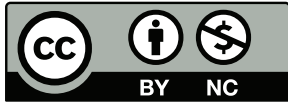


Ancient Greek Mathematics in print,
1475–1703.

A bibliography of the editions of works
other than those of Euclid

Benjamin Wardhaugh

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The editor will be pleased to receive notice of any errors or omissions.

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Introduction

This bibliography lists early modern editions of Greek mathematical works — except those of Euclid — from before *c.* 500CE. It is intended to be of use in work on the early modern reception of ancient mathematical texts, and on the role of those texts in the transformation of European mathematics during the sixteenth and seventeenth centuries. This introduction sets out the methods used in compiling the bibliography and describes the form the records take; it also provides a preliminary discussion of some of the patterns which may be discerned in this set of data, and suggests certain lines of enquiry which may prove fruitful.

There is a good deal of scholarship about the sixteenth-century renaissance of mathematics, ranging from general studies like that of Rose, through studies of single early modern authors, editors or printers like those of Goulding and Oosterhoff, to bibliographies and reception studies dealing with single ancient authors or texts such as the ongoing project on *Ptolemaeus Arabus et Latinus*. Attention to the mathematics of the seventeenth century has focused perhaps more on internal technical transformation and the change in mathematics' epistemic status in relation to natural philosophy: but there is also much scholarship on the seventeenth-century trajectories of ancient mathematical authors including Euclid. In support of this work, and more generally in support of the endeavour to understand the changing relationship of European mathematics to classical Greek texts over the early modern period, it seems desirable to have a comprehensive bibliography of the early printed versions of those texts. This is the need which the present bibliography aims to fill. It attempts to list all of those printed works which might reasonably be called editions of ancient Greek mathematical texts, up to 1703. Such a project raises acute — strictly, I believe, insoluble — problems of definition, which naturally require some comment.

Methods

Authors

The category of mathematical texts and/or mathematical authors is irreducibly problematic, and it is not the intention in compiling this bibliography to minimise its difficulty. What may reasonably be called mathematics or mathematical within the context of Greek intellectual history may or may not have appeared mathematical to editors in Italy, England or the Holy Roman Empire fifteen or twenty centuries later. Similarly, works that early modern editors demonstrably considered mathematical do not always appear so to readers in the twenty-first century.

The starting point for the list of Greek authors to be included was Netz's list (2011, 259) of 29 authors of extant Greek mathematical works. From this list I have excluded Anthemius of Tralles, an author active mainly in the sixth century and whose inclusion would effectively extend the search to Byzantine Greek texts; the latest author included is therefore Eutocius of Ascalon, who died in the 520s. I have added Hipparchus, Menelaus of Alexandria and Proclus Diadochus, who were the authors or attributed authors of mathematical works with some early modern visibility, and also the musical authors Aristoxenus, Bacchius and Cleonides, in order to include the set of Greek musical writings edited by Marcus Meibom and John Wallis during the second half of the seventeenth century. Wallis signalled his categorization of these as mathematical by including his editions of the texts by Ptolemy and Porphyry in his 1699 *Opera mathematica*, and there was of course a long tradition of considering 'harmonics' a mathematical subject even when its treatment made only minimal use of methods from either geometry or arithmetic. (The musical essay attributed to Plutarch is excluded; it is scarcely mathematical in approach and seems not normally to have been grouped with mathematical works in publication: and its inclu-

sion would have required this bibliography to list in excessive numbers the editions of Plutarch's *Opuscula*.) Authors for whom only fragments survive were not included, notably Hippocrates of Chios.

The resulting list of thirty-four Greek authors is given in Table 1.

Texts

For a number of authors on this list, only works unambiguously mathematical in character survive, but for others it seems appropriate to make a selection from the extant texts. No succinct criterion will adjudicate every such case. For Philo of Byzantium, for instance, the non-mathematical (attributed) *Seven wonders of the world* was – I think uncontroversially – excluded. For Aristoxenus, Bacchius and Cleonides, their works on music were included but not any other part of their extant outputs.

Somewhat more problematic are the later Greek authors whose interests spanned mathematics and philosophy. Proclus, for instance, was the author of an important commentary on *Elements* I; he also wrote theological and philosophical works which there is no evidence that early modern editors or readers considered mathematical: nor were they grouped with his mathematical writings within editions of his works. Thus for Proclus, only the *Elements* commentary and the (attributed) astronomical works are included in this bibliography.

