for 1391 and 1393 f. 84r; computus diagrams for 1392 f. 156v; added astronomical and historical notes by the scribe for 1391–1410 f. 14v–15v). **Or.:** Frankfurt/Main (cf. f. 14v–15v), practioner’s handbook annotated by the author until at least 1438 (cf. e.g. f. 14v–15v, 156r and 197v). **Prov.:** Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper and parchment, 204 f., a single hand. Some parts of the MS are bound in disorder, including in the second Ptolemaic section, whose f. 60–62 and 71–73 form one unit.

Astrology and astronomy: star catalogue verified 1300 (1r–7v); ‘Aries est primum signum zodiaci et in hiis que pertinent ad corpus facit hominem habentem corpus pilosum...’ (8r–8v); ‘De naturis 7 planetarum in signis. Saturnus sua naturali virtute et complexione dat hominem fuscum...’ (8v–9r); ‘De natis. Notandum quod si aliquis natus fuerit secundum astronomos die vel hora Saturni talis naturaliter (?) est avarus et latro...’ (9r); ‘Nota quod planete habent dominium super fetum...’ (9r–9v); ‘De coniunctionibus planetarum. Item notandum quod coniunctiones planetarum sunt duplices...’ (9v–10v); ‘Sequitur Messehalla de naturis signorum et 7 planetarum. Signa vero tropica et conversiva et mobilia sunt Aries, Cancer, Libra...’ (11r–13v); ‘Aries est signum mobile, calide et sicce nature, et dat hominem mediocris stature...’ (13v–14v); added notes by the scribe reporting celestial configurations and various events that occurred in and around Frankfurt/Main between 1391 and 1410 (14v–15v), with an additional note for

1436 on f. 14v; **Ptolemaica (16r–40v and 42r–47v)**; Hermes, *Centiloquium* (48r–50^{bis}r); *Capitula Almansoris* (50^{bis}r–54v); Albumasar, *De magnis coniunctionibus*, II.8.22–29: ‘De significatione Saturni et Martis in triplicitatibus. Quandocumque Saturnus fuerit in directo Arietis...’ (54v–56v); ‘De 4 temporibus anni et de mutatione aeris. Hec sciuntur ex gradu coniunctionis et oppositionis...’ (57r–60v); **Ptolemaica (60v–62v)**; Albumasar, *Flores*, second part (63r–67r, see f. 78v–82v); Messahallah, *Epistola de rebus eclipsium* (67v–70v); **Ptolemaica (71r–73r)**; note on conjunctions ‘In coniunctione minori est distinctio coniunctionis medie...’ (73r); Thebit Bencora, *De imaginibus* (74r–78v); Albumasar, *Flores*, first part (78v–83r, see f. 63r–67r); astronomical tables (84r–85r), including solar tables for 1391 and 1393 (84r); Alfonsine tables with canons, including by John of Ligneres and John of Saxony (84r–150v); ‘Tabula Albategni latitudinis planetarum...’ (151r), with canons (151v–152r); astronomical notes (152r–152v); ‘Tabula ad sciendum per Lunam quanta sit mora creature in utero materno...’ (153r–154v); ‘De latitudine Veneris invenienda. Cum latitudine Veneris volueris scire...’ (155r); added astronomical notes, some mentioning the years 1396, 1438, 1422, 1423 and 1431 (156r); two computus diagrams for 1392 (156v); calendar (157r–162v); table for computing the zodiacal position of the Moon, with canon (163r); computus table (163v); table: *De electionibus secundum cursum Lune per XII signa* (164r); table: lunar mansions (164v); astronomical tables (165r–183r); ‘Quoniam sapientes astronomi cebris experientiis edocti diversos...’ (183v–186r); astrological and astronomical tables (186r–187v); astronomical tables (190r–197r); astronomical notes mentioning the years 1403, 1424 and 1414 (197v); ‘Si Lune defectionem sive eclipsim volueris invenire...’ (198r–202v), with tables (202v–203v); computus diagram (204r). Blank: 41, 73v, 83v, 85v, 155v (except short note), 188–189, 204v.

Bibl. *IMLB*, 495; Zinner 1964, 17; Schuba 1992, 148–53; Lemay 1999, I, 386–87.

- 16r–40v ‘Incipit Centiloquium Ptholomei. Mundanorum ad hoc et ad illud mutatio corporum celestium... Scientia namque astrorum est ex te et illis, non oportet peritum... Haly. Scientia astrorum est ex te et illis. Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Ptolomeus, ex te et illis, significat quod que res futuras prenosceret desiderat — (40r) et quanto melius potuimus exposuimus. Pto<lome>us in hoc loco tricas et tricarum nomina posuit... Stelle que cum caudis sunt 9 que mundum movent — in regibus et principibus apparebit. Explicit. Amen.’
 = **Abuiafar Hamet filius Joseph, *(Commentum in Centiloquium)*, ‘Mundanorum’ version (C.3.1.3)**. The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 40r–40v (see below). Glosses by the scribe, at times substantial, some of which include *verba* in Plato of Tivoli’s translation (C.3.1.1).
- 40r–40v ‘Pto<lome>us in hoc loco tricas et tricarum nomina posuit... Stelle que cum caudis sunt 9 que mundum movent — in regibus et principibus apparebit.’
 = **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.
- (42r–73r) ‘[1] Volo in hoc tibi dare exemplum trium nativitatum intendas quicquid locuti sumus in eis. Prima est nativitas mea — (47v) et Deus te dirigat in viam

rectam. (60v) [2] Notandum quod sciemus a coniunctione vel oppositione que fuerit antequam Sol intrat Arietem — (62v) secundum in modo augmenti, tertium in modo finis, quartum in modo abaxamenti. [3] Nota: Si ille qui dominatur fuerit humectans et commiscebitur cum stellis fixis humectantibus — alias applicationes intelliges isto modo. [4] Ptholomeus de domino anni. In hoc enim convenit nobis nominare stationem que dicta est capud anni — (72r) et meridionales aquose et septentriones facientes ventos. [5] Bene debes quod hoc dictum intelligere quod pluries quoniam signa sunt mansiones que non habent opera — que concordant cum naturis particularium in figura opus certificabitur.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**, excerpts: [1] Haly’s appendix, 42r–47v; [2] Haly’s comm. on II.10 (second part), 60v–62v; [3] last lines of Haly’s comm. on II.11, 62v; [4] Ptolemy’s text II.10–11, 62v and 71r–72r; [5] Haly’s comm. on II.11 (excerpt) and II.12, 72r–73r. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1401

s. XIV¹ (for f. 27–113, cf. astronomical table 1308–1330 f. 38r, astronomical table 1300–1312 f. 46r, years 1300 and 1304–1316 mentioned f. 47v, 94v and 109v–112v, horoscope for 1339 f. 63r; f. 2–19 date from the 15th c. and f. 20–26 from c. 1200). **Or.:** Germany, perhaps Magdeburg (for f. 27–113, cf. f. 63r and 111r; Magdeburg is also mentioned in the table of geographical coordinates of cities f. 46r). **Prov.:** Matthias of Kemnat, who annotated the MS and added a table of contents on f. 1r; Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Parchment, 113 f. Composite MS made of three parts: I, f. 2–19 (a single hand); II, f. 20–26 (a single hand); III, f. 27–113 (several hands).

Astrology and astronomy (f. 27–113): planetary tables (27v–35v, including Henry Bate’s Tables of Mechelen f. 27v–31v), with canons ‘Ad habendum locum Solis augem...’ (35v); astrological tables: degrees (36r); note ‘Regiones australes ubi Sol transit cenit tenet homines calides...’ (36r); astronomical tables (37r–38v); magical recipes and astrological notes (39r); Thebit Bencora, *Liber prestigiorum* (39v–41v); astronomical tables (42r–46r); onomancy ‘Sume nomen hominis et matris simulque computa numerum nominis et divide per 28...’ (46r); ‘Si eclipsim Solis laboriosam scire desiderat...’ (46v–47r); astronomical tables (47v–52v); Albumasar, *Flores de electionibus* (53r–58r); Sem filius Haym, *Capitulum in narratione Saturni quid accadat in mundo* (58r–59r); ‘Electiones quando Luna fuerit in signis sine aspectibus. Aries: Dies bona, bonum balnari...’ (59r); computus table 1273–1653 with note (59v); Messahallah, *De mercibus* (60r–63r); revolution horoscope for 1339 for Magdeburg, with note (63r); Haly Embrani, *De electionibus horarum* (64r–78v); Pseudo-John of Seville, *Epitome totius astrologie*, Book IV (78v–80r); onomancy ‘Numerum nominis hominis divide per 9 et si unum remanet Sol est planeta eius...’ (80r); note ‘Dixit Alb<umasar>: Scire cogitationem hominis...’ (80v); Roger of Hereford, *Liber de tribus generalibus iudiciis astronomie* (80v–84r); ‘Aures perficiatur. Computa a gradu septimi usque ad gradum orientis et proice a gradu medii celi...’ (84r–84v); **Ptolemaica** (84v–94v); *Astronomia Ypocratis* (95r–98r); Guillelmus

Anglicus, *De urina non visa*, chs 3–9 (98r–100v); Messahallah, *Epistola de rebus eclipsium* (100v–102v); Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. Haly (102v–103v); ‘Quando Luna comburitur, vide si Luna prospicit Saturnum...’ (103v); Thebit Bencora, *De imaginibus* (103v–106r); **Ptolemaica (106r–108v)**; Hermes, *De imaginibus et horis* (108v–109r); six horoscopes related to the revolution of 1311 (109v); ‘Ad inveniendum diem conceptionis. Si per horam nativitatis et diem conceptionis eius...’ (110r); 17 horoscopes for various dates between 808 and 1307 with historical notes (110v–112r), including one for the ‘Inicium regni Boemie’ on 14 March 1086 (110v), one for the revolution of 1134 ‘quando Marchia transivit ad Teuotonicos’ (110v) and one for the first archbishopric of Magdeburg in 968 (111r); chronological and historical notes ranging from 1218 to 1316 (112v); ‘Anno domini 1460 reperi in quodam libro subscriptas civitates sub duodecim signis. Aries: Florentia, Francia, Capoa...’, added by Matthias of Kemnat (113r). The other parts of the MS include a table of contents of the whole MS (three parts) by Matthias of Kemnat (1r); an astronomical calendar for 1425 with computus diagrams and tables (2r–15r); Bede, *De natura rerum*, chs 1–22 (20v–26r). Blank: 1v, 15v–20r, 26v–27r, 36v, 63v, 113v (except for the names of the 12 signs).

Bibl. *IMLB*, 497–98; Zinner 1964, 19; Burnett 1987, 192 (no. 123); Schuba 1992, 171–76; Lemay 1999, I, 424; Bohak/Burnett 2021, 91–92.

84v–94v ‘Rememoratio centum verborum Tolomei. Scientia stellarum ex te et ex illis est: Ex te quidem per vim anime intellectivam quando separatur anima ab affectu rerum exteriorum sicut heremite et epileptici — ex aliqua civitate illius climatis. Quandoque apparet cometa ad modum stelle — in regibus et divitibus aparebit. Explicit memoriale Bendd. (?) de verbis Ph<tolome>i.’
= **Memoriale Bendd. (?) de verbis Phtolomei (C.3.6)**. A few marginal corrections by the scribe.

106r–108v ‘De ymaginibus [title added in the margin by Matthias of Kemnat]. Dixit Abuzabaz Benfeliz: Quia omnes orientales operabantur per has ymagines — et impetrabis ex eo quod animus tuus desiderat.’
= **Pseudo-Ptolemy, De imaginibus super facies signorum (B.14)**. A couple of marginal notes and paragraph numbers added by Matthias of Kemnat.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1408

s. XIV. **Or.:** Germany. **Prov.:** Heidelberg, Bibliotheca Palatina, by 1581; Vatican library in 1623.

Parchment, 83 f., a single hand.

Astrology and astronomy: Albumasar, *Flores* (1r–13v); Gergis, *De significatione septem planetarum in domibus* (13v–16v); ‘In prima facie Arietis descendit forma hominis nigri...’ (16v–17r); **Ptolemaica (17v–34v)**; ‘In nomine patris et filii et spiritus sancti omnipotentis Dei, intendimus in hoc opusculo declarare quo anno, quo mense anni, quo die mensis, qua hora diei vel noctis, eclipsis Solis vel Lune aliqua sit futura... Explicit opusculi de eclipsi Solis et Lune’ (34v–39r); **Ptolemaica (39r–40r)**; ‘Capitulum mortis et occisionis in questione universali et nativitate. Accipe causam mortis ab ascendente...’ (40r–42v); Alcabitius,

Introductorius (43r–67v); Haly Embrani, *De electionibus horarum* (68r–77v); Albumasar, *Flores*, second part (78r–83r). Blank: 83v.

Bibl. *IMLB*, 499; Zinner 1964, 20; Schuba 1992, 185–86.

- 17v–34v ‘Signorum alia sunt masculini generis, alia feminini. Femini ut Taurus, Cancer... (34r) Si autem de mutatione temporum particulariter nosse — id est Canis, ante unam diem. Explicit.’
= **Pseudo-Ptolemy, *Iudicia* (B.3)**, with Pseudo-Ptolemy’s *De temporum mutatione* (B.12) as the closing chapter on f. 34r–34v (see below). No glosses. Titles in red in the margins by the scribe.
- 34r–34v ‘Si autem de mutatione temporum particulariter nosse verum desideras, regule que iam dicentur non labantur animo tuo. Prima die mensis Septembris, Icarus, custos plaustris, apparet — et est finis Cionis, id est Canis, ante unam diem. Explicit.’
= **Pseudo-Ptolemy, *De temporum mutatione* (B.12)**, as part of the previous text. No glosses.
- 39r–39v ‘Alchnochei habentes comas, sunt de secundariis stellarum et non sunt de aliis quod sunt (?) quia corpora supercelestia sunt inpressiones... Alnochei significant siccos vapores — proditor ex alia civitate illius climatis.’
= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, v. 99–100. No glosses.
- 39v–40r ‘Quandoque apparet coma — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1414

s. XIII² (f. 224rb: ‘Explicit liber presens anno salutis incarnationis domini Ihesu Christi M^oCC^o66, 12 die mensis Novembris. Constat pro scriptura 62 fl. Florentinorum’, this note has been added by what seems to be a later hand, but 1266 is a plausible date for the MS). **Or.:** northern France, probably Paris (cf. notes on the geographical coordinates of Paris, f. 138v, 139v and 140rb; John of London’s table for Paris f. 25r; and annotations by Peter of Limoges f. 31v and 32r–33r – on this MS and Peter of Limoges, see also Miolo 2017, I, 445–446). **Prov.:** an added note (14th c.?) on f. 225r lists some 37 species of fish found in the Meuse river (‘Isti pisces inveniuntur in Mosa’); Nicolaus Pruckner (d. 1557), who gave the MS to Elector Palatine Ottheinrich in 1553, cf. f. 1r: ‘Das buch hat mir Ottheinrich pfallzgrave Dockter Nicklas Pruckner mathematicus zu Markgravenbaden geschenckt den 2 May 1553’; Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Parchment, 225 f., two or three alternating neat hands, one of which copied f. 1–167, decorated initials throughout.

Astrology and astronomy: Alcabitius, *Introductorius* (1ra–20rb); short astronomical and astrological chapters ‘Pictagoras vir animi sagax scripsit a terra usque ad Lunam 126000

stadium... Cometes est stella que a plerisque peritis... Cum fuerit Luna cum Capite vel Cauda in uno signo... Ad inveniendum dyametrum terre sic procede...' (20rb–20vb); Pseudo-Thebit Bencora, *De motu octave spere* (21ra–23rb); astrolabe 'De inventione azimuth. Possunt autem azimuth hoc modo fieri...' (23rb–23vb); 'Potest zodiacus dividi in gradus et signa et in minores partes per declinationem...' (24ra–24va); John of London, star table for 1246 in Paris (25r); drawings of an astrolabe (25v–26v); **Ptolemaica** (27ra–29vb); Sacrobosco, *Algorismus* (29vb–34vb); Robert Grosseteste, *De sphaera* (34vb–41ra); Hermes, *Centiloquium* (41va–43vb); Robert Grosseteste, *Compotus* (43vb–62r); *Liber de motibus planetarum* (62va–66vb); canons of Toledan tables (67ra–84ra); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (84ra–85rb); table 1232–1998 'Tabula ad inveniendum annos Arabum per annos domini Ihesu Christi' with canon (85v); Toledan tables with canons (86r–157va), including ascension tables for Toulouse (96r–97v); 'Cum sint due signorum distinctiones, una secundum coniunctionem...' (157vb–159v); *Theorica planetarum Gerardi* (160ra–166ra); 'Sciendum est quod planetarum quidam sunt benevoli, quidam malevoli...' (166rb–167vb); Robertus Anglicus, *Quadrans vetus* (168ra–173ra); Sem filius Haym, *Capitulum in narratione Saturni quid accadat in mundo* (173ra–174ra); Gergis, *De significatione septem planetarum in domibus* (174ra–177ra); Pseudo-Messahallah, *De compositione astrolabii* (177va–189vb); *Canones super tabulas Humeniz philosophi summi Egiptiorum*, tables (190r–204v) and canons (205ra–208ra); Campanus of Novara, *De quadrante* (208ra–211ra); 'Notandum quod principatus planetarum in conceptione humana...' (211ra–213ra); 'Cupientibus fructum planetarum primo scire oportet...' (213ra–215vb); table: elections from the aspects of the Moon with the other planets (216r); Robert Grosseteste (?), *De impressionibus aeris* (216vb–220ra); Roger of Hereford, *De quatuor partibus iudiciorum astronomie* (220ra–224rb); scattered notes by several late medieval hands (224v–225v).

Bibl. *IMLB*, 500–01; L. Thorndike, 'The Study of Mathematics and Astronomy in the Thirteenth and Fourteenth Centuries as Illustrated by Three Manuscripts', *Scripta Mathematica* 23 (1957), 67–76: 71–72; L. Thorndike, 'Notes upon Some Medieval Latin Astronomical, Astrological and Mathematical Manuscripts at the Vatican, Part II', *Isis* 49 (1958), 34–49: 39–44; Zinner 1964, 21; Schuba 1992, 195–200; Panti 2001, 216; Pedersen 2002, I, 178–79; Nothaft 2018, 175; Lohr/Nothaft 2019, 40–41.

27ra–29vb 'Cum omnibus directe intuentibus constet esse necessarium aliquid in astronomia arte prevalere — in libro planetarum requiratur secundum hoc quod Anaxagoras ibi disposuit. Finitus est liber figure Ptholomei.'
= **Pseudo-Ptolemy, Liber figure (B.10)**. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1419

s. XV^{med}. **Or.:** Germany. **Prov.:** Elector Palatine Ottheinrich (1502–1559); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, 115 f., a single hand.

Ptolemaica (single text). Blank: 112v–115v.

Bibl. *IMLB*, 502; Schuba 1992, 208.

1ra–112rb ‘Quadrip<ar>titus Ptolomei cum commento Haly [title in upper margin, hand of the scribe]. Verba que dixit sapientissimus Ptolomeus in arte iudiciorum super hiis que accidunt... (3vb) Verba Ptholomei. Res, Mizori, quibus perficiuntur pronosticationes accepte pronosticationes accepte (!) de astrologia maiores et nobiliores sunt due — et quod eam preponamus et quod aliam virtutem sequentem eam in dominio et virtute postea ordinemus, quoniam accidentia et eclipsis sunt diversa per regiones et per loca et...’
= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2), without the translator’s preface and ending abruptly in II.8 in the middle of a sentence at the bottom of the page. Haly’s preface, 1ra–3vb; I, 3vb–76vb; II, 76vb–112rb. Occasional short marginal notes by the scribe or a contemporary hand.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1420

s. XIII^{ex} (for f. 1–36, the second part of the MS dates from the 14th c.). **Or.:** Italy (for f. 1–36, the second part of the MS is partly Italian, f. 37–52, partly from Cologne, f. 53–89, cf. f. 63r: ‘Scriptus Colonie anno domini M^oCCC^oLXI^o feria quarta Penthecostis’). **Prov.:** Elector Palatine Ottheinrich (1502–1559); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Parchment, 89 f. MS made of two parts: f. 1–36 (a single hand, decorated initials) and f. 37–90 (several hands, one of which copied f. 53–89).

Ptolemaica (1r–34v and 34v–35r). Blank: 35v–36v. The second part of the MS contains scientific texts: Sacrobosco, *Algorismus* (37r–40v); Albert of Saxony, *Tractatus proportionum* (41r–44v); John of Ligneres, *Algorismus de minutiis* (45r–48v); Thomas Bradwardine, *Geometria speculativa* (53r–63r); Simon Bredon, comm. on Boethius’s *De arithmetica* (63r–68r); John of Murs, *Musica speculativa* (68v–74v); ‘36^m capitulum octave partis et partium de mensuris figurarum...’ (75r); Witelo, *Perspectiva* (76r–77v); Alfonsine star catalogue (78r–89v). Blank: 49r–52v, 75v.

Bibl. *IMLB*, 502–03; Zinner 1964, 22; Schuba 1992, 208–10.

1r–34v ‘Liber quadripartitus Ptholomei. Incipit liber 4 tractatuum Ptolomei Alfilludhi in scientia iudiciorum astrorum et in primo tractatu sunt 24 capitula. Capitulum primum in collectione inteletione (?) intellectus (!) scientie iudiciorum astrorum [title added in upper margin by a later hand]. Rerum, Yesure, in quibus est pronosticalis (!) scientie stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro finem i<m>ponere non incongruum exstimamus. Explicit liber 4 Batlomei in radicandi discretione per stellas de futuris et in hoc mundo constitutionis et destructionis congentibus (!).’
= **Ptolemy**, *Quadripartitum*, tr. **Plato of Tivoli** (A.2.1). I, 1r–9r; II, 9r–16v; III, 16v–28r; IV, 28r–34v. Glosses by at least two later medieval hands, substantial from f. 12v onwards.

- 34v–35r ‘De projectione radorum [title added in red in the margin by another hand]. Cum projectionem radorum stellarum scire volueris — locus radiationis equate.’
 = **Pseudo-Ptolemy**, *Liber projectionis radorum stellarum* (B.6).
 Glosses by a later medieval hand.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1439

s. XV^{ex} (a good deal of the MS at least was copied in 1487–1488, with sections and notes added until at least 1493, cf. e.g. f. 208r: ‘eclipsis Solis anno 1493 currente’). **Or.:** personal notebook of Johannes Virdung of Hassfurt, who copied most of the volume when he was a student at the University of Cracow (1484–1488), with additions at the University of Leipzig (1488–1492) and at the University of Heidelberg (from 1492 onwards), cf. f. 1r: ‘Liber magistri Ioannis Virdung de Hasfurt’; f. 8r: ‘Finiti sunt canones eclipsium anno Christi 1487 per me bacc<alarium> Iohannem de Hasfurth feria secunda post festum Bartholomeii in alma universitate Cracoviensi’; f. 39r: ‘Finiti sunt canones per me bacc<alarium> Iohannem de Hasfurt in alma universitate Cracoviensi anno salutis nostre 1487’; f. 49v: ‘Finitus est tractatus super pronosticon figure sequentis per me bacc<alarium> Iohannem de Hasfurt, compositusque per magistrum Alberum de Brudzewo anno 1487 Sabbatho ante festum Bartholomeii in alma universitate Cracoviensi’; f. 66r: ‘... collecti ... per bacc<alarium> Iohannem Germanum de Hasfurt anno salutis 1487 in alma universitate Cracoviensi ex canonibus magistri Iohannis de Monte Regio’; f. 285r: ‘per me ... (?) Io<hannem> de Hasfurt anno salutis Christi 1488 in studio Cracoviensi.’ Virdung also left autobiographical and historical notes f. 8r, 39r, 66r, 266r, 331v–335r and 350v (partly edited by Thorndike). **Prov.:** Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper, 351 f., one main hand (Johannes Virdung), except for f. 67r–75r, 105^{bis}, 148r–152r and 211r–239r.

Astronomy and astrology: Peurbach, *Canones eclipsium Solis et Lune* ‘Tempus coniunctionis medie vel oppositionis luminarium...’ (1r–8r); computus for the year 1488 released by the University of Cracow ‘Pro laude regis eterni...’ (8v); ‘Sequuntur tempora fleubothomie electa secundum verum motum Lune in signis zodiaci...’, incomplete (9v–11r); drawing of an astrolabe (11v); notes ‘Armille sic ordinantur...’ (12r); Regiomontanus, *Tabule directionum*, canons (13r–39r); Figure ‘Radiationes secundum Blankinum [Giovanni Bianchini] in circulo inclinato super eclipticam. Omnis stella radiationes suas extendit...’ (39v); **Ptolemaica** (40r–40^{bis}v); Albertus de Brudzewo, judgement on a nativity of 6 April 1445 (41r–49v); Albertus de Brudzewo (?), *Canones concernentes nativitatem nati* (50r–66r); horoscope of Johannes Virdung with notes (66v); *horologium* ‘Utilitates huius compendii. Pro compositione instrumenti per quod facit horam noctis tempore...’ (67r–75r); ‘Compositurus horalogium noctis, accipe laminam argenteam...’ (75v–76r); ‘Volens conficere baculum Iacob...’ (76r); ‘Sequuntur regule de multiplicatione. Prima: Si multiplicas gradus per gradus...’ (76v–77r); names of the months in various languages (77v–78r); Johannes de Glogovia, comm. on Sacrobosco’s *De sphaera* (78v–102v); *kalendarium* 1487–1551 with canons (103r–121v), in which a prognostication for 1495, copied by another hand, has been inserted

(105^{bis}r–105^{bis}v); Johannes de Glogovia, *Summa astrologie*, Book II (122r–151r), including **Ptolemaica (127r–127v)** inserted, together with other chapters of astrometeorology, between *Differentie* 3 and 4; astrometeorology ‘Partitiones alie quas astrologi in suis iudiciis attendunt. Inquit autor summe Anglicane et Yafar in tractatu de ymbribus...’ (151r–152r); Zael, *De electionibus*, beginning only (152v); ‘Quadratus et oppositionis aspectus Saturni et Martis faciunt...’ (153r); ‘Ab horis temporalibus sciendum quando erit accidens eclipsis...’ (153v–154v); Johannes de Glogovia, *Summa astrologie*, Book IV (155r–160r); ‘Item mundi huius inferioris machina virtuti celorum et stellarum est subdita...’ (160v–163r); elections ‘Pro balneo... Tempora electa fleubotomie in ordine ad complexionem hominum...’ (163r–164v); Johannes de Glogovia, *Canones Tabularum resolutarum* (165r–194r); *Astronomia Ypocratis* (194v–198r); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, excerpt ‘Dies cretica est quando natura...’ (198r–200r); astrometeorology ‘Aries facit calorem temperatum...’ (202v–203r); Bernard of Gordon, *Tractatulus de cautelis medicorum* (200v–202r); list of mathematical books at the university and the Church of the Holy Spirit of Heidelberg in 1492 (203v); ‘Ponam igitur modum quomodo procedendum est in practica per mansiones Lune. Quotiens volueris habere cognitionem de aeris mutatione...’ (204v–207r); ‘Sciendum pro conficiendo tabulas minutionum primo requiritur cognitio ipsius almanach...’ (207v–208r); ‘Significationes applicationum planetarum ad inficem (!). Coniunctio Saturni et Iovis...’ (208v); ‘Modus compositionis instrumenti directorii. Fiat circulus magne quantitatis...’ (209r–209v); Johannes de Glogovia, *Summa astrologie*, Book I (211v–239v); ‘De compositione instrumenti subtilissimi motuum planetarum. Ut in compositione nostri instrumenti progrediamur...’ (239v–244r); notes ‘De tempore quo incipient effectus eclipsis...’ (245v); ‘Doctrina inveniendi puncta eclipsis Solis cum tabulis...’ (246r–247v); ‘Hoc instrumentum habet duas partes sive facies, prima de figura eclipsis...’ (248r–257v); ‘Pro horalogiorum compositione primo requiritur...’ (258v–259v); judgement on a nativity of 20 December 1448 in Prague (260r–265r); astrological notes (265v–266r); ‘Sequitur instrumentum de veris coniunctionibus et oppositionibus luminarium...’ (266r–266v); ‘Compositio hec que artis computistice subiacet...’ (268r–277r); ‘Item si vis scire id quod est augendum ad viam incipere...’ (277v); geographical coordinates of cities (278r); Cristannus de Prachaticz, *Compositio astrolabii* (279r–285r); ‘Sequitur de profectionibus secundum Guidonem Bonatum... De directionibus secundum Guidonem Bonatum...’ (285v–289v); ‘Sciendum quod regnum Bohemie incepit anno domini 1086 post coniunctionem magnam...’ (290r–290v); ‘Ad astrolabium. Lineas actuales 12 domus celi dividentes more Campani et Gazuli...’ (290v–292r); added table of contents of the following text (292v); Cristannus de Prachaticz, *Usus astrolabii* (293r–304v); ‘Horam integri horalogii sic invenies...’ (304v); 38 horoscopes: syzygies of 1487 and historical events linked to great conjunctions (305r–308r); Albertus de Brudzewo, judgement on the solar eclipse of 1487 (308v–313v); judgement on the nativity of Johannes Mangolt, born on 17 October 1468 (308^{bis}r–308^{ter}v); Albertus de Brudzewo, judgement on the great conjunction of 1484 (314r–316v); note ‘Item diligenter nota. Et memoria quod signum ascendentis tempore inceptions alicuius regni...’ (316v); mundane astrology ‘De inventionem orbis magni. Orbem magnum quotus sit taliter invenies...’ (317r–320r); eclipse tables (320v–322ra); ‘Autor summe Anglicane distinctione octava...’ (322rb); ‘Pro diversitate que habetur inter antiquos ex una et altera partibus... De introitu Solis in Arietem...’ (322v–323r); Albertus de Brudzewo, prognostication for 1487

(323v–330v); table of conjunctions 1487–1527 (331r); Johannes Virdung, autobiographical notes (331v–335r); Petrus Gaszowiec, *De mutatione aeris* (336r–344r); Hermes, *Liber de stellis beibeniis* (344v–345v); *Liber runarum* (346r–349r); table of computus (?) April–March (349v–350r); Johannes Virdung, autobiographical notes (350v). Blank: 9r, 12v, 204r, 210, 244v–245r, 256^{bis}v, 258r, 267, 335v.

Bibl. *IMLB*, 505–06; L. Thorndike, ‘Another Virdung Manuscript’, *Isis* 34 (1943), 291–93; Zinner 1964, 23–24; E. Poulle, ‘Activité astronomique à Cracovie au XV^e siècle’, in *Actes du XI^e congrès international d’histoire des sciences (Varsovie-Cracovie, 1965)*, Wrocław, 1968, III, 45–50 (reprinted in E. Poulle, *Astronomie planétaire au Moyen Âge latin*, Aldershot, 1996, XIV); Kristeller 1963–1992, I, 394; Rosińska 1984, 557 (index); Markowski 1990, 288–89; Schuba 1992, 236–44; Láng 2008, 327–28.

40r–40^{bis}v ‘Circulum pro exitu geniture ab utero iuxta verbum Ptholomei 51 rectificare. Sit tempus datum geniture — (40v) figura celi constituatur que erit finaliter rectificata.’

= **Albertus de Brudzewo** (?), *Circulum pro exitu geniture ab utero iuxta verbum Ptolomei 51 rectificare* (C.3.17). Substantial glosses by the scribe (Johannes Virdung), which are continued over an added sheet of paper (f. 40^{bis}r–40^{bis}v) and discuss a nativity of 1510. Some of the glosses are perhaps by another hand.

127r–127v ‘Nature particulares signorum et facierum earum quas ponit Ptho<lomeus> secundo Quadripartiti, c<apitulo> 11, verificate per venerabilem egregiumque virum magistrum Petrum Gaschowicz me<dicine> doc<toem>. Totum signum Arietis facit tonitrua et relampagos — (Pisces) faciens grandinem <de natura> Saturni’ (in the form of a table).

= **Petrus Gaszowiec**, *Tabula de naturis particularibus signorum et facierum* (C.2.7). No glosses. Followed by two added notes: ‘Item, octava sphaera a tempore Ptholomey usque huc mota est 19 gradus et quasi per duas facies recessit octava sphaera a nona’ and ‘Nature signorum sunt duplices — ista natura loquetur presens tabula.’

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1445

s. XV^{ex} (mention of Maximilian elected king of the Romans in Frankfurt in 1486, f. 251v). **Or.:** southern Germany (Schuba); monogram ‘Rech’, ‘Reich’ or similar (f. 9r, 151r, 157r, 161r, 164v) by the scribe who copied f. 4–9, 147–175 and 221; several items are also found in MS [→]Vatican, BAV, Pal. lat. 1368, from western Germany, including a table of houses for latitude 49°35′ (f. 220v), i.e. Worms. **Prov.:** Elector Palatine Ottheinrich (1502–1559); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper and parchment, 251 f. (250 is missing in foliation), several hands.

Astrology and astronomy: short note ‘Albumasar: Coelum est liber magnus continens omnia...’ (1v); ‘Lunam quando tenet Aries capiti nil...’ (2r–2v); table: *De electionibus secundum cursum*

Lune per XII signa, with canon (3r–3v); **Ptolemaica** (4r–9r); Leopold of Austria, *De astrorum scientia*, ending abruptly towards the end of Book VIII (12r–137v); astrometeorology ‘Quicumque vult auram cuiuslibet mensis diiudicare...’ (143r–145v); ‘Incipit tractatus de significationibus duodecim signorum quando fuerint ascendentia in revolutionibus annorum... Ascendens anni omni anno...’ (147r–151r); *Capitula Almansoris* (151v–157r); Hermes, *Centiloquium* (157v–161r); Zael, *Quinquaginta precepta* (161v–164v); ‘Sequuntur 121 considerationes Guidonis Bonatti de Forlivio abbreviate per magistrum Johannem [Johannes de Wachenheim]. Primo tres sunt motus ad movendum hominem ad interrogandum...’ (165r–175r); Pseudo-Albertus Magnus, *Speculum astronomie* (176r–187v); ‘Utrum anima coniuncta corpori possit per artem magicam aliqua mira ostendere...’ (189r–197r); Alfonsine tables with canons by John of Ligneres (219r–223v); star catalogue (224r–246v), with canons ‘Harum loca stellarum verificata fuerunt anno Christi 1429^o...’ (247r–249r); astronomical diagram (249v); notes and horoscope of Christ (251v). Blank: 1r, 9v–11v, 137^{bis}r–142v, 146, 175v, 188, 197v–218v, 251r.

Bibl. *IMLB*; Zinner 1964, 24–25; Zambelli/Caroti 1977, 95; Schuba 1992, 251–53; Paravicini Bagliani 2001, 16.

4r–9r ‘Volo in hoc tibi dare exemplum trium nativitatum intendas quicquid locuti sumus in eis. Prima est nativitas mea — et Deus te dirigat in viam rectam.’
= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2).
Haly’s appendix only. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1446

s. XIV² (for f. 58–129, copied in 1372, cf. f. 105v: ‘In hoc libro florum Albumasar finite anno 1372^o, feria tertia post Urbani’ and 126v: ‘Finitus est liber iste anno domini 1^o3^o7^o2^o, feria quarta, crastino Vite...’; f. 1–57 date from the 15th c.). **Or.:** Germany. **Prov.:** Petrus Diel of Alzey (cf. f. 1r), rector of the University of Heidelberg in 1514–1515; Heidelberg, university library (?); Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Parchment and paper (f. 1–57) and paper (f. 58–129), 129 f. Composite MS made of two parts: I, f. 1–57, several hands; II, f. 58–129, a single hand.

Astrology and astronomy: *Alchandreana* ‘Accipiat nomen suum maternumque et fatale non illatum...’ (1r–20v); onomancy ‘Recipe nomen matris et nomen cuiusvis...’ (21r); notes ‘De nono domo secundum quod est domus...’ (21r); ‘Qui natus fuerit in signo Aquarii erit honoratus...’ (22r–30r); ‘Qui natus fuerit in signo Arietis vigiles erunt (!) et peregrini...’ (30v–31r); geomantic figures (31v); ‘Quando Sol intrat Arietem in die sancti Gregorii kal. Aprilis (!) sicut aer est die precedente...’ (32r); ‘Item si scire desideras in quo anni mense erit bonorum caristia...’, partly in German (32v–33v); planetary almanac starting in 1340 ‘perfectus’ (36r–47v); planetary tables (49r–56r); ‘De planetarum amicitia et inimicitia. Iupiter diligit per omnes planetas et est amicus...’ (58r); *Liber Arzachelis introductorius ad librum iudiciorum Arabum*, abrupt end (58r–65r); ‘Cum per signa data membris vaga Luna vagatur...’ (65v); ‘Primus domus est cuius initium oritur vel ascendit in oriente...’ (66r–67r); tables and notes on exaltations, signs, terms, degrees, aspects etc. (68r–69v); ‘Quid planete operentur in conceptione puerorum videamus.

Primus mensis conceptionis Saturni, secundus Iovis...’ (70r–72r); ‘De Saturni complexione et significatione. Et dixit Messehalla quod omnes ei iunguntur et ipse nulli et ipse fidem Iudaycam et indumenta nigra...’ (72r–73v); ‘Incipit de domibus accidentalibus circuli et quid in eis planete in questione nati. Collectio verborum in iudicium secundum Habuelo. Aspice unamquamque domorum et que fortunarum... Explicit compedium Albumasar in quo capitula continentur que oblata sunt Almaeon regi Sarracenorum a magno astrologo Toletano Abrahe Iudei filio’ (74r–80r); ‘Causam mortis accipe ab ascendente et eius domo...’ (80r–80v); ‘De corpore humano. Saturnus aurem dextram, splenem, vesicam...’ (81r–81v); ‘De planetarum domibus et ceteris accidentalibus circuli. Incipit tractatus Alkabicii. Circulus figuratur omni hora...’ (82r–85r); ‘Iactus radiorum. Planeta qui est in decimo recipit radios ab eo qui...’ (85v); ‘Interrogatus an consequatur substantiam quam cupit et sperat...’ (86r–88v); geographical coordinates of cities (88v); ‘Lucentes in Ursa Minore sunt ex natura Saturni et Veneris... Finis huius Alkabicii tractatus’ (89r–89v); Albumasar, *Flores* (90r–103r, with explicit after Gergis’s text f. 105v); Gergis, *De significatione septem planetarum in domibus* (103r–105v); Messahallah, *Liber receptionis*, preface and chs 1–7 ‘Secretorum iudiciorum liber Messehalach incipit hic. Exposuitque eum quidam et patefecit in omnibus quibus indigent...’ (106r–110v); ‘Significator intentionum et cogitationum erit ille secundum Ptolomeum cui merguntur plures fortitudines...’ (110v–111r); **Ptolemaica (111r–111v)**; ‘Aries habet caput, faciem, pupillam et intestinam...’ (111v); Messahallah, *Liber receptionis*, chs 12 and 8 ‘Interrogatio cuiusdam ducis quem preposuit rex Affrice...’ (111v–114r); notes ‘Nota. Dixit Hermes quo Lune locus in hora qua infunditur sperma...’ (114r–114v — only the first lines correspond to Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)); tables: dignities of the planets in the 12 signs (114v–116v); astrological tables and notes (117r–118r); *Alchandreana* ‘De stellis fixis. Alnatha, prima scilicet parte Arietis que est, et 3 habet stellas...’ (118v–120r); ‘Arietis fortuna est in milicia et serviciis aliorum...’ (120r–120v); elections from the aspects of the Moon with the other planets ‘Sol cum sextilis est a Luna dies fortunata ad loquendum regibus...’ (120v–121r); ‘Scito quod visiones dividuntur in 3 partes...’ (121r–121v); ‘Aries est signum mobile, calidum et de signis bonis et equalibus...’ (121v–125r); ‘Mansiones Lune alie sunt temperate, alie sicce, alie humide...’ (125r–125v); *Excerptum de astrologia Arati* (126r–126v); notes on fixed stars (127v). Blank: 21v, 34–35, 48 (except added notes f. 48v), 56v–57, 67v, 127r, 128–129 (except scattered notes f. 129v).

Bibl. *IMLB*, 507; Zinner 1964, 25; Schuba 1992, 253–57.

111r–111v ‘De occultatis seu sepultis. <P>tolomeus dixit: Si aspexerit significator ascendens erit genus rei occulte — et ita de reliquis domibus.’
= **Pseudo-Ptolemy, *De occultatis* (B.7)**. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1811

s. XIV¹ (f. 47–64, dated 1347, cf. colophon f. 64vb; the other parts of the MS date from the 14th to the 16th c.). **Prov.:** Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper and parchment, 179 f. Composite MS made of five parts (f. 1–46, 47–64, 65–106, 107–136 and 137–175) of various dates and origins united after 1623. The second part (f. 47–64, parchment) is copied in a single neat hand.

Ptolemaica (single text) (f. 47–64). The other parts of the MS deal with non-scientific topics, except the third part (14th c.), which contains the *Cyrurgia Theodorici* (f. 66ra–104vb).

Bibl. *IMLB*, 581; Kristeller 1963–1992, II, 592; E. Pellegrin, J. Fohlen, C. Jeudi, Y.-F. Riou, *Les manuscrits classiques latins de la Bibliothèque Vaticane*, II.2, Paris, 1982, 410–11; Lemay 1999, I, 321.

47ra–64vb ‘Liber astrologicus de scientia stellarum [title added by a 15th- or 16th-c. hand]. <I>am scripsi tibi, Iesure, libros de hoc quod operantur (crossed out: in Quadrup<ar>tito) stelle in hoc seculo... Primum verbum [title added in the margin by another hand]. <S>cientia stellarum ex te et ex illis est. Astrologus non debet dicere rem specialiter sed universaliter... (47rb) <Q>uod dixit Pto<lome>us, ex te et illis, (added above the line: significat) quod qui res futuras scire desiderat... (47va) <M>undanorum mutatio ad hoc et ad illud corporum supercelestium... <D>octrina stellarum ex te ex illis est. Nec est doctrina mea ut propter hanc formam — (64rb) et ego Deum precor ut te diligit. Et perfecta est huius libri translatio 17 die mensis Martii, 12 die mensis Gam<er>oisi anno Arabum 532. <S>telle cum caudis sunt 9 — in regibus et divitibus apparebit. Finito libro, sit laus et gloria Christo M^oCCC^{mo}XLVII^o.’

= Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1), with the propositions also given in the ‘Mundanorum’ version (C.3.1.3) and in Adelard of Bath’s translation (B.1.1) (= ‘threefold’ version). The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 64rb–64vb (see below). A few corrections by the scribe and by another hand f. 47r–50r. Glosses by yet another hand f. 47r.

64rb–64vb ‘<S>telle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= Pseudo-Ptolemy, *De cometis* (B.4), as part of the *Centiloquium* (see above). No glosses.

Vatican, Biblioteca Apostolica Vaticana, Pal. lat. 1892

s. XVIⁱⁿ (f. 79–122; the other parts of the MS date from c. 1400 to the 16th c.). **Prov.:** Heidelberg, Bibliotheca Palatina; Vatican library in 1623.

Paper and parchment, 266 f. Composite MS made of six parts of various dates and origins (f. 1–48, 49–78, 79–122, 123–132, 133–261 and 262–266), the third of which (f. 79–122, paper) is in two hands (f. 79–98 and 99–122).

Medicine, astrology and magic (f. 79–122): ‘Caput phisicum de modo intelligendi hominis et ab intra et ab extra exorditur. Homo quum sit secundum Ysidorum animal forme Dei...’ (79r–98v); **Ptolemaica** (99r–103v); *Liber vacce* (103v–119v); tables: magical ‘characters’ for the 12 months, 24 hours, 4 seasons, 12 signs etc. ‘Ista est tabula karacterum 12 mensium Iudeorum et suorum dierum...’ (120r–121v). Blank: 122. The other parts of the MS mainly deal with medicine.

Bibl. *IMLB*, 595; Thorndike 1948, 47–48; Kristeller 1963–1992, II, 395; L. Schuba, *Die medizinischen Handschriften der Codices Palatini Latini in der Vatikanischen Bibliothek*, Wiesbaden, 1981, 488–91; Kristeller 1963–1992, VI, 361–62.

99r–103v ‘Incipit liber de iudiciis partium Ptolomei. Et primo de parte fortune, hic accipitur in die a Sole in Lunam, in nocte e converso, et proicitur ab ascendente. Quoniam in primo libro partium terminos et loca posuimus, iudicia sub earundem ministrare curavimus. Pars fortune et eius dominus corpus et que ad corpus attinent — partis significationem aut eius domini hiis 12 mensibus mutatur.’

= **Pseudo-Ptolemy, *Liber de iudiciis partium* (B.8)**. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Reg. lat. 1012

s. XIII or XIV. **Prov.:** Queen Christina of Sweden.

Parchment, 74 f., a single hand.

Astronomy and mathematics: ***Ptolemaica* (1r–73r)**; Thebit Bencora, *De figura sectore*, tr. Gerard of Cremona, excerpt ‘Iam vero ostendimus in modo secundo...’ (73r–73v); Apollonius, *Liber de pyramidibus* (74r–74v, fragment); added notes on geometry (74v).

Bibl. Kristeller 1963–1992, II, 400; Zepeda 2018, 65–66.

1r–73r ‘Omnium recte phylosophantium verisimilibus coniecturis credibilibus — tenebrarum sic se habent. Explicit liber sextus. Amen dico amen. Totus liber continet 156 conclusiones.’

= ***Almagesti minor* (C.1.4)**, with f. 48–59 (containing VI.1–VI.23) to be read between f. 71 and 72. Short marginal notes by the scribe f. 1v–2r, 32r–32v, 38v and 47r. Glosses by a later hand f. 4r and 5v.

Vatican, Biblioteca Apostolica Vaticana, Reg. lat. 1241

s. XV^{ex} (copied in 1493, cf. 151v: ‘Anno 1493, die 27 Aprilis, hora 22’, and f. 178r: ‘Canonum pro astrolabii usu finis anno 1493 currente in Maiio (!), d<ie> 11, hora 3’; 1493 is also the date of the first item, cf. colophon f. 4v: ‘Anno 1493 sexto idus Iunias’). **Or.:** probably Guilhelms Copp of Basel, who authored the first item (1r–4v) and (in all likelihood) wrote ‘Pertinet Gulielmo Copo medico’ (6r). **Prov.:** Queen Christina of Sweden.

Paper, 178 f., a single hand.

Astronomy: Guilhelms Copp of Basel, letter to Conrad Heingarter ‘Cum humane conditionis fragilitatem in animo...’ (1r–4v); astronomical diagram ‘Figura motus Solis’ (5v); *Theorica planetarum Gerardi* (6r–32v); ***Ptolemaica* (33r–41r)**; Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (41v–45r); astronomical diagram, notes and tables about the size and distances of celestial bodies (45v–46v); Alfraganus, *De scientia astrorum*, tr. John of Seville (47r–107v); chapter from the canons of the Toledan tables (107v–108r); John

of Lignerres, *Canones primi mobilis* (109r–151v); astronomical tables with canons (152v–164r); ‘Astrolabii compositio. Astrolabium ita constituitur, recipe tabulas...’ (165r–170r); ‘Usus astrolabii. Scribitur primo posteriorum in omni scientia...’ (171r–178r). Blank: 5r, 108v, 152r, 164v, 170v, 178v.

Bibl. *MRSV*, 32 (no. 498); Kristeller 1963–1992, II, 401; Pedersen 2002, I, 179.

33r–41r ‘Incipit liber Thebith de hiis que indigent expositione antequam legatur Almagestum. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Τελος.’
= **Thebit Bencora**, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Vatican, Biblioteca Apostolica Vaticana, Reg. lat. 1261

s. XIII² (Björnbo and Clagett mistakenly dated the MS to the 14th c.). **Or.:** France, probably Paris (the MS is glossed by Peter of Limoges and its scribe also copied texts on astrology, geometry and optics in MS Paris, BnF, lat. 7434 (f. 72r–101v), a composite MS assembled, partly copied and glossed by Peter of Limoges). **Prov.:** Peter of Limoges; perhaps college of Sorbonne; Queen Christina of Sweden.

Parchment, I + 296 f., a single neat hand, decorated initials.

Geometry, astronomy, astrology and arithmetic: table of contents, medieval (Iv); **Ptolemaica** (1r–49r); two diagrams and a note on retrogradation ‘Nota: P est centrum terre, O centrum ecentrici deferentis...’ (49v); Jordanus de Nemore, *De ratione ponderis* (50r–56r); *Liber de canonio* (56r–58r); Robert Grosseteste, *De cometis* (58r–59r); Richard of Fournival, *Nativitas* (59r–60v); Euclid, *Elementa*, ed. Campanus of Novara (61r–197v); Campanus of Novara, reworking of Theodosius’s *Spherica* (197v–222v); Menelaus, *Spherica* (223r–257v); Jordanus de Nemore, *De plana spera* (257v–261v); Alhazen, *De speculis comburentibus* (262r–265r); Apollonius, *Liber de pyramidibus* (265r–266r); Gernardus, *Algorismus demonstratus* (266v–289r); ‘Cuiuslibet artis studium ad astronomiam spectat... Tres circulos in astrolapsu descriptos...’ (289r); ‘Practica geometrie. Geometrie due sunt partes principales...’ (289v–292v); geometry ‘Artis cuiuslibet consummatio...’ (292v–296v).

Bibl. Björnbo 1902, 146–50; A. Birkenmajer, ‘Pierre de Limoges commentateur de Richard de Fournival’, *Isis* 40 (1949), 18–31: 19–25 and 27 (reprinted in Birkenmajer 1970, 222–35); *MRSV*, 63 (no. 1151); Clagett 1964–1984, I, xxviii; Kristeller 1963–1992, II, 595; Panti 2001, 254; Zepeda 2018, 56.

1r–49r ‘Incipit liber primus Almagesti minoris. Omnium recte philosophantium non solum verisimilibus et credibilibus argumentis — tenebrarum sic se habent. Explicit liber sextus Almagesti minoris.’
= **Almagesti minor** (C.1.4). Glosses by Peter of Limoges f. 2r, 4v, 6r, 7v, 19r, 19v, 24v, 31v, 32v, 33r, 48r. A short gloss by a later hand f. 12v. The work is labelled ‘Liber Almagesti demonstratus, libri 6’ in the table of contents f. Iv. This section was most probably copied on MS ⁷Paris, BnF, lat. 16657.

Vatican, Biblioteca Apostolica Vaticana, Reg. lat. 1285

s. XIII¹ (between 1220 and 1240 acc. Georges). **Or.:** Bologna (Georges), the same scribe copied MS $\neg$ Vatican, BAV, Vat. lat. 6795. **Prov.:** Pierre Michon-Bourdelot (d. 1685), who left his library to Queen Christina of Sweden c. 1653.

Parchment, 162 f., a single hand.

Astrology and astronomy: table of contents, late medieval (inner front cover); Ibn al-Šaffār, *De opere astrolabii*, tr. John of Seville (1ra–8rb); canons of Toledan tables (8rb–12vb); tables for fractions (13r–13v); algorism ‘Incipit introductorius liber qui et pulveris dicitur...’ (14ra–20vb); canons of Toledan tables (21ra–36ra); astrolabe ‘Astrologie speculationis exercitium habere volentibus...’ (36ra–38rb); Pseudo-Messahallah, *De compositione astrolabii*, second part on uses (38rb–41rb); canons of Toledan tables (41rb–42ra); **Ptolemaica (42ra–42va)**; Zael, *Introductorium*, 18 and 17 (42va–42vb); Albumasar, *De magnis coniunctionibus* (43ra–99vb); *Liber erarum* (99vb–102v); **Ptolemaica (103ra–138rb and 138rb–138va)**; Alcabitus, *Introductorius* (139ra–151vb); elections from the aspects of the Moon with the other planets (152r); ‘Cum fuerit Luna cum Capite vel Cauda in uno signo est dies cavenda in omnibus...’ (152ra–152va); **Ptolemaica (153ra–162ra)**. Blank: 162v.

Bibl. E. Narducci, ‘Sur un manuscrit du Vatican du XIV^e siècle contenant un traité de calcul emprunté à la méthode “Gobâri”’, *Extrait du Bulletin des Sciences Mathématiques*, 2^e série, 7 (1883), 247–56; Heiberg 1907, xii; *MRSV*, 33 (no. 501); E. Pellegrin, ‘Catalogue des manuscrits de Jean et Pierre Bourdelot. Concordance’, *Scriptorium* 40 (1986), 202–32: 218 (no. 223); Pedersen 2002, I, 180; Georges (forthcoming).

42ra–42va ‘Verbum 10: Uti oportet infortunis in electionibus sicut periti medici utuntur venenosis secundum competentem quantitatem. Verbum 14: Quantum erit error astrologi — Verbum 94: Locus fortioris significatoris in interrogatione signabit quod est in animo interrogantis.’
= **Abuiafar Hamet filius Joseph, (Commentum in Centiloquium), tr. Plato of Tivoli (C.3.1.1)**, v. 10, 14, 19–22, 38, 41, 54–59, 86, 91 and 94, without the commentary. A few short marginal notes by the scribe.

103ra–138rb ‘Incipit liber 4 tractatum Ptolomei Alfilludhi in scientia iudiciorum astrorum et in primo tractatu sunt 24 capitula. Capitulum primum in collectione intellectus scientie iudiciorum astrorum. <R>erum, Yesure, in quibus est prognosticabilis scientie stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro finem inponere non incongruum existimamus. Explicit liber quatuor Batloon (?) in iudicandi discretione per stellas de futuris et in hoc mundo constitutionis et destructionis contingentibus.’
= **Ptolemy, Quadripartitum, tr. Plato of Tivoli (A.2.1)**. I, 103ra–111va; II, 111va–119va; III, 119va–131rb; IV, 131rb–138rb. Substantial glosses by the scribe, some of which introduced by ‘In alio’, ‘In alio libro’, ‘Dixit Ali...’ or ‘Sensus huius littere...’

- 138rb–138va ‘Scientia proiectionis radiorum. Cum proiectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate.’
= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6).**
Glosses by the scribe.
- 153ra–162ra ‘Planispermium Ptolomei Hermanni Secundi translatio. Quemadmodum Ptolomeus et ante eum nonnulli veteris auctoritatis viri antiquas seculi scribunt ystorias... (153vb) Cum sit possibile, Iesure, et plerumque necessarium ut in plano represententur circuli in speram corpoream incidentes — (160va) cum ipsis circulis tropicis et cum circulis meridianis signa distinguuntibus. Explicit liber anno domini MCXLIII kal. Iunii Tolose translatus. Dixit Maslem: Et si intenderet Ptolomeus (161rb) est equalis multiplicationi EF in se, et illud est q<uod> d<emonstrare> v<oluimus>. Capitulum quod non est de libro quod edidit Abualcatim Maslem filius Ameti. Dixit Maslem filius Hameti: Iam rememoratus est Ptolomeus in hoc libro — et secundum hoc perficietur tibi quod volueris de scientia tabularum. Et laus sit Deo creatori gentium.’
= **Ptolemy, *Planispherium*, tr. Hermann of Carinthia (A.6.1), Class II.**
Translator’s preface, 153ra–153vb; text, 153vb–160va; Maslama’s Notes 5, 8 and 10, 160va–161rb; Maslama’s Extra Chapter, 161rb–162ra. A few glosses by the scribe.

Vatican, Biblioteca Apostolica Vaticana, Reg. lat. 1452

s. XIVⁱⁿ (eclipse table 1309–1312 f. 119v in the hand of the scribe; Leonardi and Pellegrin/Fohlen/Jeudi/Riou date the MS to the late 13th or early 14th c.). **Or.:** France, probably southern France. **Prov.:** Dalmatius Rapina, deacon of the church of Cébazat (Puy-de-Dôme), who died before 1382 and bequeathed the MS to the Dominicans of Clermont-Ferrand (cf. f. 121v: ‘Precedentes tractatus astronomie omnes et singulos dedit isti conventui Clarom<ontis> ordinis fratrum predicatorum dominus (?) Dalmatius Rapina quondam decanus ecclesie Sebazari cum ceteris bonis suis mobilibus et est hic sepultus in habitu ordinis nostri, anima eius per Dei misericordiam requiescat in pace. Amen’); Nicolas Le Clerc of Paris, from the library of his father (cf. f. 122r: ‘Sum Nicolai Le Clerc Parisiensis, ex biblioteca patris’, 17th-c. hand); Alexandre Petau in 1637; Queen Christina of Sweden.

Parchment, I + 122 f., a single hand. A detailed table of contents of the MS is found in MS Vatican, BAV, Reg. lat. 1454 (f. 1v–2r), with which the present MS once formed one volume. Reg. lat. 1454, copied in a different 14th-c. hand, contains a collection of classics.

Astrology and astronomy: table of contents by Alexandre Petau (Iv); Alcabitius, *Introductorius* (2ra–13va); Martianus Capella, *De nuptiis Mercurii et Philologiae*, Book VIII (13va–17va); Alfraganus, *De scientia astrorum*, tr. John of Seville (17va–29ra); Jafar, *Liber imbrium* (29rb–32va); **Ptolemaica** (33ra–45vb); Haly Embrani, *De electionibus horarum* (46ra–57vb); ‘Cavendum est ab inpedimento Lune sicut dicit Dorocius et ceteri sapientes...’ (57vb); Pseudo-John of Seville, *Epitome totius astrologie* (58ra–76va); Thebit Bencora, *De imaginibus* (76va–78rb); **Ptolemaica** (78va–79va); ‘De mirabilibus effectibus

tonitruum et coruscationis. Videbatur autem multis philosophis quod tonitruum esset res divina...' (79vb–81va); Haly Abenragel, *De iudiciis astrorum*, excerpts (81va–87rb); Raymond of Marseille, *Liber iudiciorum*, attr. Algafalax (87rb–96ra); Zael, *De electionibus* (96ra–102vb); Zael, *Liber temporum* (102vb–104va); Messahallah, *Epistola de rebus eclipsium* (104va–106rb); Albumasar, *Flores* (106rb–115va); **Ptolemaica (115va–117va)**; 'Dixit Agaphalus sapientissimus in astronomia: Die Solis qui in locum (!) ceciderit si in die quinta post horam sextam levior...' (117va); two short chapters 'Accipe nomen (?) ... (?) nuncii et diem qua nuncius venit, coniunge litteras...' and 'Separatio Lune a planetis ostendit causam infirmitatis...' (117vb); **Ptolemaica (117vb)**; table 'Tabula magistri Petri Philomene de Dacia ad inveniendam propositionem (!) cuiuslibet numeri' (118r–119v); table of eclipses 1309–1312 (119v); **Ptolemaica (119va–120vb and 121r–121v)**. Blank: Ir, 1, 122 (except owner's note f. 122r).

Bibl. Leonardi 1960, 468–69 (no. 207); *MRSV*, 32 (no. 495); Kristeller 1963–1992, II, 402; E. Pellegrin, J. Fohlen, C. Jeudi, Y.-F. Riou, *Les manuscrits classiques latins de la Bibliothèque Vaticane*, Paris, II.1, Paris, 1978, 217–18; Pedersen 1983–1984, I, 461–62; Lemay 1999, I, 321–25; Bohak/Burnett 2021, 85–86.

33ra–45vb 'Incipit Centiloquium Ptholomei cum commento Haly. <D>ixit Ptholomeus: Iam scripsi, Ihesure, libros hiis qui volunt prescire futura et hic est fructus de hoc quod operantur stelle in hoc seculo... <D>ixit Ptholomeus: Scientia stellarum ex te et ex illis est. Astrologus non debet dicere rem specialiter sed universaliter... <M>undanorum mutatio ad hoc et ad id celestium corporum... <D>octrina stellarum ex te que ex illis est. Nec est doctrina eis ut propheres formam... (33rb) Quod dixit Ptholomeus, ex te et illis est, significat quod qui res futuras scire desiderat — Deum deprecor ut te diligit. Et perfecta est huius libri translatio tertia die mensis Martii et secunda die mensis Gimedi secundi anno Arabum 530. Explicit Centiloquium Ptholomei cum comento Haly. Deo gratias.'

= **Abuifafar Hamet filius Joseph, <Commentum in Centiloquium>, tr. Plato of Tivoli (C.3.1.1)**, with the propositions also given in the 'Mundanorum' version (C.3.1.3) and in Adelard of Bath's translation (B.1.1) (= 'threefold' version). No glosses.

78va–79va 'In nomine domini nostri Ihesu Christi incipit liber de ymaginibus astronomicis Ptholomei. <O>pus magnum secundum consilium Ptholomei et est omnibus modis proprius et veracior in probatione quoniam eius effectus concitatus est super facies 12 signorum. Dixit Albucabel Felix quia omnes orientales operabantur per has ymagines — a loco flatus venti et videbis mira. Explicit liber de ymaginibus astronomicis Ptholomei. Deo gratias. Amen.'

= **Pseudo-Ptolemy, De imaginibus super facies signorum (B.14)**. No glosses.

(115va–120vb) 'Verbum undecimum in Centiloquio Tholomei. <N>on eligas nisi illi cuius tibi patuerit — (117va) donec iteret interrogationi. (117vb) Verbum tertium in Centiloquio. Ille qui facit aliquod opus ex nova inveniet in nativitate sua

planetam fortem ex natura illius. Commentator Hali contra istud verbum: Docebit te Ptholomeus in hoc libro — in alio libro extra hunc. Intentio huius capituli est quod — habemus m...s (?) nati. (119va) <A>lboram certe et sunt hore quibus declarantur mutationes morborum — aut in eclipsi Solis vel Lune.’
 = **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**, selection of *verba* (proposition and commentary) in three groups as follows: v. 11–15, 18–23, 32–36 and 81–82 (f. 115va–117va); 3–5, 80 and 86 (f. 117vb, same hand in smaller script, perhaps added later); and 60–63 (f. 119va–120vb). These three groups of *verba* are interspersed with extraneous material (see above). A comm. on v. 62 has been inserted into the text (f. 120va–120vb): ‘Sensus capituli est quod illud quod significat cum (?) radiorum scitur quando debeat fieri per coniunctionem mediam, hoc modo in coniunctione maiori facienda est — cum maiori se propria non erit illud adeo forte.’ Glosses by the scribe.

- 121r–121v ‘<A>lbaharin etc. In ista 60 propositione Ptholomeus tria tangit. Primum est de occasione dierum creatorum, secundum de diebus indicativis crisis — et acuta ut de magna causa et brevi. Explicit. Amen. Notandum quod significator quem intendit Tholomeus non est Luna nec ille qui — nulla fortitudo est in significatione.’
 = **Glosa super 60 propositionem Centilogii Ptholomei (C.3.2)**. No glosses. The text has been copied in smaller script, possibly at a later stage.

Vatican, Biblioteca Apostolica Vaticana, Reg. lat. 1692

s. XIII^{ex}–XIVⁱⁿ (f. 272–290; the other parts of the volume date from the 15th and 16th c.). **Or.:** France. **Prov.:** André Thevet (d. 1590), who probably assembled the volume (his name with the dates 1552, 1554 and 1565 occurs f. 94v, 290v and 129v respectively, and his name only f. 210v, 242r and 242v); Paul Petau in 1614 (f. 1r, 11v); Queen Christina of Sweden.

Paper, 291 f. Composite volume mixing printed texts (f. 1v–5v, 11v–174 and 217–242) and manuscripts (f. 178–216 and 243–290) in five main units: I, f. 1–174 (ed. Leuven, Johann de Westphalia, c. 1483); II, f. 178–216 (a single late 15th-c. hand); III, f. 217–242 (ed. Strasbourg, Martin Flach, before 1488); IV, f. 243–271 (two 16th-c. hands); V, f. 272–290 (two 13th–14th-c. hands: I, f. 272–289vb, decorated initials, missing folia in the beginning; II, f. 289vb–290).

Astrology (f. 272–290): **Ptolemaica (272ra and 272rb–289vb)**; *De Antichristo* ‘Ad ultimum quedam pauca sed utilia et subtilia sub sermone compendioso...’ (289vb–290vb). The other parts of the volume deal with astrology, astronomy and computus. The printed texts include Pierre d’Ailly’s works, *Imago mundi* (1v–5v and 12r–44r), *Epilogus mappe mundi* (44r–48v), *Tractatus de legibus et sectis contra supersticiosos astronomos* (49r–62v), *Exhortatio ad concilium generalem super kalendarii correctione* (62v–68v), *De vero cyclo lunari* (68v–72r) with letters to John XXIII (72r–73r), *Compendium cosmographie* (73r–94r), *Vigintiloquium de concordia astronomice veritatis cum theologia* (95r–108r), *De concordantia astronomice veritatis et narrationis historice* (109r–126r), *Elucidarium astronomice concordie cum theologica et historica veritate*

(126r–148r), *Apologetica defensio astronomice veritatis* (148r–150v), *Secunda apologetica defensio astronomice veritatis* (150v–153r) and *De concordantia discordantium astronomorum* (153r–162v); Johannes Gerson, *Tricelogium astrologie theologizate* (162v–170v); Johannes Gerson, *Contra superstitiosam dierum observantiam* (171r–174r); Johannes Gerson, *Contra superstitionem sculpture Leonis* (174r–174v); Nicolaus Cusanus, *De correctione kalendarii* (217r–224r); Nicolaus Cusanus, *De mathematicis complementis* (224v–242r). The manuscript parts include Pierre d'Ailly, *Exhortatio ad concilium generalem super kalendarii correctione* (178r–187v), with tables (188r–189r); William of Saint-Cloud, *Kalendarium regine Francie* (189v–216v); astronomical and astrological notes (243r–271v). The intervening folia (1r, 6r–11r, 175–177 and 291) contain various notes of astronomy, cosmology and geography by at least two 15th–16th-c. hands.

Bibl. *MRSV*, 32 (no. 490); Harper 1966, 17–18 ('Reg. lat. 1296' by mistake); Kristeller 1963–1992, II, 403; Lemay 1999, I, 278.

272ra '... hoc in loco huic libro Deo volente finem imponere non incongruum existimamus. Explicit liber ... (?) Ptholomei in iudicandi discretione per stellas de futuris in hoc mundo constitutionis et destructionis contingentibus. Deo gratias. Et perfecta est eius translatio de Arabico in Latinum a Tiburtino Platone, cui Deus parcat, die Veneris, hora tertia XX^{ma} die mensis Octobras, anno domini MCXXXVIII^e, XV die mensis Saphar, anno Arabum DXXXIII^e, in civitate Barchinona. Et Deus nos custodiat et actus nostros dirigat. Tu autem, domine, miserere nostri. Deo gratias.'

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**, last column only comprising the end of the text. No glosses.

272rb–289vb 'Dicit Ptholomeus: Iam scripsi tibi libros de hoc quod operantur stelle in hoc seculo... Verbum primum [title added by the glossator]. Scientia stellarum ex te et illis est... Expositio [title added by the glossator]. Quod dicit Ptholomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — et ego Deum deprecor ut te diligat. Perfecta est huius libri translatio 17 die mensis Mercur<ii> (!), 12 die mensis Iumedi secundi anno Arabum 530' (followed by an explicit added by the hand that copied f. 289vb–290vb: 'Explicit liber Centilogii Ptholomei qui perfectus fuit cum magno labore die Iovis post Brandones parum ante pulsationem matutinam in castello. Valet domine Thoma').

= **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. Glosses by a contemporary hand f. 280v and 281v, the former of which is a copy, in the margin of v. 51, of Pseudo-Ptolemy's *Dixerunt Ptholomeus et Hermes quod locus Lune...* (see below). On the same page (280v), a later (?) hand added further notes related to the topic: 'Ad inveniendum horam conceptionis sive casus spermatis dicit <Al>bubater...'. Two short marginal notes by two yet different hands on f. 281r.

280v 'Hermes et Ptho<lemeus> (?) d<ixerunt> (?) quod locus Lune in hora qua funditur sperma — expertus fuit multociens'

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as a gloss to v. 51 of the *Centiloquium* above.

Vatican, Biblioteca Apostolica Vaticana, Reg. lat. 1904

s. XV–XVI.

Paper, 103 f., fours hands (I: f. 1–56; II: f. 57–70r and 86–102; III: f. 70v–83v; IV: 84v and 85r).

Astronomy and mathematics: **Ptolemaica (1r–56r and 57r–61r)**; ‘Kardaga est porcio circuli ex 15 gradibus...’ (61r–62v); Thebit Bencora, *De figura sectore*, anonymous tr. (62v–70r); Jordanus de Nemore, *Elementa super demonstrationem ponderum* (70v–73r); *Liber de canonio* (73v–76v); fragment on the Roman balance ‘Queritur in longitudine...’, attr. Thebit (76v–77r); Pseudo-Euclid, *De ponderoso et levi* (77r–78r); Pseudo-Thebit Bencora, *De motu octave spere* (79r–83v); ‘Data elevationis (?) cum instrumento ab horizonte... Esto meridianus circulus ABCD...’ (84v); ‘Nota quod habita notitia arcus diei et altitudinis Solis...’ (85r); Euclid, *Elementa*, tr. Gerard of Cremona, excerpts XV.1–5 and XIII.16 (86r–90r); John of Ligneres, *Canones primi mobilis* (91r–102v). Blank: 56v, 78v, 84r, 85v, 90v, 103.

Bibl. Kristeller 1963–1992, II, 404.

- 1r–56r ‘Diffinitio tractatus tertii Iohannis de Blanchinis de Bononia. Si duo numeri ad invicem multiplicentur et productum per primum multiplicantem — et aggregati radix diminuta medietate arborum valet res.’
= **Giovanni Bianchini, *Flores Almagesti* (C.1.17)**. III, 1r–12r; IV, 12r–17r; V, 17v–37v; I, 38r–52r; II, 52v–56r. A few marginal notes by the scribe.
- 57r–61r ‘Incipit liber primus Thebith de his que indigent expositione antequam legitur Almagesti. <E>quator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Explicit Thebith filii Choraë de his quae indigent expositione antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. A few marginal corrections by hand IV.

Vatican, Biblioteca Apostolica Vaticana, Urb. lat. 267

s. XIV. **Or.:** copied by ‘Johannes de Olargiis civis Narbonensis’ (cf. colophon f. 21rb below and colophon f. 39vb: ‘quem hic scripsit magister Iohannes de Olargiis civis Narbonensis’). **Prov.:** Federico da Montefeltro, duke of Urbino (1474–1482).

Parchment, 40 f., a single neat hand, deluxe MS richly decorated, painted initials at the beginning of each section, including of each book of the *Quadripartitum*.

Astrology: chapter index of Ptolemy’s *Quadripartitum* (1ra–1rb); table of contents of the whole MS in a decorated diagram (3v); **Ptolemaica (4ra–21rb)**; Haly Embrani, *De electionibus horarum* (23ra–31rb); Aomar, *De nativitatibus* (33ra–39vb); ‘Ad inveniendum annos ab initio mundi secundum Hebraicam veritatem...’ (39va–40ra), with example for 1245 and a table. Blank: 1v–3r, 21v–22v, 31v–32v, 40v.

Bibl. C. Stornajolo, *Codices Urbinales latini*, I: *Codices 1–500*, Roma, 1902, 248–49; Rinaldi 2002, 111 (no. 8).

4ra–21rb ‘Incipit liber quatuor tractatum Ptholomei Alfihudhi qui arabice Alarba, grece Tetrastin, latine Quadripartitus dicitur, in scientia iudiciorum astrorum. Capitulum primum in collectione intellectus scientie iudiciorum astrorum. Rerum, Yesure, in quibus est pronosticabilis scientie stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro finem i<m>ponere non incongruum existimamus. Explicit. Explicit liber Alarba, id est quatuor tractatum, Ptholomei Pheludensis in iudicandi distinctione per stellas de futuris et in hoc mundo constructionis et destructionis contingentibus, quem Iohannes de Olargiis Narbonensis scripsit.’
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 4ra–8va; II, 8va–12vb; III, 12vb–18rb; IV, 18rb–21rb. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Urb. lat. 1393

s. XV² (between 1473 and 1477, this MS belongs to an early stage of Pontano’s commentary). **Or.:** Naples (corrections and additions in Pontano’s hand). **Prov.:** Federico da Montefeltro, duke of Urbino (1474–1482); Pope Pius VI.

Parchment, 92 f., a single neat hand.

Ptolemaica (single text). Blank: 2v, 90v–92v.

Bibl. C. Stornajolo, *Codices Urbinales latini*, III: *Codices 1001–1779*, Roma, 1921, 303.

1r–90r ‘Ioannis Ioviani Pontani liber primus commentationum in centum Ptolemaei sententiis ad illustrissimum principem Federicum ducem Urbinatem feliciter incipit. Prologus. Tametsi publicarum rerum administratio, bellique gerendi cura detertere me iure possent, Federice dux fortissime... (3r) Ioannis Ioviani Pontani commentationes in centum Ptolemaei sententiis incipient ad ill<ustrissimum> principem Federicum ducem Urbinatem. Textus Ptolemaei. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronunciet... Commentum Pontani. Nec medici, nec moralis philosophi sola est cognitio, sed quedam etiam operatio — septem simul planetarum coniunctione adiuncta. Ioannis Ioviani Pontani liber primus commentationum in centum Ptolemaei sententiis finit. MCCCCLXXVII [this last sentence added by Giovanni Pontano].’
= **Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16)**, Book I (v. 1–50). No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 971

s. XV² (c. 1468). **Or.:** Italy. **Prov.:** Cardinal Bessarion, who annotated the MS.

Paper, 129 f. two hands (I: f. 6r–124v; II: f. 2r–5v and 124v–126v).

Political texts: **Ptolemaica (2r–4v)**; George of Trebizond, *Comparatio philosophorum Aristotelis et Platonis*, preface to Mehmed II (4v–5v and 124v–126v); Rodericus (Sánchez de Arévalo), *Liber de sceleribus et infelicitate perfidi Turchi ac de spurcicia et feditate gentis et secte sue* (6r–124v). Blank: 1 (except for Bessarion's ex-libris f. 1v), 127–129.

Bibl. *ILLM*, II, 240–41; A. Pelzer, *Codices Vaticani Latini. Codices 679–1134*, Vaticano, 1931, 430–31; Monfasani 1984, 62–63 and 285; J. Monfasani, *'Bessarion Scholasticus': A Study of Cardinal Bessarion's Latin Library*, Turnhout, 2011, 174.

2r–4v 'Ad excellentissimum inclitum optimumque imperatorem Romanorum sedem Constantini virtute sua et victoria divinitus sibi concessa obtinentem Georgii Trapenzuntii. Oratio quod natura omnibus qui fuerunt imperatoribus praestantior est. Solent omnes qui aliquid excogitarunt — semper integro animo servitutum. Ex Gallata oppido Constantinopoli propinquo die XXV Februarii anno Christi 1465.'

= **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**, preface to Mehmed II only. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 1112

s. XIV.

Paper, 114 f., several hands.

Collection of questions and commentaries on Peter Lombard's *Libri sententiarum*. The truncated **Ptolemaic section** (f. 46r) is followed by an excerpt, in another hand, of Gregory of Rimini's lectures on the *Sentences* (46ra–46vb). The text opening 'Ptholomeus Almaiesti primo ignis quidem regionis etheree nequaquam descendit in horizonta...' (85rb–87rb) is only a collection of excerpts from Berengarius de Landorra's *Lumen anime*.

Bibl. *ILLM*, II, 293; A. Pelzer, *Codices Vaticani Latini. Codices 679–1134*, Vaticano, 1931, 731–35.

46ra '... plus quam mora minor et si fuerit ab oriente in occidentem super terram erit plus quam mora media — et cum eo quod remanserit equa Lunam et gradus ubi eam inveneris erit ascendens nativitatis. <D>ixit Abraham Iscendent: Gradus ascendens hora infusionis spermatidis non erit ex toto — hoc expertus erat multotiens et Iohannes.'

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, beginning gone due to at least one missing folio before f. 46. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 2054

s. XV² (the copy of the *Almagest* was completed before George of Trebizond's death in 1472, while his son, Andreas, wrote the preface to Sixtus IV in 1480 or 1481, see Monfasani,

787–88). **Or.:** George of Trebizond, who corrected the MS. **Prov.:** Andreas of Trebizond; Pope Sixtus IV (?).

Paper, 235 f., two neat hands (f. 1r–3v and f. 4r–235r), deluxe MS richly decorated on f. 1r (coat of arms of Sixtus IV), painted initial at the beginning of each book of the *Almagest*.

Ptolemaica (single text). Full chapter index of the *Almagest* (233r–235r). Blank: 232v, 235v.

Bibl. *ILLM*, III, 293; Nogara 1912, 432–33; Monfasani 1984, 63.

1r–232r ‘Ad sanctissimum dominum nostrum Sixtum Quartum pont<ificem> max<imum>, Andree Trapezuntii, Georgii filii, in paternam Almagesti Ptolomaei traductionem prefatio. Evolventi mihi nuper libros patris mei, Georgii Trapezuntii, viri optimi et omni doctrinarum genere insignis... (3v) Magne compositionis Ptolomei libri a Georgio Trapezuntio e Graeco conversi incipiunt. Peroptime mihi videntur, o Syre, qui bene philosophati sunt, speculativam philosophie partem ab activa separasse — idoneum hic modum ac finem haec est compositio consecuta.’
= **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**. Andreas of Trebizond’s preface to Sixtus IV, 1r–3v; I, 3v–20r; II, 20v–45v; III, 45v–61r; IV, 61r–78v; V, 78v–99r; VI, 99v–119r; VII, 119v–137r (137v is blank); VIII, 138r–148r; IX, 148v–168r; X, 168r–181r; XI, 181r–198v; XII, 199r–213v; XIII, 214r–232r. A few corrections by George of Trebizond throughout.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 2055

s. XV^{ex} (in or after 1480–1481). **Or.:** Andreas of Trebizond. **Prov.:** Sixtus IV (?).

Parchment, 216 f., a single neat hand, deluxe MS richly decorated on f. 1r and 3v (coat of arms of Sixtus IV), large painted initial at the beginning of each book of the *Almagest*, small painted initial at the beginning of each chapter.

Ptolemaica (single text). Full chapter index of the *Almagest* (214r–216r). Blank: 213v, 216v.

Bibl. *ILLM*, III, 293; Nogara 1912, 433; Monfasani 1984, 63–64.

1r–216r ‘Magne compositionis Ptolomei li<bri> a Georgio Trapezuntio traducti p<r>aefatio auctoris. Evolventi mihi nuper libros patris mei, Georgii Trapezuntii, viri optimi et omni doctrinarum genere insignis... (3v) Peroptime mihi videntur, o Syre, qui bene phylosophati sunt, speculativam philosophie partem ab activa separasse — idoneum hic modum atque finem hec est compositio consequuta.’
= **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**. Andreas of Trebizond’s preface to Sixtus IV (i.e., not ‘praefatio auctoris’ as on f. 1r), 1r–3r; I, 3v–20r; II, 20r–42v; III, 42v–56v; IV, 57r–72v; V, 72v–92r; VI, 92r–111r; VII, 111r–125v; VIII, 126r–138v; IX, 139r–156v; X, 157r–168v; XI, 168v–184r; XII, 184v–198r; XIII, 198r–216r. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 2056

s. XIII (13th–14th or 14th c. according to Heiberg, Haskins, Nogara and Manfredi, but this dating is contradicted by the added notes referring to the planetary positions for the years 1258 and 1290 (see below), as well as by the consistent use of Roman numerals in the copy of the *Almagest*; ‘pourrait être des débuts du XIII^e, sinon de la seconde moitié du XII^e siècle’ acc. Lemay, 464; ‘sec. XIII metà’ acc. De Robertis; first half of the 13th c. acc. Stefan Georges, private communication). **Or.:** Italy (central Italy acc. Manfredi). **Prov.:** Coluccio Salutati (1331–1406), cf. f. 88v: ‘Liber Colucii’ and f. 94v: ‘Liber Colucii Pyeri de Salutatis’; Niccolò Niccoli (1364–1437); Pope Nicholas V (1447–1455).

Parchment, I + 94 + II^a f., a single neat hand (f. 1–94), with additions by at least two later hands (f. Ir and f. I^av–II^av).

Ptolemaica (single text), except for added astronomical notes and diagrams, including ‘Saturnus quoque moratur in unoquoque signo mense (!) XXX mensibus et complet zodiacum suum in XXX annis et ingressus est Piscem mense Octubris anno domini M^oCCLVIII. Iupiter...’ (Ir) and ‘In anno Christi 1290 adde super loca stellarum fixarum... 16 gradus...’ (II^av). Blank: I^ar.

Bibl. *ILLM*, III, 293; C. H. Haskins, D. P. Lockwood, ‘The Sicilian Translators of the Twelfth Century and the First Latin Version of Ptolemy’s *Almagest*’, *Harvard Studies in Classical Philology* 21 (1910), 75–102: 78–79; J. L. Heiberg, ‘Noch einmal die mittelalterliche Ptolemaios-Übersetzung’, *Hermes* 46 (1911), 207–16: 207–08; Nogara 1912, 433–34; Haskins 1927, 157–58; R. Lemay, ‘De la scolastique à l’histoire par le truchement de la philologie: Itinéraire d’un médiéviste entre Europe et Islam’, in Scarcia Amoretti 1987, 399–535: 464–68; A. Manfredi, *I codici Latini di Niccolò V. Edizione degli inventari e identificazione dei manoscritti*, Vaticano, 1994, 389 (no. 619); T. De Robertis, ‘Il Tolomeo di Salutati restaurato da Niccoli’, in *Coluccio Salutati e l’invenzione dell’Umanesimo*, eds T. De Robertis, G. Tantarli, S. Zamponi, Firenze, 2008, 272–74.

1r–94v ‘Tholomei [upper margin]. Iam pingendi Gratias antiqui feruntur habuisse consuetudinem, ut unam quidem vultum aversam, due quibus illa manum porrigeret aspectarent. Cuius misterii non ignarus dudum... (1v) Proemium. De ordine theorematum. Quoniam sperice celum fertur... (chapter index). Proemium auctoris. Valde bene qui proprie philosophati sunt, o Sire, videntur michi sequestrasse theoreticum philosophie a practico — et que ad commoditatem solam contemplationis sed non ad ostentationem commemoratio suggerebat, proprium utique nobis hic et commensurabilem recipiat finem presens negotium.’

= **Ptolemy, *Almagesti*, tr. Sicily c. 1150 (A.1.1)**. Translator’s preface, 1r–1v; I, 1v–9r; II, 9r–26r; III, 26r–33r; IV, 33r–41r; V, 41r–47v; VI, 47v–55v; VII, 55v–61v; VIII, 61v–66v; IX, 66v–72v; X, 72v–76v; XI, 76v–83v; XII, 83v–88v; XIII, 88v–94v. A few glosses by a later hand.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 2057

s. XII^{ex}–XIIIⁱⁿ (with intervention of later hands, see below). **Or.:** Italy. **Prov.:** the MS was in northern Italy in the 13th and 14th c. F. 197v contains a letter, in an early 13th-c. hand, addressed by a student to his master ‘V. M.’ of Sandrigo (Veneto), saying that he is sending him the present MS (among others) from Trento at the request of V. M.’s brother: ‘Discreto et venerabili magistro V. M. de Sendrico, eius fidelis scholaris salutem. Per presentes litteras vobis notum facere cupio me istum librum et unum alterum physice et unum alterum volumen XII quaternionum penes Tridentum [Trento] nuper a fratre vestro recepisce. Quos vobis dare a fratre vestro iussus fui, et eos vobis mitto sigillatos meo sigillo per Calopum. Insuper mitto vobis quod receptionem librorum et statum vestrum litteris manus vestre scriptis usque in diem Martis proximam mittere non postponatis’ (ed. Georges, who corrected the text edited by Nogara, 435). Later in the 13th c., the MS was probably in Bologna, where it served as a model for MS $\rightarrow$ Vatican, BAV, Barb. lat. 173, then, by the middle of the 14th c., probably in Florence, where it served as a direct or indirect model for MS $\rightarrow$ Florence, BNC, Conv. Soppr. J.IV.20 (Georges). At some point in the 14th c., the MS also belonged to one master Andreas Johannes of Fermo, cf. f. 197v: ‘Iste liber Almagesti est magistri Andree Iohannis dicti (?) de Firmo...’ (Georges). The MS was at the Vatican Library by c. 1550.

Parchment, 198 f., a single hand, except for f. 107–114, copied by two Italian scribes sometime between the second half of the 13th c. and the first half of the 14th c. (this section corresponds to a quire that had been lost at an early date), and for additions by several hands on f. 1r–2v, 3r, 197v and 198r.

Ptolemaica (single text), except for added sections: a horoscope of nativity with notes for a certain B. born on 16 August 1295 (3r) and various notes by several hands, including owners’ notes (197v) and ‘Gebrus qui corrigit Ptholom<eum>’ (198r). Blank: 3v–4r, 196v–198v (except for added notes f. 197v and 198r, as indicated above).

Bibl. *ILLM*, III, 293; Nogara 1912, 434–35; Kunitzsch 1986–1991, II, 17; Georges (forthcoming).

1r–196r ‘Liber hic precepto Maimonis regis Arabum, qui regnavit in Baldach... (2rb) Nota quod istud est primum capitulum Almagesti sub alia translatione [note added by the scribe in the margin]. (4v) Incipit liber Almagesti [title in upper margin, hand of the scribe]. <Q>uidam princeps nomine Albugaife in libro suo quem scientiarum electionem verborum nominavit... (5r) Capitulum primum in quo huius scientie excellentiam et finem eius utilitatis dicam. onum domine fuit quod sapientibus non deviantibus visum est — (195v) et honestum est ut ponamus hic finem libri. Expleta est dictio tertiadecima libri Ptolomei et cum ea completur liber Almagesti de disciplinalibus. Deo gratias. Capitulum primum in prologo huius libri. onum quod fecerunt in eo quod video illi qui perscrutati sunt — neque consecuti sunt ex eius comprehensione quod oportet.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 4v–5r; I, 5r–17v; II, 17v–38v; III, 38v–50v; IV, 50v–65v; V, 66r–83v; VI, 83v–102v; VII, 103r–113v; VIII, 114r–123v; IX, 123v–142r; X, 142r–152v;

XI, 152v–168r; XII, 168r–181v; XIII, 181v–195v; ch. I.1 in Iṣḥāq's version, 195v–196r. The text is preceded, in a hand from the second half of the 13th c., by the end of the preface and a chapter index of all 13 books, 1r–2v. The same hand supplied the rubrics throughout. Numerous glosses by the scribe and by later hands. A selection of these glosses (shared by MSS →Cracow, BJ, 590 and →Vatican, BAV, Barb. lat. 173) have been edited by Zepeda 2013, 386–89.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 2058

s. XV^{ex}. **Or.:** MS presented to Pope Sixtus IV by Andreas of Trebizond. **Prov.:** Sixtus IV.

Parchment, 242 f., a single neat hand, deluxe MS richly illuminated on f. 1r and 5r (Sixtus IV's portrait and coat of arms), large painted initials at the beginning of each book and numerous painted initials.

Ptolemaica (single text). Blank: 242.

Bibl. *ILLM*, III, 293–94; Nogara 1912, 435–36; Norlind 1966, 22; Monfasani 1984, 64.

1r–241v 'Andree Trapenzuntii, Georgii filii, ad divum Xystum pont<ificem> max<imum> in paternis ad Ptolemaeum commentariis praefatio. Cum anno superiore Ptolemaei Almaiestum ab eruditissimo et Christianissimo viro Georgio Trapezuntio, patre meo... (5r) Georgii Trapezuntii ad libros Magne Ptolomei compositionis introductio. Capitulum primum. De divisione omnis circuli et precipue zodiaci. Quoniam libros Ptolomei de motibus celestium, quibus nescio an quicquam altius ac rationis et scientie via certius inveniri aut fingi possit, ex Greca lingua in Latinam vertimus... (16v) Expositio Magne compositionis Ptolomei a Geogio (!) Trapezunda facta incipit. Codicis huius quem exposituri gratia salvatoris sumus volumina librique XIII sunt, in quibus Ptolomeus intendit erraticarum stellarum et fixarum motus invenire — (241r) maius inter observationes temporis spatium exigit quam vita hominis sit' (followed by a diagram f. 241v).

= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.1.19).** Andreas of Trebizond's preface to Sixtus IV, 1r–4v; Introduction, 5r–16r; I, 16v–39r; II, 39r–67r; III, 67r–78v; IV, 78v–90r; V, 90v–118v; VI, 118v–143r; VII, 143v–145r; VIII, 145r–150v; IX, 150v–170v; X, 171r–183v; XI, 184r–196v; XII, 197r–212r; XIII, 212r–241v. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 2059

s. XIV. **Prov.:** Giovanni Aurispa (1376–1459), who sold the MS to Dominicus de Dominicis, bishop of Torcello, in 1458, who, in turn, sold the MS to Bishop Nicholas of Modruš [Croatia] in 1467 (cf. added notes by two different hands f. Iv: 'Ego Dominicus episcopus Torcellanus emi a domino Iohanne Aurispa hunc librum Geber anno domini 1458 die 3 Iulii. Solutio facta

fuit per Bonichum de Baronzellis, testis est magister Stefanus phisicus de Florentia' and 'Ego N. episcopus Modrussiensis emi hunc librum a prefato reverendissimo domino Torcellano olim, nunc Brixiensi, cum comento Hali super Quadripartitum Tholomei, anno domini 1467. Testis est ipse, idest R. dominus D. Brixiensis, M. Venturinus de Feltro. Folium 194 vaccum'); Nicholas of Modruš bequeathed his library to the Vatican.

Parchment, I + 194 f., a single neat hand, deluxe MS with richly decorated initial f. 1r, numerous decorated initials.

Ptolemaica (single text). Blank: Ir, 194.

Bibl. *ILLM*, III, 294; Nogara 1912, 436.

1r–193v 'Verba Gebri filii Affra Hispalensis, qui corrigit in pluribus Ptholomenas (?). Scientia species habet quarum melior post scientiam — (192v) sunt digniores ut evanescent et destruantur, et illud est propositum. Nota in figura 13 primi libri Geber quod arcus AG subtensus recto potest esse — In eadem figura potest contingere quod uterque duorum arcuum AB AG sit maior quarto circuli et uterque sit minor.'
 = **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1r–3v; I, 3v–19r; II, 19r–38v; III, 38v–47r; IV, 47r–64v; V, 64v–90v; VI, 90v–123v; VII, 123v–161v; VIII, 161v–175r; IX, 175r–192v; Appendix, 192v–193v. A few glosses by two late medieval hands on f. 4r–5r and 18r–19r, very rare marginal notes elsewhere.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 2228

s. XV² (1470 or 1471, cf. colophon). **Or.:** Ferrara, copied by one Johannes Carpensius (cf. colophon).

Paper, 121 f., a single hand, deluxe MS richly decorated on f. 1r, painted initials f. 16r, 30r, 52r, 78r, 90v.

Astronomy: Giovanni Bianchini, *Canones tabularum de eclipsibus luminarium* (1r–16r); **Ptolemaica** (16r–51v and 78r–120r); Giovanni Bianchini, *Canones tabularum de primo mobili* (52r–78r). Blank: 120v–121v.

Bibl. *ILLM*, IV, 27; L. Thorndike, 'Giovanni Bianchini in Italian Manuscripts', *Scripta Mathematica* 19 (1953), 5–17: 5–6; Kristeller 1963–1992, II, 312.

16r–51v, 'Tractatus primus de aritmetrica (!) per clarum virum Ioannem Blanchinum.
 78r–120r Liber primus incipit. Aritmetrica (!) dico quod determinatur per numeros, et noto diffinitiones numerorum — cum quibus perficitur opus nutu Dei gloriosi. Finis operis huius die quarto Decembris 1470 [the last digit is uncertain, the date seems to have been corrected, perhaps into 1471] per me Ioannem Carpensensem, Ferrarie civem, et laus Deo, Iesu optimo maximoque.'
 = **Giovanni Bianchini, *Flores Almagesti* (C.1.17)**. I, 16r–25v; II, 25v–29r; III, 29r–36r; IV, 36r–39v; V, 39v–51v; VI, 78r–92r; VII, 92r–114v; VIII, 114v–120r. A few marginal notes by the scribe.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 3096

s. XIV.

Parchment, 165 f., a single hand.

Astronomy and astrology: Hypsicles, *De ascensionibus* (1r–3r); **Ptolemaica (3r–14r and 14v–140r)**; Jordanus de Nemore, *De plana spera* (140v–143r); ‘Incipit tractatus Iordani quem transtulit Athebit. Ab eodem puncto quodlibet simul circulariter moveri... Finis tractatus Iordani’ (143r–144v); **Ptolemaica (145r–160r, 160r and 160r–160v)**; Zael, *De electionibus*, incomplete (160v–163v); table: *De electionibus secundum cursum Lune per XII signa* (164v). Blank: 164r, 165 (except for a note in Hebrew f. 165v).

Bibl. *ILLM*, IV, 273; Heiberg 1907, XII–XIII; Kristeller 1963–1992, VI, 331.

- 3r–14r ‘Cum sit possibile, Iesure, et plerumque necessarium ut in plano represententur circuli in speram corpoream incidentes — (11v) cum ipsis circulis tropicis et cum circulis meridianis singna distinguuntibus. Explicit liber anno domini M^o C^o quadragesimo tercio kal. Iunii Toletto translatus. Dixit Maslem: Et si intenderet Ptolomeus in hac questione — (12v) et illum est quod demonstrare volumus. Capitulum quod non est de libro quod edidit Abualcatim Maslem filius Ameti. Dixit Maslem filius Ameti: Iam rememoratus (?) est Ptolemeus in hoc libro — tibi quod volueris de scientia tabularum. Amen. <A>men. Deo agamus. Gracias. Summo creatori. Omnium vero. Incomutabili. Ac etiam pye sue matri.’
= **Ptolemy, *Planispharium*, tr. Hermann of Carinthia (A.6.1)**, Class II. Translator’s preface omitted; text, 3r–11v; Maslama’s Notes 5, 8 and 10, 11v–12v; Maslama’s Extra Chapter, 12v–14r. No glosses. Occasional short marginal notes apparently by another hand.
- 14v–140r ‘Scientia species habet quarum melior post scientiam — sunt digniores ut evanescent et destruantur. Completa est eius declaratio. Amen. Finis huius libri.’
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 14v–16v; I, 16v–31r; II, 31r–48v; III, 48v–54v; IV, 54v–67v; V, 67v–85v; VI, 85v–103v; VII, 103v–122r; VIII, 122r–129v; IX, 129v–140r. A few glosses by at least two hands, including that of the scribe. More substantial glosses by a later hand f. 17r and 26r.
- 145r–160r ‘Dixit Tholomeus: Iam tibi scripsi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et ex illis est... Quod dixit Ph<tolome>us, ex te et illis, significat quod qui res futuras prenoscere desiderat — et quanto melius quivimus exposuimus.’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**, in ‘Mundanorum 2’. No glosses.
- 160r ‘Ph<tolome>us: Stelle cum caudis 9, prima — in regibus et divitibus apparebunt termini Ptolomei.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

- 160r–160v ‘Dixerunt Ph<tolome>us et Hermes quod Lune locus in hora — expertus fuit multociens.’
= **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5). No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 3100

s. XII^{ex}–XIIIⁱⁿ (Georges; the MS is generally dated to the 14th c.). **Or.:** Italian hand (the same scribe is responsible for f. 1–82 of MS $\rightarrow$ Paris, BnF, lat. 7377B). **Prov.:** a note, difficult to decipher, added at the bottom of f. 1r says that the MS was bought from one master Franciscus in 1318; Pope Nicholas V (1447–1455).

Parchment, 119 f., one main hand, with intervention of other hands in various places, including f. 71 and 78.

Astronomy: **Ptolemaica** (1ra–109ra); Ibn Mu‘ādh, *De crepusculis* (109rb–110vb); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (112ra–119vb, there is no f. 111).

Bibl. ILLM, IV, 275; A. Manfredi, *I codici Latini di Niccolò V. Edizione degli inventari e identificazione dei manoscritti*, Vaticano, 1994, 388–89 (no. 618); Zepeda 2013, 223–24; Georges (forthcoming).

- 1ra–109ra ‘Quod perpendicularis cadens ex extremitate arcus super diametrum productam ex extremitate eius secunda sit sinus eius... (1vb) In capitulo secundo Almagesti, sciendum est universaliora esse preponenda — (108va) similiter capitulum istud planum est et nichil est in eo dicendum. Finite sunt notule Almagesti. Sciendum est quod in secundo libro est quidam de proportionibus — que est in capitulo quarto libri tertiidecimi.’
= **Gerard of Cremona**, *Notule Almagesti* (C.1.3). Opening, 1ra–1vb; I, 1vb–6va; II, 6va–10va; III, 10va–20vb; IV, 20vb–32rb; V, 32rb–50rb; VI, 50rb–63va; VII, 63va–66va; VIII, 66va–70va; IX, 70va–81rb; X, 81rb–89va; XI, 89va–95va; XII, 95va–100va; XIII, 100va–108va; additional notes (incomplete), 108va–109ra. A few marginal notes by the current scribe.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 3379 [Plate 19]

s. XV². **Or.:** copied by Lorenzo Bonincontri. (cf. f. 11r: ‘Centiloquium Ptholomei cum commento mei Laurentii Bonincontri Miniatisensis’, on this see also Heilen, 23–31). **Prov.:** library of the Aragonese kings of Naples.

Paper, II + 118 + I^a f., a single hand.

Astronomy and astrology: Nicolaus de Comitibus, *De triplici motu octave spere* (1r–4v); Sacrobosco, *De sphaera* with. comm. (5r–30v); ‘Corpus spericum est capacius omni corpore equalium...’ (31r–39v); ‘Alberti Magni super Spheram. Universalis mundi machina prima divisione in partis duas...’ (42r–51v); Blasius of Parma, *Demonstrationes in theorica planetarum*

(52r–61r); **Ptolemaica (62r–114r)**; notes from Alcabitius's *Introductorius*, IV.11–13 (114v–116v); two horoscopes of Bonincontri's own nativity (117v–118r). Blank: 40–41, 61v, 117r, 118v.

Bibl. *ILLM*, IV, 343; Kristeller 1963–1992, II, 319; A. Field, 'Lorenzo Buonincontri and the First Public Lectures on Manilius (Florence, ca. 1475–78)', *Rinascimento* 36 (1996), 207–25; 209 n. 5; S. Heilen, *Laurentius Bonincontrius Miniatus: De rebus naturalibus et divinis. Zwei Lebrgedichte an Lorenzo de' Medici und Ferdinand von Aragonien*, Stuttgart, 1999, 23–31.