Similarly for Porphyry, only the commentary on Ptolemy's *Harmonics* and the (attributed) introduction to the *Tetrabiblos* were considered. And for Nicomachus, among whose extant works the *Introduction to arithmetic* and the *Manual of harmonics* were included and the *Life of Pythagoras* excluded. The fragmentary and variously attributed *Theology of arithmetic*, printed by Wechel in 1543, was after some hesitation excluded, as was Theon of Smyrna's *On Pythagorean harmony*, on the ground that similar works or passages in other Platonic authors (indeed, in Plato) do not seem to have formed part of the early modern category of mathematical writing: they only appeared in collections of

Alypius of Alexandria
 Anatolius of Laodicea
 Apollodorus of Damascus (Apollodorus Mechanicus)
 Apollonius of Perga
 Archimedes of Syracuse
 Aristarchus of Samos
 Aristides Quintilian
 Aristoxenus of Tarentum
 Athenaeus Mechanicus (Athenaeus of Seleucia)
 Autolycus of Pitane
 Bacchius Senior
 Biton of Pergamon
 Cleomedes
 Cleonides
 Damianus/Heliodorus of Larissa
 Diocles
 Diophantus of Alexandria
 Eutocius of Ascalon
 Gaudentius
 Geminus of Rhodes
 Hero of Alexandria
 Hipparchus
 Hypsicles
 Menelaus of Alexandria
 Nicomachus of Gerasa
 Pappus of Alexandria
 Philo of Byzantium (Philo Mechanicus)
 Porphyry of Tyre
 Proclus of Athens (Proclus Diadochus)
 Ptolemy (Claudius)
 Serenus of Antinoöpolis
 Theodosius of Bithynia (conflated with Theodosius of Tripoli)
 Theon of Alexandria
 Theon of Smyrna

Table 1: Greek authors considered for inclusion.

Platonica or Pythagorica and never, to my knowledge, with any title-page assertion of their specifically mathematical interest. The works of a number of other authors containing numerological material, including Iamblichus, Plotinus and Philo of Alexandria, are excluded on similar grounds. This is arguably a regrettable exclusion, tending to separate arithmetic somewhat artificially from numerology: but it is difficult to see how a different decision could have been made without overwhelming this bibliography with editions of the ancient Platonic writings.

Finally, a different situation is presented by Claudius Ptolemy, and a different decision made. His *Harmonics* is included, as mentioned above, and the supreme importance of his astronomical writings for medieval and early modern astronomy make the case for their inclusion overwhelming. But certain of those astronomical works are not of a decidedly mathematical character, and it is also unclear whether or not his *Geography* belongs in the early modern category of mathematical writing. After some hesitation I have included *all* of the works attributed to Ptolemy; a case could be made for excluding certain of the astronomical works, perhaps the *Geography*, and the wholly non-mathematical essay *On the criterion*, but it seems cleaner to include in full someone who was in the early modern period certainly regarded as a major mathematical author. This has the consequence that editions of Ptolemy's *Geography* are included, although no other Greek geographical author appears (no extant text has, in fact, any comparable claim to be considered a mathematical treatment of geography). It also has the consequence that for Ptolemy, works on the largely non-mathematical interpretation of stellar and planetary positions are included, whereas similar works by other authors (the *Phenomena* of Aratus, the *Poeticon astronomicon* of Hyginus, or the *Catasterismoi* of Eratosthenes, for instance) are not. Once again, it is difficult to see that a different decision could have been made without admitting into the bibliography a distractingly large quantity of ancient writing on the subject of stellar mythology, which no early modern editor seems to have called mathematical.

Editions

This bibliography is intended as a companion to *Euclid in Print* (Wardhaugh, Beeley and Nasifoglu 2020: subsequently *EiP*). For the purpose of uniformity with that bibliography, an end date of 1703 was used: this is the date at which the university press at Oxford issued David Gregory’s edition (founded on Edward Bernard’s scholarship) of the *opera omnia* of Euclid. Although it falls well below the level of what would later be called a critical edition, this publication may be said to have marked a new period in the handling of ancient mathematical texts: particularly in that, like John Wallis’s slightly earlier editions of mathematical authors, it both used and named multiple manuscript sources for its readings. (Ironically, though, it includes two works not now attributed to Euclid – the *Catoptrics* of (possibly) Theon and the *Harmonics* of Cleonides – as well as the *Sectio Canonis* whose attribution remains disputed.) It is regrettable, however, that this cutoff prevents a complete listing of the output of the relatively interesting and productive impulse to mathematical classicism at Oxford in the decades around 1700.

Texts in the original Greek or in translation were included in the bibliography, but only printed editions were considered. The period saw the production and in some cases the circulation as manuscripts of many important editions and translations of Greek mathematical works that were *not* eventually printed: prominent examples include the 1490 *Geographia* by Sylvanus (Gautier Dalché 2009, 301) and Bombelli’s 1570 Latin version of the *Arithmetic* of Diophantus (Meskens 2010, 142–6).