62r–114r 'Laurentii Bonincontri Miniatus super Centiloquio Ptholomei. Astrologiam esse omnium liberalium artium, p<ueri> ornatissimi, excellentissimam nemo est qui ignoret, tum propter ipsius scientie nobilitatem... (62v) Scientia stellarum ex te et illis est, hoc est ut sis homo huic vite in quem benignitas salvatoris — quoniam in anima rationali non possunt quicquid operari, unde ergo dicitur et scriptum est. A signis celi nolite metuere. Deo igitur laus, honor et gloria per infinita saecula saeculorum. Amen. Laurentii Bonincontri Miniatus commentum super Centiloquio Ptholomei.'
= **Lorenzo Bonincontri, *Commentum super Centiloquio Ptholomei* (C.3.14)**. Corrections and additions by Bonincontri.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 4075

s. XVⁱⁿ (1411). **Or.:** copied in Lucca by Konrad Gruter of Werden, on his visit to Paolo Guinigi (1376–1432), the lord of the Republic of Lucca (cf. f. 142r: 'Scriptus est iste liber et completus in civitate Lucana anno domini 1411 per me Conradum de Entzen, alias Gruter de Werdena Colonien<sis> dyoc<esis>, tempore quo moram traxi apud magnificum dominum Paulum de Guinigiis, dicte Lucane civitatis dominum generalem'). **Prov.:** Pope Nicholas V.

Parchment, 142 f., a single neat hand.

Astrology: **Ptolemaica (1r–52v)**; Albumasar, *De magnis coniunctionibus* (53r–142r). Blank: 142v.

Bibl. *ILLM*, V, 98; A. Manfredi, *I codici Latini di Niccolò V. Edizione degli inventari e identificazione dei manoscritti*, Vaticano, 1994, 392 (no. 623).

1r–52v 'Liber quatuor tractatum Ptholomei in scientia iudiciorum astrorum. Et sunt in primo tractatu capitula viginti septem. De hiis communiter que ad totum librum pertinent... (chapter index). (1v) Capitulum primum de hiis communiter que ad totum librum pertinent. Iuxta providam philosophorum assertionem quos videlicet in prescientia futurorum astris signa prebentibus — adhibeatur intentio liquidius aperire sufficiet. Ad laudem omnipotentis Dei finitur Quadripartitus Ptholomei. Finitur liber quatuor partituum (!) sive tractatum Ptholomei.'
= **Ptolemy, *Quadripartitum*, tr. Hugo Sanctelliensis (A.2.2)**. I, 1r–18v; II, 18v–31v; III, 31v–42v; IV, 42v–52v. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 4076

s. XVI.

Paper, II + 84 f., two hands (f. 1–79r and 79v–80v) and printed text (f. 80^{bis}–84).

Astrology: **Ptolemaica (1r–79r)**; George of Trebizond, *Liber de antisciiis et cur astrologorum iudicia plerumque fallant*, beginning only (79v–80r); brief subject index, five entries (80v); printed page on antiscia, citing Gaurico (80^{bis}r); same text as f. 79v–80r, printed and complete (80^{bis}v–84v). Blank: I–II (except for title f. Iv: ‘Centiloquium Ptolemaei cum expositione Georgii Trapezuntii’), 9v.

Bibl. *ILLM*, V, 98–99; Kristeller 1963–1992, II, 325; Monfasani 1984, 67–68; Lemay 1999, I, 410.

1r–79r ‘Liber Claudii Ptholemei qui vocatur fructus ad illustrissimum Alphonsum regem Aragonum et utriusque Siciliae a Georgio Trapenzuntio ex Greco in Latinum versus. Librum Claudii Ptholemei mihi Alfonse rex inclite traductum quem vulgo Centiloquium ipse fructum appellat... (2r) Praefatio Ptolemaei. Iam pridem perutiles ad praevidendum operationes stellarum, o Syre, quas in hoc composito efficiunt mundo exposuimus... Primus aphorismus. 1. Abste et a scientia, non est enim possibile ut huius scientie professor particulares rerum ideas preveiat — (9r) Sin vero non moventur hostis indigena erit. (10r) Commentarii et expositiones Georgii Trapezuntii in aphorismis libri fructus Ptholemaei ad Alfonsum regem Aragonum et utriusque Siciliae. Libellus hic quem de Graeco traductum nomini tuo dedicavimus, illustrissime rex... (11r) Incipit expositio aphorismorum. Primus aphorismus. Abs te et a scientia. Abste, inquit, hoc est a quadam insita vi animi et ingenio et a scientia naturae stellarum precognitio fit — ut sicut raro apparent, sic inconsueta significare videantur.’
= **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**. George of Trebizond’s preface, 1r–2r; author’s preface, 2r; text, 2r–9r (9v blank); commentary, 10r–79r. A few corrections by the scribe.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 4082

s. XVⁱⁿ (1401–1402 for f. 47–222, cf. f. 60va, 97rb, 108va, 113va, 152vb and 222va). **Or.:** University of Padua, at least for f. 47–246, copied by ‘Petrus de Fita Padue’, cf. f. 60va: ‘per me Petrum de Fita, 1401’ (*corr. ex* 1400; not 1405, as stated by Thorndike); f. 97rb: ‘per me Petrum de Fita Padu (!) scriptum 1401 imperfectis’; f. 108va: ‘per me Petrum de Fita Padue 11a Novembris 1401 scriptum’; f. 113va: ‘per me P. de Fita 1401, 8 Martii’; f. 152vb: ‘et <per> me Petrum de Fita 1402 completis anno (!) Christi 17 Ianuarii in festo sancti Antonii Panormi’; f. 222v: ‘Explicit Hermes 12 Marcii 1401 Padue per me Petrum de Fita.’ **Prov.:** ‘Janus Aquinus Madio Tabernas 1553’ (f. Ir).

Paper, I + 346 f., two hands (I: f. 1–21 and 252–342; II: f. 47–246).

Optics, astronomy, astrology, natural philosophy and medicine: Johannes Peckham, *Perspectiva communis* (1r–21v); Blasius of Parma, *Demonstrationes in theorica planetarum* (47ra–60va); *Theorica planetarum* ‘Movetur Sol sub circulo signorum qui dicitur zodiacus...’ (61ra–66rb); comm. on Sacrobosco, *De sphaera* ‘Unde prima in qua Sancta Ecclesia credit Solem fuisse creatum vocatur Aries...’ (67ra–82va); Blasius of Parma, *Questiones in Meteorologica*, excerpt ‘Utrum omnes impressiones que sunt in parte superiori aeris regionis sint eiusdem speciei...’ (82vb–85va); Henry of Langenstein, *De reprobatione eccentricorum et epiciclorum* (87ra–97rb); Nicole Oresme, *De incommensurabilitate motuum celestium* (97va–108va); Nicole Oresme, *Algorismus proportionum* (109ra–113va); Pseudo-John of Seville, *Epitome totius astrologie* (121ra–140ra); Aomar, *De nativitatibus* (140rb–152vb); *Proportiones competentes in astrorum industria*, chs 11–12, 15 and 18 (153ra–153vb); Haly Abenragel, *De iudiciis astrorum*, Book VII (161ra–184ra); Peter Peregrinus of Maricourt, *De magnete* (193ra–195vb); Andalo di Negro, *Liber iudiciorum infirmitatum* (196ra–209ra); **Ptolemaica (209va–210ra)**; Guillelmus Anglicus, *De urina non visa* (210ra–212va); table (7 × 12) showing the parts of the body corresponding to the position of each planet in the 12 signs (212v); Hermes/Enoch, *Liber imaginum signorum* ‘cum additionibus magistri Arnoldi de Villa Nova’ (213ra–215ra); Albumasar, *Introductorium maius*, tr. John of Seville, VI.1 ‘Aries natura est ignea colerica, gustus eius amarus...’ (215rb–219ra); Hermes, *Liber de quindecim stellis* (219ra–222va); ‘Dixit Hermes: Sciendum quod non scripsi nec figuravi hunc librum... Expliciunt dicta Messalach super dictis Hermetis’ (222va–222vb); Antonius de Monte Ulmi, *De revolutionibus annorum mundi* ‘Postquam novisti introductorium ad astrorum iudicia...’ (223ra–246vb); astronomy and natural philosophy ‘Primum capitulum est de tabulis motuum planetarum... Completa itaque est Astronomia tota in 4 et ceteris (?)’ (252ra–264vb), followed by the Alfonsine star catalogue (265r–280v) and other astronomical tables (282r–298r) said to belong to the same work, cf. f. 298r: ‘Expliciunt tabule astronomice et per consequens Astronomia tota’; astronomical notes (299v); medicine ‘Rem mihi iocundam magis quam facilem, arduam nimis sed necessariam...’ (300ra–342vb). Blank: Iv, 22–46, 66v, 86, 114–120, 154–160, 184v–192v, 212v, 247–251, 281, 298v–299r, 343–346.

Bibl. *ILLM*, V, 100–01; L. Thorndike, ‘Notes upon Some Medieval Latin Astronomical, Astrological and Mathematical Manuscripts at the Vatican’, *Isis* 47 (1956), 391–404; 397–401; Kristeller 1963–1992, II, 325; Juste 2007, 377–78; Moulinier-Brogi 2011, 196–97.

209va–210ra ‘Tractatus de infusione spermatis secundum dominum Andelonem de Nigro de Ianua. Ester, Ptholomeus et Hermes dixerunt [*add.* scilicet verbo Centiloquii 51] quod locus seu gradus signi in quo est Luna tempore infusionis spermatis est gradus ascendens — sit alcocodeus mutatur more ut capitulo alcocodey more dicitur.’

= Andalo di Negro, *De infusione spermatis* (C.3.5). A couple of short marginal notes by the scribe (?) f. 209va.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 4085

s. XV^{ex} (after 1480–1481, date of the autograph copy of Ibn al-Ḥātīm’s *De imaginibus caelestibus* in MS Vatican, BAV, Urb. lat. 1384, cf. f. 82v–84r below). **Or.:** northern Italy (list of 43 Italian

cities opening with Milan, Pavia, Parma, Turin and Vercelli, f. 79r; the MS is closely related to MS $\rightarrow$ Paris, BnF, lat. 7337, from northern Italy).

Parchment, IV + 149 f., a single hand, except for f. I–IV.

Astrology, astral magic and astronomy: calendar (IIr–IVv); Zael, *Introductorium* (1r–8v); Zael, *De interrogationibus*, excerpts (9r–10); ‘Canones modernorum astrologorum de infirmitatibus. Qualitates morborum et accidentia infirmitatum nosse cupientibus maiora duo luminaria precipue observanda sunt...’ (11r–27v, this text bears no attribution to Andalo di Negro); **Ptolemaica** (28r–28v); Andalo di Negro, *Ratio diversitatis partus* (28v–30r); ‘De elevationibus planetarum ex sententia summe Anglicanae. Hali super capitulo octo secundi Quadrupartiti Ptolomei tres modos elevationis unius planetae super alium...’ (31r, with tables 31v–38r); ‘Hali de infirmitatibus secundum rationem astronomicam. Significator status infirmi scitur pro maiori parte rerum ab ascendente et eius domino et almutam in 5 locis yleg...’ (43r–47v); ‘Zaelis dogmata de peregrinationibus. Nota in peregrinationibus si dominus ascendentis vinctus fuerit...’ (47v–53v); ‘Rumores an veri sint. Rumores an veri sint aspice dominum ascendentis et Lunam...’ (54r–55r); ‘Ellectio (!) pro ludo secundum Hali. Quando volueris in principio ludi ut cito separetur ludus...’ (55r–55v); ‘De negotiis faciendis secundum essentiam Lune in singulis signis. Luna in unaquaque lunatione eodem modo currit...’ (56r–56v); Bethen, *De horis planetarum* (56v–57v); ‘Sol quid significat in singulis domibus nativitatibus. Sole in prima domo existente omnia opera bona incipere debes...’ (57v–58r); ‘Que agenda sunt in coniunctionibus planetarum. In coniunctione Saturni et Martis bonum est incipere bellum...’ (58v); ‘Antiquorum nonnulli dixerunt quod Iupiter diligit omnes planetas...’ (58v–59r); Alcabitius, *Introductorius*, II–V (59r–72r); tables: essential dignities for each of the 360 degrees (73r–78v); table: essential dignities for each of the 12 signs (79r); table ‘Ascendentia civitatum Italie’ (79r); Gergis, *De significatione septem planetarum in domibus*, in tables (79v–80r); star table ‘Loca planetarum (!) verificata usque ad annos domini 1500 completos’ (80v–81r); table of lunar mansions verified 1460 (81v); table: ‘Dispositiones mansionum Lunae. Mansiones Lunae verificatae ad annum domini 1466. Nomina mansionum Lunae Latina secundum magistrum Gulielmum’, with prognostics ‘Cornua Arietis: Fac iter, incipe medicinas, indue, statue exercitum...’ (82r); ‘Imagines mansionum secundum Zaelem. In prima facie Arietis ascendit forma hominis nigri...’ (82v); Ibn al-Hātim, *De imaginibus caelestibus*, chs 3–5 (82v–84v); Pseudo-Messahallah, *De compositione astrolabii*, second part on uses (85r–93v); table ‘Declinatione Solis ab equatore’ (94r); **Ptolemaica** (95r–97r); ‘Doctrina imaginum secundum modernos duodecim vultum coelestium. Signatum est super nos lumen vultus tui domine...’ (97r–101r); Thebit Bencora, *De imaginibus* (101r–103r); Antonius de Monte Ulmi, *Glosa super imagines duodecim signorum Hermetis* (103r–104r); Antonius de Monte Ulmi (?), *Experimentum naturale, verum et ineffabile ad expellendum inimicum de regno, civitate, castro, villa, domo et de omni loco ut volueris* (104r–105r); *Liber Zaelis de imaginibus*, excerpt ‘Nomina angelorum planetarum. Nomina angelorum planetarum secundum Zaelem in libro de ymaginibus sunt hec...’ (105r); ‘Nomina signorum. Arietis Bazilian, Berith...’ (105r); ‘Figure sive imagines triplicitatum signorum. Igneae. Nota quod Aries, Leo et Sagittarius sculpti in lapidibus...’ (105v); ‘Imago Scorpionis. Hali super decimo verbo Centiloquii Tolomei...’ (105v); ‘Imagines siderum extra zodiacum. Artici circuli circumferentia Caput Draconis sustinet...’ (105v–107v); ‘Lune

dispositio in electionibus. Cum fuerit Luna cum Capite vel in Cauda in uno signo est dies cavenda in omnibus operibus...' (108r–108v); 'Luna in signis. In Ariete bonum est emere equos bellicos rubri colorii...' (108v–109r); Pseudo-Aristotle, *De Luna* (109r–110r); 'De aspectibus Lunae cum planetis per singula signa. Triplicitas Lunae dextra a Saturno per signa. Aries: Bonum ad inquisitionem rerum a regibus et occursu regum...' (110r–120r); 'Sunt et alii dies in anno secundum Arabes nimis periculosi...' (120r); Zael, *De electionibus* (120v–126r); Zael, *Liber temporum*, beginning only (130r–131r); 'Tantum hic subiungam de duratione vitae unde cognoscitur secundum regulam antiquorum. Si vis cognoscere vitam alicuius, oportet aspicere quantum habet de spatio...' (131r); *Astronomia Ypocratis* (135r–139r); 'Notabilia medicandi. Notandum quod cum ceperimus curare egrotantes oportet quod Luna sit in aspectu bonorum...' (139r–140v); *experimentum* 'Status cuiusvis inimicorum ... (?). Ratica (?) magistri Bartolomei. Dividebat civitatem vel castrum vel villam vel domum...' (146r); table of contents, added by a later hand (148r–148v). Blank: I, 30v, 38v–42v, 72v, 94v, 126v–129v, 131v–134v, 141–145, 146v–147v, 149.

Bibl. *ILLM*, V, 102–04; Kristeller 1963–1992, II, 325; Weill-Parot 2002, 602–05 and 894–96.

28r–28v 'Andeolus de infusione spermatis. Hester, Ptholomeus et Hermes dixerunt locus seu gradus signi in quo est Luna tempore infusionis spermatis est gradus ascendentis — est alcocodeus mutatur mora ut capitulo alcocodei more dicitur.'

= **Andalo di Negro, *De infusione spermatis* (C.3.5)**. No glosses.

95r–97r 'Tholomeus de imaginibus. Opusculum Tholemei et est omnibus modis propriior et veracior et in propria actione constitutus super signorum facies. Secundum quod dixit Tholomeus, qui edidit hunc librum de imaginibus super facies signorum... Dixit Hermes: Huius rei primus inventor lustravi plures imagines... Dixit Aburebez Benselie: Omnes orientales operabantur per has ymagines... (97r) Cum volueris ad odium aliquod provocare, aspice Solis diem — Cumque hoc feceris pervenies ad quod volueris et impetrabis ab eo quod animus tuus desiderat. Item dixit: Non fiat astronomica ymago alicuius operis quin non imponantur nomina dierum et horarum cum caractulis planetarum secundum quod opus est sigilla, enim secundum Aristotelem dicuntur spiritus planetarum et eius effectus. Finis.'

= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, with departure from the standard version, in particular the insertion of two excerpts from Hermes's *De imaginibus et horis*: 'Dixit Hermes: Huius rei primus inventor lustravi — et quid debeatur unicuique diei et planetae ex operibus' (f. 95r6–10) and 'Cum volueris ad odium aliquod provocare — si fuerit Mars in Scorpione' (f. 97r10–20); the same version is found in Paris, BnF, lat. 7337. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 4087

s. XVⁱⁿ (at least partly copied in 1420, cf. colophon f. 38v; the mentions of 1340 on 34v and of 1359 on f. 35v refer to older material, as does the note added by the scribe in the margin of f. 17v: 'Explicit theorica planetarum incepta et completa Parisius per fratrem Nicholaum de Lippna de provincia Pannonie, id est Ungarie. Valet anno domini M^oCCCXL'). **Or.:** northern Italy, perhaps Parma (cf. f. 35v). Three colophons give the name of the scribe as a Balthasar, of the Dominican Order, cf. f. 13rb: 'Explicit algorismus metricus Deo gracias. Amen. Et hoc per me Baltasaram domini Dominici', f. 13v: 'Explicit Algorismus cum tabula per me Baltasaram' and f. 38v: 'Explicit liber quem edidit Micael Scotus... quod scriptum et asenplatum (!) per me Baltasaram quondam domini Dominici in MCCCCXX [with one 'C' erased] de mense Aprilis.'

Papier, 114 f. (original order: f. 1–37, 88–99, 38–87 and 100–114), one main hand.

Astronomy, mathematics, computus and astrology: Sacrobosco, *De sphaera* (1r–7v); Sacrobosco, *Algorismus* (8r–11v); Alexander of Villedieu, *Carmen de algorismo* (12ra–13rb), with table and note (13v); *Theorica planetarum Gerardi* (14r–17v); *Practica geometrie* 'Geometrie due sunt partes...' (18r–19r); Blasius of Parma, *Demonstrationes in theorica planetarum* (19v–24v); Messahallah, *Epistola de rebus eclipsium* (26r–27v); Zael, *Liber temporum* (27v–31r); **Ptolemaica (31r–31v)**; *Benedictum sit nomen domini...*, chs 7–10 (31v–32r); Ricardus Anglicus (?), *Algorismus minutiarum*, incomplete (32v–33r); 'Comate seu caudate stelle quas videmus non sunt vere stelle sed sunt vapores igniti in aere...' (33v–34r); star table verified 1340 (34v–35r); star table 'Stelle fise primum honoris verificate 1359 secundum archidiaconum Parmensem' (35v); 'Habento gradu ascendentis si vis minutum habere...' (36r–36v); 38r–38v, see f. 88r–99v; Pseudo-John of Seville, *Epitome totius astrologie* (38v–62r); Ibn al-Shāffār, *De opere astrolabii*, tr. John of Seville (62r–71r); table: essential dignities for each of the 12 signs (71v); calendar (72r); Hermes/Enoch, *Tractatus de quindecim stellis* (72v–74r); Hermes, *Liber de quindecim stellis* (72v–74r, as glosses to the previous text); 'Incipit doctrina facere astrolabium que docet. Dixit Iohannes: Con (!) volueris facere astrolabium, accipe auricalcum...' (74v–81r); 'Cuius nostre doctrine tripartita est materia, scilicet corpus motus et significatio. His tribus sufficienter pertractatis expleta erit nostra intentio. Corpus igitur quod est nostra materia dividitur in 9 partes, quarum quilibet vocatur spera sive celum...' (81v–85v); Michael Scot, *De noticia ordinum stellarum fixarum celi seu ymaginum* 48 (88r–99v and 38r–38v); John of Saxony, *Canones* (102r–113r); short astronomical and astrological chapters 'Utrum planeta sit ascendens vel descendens...' (113r–113v). Blank: 25, 37, 86–87, 100–101, 114 (except notes f. 114v, some of which in Hebrew).

Bibl. *ILLM*, V, 105–06; Pedersen 2002, I, 182; Juste 2007, 383; S. Ackermann, *Sternstunden am Kaiserhof. Michael Scotus und sein Buch von den Bildern und Zeichen des Himmels*, Frankfurt/Main, 2009, 530–33; Blume/Haffner 2012–2016, II.1, 221–25.

31r–31v 'Incipit sciencia projectionis radiorum. Con (!) projectioni radiorum stellarum scire volueris, scias gradus ascendentis — equate, scilicet proectio radiacionum erit.'
 = **Pseudo-Ptolemy, *Liber projectionis radiorum stellarum* (B.6).** No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 5714

s. XIII². **Or.:** northern Italy (Italian hands and scribal characteristics, e.g. ‘ç’ for ‘z’, ‘singnum’, silent ‘h’ omitted; ascension tables for Cremona f. 36r–37v).

Parchment, 117 f., MS made of five contemporary parts: I, f. 1–12 (a single hand, with additions by another hand on f. 12v); II, f. 13–92 (a single hand, with possibly a different hand for the tables); III, f. 93–104 (two hands: f. 93r–102r and 102v–104v); IV, f. 105–113 (two hands: f. 105ra–110vb and 110vb–113ra, decorated initials); V, f. 114–117 (a single hand, with additions by another hand on f. 117v). Sections are missing after f. 104 (at least one folio), 112 (one folio) and 113 (at least one folio).

Astrology and astronomy: Alcabitius, *Introductorius* (1ra–9ra), whose last chapter corresponds to Albumasar’s *Ysagoga minor*, VI.3 and VI.6: ‘Sumptum de Ysagoga Aderlardi: Primum cehen fortune et prosperitatis...’ (9ra); ‘Item, cum fuerit Luna cum Capite vel Cauda in uno signo...’ (9ra); six tables: elections from the aspects of the Moon with the other planets (9ra–9rb); Sacrobosco, *De sphaera* (9va–12rb); additions by another hand (12va–12vb): ‘Luna moratur in unoquoque signo duobus diebus...’ (12va), onomancy ‘A 1, b 2, c 3, d 4... Si vis scire signum alicuius hominis ascendens...’ (12va) and ‘Taurus secundum Misaelem est signum terreum, siccum (?) et fixum...’ (12va–12vb); canons Cb of Toledan tables ‘Incipiunt canones tabularum astronomie. Quoniam cuiuscumque actionis quantitatem temporis...’ (13ra–23va); astronomical diagram (24r); ‘Cum in quo mense anni an possit fieri eclipsis Solis vel Lune...’ (24va); Toledan tables (25r–88v), including ascension tables for Cremona (36r–37v); *Theorica planetarum Gerardi* (89ra–92ra); diagram and notes of computus, added by another hand (92rb); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (93ra–102rb); astrological and astronomical notes ‘Inter cetera lectionum providum esse mandamus ut si aliquot singnorum...’ (102v–104v); **Ptolemaica (105ra–113ra)**; *Capitula Almansoris*, chs 1–60 (113ra–113vb); ‘Cum Boetius Rome degeret Pythagoras quoque in theatre viveret...’, first lines only (113vb); **Ptolemaica (114ra–117va)**; additions by another hand: ‘No<ta> de impressionibus que fiunt in aerem est dicendum primo de his quod fiunt ex vapore calido et sicco...’ (117va–117vb) and *Liber Alchandreï*, 21.3–6 (117vb). Blank: 92v.

Bibl. *ILLM*, VI, 212.

105ra–113ra ‘... si autem infirmum et illud superat... 7. Sermo septimus. Dicit Ptol<omeus>: Non pertinet ad iudicium in astrorum efficatia — (112vb) 88. Sermo octavagesimus octavus. Dicit Ptol<omeus>: Cum quesieris scire partem felicitatis per totum... (113ra) ...sium (?) siccitatem denuntient. In eodem quoque libro retulit substantiam ventorum summum siccum esse — sed istis prohibetur legere. Pecat ergo qui eis huius dignitatis librum acommodit. Expletus liber totius sapientie largitorum.’
= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **before c. 1250 (C.3.1.5)**, v. 6–88 and final lines of the text, due to at least one missing folio at the beginning and one missing folio between f. 112 and 113. No glosses.

- 114ra–117va ‘... <dis>cordes, multis vescuntur carnibus, vitam pro nichilo ducunt, nulla formidant pericula, alterna perpetrant homicidia... (114rb) C<apitulum> IIII. Que regiones quibus signis supponatur (!). De predictarum IIII partium regionibus et etiam gentibus circa earum exteriores terminos — Co<m> (!) enim Solis et Lune conveniunt, ut eisdem in aliquo iunguntur, significationis particeps facte, turbam et quietem denuntiant enim in cardine.’
= **Ptolemy, *Quadripartitum*, Hugo Sanctelliensis (A.2.2)**, II.3–14. The text opens abruptly towards the end of ch. II.3 due to missing folia and the scribe stopped copying towards the end of ch. II.14. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 5984 [Plate 18]

s. XV^{ex} (f. 1–173 copied in 1479, cf. f. 173r; f. 177–314 in or before 1477). **Or.:** Italy, Giovanni Pontano corrected f. 1–173 and copied f. 177–375. **Prov.:** ‘Ex conventu SS. Apostolorum Urbis’ (f. Ir).

Paper, II + 375 f., two hands, I: f. 1r–173r; II (Giovanni Pontano): f. 177r–375v.

Giovanni Pontano’s works: *De bello Neapolitano* (IIr–IIv, fragment); ***Ptolemaica* (1r–173r and 177r–314v)**; *Actius dialogus de Numeris poeticis* (316r–375v). Notes: ‘Commentationes in Ptolemaeum bona manu scriptae cum emendationibus passim Pontani ipsius manu scriptis’ (Ir) and ‘Commentationes in Centiloquium Ptolemaei primum archetypum in quo postea et addita (ut fit) et immutata multa sunt’ (176r). Blank: Iv, 173v–176v (except notes), 315.

Bibl. *ILLM*, VI, 295–96; S. Monti, ‘Per la storia dell’*Actius* di G. Pontano’, *Rendiconti della Accademia di Archeologia, Lettere e Belle Arti (di Napoli)*, Nuova Serie 44 (1969), 259–92: 270–72 n. 35; Kristeller 1963–1992, II, 336; Rinaldi 2002, 111 (nos 6–7).

- 1r–173r ‘Ioannis Ioviani Pontani liber primus commentationum in centum sententiis Ptolemaei ad ill<ustrissimum> principem Federicum ducem Urbini feliciter incipit. <T>ametsi publicarum rerum administratio, bellicque gerendi cura detertere me iure possunt (*corr. ex* possent), Federice dux fortissime... (2r) Textus Ptolemaei. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronunciet... (2v) Commentum Pontani. Nec medici, nec moralis philosophi sola est cognitio, sed quaedam etiam operatio — tum stellarum radii vel trahentes eas, vel impellentes pro qualitate aspectus et virium efficacia. Τελωσ. Editi in lucem 1479 [this last sentence added in the margin].’

= **Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16)**. Corrections by Pontano.

- 177r–314v ‘VIII. Sapiens anima confert (*corr. ex* conferet) celesti operationi (*corr. ex* actioni) quemadmodum optimus Agricola arando expurgandoque confert naturae. Quamquam generi animalium est omni naturaliter insita — tum stellarum radii vel trahentes eas, vel impellentes pro qualitate aspectus et virium efficacia.’

= Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16), draft version starting with verbum 8. Numerous corrections by Pontano.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 6766

s. XIII¹ (Lemay; date confirmed by Stefan Georges, private communication). **Or.:** northern Italy. **Prov.:** added notes f. 139v mentioning the foundation of Florence in 809 and the capture of two villages of the territory of Mantua by 'Dominus Mastinus' [Mastino II della Scala, ruler of Verona] on 3 June 1351 (ed. Lemay 1995–1996, IV, 179, who wrongly read '1341').

Parchment, 139 f., one main hand, with numerous texts and chapters added in the margins and on blank pages by a contemporary hand, that also added three chapters to the *Theorica planetarum Gerardi* on f. 78ra–78va. Occasional interventions of at least two other hands.

Astrology and astronomy: *Liber novem iudicum* (1r–48ra); 'Inveni hoc ca<pitulum> in ultimo Aly de electionibus. Si quis pro urbe vel castro an sit capienda vel non...' (48ra); table of contents of the volume by the second hand (48v–49v); **Ptolemaica** (50ra–54rb); Messahallah, *Liber interpretationum* (55ra–55vb); Messahallah, *De cogitatione* (55vb–56ra); Messahallah, *De revolutionibus annorum mundi* (56ra–58vb); **Ptolemaica** (60ra–66va); Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (68ra–75rb); astronomical diagrams (75v); *Theorica planetarum Gerardi* (76ra–78ra), with three added chapters by the second hand 'Orbes deferentes et stellarum erraticarum declinant...' (78ra–78va); Albumasar, *Introductorium maius*, tr. John of Seville (79ra–107vb); 'Si vis scire si habebis mulierem quam diligis an non...' (107vb); Zael, *Liber iudiciorum* (108ra–120vb); Messahallah, *Epistola de rebus eclipsium* (121ra–121vb); chapter index of Zael's *Liber iudiciorum* (122r–122v); **Ptolemaica** (124ra–139ra); scattered notes by several hands (139v). Sections added by the second hand (in the margins and also on f. 53va–54vb, 59r–59v, 66vb–67v, 123v and 139ra–139rb, originally blank) include many short chapters derived from various *iudicia*, the *Alchandreana* and related literature. Blank: 123r.

Note The table of contents f. 48v–49v (second hand) attributes the *Liber novem iudicum* to Ptolemy (f. 49vb: 'Explicit liber novem iudicum Tolomei'), repeats the wrong identification of Pseudo-Ptolemy's *Iudicia* as Ptolemy's *Almagest* (f. 49vb: 'Liber Almagesti Minoris Tolomei' and f. 49vc: 'Explicit liber Almagesti Tolomei') and refers to the *Quadripartitum* as 'Incipit liber Artabe Tolomei' and 'Liber aplothesmator (?) Tolomei', f. 49vc). The same table of contents adds more titles after Ptolemy's *Quadripartitum*, cf. f. 49vc: 'Capitula oblata regi magno Saracenorum' [= *Capitula Almansoris*], an untitled text in eight chapters ('De infirmitatibus', 'De rumoribus', 'De servitio vel negotio faciendo' etc.), 'Liber de mundo' and 'Nota de ymaginibus que sunt in signis.'

Bibl. *Inventarium codicum Latinorum Bibliothecae Vaticanae*, VIII (handwritten catalogue by A. Ceccucci, dated 1882), 194–95; Lemay 1995–1996, IV, 168–80; Lemay 1999, I, 276–78; Juste 2007, 384–86.

50ra–54rb 'Almagestus Ptolomei. Incipit Ptolomeus Minor in arte stellifica. Signorum alia sunt masculini generis, alia feminini. Masculini ut Aries, Gemini, Leo,

Libra, Sagittarius, Aquarius. Femini Taurus, Cancer... (53rb) De ymaginibus. Prima die mensis Septembris — (53va) et ceteris minora. Explicit Almagestum Ptholomei. [Second hand] Luna existente in Ariete (*corr. ex* in Cancro) non mediceris caput — oculos habet rotundos.’

= **Pseudo-Ptolemy, *Iudicia* (B.3)**, with Pseudo-Ptolemy’s *De temporum mutatione* (B.12) as the closing chapter of the section copied by the first hand on f. 53rb–53va (see below). Chapters are in disorder and, presumably, the chapters added by the second hand at the end (53va–54rb) correspond to chapters that had been omitted by the first hand. A few marginal notes by the second hand.

53rb–53va ‘De ymaginibus. Prima die mensis Septembris apparet ymago ...is (?) custos plaustris — et est finis cionis Saturni et Martis omnia signa mutationis validiora et ceteris minora. Explicit Almagestum Ptholomei.’

= **Pseudo-Ptolemy, *De temporum mutatione* (B.12)**, as part of the previous text. A few marginal notes by the second hand.

60ra ‘<D>ixerunt Ptolomeus et Hermes quod locus Lune — fuit expertus multotiens.’

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). No glosses.

60ra–60rb ‘De comatibus (!). Ptolomeus dicit quod stelle cum caudis sunt 9 — et mortalitatem regum et divitum..., cum Saturno mortalitatis gravior, cum Marte vero guerre erunt quamplures et per gladium mortalitates.’

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). No glosses.

60ra–66va ‘Centiloquium Ptolomei cum expositione Aly translatum a Platone Tib<ur>tino de Arabico in Latinum. <D>ixerunt Ptolomeus et Hermes quod locus Lune — fuit expertus multotiens. De comatibus (!). Ptolomeus dicit quod stelle cum caudis sunt 9 — (60rb) et mortalitatem regum et divitum..., cum Saturno mortalitatis gravior, cum Marte vero guerre erunt quamplures et per gladium mortalitates. Dixit Ptolomeus: Iam scripsi tibi, Yesure, libros de hoc quod operantur stelle in hoc seculo... Verbum I. Scientia stellarum ex te et illis est, astrologus non debet dicere rem specialiter sed universaliter... <Q>uod dixit Ptolomeus, ex te et illis est, significat quod qui res futuras prenoscere desiderat — si traderetur illi et ego Deum precor ut te diligit. Explicit Centiloquium Ptolomei cum expositione (?) Aly [explicit apparently added by another hand].’

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**, opening with Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 60ra (see above) and *De cometis* (B.4) on f. 60ra–60rb (see above). The second hand added, in the margin off. 60rb–61rb, v. 1–15 in both the ‘Mundanorum’ version (C.3.1.3) and Adelard of Bath’s translation (B.1.1): ‘Alia translatio: Mondanorum (!) mo...o (?) ad hoc et ad illud corporum celestium... Alia translatio: Doctrina

stellarum exterius (?) est, neque est doctrina mei ut proferat formam actus...'.
A few marginal notes by the scribe thereafter.

- 124ra–139ra 'Liber quadripartiti Tolomei [title in upper margin by another hand]. Incipit quadripartitus Ptolomei Alfiludi qui arabice Alorbt (!), grece dicitur Tetrascis. Capitulum I in collectione scientie... <R>erum, Yesure, in quibus est pronosticabilis sciencie stellarum profectio magnas et precipuas duas esse deprehendimus — hoc in loco huic libro finem i<m>ponere non incongruum extimamus.'
= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 124ra–127va; II, 127va–131ra; III, 131ra–135vb; IV, 135vb–139ra. A few short marginal notes by the scribe and at least two other hands, mainly the subject matters by the second hand.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 6788

s. XIII^l. **Or.:** probably Bologna, but copied by non-Italian scribes (Georges). **Prov.:** the hand that added the chapter index f. 178r–178v is southern French or Spanish (Georges); glosses by Laurentius de Messasal, monk at Santa Maria of Poblet (Catalonia), then bishop of Agrigento (Sicily) from 1422 to 1442 (cf. f. 7r: '... ego Laurentius episcopus Agrigentius anno... 1424' and f. 8v: 'Hoc notavi ego frater Laurentius monachus Populeti et nunc episcopus Agrigentinus... anno M^oCCCC^oXX^oIII'; see also f. 7v, 8r and 9r, with the dates 1425, 1435 and 1436). Laurentius de Messasal also copied MS → Palermo, CSF, 4.

Parchment, 178 f., two hands, one of which copied the text and the other the titles and tables, painted initial f. 1r.

Ptolemaica (single text), except for a full chapter index of the *Almagest* copied by a later hand c. 1300 (178ra–178vb).

Bibl. *Inventarium codicum Latinorum Bibliothecae Vaticanae*, VIII (handwritten catalogue by A. Ceccucci, dated 1882); Georges (forthcoming).

- 1r–178r 'In nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (1v) Bonum quod fecerunt in eo quod video in eo illi qui perscrutati sunt... (2v) Ecce ubi primi capituli prime dictinctionis initium dedit. Bonum domine fuit quod sapientibus non deviantibus visum est — et honestum est ut ponamus hoc finem libro. Expleta est dictio 13 libri Almagesti et cum ea completur liber Ptolomei de disciplinalibus.'
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface, 1r–1v; I, 1v–14r; II, 14r–34v; III, 34v–46v; IV, 46v–60r; V, 60r–77v; VI, 77v–92r; VII, 92r–103r; VIII, 103r–113v; IX, 113v–130r; X, 130r–139r; XI, 139r–153r; XII, 153r–164r; XIII, 164r–178r. Chapter I.1 is given in two versions: Ishāq's version, 1v–2v, and the standard al-Ḥajjāj's version, 2v–3r. Corrections by the scribe throughout and substantial glosses by Laurentius de Messasal on f. 7r–9r, 11v–12v and 13v–17r. A selection of these glosses (f. 11v–12v) have been edited by Zepeda 2013, 373–76.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 6795

s. XIII¹ (between 1220 and 1240, acc. Georges). **Or.:** Bologna, the same scribe copied MS $\rightarrow$ Vatican, BAV, Reg. lat. 1285.

Parchment, 97 f., a single hand.

Ptolemaica (single text).

Bibl. *Inventarium codicum Latinorum Bibliothecae Vaticanae*, VIII (handwritten catalogue by A. Ceccucci, dated 1882), 238; Zepeda 2013, 222–23; Georges (forthcoming).

1ra–97vb ‘Quod perpendicularis cadens ex extremitate arcus super diametrum productam ex extremitate eius secunda sit sinus eius... (2ra) In capitulo secundo Almagesti, sciendum est universaliora esse preponenda... (96va) similiter capitulum istud planum est et nichil est in eo dicendum. Finite sunt notule Almagesti. Sciendum est quod in secundo libro est quidam de proportionibus — quinque graduum Piscium et medii et fecerunt sicut dictum est in notulis in libro.’
= **Gerard of Cremona, *Notule Almagesti* (C.1.3)**. Opening, 1ra–2ra; I, 2ra–9va; II, 9va–15ra; III, 15ra–24va; IV, 24va–34vb; V, 34vb–50vb (end missing); VII, 51ra–53rb (beginning missing); VIII, 53rb–57ra; IX, 57ra–67va; X, 67va–75rb; XI, 75rb–79rb; XII, 79rb–86rb; XIII, 86rb–96va; additional notes, 96va–97vb. The section ranging from the end of Book V to the beginning of Book VII is missing due to the loss of two quires between f. 50 and 51. A few marginal notes by the scribe and by another hand.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 7616

s. XIII². **Or.:** Bologna.

Parchment, 81 f. (printed foliation in lower right corner), a single neat hand (except for f. 81r), illuminated initials f. 1r, 45v and 63r, numerous decorated initials.

Astrology: **Ptolemaica** (1ra–44vb, 44vb–45ra and 45va–61rb); Aomar, *De nativitatibus* (63ra–79va); table with instructions ‘Per hanc tabulam scitur quot dies et hore proveniant pro unoquoque gradu et minuto de signo profectionis...’ (79v); ‘Cum fuerit significator in gradu medii celi dirigetur per ascensiones circuli directi...’ (80ra–80vb); two added horoscopes, the first one for 12 July 1402 (according to the planetary positions) and the second empty (81r). Blank: 61v–62v, 81v.

Bibl. *Inventarium codicum Latinorum Bibliothecae Vaticanae*, X (handwritten catalogue by J. B. de Rossi, dated 1876–1878), 137r.

1ra–44vb ‘Incipit liber 4 tractatum Pthol<ome>i Alfilludhi in scientia iudiciorum astrorum. Et in primo tractatu sunt 24 capitula. Capitulum primum in collectione intellectus scientie iudiciorum astrorum. Rerum, Yesure, in quibus est prognostigabilis scientie stellarum profectio magnas et pricipuas

duas — hoc in loco huic libro finem i<m>ponere non incongruunt existimamus. Explicit liber quatuor Batlomei in radicandi discretione per stellas de futuris et in hoc mento constitutionis et destructionis contingentibus.’

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 1ra–11rb; II, 11rb–21rb; III, 21rb–36ra; IV, 36ra–44vb. Substantial glosses by the scribe, some of which open ‘Sensus huius littere est...’, ‘In alio...’ or ‘Dicit Aly...’. A few glosses by a later medieval hand.

44vb–45ra ‘Capitulum proiectionis radiorum. Cum proiectione radiorum stellarum scire volueris, scias gradus ascendentis — erit locus radiationis equate.’

= **Pseudo-Ptolemy, *Liber proiectionis radiorum stellarum* (B.6)**. Glosses by the scribe.

45va–45vb ‘Dixerunt Ptol<omeu>s et Hermes quod locus Lune — et hoc expertus fuit multociens.’

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). Glosses by the scribe.

45vb–46rb ‘Nota de speciebus cometarum. Ptolomeus dixit quod stelle cum caudis sunt novem — in regibus et divitibus apparebit.’

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). Short glosses by the scribe; a longer gloss by a later hand f. 45vb.

45va–61rb ‘Incipit Centiloquium. Dixerunt Ptol<omeu>s et Hermes quod locus Lune — (45vb) et hoc expertus fuit multociens. Nota de speciebus cometarum. Ptolomeus dixit quod stelle cum caudis sunt novem — (46rb) in regibus et divitibus apparebit. Dixit Ptol<omeu>s: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Scientia stellarum ex te et illis est... Quod dixit Ptol<omeu>s, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — et ego Deum precor ut te diligat. Et perfecta est huius libri translatio 17 die mensis Martii, 12 die mensis Gumedi secundi anno Arabum 530, etc.’

= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**, opening with Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 45va–45vb (see above) and *De cometis* (B.4) on f. 45vb–46rb (see above). Substantial glosses by the scribe (some of which introduced by ‘Sensus est...’ or ‘Sensus huius littere...’) and by other hands.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 11253

s. XV. **Prov.:** bought by the Vatican in 1916 (inner front cover).

Paper, 109 f. Composite MS made of six parts, of which the third (f. 55–81) was copied by two hands (I: f. 55–61 and 74–81; II: f. 62–73).

Natural philosophy (f. 55–81): Pseudo-Aristotle, *Secretum secretorum*, excerpt on physiognomy ‘Incipit physonomia Aristotelis. Discipuli siquidem Ypaciatis sapientis proiuxerunt formam eius...’ (55r–61v); **Ptolemaica** (62r–73v); ‘Incipit virtutes herbarum. Absinteon decoctum cum sanguine caprino et de mane potatum...’ (74r–81v). The other parts contain mainly classical and humanistic texts (Dares Phrygius, Vergerius, Plutarch, Poliziano etc.).

Bibl. R. De Maio, *Inventarium codicum Vaticanorum Latinorum 11151–11265* (typed catalogue dated 1969), 57; Kristeller 1963–1992, VI, 348–49.

62r–73v ‘Nota inveniend ... (?) [rest of title illegible]. Primo nativitates cuiuslibet hominis. Ad inveniendum signum nativitatis cuiuslibet hominis accipe nomen eius et nomen sue matris... Inferiora corpora reguntur a superioribus, ut patet per astrologos et sapientes... (63r) De Ariete. Natus sub Ariete, a medio Marcii usque ad medium Aprilis, erit magne industrie, nec dives nec multum pauper — fideliter vivent tam vir quam mulier. Hec vobis dicta tamquam pro nunc sufficiant etc. Explicit.’
= **Pseudo-Ptolemy, *Liber de nativitatibus hominum* (B.11)**. No glosses.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 11573

s. XV². **Prov.:** Adoardo Gualandi, bishop of Cesena (1557–1588), who died in Rome in 1597 (cf. f. 1r: ‘Adouardi Gualandi Pisani’); Johannes Baptista Coccini (d. 1641), who gave the MS to the Collegio Romano in Rome.

Paper, 156 f., a single hand, reserved initials.

Ptolemaica (single text). Blank: 156.

Bibl. J. Ruysschaert, *Codices Vaticani Latini. Codices 11414–11709*, Vaticano, 1959, 323–24.

1r–155v ‘<A>dmiranti michi sepenumero vel potius graviter inique serenti tam ratione (corr. in “raros” in the margin) esse etate nostra optimarum... (2v) Prefatio. <R>ecte profecto meo iudicio nobiliores philosophi, o Sire, distinxerunt inter theoricam philosophie et practicam partem — (155r) quod postremo hoc in theoreumate explorare et cepto labori modum statuerit decrevimus. Amen. (155v) Finis Epithomatis Ioannis de Monte Regio in Almagestum Ptholomei.’
= **Johannes Regiomontanus, *Epitome Almagesti* (C.1.21)**. Preface, 1r–2v; I, 2v–15r; II, 15r–27r; III, 27r–41r; IV, 41r–50v; V, 50v–67r; VI, 67r–81v; VII, 81v–87v; VIII, 88r–96r; IX, 96v–109v; X, 109v–121v; XI, 121v–132v; XII, 132v–140r; XIII, 140v–155v. Corrections by the scribe and substantial glosses by at least three contemporary or somewhat later hands.

Vatican, Biblioteca Apostolica Vaticana, Vat. lat. 11817

s. XVI^{ex} (c. 1590). **Or.:** northern Italy, perhaps Ravenna.

Paper, 122 f. (new foliation), a single hand.

Ptolemaica (single text). Blank: 1–2, 61, 76v, 97v, 114–122.

Bibl. *Codices manu scripti Vaticani Latini 11710–12344 ex Archivo in Bybliothecam Vaticanam translati anno 1920 aliique qui in dies accesserunt* (handwritten catalogue), 98; Kristeller 1963–1992, VI, 325.

3r–113v ‘De astrologia liber primus, qui introductorius dicit. De naturis planetarum iuxta primas (?) qualitates. Cap<itulum> primum. De naturis planetarum ...s (?) secundum ordinem naturae, non dignitatis, sequi volo — ut etiam superius declaratum est in secunda divisione. ... (?) ad laudem Dei impositus sit finis huic paraphrasi.’
= *Paraphrases in Quadripartitum Ptolomei* (C.2.36). No glosses.

Venice, Biblioteca Nazionale Marciana, Fondo antico gr. Z. 526 (776)

s. XV² (c. 1463?). **Or.:** partly copied by Regiomontanus (f. 168r–175v and 216r–225v) and Cardinal Bessarion (f. 176r–195v and 208r–210v). **Prov.:** Bessarion (ex-libris in Greek f. Iv).

Paper, I + 225 f., several hands.

Miscellanea in Greek and Latin, including (f. 168–225) **Ptolemaica** (168r–175r); Greek notes and calculations about *Almagest* I–III, copied by Bessarion (176r–195v); ‘Numeratio est variae significationis figurarum propter diversos situs...’ (196r–199r); **Ptolemaica** (208r–210v and 216r–225v). Blank: 175v, 199v–207v, 211r–215v.

Bibl. A. M. Zanetti, *Graeca D. Marci Bibliotheca codicum manu scriptorium per titulos digesta*, Venezia, 1740, 284–85; Rigo 1991, 93–95; Kristeller 1963–1992, VI, 252; O. Mazzon, ‘Bessarione lettore di Erodoto, Tucidite, Senofonte: appunti sul ms. Venezia, BNM, gr. Z. 526 (coll. 776)’, in *I libri di Bessarione. Studi sui manoscritti del Cardinale a Venezia e in Europa*, eds A. Rigo, N. Zorzi, Turnhout, 2021, 307–26.

168r–175r, ‘Vulgatum est apud geometricas quantitatem anguli plani et rectilinei
208r–225v dependere...’
= **Johannes Regiomontanus**, *Annotationes et calculationes in Almagesti* (C.1.22). No glosses.

Venice, Biblioteca Nazionale Marciana, Fondo antico lat. Z. 328 (1760)

s. XV². **Or.:** MS prepared for Cardinal Bessarion probably under Regiomontanus’s supervision. **Prov.:** Cardinal Bessarion (cf. inner front cover, f. Iv and title added in his hand f. 1r); Hieronymus Venerius in 1722 (ex-libris f. Iv).

Parchment, I + 157 f., a single neat hand, painted initials f. 1r and 2v, decorated initials.

Astronomy: table of contents, Regiomontanus’s hand (Iv); **Ptolemaica** (1r–117v); Menelaus, *Spherica* (120r–157r); ‘Extra. Omnis trianguli arcubus circulorum magnorum in superfite sphaerae...’ (157r–157v). Blank: 118r–119v.

Bibl. Valentinelli 1871–1872, IV, 249–51 (XI.63); Björnbo 1902, 143; Zinner 1964, 28; Kristeller 1963–1992, II, 213; Zinner 1990, 213 (no. 51); Rigo 1991, 80; J. Monfasani, *‘Bessarion Scholasticus’: A Study of Cardinal Bessarion’s Latin Library*, Turnhout, 2011, 133–34.

1r–117v ‘Magistri Ioannis de Kunigsperg prohemium in epitomam Almagesti sive Magne constructionis Ptolemaei, factam partim per eum, partim per magistrum Georgium de Peurbach et dedicatam reverendissimo domino cardinali Nicaeno [title added by Bessarion in upper margin]. Admiranti michi saepenumero vel potius graviter et inique serenti tam raros esse etate nostra optimarum... (2v) Epitoma primi libri Ptolemaei. Recte profecto meo iudicio nobiliores philosophi, o Syre, distinxerunt inter theoricam philosophie et practicam partem — quod postremo hoc in theoreumate explorare et coepto labori modum statuere decrevimus. Finis terciidecimi.’
= **Johannes Regiomontanus**, *Epitome Almagesti* (C.1.21). Preface, 1r–2r; I, 2v–12r; II, 12r–20v; III, 21r–31r; IV, 31v–38v; V, 39r–50r; VI, 50v–61r; VII, 61v–66r; VIII, 66v–72v; IX, 73r–82v; X, 83r–91v; XI, 92r–100r; XII, 100v–105r; XIII, 105v–117v. No glosses.