Imprints which contain or apparently intend to contain the whole of one or more works by an author in Table 1 were included in the bibliography (in the case of multi-book works, the criterion was the inclusion of the whole of one book). As for *EiP*, the revision or wholesale substitution of proofs was not taken to disqualify a work as an edition in this sense, a prominent case being Isaac Barrow’s 1675 version of works by Archimedes.

Books with other types of relationship to ancient mathematical texts

were excluded: mathematical works whose purpose is to refute or defend specific propositions or methods in the ancient authors, as well as works presenting selected or heavily rearranged portions of an ancient work. (An important instance of the latter phenomenon is the selection of theorems from Archimedes included as an appendix to Tacquet's 1654 edition of the Euclidean *Elements*.) Excerpts of this character were an important part of the early modern visibility of the ancient mathematical authors, but they fall — I think inevitably — outside the scope of the present bibliography. A partial list of works declaring such indirect relationships with ancient mathematical authors is included in Appendix 3.

For the case of Ptolemy (again), the boundary between editions and excerpts proved to be particularly complex. The *Centiloquium* was included, which — while arguably a mere set of extracts — was published, republished and commented on in the early modern period as an independent work of its ancient author. I have excluded, however, the *Compost et kalendrier des bergiers* and its English version the *Compost of Ptolomy*, which were never presented as more than excerpts or compendia from the ancient author's works. Also excluded were the 'Inerrantium stellarum significationes' attributed to Ptolemy, and the 'De eclipsibus' attributed to Proclus. Each was frequently printed, the first in conjunction with editions of Ovid's *Fasti*, the second as an appendix to some of the many editions of Sacrobosco's *Sphaera*. Although they were arguably important for the printed visibility of their authors, these are short texts which seem to fall more naturally into the category of excerpts rather than editions. These four excluded works are noted, and their printings succinctly listed, in Appendix 3.

The bibliography also excludes those *tabulae geographicae* which mention Ptolemy on their title pages but do not include an edition of his text.

Finally, bearing in mind the intention to complement *EiP*, I have excluded early modern imprints whose only ancient mathematical content is an edition of a work by or attributed to Euclid. (The category of Euclidean attributions comprises the *Catoptrics* of Theon, and all but two of the editions of the *Harmonics* of Cleonides; the fourteenth and

fifteenth books of the *Elements*, whether attributed to Euclid or Hypsicles or neither, are likewise included in *EiP*.) Eighteen imprints that, as well as a work by one of the authors listed above, also contain a work of Euclid, were however included here (as well as appearing in *EiP*); sometimes the description has been adjusted in order to clarify more fully the non-Euclidean portion of the contents. (The introduction to Euclid's *Data* by Marinus of Neapolis was not considered here, since it was in practice only printed in conjunction with the *Data* itself.)

Caveat

This bibliography is complete in intention, but it will necessarily prove to be incomplete in fact; indeed, one of its purposes is to provide a basis for further work, which will inevitably make new discoveries using new methods and tools. Searches were carried out in locations including the *Karlsruher Virtueller Katalog*, the *Universal Short-Title Catalogue*, JISC's *Library Hub Discover* and *WorldCat*, and in the separate catalogues of several major research libraries including the Bodleian and the British Library. The *Incunabula Short-Title Catalogue*, the *English Short-Title Catalogue*, and the databases of the *SPHAERA* and *Ptolemaeus Arabus et Latinus* projects were also searched. Stevens' (1907) catalogue of editions of the *Geography*, and all of the relevant articles in the *Catalogus translationum et commentariorum* were also consulted (particular acknowledgement is made to the article on Proclus/Geminus (Todd 2003b), without which it would not have been possible to set out the relationships of the many editions of the *Sphaera*). There are an unknown and unknowable number of relevant early imprints which are not, for various reasons, recorded in those catalogues. There are also an unknowable number of early modern imprints which include one of the works sought but whose title pages do not report the fact, or which report it with such an eccentric spelling or wording as to defeat an approach based on digital searching. One consequence of the methods used to assemble this bibliography, then, is that unattributed works, and works

whose appearance in an imprint is not clearly signalled, are normally likely to have been excluded unintentionally: perhaps the more so for relatively minor works for which no well established Latin title existed in the period.

For both of these reasons, it is all but certain that there are extant imprints falling within the criteria for this bibliography that are not listed here, although – impressionistically – I believe that they are unlikely to amount to more than five or at the very most ten per cent of the number of entries. It is likely, then, that users with special knowledge of the output of particular editors or printers will notice unintended omissions; notice of these and of any other omissions or errors is welcome.

On the positive side, care has been taken to avoid listing bibliographic ‘ghosts’. Every item listed here has been seen either physically or in a digital facsimile of sufficient quality to be certain that the imprint really exists.

Contents

Works

Table 2 provides for each author in Table 1 an alphabetical list of the attributed mathematical works which were found to have received printed editions up to 1703, and which are therefore listed in this bibliography. (Titles are given in the form which seems to be usual in modern English, which in a few cases is either a Latinism or a transliteration from the Greek. During the remainder of this discussion, truncated forms of these English titles will generally be used to save space, particularly within tables.)

The total number of works listed is 75, from 34 authors. The total number of items listed in the bibliography is 305, only about fifteen per cent more than the 263 items listed in *EiP*, and therefore clear evidence that Euclidean texts overwhelmed the contribution of any other author

Alypius: *Introduction to music*.
 Anatolius: *Treatise on the time of the Paschal celebration*.
 Apollodorus: *On siege engines*.
 Apollonius: *Conics*.
 Archimedes: *Book of lemmas* (sp.); *On conoids and spheroids*; *On the equilibrium of planes*; *On floating bodies*; *Measurement of a circle*; *Quadrature of the parabola*; *The sand reckoner*; *On the sphere and cylinder*; *On spirals*.
 Aristarchus: *On the sizes and distances of the Sun and Moon*.
 Aristides Quintilian: *On music*.
 Aristoxenus: *Elements of harmonics*.
 Athenaeus: *On machines*.
 Autolycus: *On the moving sphere*; *On risings and settings of the stars*.
 Bacchius: *Introduction to the art of music*.
 Biton: *Construction of war machines and catapults*.
 Cleomedes: *On the circular motions of the celestial bodies*.
 Cleonides: *Introduction to harmonics*.
 Diophantus: *Arithmetic*; *On polygonal numbers*.
 Eutocius: *Commentary on the Equilibrium of planes of Archimedes*; *Commentary on the first four books of the Conics of Apollonius*; *Commentary on the Measurement of a circle of Archimedes*; *Commentary on the Sphere and cylinder of Archimedes*.
 Gaudentius: *Harmonic introduction*.
 Geminus: *Introduction to the Phenomena*.
 Heliodorus: *Optics*.
 Hero: *Automata*; *Catapults*; *Definitions* (sp.); *Geodesia*; *Measures* (extracts); *Mechanics*; *Pneumatics*; *War machines*.
 Hipparchus: *Commentary on the Phenomena of Eudoxus and Aratus*.
 Hypsicles: *On ascensions*.
 Menelaus: *Spherics*.
 Nicomachus: *Introduction to arithmetic*; *Manual of harmonics*.
 Pappus: *Collection* (III–VIII).
 Philo of Byzantium: *Siege engine construction*.
 Porphyry: *Commentary on the Harmonics of Ptolemy*; *Introduction to the Tetrabiblos of Ptolemy*.

Proclus: *On the astrolabe* (sp.); *Commentary on the Elements of Euclid* (I); *Commentary on the Tetrabiblos of Ptolemy* (sp.); *Exposition of Astronomical Hypotheses*; *On the sphere* (sp.: now attributed to Geminus).

Ptolemy: *Almagest*; *Analemma*; *Canobic inscription*; *Catoptrics* (sp.: now attributed to Hero); *Centiloquium* (sp.); *On the criterion and hegemonikon*; *Geography*; *Harmonics*; *Iudicia* (sp.); *Liber proiectionis* (sp.); *Planetary hypotheses*; *Planisphere*; *Tetrabiblos*.

Serenus: *On the section of a cone*; *On the section of a cylinder*.

Theodosius: *On days and nights*; *On habitations*; *Spherics*.

Theon of Alexandria: *Commentary on the Almagest of Ptolemy* (I); *Commentary on the Phenomena of Aratus*.

Theon of Smyrna: *On mathematics useful for the understanding of Plato*.

Table 2: Works appearing in the bibliography (alphabetical).

to ‘Greek mathematics in print’ in this period. For that very reason, there is value in considering this corpus of texts in isolation, where its characteristics can be distinguished from those of the Euclidean case.

Perhaps the most prominent feature of this table is the presence in it of a number of works which do *not* feature in modern catalogues of their authors’ outputs, or which are there listed as spurious or misattributed. These are marked (sp.) in the table. The most important case is the attribution to Proclus of the *Sphere* consisting of four chapters from the *Introduction* of Geminus, which persisted throughout the period (see Todd 2003b, Biank 2019).