Venice, Biblioteca Nazionale Marciana, Fondo antico lat. Z. 329 (1843)

s. XV². **Or.:** MS prepared for Cardinal Bessarion probably under Regiomontanus’s supervision. **Prov.:** Bessarion (cf. inner front cover), who glossed the MS and added various items in his hand; Hieronymus Venerius in 1722 (ex-libris f. 1r).

Paper, I + 340 f., three hands: I. f. 39r–202v and 219r–283r; II. f. 203v–213r; III (Bessarion’s additions). f. Iv–1r, 11–34, 292ra–296rb and 300r–331v (f. 13r–14r and left column of f. 292r–296r are in a neater hand, either Bessarion’s neater handwriting or a fourth hand).

Astronomy: scattered astronomical notes, Greek and Latin (Iv–1r); notes of arithmetic and geometry (11r–11v); Euclid, *Elementa*, ed. Campanus of Novara, theorems only (12r–34r); **Ptolemaica** (39r–213r); Menelaus, *Spherica* (219r–282v); ‘Extra. Omnis trianguli arcubus circulorum magnorum in superfitie sphaerae...’ (282v–283r); full chapter index of Ptolemy’s *Almagest* in Latin and Greek (292r–296r); excerpts from Ptolemy’s *Almagest*, in Greek (300r–331v). Blank: 1v–10v, 34v–38v, 213v–218v, 283v–291v, 296v–299v, 332–340.

Bibl. Valentinelli 1871–1872, IV, 218 (XI.5); Björnbo 1902, 142–143; Zinner 1964, 28; Kristeller 1963–1992, II, 213; Rigo 1991, 81–90 and 95–97; J. Monfasani, *‘Bessarion Scholasticus’: A Study of Cardinal Bessarion’s Latin Library*, Turnhout, 2011, 134.

39r–213r ‘Epitoma in Almagestum Ptolomei, in primo libro [title added by Bessarion in upper margin]. Data circuli latera decagoni, exagoni — quod postremo hoc in theoreumate explorare et cepto labori modum statuere decrevimus.’
= **Johannes Regiomontanus**, *Epitome Almagesti* (C.1.21), without the preface and the first chapters of Book I. I, 39r–46v; II, 46v–57v; III, 58r–72v; IV, 73v–85r; V, 85v–106v; VI, 107v–126v; VII, 127v–135v; VIII,

136v–148r; IX, 149r–166v; X, 167v–180r; XI, 181r–192v; XII, 193v–202v; XIII, 203v–213r. Short glosses by Bessarion, mainly in Greek (more substantial f. 97v–100r, 127v–128r). A few corrections by the scribe.

Venice, Biblioteca Nazionale Marciana, Fondo antico lat. Z. 344 (1878)

s. XIII^{med} (glosses by the scribe mentioning the years 1252 and 1254 f. 9v and 12v: ‘Nota quod M.CC.LII in kalendis Martii intravit tercius annus frigdarie Mercurii’ and ‘Facta probatione per multas rationes M.CC.LIIII de stella que dicitur Cor L<eonis?> est in Leone 20 g<radu> 2 m<inuto>’; the MS is wrongly dated to the 14th c. by Valentinelli and Pedersen, and to the 15th c. by Lemay). **Or.:** Italy.

Parchment, 236 f. (with 31–50 and 115–116 missing and foliation skipping f. 102, 174 and 198), a single neat hand (except for f. 63rb–64vb), painted initials f. 1r, 79r, 103r, 117r, 155r, 175r and 199r, decorated initials.

Astrology and astronomy: Pseudo-John of Seville, *Epitome totius astrologie* (1ra–30va); Zael, *De electionibus* (51ra–58va); ‘Hoc est extractum de opere phylosophorum de Luna in signis omnibus. Luna in Ariete sive questio precedat...’ (59ra–63ra); ‘Hic est quidam defectus libri Mesaela qui est in fine 4 particule ubi est una crux et est de electionibus et incipit 5 particula Aristotelis plenior artibus. Cum aliquid vis emere partem fortune...’ (63rb–64vb, added by another hand); table: elections from the aspects of the Moon with the other planets (67v); horoscopic diagram summarising the nature of the 12 signs (68r); table: elections from the aspects of the Moon with the other planets (68v); Messahallah, *De significationibus planetarum in nativitate* (69ra–76ra); ‘Incipit opus phylosophorum ad eligendum bonum a malo in inceptione operum per cursum Lune in duodecim signis...’ (76ra–78va); ‘De aeris mutatione vel pluvia. Indicabis autem particulariter de aeris mutatione sic...’ (78va–78vb); Alcabitus, *Introductorius* (79ra–102vb); Albumasar, *Flores* (103ra–114vb); Zael, *Liber iudiciorum* (117ra–154ra, *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*); **Ptolemaica (155ra–173va)**; Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (175ra–197rb); canons of Toledan tables (199ra–218va); ‘Canones de cognitione eclipsis Solis et Lune. Nota quod quando vis coniunctionem vel preventionem...’ (218vb–221rb); ‘Ad faciendum almanac. Cum volueris facere almanath, invenias punctum Solis...’ (221rb–222va); ‘Ad emendationem tabularum. Ad emendationem tabularum dupla primam lineam...’ (222va–222vb); ‘Iste canon fac<it?> pro quadrante. Nota quod in capite 21 gradus...’ (222vb–223ra); *Canones super tabulas Humeniz philosophi summi Egiptiorum* (223ra–223va); ‘Theorica planetarum [title added by another hand]. Movetur Sol sub circulo signorum qui dicitur zodiacus...’ (224ra–228vb); *Theorica planetarum Gerardi* (229ra–233vb); ‘Si vis scire horas per pluram...’ (234ra). Blank: 65r–67r, 154v, 198v, 234v–236v (except for scattered notes f. 235v). Blank: 197v.

Bibl. Valentinelli 1871–1872, IV, 278–80 (XI.104); Kristeller 1963–1992, II, 213; Lemay 1999, I, 278–80; Pedersen 2002, I, 182–83.

155ra–155rb ‘Dixit Ptolomeus et Hermes quod locus Lune in hora — expertus fuit multotiens.’

- = **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). Glosses by the scribe.
- 155rb–155vb ‘Tolomeus dixit quod stelle cum caudis sunt novem — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). A couple of short glosses by the scribe.
- 155ra–173va ‘Centiloquium Ptolomaei [title added by another hand]. Dixit Ptolomeus et Hermes quod locus Lune in hora — (155rb) expertus fuit multotiens. Tolomeus dixit quod stelle cum caudis sunt novem — (155vb) in regibus et divitibus apparebit. Dixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in seculo hoc... Verbum primum. Scientia stellarum ex te et illis est... (156ra) Expositio. Quod dixit Ptolomeus, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — et ego Deum precor ut te diligit. Et perfecta est huius libri translatio 17 die mensis Martii, 12 die mensis Gumedi secundi anno Arabum 5302 (!).’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**, opening with Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5), 155ra–155rb (see above), and *De cometis* (B.4), 155rb–155vb (see above). Substantial glosses by the scribe, sometimes introduced by ‘Sensus huius...’ or ‘Sensus huius littere...’

Venice, Biblioteca Nazionale Marciana, lat. VI.20 (3063)

s. XIV. **Prov.:** Giovanni Marcanova, who bequeathed the MS to the monastery San Giovanni di Verdara (Padua) upon his death in 1467 (cf. f. 129r: ‘Hunc librum donavit eximius artium et medicine doctor magister Iohannes Marchanova de Venetiis congregationi canonicorum regularium Sancti Augustini, ita ut tantum sit ad usum dictorum canonicorum in monasterio Sancti Iohanni in Viridario Padue commorantium et numquam possit vendi nec alicui extra ipsum monasterium commodari. Quare omnes per eius animam devote orent. MCCCCCLXVII’).

Parchment, 130 f., several hands.

Natural philosophy, essentially Albertus Magnus’s works. The **Ptolemaic section (129r–130v)** follows Albertus Magnus, *De natura loci* (103ra–106va) and Thomas Aquinas, *Super secundum Sententiarum* (107ra–128vb).

Bibl. Valentinelli 1871–1872, V, 12–14 (XII.11); *ALC*, I.2, 1090–1091 (no. 1591); M. C. Vitali, ‘L’umanista Padovano Giovanni Marcanova (1410/1418–1467) e la sua biblioteca’, *Ateneae Veneto* 21 (1983), 127–61: 149 (no. 16); Kristeller 1963–1992, VI, 258.

- 129r–130v ‘...nibus eius et partibus sumere investigationem scientie loci declivis orbis per quem orbem signorum intelligimus — orbium quorum unumquodque alteri opponitur et unus eorum quod est ad id quod...’
= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, fragment I.2–8, incomplete on both ends due to missing folia.

Venice, Biblioteca Nazionale Marciana, lat. VIII.10 (3266)

s. XIII¹ (f. 1–188r, probably between c. 1217 and c. 1235 acc. Georges) and XIII^{med} (f. IIv and 188v–189r), with 14th-c. additions on f. Iv–IIr and 190r–190v. **Or.:** probably Oxford for f. 1–188; the glossator of f. 1–188, who also copied f. IIv (the first Ptolemaic section) and 188v–189r, seems to be of English background acc. Georges, who notes that he also glossed Geber's *Liber super Almagesti* in MS → Philadelphia, UP-KC, Ms. Codex 826. **Prov.:** the MS was glossed c. 1311 by a southern hand that signs 'Iohannes Amelii' (see below), perhaps the Johannes Amelii (or Joan Amell) attested as physician to King James II of Aragon from 1306 onwards or the Johannes de Amelio (or Jean d'Amiel) who held various ecclesiastical positions in southern France and Italy from 1317 onwards and was bishop of Spoleto from 1349 to his death c. 1370. The MS was apparently in Padua c. 1399 (Georges) and definitely in Venice in the beginning of the 16th c., for it was one of the models used by Petrus Liechtenstein for his edition of the *Almagest* in 1515.

Parchment, II + 190 f. The original core of the MS was copied by two hands (f. 1r–108r and 108r–188r) and includes decorated initials. The rest was added by the English (?) glossator of the *Almagest* (f. IIv and 188v–189r), by Johannes Amelii (f. Iv–IIr) and by another 14th-c. hand (f. 190r–190v).

Astronomy: added notes of geometry (Iv–IIr); **Ptolemaica (IIv and 1r–188r)**; added astronomical notes (188v–189r); added notes on the lunar mansions (190r); added astronomical diagrams (190v). Blank: Ir, 189v.

Bibl. Valentinelli 1871–1872, IV, 248–49 (XI.62); Kunitzsch 1986–1991, II, 20–21; Georges (forthcoming).

IIv 'Valde bene qui proprie philosophati sunt, o Sire, videntur mihi sequestrasse theoricum philosophie a practico — hec pro facultate pertractantes.'
= **Ptolemy, *Almagesti*, tr. Sicily c. 1150 (A.1.1)**, I.1. No glosses.

1r–188r 'Liber iste precepto Maimonis regis Arabum, qui regnavit in Baldach... Bonum quod fecerunt in eo quod video illi qui perscrutati sunt... (1v) Bonum, domine, fuit quod sapientibus non deviantibus visum est — (132r) et abbreviationum, tunc iam sequitur et honestum est ut ponamus hic finem libri. <Q>uidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit — (132v) considerantibus picturas, que cum a longe videntur placent, propinque vero non dulcescunt' (followed by tables, 133r–188r).

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Classes A and B mixed. Preface (end only), 1r; I, 1r–10r; II, 10r–21v; III, 21v–31r; IV, 31r–41v; V, 41v–56v; VI, 56v–69r; VII, 69r–74v; VIII, 74v–79v; IX, 79v–87v; X, 87v–96v; XI, 96v–106v; XII, 106v–118v; XIII, 118v–132r; preface (in full), 132r–132v; the tables (missing in the text) have been added at the end, 133r–188r. Chapter I.1 is given in both Iṣḥāq's and al-Ḥajjāj's versions. Substantial glosses by the scribe who copied f. IIv and 188v–189r. Glosses by Johannes Amelii, one of which reports an astronomical observation made by him in

1311 (f. 166v: 'Inveni ego Iohannes Amelii per sensibilem observationem cum Luna Cor Leonis esse in 19^o gradu et 10 minutis Leonis anno Christi 1311^o imperfecto, octava die mensis Octobris in aurora et transiverant tunc a tempore observationis Ptholomei 1172 anni Egiptii et 10 dies fere').

Venice, Biblioteca Nazionale Marciana, lat. VIII.14 (3068)

s. XIV.

Parchment, I + 85 f. (f. 23 and 65 omitted in foliation), a single hand, decorated initial f. 1ra, painted initial f. 47rb.

Astronomy: ***Ptolemaica* (1ra–47ra)**; Albategni, *De scientia astrorum* (47rb–85vb). Blank: I.

Bibl. Valentinelli 1871–1872, IV, 245–47 (XI.60).

1ra–47ra 'Incipiunt reprobationes Geber super Almagest Tholomei de Alfiladelfia in quibus noscitur abbreviatio artis. Scientia species habet quarum melior post scientiam — sunt digniores ut evanescant et destruantur, et hoc est propositum. Finis noni libri et est ultimus librorum commenti Geber super Almagesti Ptholomei. Deo gratias. Amen.'
= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1ra–1va; I, 1vb–6va; II, 6va–10vb; III, 10vb–13rb; IV, 13rb–18rb; V, 18rb–27ra; VI, 27ra–34ra; VII, 34ra–40rb; VIII, 40rb–43ra; IX, 43ra–47ra. Marginal notes by the scribe f. 2r and 4v–5r.

Venice, Biblioteca Nazionale Marciana, lat. VIII.16 (3382)

s. XV^{med} (copied in 1449–1450, cf. f. 101va and 116ra). **Or.:** Venice, copied by Andreas Bonus, doctor of medicine (cf. f. 101va). **Prov.:** Benedictus Longo in 1473 (cf. f. 116v: 'Iste liber est mei Benedicti Longo, quondam domini Laurentii 1473 anni Christi currenti'); Antonius Querengus, canon at Padua, in 1572 (cf. f. 116v).

Paper, I + 117 f., a single hand.

***Ptolemaica* (1ra–105ra and 105ra–116ra)**, except for an astrological note 'Considera tempore nativitatis locum Lune qui si fuerit in ascendente...' (117r). Table of contents of *Quadripartitum* (Iv); table of contents of *Centiloquium* (116rb–116vb). Blank: Ir (except added notes), 117v.

Bibl. Valentinelli 1871–1872, IV, 247–48 (XI.61); Lemay 1999, I, 280.

1ra–104rb 'Incipit expositio Haly Heberodoan super Quadripartitum Ptolomei. Dixit Egidius Parmensis de Tebaldis Lonbargdus de civitate Parmensi. <S>cire et intelligere gloriosum est quia omnis sapientia est a Deo... (1rb) Tractatus primus glosse Haly Hebenrodoan super prima parte libri quadripartiti Ptolomei Pheludiani. Dixit Haly: <V>erba que dixit sapiens Ptolomeus in arte iudiciorum astronomie... (2va) Incipit liber quatuor partium Ptolomei in

scientia iudiciorum astrorum. Capitulum primum. <R>es, o Misori, quibus perficiuntur pronosticationes accepte de astrologia maiores et nobiliores sunt due — (101va) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit commentum Haly super libro quatuor tractatum Ptolomei Pheludiani. Scriptum Venetiis 1449 et finitum die 8 Octobris per me Andream Bonum, phisicum, artium et medicine doctorem, verum indignum. Volo in hoc capitulo tibi dare exemplum nativitatum ut melius intendas quidquid locuti sumus in eis, prima nativitas est mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Volui probare utrum auctor iste iudicaret secundum nonam speram vel secundum octavam, et inveni per loca planetarum que ponit in hora sue nativitatis quod fuit annis Christi perfectis 986, 10 mensibus, 15 die Ianuarii, qua die equavi planetas secundum tabulas Mach<linienses> et inveni sic.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 1ra–1rb; Haly’s preface, 1rb–2va; I, 2va–27va; II, 27va–52vb; III, 52vb–83va; IV, 83vb–101va; Haly’s appendix, 101va–104rb; additional note, 104rb. Short marginal notes by the scribe.

104va ‘<D>ixit Pto<lome>us et Hermes quod locus Lune quando infunditur sperma in prima hora — aut eius oppositus.’

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5),** as part of the *Centiloquium* (see below). One short marginal note by the scribe.

104va–105ra ‘Pto<lome>us dixit quod stelle cum caudis sunt novem — se religiosi (!) ultra quantitatem eis et pietatem.’

= **Pseudo-Ptolemy, *De cometis* (B.4),** as part of the *Centiloquium* (see below). Glosses by the scribe.

104va–116ra ‘Centiloquium [title in upper margin, hand of the scribe]. <D>ixit Pto<lome>us et Hermes quod locus Lune quando infunditur sperma in prima hora — aut eius oppositus. Pto<lome>us dixit quod stelle cum caudis sunt novem — (105ra) se religiosi (!) ultra quantitatem eis et pietatem. <D>ixit Pto<lome>us: Iam scripsi tibi, Yesure, de hoc quod operantur stelle (!) in hoc seculo... <S>cientia stellarum ex te et illis est... Quod dixit, ex te et ex illis est, significat quod qui res futuras prenoscere desiderat — et ego Deum precor ut te dilligat (!), quoniam perfecta est huius libri translatio 17 die mensis Martii, 12 die mensis Gumedi secundi anno Arabum 530. Explicit liber centiloquii Tpol<omeu> (!) cum commentis Haly, 1450 die 26 Maii hora noctis prima.’

= **Abuiafar Hamet filius Joseph, *(Commentum in Centiloquium)*, tr. Plato of Tivoli (C.3.1.1),** opening with Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 104va (see above) and *De cometis* (B.4) on f. 104va–105ra (see above). A few glosses by the scribe.

Venice, Biblioteca Nazionale Marciana, lat. VIII.21 (2685)

s. XVI¹ (tables of conjunctions and oppositions for 1504–1550 f. 70ra–93v). **Or.:** Italy, probably Venice. **Prov.:** The MS was in Venice by c. 1538 at the latest, cf. f. 97v–99v.

Paper, 100 f., a single hand, except for additions by another hand f. 97v–99r. One or several folia are missing between f. 20–21 and between f. 23–24.

Miscellanea: William Durand, *Rationale divinorum officiorum*, Book VIII on computus (1ra–18vb); calendar (19r–20v); *Tractatus de arbore divini amoris*, beginning gone (21ra–23vb); astrological chapters at least partly related to Michael Scot's *Liber introductorius* '... illustratur. Figuratur super bigam propter quam denotatur velocitas sui cursus qui celerior est cursu Solis...', beginning gone (24ra–35va); *De prelatibus provinciarum mundi* (35va–41rb); *De septem aetatibus mundi* (41va–49vb); *Conclusio huius operis tranctantis de septem aetatibus mundi ab Adam usque ad tempus prescriptum* (49vb–69rb); 'Signa Thau in quo filii Ysrael...', in Italian and Latin (69va–69vb); 'Lunarium in quo reperiuntur coniunctiones et oppositiones Lunae...' 1504–1550 (70ra–93v); **Ptolemaica** (94ra–96vb); report (in Italian) dated January 1538 regarding the election of the new doge of Venice after the death of Andrea Gritti (97v–99v). Blank: 97r, 100.

Note The astrological chapters include Pseudo-Ptolemy's *De motibus et iudiciis planetarum* (B.9) on f. 27vb–28rb: 'De signis in quibus planetae morantur. Saturnus in libro de motibus planetarum Ptolomei sub Saturno sunt haec signa...'

Bibl. Valentinelli 1871–1872, IV, 273–75 (XI.101).

94ra–96vb 'Mars. Aries. Natus sub Ariete a medio Martii usque ad medium Aprilis erit magnae industriae — (Iupiter. Pisces) dies Martis, Saturni sunt mali.'
= **Pseudo-Ptolemy, *De nativitatibus hominum* (B.11)**, without the preface. No glosses.

Venice, Biblioteca Nazionale Marciana, lat. VIII.66 (3437)

s. XV^{ex}. **Or.:** Italy (autograph corrections by Giovanni Pontano). **Prov.:** Ermolao Barbaro (cf. arms f. 1r).

Paper, 78 f., a single neat hand.

Ptolemaica (single text).

Bibl. Valentinelli 1871–1872, IV, 251 (XI.64); Kristeller 1963–1992, II, 228; Rinaldi 2002, 110 (no. 4).

1r–78r 'Iohannis Ioviani Pontani liber primus commentationum in centum sententiis Ptolomei ad ill<ustrissimum> principem Federicum ducem Urbini feliciter incipit. Tametsi publicarum rerum administratio, bellique gerendi cura detertere me iure possent, Federice dux fortissime... (2r) Textus. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronunciet... Commentum. Nec medici, nec moralis philosophi sola est cognitio, sed

quaedam etiam operatio — septem simul planetarum coniunctione adiuncta. MCCCCCLXXVII.’

= **Giovanni Pontano**, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16), Book I (v. 1–50). A few marginal notes by Pontano.

Venice, Biblioteca Nazionale Marciana, lat. VIII.67 (3438)

s. XV^{ex}.

Paper, 150 f., a single neat hand.

Ptolemaica (single text). Blank: 150v.

Bibl. Valentinelli 1871–1872, IV, 251 (XI.65); Kristeller 1963–1992, II, 228; Rinaldi 2002, 111 (no. 5).

1r–150r ‘Ioannis Ioviani Pontani liber primus commentationum in centum sententiis Ptolemei ad ill<ustrem> principem Federicum ducem Urbini feliciter incipit. Tametsi publicarum rerum administratio, bellique gerendi cura deterrere me iure possent, Federice dux fortissime... (2r) Textus Ptolemei. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronunciet... Commentum Pontani. Nec medici, nec moralis philosophi sola est cognitio, sed quaedam etiam operatio — tum stellarum radii vel trahentes eas, vel impellentes pro qualitate aspectus et virium efficatia.’
= **Giovanni Pontano**, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16). A few marginal notes and corrections by the scribe.

Venice, Biblioteca Nazionale Marciana, lat. VIII.69 (3349)

s. XV² (1488 for f. 217–246). **Or.:** probably northern Italy. F. 217–246 were copied by a Nicolaus Finus de Concordea in 1488, cf. f. 245v: ‘Explicit expositio planetarum secundum Tadeum de Parma scripta per Nicolaum Finum de Concordea anno domini 1488, 24 die mensis Ianuarii.’ **Prov.:** Venice, Capuchin church (cf. added note f. 1r: ‘Loci Venetiarum Capuccinorum’ and ex-libris f. 1r).

Paper, I + 248 f., two hands (f. 1r–216v and 217r–246v).

Astrology and astronomy: table of contents, added (1r); Bartholomeus Anglicus, *De proprietatibus rerum*, excerpts from Book VIII on astrology (1r–11r); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (11r–14v); *Ptolemaica* (14v–21v); Pseudo-Thebit Bencora, *De motu octave spere* (22r–26r); Campanus of Novara, *De sphaera* (27r–64v); Campanus of Novara, *Theorica planetarum* (67r–169v); Blasius of Parma, *Demonstrationes in theorica planetarum* (175r–216v); Thaddeus of Parma, *Expositio super theorica planetarum* (217r–245v); ‘Incipit tractatus de compositione chilindri et consequenter de usu eius. In consideratione chilindri duo considerantur...’ (245v–246v). Blank: Iv, 26v, 65–66, 170–174, 247–248.

Bibl. Valentinelli 1871–1872, IV, 262–63 (XI.86); L. Thorndike, ‘Notes upon Some Medieval Astronomical, Astrological and Mathematical Manuscripts at Florence, Milan, Bologna and Venice’, *Isis* 50 (1959), 33–50: 46–48; Benjamin/Toomer 1971, 77; Kristeller 1963–1992, II, 228.

14v–21v ‘Thebit in expositione Almagesti. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni Solis erunt retrogradi. Finis libri Thebith filii Choraë.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Venice, Biblioteca Nazionale Marciana, lat. XIV.165 (4254)

s. XIV (f. 21–66). **Or.:** Italy (cf. ‘ç’ for ‘z’).

Parchment and paper, 289 f. Composite MS, of which the second part (f. 21–66 with f. 32, 34–35, 37–38, 42–43, 50–51, 59 and 64 missing, parchment, a single neat hand) includes the Ptolemaic section among astronomical texts. The first part (f. 1–20, a beautiful 14th-c. MS on parchment copied by a single hand, with painted initials) also contains scientific material (Tideus’s *De speculis*, 1ra–4rb; Apollonius’s *Liber de pyramidibus*, 4rb–11ra; and Euclid’s *De aspectibus*, 11ra–20rb), but there is no indication that the first two parts were originally related. The rest of the MS consists of letters and documents of various kinds from the 16th–17th c. in Italian and in Latin.

Astronomy (f. 21–66): Pseudo-Messahallah, *De compositione astrolabii* (21ra–39ra); *Theorica planetarum Gerardi* (39ra–46rb); Pseudo-Thebit Bencora, *De motu octave spere* (46rb–49va); **Ptolemaica (49va–53rb)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (53rb–54vb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (54vb–56va); Franco de Polonia, *Tractatus de turketo* (57ra–62ra, with f. 60–61 inverted); Peter Peregrinus of Maricourt, *De magnete* (62ra–66rb, with f. 62–63 inverted); added diagram on the seven climates (66v).

Bibl. P. Zorzanello, *Catalogo dei codici Latini delle Bibliotheca Nazionale Marciana di Venezia (non compresi nel catalogo di G. Valentinelli)* (handwritten catalogue), III, Trezzano, 1985, 202–06; Kristeller 1963–1992, II, 247.

49va–53rb ‘Incipit liber Thebith Benchorath de hiis que indigent expositione antequam legatur Almagester (!). (49vb) <E>quator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebith filii Core de hiis que indigent expositione antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. The text is truncated due to missing f. 50–51. No glosses.

Venice, Biblioteca Nazionale Marciana, lat. XIV.174 (4606)

s. XIV. **Prov.:** Apostolo Zeno (d. 1750), cf. inner front cover.

Parchment, 190 f. (sporadic foliation in pencil, which differs from the old and irregular foliation, so that, for example, new f. 9–85 correspond to old f. 10–86), a single neat hand, painted initials f. 2r and 49v and reserved initial f. 127r.

Computus, astral magic and miscellanea: table of contents by the scribe (1r); Bonus de Lucca, *Computus lunaris* (1v–16v); ‘Distinctio septem climatum secundum Arabes. Primi climatis initium est ex parte orientali...’ (17r–22v); Hermes/Toz Graecus, *De stationibus ad cultum Veneris*, beginning only (22v); Hermes/Toz Graecus/Germa Babiloniensis, *Liber Veneris* (23r–24v); Hermes/Toz Graecus/Germa Babiloniensis, *De quattuor speculis* (24v–25r); Thebit Bencora, *De imaginibus* (25r–32v); Hermes, *De imaginibus et horis* (32v–34v); Hermes/Belenus, *De imaginibus septem planetarum* (34v–37r); Hermes/Belenus, *De imaginibus diei et noctis*, excerpt (37r–37v); Hermes/Belenus, *De quattuor imaginibus magnis*, excerpt (37v); Hermes/Belenus, *De viginti quattuor horis* (37v–39r); **Ptolemaica (39r–42r)**; ‘Planete signa et elimenta (!). Saturnus, Iupiter, Mars, Sol, Venus, Mercurius, Luna, unaquaque istarum planetarum in diebus et noctibus proprias habent horas...’ (42r–49r); *Gesta Alexandri Magni* (49v–126v); Jacobus de Secolis Ordinis Predicatorum, *Liber de inventione ludi schachorum* (126v–187v); ‘Regule iuris. Beneficium ecclesiasticum non potest licite sine institutione canonica obtineri...’ (187v–190r); *Sortes apostolorum*, incomplete (190r–190v). F. 17–49 seem to form a single gathering under the title *Liber astrorum* (cf. explicit f. 49r: ‘Explicit liber astrorum ad honorem Dei altissimi’).

Bibl. P. Zorzanello, *Catalogo dei codici Latini delle Bibliotheca Nazionale Marciana di Venezia (non compresi nel catalogo di G. Valentinelli)* (handwritten catalogue), III, Trezzano, 1985, 231–33; Kristeller 1963–1992, II, 247; *Magia, alchimia, scienza dal 400 al 700. L’influsso di Ermete Trismegisto. Magic, Alchemy and Science, 15th–18th Centuries. The Influence of Hermes Trismegistus*, eds C. Gilly, C. van Heertum, Firenze, 2002, II, 78–81; Bohak/Burnett 2021, 89.

39r–42r ‘<D>ixit Habitra Benferiz quia omnes orientales operantur per has ymagines — et aspiciant rationem signum fortune. Alii vero sint cadentes ab ipso, sitque ascendentis planeta fortunatus.’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, with significant departure from the standard version. No glosses.

Venice, Biblioteca Nazionale Marciana, lat. XIV.242 (4295)

s. XV² (f. 1–12). **Or.:** Northern Italy (f. 1–12).

Paper, 68 f. Composite MS made of four parts, the first of which (f. 1–12, a single neat hand) contains the Ptolemaic section only. The other parts (f. 13–28, 29–60 and 61–68) date from the 14th and 15th c. and contain various texts, mainly in Italian, including the sentence of a tribunal of Venice in June 1396 concerning Alberto di Bartolomeo de Guidecca (13r–26v); verses of Petrarch (34r–54v); and an account book dated 1466–1467 (61r–68r).

Ptolemaica (single text) (f. 1–12).

Bibl. P. Zorzanello, *Catalogo dei codici Latini delle Bibliotheca Nazionale Marciana di Venezia (non compresi nel catalogo di G. Valentinelli)* (handwritten catalogue), III, Trezzano, 1985, 401–04; Kristeller 1963–1992, II, 269; Vuillemin-Diem/Steel 2015, 6–7.

- 1ra–12vb ‘In primo libro iudicialium Claudii Ptholomei ad Syrum insunt ista capitula. Prohemium primum. Quod pronosticatio per astronomiam et usque ad quid sit possibilis ... (chapter index). Prohemium. Capitulum primum. <H>iis qui instituunt per astronomiam pronosticum finem, o Syre, cum duo insint maxima et principalissima: unum quidem quod et primum est ordine virtute — et studio mathematici circa iudicia particu...’
 = **Ptolemy, *Quadripartitum*, tr. William of Moerbeke (A.2.6)**. I, 1ra–8ra; II, 8ra–12vb (abrupt end in II.9.20 in the middle of a word at the bottom of f. 12v; the catchwords ‘particularia observare’ show that the text was originally more complete). A few short marginal notes by the scribe and perhaps by another hand.

Venice, Museo Civico Correr, cod. Cic. 617 (1261)

s. XIV. **Prov.:** Italy by the 15th or 16th c. at the latest (see f. 37v).

Parchment, 37 f., a single hand, with additions by a later hand f. 37v.

Ptolemaica (single text), except for an added list (15th or 16th c.) of 32 cities and regions, mainly Italian, and their astrological coordinates, together with the text ‘Aries dominatur Florentie, Francie, Faventie et Bertenoro. Taurus Campanie — Explicunt ascendencia civitatum et provinciarum secundum Alfonsum’ (37v).

Bibl. A. Caracciolo Aricò, *Le schede dei manoscritti medievale e umanistici del fondo E. A. Cicogna*, I, Venezia, 2008, 127–28.

- 1r–37r ‘Expositio Abuiafar Ham et (!) filii Ioseph filii Abhe scriptoris super librum Ptholomei qui liber fructus vel arboris intitulatur. Dixit Ptholomeus: Iam scripsi tibi libros de hoc quod operantur stelle in hoc seculo... Verbum primum. Scientia stellarum ex te et illis est... Expositio. Quod dixit Pthol<omeus>, ex te et illis, significat quod qui res futuras prenoscere desiderat — et ego Deum deprecor ut te dilligat. Perfecta est huius libri translatio 17^o die mensis Marcii, 13 die mensi Inmedii (!) secundi anno Harabum 530.’
 = **Abuiafar Hamet filius Joseph, (*Commentum in Centiloquium*), tr. Plato of Tivoli (C.3.1.1)**. A few short marginal notes by the scribe and by at least two later hands.

Venice, Museo Civico Correr, cod. Cic. 3747 (2712)

s. XV^{med} (between 1429 and 1460, cf. f. 147va: ‘Et sic sit finis huius canonis per Prosdocimum de Beldemando de Padua Padue compilati atque a compositione anno domini M^oCCCC^o29 a compilatione prefati...’; and added astronomical tables for 1460 f. 109vb and 114r). **Or.:** probably northern Italy and perhaps Padua, cf. two works by Prosdocimo de Beldomandi (d. 1428) f. 135ra–147va.

Paper, 172 f., two hands (f. 1–154 and 155–172), reserved initials.

Astronomy, astrology and mathematics: *Theorica planetarum Gerardi* (1ra–4va); *Theorica planetarum* ‘Astronomie scientie doctinalis due sunt partes...’ (4vb–36rb); *Astronomia Ypocratis* (37ra–39rb); Albumasar, *Flores* (39va–48ra); Alcabitius, *Introductorius* (48va–62vb); Campanus of Novara, *Theorica planetarum* (63ra–90ra); Cristannus de Prachaticz, *Usus astrolabii* (91ra–100ra); Cristannus de Prachaticz, *Compositio astrolabii* (100rb–105va); ‘De compositione et operatione chilindri. In compositione chilindri quod vocatur horologii viatorum...’ (106ra–106vb); Johannes Simon de Zelandia, *Speculum planetarum* (107ra–109va); table of auge for 1460, added y another hand (109vb); ‘Pro equatorio paralellario. Equatorium comune omnibus planetis componere...’ (109vb–110va); Robertus Anglicus, *Quadrans vetus* (110vb–113vb); solar tables for 1460, added y another hand (114r–114v); Messahallah, *Liber receptionis* (115ra–122vb); **Ptolemaica (123ra–125ra)**; Messahallah, *Epistola de rebus eclipsium* (125rb–126vb); ‘Fiat columpna et locetur in congrua basi...’ (127ra–127rb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (127va–128va); astrology ‘Honestum quoque est huic salutem promittere...’ (128vb–130rb); Prosdocimo de Beldomandi, *Algorismus de integris* (135ra–145va); Prosdocimo de Beldomandi, *Ars calculatoria* (145vb–147va); Sacrobosco, *De sphaera* (148ra–155ra); ‘Igitur quadrantem istum componere volueris, accipe tabulam eream...’ (155rb–167rb); Franco de Polonia, *Tractatus de turketo* (167rb–168va); ‘Ad faciendum horologium mirabile...’ (168va–169vb); ‘Accipe tabulam planam super cuius extremitatem fac circulum...’ (169vb–170va); ‘Pro conpositione kilindri forma arcum...’ (170vb–172rb). Blank: 36v, 90v, 130v–134v, 172v.

Bibl. Benjamin/Toomer 1971, 94–97 (‘ms. 2721 (3747)’); A. Caracciolo Aricò, *Le schede dei manoscritti medievale e umanistici del fondo E. A. Cicogna*, Venezia, 2008, 240–43.

123ra–125ra ‘Incipit liber Thebit filii Chore de hiis que indigent expositione antequam legatur Almagesti. <E>quator est (*add.* diei) circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebit filii Chore de hiis que indigent expositione antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** No glosses.

Venice, Museo Civico Correr, Correr 1035

s. XV². **Or.:** Italy, for the scribe ‘Iohannem Collim’ (f. 299r), see MS Escorial, RBMSL, e.III.4.

Paper, I + 302 f., two hands (f. 1–146 and 147–302).

Various: table of contents (Ir); Seneca, *Tragedies* (1r–146r); **Ptolemaica (147r–302v)**. Blank: Iv, 146v.

Bibl. Kristeller 1963–1992, II, 288, and VI, 272.

147r–302v ‘Dixit Egidius de Thebaldis Lombardus de civitate Parmansi. <S>cire et intelligere gloriosum est anima gloriosa que intelligit et discernit... (147v)

Tractatus primus glose Aly Abenrudiana supra primam partem libri quadripartiti Ptholomei Pheludiani. Dixit Aly: <V>erba que dixit sapientissimus Ptholomeus in arte iudiciorum astronomie... (149v) <R>ex (!), Miçori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — (299r) posuit in hoc libro sunt res et radices quibus ars ista. Explicit. Benedictus sit Deus gloriosus et sublimis et Deus illum, scilicet Johannem Colim, dirigat qui scripsit. Volo in hoc loco tibi dare exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, et prima (299v) nativitas est in ea (!) — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Amen.'

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator's preface, 147r–147v; Haly's preface, 147v–149v; I, 149v–195v; II, 195v–231v; III, 231v–266v; IV, 266v–299r; Haly's appendix, 299r–302v. A few marginal notes by another hand. This copy appears to be of poor quality, as far as the text is concerned.

Verona, Biblioteca Capitolare, CCXLIV (215)

s. XIII² (Stefan Georges, private communication; this MS is generally dated to the 14th or 15th c.). **Or.:** Italy.

Parchment, 77 f., a single neat hand. One or several folia are perhaps missing after f. 52.

Astrology and astronomy: Messahallah, *Liber receptionis* (1ra–6va); Haly Embrani, *De electionibus horarum* (7ra–16ra); 'De latrone an sit masculus vel femina aut de embrione. Et si interrogatus fueris de latrone an sit masculus vel femina aut de embrione, tunc considera illud quod assendit (!) in facie assendentis...' (16ra); ***Ptolemaica* (16rb–27vb and 27vb–29vb)**; Zael, *Liber iudiciorum* (30ra–51va); Messahallah, *Epistola de rebus eclipsium* (51va–52vb); 'Oportet ut sit Luna in sui luminis defectore in signo masculino iuncta Marti... De capienda urbe vel castro. Si quis pro urbe vel castro an sit capida vel non...' perhaps incomplete (52vb); Albumasar, *Flores* (53ra–62va); Alcabitius, *Introductorius* (62va–77rb). Blank: 77v.

Bibl. CMFB, VIII, 179–81; S. Marchi, *I manoscritti della Biblioteca Capitolare di Verona. Catalogo descrittivo redatto da don Antonio Spagnolo*, Verona, 1996, 280–81.

16rb–16va ' <D>ixit Ptholomeus quod locus Lune in hora qua infunditur — et hoc expertus fui multociens.'

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). No glosses.

16va–16vb ' <P>tholomeus dixit quod stelle cum caudis sunt novem — in regibus et divitibus apparebit.'

= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). No glosses.

16rb–27vb 'Incipiunt centum verba Ptholomei. <D>ixit Ptholomeus quod locus Lune in hora qua infunditur — (16va) et hoc expertus fui multociens. <P>tholomeus

dixit quod stelle cum caudis sunt novem — (16vb) in regibus et divitibus apparebit. <D>ixit Ptholomeus: Iam scripsi tibi, Iniesure (?), libros de hoc quod operantur stelle in hoc seculo... I. <S>cientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Expositio. Quod dixit Ptholomeus, ex te et ex illis, significat quod qui res futuras prenoscere desiderat — maximus namque error foret si traderetur illi. Et ego Deum precor ut te dilligat. Perfecta est huius libri translatio 17 dies mensis Martii, 12 die mensis Gumedii secundi anno Arabum 53 (!).’

= **Abuiafar Hamet filius Joseph**, *Commentum in Centiloquium*, tr. **Plato of Tivoli (C.3.1.1)**, opening with Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 16rb–16va (see above) and *De cometis* (B.4) on f. 16va–16vb (see above). No glosses. A couple of marginal notes by a later hand f. 27ra.

27vb–29vb ‘<E>quator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Expletus est liber Thebit filii Chore de hiis que (pertinent *crossed out*) indigent expositione antequam legatur Almagesti.’

= **Thebit Bencora**, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Vicenza, Biblioteca Civica Bertoliana, 208 (132)

s. XV² (the Ptolemaic sections were copied in 1470, see colophon f. 256r; the whole MS appears to have been copied between 1467 and 1470, see below). **Or.:** northern Italy, copied by Bartolomeo Valdezocco of Padua (cf. f. 90v: ‘Finis per me Bartholameum de Valdezochio de Padua anno domini 1467, die 7 Februarii’, and colophon f. 256r). **Prov.:** Domenico Grimani, cardinal of Venice (f. IIIv).

Paper, III + 267 f., a single neat hand.

Astrology and astronomy: table of contents (IIv–IIIr); tables of houses, with canons, for the 5th climate (1r–7v), for Ferrara and Bologna (8r–13v), and for the 7th climate (14r–19v); table ‘Pro almutaz’ for each degree of Aries, Leo, Sagittarius, Taurus, Virgo and Capricorn (20r–20v); ‘In siemdo (!) utrum eger liberetur aut non ab illa egritudine. Si tibi facta fuerit questio per ipsum infirmum...’ (21r–33r); Guillelmus Anglicus, *De urina non visa* (33r–42r); table: zodiacal melothesy (42v); ‘Pro siemdo (!) intencionem querentis. Dixit Alkimdus (!): Quando volueris sire (!) intencionem querentis numera gradus qui sunt...’ (43r–43v); Caciaguerra de Faventia, *Aphorismi* (43v–50r); ‘Hic infra possite (!) sunt quedam regulle extravagantes et utiles in sientia (!) medicine extracte de libris sapientum. Si queratur fissicus (!) ire ad infirmum...’ (50r–52r); ‘De fortitudinibus planetarum. Fortitudines planetarum sunt hec ut sint in aspectibus (!) bonorum planetarum...’ (52v–53v); ‘De divissione (!) dierum et dominacione humorum. Dies naturalis dividitur in quatuor partes...’ (53v–54r); ‘Aries, Cancer, Libra, Capricornus sunt signa mobilia...’ (54v); ‘De planetis quando exaltantur et quando deprimuntur. Saturnus in Capricorno et in Aquario...’ (55r); tables: ‘Anni minores,

medii, maiores’, ‘Orbis luminis planetarum’ and ‘In quibus climatibus planete dominantur’ (55v–56r); ‘De ventis (!). Pars orientallis (!) continet in se istos ventos...’ (56r); ‘Incipit opusculum Gerbis in medicinis et in omnibus. Et scito quod in omnibus interrogacionibus iudicia tribus modis currunt...’ (56v–59r); incomplete horoscope (59r); Nicolaus de Paganica, *Compendium medicinalis astrologie* (61r–77v); ‘Hic est liber quem collegit magister Romanus ex dictis philosophorum, astrologorum, medicorum ad cuiusdam infirmitatem per viam astrologie et vocatur liber pronosticationis mortis et vite. Capitulum primum. Rationne (!) quidem sue compositionis (!) cum hec inferiora alterationi...’ (78r–84r); ‘Incipiunt mansiones Lune secundum sententiam famosissimi viri magistri Perdoci de Beldomandis [Prosdocimo de Beldomandi] de Padua. Nichil prestancius in humano genere apud quemlibet...’ (85r–90v); Arnold of Villanova (?), *De iudiciis particularibus pertinentibus ad medicinam* (91r–95r); Abraham Avenezra, *De luminaribus*, tr. Henry Bate of Mechelen (95r–103v); Robert Grosseteste (?), *De impressionibus aeris*, attr. Haly (103v–111r); Alkindi (?), *Saturnus in Ariete sub radiis...* (111v–115r); Messahallah, *Epistola de rebus eclipsium* (115r–120r); Messahallah, *De mercibus* (120r–126v); *Capitula Almansoris* (126v–136r); Hermes, *Centiloquium* (136v–142v); Hermes, *Liber de sex rerum principiis*, excerpt ‘De tonitruis secundum Hermetem. In quocumque signo sit tonitruum sive in die sive in nocte...’ (143r–143v); Zael, *Liber iudiciorum*, excerpts ‘Capitula Zaellis utillia in interrogacionibus. Cum coniuncta fuerit Luna alicui planete...’ (143v–148v); Bethen, *Centiloquium* (148v–154r); ‘Sol-Luna: Hec dies vallet ad agendum negocia regna ad loquendum senibus ducibus...’ (154r–157v); Gergis, *De significatione septem planetarum in domibus*, attr. Alcabitius (157v–164v); Pseudo-Alcabitius, *Tractatus de coniunctionibus planetarum* (164v–168r); Albumasar, *De revolutionibus annorum mundi* (168r–213r); **Ptolemaica (213r–256r)**; Nicolaus de Comitibus, *De triplici motu octave spere* (258r–265v); sphere of Apuleius/Pythagoras (266r); ‘Capitulum ad sciendum per artem geomancie utrum eger liberetur ab infirmitate quam habet vel non. Hec est ars consimilli sexdecim iudicum geomantice...’ (266v–267v). Blank: Ir–IIr, IIIv (except ex-libris Grimani), 59v–60v, 84v, 256v–257v.

Bibl. Mazzatinti 1892–1926, II, 26–27 (no. 132); T. Pesenti Marangon, ‘La miscellanea astrologica del prototipografo padovano Bartolomeo Valdivozco e la diffusione dei testi astrologici e medici tra i lettori padovani del ’400’, *Quaderni di Storia dell’Università di Padova* 11 (1978), 87–106; N. G. Marchioli, L. Granata et al., *I manoscritti medievali di Vicenza e provincia*, Firenze, 2007, 59–60; Moulinier-Brogi 2011, 238–40; H. D. Rutkin, *Sapientia Astrologica: Astrology, Magic and natural Knowledge, ca. 1250–1800*, I: *Medieval Structures (1250–1500): Conceptual, Institutional, Socio-Political, Theologico-Religious and Cultural*, New York, 2019, 412–15 and 418–21.

- 213r–214r ‘Dixerunt Ptholomeus et Hermes quod locus Lune in hora qua infunditur — et hoc expertus fuit multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). Glosses by the scribe.
- 214r–215r ‘Ethollomeus (!) dixit quod stelle cum caudis sunt novem — in rebus (!) et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). No glosses.

- 213r–256r ‘Incipit liber centum verborum Ptholomei. Dixerunt Ptholomeus et Hermes quod locus Lune in hora qua infunditur — (214r) et hoc expertus fuit multociens. Ethollomeus (!) dixit quod stelle cum caudis sunt novem — (215r) in rebus (!) et divitibus apparebit. Dixit Pthollomeus: Iam scripsi tibi, Iessure, libros de hoc quod operatur stelle in hoc secullo (!)... Scientia stellarum ex te et illis est... Quod dixit Pthollomeus ex te et ex illis significat quod — et maximus namque error (!) foret si traderetur illi. Et ego Deum precor ut te dilligat. Et perfecta est huius libri translacio 17 dies Marcii mensis, 12 diebus mensis Gumedii secundi anno Arabum 5302. Finis. B<artholameus> V<aldezochii> scripsit 1470, die 21 Septembris.’
 = **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. Plato of Tivoli (C.3.1.1)**, opening with Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 213r–214r (see above) and *De cometis* (B.4) on f. 214r–215r (see above). Substantial glosses by the scribe.

Vienna, Österreichische Nationalbibliothek, 24

s. XV² (copy completed on 17 March 1467, cf. colophon). **Or.:** Buda. **Prov.:** János Vitéz (d. 1472); Matthias Corvinus (1443–1490); Georg Ratzenberger (d. 1537); Vienna, Stadtbibliothek, then (in 1780) Hofbibliothek. According to Unterkircher 1957, the MS was decorated at a later date (c. 1489) for Matthias Corvinus; Roland only writes ‘Buchschmuck später?’

Parchment, 212 f., a single very neat hand, deluxe MS richly decorated f. 1r, numerous painted initials.

Ptolemaica (single text), except for the horoscope (added by another hand, perhaps Regiomontanus’s) of the foundation of the University of Pozsony for 6 June 1467 (212v).

Bibl. *TCMS*, I, 4; Unterkircher 1957, 2; C. Csapodi, K. Csapodi-Gárdonyi, *Bibliotheca Corviniana. Die Bibliothek des Königs Matthias Corvinus von Ungarn*, Budapest, 1967, 72; C. Csapodi, *The Corvinian Library. History and Stock*, Budapest, 1973, 338 (no. 558); Unterkircher 1969–1976, III.1, 17; Kristeller 1963–1992, III, 60; Monfasani 1984, 75; K. Barlai, Á. Bonronkai, ‘Astronomical Codices in the Corviniana Library’, *Memorie della Società Astronomia Italiana* 65 (1994), 533–46: 538 and Fig. 4; Roland 1999, 53; J.-P. Boudet and D. Hayton, ‘Mathias Corvin, János Vitéz et l’horoscope de fondation de l’Université de Pozsony en 1467’, in *Actes du colloque ‘Mathias Corvin, les bibliothèques princières et la genèse de l’Etat moderne’*, Budapest, 2009, 187–95: 190–91.

- 1r–212v ‘Magne Claudii Ptolomei libri a Georgio Trapezuntio traducti incipiunt capitula primi libri feliciter. Prefatio auctoris. De ordine huius doctrine... (chapter index of Book I). Sequitur capitulum primum. Prefatio auctoris. Peroptime mihi videntur, o Syre, qui bene phylosophati sunt, speculativam philosophie partem ab activa seperasse (!). Nam etsi active accidat parti — ydoneum hic modum ac finem hec est compositio consecuta. Finis 17 Marcii 1467.’