A second feature of this list, less prominent but equally important, is the absence from it of certain authentic works of the authors considered: that is, the absence of those works from early modern print, so far as I can discover. Certain such works are listed in Table 3. It is remarkable that these works, some of which are now considered important parts of their authors’ output, lacked the particular kind of visibility conferred by print in the sixteenth and seventeenth centuries, even though some of them were certainly recopied or circulated in manuscript during the period. The reasons for that absence vary from work to work, and certainly include in some cases the relative scarcity of manuscripts in either Greek or Latin, and in others the perceived obscurity or obso-

Archimedes: *The cattle problem*; *The method of mechanical theorems*; *Stomachion*.
 Diocles: *Burning mirrors*.
 Eutocius: *Introduction to Book I of the Almagest of Ptolemy*.
 Hero: *Geometrica*; *Stereometrica*; *Geoponica*.
 Pappus: *Commentary on Elements X*.
 Philo: *Poliorcetica*.
 Ptolemy: *Arrangement and calculation of the Handy Tables*; *Handy Tables*; *Meteoroscope*; *Optics*.
 Theon of Alexandria: *Commentary on the Data of Euclid*; *Commentary on the Optics of Euclid*; *Great commentary on the Handy tables of Ptolemy*; *Little commentary on the Handy tables of Ptolemy*.

Table 3: Some extant Greek mathematical works not edited by 1703.

lescence of the texts even for those with a philological or antiquarian interest in ancient Greek mathematics. Archimedes' 'Cattle problem' was published in the late eighteenth century (Lessing 1773); the *Mechanical theorems* and *Stomachion* were not published in full until the re-discovery of the celebrated 'Archimedes palimpsest' in the early twentieth century (Heiberg 1907). The *Geometria*, *Stereometrica* and *Geoponica* of Hero do not seem to have been printed until the twentieth century, like the *Poliorcetica* of Philo and the commentaries of Theon on Euclid and Ptolemy, while the introduction to *Almagest* I, attributed to Eutocius by Mogenet in 1956, does not seem to have been published as of 2024. Ptolemy's *Optics* was published in the nineteenth century; the *Meteoroscope* was first read and published in 2023. The *Handy tables* are something of a special case, standing at the head of the traditions of astronomical tables in Arabic and Latin but by the fifteenth century so wholly superseded by their descendants that they were excluded even from complete editions of Ptolemy's works such as the Henricpetri imprint (Basel 1541), and were not eventually published until the twentieth century.

The absence or unavailability of texts in Greek was evidently not a bar to publication in this period, when, as will be noted below, publication in Latin was very much more important: the *Spherics* of Menelaus and the later books of Apollonius' *Conics* were published in Latin versions translated from Arabic, for instance. On the other hand both the *Burning mirrors* of Diocles and Pappus' Commentary on *Elements* X remained unpublished, and one factor contributing to that may have been the absence of Greek texts.

Beyond these initial observations, the wide range of different subjects addressed in these works, and the wide range of purposes for which the printed editions described here were made, complicates any attempt to interpret even the most obvious of the patterns that can be identified.

Certain of those patterns are those which are familiar from other genres of early modern print. Scholars become aware that the libraries to which they have access contain Greek materials worthy of notice: first in Italy, then north of the Alps in France, the Holy Roman Empire, the Netherlands and England. (By contrast with the Euclidean case, there are very few imprints in this bibliography from Scandinavia or the Iberian peninsula.) An emphasis in the early sixteenth century on the status of the individual ancient authors and – at least implicitly – the importance of their re-presentation in print ('Claudii Ptolemei viri Alexandrini Mathematicae disciplinae Philosophi doctissimi'), gives way later in the century to an emphasis on the quality, novelty or diligence ('incredibili labore') of the editorial or translation work or, almost as frequently, the ineptitude of its predecessors. Works are grouped and re-grouped according to the interests of editors and/or the availability of manuscripts, sometimes dissociating them from the other extant works of their ancient authors, or from the contexts that had been provided for them in the middle ages. For the collection(s) of astronomical texts that had long circulated together, it is striking that early modern print retained little trace of their grouping into an organised curriculum.

Work	First printing	Total printings
Alypius, <i>Music</i>	Leiden 1616	2
Anatolius, <i>Paschal celebration</i>	Antwerp 1634	1
Apollodorus, <i>Siege engines</i>	Paris 1693	1
Apollonius, <i>Conics</i> (I–IV)	Venice 1537	9
Apollonius, <i>Conics</i> (V–VII)	Florence 1661	3
Archimedes, <i>Circle</i>	Venice 1503	15
Archimedes, <i>Conoids and spheroids</i>	Basel 1544	8
Archimedes, <i>Equilibrium of planes</i>	Venice 1543	11
Archimedes, <i>Floating bodies</i>	Venice 1543	14
ps.-Archimedes, <i>Lemmas</i>	London 1659	3
Archimedes, <i>Parabola</i>	Venice 1503	10
Archimedes, <i>Sand reckoner</i>	Basel 1544	11
Archimedes, <i>Sphere and cylinder</i>	Basel 1544	10
Archimedes, <i>Spirals</i>	Basel 1544	8
Aristarchus, <i>Sun and Moon</i>	Venice 1498	4
Aristides Quintilian, <i>Music</i>	Amsterdam 1652	1
Aristoxenus, <i>Harmonics</i>	Venice 1562	3
Athenaeus, <i>Machines</i>	Paris 1693	1
Autolycus, <i>Moving sphere</i>	Messina 1558	6
Autolycus, <i>Risings and settings</i>	Paris 1572	3
Bacchius, <i>Music</i>	Paris 1623	3
Biton, <i>War machines</i>	Paris 1693	1
Cleomedes, <i>Circular motions</i>	Brescia 1497	9
Cleonides, <i>Harmonics</i>	Venice 1497	2
Diophantus, <i>Arithmetic</i>	Basel 1575	10
Diophantus, <i>Polygonal numbers</i>	Paris 1621	2
Eutocius, <i>Equilibrium</i> commentary	Basel 1544	1
Eutocius, <i>Circle</i> commentary	Basel 1544	3
Eutocius, <i>Conics</i> commentary	Bologna 1566	2
Eutocius, <i>Sphere</i> commentary	Basel 1544	1
Gaudentius, <i>Harmonic introduction</i>	Amsterdam 1652	1
Geminus, <i>Phenomena</i> introduction	Altdorf 1590	4
Heliodorus, <i>Optics</i>	Florence 1573	4
Hero, <i>Automata</i>	Venice 1589	3
Hero, <i>Catapults</i>	Paris 1693	1

Work	First printing	Total printings
ps.-Hero, <i>Definitions</i>	Strasbourg 1570	3
Hero, <i>Geodesia</i>	Venice 1572	1
Hero, <i>Measures</i> (extracts)	Paris 1688	1
Hero, <i>Mechanics</i>	Strasbourg 1580	1
Hero, <i>Pneumatics</i>	Urbino 1575	10
Hero, <i>War machines</i>	Venice 1572	3
Hipparchus, <i>Phenomena</i> commentary	Florence 1567	3
Hypsicles, <i>Ascensions</i>	Paris 1657	1
Menelaus, <i>Spherics</i>	Messina 1558	4
Nicomachus, <i>Arithmetic</i>	Paris 1538	1
Nicomachus, <i>Harmonics</i>	Leiden 1616	2
Pappus, <i>Collection</i>	Pesaro 1588	6
Philo, <i>Siege engines</i>	Paris 1693	1
Porphyry, <i>Harmonics</i> commentary	Oxford 1699	1
Porphyry, <i>Tetrabiblos</i> introduction	Basel 1559	1
ps.-Proclus, <i>Astrolabe</i>	Venice 1498	6
Proclus, <i>Astronomical Hypotheses</i>	Basel 1540	3
Proclus, <i>Elements</i> Commentary	Basel 1533	2
ps.-Proclus, <i>Tetrabiblos</i> commentary	Basel 1554	4
ps.-Proclus, <i>Sphere</i>	Venice 1499	77
Ptolemy, <i>Almagest</i>	Venice 1515	13
Ptolemy, <i>Analemma</i>	Rome 1562	1
Ptolemy, <i>Canobic inscription</i>	Paris 1663	1
ps.-Ptolemy, <i>Catoptrics</i>	Venice 1518	2
ps.-Ptolemy, <i>Centiloquium</i>	Venice 1484	30
Ptolemy, <i>Criterion and hegemonikon</i>	The Hague 1663	2
Ptolemy, <i>Geography</i>	Vicenza 1475	42
Ptolemy, <i>Harmonics</i>	Venice 1562	3
ps.-Ptolemy, <i>Iudicia</i>	Venice 1509	1
ps.-Ptolemy, <i>Liber proiectionis</i>	Venice 1484	3
Ptolemy, <i>Planetary hypotheses</i>	London 1620	1
Ptolemy, <i>Planisphere</i>	Rome 1507	5
Ptolemy, <i>Tetrabiblos</i>	Venice 1484	23
Serenus, <i>Section of a cone</i>	Bologna 1566	3
Serenus, <i>Section of a cylinder</i>	Bologna 1566	4

Work	First printing	Total printings
Theodosius, <i>Days and nights</i>	Rome 1591	2
Theodosius, <i>Habitations</i>	Messina 1558	7
Theodosius, <i>Spherics</i>	Venice 1518	16
Theon, <i>Almagest</i> commentary	Naples 1605	1
Theon, <i>Phenomena</i> commentary	Venice 1499	2
Theon Smyrna, <i>Mathematics for Plato</i>	Paris 1644	1

Table 4: Works included in the bibliography: dates and numbers of printings.