= **Ptolemy, *Almagesti*, tr. George of Trebizond (A.1.4)**. Book I, 1r–15r; II, 15r–38v; III, 38v–52r; IV, 52v–69r; V, 69r–88v; VI, 88v–107v; VII, 107v–123v; VIII, 123v–137v; IX, 137v–156v; X, 156v–166r; XI, 166r–182v; XII, 183r–196r; XIII, 196r–212v. No glosses. Occasional marginal notes by the scribe.

Vienna, Österreichische Nationalbibliothek, 44

s. XV^{ex} (1476–1490, Csapodi; 1476, Barlai/Bonronkai). **Or.:** MS prepared for Beatrice of Naples (wife of Matthias Corvinus) and/or Matthias Corvinus (1443–1490) (the illumination f. 1r includes at the bottom the mixed emblems of Matthias and Beatrice). **Prov.:** Vienna, Hofbibliothek by 1576.

Parchment, II + 138 f., a single very neat hand, deluxe MS richly decorated f. 1r (similar to MS $\rightarrow$ Vienna, ÖNB, 24), painted initials at the beginning of each book of the *Epitome Almagesti*.

Ptolemaica (single text). Note on inner front cover ‘Epitoma Ioannis Germani in novam Magne compositionis Ptolomei translationem’, possibly by the scribe. Blank: I–II, 136v–138.

Bibl. TCMS, I, 6; Unterkircher 1957, 3; C. Csapodi, K. Csapodi-Gárdonyi, *Bibliotheca Corviniana. Die Bibliothek des Königs Matthias Corvinus von Ungarn*, Budapest, 1967, 72–73; C. Csapodi, *The Corvinian Library. History and Stock*, Budapest, 1973, 344–45 (no. 572); Zinner 1990, 213 (no. 51); K. Barlai, Á. Bonronkai, ‘Astronomical Codices in the Corviniana Library’, *Memorie della Società Astronomia Italiana* 65 (1994), 533–46: 540 and Fig. 6–7.

1r–136r ‘Reverendissimo in Christo patri ac domino domino Bessarioni episcopo Tusculano, sancte Romane Ecclesie cardinali, patriarche Constantinopolitano, Ioannes Germanus se offert devotissimum. Admiranti michi se penumero vel potius graviter et inique serenti tam raros esse etate nostra optimarum... (2v) Recte profecto meo iudicio nobiliores philosophi, o Sire, distinxerunt inter theoreticam philosophiam et practicam partem — (135r) quod postremo hoc in theoreumate explorare et cepto labori modum statuere decrevimus. Amen. (135v) Ista additio pertinet supra in libro sexto ad signum tale *: tunc a puncto G cadat perpendicularis super AB que sit GD — more per superationem Lune in hora et exhibit tempus a principio.’
= **Johannes Regiomontanus, *Epitome Almagesti* (C.1.21)**. Preface, 1r–2v; I, 2v–14v; II, 14v–25v; III, 26r–38r; IV, 38r–46r; V, 46r–59v; VI, 59v–71r; VII, 71r–76v; VIII, 76v–84r; IX, 84r–95v; X, 95v–105v; XI, 106r–115v; XII, 115v–122v; XIII, 122v–136r; section from Book VI omitted on f. 66v, 135v–136r. No glosses, except for a couple of short notes by another hand f. 2r.

Vienna, Österreichische Nationalbibliothek, 2271

s. XIV^{ex}–XVⁱⁿ (c. 1400). **Or.:** Prague, MS prepared for Wenceslaus IV of Bohemia (1361–1419). **Prov.:** Matthias Corvinus (1443–1490); Philipp Eduard Fugger (1546–1618).

Parchment, 422 f. mostly unnumbered, a single very neat hand, deluxe MS magnificently illuminated.

Ptolemaica (single text).

Bibl. *TCMS*, II, 45; Unterkircher 1957, 66; J. Krása, 'Astrologické rukopisy Václava IV.', *Umění* 12 (1964), 466–86: 468 and *passim*; C. Csapodi, K. Csapodi-Gárdonyi, *Bibliotheca Corviniana. Die Bibliothek des Königs Matthias Corvinus von Ungarn*, Budapest, 1967, 77; C. Csapodi, *The Corvinian Library. History and Stock*, Budapest, 1973, 239 (no. 314); Franz 1988, 72; K. Barlai, Á. Bonronkai, 'Astronomical Codices in the Corviniana Library', *Memorie della Società Astronomia Italiana* 65 (1994), 533–46: 536 and Fig. 3; *Die illuminierten Handschriften der Österreichischen Nationalbibliothek*, 13; U. Jenni, M. Theisen, *Mitteuropäische Schulen IV (ca. 1380–1400). Hofwerkstätten König Wenzels IV. und deren Umkreis*, Wien, 2014, 89–122 (and colour reproductions, Fig. 71–95).

1ra–422va 'Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (2ra) Verba que dixit sapientissimus Ptolomeus in arte iudiciorum astronomie... (6va) Res accepte de astronomia, quibus perficiuntur pronosticationes maiores et nobiliores sunt due — (412rb) posuit in hoc libro sunt regule et radices quibus ars ista componitur utiliter consumate. (412va) Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quidquid locuti sumus in eis, in prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Amen, amen, amen. Explicit liber quatuor partium Ptholomei. Volui probare utrum iste auctor iudicaret secundum nonam speram vel secundum octavam, et inveni per loca planetarum que ponit in figura sue nativitatis quod ipsa fuit annis Christi perfectis 986 mensibus (!), quindecim die Ianuarii, qua die equavi planetas secundum tabulas Mach<linienses> et inveni sic. Deo gracias.'
= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei (C.2.2)*. Translator's preface, 1ra–2ra; Haly's preface, 2ra–6va; Books I–IV, 6va–411rb; Haly's appendix, 412va–422va; additional note, 422va. No glosses. Several pages are missing in the reproductions used and since folia are mostly unnumbered, it has not been possible to indicate the beginning and end of each book.

Vienna, Österreichische Nationalbibliothek, 2311

s. XIII^{ex} (for f. 1–95; f. 97–104 date from the early 13th c. — Stefan Georges, private communication). **Or.:** Paris (cf. f. 96v: gloss reporting on observations of the altitude of the Sun in Saint-Cloud ('apud Sanctum Clodoaltum') and Paris in 1290, 1281 and 1283; this gloss is most probably by William of Saint-Cloud, known for his astronomical observations made in Paris between 1285 and 1292). **Prov.:** University of Vienna. See also 'Da fur hilf Maria mater...' (f. 104v, medieval hand) and 'Dominus Hartliepp participabit' (inner back cover, late medieval hand).

Parchment, 104 f. Composite MS made of two parts. The first part (f. 1–96) was copied by three neat hands (f. 1–71, 72–95 and 96) with decorated initials, except reserved initial on

f. 96. The second part (f. 97–104) was copied by a single neat hand, with a reserved initial on f. 97r.

Astrology: ***Ptolemaica*** (1ra–95rb); fragment of an astrological text ‘... si dominus ascendentis applicaverit domino septime vel domino tercię aut Marti eo cadente ab angulo... Quando scire volueris de homine volente iter facere quid erit de eo in illo itinere, aspice cuiusmodi planete sunt in angulis — et implebuntur eius preces et maxime ei’ (96ra–96va); Pseudo-Aristotle, *Iudicia*, attr. Ptolemy ‘Incipit Ptolomey liber’ (97ra–104rb); short chapter ‘Si vis scire horam diei vel noctis...’ (104va). Blank: 95v.

Bibl. *TCMS*, II, 54.

1ra–95rb ‘Dixit Egideus (!) de Thebaldis Lombardus de civitate Parmamen<si>: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (1rb) Tractatus primus glose Haly Abemrudiani (!) super prima parte libri quadripartiti Ptholomei Pheludiani. Dixit Haly: Verba que dixit sapientissimus Ptholomeus in arte iudiciorum astronomie... (2rb) Capitulum primum primi tractatus libri quarti partium Ptholomei. Res, Misor, quibus perficiuntur pronosticationes acceptę de astronomia, maiores et nobiliores sunt due — (92vb) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit. Benedictus sit Deus gloriosus et sublimis et Deum illum dirigat qui scripsit. Explicit. Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis, in prima est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Volui probare utrum iste actor (!) iudicaret secundum nonam speram vel secundum octavam, et inveni per loca planetarum que ponit in figura sue nativitatis quod ipsa fuit annis Christi perfectis 986, 10 mensibus, 15 die Ianuarii, qua die equavi planetas secundum tabulas Mach<linienses> et inveni sic.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator’s preface, 1ra–1rb; Haly’s preface, 1rb–2rb; I, 2rb–26rb; II, 26rb–48va; III, 48vb–74vb; IV, 74vb–92vb; Haly’s appendix, 92vb–95rb; additional note, 95rb. A few corrections by the scribe, including a longer marginal note f. 2r: ‘Dixit Abrahyn Iudeus sapiens de Tholeto quod hec que dicit Haly est veritas quia...’. Short glosses throughout by at least three contemporary hands, one of which is perhaps identical to the one that copied the gloss on f. 96v (William of Saint-Cloud). One of these hands added in the margins of f. 30r–30v a long section missing in ch. II.3 borrowed from Plato of Tivoli’s translation. A longer gloss in a later hand (14th or 15th c.) on f. 42v is signed ‘Iohannes’.

Vienna, Österreichische Nationalbibliothek, 2378

s. XIV^{ex} (c. 1380). **Or.:** Prague. **Prov.:** ‘Liber iste est Nicolai canonici ecclesie Pragensis’ (f. 1r, 14th- or 15th-c. hand); Vienna, Stadtbibliothek (15th c.).

Parchment, 63 f., two contemporary hands (f. 1–40 and 41–63).

Astrology, natural philosophy and medicine: Michael Scot, *De noticia ordinum stellarum fixarum celi seu ymaginum* 48 (1r–15r); ‘Consequenter videndum est de formis et figuris signorum et planetarum quas influunt nascentibus...’ (15r–21r); ‘Ffac (!) medium satiris quem post per singula demis...’ (21r–21v); ‘Amplius signa que infra domum continentur sic agnosces...’ (21v–22r); Bethen, *Centiloquium* (22r–23v); Bethen, *De horis planetarum* (23v–24v); ‘Luna quando fuerit in Ariete in die 18 Iulii erit anno illo ventus orientalis...’ (24v–25r); ‘De Lune proprietatibus quando est in aliquibus signis. Quando Luna est in Cancro, Scorpionem et Pisce, bonum est bibere potionem...’ (25r); ‘Dominus primi si est in tali, id est in primo, et bonus et perfectus suum forte...’ (25r–26r); *Benedictum sit nomen domini...*, ch. 7 (26r–26v); ‘Regule ad inveniendum res absconditas vel furatas et earum complexionem vel naturam...’ (26v–27r); *Benedictum sit nomen domini...*, chs 7–12 (27r–28v); Michael Scot, *Liber introductorius*, excerpts ‘De noticia 12 domorum per quam scitur que fuit domus naturales et que accidentales...’ (28v–32r); ‘Et scias quod in prima facie Arietis ascendit forma hominis nigri...’ (32r–32v); alchemical glossary ‘Aspaltum id est brenno vel furfurum...’ (32v–33v); Pseudo-Thomas Aquinas, *Liber de essentiis* (34r–40v); Thebit Bencora, *De imaginibus* (41ra–43rb); Hermes/Belenus, *Liber imaginum Lunae* (43rb–44rb); **Ptolemaica (44rb–46va)**; Thomas of Cantimpré, *De natura rerum* (46vb–63v).

Bibl. *TCMS*, II, 65; Saxl 1915–1953, II, 99–103; Unterkircher 1957, 69; Roland 1999, 76; S. Ackermann, *Sternstunden am Kaiserhof. Michael Scotus und sein Buch von den Bildern und Zeichen des Himmels*, Frankfurt/Main, 2009, 539–42; *Die illuminierten Handschriften der Österreichischen Nationalbibliothek*, 13; U. Jenni, M. Theisen, *Mitteleuropäische Schulen IV (ca. 1380–1400). Hofwerkstätten König Wenzels IV. und deren Umkreis*, Wien, 2014, 69–89 (and colour reproductions, Fig. 1–18); Blume/Haffner 2012–2016, II.1, 209–14.

44rb–46va ‘Ymagines Ptholomei [title added in the margin, other hand]. <O>pus ymaginum Ptolomei et est omnibus modis verior et valencior in probatione quoniam omnis effectus constitutus est super facies 12 signorum. Dixit Alburabeth Benfelis quia omnes orientales operantur per has ymagines — et inpetrabis ea que animus tuus desiderat. Explicit liber Ptolomei super facies signorum.’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**. No glosses. Topics noted by the scribe in the margins.

Vienna, Österreichische Nationalbibliothek, 2386

s. XIV. **Prov.:** Philipp Eduard Fugger (1546–1618).

Parchment, 8 f., a single hand.

Astronomy: Pseudo-Messahallah, *De compositione astrolabii* (1ra–6va); **Ptolemaica (6va–7rb)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (7rb–7vb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (7vb–8ra); Pseudo-Thebit Bencora, *De motu octave spere* (8rb–8vb).

Bibl. TCMS, II, 66; Franz 1988, 73.

6va–7rb ‘Thebit de hiis que indigent expositione atequam legatur Almagesti. <E>uator est circulus maior qui describitur super 2 polos mundi — propinqui oppositioni Solis erunt retrogradi.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. Two corrections by the scribe or a similar hand f. 6va.

Vienna, Österreichische Nationalbibliothek, 2388

s. XIII^{ex}–XIVⁱⁿ (Stefan Georges, private communication). **Or.:** f. 8–55 (and perhaps f. I–6) are copied by English hands. **Prov.:** Matthias Corvinus (1443–1490).

Parchment, I + 56 f., a single hand copied the core of the MS (f. 8–52). F. I–6 and 55–56 (two hands, late 13th or 14th c.) form one unit which was added to the MS at a later stage.

Astrology, astronomy and medicine (f. 8–52): **Ptolemaica (8r–22v)**; Alfraganus, *De scientia astrorum*, tr. John of Seville (23ra–40ra); ‘Tractatus quidam de regimine principum. Nota ad universalem notitiam hic de regimine principum...’ (40ra–52ra). The added parts contain the chapter index of a theological work (Iv–5r) and fragments of a biblical commentary (5r–6r and 55r–56v). Blank: Ir, 6v–7v, 52v–54v.

Bibl. TCMS, II, 66; C. Csapodi, *The Corvinian Library. History and Stock*, Budapest, 1973, 336 (no. 553); Lemay 1999, I, 387–88; C. Csapodi, ‘Codices, die im Jahre 1686 von Buda nach Wien geliefert wurden’, *Codices Manuscripti* 7 (1981), 121–27: 125.

8r–22r ‘Centiloquium Ptolomei. <M>undanorum ad hoc et ad illud mutatio corporum celestium... Scientia namque astrorum ex te et illis est... Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Ptholomeus, ex te et illis, significat quod que res futuras prenoscere desiderat — et quanto melius quivimus exposuimus. Explicit. B.’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, ‘Mundanorum’ version (C.3.1.3)**. Occasional short marginal notes by another hand.

22r–22v ‘<P>tholomeus in hoc libro tricas et tricarum nomina ponit... Stelle cum caudis sunt IX que mundum movent — in regibus et principibus apparebit. Et hec de cometis breviter distinximus, sicut de conceptus et nativitatis hora dicendum.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.

22v ‘<D>ixerunt Ptholomeus et Hermes quod Lune locus in hora — et hoc expertus fuit multotiens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. No glosses.

Vienna, Österreichische Nationalbibliothek, 3105

s. XV¹ (1440, cf. colophon f. 36vb; 1441, cf. f. 63va).

Paper, 78 f., one main hand, with additions by a contemporary or somewhat later hand (e.g. f. 51v and 63vb–64rb), also responsible for the glosses to Ptolemy's *Quadripartitum* (f. 1ra–33vb), reserved initials.

Astrology, optics and astronomy: **Ptolemaica (1r–33v, 33v–36v and 37r–51r)**; 'In anno ... [blank] terciē ere Arabum apparuit cometes in plaga...' (51va, added); Johannes Peckham, *Perspectiva communis* (52ra–63va); 'Omnes sapientes Indie conveniunt in uno iudicio dando super cometes secundum apparentiam illorum in triplicitatibus...' (63vb–64rb, added); astronomical table 'Tabula veri motus Solis et Lune...' (67r, added, apparently by a third hand); '<I>ntroitu Solis in Arietem...' (67va–67vb); *Theorica planetarum Gerardi* (68ra–73ra); Pseudo-Messahallah, *De compositione astrolabii* (73va–76rb). Blank: 64v–66v, 76v–78v.

Bibl. *TCMS*, II, 197; Unterkircher 1957, 91; Lemay 1999, I, 280–81.

1ra–33vb 'Incipit liber 4 partium Ptolomei Alfiludhi in scientia iudiciorum astrorum in cuius primo tractatu sunt 24 capitula. Tetrasta grece, latine Quadripartitum, arabice Alerboa. Capitulum primum primi tractatus libri quatuor partum Ptholomei Pheludiani in collectione intellectus scientie astrorum. <R>erum, Yesure, in quibus est pronosticabilis scientie stellarum perfectio magnas et precipue duas esse deprendimus — hoc in loco huic libri finem i<m>ponere non incongruum extimamus. Expliciunt quatuor tractatus Ptholamey (!) Quadripartiti.'

= **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1)**. I, 1ra–9va; II, 9va–17va; III, 17vb–28ra; IV, 28ra–33vb. A large section of II.3 is missing, due to f. 11r–11v left blank: /10vb/ 'in eis sunt periti regiminis et bene agunt omnium et bonorum... /12ra/ ... associantur. Qua de re quamplures harum incole regionum Venerem venerant...'. F. 5v is also blank, but this does not affect the text. Glosses by the second hand, some of which mention 'Haly' (e.g. f. 9v, 13v).

33vb–36vb 'Incipiunt tria exempla nativitatum Hali que adducuntur in fine scripti ipsius Haly super quatuor tractatibus Quadripartiti. (34ra) <V>olo in hoc loco dare tibi exemplum trium nativitatum ut melius intendas quicquid locuti sumus in eis. In primo est nativitas mea — et Deus te dirigat in viam rectam. Volui probare utrum iste auctor iudicaret secundum nonam speram vel secundum octavam inveni per loca planetarum que ponit in figura sue nativitatis quod ipse fuit annis Christi perfectis 986, 10 mensibus, 15a die Ianuarii, qua die equavi planetas secundum tabulas Mathei (!) et inveni sic. Explicit liber Ptho<lome>i astrologie cum commento Haly. Expliciunt exempla Haly trium nativitatum anno tribulationis 1440 fuerunt scriptis (?).' = **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**. Haly's appendix and additional note only. No glosses.

- 37ra–37rb ‘<D>ixerunt Ptolomeus et Hermes quod locus Lune in hora — expertus fuit multotiens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). No glosses.
- 37rb–37va ‘<P>tholomeus <dicit> quod stelle cum caudis sunt novem — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). Glosses by a later (?) hand, quoting Aristotle and Alkindi.
- 37ra–51rb ‘Incipit liber centum verborum Ptolomei [title in upper margin, hand of the scribe]. <D>ixerunt Ptolomeus et Hermes quod locus Lune in hora — (37rb) expertus fuit multotiens. <P>tholomeus <dicit> quod stelle cum caudis sunt novem — (37va) in regibus et divitibus apparebit. Dixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... <S>cientia stellarum ex te et illis est... (37vb) <Q>uod dixit Ptolomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — et ego Deum precor ut te dilligat. Et perfecta est huius libri translatio 17 die mensis Marcii, 12 dies (!) mensis Gumedi secundi anno Arabum 530. Expletus est liber centum verborum Ptolomei. Deo gracias.’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium***, **tr. Plato of Tivoli (C.3.1.1)**, opening with Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 37ra–37rb (see above) and *De cometis* (B.4) on f. 37rb–37va (see above). Substantial glosses by the scribe, often introduced by the words ‘Sensus huius littere...’, and glosses by a later (?) hand f. 37r–37v.

Vienna, Österreichische Nationalbibliothek, 3106

s. XV². **Or.:** Rome (?) (Roland). **Prov.:** Vienna, Stadtbibliothek.

Paper, 263 f., a single neat hand.

Ptolemaica (single text). Blank: 262v–263v.

Bibl. *TCMS*, II, 197; Monfasani 1984, 76; Roland 1999, 87.

- 1r–262r ‘Georgii Trapezuntii ad libros Magne Ptholomei compositionis introductio. Capitulum primum de divisione omnis circuli et precipue zodiaci. <Q>uoniam libros Ptholomei de motibus celestium, quibus nescio an quicquam altius ac rationis et scientie via certius inveniri aut fingi possit, ex Greca lingua in Latinam vertimus... (13v) Expositio Magne compositionis Ptholomei a Georgio Trapezunda facta incipit. Codicis huius quem exposituri gratia salvatoris sumus volumina librique XIII sunt, in quibus Ptholomeus intendit erraticarum stellarum et fixarum motus invenire — (260v) maius inter observationes temporis spatium exigitur quam vita hominis sit’ (followed by diagrams and notes).

= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.I.19)**. Introduction, 1r–13v; Book I, 13v–39r; II, 39r–69r; III, 69r–85r; IV, 85r–98v; V, 98v–129r; VI, 129r–154v; VII, 154v–156v; VIII, 156v–162r; IX, 162r–183r; X, 183r–197v; XI, 197v–211r; XII, 211r–229r; XIII, 229r–260v; diagrams and notes, 260v–262r. No glosses.

Vienna, Österreichische Nationalbibliothek, 3124

s. XIV^{ex} or XV. **Or.:** probably Italy (‘ç’ for ‘z’, prevalence of Italian cities in the table f. 148r). **Prov.:** perhaps Buda (Csapodi).

Paper (except f. 193–200, parchment), 212 f. (f. 1–182 formerly numbered 17–198 and f. 183–211 formerly numbered 221–249, hence 16 folia appear to be missing at the beginning and 22 folia between current 182 and 183); several similar hands, homogeneous layout and decoration for f. 1–192. F. 94 and 95 are torn, making their text inaccessible.

Astrology: ***Ptolemaica* (1r–11r)**; excerpts from Guido Bonatti, Haly Abenragel and Pseudo-John of Seville’s *Epitome totius astrologie* (11v–15v); *Capitula Almansoris* (16r–20v); Zael, *Liber iudiciorum*, incomplete (21r–30r); *Proportiones competentes in astrorum industria*, 50 (30r–30v); Aomar, *De nativitatibus* (32r–42r); ‘Exemplum ponam de anno domini 1345, in quo anno convenerunt tres planete superiores in Aquario in eadem facie eiusdem signi in mense Martii...’ (42r); Haly Abenragel, *De iudiciis astrorum*, excerpt (42v–43r); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, excerpt (43r–48r); medical recipe (48v); Hermes/Alexander, *Liber de septem herbis* (49r–49v); Hermes/Thessalus, *Liber de virtutibus herbarum decem et novem* (49v–53r); ‘Incipit liber secundus quem edidit Xenocrates ex influenza septem planetarum...’ (53r–57v); ‘Verba Apolonii de proprietatibus rerum quomodo virtus unius frangitur per alium. Adamas nec fero nec igne domatur...’ (57v–58v); Messahallah, *De significationibus planetarum in nativitate* (59r–67v); Haly Abenragel, *De iudiciis astrorum*, excerpt (68r–68v); Albohali, *De nativitatibus*, tr. Johannes Toletanus (69r–82v); ***Ptolemaica* (83r–84r and 84v–85va)**; Albumasar, *Flores*, end gone duo to last page torn (86r–94v); Albubater, *De nativitatibus* (96r–125v); Gergis, *De significatione septem planetarum in domibus* (126r–128r); representation of 12 magical seals (128v); Abraham Avenezra, *Liber nativitatum et revolutionum earum*, tr. Pietro d’Abano (129r–139v); Messahallah, *De revolutionibus annorum mundi* (140r–145v); ‘Canon super tabulam que intitatur tabula inveniendum revolutionem anni secundum Iohannem. Si volueris invenire ascendens revolutionis anni natalis vel mundani...’ (146r), with table ‘secundum Iohannem’ (146v); ‘Canon ad inveniendum horam introitus in primum minutum Arietis secundum Alfonsistas (!). Quando volueris scire equinoctium vernale...’, with example for the year 1343 (147r); ‘Canon super latitudines et longitudes 7 climatum, regionum et civitatum. Predictis addiciendum est de latitudine loci in quo fueris...’ (147v), with table giving coordinates of cities (148r); ‘Capitulum in proiectione radiorum planetarum. Cum volueris proiectionem prolicere radios alicuius planete...’ (149r–151v); Albumasar, *Introductorium maius*, VII.7, tr. John of Seville: ‘Capitulum de proiectione radiorum planetarum Ptolomei secundum expositionem Albumasar...’ (151v–152r); ***Ptolemaica* (152r)**; excerpts from Guido Bonatti and Haly Abenragel (152v–158r); chiromancy (158v–159v); Hermes, *Liber de stellis beibentiis* (161r–162v); excerpts from Guido Bonatti and

Haly Abenragel (163r–182v); ‘Effectus universales superiorum corporum in hiis inferioribus...’ (183r–185r); ‘Capitulum de significationibus Arietis cum ipse fuerit ascendens in hora alicuius coniunctionis magne vel eclipsis...’ (185v–187r); ‘De modo et ordine pronosticandi’ (188r); ‘Tractatus de significationibus domorum... Cum aliquis ex speris (?) fuerit in ascendente alicuius revolutionis anni...’ (188v–191v); ‘Si vis scire signum alicuius, computa nomen eius et patris et matris...’ (192r–192v); Abraham Avenezra, *De interrogationibus*, tr. Pietro d’Abano (193ra–196ra); Abraham Avenezra, *Tractatus particulares*, tr. Pietro d’Abano (196rb–198ra); Bartholomew of Parma, *Liber de occultis* (198rb–199va); Bartholomew of Parma, *De iudiciis astrologie*, excerpt (199vb–200ra); ‘Incipiunt significationes naturales planetarum extracte de libro conciliorum magistri Barthi. de Parma secundum artem astrologie. Saturnus dicitur ab antiquis...’ (202r–203v); ‘Incipiunt significationes planetarum cum fuerint domini anni mundi in qualibet revolutione et hoc secundum magistrum Barthm. de Parma. Saturnus est planeta et non stella...’ (204r–205r); Gergis, *De significatione septem planetarum in domibus*, beginning only (205v); ‘De libero arbitrio. Homo rationalis principaliter est dominus suorum actuum...’ (205v); Michael Scot, *Liber introductorius*, excerpt (206r–211v). Blank: 31r–31v, 44r–44v, 148v, 160r–160v, 174r–174v, 175v, 187v, 200rb–201v, 212 (except for a few notes).

Bibl. *TCMS*, II, 208–10; C. Csapodi, ‘Codices, die im Jahre 1686 von Buda nach Wien geliefert wurden’, *Codices Manuscripti* 7 (1981), 121–27: 127; Lemay 1999, I, 425.

1r–11r ‘Liber iudiciorum Ptolomei ad Aristonem filium suum. Signorum alia sunt masculini generis, ut Aries, Gemini, Leo, Libra, Sagitarius et Aquarius, alia sunt feminini, ut Taurus, Cancer — (9v) piper, scuta et arma. De capite anni. Ut autem ratio inveniendi... De mansionibus Lune. Aristoteles plenus artibus dixit: Selini, id est Luna, clare videtur... (10v) De placito. Si queritur de placito ab aliquo an debeat vincere — de pecunia ablata, librum vel cartam, de infirmo vel inimico aliquod siccum vel lignum. Explicit liber iudiciorum Ptolomei ad Aristoten filium suum.’

= **Pseudo-Ptolemy, *Iudicia* (B.3)**, including Pseudo-Aristotle’s *De Luna*, 9v–10r. Glosses by the scribe or a similar hand f. 2v, 6v, 7v, 8r, 10v.

83r–84r ‘Incipit capitulum secundum tercii tractatus Quadripartiti Ptolomei in sciendo gradum ascendentem per animodar. Quoniam multociens cadit dubietas in ipsa re in qua magis considerare debemus que est gradus ascendentis hora exitus creature... Expositio Haly super totum suprascriptum capitulum. Quoniam multociens etc. Dixit prima res in qua debemus magis considerare, hoc est gradus ascendentis — qui fuerit maioris fortitudinis et maioris concordantie cum re quam petimus. Vel aliter secundum quosdam et secundum hunc modum debet fieri animodar — et post oportet ipsum equare duodecim domos.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2)**, III.3 (on the animodar = ch. III.2 in Robbins’s edition of the Greek text), with Haly’s comm. and with an additional paragraph at the end. Two short marginal notes by the scribe (83r), one of which refers to Guido Bonatti.

84v–85va ‘De gradu ascendentis investigando secundum Ptolomeum et secundum alios invenitur facies vel saltem signorum. Ptolomeus verbo 34 Centiloquii inquit:

Almusteuli super gradu coniunctionis erit in simili gradu anguli... Expositio. Primo oportet investigare gradum coniunctionis vel preventionis que fuerit ante nativitatem et proprior... (85ra) De gradu ascendente verissime inveniundo. Semper Luna in nativitate gradus eius describit in conceptione... Dixerunt Pth<olomeu>s et Hermes: Locus Lune in nativitate hominis est gradus... Expositio. Equabis Lunam in hora nativitatis... (85rb) Glosa circha (!) expositionem. Equabis Lunam hora nativitatis etc. Ad equandum Lunam in hora nativitatis, oportet ut primo habeamur gradum ascendente — secundum distanciam horarum et minorum a puncto conceptionis ad punctum nativitatis.'

= *De gradu ascendente investigando* (C.3.10). One marginal note by the scribe or another hand f. 84v.

152r 'Capitulum projectionis radiorum secundum Pth<olomeu>m. Cum proiectionem radiorum stellarum scire volueris, scias gradum ascendente — erit verus locus radiationis equate.'

= *Pseudo-Ptolemy, Liber projectionis radiorum stellarum* (B.6). Interlinear and marginal glosses by the scribe.

Vienna, Österreichische Nationalbibliothek, 3161

s. XV² (after 1473/1474). **Or.:** Italy, annotated by Giovanni Pontano between 1479 and 1490 (information Michele Rinaldi).

Paper, 65 f. (previously foliated 9–73), a single neat hand. The MS is missing folia at the beginning and at the end.

Ptolemaica (single text).

Bibl. *TCMS*, II, 220.

1r–65v '... calida natura adhibitis frigidis temperari, ac sicca humidis, humida item siccis, quod ars cura diligenti adhibita procul dubio praestabit... (1v) VI. Tunc dierum prodest et horarum electio... (2r) Ea celi pars que hora nativitatis supra terra ascendit, unde a nostris appellatur ascendens — nec vero nisi ex antecedentibus illorum coniuncti...'

= Giovanni Pontano, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16), v. 5–50, incomplete on both ends due to missing folia. The text opens towards the beginning of the commentary of v. 5 and ends towards the beginning of the commentary of v. 50. *Verba* are numbered in the margin. Numerous corrections and additions by Pontano.

Vienna, Österreichische Nationalbibliothek, 4782

s. XV^{ex} (in or after 1491, cf. f. 221r: 'anni currentis... 1491'; the colophon 'Expliciunt canones astrolabii per magistrum Georgium Pewrbach edidi anno salutis 1460' on f. 270v refers to

the date of composition of Peurbach's work). **Or.:** probably Vienna. **Prov.:** Johannes Faber (d. 1541), bishop of Vienna (cf. inner front cover and f. 271r); University of Vienna.

Paper, 271 f., two hands (f. 1–13 and 14–270).

Astrology and astronomy: **Ptolemaica (1r–13r)**; astrology 'Res quibus perficiuntur prenotationes acceptae de astronomia...' (14r–221r); Peurbach, *Canones astrolabii* (225r–270v); added notes (271r–271v). Blank: 13v, 221v–224v.

Note The incipit of the text f. 14r–221r corresponds to the beginning of Book I of Ptolemy's *Quadripartitum* in the translation of Egidius de Tebaldis (see C.2.2), but the text itself is different, consisting of a comprehensive astrological treatise in 54 *differentie* covering all topics.

Bibl. *TCMS*, III, 386; Zinner 1964, 30; Monfasani 1984, 76; Rosińska 1984, 557 (index); Markowski 1990, 320; Lemay 1999, I, 410.

1r–13r '<L>ibrum Claudii Ptolomei mi Alfonse rex inclite traductum quem vulgo Centiloquium ipse fructum appellat... (3r) <I>am pridem perutiles ad providendum operationes stellarum, o Sirie, quas in hoc composito efficiunt mundo exposuimus... Abs te et a scientia, non est enim possibile ut huius scientiae professor particulares rerum ideas prevideat — Sin vero non moventur hostis indigena erit. Finis Ptolomei Claudii liber feliciter.'
= **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**, without the commentary. George of Trebizond's preface, 1r–2v; author's preface, 3r; text, 3r–13r. No glosses.

Vienna, Österreichische Nationalbibliothek, 4799 [Plate 14]

s. XV^{med} (c. 1450; one gloss alludes to the precessional increment 'pro anno Christi 1450 completo' f. 41va). **Or.:** copied by Peurbach in northern Italy. **Prov.:** Peurbach bequeathed the MS to the University of Vienna, cf. added note f. Ir: '1461. Hunc librum clarissimus olim philosophus et mathematicus magister Georgius de Peurbach facultati artium testatus est, cuius anima requiescat in pace.' Regiomontanus also annotated the MS (see below).

Paper, II + 78 f., a single hand.

Astronomy: historical note on Ptolemy (IIr); **Ptolemaica (1ra–77va)**; Ibn Mu'adh, *De crepusculis* (77va–78rb); 'De motu trepidationis octave spere. Tractatus in quo continetur doctrina motus accessionis et designationis figure...' (78rb–78vb). Blank: Iv, IIv.

Bibl. *TCMS*, III, 390; Kunitzsch 1974, 89–90; Zinner 1990, 32, 54–55, 206 and 226; Kunitzsch 1986–1991, II, 15; Georges (forthcoming).

1ra–77va '<Q>uidam princeps nomine Albuguaf in libro suo quem scienciarum electionem per verborum pulcritudinem nominavit... onum scire fuit quod sapientibus non deviantibus visum est — (77ra) per ipsam prolongationem et abbreviationem, tunc iam sequitur et honestum est ut ponamus hoc finem

libri. Explicita est dictio terciadecima libri Ptholomei et cum ea completur liber Almagesti de disciplinalibus. Deo gratias. Capitulum primum in prologo huius libri. Bonum quod fecerunt in eo quod video illi qui perscrutati sunt — neque consecuti sunt ex eius comprehensione quod oportet.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A, with elements from Class B. Preface, 1ra; I, 1ra–6rb; II, 6rb–14vb; III, 14vb–19rb; IV, 19rb–25ra; V, 25ra–31va; VI, 31va–39va; VII, 39va–43vb; VIII, 43vb–47va; IX, 47va–58rb; X, 58rb–61rb; XI, 61rb–68ra; XII, 68ra–72ra; XIII, 72ra–77ra; ch. I.1 in Iṣḥāq’s version, 77ra–77va. Substantial glosses by the scribe (Peurbach) and a few glosses by Regiomontanus, e.g., f. 3r [Plate 14], 11r, 36r and 47r.

Vienna, Österreichische Nationalbibliothek, 5145

s. XV.

Paper, 95 f., four main hands (f. 1–11, 12–28r, 34–56, 58–94). One or several folia are missing between f. 10–11 and between f. 11–12.

Astronomy and astrology: canons ‘Ad vera loca cuiuslibet planetarum...’, with examples for the year 1343 and the meridian of Erfurt (1r–5v); Pseudo-Messahallah, *De compositione astrolabii*, use only (5v–10v); *Capitula Almansoris*, chs 1–18, rest gone (10v); fragment of an astronomical text (11r–11v); comm. on Sacrobosco’s *De sphaera* ‘Felix est civitas illa ubi Persides philosophi fuerunt...’ (12r–28r); ‘Si dyameter terre vis invenire...’, added by another hand (28v); ‘Nota: Tempus coniunctionis et oppositionis vere Solis et Lune...’ (34r–41r); Roger Bacon, *Opus maius*, excerpt from Book IV ‘De utilitate arismetice potest sumi per infrascripta...’ (41v–47r); **Ptolemaica (47r–51v)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (51v–54r); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (54r–56v); Cristannus de Prachaticz, *Usus astrolabii* (58ra–66ra); Cristannus de Prachaticz, *Compositio astrolabii* (66ra–71rb); astronomical notes, added by two other hands (71v); ‘Quia presens scientia est introductoria ad astronomiam...’ (72ra–94vb); added notes (95r); scattered notes and pen trials in Latin and German by several hands (95v). Blank: 29–33, 57.

Bibl. *TCMS*, IV, 39.

47r–51v ‘Thebit de hiis que indigent exposicione antequam legatur Almagesti. Equator diei est circulus maior qui dis... (?) super duos polos mundi — propinqui oppositioni Solis erunt tunc retrogradi.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Vienna, Österreichische Nationalbibliothek, 5203

s. XV² (c. 1454–1462). **Or.:** Regiomontanus’s notebook, copied mainly in his hand (with a few pages copied by Peurbach) at the University of Vienna. **Prov.:** Regiomontanus; Bernhard

Walther; Johannes Schöner, who assembled the volume from Regiomontanus's library, foliated it, and added the table of contents (f. 1r) and many titles throughout; Philipp Eduard Fugger (1546–1618).

Paper, 180 f., one main hand (Regiomontanus), except for (1) f. 67–69 and 88–92, copied by Peurchach; (2) f. 79–86, copied by a third hand.

Astronomy, astrology, music, mathematics and physics: table of contents by Johannes Schöner (1r); Peurbach, *Theoricae novae planetarum* (2r–24r); 'De tabula sinus et chordarum. Fecere maiores nostri sinus et cordarum tabulas...' (28r–32v); 'Tabula radicum et numerorum quadratorum', incompletely filled (33r–41v); 'Quadratum geometricum. Sit instrumentum rectangulum ABC cuius duo latera...' (42r, with tables 42v–44v); 'Alpetragus opinabatur omnes orbes celestes ab oriente in occidentem moveri...' (45r–47v); 'Tabula radicum et numerorum cubicorum', incompletely filled (48r–50r); mathematical notes (53v); 'Compositio tabule altitudinis Solis ad omnes horas. Cum diu saepe dubitarem an tabella que Solis altitudines ad horam...' (54r–58v); Peurbach, *Fabrica et usus instrumenti pro veris coniunctionibus et oppositionibus Solis et Lune* 'Cum animadvertissem quoddam instrumentum pro veris coniunctionibus facile reperiendis...' (67r–69v); 'De equationibus dierum. Anno domini 1456^{to} corrente Sol intrabit augem suam...' (70r–71v); 'Sinum totum ad sinum arcum ecliptice ab aliquo puncto...' (79r–80v); 'Instrumentum universale ad inveniendum horas in quocumque climate fueris fabricare, primo in material aut metalli...' (80v–86r); Peurbach, *Speculum planetarum* 'Quoniam experimentum sermonum verorum est ut consonent...' (88r–92r); Henry of Langenstein, *De reprobatione eccentricorum et epiciclorum* (100r–117r); 'De influxu celesti et iudiciis utilia. Primum celi quedam influunt Lune motu ac influxu...' (117v–118v); Petrus de Sancto Audomaro, *Tractatus de semissis*, ch. 9 'Theorica latitudinum planetarum. Theorica motus planetarum in latitudine...' (119r–120r); **Ptolemaica (124r–128r)**; notes on music and geometry (128r–128v); John of Murs, *Musica speculativa* (129r–133r); 'De astronomia et astrologia et cyromantia. Astronomia et astrologia in hoc differre videntur...' (133v–134v); 'De proportionibus. Datis extremis duobus media inter eos...' (136r–137r); Jordanus de Nemore, *De plana spera* (137v–140v); Apollonius, *Liber de pyramidibus* (141r–141v); Zenodorus, *De isoperimetris* (142r–146r); Gernardus, *Algorismus demonstratus* (148r–166v); notes on arithmetic (167r–168r); Thebit Bencora, *Liber carastonis* (172r–173v); 'Aliud commentum' on Jordanus de Nemore's *Elementa super demonstrationem ponderum* (174r–178v); *Liber de canonio* (178v–180v). Blank: 1v, 24v–27v (except for the draft of a table and notes by Regiomontanus f. 26r–26v), 50v–53r, 59–66 (except for an incomplete astronomical diagram f. 66v), 72–78, 86v–87v, 92v–99v, 120v–123v, 135, 146v–147v, 168v–171v.

Bibl. *TCMS*, IV, 56–57; Unterkircher 1969–1976, III.1, 210; M. Folkerts, 'Die mathematischen Studien Regiomontans in seiner Wiener Zeit', in *Regiomontanus-Studien*, ed. G. Hamann, Wien, 1980 (reprinted in M. Folkerts, *The Development of Mathematics in Medieval Europe*, Aldershot, 2006, V), 175–209; 176–86; Pedersen 1983–1984, II, 659–60; Franz 1988, 77; Zinner 1990, 203–04 (no. 30); M. Folkerts, 'New Results on the Mathematical Activity of Regiomontanus', in Zinner 1990, 363–72; 366–67; Maruska 1993, 421–22; Maruska 2008, 97; M. Malpangotto, 'Les premiers manuscrits des *Theoricae novae planetarum* de Georg Peurbach: présentation, description, évolution d'un ouvrage', *RHS* 65 (2012), 339–80; 344–46 and *passim*; Malpangotto 2020, 648–49.

- 124r–128r ‘Tractatus sinuum et chordarum Georgii Peurbachii. Sinuum, cordarum et arcuum noticia ad celestium motuum cognitionem pervalde necessaria existit, ideo de eorum doctrina restat in presenti perquirendum — Et similiter sciemus quantitates reliquarum chordarum, facilis ergo est secundum premissorum tenorem cordarum ad suos arcus cognitio. Finis.’
 = **Georg Peurbach**, *Tractatus super propositiones Ptolemei de sinibus et chordis* (C.1.20). One gloss f. 124v, apparently by the scribe (Regiomontanus).

Vienna, Österreichische Nationalbibliothek, 5209

s. XVI. **Or.:** probably Italy and perhaps southern Italy (cf. esp. f. 4r and 146r–146^{bis}r). **Prov.:** Vienna, Hofbibliothek (f. 1r).

Paper, 151 f., a single hand (except additions f. 147–151).

Astronomy and astrology: ‘Quid sit annus? Annus revolutionis dicitur tempus in quo Sol... Ex Prefatio Iudeo’ (1r–3v); table: 12 signs and corresponding Italian cities ‘Aries: Florentia, Faventia, Ancona...’ (4r); diagram ‘Scala latitudinum’ (4v); **Ptolemaica** (5r–72v + 5r–71r, 72v–74v and 74v–76v); Albumasar, *Flores* (77r–132r); **Ptolemaica** (133r–145v); ascension table for latitude 41°, with canon (146r–146^{bis}r); added astronomical tables (147r–151v). Blank: 132v, 146^{bis}v.

Bibl. *TCMS*, IV, 59; Lemay 1999, I, 281–82.

- 5r–72v ‘Centum verba Ptolomei cum expositione Abuiafar filii Ioseph Abrae scriptoris. Dixit Ptolomeus: Iam scripsi tibi, Iesure, libros de hoc quod operantur stelle in hoc seculo... Primum vebum. Sciencia stellarum ex te et illis est... (5v) Quod dixit Ptolomeus, ex te et illis, significat quod qui res futuras prenoscere desiderat — quod ego malui exponere in hoc libro, et credo quod idoneum sit suis rationibus et quod perfecta sit eius expositio ad laudem omnipotentis Dei et omnium sanctorum eius. Finis centum verbis Ptolomei clarissimi in Christi nomine.’
 = **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. Plato of Tivoli** (C.3.1.1). A few glosses by the scribe and, apparently, by another, contemporary hand that added, in the margins, the propositions in Giovanni Pontano’s translation (see below).
- 5r–71r ‘Verba Pto<lomei> e Greco traducta per Pontanum. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronuntiet — sin non moventur provincialis hostis erit.’
 = **Giovanni Pontano**, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16), propositions only, as glosses to the *Centiloquium* above.
- 72v–74v ‘De mora media, maior et minor. (73r) Dixerunt Ptolomeus et Hermes quod locus Lune in hora — expertus fuit ipse magister multotiens.’
 = **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5). Glosses by the scribe.

- 74v–76v ‘De stellis crinitis. (75r) Ptolomeus dixit quod stelle cum caudis sunt novem — in regibus et principibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**. No glosses.
- 133r–145v ‘Opusculum Tebit filii Chore pro declaratione Almagesti Ptolomei. Equator diei est circulus maior qui describitur super duos polos orbis — aut propinqui erunt retrogradi. Finit Tebit.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. Marginal notes by the scribe, mainly the topics dealt with.

Vienna, Österreichische Nationalbibliothek, 5239

s. XIV² (f. 128r–149r and 150r copied in 1352, cf. f. 147va). **Or.:** Germany; solar table for Bamberg, MS 5239, f. 2^{bis}r; f. 128r–149r and 150r at least were copied by a brother Jo. Crut... (?), cf. f. 147va: ‘Scriptum est per me fratrem Io. Crut... (?) anno incarnationis 1352, anno bisextili, 13 die mensis Octobris, hora Vesperarum, Sole in 28 gradu Libre, Luna in 6 Sagittarii.’ **Prov.:** Johannes Schöner, who added texts and notes on f. 98r–101v, 126v–127r and 149v; Philipp Eduard Fugger (1546–1618).

Paper, 23 + 150 f. (new foliation 1–23 and 1–150; continuous foliation 1–177 in a late medieval hand). MS made of two parts under the distinct shelfmarks 5239* (f. 1–23, noted *1–23 below) and 5239 (f. 1–150) respectively, several hands, one of which copied at least f. 128r–149r and 150r.

Astrology, astronomy, computus and mathematics mainly: *Astronomia Ypocratis* (*1r–3r); ‘Incipiamus cum Dei auxilio de hiis tractatus que fieri (!) possunt Sole existente in quolibet signo...’ (*3r–5v); ‘De formis signorum quas in se nascentibus tribuunt. Notandum tamen (?) quedam esse generalia, quedam spiritualia...’ (*5v–6r); Arnold of Villanova (?), *De iudiciis particularibus pertinentibus ad medicinam* (*6r–7v); ‘Investigantes... horologiis viatorum...’ (*8r–10v); ‘Nunc de artibus planetarum earum iudicamus...’ (*11r–12v); Prophatius Judeus, *Quadrans novus* (*13r–16r); ‘Sequitur de officio quadrantis prout pertinet ad astronomiam...’ (*16r–19r); ‘Sequitur de officio quadrantis prout spectat ad geometriam... Explicit tractatus de quadrante domini Lincolniensis’ (*19v–23r); figure of celestial spheres, with text ‘De naturis et proprietatibus celorum...’ (*23v); tables and notes of computus and astrology (1r–2^{bis}r); text of geometry missing the beginning and the end (3r–4v); computus (5r–5v); ‘Aries est signum mobile, masculinum, igneum et siccum, colericum...’ (6r–9v); *Computus philosophicus* ‘Cum sit intentio ostendere falsitatem kalendarii nostri...’ (10r–28v); Robert Grosseteste (?), *De impressionibus aeris* (29v–31v); *Astronomia Ypocratis* ‘... Explicit tractatus qui in libro **Ptholomei** repertus est, qui Archaba intitulatur’ (32r–35r); ‘Incipit compotus magistri Gordiani. Ut testatur Augustinus...’ (35r–53v); verses for the 12 months (54r); Sacrobosco, *De sphaera* (54v–63v); comm. on Sacrobosco’s *De sphaera* ‘Quoniam ut testatur Aristoteles in primo De anima...’ (64r–70r); ‘Compositio monocordi. Figure monocordi vel note sunt iste...’ (70r–70v); ‘De effectibus signorum et planetarum. Cum in virtute superiorum et incorruptibilium corporum mundus inferior gubernetur...’ (71r–71v); Johannes Peckham, *De spera* (72r–83r), with figure of the celestial spheres (83r); Robert Grosseteste, *De sphaera*

(83v–88v); Sacrobosco, *Algorismus* (89r–93v); table of squares and cubes (93v); confused notes of astrology, astronomy and arithmetic (94r–95r); list of 15 plants (95v); chiromancy ‘Benedictus Deus qui machinam mundanam et creaturas...’, beginning only (96r); horoscopic diagram showing the power of the 12 houses and the points of essential dignities of each planet in the 12 signs (96v); Perscrutator, *De impressionibus aeris*, added by Johannes Schöner (98r–101v); theology ‘Post peccatum Ade eodem de paradyso propter peccatum expulso...’ (104r–114r); *Somniale Danielis* (114r–120v); astrological medicine ‘De parte fortune. Si vis scire partem fortune, que valde necessaria est ad iudicia...’ (120v–126r); astrological notes, added 1499 (126v); *sortes*, added by Johannes Schöner (127r); **Ptolemaica (128ra–145rb)**; ‘Nota secundum astronomos iudicandum... ut patet per Albumazar in floribus...’ (145va–145vb, continued 150ra–150rb); text on the quadrant, whose first page has been entirely covered with ink (146ra–147va); *Figure septem planetarum* ‘Incipiunt figure 7 planetarum. Et scias quod in istis 7 figuris occultaverunt philosophi et sapientes antiqui 7 Dei nomina...’ (147va–149ra); list of great conjunctions from AM 2509 to AD 749 (149rb); revolution horoscope for 1501, added by Johannes Schöner (149v); 150ra–150rb: see f. 145va–145vb above. Blank: 2^{bis}v (except added notes), 29r, 97, 102–103, 127v, 150v.

Bibl. *TCMS*, IV, 70–71; Unterkircher 1957, 104; Franz 1988, 79; Maruska 1993, 423; Lemay 1999, I, 282–83; Maruska 2008, 100.

- 128ra–128rb ‘Dixerunt Ptol<ome>us et Hermes quod locus Lune — et hoc fuit expertus multociens.’
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see below). No glosses.
- 128rb–128va ‘Ptolo<meus> dixit quod stelle cum caudis sunt 9 — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see below). No glosses.
- 128ra–145rb ‘Dixerunt Ptol<ome>us et Hermes quod locus Lune — (128rb) et hoc fuit expertus multociens. Ptolo<meus> dixit quod stelle cum caudis sunt 9 — (128va) in regibus et divitibus apparebit. Dixit Ptolo<meus>: Iam scripsi tibi, Yesure, libros de hoc quod operantur stelle in hoc seculo... (128vb) Verbum primum. Scientia stellarum ex te et illis est... Expositio. Quod dixit Pto<lome>us, ex te et illis, significat quod que res futuras cognoscere desiderat — precor ut diligat. Et perfecta est huius libri translatio 17^o die mensis Martii, 12 die mensis Gumedi secundo anno Arabum 530. Explicit Centilogium Ptholomei Pheludensis [this explicit is given in Greek-looking letters, Cyrillic letters acc. Lemay].’
= **Abuiafar Hamet filius Joseph, *Commentum in Centiloquium*, tr. Plato of Tivoli (C.3.1.1)**, introduced by Pseudo-Ptolemy’s *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5) on f. 128ra–128rb (see above) and *De cometis* (B.4) on f. 128rb–128va (see above). Corrections and glosses by the scribe, including one gloss mentioning, in the past tense, the conjunction of several planets in Taurus on 31 March 1353 (f. 136r [v. 50]: ‘Anno domini 1353^e 31^a die Marcii erat coniunctio...’).

Vienna, Österreichische Nationalbibliothek, 5251

s. XV. **Prov.:** Vienna, Stadtbibliothek.

Paper, 216 f., one main hand.

Astrology: Alcabitus, *Introductorius* (1r–37v); astrological tables and notes on the 12 houses and essential dignities (37v–39r); *Capitula Almansoris*, attr. ‘Albumazar’ (39v–44r); ‘Due sunt partibus astronomie, quorum una de motibus, altera de iudiciis...’, incomplete (44r–46r); ‘Incipit liber Albumazar de pluviis et mutationibus temporum. Sicud dicit Albumazar Sarracenus ad scientiam pluviarum...’ (46r–47v); text on nativities ‘Totum Alkabitium tabula est ubi in nativitatum operationibus...’ (48r–70v); notes on the Moon and the planets (71r–71v); tables of lunar mansions (72r–73r); Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. Haly (73v–75r); notes ‘Quando Luna comburitur vide si Luna prospicit Saturnum...’ (75v); table: elections from the aspects of the Moon with the other planets (76v); ‘Incipit tractatus de ymbribus et aeris mutationibus et que certum circa versantur...’ (77r–98v, compilation of astrometeorology drawing on Guido Bonatti and others); Albumasar, *Flores* (99r–114r); ‘Scito quod omne quod stelle significant scilicet an res fiant et perficiantur...’ (114v–121r); Perscrutator, *De impressionibus aeris* (121v–134v); Arnold of Villanova, *Introductorium ad iudicia astrologie quantum pertinet ad medicinam* (135r–142v); ‘Corporum mundanorum principalium numerum et figuram, motum et qualitates et naturas signorum...’ (143r–144v); tables: dignities and degrees (145r–146r); **Ptolemaica (146v)**; Prophatius Judeus, *De aspectibus Lune ad alios planetas* (147r–150r); ‘Aspectus planetarum est relatio eorum secundum diversus situs...’ (150v–155v); Zael, *Liber iudiciorum* (156r–203r, *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*); ‘Liber Messahili (!) philosophi. Cum volueris scire quid accadat mundo de pluviis et ventis constitue ascendens horam introitus Solis in primum punctum Arietis...’ (203v–204r); Haly Abenragel, *De iudiciis astrorum*, II.1–2 (204v–208v); ‘Nota: Haly Abenragel de medicinis laxativis dandis. Cum autem alicui egrotus...’ (209r–210v); tables ‘Tabula ad sciendum tempus conceptionis et more in utero...’ and ‘Ad sciendum horam nati in utero matris per horam nativitatis’ (211r); **Ptolemaica (211v)**; commented bibliography of over 100 astronomical and astrological books partly based on Pseudo-Albertus Magnus’s *Speculum astronomie* ‘Est autem scientia largo modo...’ (212r–216v). Blank: 76r.

Bibl. TCMS, IV, 74; Zinner 1964, 31; Roland 1999, 114–15.

- 146v ‘Cum projectionem radiorum stellarum scire volueris, scias gradum ascendentis — erit locus radiationis equate, sicut (?) erit radiorum proiectio etc.’
= Pseudo-Ptolemy, *Liber projectionis radiorum stellarum* (B.6). No glosses.
- 211v ‘Dixerunt Ptholomeus et Hermes quod locus Luna qua infunditur sperma — et ipse fuit multociens expertus.’
= Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5). No glosses.

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s. XV² (c. 1457 for sections copied by Regiomontanus acc. Zinner), except for some parts copied in the first half of the 16th c., including the second Ptolemaic section (f. 156v–158r). **Or.:** University of Vienna, Regiomontanus copied f. 1v, 27r–38v, and 51r–71v and annotated several parts of the MS; table for Vienna f. 12v, 13r and 133v. The 16th-c. additions (including the second Ptolemaic section) were probably made in Nürnberg (see Prov.). **Prov.:** Willibald Pirckheimer, who sold the MS to Johannes Schöner in 1522 (ex-libris on inner front cover; table of contents in his hand f. 1r; note in his hand on inner back cover: ‘Emi hunc codicem pro 1 floreno a Bilibaldo Pyrckhemero anno 1522’); Philipp Eduard Fugger (1546–1618).

Paper, 177 f., several hands, one of which copied f. 2r–24v and 75r–88v.

Astronomy, mainly texts on instruments: table of contents (1r); notes ‘Si in horologio horizontali’ (1v); ‘De horologiis solaribus. Sciendum ut habetur ex spera materiali pluras ymaginantur...’ with tables for Vienna (2r–15r); ‘Turcheti compositio et usus. Si volueris componere turchetum, accipe laminam...’ (16r–18r); Franco de Polonia, *Tractatus de turketo* (18r–21v); three short chapters ‘De inventione longitudinis inter duas regiones... De introitu Solis in puncta equinoctialis... De quantitate anni invenienda...’ (22r–23r); list of constellations with note (23v–24v); Regiomontanus, reworking of Alhazen’s *Speculi almukefi compositio* (27r–35r, ed. Clagett 1964–1984, IV, 203–21); notes ‘Si ponitur totum latus erectum...’ (35v–38v); Alhazen, *De speculis comburentibus* (39r–46v); Apollonius, *Liber de pyramidibus* (47r–48v); Johannes Simon de Zelandia, *Speculum planetarum* (51r–53r); ‘Semicirculus horarius ita construi potest...’ (53r–53v); ‘Instrumentum directorium quomodo fabricatur. Directorium instrumentum compositurus super tabulam planam sit circulus super centro...’ (54r–55r); ‘Zaphee fabrica. Dubitavi cogitando et experientia me...’ (55v–61r); ‘De astrolabio. In astrolabio pro equatore Solis...’ (61v–65r); ‘Supplementum zaphee. In zaphea precedenti circuli...’ (65v–71v); **Ptolemaica (75r–77r)**; ‘Speculum planetarum quomodo fieri...’ (77r–80r); ‘Organum Ptholomei. Quadratum horarium pro multis regionibus diversorum latitudinum, facies hoc modo...’ (80r–81v); ‘Astrolabii confectio. Pro compositione astrolabii accipe primo laminam...’ (82r–84r); ‘De virga visoria. Duarum regionum longitudinem...’ (84v–85r); astrology ‘Quidam nomine Conradus de Stollo...’ (85r–85v); notes of astronomy and arithmetic (86r–86v); ‘Instrumenta coniunctionis et oppositionis Solis et Lune fabrica. Ad constituendum figuram pro vera coniunctione...’ (87r–88r); astronomical tables (88v–96v); ‘Ad faciendum horologium murale...’ (97r–98v); ‘Verum tempus et locus et quantitas tam solaris quam lunaris...’ (100r–108r); John of Gmunden, reworking of Campanus of Novara’s *Theorica planetarum* (113r–128r); ‘De proportionibus rationabilibus. Nota de proportionibus rationabilibus...’ (129r–133r); solar table for Vienna (133v); table: ‘Tabula gnomonis’ (134r), with diagram (134v); Bernard of Verdun, *Tractatus super totam astrologiam*, excerpt on the turquetum ‘Sic facies instrumentum ad modum turqueti...’ (135r–135v); notes (136r); Alfonsine star catalogue (137r–155r); star table (155v–156r); **Ptolemaica (156v–158r)**; ‘Cosmographia est designatio totius orbis...’ (161r–175r); ‘Quoniam omnia fere horologia...’ (175v–176v). Blank: 15v, 25–26, 49–50, 72–74, 99, 108v–112, 128v (except note and unfinished diagram); 136v, 158v–160, 177.

Bibl. *TCMS*, IV, 77–78; Unterkircher 1957, 104; Clagett 1964–1984, IV, 113; Franz 1988, 79; Zinner 1990, 45–46, 204–05 and 244; Maruska 1993, 423–24; Maruska 2008, 100–01; Zepeda 2018, 74–75.

- 75r–77r ‘Albategni [added in upper margin by another hand]. Instrumenta observatoria que in Almagesto ponuntur. Almagesti abbreviatio libro primo, capitulo 15mo, docetur de instrumentis per quod... (75v) Almagesti minori libro quinto, capitulo primo, docet instrumentum armillarum — 5 graduum et similiter erit ex altera parte orbis signorum cognita est.’
= *Almagesti minor* (C.1.4), excerpts from I.15, V.1 and V.11 (on making instruments). No glosses.
- 156v–158r ‘Ex Ioanne Ioviano Pontano super verbo 29 Centiloquii. Aries. Stelle que in Arietis capite collocate sunt — alias fortasse uberius atque expressius de iis dicemus etc.’
= *Giovanni Pontano, Liber commentationum in Centum sententiis Ptolemaei* (C.3.16), excerpt from the commentary on v. 29, copied on ed. Venice 1519 (information Michele Rinaldi). No glosses.

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s. XV¹ (1434 for f. 176–234, including the Ptolemaic section, cf. colophon f. 228va and f. 234ra: ‘Et sic est finis theorice planetarum communis anno 1434^o’; 1437 for f. 78–171, cf. 171ra: ‘Finitum anno domini 1437 currente 23 die Februarii’). **Or.:** f. 176–234 (including the Ptolemaic section) were copied at the University of Vienna by Martinus Mospekch (see colophon f. 228va), who also copied MS ↗Klosterneuburg, SB, 682; f. 236–263 copied by Vincencius Swoftheym de Legnicz in Klosterneuburg, cf. f. 263va: ‘Et est finitus per me Vincentium Swoftheym de Legnicz in felici monasterio Newnburgensi, in curia et in edificio domini patris reverendissimi domini Georii, prepositi monasterii eiusdem. De Slesia natus Vincencius sum vocatus.’ **Prov.:** monastery of Klosterneuburg (cf. above and f. 134r: ‘Liber Sancte Marie in Newnburga claustrali’); Peurbach, then Regiomontanus (Grössing); Philipp Eduard Fugger (1546–1618).

Parchment and paper, 284 f., several neat hands.

Astrology, astronomy, computus and geography: table of contents, 15th c. (1v); Pierre d’Ailly, *Vigintiloquium de concordia astronomice veritatis cum theologia* (2ra–12ra); Pierre d’Ailly, *De concordantia astronomice veritatis et narrationis historice* (12rb–25va); Pierre d’Ailly, *Elucidarium astronomice concordie cum theologica et historica veritate* (25vb–41rb); Pierre d’Ailly, *Apologetica defensio astronomice veritatis* (41rb–43rb); Pierre d’Ailly, *Secunda apologetica defensio astronomice veritatis* (43rb–45ra), followed by four horoscopes and notes (45ra–45vb); Pierre d’Ailly, *Tractatus de figura inceptionis mundi et coniunctionibus mediis sequentibus* (46ra–50va); Pierre d’Ailly, *De concordantia discordantium astronomorum* (50vb–57rb); ‘Canon inventionis medie coniunctionis Saturni et Iovis. Tempus medie coniunctionis...’ (57va–58rb); Pierre d’Ailly, *Tractatus de legibus et sectis contra superstitiosos astronomos* (58va–68rb); Pierre d’Ailly, *Exhortatio ad concilium generalem super kalendarii correctione* (68va–72rb); Pierre d’Ailly, letter on the

calendar to John XXIII (72rb–72vb); John of Murs and Firminus de Bellavalle, *De correctione calendarii epistola ad Clementem VI papam* (73ra–77v); Ptolemy, *Geographia* (78ra–171ra); **Ptolemaica** (176ra–228va); *Theorica planetarum Gerardi* (229ra–234ra); G. Marchio or Marchionis, *Tractatus super planitorbium* (236ra–263va), followed by representations of the instrument (264r–267v); astronomical diagrams (272r–272v); Nicolaus Cusanus, *De correctione calendarii* (273ra–283rb); ‘Avisamentum de correctione calendarii. Tria in consideracionem veniunt...’ (283va–284rb). Blank: 1r, 171v–175v, 234v–235v, 268r–271v, 284v.

Bibl. TCMS, IV, 79–80; Unterkircher 1957, 105; Unterkircher 1969–1976, II.1, 135; H. Grössing, *Humanistische Naturwissenschaft. Zur Geschichte der Wiener mathematischen Schulen des 15. und 16. Jahrhunderts*, Baden-Baden, 1983, 138–39; Franz 1988, 79; O. de Solan, *La réforme du calendrier aux conciles de Constance et de Bâle*, Paris, 2016, 269–71; Zepeda 2018, 68–69.

176ra–228va ‘<O>mnium recte philosophantium non solum verisimilibus coniecturis credibilibusque argumentis — tenebrarum sic se habent etc. Explicit Almagesti minor finitus in vigilia conceptionis gloriosissime Dei genitricis virginis matris Marie, per me Martinum Mospekch, artium bacc<alarium> in alma universitate studii Wyenn<ensi>, anno domini M^o quadrigentesimo tricesimo quarto.’
= *Almagesti minor* (C.1.4). No glosses.

Vienna, Österreichische Nationalbibliothek, 5273

s. XVI¹ (1527 for f. 1r–257r). **Or.:** f. 1r–257r were copied by Johannes Vögelin at the University of Vienna (f. 138v: ‘Finivi Iohannes Vögelin Heylprunensis quinta die Iunii anno Christi 1527 in collegio civium Wiennensium’; f. 257r: ‘Finitus est is liber per me magistrum Ioannem Vögelin Heylprunensem Vienne in bursa Lili anno Christi 1527, die nono Aprilis’). As Nothaft has shown, f. 91r–138v were certainly copied on MS $\rightarrow$ Vienna, ÖNB, 5292, f. 199r–242v (see Nothaft, ‘The Chronological Treatise’ and ‘John of Murs’), and the same might also be true for the Ptolemaic section (f. 35v–90v = MS 5292, f. 1r–65v). **Prov.:** Philipp Eduard Fugger (1546–1618).

Paper, 355 f., several hands, one of which (Johannes Vögelin) copied f. 1r–257r.

Astronomy and computus: Campanus of Novara, *Theorica planetarum* (1r–35r); **Ptolemaica** (35v–90v); ‘Autores calendarii nostri duo principaliter...’ (91r–102r); ‘Ad correctionem calendarii invente sunt tres vie...’ (102v–111r); John of Murs and Firminus de Bellavalle, *De correctione calendarii epistola ad Clementem VI papam* (111v–122r); Johannes de Thermis, *De tempore celebrationis paschalis ad Innocentium VI papam* (122v–138v); Costa ben Luca, *Liber de opere spere volubilis* (139r–155v); ‘Incipit compositio instrumentorum materialium per rotulas et rotas materiales de mediis motibus planetarum. Quoniam, ut ait Aristoteles, summus philosophorum princeps...’ (156r–257r); G. Marchio or Marchionis, *Tractatus super planitorbium* (258r–301r, followed by tables and diagrams on 301v–308v); ‘Pluvie signa hec sunt. Apulle elevate pluvies in fuminibus...’ (309r–311r); ‘Circumferentia est linea curva...’ (318r–324r, followed by tables on 325v–355r). Blank: 257v, 311v–317v, 324v–325r, 355v.

Bibl. *TCMS*, IV, 81; Unterkircher 1957, 105; Benjamin/Toomer 1971, 97; Unterkircher 1969–1976, IV.1, 50; Franz 1988, 80; C. P. E. Nothaft, ‘The Chronological Treatise *Autores Kalendarii* of 1317, Attributed to John of Murs: Text and Introduction’, *CIMAGL* 82 (2013), 1–89: 29–30; C. P. E. Nothaft, ‘John of Murs and the Treatise *Autores kalendarii* (1317): A Problem of Authorship’, *SA* 99 (2015), 209–29: 214–15; Zepeda 2018, 62.

35v–90v ‘<O>mnium recte philosophantium verisimilibus coniecturis credibilibusque argumentis — tenebrarum sic se habent. Explicit.’
= *Almagesti minor* (C.1.4). Short marginal notes by the scribe (Johannes Vögelin).

Vienna, Österreichische Nationalbibliothek, 5277 [Plate 24]

s. XVI¹ (1520 for the first Ptolemaic section, cf. colophon f. 100v; 1525 for f. 231–236, cf. f. 236v). **Or.:** Johannes Vögelin’s notebook, mostly copied in his hand (including both Ptolemaic sections) probably in Vienna; f. 231–236 were copied by Georg Gotzmann of Aubing in Vienna (cf. f. 236v: ‘Viennae Pannoniae per G. G. Aubingen<sem> VIII calendarum Novembrium anno huius seculi quinto et vicesimo’). **Prov.:** Philipp Eduard Fugger (1546–1618). The mention ‘Magistro Ratznperger zu... (?) gehort’ (f. 350r) does not seem to concern the present MS.

Paper, 385 f., one main hand (Johannes Vögelin).

Mathematics, astronomy, optics and geography: table of contents in Vögelin’s hand (1r); ‘Regulae cosae vel algobre. Conditiones circa + vel – in additione...’ (2r–33r); ‘Sequitur ingeniosa ratio investigandi calculo annulum...’ (33v); ‘Modus preparandi virgam visoriam cubicam...’ (34r–36r); ‘Algorithmus de surdis quadratorum. In hoc algarithmo (!) quolibet...’ (37v); Levi ben Gerson, *De sinibus, chordis et arcubus* (38r–65v); notes by Vögelin, including onomancy ‘Scribe primo nomina ipsorum...’ and ‘Trapezuntium in Almagestum capitulo nono. Scientia chordarum...’ (66r); John of Gmunden, *Compositio quadrantis novi seu magni cum eius practica* (68r–90v); **Ptolemaica** (92r–100v); *De inquisitione capacitatis* (101r–110r); Pseudo-Messahallah, *De compositione astrolabii*, first part on construction, chs 17–18 ‘Proiectio sphaerae in planum. Concussio sive extensio immo potius proiectio sphaerae in planum...’ (110v–117r); astrological note ‘Ad cognoscendum omni die qualis sit aura, accipe a Sole in Saturnum...’ (117v); ‘Si quis voluerit componere torquetum, accipiat laminam de quacumque materia...’ (118r–119r); Franco de Polonia, *Tractatus de turketo*, incomplete (119r–123v); comm. on Jordanus de Nemore’s *Elementa super demonstrationem ponderum* (130r–137v); ‘Incipit tractatus specialis de modo demonstrandi iridem esse circularem secundum modum Aristotelis tertio Metheororum, quo continuatur et declaratur textus et demonstratio Aristotelis. Quod autem neque circulum...’ (137v–151r); *De tribus notis* (151v–154r); geometry ‘Artis cuiuslibet consummatio...’ (154r–164v); Jordanus de Nemore, *De plana spera* (164v–167v); Campanus of Novara, *De proportionibus et proportionalitate* (168r–170v); Menelaus, *Spherica* (171r–185r); Gernardus, *Algorismus demonstratus* (199r–223v); *Tractatus de speculo parabolico* ‘Parabolicum speculum est cuius superficiem concavam describit...’ (224r–230r); Zenodorus, *De isoperimetris* (231r–236v); notes on Alfraganus’s *De scientia*

astrorum, chs 22–30 (237r–241v); scattered notes of arithmetic and astronomy in Latin and German (241v–246v), including a note on *Almagest*, V.15 ‘Circa caput decimum quintum libri quinti Magnae compositionis...’ (242r); ‘Instrumentum quo maximus dies discitur in qualibet regione cognita eius elevatione polari. Ptolemeus et in sua Magna compositione et in Geographia...’ (247v–248v); notes on Ptolemy’s *Geographia* (249r–270r); Claudius Clavius, geographical coordinates of northern-European cities and places (271r–276r, ed. Björnbo/Petersen, 216–33); notes on Ptolemy’s *Geographia* and related topics (276r–281r), including ‘De lineis semper appropinquantibus et nunquam concurrentibus. Omnium punctorum duorum in superficie...’ (276v–277r) and ‘Circa proportionies irrationales annotata. Omnis proportio rationalis vel est primaria...’ (277v–278r); ‘De diffinitionibus sinuum secundum IoVerba filiorum Moysi filii Sekir, incomplete (297v–298v); medical recipes and notes in Latin and German (290r–296r); ‘Tabulam minutorum proportionalium componere...’ (296v–298v); Pseudo-Thebit Bencora, *De motu octave spere* (299r–302r); **Ptolemaica (302r–305v)**; Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (305v–307r); Ametus filius Josephi [Aḥmad ibn Yūsuf], *Liber de proportionibus et proportionalitate* (307v–320v); Jordanus de Nemore, *De numeris datis*, reworked (320v–327r) and followed by a commentary (327r–331r); ‘Pro regularum algabre cognitione est primo notandum quando duo signa...’ (331r–334v); Nicole Oresme, *Algorismus proportionum* (335r–336v); ‘Algorithmus quadratorum a quadratis. Reliquarumque ductionum...’ (337r–338v); scattered notes (339r); geographical coordinates of cities, with notes (340r–341r); ‘Horologium horarum inaequalium. Ad faciendum horologium horarum inaequalium...’ (341r–342r); notes of geometry (342r–343v); notes on Thomas Bradwardine’s *Geometria speculativa* (343v–346r); ‘Vögelin scribebat et inveniebat. Progressionum summas cupienti scire quaedam...’ (347r–349r); diagrams and notes of geometry and optics (351r–360v); comm. on Melanaus’s *Spherica* ‘Omnis trianguli ex arcibus circulorum magnorum super superficiem... Expletus est translatus tertius libri Milei de sphericis et cum eius expletione completus est totius liber eius’ (361r–378v); ‘Exempla super algorithmum de surdis’ (379r–381r); ‘Hec infrascripta scholia pertinent ad Mileum’ (381v–382r, cf. 361r–378v above); ‘De aliquibus speciebus cubicorum...’ (382r–382v); ‘Ars binomalis. Divisiones linearum ponere...’ (382v–384v); ‘Compositio instrumenti quo ad veram coniunctionem Solis et Lunae’ (385r–385v). Blank: 1v, 36v–37r, 66v–67v, 91, 124–129, 185v–198v, 230v, 247r, 270v, 281v–282v, 285–286v, 339v, 346v, 349v–350.

Bibl. *TCMS*, IV, 82–85; Björnbo 1902, 146; A. A. Björnbo, C. S. Petersen, *Der Däne Claudius Claussøn Swart (Claudius Clavius). Der älteste Kartograph des Nordens, der erste Ptolemäus-Epigon der Renaissance*, Innsbruck, 1909, 45–47; Unterkircher 1969–1976, IV.1, 51; Hughes 1981, 44; Franz 1988, 81.

92r–100v ‘Tractatus de quantitate trium solidorum. Capitulum primum de distantia Lunae a terra. <Q>uia tria corpora solida particularium — quia quod modicum distat nihil distare videtur. Explicit tractatus de quantitate trium solidorum corporum secundum sententiam Ptolomei in Almagesti anno 1520 in die animarum.’

= **Johannes Andree Schindel**, *Tractatus de quantitate trium solidum* (C.1.15). A few marginal notes by the scribe (Vögelin).

- 302r–305v ‘Thebit praecognitiones Almagesti. Thebit ben Corah De hiis quae indigent expositione antequam legatur Almagesti. Aequator diei est circulus maior qui describitur supra 2 polos mundi — propinqui oppositioni Solis erunt retrogradi. Explicit Thebit De hiis quae indigent expositione antequam legatur Almagesti, et dicitur Aequator diei.’
= **Thebit Bencora**, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Vienna, Österreichische Nationalbibliothek, 5288

s. XV² (1461, cf. colophon). **Or.:** copied by one Johannes Peczolt (cf. colophon).

Paper, 287 f., a single neat hand, reserved initials throughout.

Ptolemaica (single text). Table of chapters by a contemporary hand (286v–287v). Blank: 280v–286r.

Bibl. *TCMS*, IV, 87; Unterkircher 1969–1976, III.1, 160.

- 1ra–280rb ‘Egidius de Thebaldis [upper margin, hand of the scribe]. Incipit comentum Haly super Quadripertitum Ptholomei. <S>cire et intelligere gloriosum est quia omnis sciencia est a Deo... (2ra) Tractatus glose Haly Abenrudiani super prima parte libri Quadrip<er>titi Ptolomei Pheludiani. <V>erba que dixit sapientissimus Ptolomeus in arte iudiciorum astronomie... (5va) Capitulum primum primi tractatus libri quatuor parcium Ptolomei Pheludiani. <R>es, o Mizori, quibus perficiuntur prenosticationes accepte de astronomia maiores et nobiliores sunt due — (272rb) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Et sic est finis. (272va) <V>olo in hoc loco dare tibi exemplum trium nativitatum ut melius intelligas quicquid locuti sumus in eis, et prima est nativitas mea — (279vb) hec sunt que tibi glozavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Deo gracias. Et sic est finis illius libri. (280ra) Pars fortune 19.47 Arietis, pars telati 26.33 Scorpionis — Explicit Quadrip<er>tium Pto<lome>i cum commento Haly, cum nativitatibus tribus et figuris, per me Iohannem Peczolt anno domini 1461.’

= **Haly Abenrudian**, *Glosa super Quadripartito Tholomei* (C.2.2). Translator’s preface, 1ra–2ra; Haly’s preface, 2ra–5va; I, 5va–79ra; II, 79rb–146rb; III, 146rb–224va; IV, 224vb–272rb; Haly’s appendix, 272va–279vb; additional section including a horoscope with incomplete planetary positions and a list of 20 parts with their positions, 280ra–280rb (same in MS ^ΓOxford, CCC, 101); colophon, 280rb. No glosses.

Vienna, Österreichische Nationalbibliothek, 5292

s. XVIⁱⁿ. **Or.:** University of Vienna; the Ptolemaic section (f. 1r–65v) is glossed by Johannes Vögelin and was copied by him in MS $\neg$ Vienna, ÖNB, 5273. **Prov.:** Vienna, Stadtbibliothek.

Paper, 317 f., several hands, one of which copied f. 1–65.

Astronomy, computus and mathematics: **Ptolemaica (1r–65v)**; ‘Canones Albionis per magistrum Ioannem de Regio Monte [Regiomontanus] compositi. In limbo prime faciei matris...’ (69r–77r); ‘Canones pro astrolabio magistri Ioannis de Regio Monte [Regiomontanus]. Verum locum Solis in dorso astrolabii...’ (77v–86r); Peurbach, *Canones pro compositione et usu gnomonis geometrici* (86v–93v); Regiomontanus, *De torqueto* (95r–103v); William of Conches, *Dragmaticon* (105r–156r), with diagram (157r); Ametus filius Josephi [Aḥmad ibn Yūsuf], *Liber de proportionibus et proportionalitate* (158r–179v); ‘Incipit tractatus de reprobationibus epiiclorum (!) et eccentricorum magistri Iulmami (?)’. Inest autem investigare volentibus pro opere bene...’ (180r–197v — this text differs from Henry of Langenstein’s *De reprobatione eccentricorum et epiiclorum*); ‘Autores calendarii nostri duo principaliter...’ (199r–209v); ‘Ad correctionem calendarii invente sunt tres vie...’ (210r–219r); John of Murs and Firminus de Bellavalle, *De correctione calendarii epistola ad Clementem VI papam* (221r–229v); Johannes de Thermis, *De tempore celebrationis paschalis ad Innocentium VI papam* (231r–242v); John of Gmunden, *Compositio quadrantis novi seu magni cum eius practica*, second part on uses (243r–257r); ‘Incipiunt utilitates quadrantis cursoris. Et primo de altitudinis Solis. Dicto de compositione quadrantis communiter dicendum est...’ (257v–258v); quadrant ‘Quoniam tota doctrina data in quadrante...’ (259r–264r); astrolabe ‘Verbi gratia, sit dares erecta perpendiculariter super superficiem...’ (264v–265v); ‘Compositio instrumenti lineae meridionalis. Instrumentum ad lineam meridianam...’ (272r–272v); Jordanus de Nemore (?), *De proportionibus* (274r–275v); ‘Omnium punctorum duorum in superficie rotundae pyramidis...’ (275v–276v); Euclid, *Data* (276v–281r); Blasius of Parma, *Demonstrationes in theorica planetarum* (281v–302r); Peurbach, *Fabrica et usus instrumenti pro veris coniunctionibus et oppositionibus Solis et Lune* ‘Cum animadvertissem quoddam instrumentum...’ (304r–305r), with note ‘Argumentum Solis habetur. Si aux Solis pro tempore...’ (305r–305v); Peurbach, *Theoricae novae planetarum* (306r–313v). Blank: 66–68, 94, 104, 156v, 157v, 198, 219v–220, 230, 266–271, 273, 302v–303v, 314–317.

Bibl. *TCMS*, IV, 88–89; Unterkircher 1957, 105; Roland 1999, 117–20; C. P. E. Nothaft, ‘The Chronological Treatise *Autores Kalendarii* of 1317, Attributed to John of Murs: Text and Introduction’, *CIMAGL* 82 (2013), 1–89: 29–30; C. P. E. Nothaft, ‘John of Murs and the Treatise *Autores kalendarii* (1317): A Problem of Authorship’, *SA* 99 (2015), 209–29: 214–15; Zepeda 2018, 66–67.

1r–65v ‘Omnium recte philosophantium verisimilibus coniecturis credibilibus argumentis — (53v) tenebrarum sic se habent. Explicit liber sextus. Deprehense sunt et prima quidem eclipsium fuit in XVIII^o anno Adriani cum verus locus Solis — omnibus sic constitutis LE lineabo in superficie circuli altitudinis.’ = ***Almagesti minor* (C.1.4)**. The section on f. 53v–65v corresponds to IV.12–V.13, which the scribe had skipped on f. 29r, where he left a note in the margin referring the reader to ‘in fine libri.’ This misplaced section matches up

with folio changes in Cracow, BJ, 1924, which was therefore the likely exemplar of the present MS. Marginal notes by the scribe and by Johannes Vögelin.

Vienna, Österreichische Nationalbibliothek, 5303

s. XVⁱⁿ (f. 291–359 copied in 1519–1520, cf. f. 307v, 351v and 359v). **Or.:** Vienna, f. 130r–279r are almost entirely copied from MS $\rightarrow$ Vienna, ÖNB, 5418, including the colophons bearing the dates 1433 and 1434 (f. 271v and 228r = Vienna 5418, f. 204v and 110r respectively). **Prov.:** Philipp Eduard Fugger (1546–1618).

Paper, II + 365 f., several contemporary hands.

Mathematics, optics and astronomy: table of contents, contemporary with the MS (Iv); Gerard of Brussels, *Liber de motu* (1r–10v); Johannes de Tinemue, *De curvis superficiebus* (11r–18v); ‘De quadratura circuli. Si circulo inscribatur quadratum...’ (18v–19r); Archimedes, *De mensura circuli* (19r–21r); ‘Demonstratio Ioannis de Chinemue [Johannes de Tinemue] de quadratura circuli. Sit circulus AC (?) quadrato inscriptus...’ (21v); Richard of Wallingford, *Quadripartitum*, beginning only and in a reworked version ‘Cognito sinu recto alicuius porcionis...’ (27r–31r); Pseudo-Euclid, *De speculis* (31r–31v); Euclid, *De visu*, ed. Witelo (?) (32r–41v); Blasius of Parma, *Demonstrationes in theorica planetarum* (51r–83v); Jordanus de Nemore, *De numeris datis* (87r–98r); ‘Nota de numero stadiorum uni gradui circuli maioris correspondentium. Eratosthenes attribuit uni gradui in circulo maiori 700 stadia...’ (98v); Peurbach, *Fabrica et usus instrumenti pro veris coniunctionibus et oppositionibus Solis et Lune* ‘Cum animadvertissem quoddam instrumentum...’ (99r–99v); ‘Compositio instrumenti lineae meridionalis. Instrumentum ad lineam meridianam...’ (100r–100v); Ibn Mu‘adh, *De crepusculis* (101r–106v); comm. on Peurbach’s *Theoricae novae planetarum* ‘Commentaria in theoricis planetarum a Georgio Peurbachio editas. De Sole primo ideo dicendum est...’ (107r–127v); John of Gmunden, *Compositio quadrantis novi seu magni cum eius practica*, attr. Prophatius Judeus (130r–168v); ‘Quoniam tota doctrina data in quadrante...’ (168v–177r); Prophatius Judeus, *Quadrans novus* (177v–198v); G. Marchio or Marchionis, *Tractatus super planitorbium*, last part (199r–223r); solar tables, mainly for Vienna, but also for Nürnberg, Prague, Venice and Rome (223v–227r); John of Gmunden, *Tractatus de compositione chilindri* (228r–242r); ‘Horologium concavum in dimidia spera...’ (242r–245v); ‘Habito vase interius rotundato...’ (246r–246v); Georgius of Neuburg, *Tabula linearum pro horis inequalibus* (247r); ‘Incipit alia compositio chilindri. Investigantibus chilindri dispositionem quod dicitur horologium viatorum...’ (247v–250v); ‘Confectio horologii contra murum...’ (251r–253r); ‘Incipit compositio organi Ptolomei. Organum Ptolomei ita fit: Fiat in lamina circulus ABCD...’ (253v–255v); **Ptolemaica (256r–259r)**; ‘Compositio instrumenti lineae meridionalis. Instrumentum ad lineam meridianam...’ (259r–260v); ‘Sequitur compositio alterius instrumenti. Instrumentum ad capiendum altitudinem Solis et stellarum...’ (260v–261v); ‘Regule magne Ptolomei. Instrumentum ad capiendum altitudinem Solis et stellarum...’ (261v–263r); ‘Ad faciendum horologium horarum inequalium...’ (263v–268v); ‘Incipit compositio chilindri m<agistri> Jo<hannis> Schindel [Johannes Andree Schindel]. Chilindrum, quod est horologium viatorum dicitur...’ (269r–271v); ‘Hoc instrumento sic uteris dum altitudinem Solis...’ (271v–272v); drawings of an ‘horologium murale’ (273r–273v); *Liber theoreumacie*, Book IV ‘Horologium achab collocare sicut in Almagesti primi libri capitulo

primo Ptolomeus testatur...’, incomplete (274r–276v); ‘Sequitur de quadrato geometrico componendo...’ (276v–279r); ‘Compositio directorii. Accipe tabulam planam super cuius extremitatem fac circulus...’ (279v–283v); ‘Horologium murale ad meridiem. Si volueris facere horologium murale...’ (283v–285v); ‘Horologium horizontale. Si volueris facere horologium horizontale...’ (285v–286r); drawings of two quadrants (288r and 289r); Richard of Wallingford, *Tractatus Albionis* (291r–359v). Blank: Ir, II, 22–26, 42–50, 84–86, 128–129, 227v, 286v–287v, 288v and 289v (except for unfinished drawings), 290, 360–365.

Bibl. *TCMS*, IV, 93–94; Unterkircher 1957, 105; Clagett 1964–1984, I, xxii; North 1976, II, 32 and 39; Unterkircher 1969–1976, IV.1, 52; Hughes 1981, 36–38; Clagett 1964–1984, V, 62; Franz 1988, 82–83; C. Eagleton, *Monks, Manuscripts and Sundials. The Navicula in Medieval England*, Leiden-Boston, 2010, 265–66; Zepeda 2018, 74.

256r–259r ‘Maxima<m> declinationem per instrumenti artificium et considerationem reperire. Paratur itaque lamina quadrate forme — (257v) et magis visui quam auditui credendum. (258r) Locum stelle secundum longitudinem et latitudinem artificio instrumenti deprehendere. Queruntur primum due armille — vicinior vero est consideracio. Explicit compositio et utilitates armillarum.’

= *Almagesti minor* (C.1.4), I.15 and V.1. No glosses.

Vienna, Österreichische Nationalbibliothek, 5311

s. XIV² (at least partly copied in 1356, cf. 100rb: ‘Explicit in Dei nomine hic liber finitus anno domini 1356^o ydus Septembris, scilicet 13 die, in locis multis incorrectus’). **Or.:** Rhineland (Lindberg), Austria? (Unterkircher). **Prov.:** perhaps Philipp Eduard Fugger (1546–1618).

Paper, 138 f., one main hand (Pedersen, several hands acc. Unterkircher).

Astronomy, astrology, arithmetic and optics: drawings of astrolabe (1r–4v); comm. on Pseudo-Thebit Bencora’s *De motu octave spere* ‘Vis motus et maxime corporum celestium...’ (5ra–13vb, with end of text repeated f. 17ra); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (18ra–18vb); *Ptolemaica* (18vb–21ra); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportione terre* (21ra–22ra); Peter Peregrinus of Maricourt, *Nova compositio astrolabii particularis* ‘Incipit tractatus astrolabii particularis. Nostra presens intentio est artem dicere...’ (22rb–33ra); *Ptolemaica* (33ra–34vb); Azarchel, *Saphea*, tr. Johannes Brixiensis and Prophatius Judeus, second part and incomplete (34vb–35ra); Azareus, *De lapidibus*, attr. Ptolemy ‘Incipit liber Ptolomei de lapidibus pretiosis et sigillis eorum...’ (35rb–35vb); lapidary ‘Inquit liber continens veterum narrationes: Omnis creatura in peccato primi hominis...’ (35vb–37ra); Hermes, *Liber de quindecim stellis* (37ra–40va); Hermes/Enoch, *Liber imaginum signorum*, attr. Arnold of Villanova (40va–41vb); John of Seville (?), *Sigillum Leonis* (41vb); Guillelmus Anglicus, *Astrologia* (42ra–52v); comm. on the canons of Toledan tables (53ra–61rb); Peter Peregrinus of Maricourt, *De magnete* (61va–63vb); ‘Incipit tractatus in compositionem et utilitates instrumenti directionis. Accipe tabulam planam super cuius extremitatem...’ (63vb–65rb); Franco de Polonia, *Tractatus de turketo* (65va–66vb); ‘Ex quatuor disciplinis universaliter consistit...’ (67ra–72vb);

‘Ut certius operemur in qualibet specie algorismi...’ (72vb–73va); ‘Incipit algorismus de minutiis... Cum minor quantitas aliquotiens sumpta...’ (73va–80va); Campanus of Novara, *Theorica planetarum* (81ra–100rb); Roger Bacon, *De multiplicatione specierum*, excerpts (101ra–105vb); excerpts of optics from Roger Bacon and Alhazen ‘Nota quod secundum Rogerum Bacon in naturali philosophia...’ (105vb–107rb); Roger Bacon, *De speculis comburentibus* (108ra–113vb); Johannes Peckham, *Tractatus de perspectiva* (114ra–123va); astronomical figures of planetary models and Campanus’s instruments (123vb–127r); excerpts on fixed stars from *Almagest* with comparison with Geber ‘Memoriale considerationum quas fecerunt antiqui de locis stellarum et equalitatum et conversionum et augium in temporibus diversis prout ex Almagesti collectionem seu excerptum est. Consideratio tropici estivi diversis temporibus...’ (128ra–129rb); five star tables (129v–131r), with added notes giving the precessional increment for 1428 (130r and 131r); two tables of coordinates of cities, with canon (131v–132r); table of eras, with canon (132v–133va); notes on astronomical tables (133va–136vb), including on finding the great conjunctions with mention of the year 1344 (135^{bis}v); astronomical observations for 1305–1306 in Bologna, Montpellier and Genoa mentioning ‘magister Iohannes de Luna Theutonicus’ (137ra–137rb); ‘Incipiamus cum Dei auxilio de hiis tractare que fieri possunt Sole existente in quolibet signo...’ (137va–138va); ‘Notandum secundum intentionem magistri Thome Anglici in impressione figurarum 12 signorum...’ (138va); table of contents of the MS, 15th c. (138vb). Blank: 14 and 16 (f. 15 is missing), 17v, 100v, 107v, 127v.

Bibl. TCMS, IV, 98–99; Unterkircher 1957, 105; Unterkircher 1969–1976, I.1, 77; Benjamin/Toomer 1971, 98; D. C. Lindberg, *Roger Bacon’s Philosophy of Nature. A Critical Edition, with English Translation, Introduction, and Notes of De multiplicatione specierum and De speculis comburentibus*, Oxford, 1983, LXXVIII and LXXIX; Franz 1988, 106; Pedersen 2002, I, 184–85.

18vb–21ra ‘Incipit liber introductionum Thebit in Almagesti Ptolomei et dicitur liber diffinitionum. Equator diei est circulus maior qui describitur super duos polos orbis — propinqui oppositioni erunt retrogradi. Explicit liber introdu/21ra/ctionum Thebit Benthorach in Almagesti Ptolomei qui liber diffinitionum dicitur.’

= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses. A few corrections by the scribe.

33ra–34vb ‘Incipit liber de compositione astrolabii universalis qui dicitur Ptolomei, quod vix credo. Quoniam in mundi spera est motus perfectus et imperfectus — quia una eademque utrique convenit dicemus ad plenum. Explicit tractatus Ptolomei de compositione astrolabii universalis translatus a Roberto Castrensi in civitate London<ie> ex Arabico in Latinum, era M^o185^o.’

= **Pseudo-Ptolemy, *Liber de compositione universalis astrolabii* (B.2)**, opening with the last paragraph of the preface. No glosses.

Vienna, Österreichische Nationalbibliothek, 5392

s. XVI¹ (for f. 1–239; 15th c. for f. 241–413). **Prov.:** Vienna, Stadtbibliothek.

Parchment, 416 f., composite MS made of two main parts, the first of which (f. 1–239) was copied by three hands (I: f. 1r–4v, 8r–29v, 39r–220r and 228r–231v; II: f. 5r–7r, 30r–38v and 223r–225v; III: f. 233r–239r).

Astronomy and astrology: **Ptolemaica (1r–225v)**; Hypsicles, *De ascensionibus* (228r–231v); **Ptolemaica (233r–237r)**; Thebit Bencora, *De recta imaginatione spere et circularum eius diversorum* (237r–239r); Albumasar, *Introductorium maius*, tr. John of Seville (241r–345v); Albumasar, *De magnis coniunctionibus* (346r–413v). Blank: 7v, 220v–222v, 226–227, 232, 239v–240v, 347, 414–416.

Bibl. *TCMS*, IV, 114–15; Unterkircher 1969–1976, III.1, 77; Lemay 1995–1996, IV, 137–38.

1r–225v ‘Geber. Liber primus. Verba Gebri filii Affla Hispalensis. Scientia species habet quarum melior post scientiam — (218r) sunt digniores ut evanescant et destruantur, et illud est propositum. Finis noni ultimi librorum. Τέλος. Nota in figura tredecima libri primi Geber quod arcus AG subtensus recto potest esse — (219r) sit maior quarta circuli et quod uterque sit minor, sed Geber. Nota in figura decima quarta septimi libri Geber quod centrum orbis signorum potest esse infra triangulum — ad dyametrum circuli ABG quod proponebatur. (223r) Annotationes in Gebrum. Textus fo. 1. Et de eis. Prima difficultas propter narrationem prachticae et theorice — orbe signorum aliud est tosus (?) meridiem ab eo.’

= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1r–4v; I, 4v–29r; II, 29r–57r; III, 57r–67v; IV, 67v–90v; V, 90v–123r; VI, 123r–154r; VII, 154r–186r; VIII, 186r–198v; IX, 198v–218r; appendix, 218r–220r (half of f. 220r and f. 220v–222v are blank); additional notes, 223r–225v. Marginal corrections and notes by scribe II, who also copied f. 223r–225v.

233r–237r ‘Thebit praecognitionis Almagesti. Thebit ben Corach de hiis quae indigent expositione antequam legatur Almagesti. Aequator diei est circulus maior qui describitur super 2 polos mundi — aut propinqui oppositioni Solis erunt retrogradi. Explicit Thebit de hiis quae indigent expositione antequam legatur Almagesti, et dixit Aequator diei.’

= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1)**. No glosses.

Vienna, Österreichische Nationalbibliothek, 5414

s. XV¹ (1447 for f. 14–97, cf. 97rb, and probably for the whole MS, copied in the same hand; a second hand made corrections and additions throughout, at least partly in 1448, as stated on f. 97rb). **Or.:** Vienna, cf. f. 97rb: ‘Explicit Leupoldus de Austria anno domini 1447 scriptus Wiennē’ (the second hand added ‘in Wyenna’ in the margin) and added **Prov.:** Vienna, Stadtbibliothek.

Paper, I + 208 f. (new foliation in pencil), one main neat hand (with corrections and additions by a second hand), many reserved initials.

Astrology: incomplete table of contents (Ir); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, excerpt 'Ludit circulo signorum divisio que Ipse dividitur...' (1ra–10rb); Leopold of Austria, *De astrorum scientia* (14ra–97rb); added notes on eclipses 'Qualiter eclipsis ventura in anno aliquot mutat...' (97va–97vb); Zael, *Liber iudiciorum* (99ra–132va, *Introductorium*, *Quinquaginta precepta* and *De interrogationibus*); Gergis, *De significatione septem planetarum in domibus* (133ra–136rb); **Ptolemaica (136va–136vb and 136vb–137rb)**; 'Scientia astrorum dividitur in duo, in demonstrationes que sunt certe et sine errore...' (137vb–147vb); *Liber de significatione cometarum* (148ra–163rb); 'Nota hec 50 precepta. De 50 preceptis in omni questione et negotio...' (163va–165va, this text is not related to Zael's *Quinquaginta precepta*); 'Et si fuerit ascendens domus vel exaltatio alienus...' (166va–167rb); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, excerpts from Books VI and V (169ra–208vb). Blank: Iv, 10v–13v (except added notes f. 13r), 98, 166r, 167v–168v.

Bibl. *TCMS*, IV, 119–20; Roland 1999, 128–29.

- 136va–136vb ' <P>tholomeus dicit quod stelle cum caudis sunt novem — in regibus et divitibus apparebit.'
= **Pseudo-Ptolemy, *De cometis* (B.4)**. A couple of corrections and one marginal note by the second hand.
- 136vb–137rb 'De hora conceptionis et nativitatis. Dixerunt Ptholomeus et Hermes quod locus Lune in hora — et hoc expertus fuit multociens.'
= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**. The text is followed, without a break (137rb–137va), by a chapter dealing with the same topic: 'De mora nati in utero matris. Cum Luna fuerit in gradu ascendenti hora infusionis — gradum Arietis pervenerit fetus nascetur. Idem est in aliis.' No glosses.

Vienna, Österreichische Nationalbibliothek, 5417

s. XIV^{med}. F. I–27 were glossed in 1360 (cf. f. 27v: 'Complevi has glosas anno domini 1360 incompleto in die exaltationis Sancte Crucis') and this date also matches the eclipse tables for 1361–1386 and 1357–1367 on f. 123v. Some parts of the MS might be slightly earlier, including f. 75–89, which open with the horoscope for the enthronement of Ubertino da Carrara as lord of Padua on 10 March 1338. Ubertino da Carrara died in 1345, after which date copy or preservation of this horoscope would make little sense. **Or.:** northern Italy. **Prov.:** 'Liber magistri Brunonis (?) de Ludosia (?). Hunc librum dedit... pro libreria fratrum... in Wiennē' (f. Iv, 15th c.); Vienna, Stadtbibliothek (ex-libris f. Ir).

Parchment (f. I–27) and paper (f. 18–38), I + 128 f. (foliated 1–59 and 70–138), several hands. The two Ptolemaic sections are each being copied by one hand not found elsewhere in the MS.