Chronology

The earliest edition to appear is the version of Ptolemy’s *Geography* which appeared at Vicenza in 1475. As far as I am aware, no work within the scope of this bibliography was printed before that date.

Table 4 provides for each work in Table 2 the date and location of its first appearance in the bibliography, and the total number of its appearances there. (An expanded – and admittedly unwieldy – version of this table appears in Appendix 1, listing for each work *all* of its appearances in the bibliography, with their date and place of imprint, languages and – where known – editor/translator.) It is clear from inspection of this table that certain apparently minor authors such as Cleomedes and Aristarchus began their printed lives well before bigger names such as Apollonius and Pappus. Indeed, no work of Apollonius was printed until 1537; none of Diophantus until 1575 or of Pappus until 1588, more than a century after the first printings of Greek mathematical works in the 1470s and 1480s. These phenomena are the visible outcome of decades of negotiation between the interests of mathematical editors and their access to manuscripts of ancient works: it is certainly the case that the first generation of such editors focussed some of their attention on works with an established circulation in manuscript, such as the *Elements* of Euclid (printed at Venice in 1482) or the *Centiloquium* of ps.-Ptolemy (1484). Yet other editors took apparently equal trouble to put

into print less celebrated works: Georgio Valla, notably, printed minor works by or attributed to Aristarchus, Cleomedes, Cleonides, Euclid and Proclus in his 1498 collection of opuscula. This two-sided picture continued throughout the period, with on the one hand large numbers of editions of texts and authors whose importance was well established, in some cases to supply the market provided by university teaching; but on the other a continuing flow of novel texts, whose history of readership and use in print remains much more obscure. Of those novelties, a few would be established as important and see frequent reprinting: the *Arithmetic* of Diophantus and the *Pneumatics* of Hero are the only two works on this list with a post-1550 *princeps* (1575 in both cases) to have achieved ten or more printings by the end of the seventeenth century. The majority would remain curiosities, receiving few or no subsequent reprintings within the period.

The total numbers of impressions, given in the final column of Table 4, indeed provide a rather vivid sense of this greater attention paid to some works than to others. At one extreme there are the 77 editions of the *Sphere* attributed to Proclus, the 42 of Ptolemy's *Geography*, 23 of the *Tetrabiblos* and 30 of the *Centiloquium*. (It is possible that these numbers are inflated by the relatively well documented state of these particular works' early modern reception, ps.-Proclus being included in the comprehensive SPHAERA database, Ptolemy's astronomical works in PAL and his *Geography* being the subject of both printed and online dedicated bibliographies.) At the other, a total of 24 texts appear to have been printed just once during the period: these include musical works by Aristides, Gaudentius and Porphyry, mechanical works by Athenaeus, Biton, Philo and Hero (several of them printed for the first time only in the 1693 *Veterum mathematicorum opera*, and therefore lacking any real opportunity for reprinting within the scope of this bibliography), plus three other works of Hero. They also include commentaries of Eutocius, Porphyry and Theon (but there was a tendency of early modern editors to absorb the commentaries of Eutocius and perhaps others, with limited or no explicit attribution, meaning that these works had in a sense more printed visibility than a count of their 'editions' can show: see (Hunter, forthcoming)). More surprising are

Period	New texts printed	Total bibliography entries
1475–1499	10	13
1500–1524	7	26
1525–1549	13	60
1550–1574	17	75
1575–1599	7	39
1600–1624	6	31
1625–1649	2	19
1650–1674	6	24
1675–1699	7	16

Table 5: Rates of printing.

the single printings of two works by Ptolemy (*Analemma* and *Planetary hypotheses*) and of the *Arithmetic* of Nicomachus. The last was printed in the sixteenth century and not printed again for over a century, despite the status of Nicomachus’ as the only ancient Greek work on elementary arithmetic to survive. (This is admittedly a special case in that the *Arithmetic* of Boethius may be considered its free translation: yet to my knowledge no edition of that Latin text named Nicomachus on its title page.)

This table also gives a clear sense of the changing rate at which new Greek mathematical works entered print: it can for instance be seen that the number of new texts entering print peaked in the mid-sixteenth century. And it makes it at least impressionistically clear that the centre of activity for these texts remained in northern Italy for many decades, rivalled only by Basel from the 1530s and only displaced by a wider set of locations during the early decades of the seventeenth century. Dividing the period into 25-year sections provides the results shown in Table 5, where it can be confirmed somewhat more precisely that both the rate of publication of this material and the rate at which new Greek mathematical texts were introduced to print peaked in the middle half of the sixteenth century.