Astrology, geometry and astronomy: horoscope of interrogation for a sick person dated 1392 (inner front cover); Alcabitius, *Introductorius* (Iv–27r); table of terms (27r); John of Saxony, comm. on Alcabitius's *Introductorius* (28ra–55vb); 'Dixit Kamkaf Yndus quod initium orbis fuit ante que fuit incicium anno diluvii...' (55vb); Euclid, *Elementa*, ed. Campanus of Novara

(56r–74v); horoscope (empty) for the enthronement of Ubertino da Carrara as lord of Padua on 10 March 1338 (75r); **Ptolemaica (75va–89vb)**; ‘Quomodo fuit proposita disputanda utrum poli mundi moveantur...’ (90ra–90vb); Alfraganus, *De scientia astrorum*, tr. John of Seville (91r–109r); astronomical notes, tables and diagrams (109r–112r); **Ptolemaica (113ra–121va)**; Messahallah, *Epistola de rebus eclipsium* (121vb–122vb); ‘Architenens, Aries, Leo primam triplicitatem...’ (122vb); end of a table of houses, Sagittarius to Pisces (123r); tables: solar eclipses 1361–1386 and lunar eclipses 1357–1367 (123v); astronomical notes, tables and diagrams (123v–124v); *Theorica planetarum Gerardi* (125r–129v); Robertus Anglicus, *Quadrans vetus* (130ra–131vb); astronomical tables (132r–132v); Hermann of Carinthia, *Liber imbrium* (133ra–134va); Messahallah, *Liber interpretationum*, beginning only (134va–135ra); text on colours (135ra–135rb); chapter on the stars of the 12 signs (135rb); astrological notes at least partly derived from Guido Bonatti’s *Liber introductorius ad iudicia stellarum* ‘Consideratio septimi Guidonis est ut aspicias aliam rem occultam...’ (135va–136rb); ‘Arcum diurnum transactum ab orbi polis vel ab ortu stelle...’ (136va–138vb). Blank: Ir, 27v (except note), 112v.

Bibl. *TCMS*, IV, 120–21; Zinner 1964, 31; Unterkircher 1969–1976, I.1, 80; Roland 1999, 132–33.

- 75va–89vb ‘Liber primus. Capitulum primum in colectione intellectus scientie iudiciorum astrorum (chapter index)... (76ra) 9. Aries. Prima pars. Proprietas et virtutes stellarum in vertice Arietis existentium est similis virtuti Saturni et Martis cum sunt simul — iam autem rebus nativitatum cum libri complemento terminum imponamus. Ut radiorum projectionem invenias, quere distanciam — est locus radiationis equate.’
= **⟨Epitome in Quadripartitum (I)⟩ (C.2.4)**. Chapter index of the four books, 75va–75vb; Book I, 76ra–78ra; II, 78ra–81rb; III, 81rb–86vb; IV, 86vb–89vb; Pseudo-Ptolemy’s *Liber projectionis radiorum stellarum* (B.6), 89vb. A few marginal notes by the scribe.
- 113ra–121va ‘Mundanorum ad hoc et ad illud mutatio corporum celestium mutatione... Scientia namque astrorum ex te et illis est... Scientia stellarum ex te et illis est. Astrologus non debet dicere rem specialiter sed universaliter... Quod dixit Pto<lome>us, ex te et illis, significat quod qui res futuras prenoscere desiderat — (121rb) et quanto melius quivimus exposuimus. Ptolomeus in hoc loco tricas et tricarum nomina posuit... Stelle cum caudis sunt novem — in regibus et divitibus apparebit. Explicit Centiloquium Ptholomei.’
= **Abuiafar Hamet filius Joseph, ⟨Commentum in Centiloquium⟩, ‘Mundanorum’ version (C.3.1.3)**. The text includes Pseudo-Ptolemy’s *De cometis* (B.4) as the last chapter on f. 121rb–121va (see below). A few marginal notes apparently by another hand.
- 121rb–121va ‘Ptolomeus in hoc loco tricas et tricarum nomina posuit... Stelle cum caudis sunt novem — in regibus et divitibus apparebit.’
= **Pseudo-Ptolemy, *De cometis* (B.4)**, as part of the *Centiloquium* (see above). No glosses.

Vienna, Österreichische Nationalbibliothek, 5418

s. XV¹ (1433–1434, cf. f. 24v: ‘Explicit compositio quadrantis Prophacius Iudei 1434^o’; f. 110r: ‘Explicit tractatus quadrantis planitorbii editus a fratre G. Marchionis ordinis fratrum minorum, tunc studente Parisius pro provincia Aquitanie, finitus anno Christi 1434^o’; f. 124r: ‘Explicit tractatus quadrantis eiusdem Iohannis de Monte Pessulano, finitus anno Christi 1434^o...’; f. 204v: ‘...et sic completur chilindri compositio 1433^o corrente’). **Or.:** Austria (Vienna or Klosterneuburg acc. Roland), copied by Reinardus Gensfelder of Nürnberg, who also copied MS →Munich, BSB, Clm 56. **Prov.:** Vienna, Stadtbibliothek (f. 2r).

Paper, 220 f., a single hand (except for f. 165r and 173–78).

Astronomical instruments: table of contents (inner front cover); John of Gmunden, *Compositio quadrantis novi seu magni cum eius practica*, attr. Prophatius Judeus (4r–45r, preceded by unfinished drawings of a quadrant on f. 3r–3v); ‘Quoniam tota doctrina data in quadrante...’ (47r–54v); astrolabe ‘Verbi gratia, sit dares erecta perpendiculariter super superficiem...’ (54v–56v); Prophatius Judeus, *Quadrans novus* (59r–78v); G. Marchio or Marchionis, *Tractatus super planitorbium*, last part (80r–110r); Robertus Anglicus, *Quadrans vetus* (111r–124r); ‘Si volueris scire aream trianguli equilateri...’ (124v–126v); John of Gmunden, *Tractatus quadrantis* (128r–144v); John of Gmunden, *Tractatus de compositione chilindri* (146r–164v); ‘Horologium concavum in dimidia spera...’, in another hand (165r); table: ‘Tabula linearum pro horis inequalibus...’ (167v); ‘Incipit alia compositio chilindri. Investigantibus chilindri dispositionem qui dicitur horologium viatorum...’ (168r–172r); ‘Confectio horologii contra murum...’, in another hand (173r–178v); ‘Incipit compositio organi Ptolomei. Organum Ptolomei ita sit: Fiat in lamina circulus ABCD...’ (180r–183r); **Ptolemaica (184r–189v)**; ‘Compositio instrumenti linee meridionalis. Instrumentum ad lineam meridianam...’ (192r–193r); ‘Sequitur compositio alterius instrumenti. Instrumentum ad capiendum altitudinem Solis...’ (193r–193v); ‘Regule magne Ptolomei. Instrumentum ad capiendum altitudines Solis et stellarum...’ (194r–195v); ‘Ad faciendum horologium horarum inequalium...’ (196r–202r); ‘Incipit compositio chilindri m<agistri> Jo<hannis> Schindel [Johannes Andree Schindel]. Chilindrum, quod est horologium viatorum dicitur...’ (202r–204v); ‘Hoc instrumento sic uteris dum altitudinem Solis...’ (205v–206r); drawings of an ‘horologium murale’ (207r–207v); *Liber theoreumacie*, Book IV ‘Horologium achab collocare sicut in Almagesti primi libri capitulo primo Ptolomeus testatur...’, incomplete (209r–211v); ‘Sequitur de quadrato geometrico componendo...’ (213r–217r). Blank: 1–2 (except for fainted text f. 1v), 45v–46v, 57r–58v, 79, 89v, 110v, 127, 145, 165v–167r, 172v, 179, 183v, 190–191, 205r, 206v, 208, 212, 217v–220.

Bibl. TCMS, IV, 121; Unterkircher 1957, 106; Unterkircher 1969–1976, II.1, 177; Roland 1999, 134–37; C. Eagleton, *Monks, Manuscripts and Sundials. The Navicula in Medieval England*, Leiden-Boston, 2010, 265; Zepeda 2018, 73–74.

184r–189v ‘Maximam declinationem per instrumenti artificium et considerationem reperire. Paritur itaque lamina quadrate forme — (185v) et magis visui quam auditui credendum. (187r) Locum stelle secundum longitudinem et latitudinem artificio instrumenti deprehendere. Queruntur primum due

armille — vicinior vero est consideracio. Explicit composicio et utilitates armillarum.’

= *Almagesti minor* (C.1.4), I.15 and V.1. F. 186r contains an unfinished drawing of the instrument. F. 186v and 188 are blank. No glosses.

Vienna, Österreichische Nationalbibliothek, 5496

s. XV, except f. 38–54 added by Schöner. **Or.:** f. 58v–66r perhaps copied by Regiomontanus (Zinner). **Prov.:** Regiomontanus; Johannes Schöner, who copied f. 38–54; Philipp Eduard Fugger (1546–1618).

Paper, I + 66 f., four hands (f. 1–11, 14–36, 38–54 and 58v–66r).

Astronomy: astronomical diagram, added in 1520 (Ir); *Ptolemaica* (1r–11v); Regiomontanus, *De torqueto* (14r–30r); Regiomontanus, *Canones astrolabii armillararis* ‘Astrolabium armillare quo Ptolemaeus plurimum usus est...’ (35r–36v); reworking of Richard of Wallingford’s *Tractatus Albionis* (38r–54v); Regiomontanus (?), ‘Zafea est sphaera proiecta in planum...’ (58v–66r). Blank: Iv, 12–13, 30v–34v, 37, 55r–58r, 66v.

Bibl. *TCMS*, IV, 136; Unterkircher 1957, 106; Franz 1988, 84–85; Zinner 1990, 212 (no. 45); Maruska 1993, 425; Maruska 2008, 105–06.

1r–11v ‘Prologus in planisperium Ptholemei [title in upper margin, hand of the scribe]. Quemadmodum Ptholemeus et ante eum nonnulli veteris auctoritatis viri antiquas seculi scribunt historias... (2r) Planisperium Ptol<eme>i, capitulum primum. Cum sit possibile, Iesuri, et plerisque necessarium ut in plano representantur circuli in speram corpoream incidentes — (10r) cum ipsis circulis tropicis et cum circulis meridianis signa distinguuntibus. Si a termino unius diametri circuli recti — per polum zodiaci transire necesse est vel habet.’
= **Ptolemy, *Planispherium*, tr. Hermann of Carinthia (A.6.1)**, Class I. Translator’s preface, 1r–2r; text, 2r–10r; *Propositiones planisperii*, 10r–11v. No glosses.

Vienna, Österreichische Nationalbibliothek, 5498

s. XV (table of conjunctions 1444–1643 f. 46v).

Paper, I + 70 f., three hands (I: f. 1–30; II: 31–46r and 47–70; III: f. 46v).

Astrology and arithmetic: table of contents, early modern hand (Ir); Matheus de Guarimbervis, *De directione et proiectione radiorum et aspectuum* (1r–30r); ‘Sicut in integris septem sunt species algorismi...’ (31r–46r); table of conjunctions 1444–1643, with notes (46v, added); *Ptolemaica* (47r–52v); *Astronomia Ypocratis* (53r–59v); Pietro d’Abano, *De motu octave sphere* (60r–70v). Blank: Iv, 30v.

Bibl. *TCMS*, IV, 136.

- 47r–52v ‘Aequator diei est circulus maior qui describitur super duos polos orbis — aut propinqui oppositioni erunt retrogradi. Τελος. Thebit libellus finit de his que exponuntur antequam legatur Almagesti.’
= **Thebit Bencora, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1).** Gloss by another hand quoting Campanus f. 51v.

Vienna, Österreichische Nationalbibliothek, 5503 [Plate 22]

s. XVIⁱⁿ (copied in 1506 for f. 61r–101v and 115r–115v, cf. colophon; the rest of the MS was copied between 1504 and 1507, cf. f. 109v, 117r, 117v, 177r and 187v; f. 196r–199r copied in 1519). **Or.:** copied by Johannes Schöner, partly on the basis of texts he received from Laurentius Beheim (cf. f. 101v, 115v, 117r, 177r). **Prov.:** Conrad Gesner; Philipp Eduard Fugger (1546–1618).

Paper, I + 201 f., a single neat hand.

Astrology: table of contents (1r); Johannes Schöner (?), astrological tables, diagrams and notes (5r–32r), including table for the ruling planet for each degree of each sign of the zodiac (5r–10v), summary table of the same (11r), other tables for planets, signs and houses, with canons (11v–13v); parts of the 12 houses (14r–18r), parts of the 12 signs (18v), conditions of the planets (20r–28v); table for profections (28v) and directions (29r–33r); treatise on nativities ‘Nativitas est quadruplex, et primo eius que mortuus...’ (33r–56v, a note in the upper margin of f. 33r attributes the text to Domenico Maria Novara: ‘Tractatus nativitatum Domenici Maria’ and another note in the right margin reads: ‘Ista sequentia in nativitatibus sunt Ptholomey abbreviature (!) que multum naturaliter et philosophice processit’); **Ptolemaica (61r–101v)**; George of Trebizond, *Liber de antisciiis et cur astrologorum iudicia plerumque fallant* (102r–109v); **Ptolemaica (110r–114v and 115r–115v)**; Petrus de Arieto (?), ‘Ordo et regula in iudicando super nativitatibus hominum est talis. Magister Petrus N. Primo inspiciendus est introitus Solis in Arietem anni precedentis...’ (116r–117r); ‘Generale iudicium in revolutionibus nativitatum. Si fortune fuerint fortes...’ (117v); tables: ‘Tabula revolutionis pro horis’ and ‘Tabula revolutionis pro gradibus’ (118v); Lorenzo Bonincontri, *De revolutionibus nativitatum* (119r–160v); Laurentius Beheim, *Directionum significata* (174r–177r); Girolamo Manfredi, *Centiloquium de infirmis et medicis* (178r–187v); *Astronomia Ypocratis* (188r–193v); ‘Capitulum in crisi infirmitatis. Vide die...’ (194r); table of 28 lunar mansions (194v); ‘De creticis diebus. Septimus dies in egritudine est fortis...’ (195r–195v); ‘Ascendens et tempus verum nativitatis invenire. Tempus nativitatis hic (?) propositum pro tempore in diebus equatis...’ (196r–199v, a note in the upper margin attributes the text to Domenico Maria Novara: ‘Domenicus Maria de mora nati’). Blank: Iv, 1v–4v (except six verses f. 4r), 19r–19v, 57r–60v, 118r, 161r–173v, 177v, 199v–201v.

Bibl. *TCMS*, IV, 138–39; Zinner 1964, 31; Unterkircher 1969–1976, IV.1, 52–53; Monfasani 1984, 76–77; Franz 1988, 85; Maruska 1993, 426; Lemay 1999, I, 410–11; Maruska 2008, 106–07.

- 61r–101v ‘Liber Claudii Ptholomei qui vocatur fructus ad illustrissimum Alfonsum regem Arrogonum et utriusque Siciliae a Georgio Trapenzuntio ex Graeco in Latinum versus. Librum Claudii Ptholomei mihi Alfonse rex inclite traductum quem vulgo Centiloquium ipse fructum appellat... (62r) Iam

pridem perutiles ad providendum operationes stellarum, o Scire, quos in hoc composito efficiunt mundo exposuimus... (62v) Primus aphorismus. Abs te et a scientia, non est enim possibile ut huius scientie professor particulares rerum ydeas provideat — (68r) Sin vero non moventur hostis indigena erit. (68v) Commentarii et expositiones Georgii Trapezuntii in aphorismis libri fructus Ptholomei ad Alfonsum regem Arrogonum et utriusque Sicilie. Libellus hic quem de Greco traductum nomini tuo dedicavimus, illustrissime rex... (69r) Incipit expositio aphorismorum. Abs te et a scientia. Abs te, inquit, hoc est a quadam insita vi animi et ingenio et a scientia nature stellarum precognitio fit — ut sicut raro apparent, sic inconsueta significare videantur. Scripsi anno 1506 in Augusto in apparitione comete. A doctore Lau<rentio> Behem.'

= **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**. George of Trebizond's preface, 61r–62r; author's preface, 62r; text, 62v–68r; commentary, 68v–101v. A few marginal notes by Schöner. A smaller piece of paper, inserted between f. 87 and 88, contains two horoscopes for the nativity of George of Trebizond and the revolution of that nativity for 1453.

110r–114v 'Ioviani Pontani expositio in verbum 51 Centiloquii Ptholomei. Circulum geniture in exitu nati ab utero secundum verbum 51 sic extrahitur. Primum ad tempus datum inveniatur locus Solis cum quo erigatur celi figura ad quam imponatur locus Lune verus — maxime ubi Luna dignitatem ilechyam vendicaverit sibi. Τέλος' (followed by tables f. 111r–114v).

= **Pseudo-Giovanni Pontano, *Expositio in verbum 51 Centiloquii Ptholomei* (C.3.19)**. No glosses.

115r–115v 'Andeolus de Nigro Ianuensis de infusione spermatis (super verbo Centiloquii 51). Dixerunt Hester, Ptholomeus et Hermes quod cum Luna tempore infusionis spermatis est in ascendente — est alchocoden mutatur mora ut capitulo alchocoden dicitur. A doctore Lau<rentio> Behem anno 1506 in Septembro.'

= **Andalo di Negro, *De infusione spermatis* (C.3.5)**. No glosses.

Vienna, Österreichische Nationalbibliothek, 10534

s. XVIⁱⁿ (1519 for the first Ptolemaic section, see colophon; most of the MS appears to have been copied in 1519–1520, cf. e.g. f. 23v–25v, table 1520–1536 f. 34v; table 1521–1532 f. 110r; directions for 1520 f. 141r; f. 155–169 copied in 1520, cf. f. 169v: 'Explicit Quadripartiti Ioannis Hispalensis 1520'). **Or.:** perhaps Nürnberg: the author discusses his own nativity of 6 April 1464, f. 287r–293r, and includes a table of directions for latitude 49°, f. 292v; another table for latitude 49° occurs f. 263v; Johannes Werner's name appears three times f. 151v, 248v and 260r (Maruska suggests that the MS belonged to Werner until his death in 1522). **Prov.:** Johannes Schöner, who copied a short table of contents on the inner front cover, f. 251v–259v and 260v–261r; Philipp Eduard Fugger (1546–1618).

Paper, 297 f., one main hand, with intervention of other hands in several places.

Astrologer's handbook made of texts and excerpts (from a large number of authorities), notes and calculations of all kinds, difficult to read and to collate. Recognisable items include: prognostication for 1519 (23v–25v); **Ptolemaica** (44r–61r); *Astronomia Ypocratis* (62r–64r); Girolamo Manfredi, *Centiloquium de infirmis et medicis* (72r–75v); Michael de Wielen [Wieluń], judgement on the eclipse of 1478 (78r–80v); George of Trebizond, *Liber de antisciiis et cur astrologorum iudicia plerumque fallant* (124r–124v); Albohali, *De nativitatibus*, tr. Plato of Tivoli (125r–131v); Johannes de Glogovia, *Tractatus de nativitatibus* (135r–137v); Pseudo-John of Seville, *Epitome totius astrologie* (155r–169v); Abraham Avenezra, *Tractatus particulares*, tr. Pietro d'Abano, Book III (186v–187r); **Ptolemaica** (197v); Messahallah, *De significationibus planetarum in nativitate* (274v–278r); Sadan, *Excerpta de secretis Albumasar* (282v–284v). The MS contains several judgements on nativities, including by Johannes Werner (151v–153v), Johannes Virdung of Hassfurt (154r–154v), Domenico Maria Novara (188v–190v) and Albertus de Brudzewo (191r–194v), among others.

Bibl. *TCMS*, VI, 202; Unterkircher 1969–1976, IV.1, 107; Rosińska 1984, 557 (index); Franz 1988, 93; Markowski 1990, 321; Maruska 1993, 427; Lemay 1999, I, 412; Maruska 2008, 108.

44r–61r ‘Liber Claudii Ptholomei qui vocatur fructus ad illustrissimum Alphonsum regem Aragonum et utriusque Sicilie a Georgio Trapenzuntio ex Greco in Latinum versus. Librum Claudii Ptho<lome>i Alfonse rex inclite traductum quem vulgo Centiloquium ipse fructum appellat... Iam pridem perutiles ad providendum operationes stellarum, o Sire, quas in hoc composito mundo efficiunt exposuimus... (44v) Commentarii in dictum librum fructus Georgii Trapenzuntii. Libellus hic quem de Greco traductum nomini tuo destiavimus (?), illustrissime rex... (45r) Primus aphorismus. Abste et a scientia, non est enim possibile ut huius scientie professor partires rerum ydeas prevideat... Abste, inquit, hoc est a quadam insita vi animi et ingenio et a scientia nature stellarum precognitio — ut sicut raro apparent (?), sic inconsueta significare videantur. Laus Deo in die et Petri et Pauli apostolorum 1519.’

= **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**. George of Trebizond's preface, 44r; author's preface, 44r; commentary on author's preface, 44v; text and commentary in alternating sequence, 45r–61r. No glosses. The text is followed by a diagram ‘Figura Ptholomei 16 lateri’ related to v. 60 on the critical days.

197v ‘Ad verificandam horam conceptionis Iovianus Pontanus super verbo Pthelomei (!) 51 Centiloquii. Circulus geniture in exitu nati ab utero secundum verbum 51 Ptholomei sic extrahitur. Primo ad tempus datum inveniatur locus Solis cum quo erigatur figura ad quam imponatur locus Lune verus — maxime ubi Luna dignitatem yleam sibi vendicaverit.’

= **Pseudo-Giovanni Pontano, *Expositio in verbum 51 Centiloquii Ptholomei* (C.3.19)**. No glosses.

Vienna, Österreichische Nationalbibliothek, 10745

s. XV² (c. 1461 acc. Zinner) for Regiomontanus's sections; the rest of the MS was copied in the first half of the 16th c. **Or.:** most of the MS is Regiomontanus's autograph and the rest was added by Johannes Schöner and by a third hand. **Prov:** Johannes Schöner; Philipp Eduard Fugger (1546–1618).

Paper, 58 f., three hands: I [Regiomontanus], f. 1–31 and 37–45; II [Johannes Schöner], f. 32–36, 46^{bis}r–46^{bis}v and 50v–56r; III, f. 49r–50r.

Regiomontanus's astrological anthology, made of his own summaries and paraphrases of the following texts: Messahallah, *Liber receptionis* (1r–3r); Aomar, *De nativitatibus* (3v–8v); Haly Abenragel, *De iudiciis astrorum* (8v–31v); Pseudo-John of Seville, *Epitome totius astrologie* (32r–36r); Zael, *Introductorium* (37r–37v); Antonius de Monte Ulmi, *De iudiciis nativitatum* (37v–39v); Antonius de Monte Ulmi, *De revolutionibus annorum mundi*, excerpts (39v–43r); *Astronomia Ypocratis* (43r, five lines only); Thebit Bencora, *De imaginibus* (43r); Hermes/Belenus, *Liber imaginum Lunae* (43r–43v); list of eight or nine books of astral magic 'Item est libellus quidam de imaginibus secundum facies signorum ascendentes qui inscribitur Ptoletheo et vocatur opusculum Ptolemei [= Pseudo-Ptolemy, *De imaginibus super facies signorum*]. In eodem docentur imagines in hora prima cuiuslibet diei. Item imagines planetarum. Item libellus sigillorum Beel quem fecerunt filii Israel in deserto...' (43r–43v); **Ptolemaica** (43v–45r); Alcabitius, *Introductorius* (45r–45v). The rest of the MS, mainly copied by Schöner, contains astrological notes (46^{bis}r–46^{bis}v); astrological notes with horoscopes (49r–50r); 'Aomar. De revolutione anni mundi. Iudicare revolutionem anni non presumas nisi introductoria ad astrorum iudicia noveris...' (50v–55v); astrological table 1500–1547, with note above the table 'Excerpta (?) Jo<hannis> de Monte Regio' (55v); 'Io<hannes> de Monte Regio. Secundum Aomar coniunctio...', with mention of the year 1454 (56r, twelve lines only). Blank: 36v, 46, 47–48, 56v–58v. Pseudo-John of Seville's *Epitome totius astrologie* (f. 32r–36r) is not in Regiomontanus's hand, but the summary/paraphrase of this text is in the same vein as the neighbouring sections, which makes it likely that the author is also Regiomontanus (this section was copied by Schöner perhaps because the original was damaged or somehow not presentable). The whole MS might in fact derive from Regiomontanus, as suggested by the last two sections (f. 55v and 56r), explicitly attributed to him.

Bibl. *TCMS*, VI, 235; Franz 1988, 95; Zinner 1990, 49, 207 (no. 40) and 254; Maruska 1993, 428; Maruska 2008, 110.

43v–45r 'Ex Centiloquio Ptolemei. 1. Hali duplum exponit hoc verbum. Ex te, id est tuo experimento, et illis, scilicet scriptis maiorum, aliter ex te scilicet — mors regis Egipti, hostes ingressi sunt Egiptum.'
= **Regiomontanus, Ex Centiloquio Ptolemei (C.3.12)**. No glosses, but a couple of short marginal notes by Regiomontanus f. 44v.

Vienna, Österreichische Nationalbibliothek, 10903

s. XV. **Prov.:** perhaps Philipp Eduard Fugger (1546–1618).

Paper, 263 f., a single hand.

Ptolemaica (single text). Blank: 263v.

Bibl. *TCMS*, VI, 251; Monfasani 1984, 77; Franz 1988, 110.

1r–263r ‘Georgii Trapezuntii ad libros Magnae Ptholomaei compositionis introductio. Capitulum primum de divisione omnis circuli et praecipue zodaici (!). Quoniam libros Ptholomaei de motibus coelestium, quibus nescio an quicquam altius ac rationis et scientiae via certius inveniri aut fingi possit ex Graeca lingua in Latinam vertimus... (14v) Expositio Magnae compositionis Ptholomaei a Georgio Trapezunda facta incipit. Codicis huius quem exposituri gratia salvatoris sumus volumina librique tredecim sunt, in quibus Ptholomaeus intendit erratarum stellarum et fixarum motus invenire — (262v) maius inter observationes temporis spatium exigitur quam vita hominis sit.’ (followed by diagrams and notes).
= **George of Trebizond, *Expositio Magne compositionis Ptolomei* (C.1.19)**. Introduction, 1r–14r; Book I, 14v–40r; II, 40r–71r; III, 71r–87v; IV, 87v–101r; V, 101r–130r; VI, 130r–155v; VII, 155v–157v; VIII, 157v–163r; IX, 163r–185r; X, 185r–199v; XI, 199v–213r; XII, 213r–231r; XIII, 231r–262v; diagrams and notes, 262v–263r. No glosses. A few marginal notes by the scribe.

Vienna, Österreichische Nationalbibliothek, 10905

s. XVI¹ (f. 1–144 copied in 1527, cf. colophon; f. 150–157 in or shortly after 1532). **Or.:** mainly copied by Johannes Vögelin, most probably at the University Vienna (see Vienna, ÖNB, 5273).

Prov.: Philipp Eduard Fugger (1546–1618).

Paper, 174 f., two hands: I (Johannes Vögelin), f. 1r–158v, colophon f. 170v and 171r–173r; II, f. 159r–170v.

Astronomy: **Ptolemaica (1r–146v)**; Hypsicles, *De ascensionibus* (147r–149v); Johannes Vögelin, on the comet of 1532 ‘Caput primum de his quae praemittenda sunt. Praetenta cometarum generationis causa...’ (150r–157r); **Ptolemaica (157v–170v)**; Witelo, *Perspectiva*, excerpts X.59–60 (171r–173r). Blank: 173v–174v.

Bibl. *TCMS*, VI, 251; Unterkircher 1969–1976, IV.1, 122; Franz 1988, 96.

1r–146v ‘Verba Gebri filii Affla Hispalensis. <S>cientia species habet quarum melior post scientiam — (142v) sunt digniores ut evanescant et destruant. Completa (!) est declaratio eius. Finis noni et ultimi libri. (143r) Nota in figura tredecima libri primi Geber (*corr. in* Gebri) quod arcus AG subtensus recto potest esse — (143v) sit maior quarta circuli et quod uterque sit minor, sed Geber. Nota in figura decima quarta septimi libri Geber quod centrum orbis signorum potest esse infra triangulum — (144r) ad diametrum circuli ABG quod proponebatur. (144v) Annotationes in Gebrum. Textus fo. 1. Et de eis. Prima difficultas propter narrationem practicae et theoriae —

orbe signorum aliud est tosus (?) meridiem ab eo. Finivi die quarta hora quarta pomeridiana mensis Ianuarii anno Christi 1527. Johannes Vögelin Haylpronem<sis>.’

= **Geber, *Liber super Almagesti* (C.1.2)**. Preface, 1r–3r; I, 3r–17v; II, 18r–35v; III, 35v–42r; IV, 42r–56v; V, 56v–79r; VI, 79r–100r; VII, 100r–121v; VIII, 121v–130r; IX, 130r–142v; appendix, 143r–144r; additional notes, 144v–146v. Glosses by Johannes Vögelin.

157v–170v

‘Marcus monachus Caelestinus Beneventanus Ioanni Baduario Veneto senatus Veneti apud pontificem maximus oratori salute Cum proxime Venetiis me Romam contilissem... (158r) <C>um sit possibile, o Syre, et plurimum necessarium ut in plano represententur circuli in spheram corpoream incidentes — cum ipsis circulis tropicis et cum circulis meridianis signa distinguantibus. Explicit Planispherium Ptolomaei recognitum diligentissime a Marco Beneventano monacho Caelestinorum quod antea in multis etiam antiquis exemplaribus Latinis corruptissimum reperiebatur, necnon Claudii Ptolemaei a plurimis viris utriusque linguae doctiss<ime> emendatum cum multis additionibus Romae noviter impressum per Bernadinum Venetum de Vitalibus expensis Evangelista Tosino (?) Brixiano bibliopola imperante Iulio II pontifice maximo anno III pontificatus sui die VIII Septembr<is> MDVII.’

= **Ptolemy, *Planispherium*, tr. Hermann of Carinthia (A.6.1)**, Class I, without the translator’s preface. The dedicatory letter and the colophon show that the text was copied on ed. Rome 1507. A few glosses by Johannes Vögelin.

Warsaw, Biblioteka Narodowa, Rps 6627 III

s. XVII¹. **Or.:** Poland, perhaps Cracow. **Prov.:** Jakub Michałowski (1612–1663), palatin in Lublin from 1634 to 1659, cf. f. 4r: ‘Ex manuscriptis Jacobi a Michalow Michalowski tribuni pall<atinus> Lublin<ensis> regii aulici’; Ludwik Felicjan Morstin (1782–1865); sold by Ludwik Hieronim Morstin to the National Library in Warsaw in 1948.

Paper, 343 f., a least five alternating hands.

Geometry, military art, astronomy and astrology: table of contents, incomplete (3v); ‘Tractatus de geometria practica’ (4r–18v); ‘Tractatus de architectura militari’ (18v–55r); ‘Tractatus de fortificatione irregulari’ (55r–65r); ‘De fortificatione Erardi’ (65r–69v); ‘Tractatus de expugnatione artium’ (69v–84r); ‘Tractatus de propugnatione arcium’ (84r–90r); ‘Tractatus de tormentis bellicis seu militaribus’ (90r–92v); ‘Tractatus de intruendis aciebus’ (92v–102r); ‘Tractatus de castrametatione’ (102r–109v); ‘Tractatus de chorographica locorum descriptione’ (110r–117r); ‘Tractatus de ignibus artificialibus’ (117v–119r); ‘Tractatus cosmographiae divisus in quatuor libros’ (119r–162r); ‘Tractatus sinuum rectorum’ (163r–167v); *Liber novem iudicum* (169r–319v); Hermes, *Centiloquium* (321r–324v); Bethen, *Centiloquium* (324v–327v); *Capitula Almansoris* (327v–333r); Bethen, *De horis planetarum* (333r–334v); **Ptolemaica** (334v–337v). Blank: 1r (except fainted note), 1v–3r, 162v, 168, 230–234, 320, 338–343.

Bibl. J. Czubek, *Rękopisy Hr. Morstinów w Krakowie*, Kraków, 1911, 6 (no. 20); K. c. *Katalog rękopisów*, VII, Warszawa, 1969, 41–42. Additional information on origin and provenance was kindly provided by Sławomir Szyller, MSS department of the Biblioteka Narodowa, 7 September 2016.

334v–337v ‘Claudii Ptolomei Centiloquium sive Centum sententiae Ioanne Ioviano Pontano interprete. 1. A te et a scientia, fieri enim nequit ut qui sciens est particulares rerum formas pronunciet — sin non moventur provincialis hostis erit.’
= **Giovanni Pontano**, *Liber commentationum in Centum sententiis Ptolemaei* (C.3.16), without the commentary. No glosses.

Warsaw, Biblioteka Narodowa, Rps 12634 II

s. XV². **Or.:** University of Cracow (?). **Prov.:** Andrzej Lubelczyk [Andreas Bochnensis] (d. c. 1557), cf. f. 1r; Poturzyca, Biblioteka Ordynacji Dzieduszyckich.

Paper, 133 f., a single hand.

Astrology and astronomy: table of contents, 15th c. (1r); **Ptolemaica** (2r–20v); Alkindi (?), *Saturnus in Ariete sub radiis...*, attr. Haly (20v–21r and 25v); ‘Aries est signum mobile, quando Luna fuerit in eo est bonum se mutare...’ (21v–22r); Robert Grosseteste (?), *De impressionibus aeris*, attr. Haly (22v–25r); end of text f. 20v–21r above (25v); Guido Bonatti, *Liber introductorius ad iudicia stellarum*, Books III (second part) and IV (26r–41r); Hermes, *Centiloquium* (41v–45r); Bethen, *Centiloquium* (45v–49v); Guillelmus Anglicus, *De urina non visa* (50r–53r); ‘Si in principio egritudinis hora in qua ponit se in lecto...’ (53v–54v); Prophatius Judeus, *Quadrans novus* (54v–63r); ‘Nunc de potestate planetarum tractare incipiamus et signorum, et prius de formis signorum...’ (63r–66r); ‘Signa tropica sunt 4, scilicet Aries, Cancer, Libra et Capricornus... Explicit Messahalla’ (75r–80r); *prognostica* ‘Sub quibus signis et quibus planetis in eis...’ (80v–82r); Albubater, *De nativitatibus* (85r–128r). Blank: 1v, 66v–74, 82v–84, 128v–133.

Bibl. J. Kaliszuk, S. Szyller, *Inwentarz rękopisów do połowy XVI wieku w zbiorach Biblioteki Narodowej*, Warszawa, 2012, 196–97.

2r–20v ‘Mundanorum ad hoc vel ad illud mutatio corporum celestium... Dixit Ptholomeus: Iam scripsi tibi, Iesure, libro libros (!) de hoc quod operantur stelle in hoc seculo... Verbum primum [title in the margin]. Scientia stellarum ex te et ex illis est. Astrologus autem non debet dicere rem specialiter sed universaliter... (2v) Hali: Quod dixit Ptholomeus, ex te et illis, significat quod qui res futuras prenoscere prescire (!) desiderat — (19v) ex aliqua civitatum eiusdem climatis. Prima expositio Hali: Ptholomeus dixit quod stelle cum caudis sunt 9 — ipsa signabit in regibus et divitibus apparebit. Aliud commentum in alia translatione. Iam patefecit Aristotiles in libro — (20r) acciditque tunc in Egipto quicquid dixit Ptholomeus. Alia translatio. Dixerunt Ptholomeus et Hermes quod locus Lune — et hoc fuit expertum.

(20v) Conclusio Haly. Hoc est quod ego malui de expositione huius libri — et ego Deum precor ut te diligat. Et perfecta est huius libri translatio septimo die mensis Gumedi secundi anno Arabum, etc. Est finis huius opus. Amen. Explicit Centiloquium Ptholomei Phelulensis (!) finitum feria tertia.'

= **Abuiafar Hamet filius Joseph**, (*Commentum in Centiloquium*), **tr. Plato of Tivoli (C.3.1.1)**, opening with the proposition of v. 1 in the 'Mundanorum' version (C.3.1.3). The sequence of chapters at the end is as follows: proposition of v. 100, 19r–19v; Pseudo-Ptolemy's *De cometis* (B.4), attr. Hali, 19v (see below); commentary on v. 100, 19v–20r; Pseudo-Ptolemy's *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5), 20r (see below); last paragraph, 20v. No glosses.

19v 'Prima expositio Hali: Ptholomeus dixit quod stelle cum caudis sunt 9 — ipsa signabit in regibus et divitibus apparebit.'

= **Pseudo-Ptolemy, *De cometis* (B.4)**, attr. Hali, as part of the *Centiloquium* (see above). No glosses.

19v–20r 'Alia translatio. Dixerunt Ptholomeus et Hermes quod locus Lune — et hoc fuit expertum.'

= **Pseudo-Ptolemy, *Dixerunt Ptholomeus et Hermes quod locus Lune...* (B.5)**, as part of the *Centiloquium* (see above). No glosses.

Wiesbaden, Hochschul- und Landesbibliothek, 79

s. XVIⁱⁿ (1518–1519). **Or.:** copied by 'Hieronimus Pauli de Lympurg [Limburg an der Lahn, Hesse]', cf. f. 77v: 'Scriptum per me Ieronimum Pauli de Lympurg anno 1518 kal. Octobris', f. 158r: 'Finis per Hieronimum Pauli 1519', f. 161r: 'Finit per me Hiero<nimum> Pauli', f. 204r: 'Finis geometrie practice per me Iheronimum Pauli anno salutis millesimo quingentesimo decimo octavo in vigilia conceptionis Marie' and f. 240r: 'Finis huius per me Hieronimum Pauli anno domini 1519.' **Prov.:** 'Hunc librum reverendus dominus Petrus Bock Lympurgensis (vicarius eiusdem ecclesie) Arnsteinensibus [Arnstein, Lower Franconia] ex speciali gratia contulit anno domini MDLXIII' (f. 4r).

Paper, 240 f., a single hand, decoration at the beginning (f. 3r; painted initials f. 4r and 4v, a few decorated initials), numerous drawings. Several folia are missing between f. 56–57, 57–58 and 150–151.

Computus, mathematics, astronomy, astrology and astral magic: notes on the use of seven plants in medicine (3v); 'Quia ars computistica diversorum auctorum libris prolixitatibus...' (4r–24v); 'Quoniam festa mobilia littere dominicales...' (24ra–24vb); 'De compositione chylindri. Ad componendum chylindrum accipe cartam papiri...' (25r–25v); astrological text on the planets, in German (26ra–26vb); 'Algorismus. Cum in mathematica eadem nobis...' (27ra–33vb); 'Incipit tractatus de mensurationibus. De mensuratione altitudinum cum quadrante. Si vis scire altitudinem alicuius rei...' (34ra–35va); 'De compositione quadrantis. Fiat quadrans simplex cum suis foraminibus...' (35va–47ra); Robert Grosseteste (?), *De impressionibus aeris* (47ra–49rb); 'Dixit Albumasar: Ascendet cum prima facie Ariete facies

hominis nigri...' (49va); 'Aries habet caput, igneus, masculinus, diurnus, mobilis, suis regio est Babilonia et Persa...' (49vb–50rb); 'Tractatus Ruperti Pictaviensis. Verba viri prudentis et fidelis domini Ruperti. Nascentium et egrotantium secundum influentiam corporum celestium. Ego enim dico quod stelle magnum habent effectum...' (50r–51v); Hermes, *De imaginibus et horis* (51v–52r); Hermes/Belenus, *De imaginibus septem planetarum* (52r–53r); **Ptolemaica (53r–54v)**; Bernard of Gordon (?), *Tractatus ad faciendum sigilla et ymagines contra infirmitates diversas* (54v–56rb); 'Cupientibus habere fructum planetarum primo oportet scire...', end gone (56va–56vb); 'De compositione sphere materialis. Non est in postestate nostra celos sursum adire...', end gone (57r–57v); Wenceslas Faber de Budweis, comm. on Sacrobosco's *De sphaera* (58r–77v); Johannes Stöffler, *Tractatus de compositione astrolabii*, end gone (79r–150v); end of an astrological text '... que sunt magis Lucifera cunctis celestibus scilicet Lune, Veneris et Solis. Finis' (151r–151v); quadrant 'Quoniam principia parva sunt in magni ordine...' (154r–158r); 'De compositione equatorii. Pro compositione equatorii notandum est ad eius practicam...' (158v–161r); 'De radicum extractione. Radicem extrahere...' (161v–167r); 'Algorismus novus de integris compediose ac studiose sive figurarum deletionem (!) compilatus...' (167r–173r); 'Ex margarita philosophica. De arithmetice definitione...' (174r–178r); 'De principiis arithmetice practicae. Tractatus de divisione numeri contracti...' (179r–189r); 'De elementis geometrie tractatus primus. De definitione, nomine et inventoribus geometrie...' (189v–204r); 'Liber de principiis astronomie. De enumeratione et ordine dicendorum...' (205r–224v); 'Astrologie partes numerantur. Prima pars, que introductoria est, circa principia versatur...' (225v–240r). Blank: 1–2, 78r–78v, 152r–153v, 173v, 178v, 204v, 225r, 240v. Zedler ascribes the texts on f. 154r–173r to Hieronimus Pauli.

Bibl. G. Zedler, *Die Handschriften der Nassauischen Landesbibliothek zu Wiesbaden*, Leipzig, 1931, 83–85.

53r–54v '<O>pus ymaginum secundum consilium Ptolomei et est omnibus modis proprior et melior in probatione quoniam eius effectus constitutus est super facies 12 signorum. Dixit Albareth Benfellz quod omnes orientales operantur per has figuras — et cum hoc feceris, perficietur opus secundum voluntatem. Finit Ptolomeus de ymaginibus.'
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14).** No glosses.

Wolfenbüttel, Herzog August Bibliothek, 65 Aug. 2^o (2637)

s. XV (f. 171–232 are in a single hand dated 1422 for f. 185r–229v and 1455 for f. 180–184 (see below); in or after 1468 for f. 325–334; probably 1474 for f. 339–348, cf. f. 345v: 'Finis optatus 1474^o 29 Aprilis...'). **Or.:** f. 171–229 were copied by one Wilhelmus Gezenstorffer or Geczenstorff (cf. f. 184vb: 'Explicit Theorica planetarum per Wilhelmum Gezenstorffer anno domini M^oCCCC^oLV^o die secunda mensis Augusti' and 229v: 'Finite sunt hee tabule illustris regis ac principis Alfoncii per me Wilhelmi Geczentorff undecimo kalendas Novembris anno M^oCCCC^oXXII^o'). **Prov.:** f. 81r bears a 16th-c. ex-libris of St Ulrich's and St Afra's Abbey in Augsburg, but this may apply to f. 81–102 only.

Paper, 348 f., MS made of 15 parts, each copied by a single hand unless otherwise noted: f. 1–8 (printed text), 9–80, 81–102, 103–114, 115–123, 124–131 (at least three hands), 132–142, 143–155, 156–170, 171–184, 185–232 (same hand as f. 171–184), 233–310, 311–324, 325–338 (two or three hands) and 339–348.

Geometry, astronomy and astrology: comm. on Statius's *Thebais* (f. 1–8, printed text); Euclid, *Elementa*, ed. Campanus of Novara, Books I–VI (9r–75v); Hyginus, *De astronomia* (81r–95v); Gerbert of Aurillac, letter to Constantine of Fleury on the construction of a celestial sphere 'Descriptio rotunde spere. Spera ad celestes circulos vel signa ostenda...' (95v–96r); *Excerptum de astrologia Arati* (96r–97r); judgement on a nativity of 30 October 1466, incomplete (103v–106r); judgement on a nativity of 15 October 1442 in Mantua (108v–113r); Nicolaus Karolo (or Nicolaus Karlo) of Venice, judgement on the nativity of Ludovico III Gonzaga (116r–121v); astrological judgement addressed to a pope, probably Paul II 'Antequam beatissimie pater fuisset quicquam per s. v. de pace conclusum...' (124r–130r); prognostication for 1465 (132r–142v); 'Speram in planum proicere. Describatur super centrum A...' (143r–151v); astronomical tables (159r–170r); canons of Toledan tables (171ra–180va); *Theorica planetarum Gerardi* (180vb–184vb); Alfonsine tables (185r–229v); 'Et quia sepe queritur que hora sit tam de die quam de nocte...' (229v); **Ptolemaica** (229v); 'Tractatus de mensuracionibus. Tractatus de mensuracionibus et primo de mensuratione rerum altitudinem...' (230r–232r); table: points of essential dignities of each planet in the 12 signs (232v); table: geographical coordinates of 28 cities, mainly Italian and German (232v); planetary tables (233r–304v); syzygy and eclipse tables for Paris 1321 (306r–308r); canons 'Tempus prime coniunctionis Ianuarii anni cuiuscumque...' (308v–309r); John of Saxony, canons 'Non fuit mortuus qui scientiam vivificavit...' (311r–323v); prognostication for the years 1468–1469, addressed to Paul II (325r–334r); John of Saxony, comm. on John of Ligner's *Canones primi mobilis* 'Exempla canonum Iohannis de Lineriis primi mobilis edita a Iohanne de Saxonia. Quia plures astrologorum diversos libros fecerunt...' (339r–345v); 'Practicam generalem cuiuslibet eclipsis Lune...' (346r–348r). Blank: 76–80, 97v–103r, 106v–108r, 113v–115v, 122–123, 130v–131v, 152–158, 170v (except note about the latitude of Basel and Ingolstadt), 305, 309v–310, 324, 334v–338r, 348v.

Bibl. *KHAB*, VI.3, 334–35; M. Folkerts, 'Mittelalterliche mathematische Handschriften in westlichen Sprachen in der Herzog August Bibliothek Wolfenbüttel. Ein vorläufiges Verzeichnis', *Centaurus* 25 (1981), 1–49: 14–15; Pedersen 2002, I, 186–87.

229v 'Dixerunt Ptolomeus et Hermes quod locus Lune in hora — et hoc expertus fuit multociens etc.'
 = **Pseudo-Ptolemy**, *Dixerunt Ptholomeus et Hermes quod locus Lune...*
 (**B.5**). No glosses.

Wolfenbüttel, Herzog August Bibliothek, 76.1 Aug. 2^o (2725)

s. XIV. **Or.:** probably northern France (Paris?).

Parchment, 205 f., MS made of two contemporary parts (f. 2–94 and 95–205), each copied by a single neat hand. The first part contains painted initials f. 2r, 23r, 34r, 51r and 83r, and numerous decorated initials. One or several folia are missing after f. 94.

Astronomy, astrology, astral magic and geomancy: Pseudo-Messahallah, *De compositione astrolabii* (2ra–22vb); *Theorica planetarum Gerardi* (23ra–34ra); **Ptolemaica** (34rb–39vb); Thebit Bencora, *De recta imaginatione spere et circulorum eius diversorum* (39vb–42rb); Thebit Bencora (?), *De quantitate stellarum et planetarum et proportionem terre* (42rb–45rb); Pseudo-Thebit Bencora, *De motu octave spere* (45va–49vb); list of 15 stars with the corresponding stone and plant (50r); Alcabitius, *Introductorius* (51ra–80vb); ‘Saturnus ex partibus mundi dicitur et Alenid et eorum confinia...’ (80vb–81vb); table: astrological symbols for signs and planets (81vb); table: elections from the aspects of the Moon with the other planets (82r); Hermes/Enoch, *Tractatus de quindecim stellis*, attr. Thebit (83ra–87ra); *Alchandreana* ‘De cursu planetarum. Hiis 7 stellis per 12 signa prenatis (!) addidit spacium manendi in primis. Sol quippe moratur in unoquoque signo...’, end gone (87ra–94vb); William of Moerbeke, *Opusculum geomancie* (95ra–205vb). Blank: 1, 50v, 82v.

Bibl. *KHAB*, VI.3, 391–93.

34rb–39vb ‘Thebit Benethorat (!) de hiis que indigent expositione antequam legatur Almagesti. Equator diei est circulus maior qui describitur super 2 polos mundi — aut propinqui oppositioni Solis erunt retrogradi.’
= **Thebit Bencora**, *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1). No glosses.

Wolfenbüttel, Herzog August Bibliothek, 78.2 Aug. 8° (3778)

s. XV² (in or after 1456, cf. f. 34v: ‘Hec sunt forme ... (?) planetarum secundum Hali 1456°’).
Or.: Germany (cf. f. 47v–48v).

Paper, I + 101 f., a single hand.

Astronomy and astrology: modern table of contents (Ir); ‘Compositio astrolabii. Cum astrolabium componere velis, accipe tabulam spericam...’, incomplete (1r–3r); astrological dictionary ‘A. Ayz planete est ut sit masculinus in die super terram...’ (14r–30r); five short astrological chapters ‘De ludo. Pro ludo exi domum tuam sub signo mobili...’ (31r–31v); ‘Iudicium stellarum Haly. Dicit Hali: In libro meo magni (?) iudicarii non posui...’ (33r–33v); ‘Hec Hali. Hec sunt forme planetarum. Saturnus magnorum oculorum et habet in uno eorum maculam...’ (34r–34v); tables giving meteorological prognostics from the conjunction (?) of planets in the 12 signs (35r–37v); ‘Aliqua de iudiciis nativitatum. Sol in ascendente significat principatum et sublimitatem...’ (39r–47v, a compilation which includes Gergis’s *De significatione septem planetarum in domibus*); text on the nature of the 12 signs, in German (47v–48v); ‘Quomodo se habeat homo cum Saturnus fuerit in qualibet domo totius sodiaci (!). Et primo de domo vite...’ (48v–49r); astrometeorology ‘Si (?) Luna infra radios Saturni...’ (51r–51v); canons of astronomical tables ‘Pro notitia et inventionem mediorum motuum omnium planetarum...’ (52r–54r), with corresponding tables (55r–61r); **Ptolemaica** (69r–101r). Blank: Iv, 3v–13v, 30v, 32, 38, 49v–50v, 54v, 61v–68v, 101v (except drawing of a man holding an astrolabe).

Bibl. *KHAB*, VIII.5, 148.

- 69r–101r ‘Incipit Quadrup<ar>titum Ptholomei Pheludiani. Capitulum primum primi libri quarti partus Ptholomei. Res, Misori, quibus perficiuntur pronosticaciones accepte de astronomia maiores et nobiliores sunt due. Una quarum est que debet in ordinacione et virtute preponi et est hec ars qua duorum luminarium et quinque planetarum figure sciuntur secundum motum suum — ad celi medium nativitatis sui domini sive regis qui fuit tempore quo edificate fuerunt.’
 = **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2),** I–II.3, without the translator’s preface and without Haly’s preface and commentary. I, 69r–94v; II, 95r–101r. No glosses.

Wolfenbüttel, Herzog August Bibliothek, 147 Gud. Lat. 4° (4451)

s. XII^{ex}–XIIIⁱⁿ (f. 3–161) and XIII^l (f. 2, probably c. 1231; and f. 162–194, probably before c. 1231); the MS as a whole is dated to the 14th c. by *KHAB* and Kunitzsch. **Or.:** Oxford (Georges; France acc. Carmassi). **Prov.:** Andreas de Vogelsanc, a penitentiary of the pope attested in Avignon from 1351 to 1353, who left the MS in some unnamed place (cf. f. 1^{bis}v: ‘Hunc librum posuit hic reverendus pater frater Andreas de Vogelsanc penitentiarius domini pape, quamdiu sibi placet’), which must be the monastery of Soest in Westphalia acc. Georges; Marquard Gude (d. 1689), who annotated the MS.

Parchment, 196 f., composite MS made of three parts: I, f. 1^{bis}–2 + 195–196 (a single hand for the Ptolemaic section); II, f. 3–161 (a single hand, painted initial at the beginning of Book V on f. 51ra, reserved initials at the beginning of each other book); III, f. 162–194 (a single hand, decorated initials). The first part (f. 1^{bis}–2 and 195–196) consists of two bifolia from another MS reused as cover for f. 3–194. F. 1 was added last.

Ptolemaica (2ra–2vb, 3ra–161vb and 162r–194r). Blank: 194v. F. 1^{bis}–2 and 195–196 contain fragments of decretals, which were erased on f. 2r–2v to make room for the first Ptolemaic section, and around which scattered notes were added at various times, including a set of notes on calendar conversion for the year 1231 (‘anno domini M^oCC^oXXX^o perfectio’) and owners’ notes (1^{bis}v), and further astronomical notes on arcs and chords (195r–196r), where the year 1337 is mentioned on f. 195v. F. 1 contains a table of contents by Gude (1r) and a fragment of a late medieval text mentioning the archbishop of Cologne (1v).

Bibl. *KHAB*, IX, 163–64; Haskins 1927, 106–08; Kunitzsch 1974, 94–95; Kunitzsch 1986–1991, II, 19; P. Carmassi, ‘Book Material, Production, and Use from the Point of View of the Paratext’, in *Inscribing Knowledge in the Medieval Book. The Power of Paratexts*, eds R. Brown-Grant, P. Carmassi, G. Drossbach, A. D. Hedeman, V. Turner, I. Ventura, Berlin-Boston, 2019, 304–30: 307 and 313 (with colour reprod. of f. 51r, 65r, 15r, 34r, 36r, 33r and 101v on pp. 310–12 and 323–26 respectively); Georges (forthcoming).

- 2ra–2vb ‘Eam pingendi Gratias antiqui feruntur habuisse consuetudinem, ut unam quidem vultum aversam, due quibus illa manum porrigeret aspectarent. Cuius misterii non ignarus dudum — ad huius operis lectionem dignos

admittas, indignos abigas. Suam quippe rebus dignis adimet dignitatem, si quis eas communicaverit indignis.’

= **Ptolemy, *Almagesti*, tr. Sicily c. 1150 (A.1.1)**, translator’s preface only. No glosses. The text is followed (2vb) by a note on the names of the months in Latin, Hebrew, ‘Egyptian’ and Greek: ‘Menses Latinorum: Ianuarius...’. Gude added a title on f. 2ra: ‘Claudii Ptolemaei Magnae constructionis, vulgo Almagestum vocant, libri XIII latine conversi.’

3ra–161vb ‘Conueniens est intelligenti proverecundari est ea que ipsi non sunt grata cognat. Intelligens est qui linguam suam — non dulcescunt. Alia translatio primi capituli. Bonum domine fuit quod sapientibus perfectis visum est ... (3vb) Quidam princeps nomine Albugaife in libro suo quem scientiarum electionem et verborum nominavit... (4ra) onum quidem fecerunt illi qui perscrutati sunt scientiam philosophie — et abbreviationem, tunc iam sequitur et honestum est ut ponamus hoc finem libri. Finit liber Ptolomei Pheludensis, qui grece Megasiti, arabice Almagesti, latine Maior perfectus appellatur.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Preface (section), 3ra; ch. I.1 in al-Ĥajjāj’s version, 3ra–3vb; preface (section), 3vb; Book I (with first chapter in Iṣḥāq’s version), 4ra–13va; II, 13va–28vb; III, 28vb–38rb; IV, 38rb–50vb; V, 50vb–65ra; VI, 65ra–78vb; VII, 78va–89rb; VIII, 89rb–98va; IX, 98va–111rb; X, 111va–120vb; XI, 120vb–134vb; XII, 134vb–145va; XIII, 145va–161vb. Numerous glosses by the scribe (sometimes substantial, e.g. f. 98v–108r). Glosses by at least two other hands, one of which wrote ‘Annis Christi 1329 completis sunt anni Nabug. 2077’ (66v).

162r–194r ‘Prolixitatis exosa Latinitas artium principia prescriptione quadam insignire sollicita est... (162v) Ex stellarum habitudine prescientie perfectio consecuta, Iezuri, tamquam partes maiores — qualitatem inueniet. Quoniam ergo iuxta propositum nostrum in astrorum iudicia viam universalem tradidimus, congruum est ut huic tractatui nostro finem imponamus. Perfecta est huius libri translatio 29 die Augusti anno domini 1206 et 23 die Alnuharam anno Arabum 603, et Deus melius novit. Explicit Quadripartitum Pthol<ome>i in iudicia astrorum secundum accidentia editum.’

= **Ptolemy, *Quadripartitum*, tr. 1206 (A.2.3)**. Translator’s preface, 162r; I, 162v–171v; II, 171v–179r; III, 179r–188v; IV, 188v–194r. No glosses. On f. 162r, Gude added a title (‘Cl. Ptolemaei Quadripartitum’) and a longer note (ed. Carmassi, 328 n. 19).

Wolfenbüttel, Herzog August Bibliothek, 444 Helmst. (479)

s. XV¹ (1440 for f. 163–176, cf. f. 174rb and 176rb; f. 1–162 were copied from 1435 to 1440, cf. f. 66vb, 90va, 114rb, 122va and 162vb; f. 267–300 were copied in 1450–1451 (not 1470, as in Heinemann), cf. f. 287ra, 288va, 296rb and 298rb; f. 318–395 in 1437, cf. 322vb and 384rb.

Or.: Germany (several sections are in German), f. 267–300 were copied by Bruno Steenbeke of Osnabrück, cf. f. 296rb: ‘Explicit tractatus virtutum medicinarum simplicium per me magistrum

Brunonem Steenbeke de Osnaburgis anno domini MCCCCCL^o...’, f. 300va: ‘... scriptus et finitus per me magistrum Brunonem Steenbeke de Osnaburgis anno domini MCCCCCL^o...’), f. 304–316 ‘per me Iohannem Schonefelt’ (f. 316ra) and f. 318–395 ‘in Bamberg’ (f. 384rb).

Paper (with a few parchment leaves), 400 f., several hands, one of which copied most of f. 53–242 and occurs in other places as well.

Medicine, with the exception of f. 163–202, dealing mainly with astronomy and astrology: Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (163ra–174rb); *Capitula Almansoris* (174va–176rb); added recipe (176rb–176va); Savasorda, *De redemptione filiorum Israel* (177ra–183vb); *Astronomia Ypocratis* (184ra–185vb); ‘Incipit Conr<adi?> tractatus de iudiciis astronomicis super infirmitates. Inquit Haly filius Benragel: Scito quod consideratio infirmitatis dividitur in decem partes...’ (185vb–188vb); added notes of medicine ‘<C>irca prognostica magistri Ar<noldi> de Villanova est primo notandum quod sicut in iudicio sunt 4 persone...’ (188vb–189rb); **Ptolemaica** (190ra–200va); Hermes, *Centiloquium* (200vb–202r). Blank: 189v.

Bibl. *KHAB*, I.1, 346–50.

190ra–200rb ‘Incipit Centiloquium Ptholomei regis Egypti. Prologus. Dixit Ptholomeus: Iam scripsi tibi, iesure, de hoc quod stelle operantur in hoc seculo... Scientia stellarum ex te et illis est... Haly. Ideo dixit Ptholomeus, ex te et ex illis est, significans (?) quod qui res futuras tunc (?) prenoscere desiderat — Deum precor ut dirigat. Et perfecta est huius libri translatio 17 die mensis Martii, 15 die mensis Gumedii secundi anno Arabum 230. Et sic est finis Centiloquii.’
= **Abuifafar Hamet filius Joseph**, (*Commentum in Centiloquium*), tr. **Plato of Tivoli (C.3.1.1)**, with v. 51–100 also given in ‘Mundanorum 1’ (C.3.1.3). Glosses by the scribe.

200rb–200va ‘Dixit Ptholomeus: Stelle caudate sunt 9. Stelle cum caudis sunt 9 — in regibus et divitibus apparebit. Et sic est finis.’
= **Pseudo-Ptolemy**, *De cometis* (B.4). No glosses.

Wolfenbüttel, Herzog August Bibliothek, 784 Helmst. (875)

s. XV^{ex}. **Or.:** Germany (some texts are in German). **Prov.:** Johannes de Nemode (f. 1r).

Paper, 245 f., several hands.

A collection of medical texts and notes, except for notes on the sizes, distances and motions of the planets ‘Axis celi stellati continet censcies trigesies milie mille...’ (42v–44v); Conradus Rengart, prognostication for 1483 (60v–65r); Pseudo-Aristotle, *Secretum secretorum* (145r–164v); **Ptolemaica** (224r–233v); astrology ‘Hic sequitur. Existis signis XII ut ...is (?) astronomorum auctoritas testatur, sex sunt feminea et sex masculina...’ (234r–235r).

Bibl. *KHAB*, I.2, 215–17; Nicoud 2007, II, 948–49.

224r–233v ‘Aries habet caput et faciem, pupillam, oculos... Cum Luna fuerit in Ariete, signo orientali, calido et sicco, igneo et calido et masculino, bonum est iter

versus orientem incipere... Natus sub Ariete a medio Martii usque ad medium Aprilis erit magne industrie, nec dives nec multum pauper — (Pisces) dolorem patietur, vivet annis LXXVI secundum naturam.'

= **Pseudo-Ptolemy, *De nativitatibus hominum* (B.11)**, without the preface and with added material. Occasional short marginal notes by another (?) hand.

Wrocław, Biblioteka Uniwersytecka, IV.F.22

s. XIV–XV (Kristeller). **Prov.:** Wrocław, Dominican library.

Paper, 162 f. only sporadically foliated, a single hand, reserved initials. Several folia are missing at the end.

Ptolemaica (single text).

Bibl. Zinner 1962, 20; Kristeller 1963–1992, IV, 425 ('IV.Q.22').

1ra–162vb ' <D>ixit Egideus de Thebaldis Lo<m>bardus de civitate Parmensi: <S>cire et intelligere gloriosum est quia omnis sapientia est a Deo... (1va) Tractatus primus glose Abenrudiani super prima parte libri Quadripartiti Ptholomei. <V>erba que dixit sapientissimus Ptholomeus in arte iudiciorum... (3rb) <R>es, o Mizori, quibus perficiuntur pronosticationes accepte de astronomia maiores et nobiliores sunt due — ad pulsum non possunt tibi narrare et feci me sicut hominem in lub<rico>...' = **Haly Abenrudian, *Glosa super Quadripartito Ptholomei* (C.2.2)**. Abrupt end in IV.9 due to missing folia. Translator's preface, 1ra–1rb; Haly's preface, 1va–3ra; I, 3rb–41ra; II, 41ra–79ra; III, 79ra–135vb; IV, 135vb–162vb. No glosses.

Wrocław, Biblioteka Uniwersytecka, R 43

s. XIII^{med}. **Or.:** England, probably Oxford (Georges). **Prov.:** Wrocław, Stadtbibliothek (Rehdigeriana).

Parchment, I + 166 f., a single neat hand, decorated initials.

Ptolemaica (single text). F. Ir: 'Almagestes (!) Ptholomei de motibus astrorum' (later hand). Blank: Iv, 166v.

Bibl. K. Ziegler, *Catalogus codicum Latinorum classicorum qui in Bibliotheca Urbica Wratislaviensi adservantur*, Wrocław, 1915, 7; Kristeller 1963–1992, IV, 427; Kunitzsch 1986–1991, II, 14; Georges (forthcoming).

1ra–166rb 'Incipit liber Almagestes (!) Ptholomei de motibus astrorum [title in upper margin, apparently by the scribe]. Quidam princeps nomine Albugaefe in libro suo quem scienciarum electionem et verborum nominavit... (1va) Capitulum primum de huius sciencie ad alias excellencia et finis eius

utilitate. Bonum domine fuit quod sapientibus non deviantibus visum est — abbreviacionem, arroganciam et collaudacionem, tunc iam sequitur et honestum est ut ponamus hic finem libro.’

= **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class A. Preface, 1ra–1va; I, 1va–12va; II, 12va–29v; III, 30ra–38ra; IV, 38ra–51va; V, 51va–67rb; VI, 67va–81v; VII, 82ra–92ra; VIII, 92rb–101ra; IX, 101rb–115ra; X, 115ra–125vb; XI, 125vb–140vb; XII, 140vb–152rb; XIII, 152rb–166rb. A few short marginal notes by a least two later hands f. 3r–3v, 5v, 17v–18r, 20v, 21v–23v, 32r, 33r–34r, 35r, 36v–39r, 44r–44v, 62v, 70v–73r, 84r.

Wroclaw, Biblioteka Uniwersytecka, R 44

s. XV¹ (1447, cf. colophon). **Or.:** copied in Montiss... (?) by ‘magistrum Borlin de Spira’, ‘scriptor’ of Nicolaus de Comitibus (cf. colophon). **Prov.:** Wroclaw, Stadtbibliothek (Rehdigeriana).

Paper, 133 f., a single neat hand, painted initial f. 1r. Blank: 133v. The MS is severely damaged (by moisture?) on the edges, so that the left column of the verso pages and the right column of the recto pages are mostly illegible. The damage seems to be posterior to 1915, since nothing is said about this in Ziegler’s catalogue.

Ptolemaica (single text). Blank: 133v–138v.

Bibl. K. Ziegler, *Catalogus codicum Latinorum classicorum qui in Bibliotheca Urbica Wratislaviensi adservantur*, Wroclaw, 1915, 7–8; Kristeller 1963–1992, IV, 428.

1ra–133rb ‘Incipit liber quadripartiti Ptholomei Pheludiani. Dixit Egidius de Thebaldis Longbardus de civitate Parmensi: Scire et intelligere gloriosum est quia omnis sapientia est a Deo... (1va) [text illegible]... (3ra) Capitulum primum primi tractatus libri quatuor partium Ptholomei Pheludiani. Textus: Res, Missori, quibus perficiuntur pronosticationes accepte de astrologia maiores et nobiliores sunt due — (129vb) posuit in hoc libro sunt regule et radices quibus ars ista componitur. Explicit. Benedictus sit Deus gloriosus et sublimis Deus illum dirigat qui scripsit et qui scribere fecit in secula seculorum. Amen. Explicit comentum Haly Abenrudyani super 4 tractatibus Quadripartiti Ptholomei. Incipiunt exempla tria nativitatum trium eiusdem Haly. Volo in hoc loco dare tibi exemplum trium nativitatum ut melius intelligas quidquid locuti sumus in eis, in primo est nativitas mea — hec sunt que tibi glosavi in quibus studium et mentem apponas et Deus te dirigat in viam rectam. Volui probare utrum iste auctor iudicaret secundum nonam speram vel secundum octavam et inveni per loca planetarum qui ponit in figura sue nativitatis quod ipse fuit annis Christi perfectis 986, 10 mensibus, 15 die Ianuarii, qua die equavi planetas secundum tabulas Mach<linienses> et inveni sic. Explicit liber quadripartiti Ptholomei cum comentis Haly Habenrudiam, completus in Montiss<...> (?) anno domini nostri Ihesu Christi 1447 die quarta Augusti per me magistrum Borlin de Spira tunc scriptorem magnifici domini Nicolai comitis de Comitibus Padue etc.’

= **Haly Abenrudian, *Glosa super Quadripartito Tholomei* (C.2.2).** Translator's preface, 1ra–1va; Haly's preface, 1va–3ra; I, 3ra–37ra; II, 37ra–68ra; III, 68ra–105vb; IV, 105vb–129vb; Haly's appendix, 129vb–133rb; additional note, 133rb. No glosses.

† Wrocław, Biblioteka Uniwersytecka, R 172

s. XIV. **Prov.:** Wrocław, Stadtbibliothek (Rehdigeriana). The MS disappeared in WWII, as was confirmed to me by Adam Poznański in January 2014.

Parchment, 80 f., a single neat hand.

Astronomy and astrology: Alfraganus, *De scientia astrorum*, tr. Gerard of Cremona (49r–68v); Pseudo-Thebit Bencora, *De motu octave spere* and other treatises attr. Thebit (69r–77v), including perhaps *De hiis que indigent expositione antequam legatur Almagesti* (C.1.1); Hermes, *Centiloquium* (78r–80v).

Bibl. K. Ziegler, *Catalogus codicum Latinorum classicorum qui in Bibliotheca Urbica Wratislaviensi adservantur*, Wrocław, 1915, 131–32.

- 1r–46r 'Incipit liber 4 tractatum Ptholomei Alfilludhe in scientia iudiciorum astrorum... Rerum, Yesure, in quibus pronosticabilis — imponere non incongruum existimamus.'
 = **Ptolemy, *Quadripartitum*, tr. Plato of Tivoli (A.2.1).**
- 46r–46v 'Cum projectionem radiorum stellarum scire volueris, scias gradus ascendentis — erit locus radiationis equate.'
 = **Pseudo-Ptolemy, *Liber projectionis radiorum stellarum* (B.6).**

† Wrocław, Biblioteka Uniwersytecka, R 339

s. XV. **Prov.:** Wrocław, Stadtbibliothek (Rehdigeriana). The MS disappeared in WWII, as was confirmed to me by Adam Poznański in January 2014.

Paper. No further information is available regarding the total number of folia and hands.

Astrology and astronomy: ***Ptolemaica* (3r–21v)**, followed by an astronomical section entitled 'Theorica eclipsium (!) Solis et Lunae cum tabulis, incerti auctoris' by Guttman.

Bibl. M. A. Guttman, *Katalog der Handschriften der Rehdigeriana* (handwritten catalogue compiled in the 1840s), I, 71; Monfasani 1984, 78; Kristeller 1963–1992, IV, 429; Lemay 1999, I, 409.

- 3r–21v '... (?).'
 = **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11).** This section is entitled 'Georgii Trapezuntii Commentarius in Ptolemaei Aphorismos' by Guttman.

Wrocław, Zakład Narodowy im. Ossolińskich (Ossolineum), 759

s. XVIⁱⁿ (for f. 71–119, completed in 1505, cf. f. 119r; f. 1–69 were copied in 1488, cf. f. 35v and 69r). **Or.:** f. 71–119 copied by Matthias de Krajna at the University of Cracow (f. 119r: ‘Finis Centiloquium Ptholomei Alexandrini per magistrum Mathiam de Cragney anno 1505. Emendatus ac elimatus Cracowie ex codice Italico domini doctoris Siculi lectiones in studiis humanitatis Cracowie publice profitentis...’). F. 1–69 were copied by ‘Iohannem de Crobya’ (cf. f. 69r), most probably at Cracow as well. **Prov.:** Lviv (present-day Ukraine); transferred to Wrocław after WWII.

Paper, 132 f., two hands (f. 1–69 and 71–132).

Astronomy, physiognomy and astrology: Peurbach, *Theoricae novae planetarum* (1r–35v); Albertus de Brudzewo, *Commentariolum super Theoricas novas Georgii Purbachii* (37r–69r); Johannes de Glogovia, *Physionomia* (71r–83v); **Ptolemaica (84r–114r)**; George of Trebizond, *Liber de antiscii et cur astrologorum iudicia plerumque fallant* (114v–119r), with notes (119v–120r); Bartholomew Berp of Valencia, *De diebus naturalibus earumque equatione opusculum* (120v–124r); Johannes Ganivetus, *Amicus medicorum*, end gone (124v–130v); notes (131r–132r). Blank: 36, 69v–70v, 132v.

Bibl. W. Kętrzyński, *Catalogus codicum manuscriptorum Bibliothecae Ossolinianae Leopoliensis*, III, Lwów, 1898, 242–43; Monfasani 1984, 77; Rosińska 1984, 557 (index); Kristeller 1963–1992, IV, 440; Markowski 1990, 322; Malpangotto 2020, 657 and 667–68.

84r–114r ‘<L>ibrum Claudii Ptholomei mihi, Alfonse, rex inclite, traductum, quem vulgo Centiloquium ipse fructum appellat... (84v) <I>am pridem perutiles ad providendum operationes stellarum, o Sire, quas in hoc composito efficiunt mundo exposuimus... <L>iber est hic quem de Greco traductum nomini tuo dedicavimus, illustrissime rex... (85r) Abs te et a scientia, non est enim possibile ut huius scientie professor particulares rerum ideas provideat... Abs te et a scientia. Abs te, inquit, hoc est a quadam insita vi animi et ingenio et a scientia nature stellarum precognitio fit — ut sicut raro apparent, sic inconsueta significare videantur.’

= George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei (C.3.11)*. George of Trebizond’s preface, 84r; author’s preface, 84v; commentary on author’s preface, 84v–85r; text and commentary in alternating sequence, 85r–114r. Glosses by the scribe (Matthias de Krajna).

Wrocław, Zakład Narodowy im. Ossolińskich (Ossolineum), 764

s. XVI^l (part V, which includes the Ptolemaic section, was copied in the 1530s, cf. the dates 1531 on f. 269v, 1535 on f. 277r and 1532 on f. 278r; the rest of the MS dates from the beginning of the 16th c. to the first half of the 17th c.). **Or.:** part V was copied by Michael de Wislica (fl. 1523–1537), professor of astrology at the University of Cracow, as recognised by Jan Brożek (see Prov.), who wrote his name at the beginning and at the end of the section concerned: ‘M<agistri> Michaelis Wisliciensis astrologi peritissimi’ (f. 179r) and ‘Hactenus m<agistri>

Michaelis Wisliciensis scripta' (f. 337v). The other parts of the MS were copied by other graduates and masters of the University of Cracow: Nicolaus de Wieliczka for part I, cf. f. 37r: 'Et sunt scripti per me Nicolaum de Wyeliezka, arcium liberalium baccalarium, finitque die Iovis, XIII mensis Novembris anno Christi 1511' and f. 89r: 'et sunt scripte per me Nicolaum de Wyeliezka, arcium liberalium baccalarium, finiteque die Saturni, XXVIII mensis Februarii anno Christi 1512'; Jan Brożek for part II (see Prov.); and Valentinus Arnoldus Philomatis (fl. 1525–1555) for part VI. The other parts are anonymous. **Prov.:** Jan Brożek assembled the various parts of this volume in 1616 for the use of the ordinary professor of astrology of the University of Cracow and indicated the authors' names when he could identify them, as he explains f. 96v: 'Varia quae sequuntur scripta m<agister> Ioannes Broscius Curzeloviensis, ordinarius astrologus, collegit et ligari simul curavit in usum ordinarii astrologiae professoris, annotatis eorum authoribus quos scire potuit. Anno 1616, 5 Maii'; Lviv (present-day Ukraine); transferred to Wrocław after WWII.

Paper, 448 f., composite MS made of six parts, each copied by a single hand, except for part IV, copied by at least three hands: I, f. 1–93 and 425–448; II, f. 96–110; III, f. 111–164; IV, f. 165–178; V, f. 179–337; VI, f. 338–420.

Astrology (part V): 'Praefatio. Miraberis fortasse, optime lector, prognosticon hoc a me editum...' (179v–194r); **Ptolemaica (196r–218v)**; Agostino Nifo, *De decretorum dierum causis libellus* (219r–222v); Agostino Nifo, *De pronosticis* (223r–225r); Agostino Nifo, *De medicamentorum electionibus* (225v–226r); Agostino Nifo, *De calamitatum nostrarum causis* (229r–258r); Michael de Wislica, notes and drafts of various texts and letters (263r–302r); *Tractatus de scientia nativitatum* attr. Ptolemy 'Libellus brevis et utilis de nativitatibus ex quadripartita doctrina sapientis Ptholomei excerptus. Scientia nativitatum ex que ex figura nativitatis veris sibi et suis eventus futuros pronosticat. Habita enim figuratione celi...' (303r–336r). The other parts of the MS contain Johannes de Glogovia, *Canones Tabularum directionum* (2r–37r), with *addendum* (37v–38v); Johannes de Glogovia, *Summa astrologie*, Book III (40r–89r); Johannes de Glogovia, *Tractatus de nativitatibus* (89v–93r); solar and lunar tables 'ad annum 1627 et sequentes', incomplete (97r–110v); Heinrich Cornelius Agrippa von Nettesheim, *De occulta philosophia*, Books I–II (111r–164r); texts on comets 'Cometes de natura elementari existens...' (165r–178v); Albohali, *De nativitatibus*, tr. Johannes Toletanus (339r–379r); anthology 'Ordo Arabicae astrologiae. De thesauro et occultis ex Dorotheo. Dixit Dorotheus: Cum interrogatus fueris de thesauro vel de aliqua re occulta...' (379v–420v); 'Canon de duodecim domibus celi erigendis...' (425r–425v); 'In questionibus astrologicis quamvis sit varia consideratio, hec tamen est generalis et plus sequitur viam naturalem. Canon primus de cautesis in questionibus secundum Gwidonem Bonati...' (426r–432r); Johannes de Glogovia, *Tractatus de nativitatibus*, incomplete (433r–435v); 23 horoscopes concerning George of Podebrady, king of Bohemia, and Matthias Corvinus (437r–448r). Blank: 39, 93v–96v (except for added notes f. 96v), 164v, 194v, 195 (except notes), 226v–228v, 258v–262v, 274–275, 285, 293, 294v–295v, 302v, 421–424, 436, 448v.

Bibl. W. Kętrzyński, *Catalogus codicum manuscriptorum Bibliothecae Ossolinianae Leopoliensis*, III, Lwów, 1898, 244–46; Monfasani 1984, 77–78; Rosińska 1984, 557 (index); Kristeller 1963–1992, IV, 440; Markowski 1990, 322.

- 196r–218v ‘Liber Claudii Ptholomei qui vocatur fructus ad illustrissimum Alfonsum regem Arragonum et utriusque Sicilie a Georgio Trapenzuncio ex Greco in Latinum versus. Afforismus primus. Abs te et a sciencia nature stellarum precognitio fit, non enim est possibile ut huius sciencie professor particulares rerum ideas provideat — ut sicut raro apparent, sic inconsueta significare videantur.’
 = **George of Trebizond, *Commentarii et expositiones in aphorismis Libri fructus Ptolomei* (C.3.11)**, without the prefaces and with text and commentary in alternating sequence. The organisation of the text is particularly chaotic, the commentary being copied in smaller script between the lines and in the margins, and mixed together with glosses, all in the hand of the scribe (Michael de Wislica).

Zurich, Zentralbibliothek, B 244

s. XV^{ex} (in or after 1489 for the Ptolemaic section, see below; f. 24–92 copied in 1490). **Or.:** f. 24–92 copied by Johannes Och of Wimpfen (Baden-Württemberg) in St Gall (f. 92rb: ‘Finitum in profesto Sancti Galli per me Ioannem Och de Wimppinna anno domini M^oCCCCCLXXXX^o’). **Prov.:** Christoph Klauser (16th c.), who added the table of contents f. 1r and copied f. 5r–7r and 89va–90v.

Paper, I + 92 f. (new foliation in upper right corner, as in Mohlberg), four hands: I, f. 1r–4r; II [Christoph Klauser], f. 5r–7r and 89va–90v; III, f. 11r–19v; IV [Johannes Och], f. 24r–89va and 91r–92r. The MS has been damaged (apparently by water), making the top four or five lines of each page partly illegible in the first part (f. 1–19). Several folia are missing before f. 11.

Astrology: table of contents (1r); Conrad Heingarter, *Defensio astronomie* (1r–4r); Gergis, *De significatione septem planetarum in domibus* (5r–7r); **Ptolemaica** (11r–19v); Abraham Avenezra, *Principium sapientie*, tr. Pietro d’Abano (24ra–44vb); *Liber Arzachelis introductorius ad librum iudiciorum Arabum*, attr. Ptolemy ‘Incipit Liber Ptholomei de Yspania qui dictus est Argerzi introductorius...’ (45ra–50vb); Abraham Avenezra, *Liber rationum*, tr. Pietro d’Abano (50vb–58rb); Abraham Avenezra, *Liber nativitatum et revolutionum earum*, tr. Pietro d’Abano (58va–69rb); Abraham Avenezra, *De interrogationibus*, tr. Pietro d’Abano (69va–73ra); Abraham Avenezra, *De electionibus*, tr. Pietro d’Abano (74va–76rb); Bethen, *Centiloquium* (76rb–78va); Abraham Avenezra, *Liber luminarium*, tr. Pietro d’Abano (78vb–80va); Abraham Avenezra, *De mundo vel seculo*, tr. Henry Bate of Mechelen (80va–87ra); Abraham Avenezra, *Tractatus particulares*, tr. Pietro d’Abano (87ra–92rb). Blank: Iv, 4v, 7v–10v, 20r–23v, 92v.

Bibl. L. C. Mohlberg, *Katalog der Handschriften der Zentralbibliothek Zürich, I: Mittelalterliche Handschriften*, Zürich, 1952, 10–11; Préaud 1969, xxi; E. Gagliardi, L. Forrer, *Katalog der Handschriften der Zentralbibliothek Zürich, II: Neuere Handschriften seit 1500*, Zürich, 1982, 294–297; Kristeller 1963–1992, V, 152; *Katalog der datierten Handschriften in der Schweiz in lateinischer Schrift vom Anfang des Mittelalters bis 1550*, III: M. von Scarpatetti, R. Gamper, M. Stähli, *Die Handschriften der Bibliotheken St Gallen-Zürich*, Dietikon-Zürich, 1991, 171 (no. 470).

- 11r–19v ‘... [first five lines mostly illegible] duorum luminarium est res naturalis, tendens versus opus planete habentis participationem cum Sole... (11v) Primum quidem. Capitulum quintum in quo Pto<lomeus> docet cognoscere regiones per loca — nativitatibus et in hoc finitur volumen secundus.’
= **Conrad Heingarter**, *Commentum Quadripartiti Ptholomei* (C.2.10), II.4–13, in a shorter and somewhat modified version. Abrupt beginning due to missing folia. Example added for 1489 on f. 11r: ‘Nunc autem tempore Christi 1489 stant...’. The water damage has affected the top lines of each page of this section. No glosses.

[ZZ] Boncompagni 218

s. XVII² (1658). **Or.:** apparently copied by Jacopo Tassono, great grandson of Giovanni Battista Teofilo. **Prov.:** Rome, Biblioteca Albani (Cod. 275); Baldassarre Boncompagni (1821–1894); lost since it was sold by Boncompagni’s heirs in 1898.

Paper, 356 f., 295 × 220 mm.

Ptolemaica (single text), except for the first folia (1–15), which contain a letter by Pier Matteo Maggio dated Florence 29 September 1703 and accompanied by eight printed pages (numbered 17–20 and 29–32) referred to in the letter in those terms: ‘Altri hanno tentate questa traduzione, come potrete vedere dall’aggiunto foglio che vi mando dell’opera che hà ristampato il Marchetti lettore in Pisa, dove vedrete, che restò sospesa la fatica, perchè avevo io in mano questa traduzione già fatta’ (see Narducci).

Bibl. Narducci 1892, 133; Thomson/Folkerts 2021, 23.

- 16–349 ‘Traductio Theonis super Almageste Ptolemei noviter habita ab excellentissimo domino Johanne Baptista Theophilo civitate Urbinatensi, eiusdem professionis mathematicae celebrissimo explanatore. Sub hac nobiliori forma mox a me Jacopo Tassono eius pronepote redacta anno 1658. Praefatio. Frequentibus auditorum exhortationibus, Epifani fili — angulus eorundem erit 25. 21. 33.’
= **Theon of Alexandria**, (*Commentum in Almagesti*), tr. **Giovanni Battista Teofilo**, (C.1.30.4), Books I–IX.

[ZZ] Boncompagni 219

s. XVIIIⁱⁿ (1717). **Or.:** copied on Giovanni Battista Teofilo’s autograph MS, now ↗Paris, BnF, lat. 7263, for Pope Clement XI. **Prov.:** Baldassarre Boncompagni (1821–1894); lost since it was sold by Boncompagni’s heirs in 1898.

Paper, 404 f. numbered 1–208 and 204–399, 370 × 295 mm.

Ptolemaica (single text), except for a copy of the letter by Camille Le Tellier de Louvois of 1717 (5r), which is also preserved in MS ↗Paris, BnF, lat. 7263 (f. 5).

Bibl. Narducci 1892, 133–34; Thomson/Folkerts 2021, 23.

- 5–391 ‘Theonis Alexandrini in Claudii Ptolemaei *μεγάλην σύνταξιν* commentarius latine versus a Ioan<no> Bapt<ista> Theophilo Urbinate, ex eius autographo, quod in Bibliotheca Regia Parisiensi servatur, accurate descriptus a<nno> d<omini> MDCCXVII. Frequentibus auditorum exortationibus impulsus. Persepe ab auditoribus admonitus, m<i> Epifani fili — angulus eorundem erit 25. 21. 33.’
 = **Theon of Alexandria, *(Commentum in Almagesti)*, tr. Giovanni Battista Teofilo (C.1.30.4)**, Books I–IX.

[ZZ] Conte de Sarzana, no shelfmark

s. XVIⁱⁿ (the second Ptolemaic section was copied sometime after 1510, cf. colophon p. 71; pp. 44–54 were copied in 1510, cf. p. 54: ‘Finis liber Begelli de annulis planetarum, scriptus anno 1510’). **Or.:** Italy.

Paper, 141 pp. (unnumbered, except for the first five pages, numbered by a later hand than that of the scribe), a single hand. One or several folia are missing at the beginning. This entry entirely rests upon Charles Burnett’s description.

Astral magic, mostly rare or unidentified texts: title page with the note ‘XX. Anon. Negromantia’ (1); a text missing the first lines, which is identical with Hermes’s *Secretum de compositione imaginum secundum duodecim horas diei et noctis* as in MS ⁺St Petersburg, BAN, Q. 537, f. 136v–169r (3–31); **Ptolemaica (31–43)**; ‘Incipit libellus de annulis planetarum quem fecit sapiens et in magicis expertissimus vir Begellus omnium disertissimus. Septem sunt stelle erratiles...’ (44–54); **Ptolemaica (55–71)**; Thebit Bencora, *De imaginibus*, variant version ‘Incipit liber prestigiorum Thebit Benchorat viri sapientissimi et in magicis expertissimi. Dixit Thebit filius Corat...’ (71–91); ‘Sequitur oratio dicenda domino Saturni cum vadis ad cubitum...’ (91–94); representation of magical rings (95–97); ‘Incipit liber occultus et preciosus Geberi philosophi in astronomia et magicis expertissimi de operatione figurarum admirabili septem planetarum quem transtulit Ioannes Hispalensis. Antiqui sapientes et philosophi in astrologia...’ (98–130); magical recipes (132–140), including one in Italian (140). Blank: 131.

Bibl. C. Burnett, ‘The Conte de Sarzana Magical Manuscript’, in Burnett 1996, IX (7 pp.); C. Burnett, ‘Thābit ibn Qurra’s *On Talismans* Between the Middle Ages and the Renaissance, and Between the Science of the Stars and Magic’, *BC* 27 (2021), 23–50: 35–37.

- 31–43 ‘Incipit liber Ptolomei de impressionibus imaginum, annulorum et sigillorum secundum facies duodecim figurarum zodiaci. Incipiamus tractare de compositione et impressione imaginum sigillorum et annulorum que possunt feiri Sole existente in quolibet signo secundum gradum et facies singulos secundum afficiam, id est quantitatem effectus superiorum corporum in istis inferioribus, cum auxilio Dei — et est operatio eius in magicis valde mirabilis. Finis.’
 = **Pseudo-Ptolemy, *Liber de impressionibus imaginum, anulorum et sigillorum secundum facies duodecim signorum zodiaci* (B.16)**.

- 55–71 ‘Incipit libellus Ptolomei, inter magos expertissimi, imaginum ad operationem mirabillium effectum utissimus. Ars imaginum est multiplex est ... (?) multa composuerunt (?) et varios modos tradiderunt faciendi et operandi — Adest finis libelli imaginum naturalium quem ego non Pholomir (?) potius (?) Budasiri (?), viri in magicis doctissimi, crediderim, ad Pholemeum (!) quendam forte destinato. Ita in vetustissimo exemplari legisse me memini anno 1510.’
= **Pseudo-Ptolemy, *De imaginibus super facies signorum* (B.14)**, reworking.

[ZZ] olim Maihingen, A.B. VII.3.2^o 7

s. XV or XVI. **Prov.:** library of the princes Öttingen-Wallerstein at Maihingen; the volume was sold in 1936.

Paper. A collection of early printed editions to which was appended a MS containing the Ptolemaic section.

Ptolemaica (single text).

Bibl. G. Grupp, *Öttingen-Wallersteinische Sammlungen in Maihingen, Handschriften-Verzeichnis*, Nördlingen, 1897, 33 (no. 901); Kristeller 1963–1992, III, 570.

- ? ‘... (?)’
= **Georg Peurbach, *Tractatus super propositiones Ptolemei de sinubus et chordis* (C.1.20)**. The text is named ‘Ptolemaeus: de sinulis (!) et chordis, tractatus Purbachii’ by Grupp and ‘G. Peurbach, tractatus super propositiones Ptolemaei de sinubus et chordis’ by Kristeller.

[ZZ] olim Robert B. Honeyman Jr., no. 14

s. XIII¹. **Or.:** the Sotheby’s catalogue (*The Honeyman Collection*) located the MS in northern France, perhaps in Paris, but on the basis of the reproduced page in that catalogue, Georges rather sees an Italian origin for the script and an English or French origin for the decoration. An Italian origin is also suggested by the presence, on pp. 353–354, of the alternative recension of ch. I.1 in al-Ḥajjāj’s version, found in only two other MSS, both copied in Bologna. **Prov.:** Michael Maestlin in 1585 (‘Ex libris M. Michaelis Maestlini Gaepnigenfis 1585’); Wilhelm Schickard in 1631; library of the princes Öttingen-Wallerstein at Maihingen (MS I.2.2^o 19) until the 1930s, when the MS was sold; Robert B. Honeyman Jr., California (no. 14 or Astron. 3); sold by Sotheby’s in London on 2 May 1979 to a private collector.

Parchment, 354 pp., 297 × 204 mm, several hands, 47 lines per page, decorated initial on the first page, initials blue and red, titles in red.

Ptolemaica (single text).

Note Paul Kunitzsch contacted the private owner of the MS, who replied in a letter in May 2016 that the MS was not available for consultation or reproductions. Paul Kunitzsch's own copies of pp. 1–3, 194–212 and 353–354 made in the 1980s (cf. *Der Sternkatalog*, 18 n. 67) seem to be lost. One page of the MS (p. 26) is reproduced in *The Honeyman Collection*.

Bibl. G. Grupp, *Öttingen-Wallersteinische Sammlungen in Maibingen, Handschriften-Verzeichnis*, Nördlingen, 1897, 33 (no. 899); C. U. Faye, W. H. Bond, *Supplement to the Census of Medieval and Renaissance Manuscripts in the United States and Canada*, New York, 1962, 21; *The Honeyman Collection of Scientific Books and Manuscripts*, III: *Manuscripts and Autograph Letters of the 12th to the 20th Century*, Sotheby's sale catalogue, London, 1979, no. 1087; Kunitzsch 1986–1991, II, 18–19; G. Hägele, *Lateinische mittelalterliche Handschriften in Folio der Universitätsbibliothek Augsburg. Die Signaturengruppen Cod. I.2.2^o und Cod. II.1.2^o 1–90*, Wiesbaden, 1996, 63.

1–354 ‘Dictio prima libri Almagesti Ptholomei continens quatuordecim capitula. Quidam princeps nomine Albugaiafe in libro suo... (2) Ecce ubi... Bonum domine fuit... — (352) laudando domini. Expleta est dictio terciadecima libri Ptolomei et cum ea completur liber Almagesti de disciplinalibus. Bonum, o Syre, fuit... (353) Capitulum primum in prologo huius libri. Bonum quod fecerunt illi — consecuti sunt ex eius comprehensione quod oportet.’
 = **Ptolemy, *Almagesti*, tr. Gerard of Cremona (A.1.2)**, Class B. Complete copy opening with the preface and ending with the same two alternative versions of ch. I.1 as found in MSS → Melbourne, SLV, RARES 091 P95A, f. 172va–173ra, and → Cambrai, BM, 953, f. 328ra–329rb. Numerous glosses. The quotations are taken from *The Honeyman Collection* and Kunitzsch.

Appendix: Rejected manuscripts

Avranches, BM, 234: mistaken reference for Avranches, BM, 235, in Carmody 1956, 19 (no. 16).

Basel, UB, F.II.15, s. XV, f. 112v–113v, is listed as containing Pseudo-Ptolemy's *De cometis* (B.4) by Lemay 1999, I, 424, but this is in fact the so-called *Liber de significatione cometarum*, a larger text on comets in 16 chapters, whose first chapter opens with Ptolemy's opinion from *Centiloquium*, 99: 'Incipit tractatus de stellis comatis. Dixit Ptho<lomeus> in 99^o verbo in libello de 100 verbis quod stelle currentes et stelle habentes comas sequuntur alias stellas...'. The *Liber de significatione cometarum* also occurs in MSS *Cambridge, PC, 227, s. XIV–XV, pp. 228a–250b; ↗*Cambridge, UL, Kk 4.7 (2022), s. XIV, f. 101rb–107ra; ↗Oxford, BL, Bodley 472, s. XV, f. 132rb–142ra; and ↗Vienna, ÖNB, 5414, s. XV, f. 148ra–163rb. The text has been edited by L. Thorndike, *Latin Treatises on Comets Between 1238 and 1368 A.D.*, Chigaco, 1950, 16–61 (from the Basel MS and the two MSS marked by an asterisk above).

Cambridge, TC, O.2.40 (1144), s. XV, contains 'Centilogium Tolomei' (158r) and 'Quadripertitum Tholomei' (158v–159v), but these are only chapters within an anthology of astrological authors in Latin and English (150r–159v).

Erlangen, UB, 836 (786), s. XVI, is listed as containing excerpts of Geber's *Liber super Almagesti* (C.1.2) on f. 98v–109r by R. Lorch, 'The Manuscripts of Jābir ibn Aflah's Treatise', in Lorch 1995, VII, 2), but it contains only excerpts from Archimedes. The confusion may come from the fact that this MS contains, on f. 94r–94v, a list of concordances between the chapters of Book I of Geber and other texts, in particular Theodosius, Menelaus and Maurolico: 'Astronomiae Gebri lib<er> I. Propositiones. 1. Prima in lib<ro> Theodosii. 2. Octava, nona, 10, 11, 12, 13, 14, 15 in lib<ro> Theodosii...'. On this MS, copied by Johannes Praetorius, see Müller 1998, 41–42.

London, BL, Sloane 3019, s. XVII, f. 72r–115r, opens 'Aphorismi ex Ptolom<ei> IV Quadripart<iti> text<u> 71. De Saturno. XI. De morte violentii. Saturnus Soli in fixis signis...', but it is a anthology of texts on nativities based on Ptolemy and other authorities.

Madrid, BN, 10010 (olim Toledo 98-24), s. XIII¹, f. 51v–52v: 'Nota in figura tercia decima primi libri Geber quod arcus AG subtensus recto potest esse — sunt equidistantes. Hec probatio est necessaria in figura sectoris.' These notes are part of a

larger set of notes opening ‘Hec probationes sunt necessarie in theoremate undecimo partis secunde libri Theodosii de speris...’ (on which see C.1.2, under Note). This MS (parchment, 86 f.) contains a collection of works of geometry and astronomy translated by Gerard of Cremona, as follows: Theodosius, *Spherica*, tr. Gerard of Cremona (1v–13r); Anaritius [al-Nairīzī], comm. on Euclid’s *Elementa* (13v–36v); Abbacus [Ibn ‘Abd al-Bāqī], *Liber Iudei super decimum Euclidis* (36v–49v); tables and notes of geometry and astronomy (49v–52v), including ‘Nota in figura tercia...’ as above (51v–52v); Menelaus, *Spherica* (53r–68r); ‘Volo ostendere quod omnium linearum proportionalium proportio...’ (68v); Ametus filius Iosephi [Aḥmad ibn Yūsuf], *Liber de proportionem et proportionalitate* (69r–77r); Tres Fratres Filii Moysi [Banū Mūsā], *Verba filiorum Moysi filii Sekir* (77v–83r), with appendix ‘Sit ergo circulus [circulus] ABD in circuitu centri...’ (83r–84r); Thebit Bencora, *Liber carastonis* (84r–86v). It is probably this MS which appears in the 1273 inventory of Gonzalo Pérez, the future archbishop of Toledo, as ‘Alfragano, Teodosio, Anaricio, Mileo, con otros libros de geometria’ if we disregard Alfraganus (R. González Ruiz, *Hombres y Libros de Toledo (1086–1300)*, Madrid, 1997, 442, no. 35; Hernández/Linehan 2004, 483, no. 29). On this MS, see also Millàs Vallicrosa 1942, 208–11 (MS 98–24); Clagett 1964–1984, I, xxix; and *IGMB*, 290. See also the entry for MS → Madrid, BN, 10113.

Paris, BnF, lat. 5925A, s. XV, is said to contain ‘Ptolomaei tabellarum’ and Aimoin of Fleury’s *Historia Francorum* (see Samaran/Marichal 1959–1981, II, 301). The first item (f. 1ra–1vb), entitled ‘Tabula de situ orbis secundum Ptolomeum’ according to the explicit, is excerpted from Ptolemy’s *Geographia*.

Paris, BnF, lat. 14070, s. XIV, f. 144r–174r, contains excerpts of Pseudo-Ptolemy’s *Iudicia* (B.3) (‘Natus sub Ariete multos habet capillos in corpore, corpus curvum, faciem obliquam...’) as part of a later compilation f. 142r–188v.

Paris, BS, 980, f. 59-, listed in C. B. Schmitt and D. Knox, *Pseudo-Aristoteles Latinus. A Guide to Latin Works Falsely Attributed to Aristotle Before 1500*, London, 1985, 36, as containing Pseudo-Ptolemy’s *Iudicia* (B.3), is the old shelfmark for Paris, BnF, lat. 16208.

Seitenstetten, Stiftsbibliothek, 32, s. XV, f. 1ra–76rb, is said to contain the *Centiloquium* in the explicit (‘Explicit Centiloquium Ptholomei cum commento Haly et capitulum de investigatione gradus ascendentis nativitatis cum amphorismis Zael et Messahala in iudiciis astrorum cum questionibus 12 domorum ipsius Haly Abenragel. Amen. In nomine domini amen etc.’), but this is an astrological anthology based on many authors.

Tübingen, Universitätsbibliothek, Mc 283, s. XVI, f. 39r–43v, contains ‘Compendium instrumentarium (?) duodecimi capitis dictionis 5 Almagesti. Inventio maxime latitudinis Lunae per Ptolemeum per instrumentum regularum...’, which summarises the *Almagest*, V.12–13 (f. 39r–40r) and V.1 (f. 40v–43v), among notes on astronomical instruments. On this MS, copied by Johann Scheubel at the University of Tübingen in 1545–1546, see G. Brinkhus, A. Mentzel-Reuters, *Die lateinischen Handschriften der Universitätsbibliothek Tübingen*, II: *Signaturen Mc 151 bis Mc 379 sowie die lateinischen Handschriften bis 1600 aus den Signaturgruppen Mb, Mk und aus dem Druckschriftenbestand*, Wiesbaden, 2001, 172–74.

Vatican, BAV, Reg. lat. 1268, s. XIV, f. 207v–211r, was copied on Madrid, BN, 10010, f. 51v–52v (see above).

Vatican, BAV, Reg. lat. 1696 Mistaken reference for Vatican, BAV, Reg. lat. 1692 in Harper 1966, 17–18.

Zwickau, Ratsschulbibliothek, 35, s. XVI, f. 65r–66v: ‘Ex Ptolomaeo conversa a Rhetico. Ex tertio Ptolomei Μαθηματικῆς συντάξεως deque capite sexton. Dato aequabili motu Solis...’. This is only the beginning of *Almagest* III.5 (not III.6), in what belongs to astronomical lectures (based on many authors, including Copernicus) given by Camerarius and Rheticus at the University of Leipzig in 1548 as part of the student handbook of ‘Philippus Armatopoeus Pegamensis’ (f. Ir). On this MS, see Kristeller 1963–1992, III, 442.

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