(An examination of the publication rate of Euclidean works, documented in *EiP*, shows a different pattern, with the rate of publication reaching 40 items per quarter-century in the period 1550–74 and remaining, albeit with certain lulls, at that level to the end of the seventeenth century. Compare also the rates of publication of commentaries on Sacrobosco’s *Sphere*, which show a peak in the middle decades of the sixteenth century (Valleriani 2020a).)

Languages

Table 6 lists for each work the languages in which it was printed during the period. Table 7 gives, conversely, the number of bibliography entries for each language. This information may conveniently be discussed by separating the ancient languages from the modern.

Of the 75 works appearing in the bibliography, all received an edition in either Greek or Latin: 2 (3%) in Greek alone, 18 (24%) in Latin alone, and 55 (73%) in both languages. The absence of editorial attention to the original Greek of certain texts is striking: the *Conics* of Apollonius for instance, the *Collection* of Pappus, the *Analemma*, *Catoptrics* and *Planisphere* of Ptolemy and the two geometrical works of Serenus were all still awaiting editions in Greek at the end of the seventeenth century, as were several others. Conversely, the two works edited only in Greek were Nicomachus’ *Arithmetic* and Theon’s commentary on the *Phenomena*: the situation with Nicomachus is perhaps partly explained by (as mentioned above) the availability of Boethius’ related Latin *Arithmetic* in print.

Turning from numbers of works to numbers of editions, the dominance of Latin is still clearer. Of 305 editions, 281 (92%) contain either a Greek or a Latin text. Of those 281, 190 (68%) contain Latin alone, 37 (13%) Greek alone, and 54 (19%) both Latin and Greek. This should be compared with the even greater dominance of Latin for Euclidean works, where the 155 printings involving an ancient language comprised 121 (79%) with Latin alone, 30 (19%) with both languages

Work	Languages
Alypius, <i>Music</i>	Greek, Latin
Anatolius, <i>Paschal celebration</i>	Latin
Apollodorus, <i>Siege engines</i>	Greek, Latin
Apollonius, <i>Conics</i>	Latin
Archimedes, <i>Circle</i>	Greek, Latin, German
Archimedes, <i>Conoids and spheroids</i>	Greek, Latin, German
Archimedes, <i>Equilibrium of planes</i>	Greek, Latin, French, German
Archimedes, <i>Floating bodies</i>	Greek, Latin, English, French, Italian
ps.-Archimedes, <i>Lemmas</i>	Latin
Archimedes, <i>Parabola</i>	Latin, Greek, German
Archimedes, <i>Sand reckoner</i>	Greek, Latin, German
Archimedes, <i>Sphere and cylinder</i>	Greek, Latin, French, German, Italian
Archimedes, <i>Spirals</i>	Greek, Latin, German
Aristarchus, <i>Sun and Moon</i>	Greek, Latin
Aristides Quintilian, <i>Music</i>	Greek, Latin
Aristoxenus, <i>Harmonics</i>	Greek, Latin
Athenaeus, <i>Machines</i>	Greek, Latin
Autolycus, <i>Moving sphere</i>	Greek, Latin, French
Autolycus, <i>Risings and settings</i>	Greek, Latin, French
Bacchius, <i>Music</i>	Greek, Latin
Biton, <i>War machines</i>	Greek, Latin
Cleomedes, <i>Circular motions</i>	Greek, Latin
Cleonides, <i>Harmonics</i>	Latin
Diophantus, <i>Arithmetic</i>	Greek, Latin, Dutch, French
Diophantus, <i>Polygonal numbers</i>	Greek, Latin
Eutocius, <i>Circle</i> commentary	Greek, Latin
Eutocius, <i>Conics</i> commentary	Latin
Eutocius, <i>Equilibrium</i> commentary	Greek, Latin
Eutocius, <i>Sphere</i> commentary	Greek, Latin
Gaudentius, <i>Harmonic introduction</i>	Greek, Latin
Geminus, <i>Phenomena</i> introduction	Greek, Latin
Heliodorus, <i>Optics</i>	Greek, Latin, Italian
Hero, <i>Automata</i>	Greek, Latin, Italian
Hero, <i>Catapults</i>	Greek, Latin
ps.-Hero, <i>Definitions</i>	Greek, Latin

Work	Languages
Hero, <i>Geodesia</i>	Latin
Hero, <i>Measures</i>	Greek, Latin
Hero, <i>Mechanics</i>	Latin
Hero, <i>Pneumatics</i>	Greek, Latin, German, Italian
Hero, <i>War machines</i>	Greek, Latin
Hipparchus, <i>Phenomena</i> commentary	Greek, Latin
Hypsicles, <i>Ascensions</i>	Greek, Latin
Menelaus, <i>Spherics</i>	Latin
Nicomachus, <i>Arithmetic</i>	Greek
Nicomachus, <i>Harmonics</i>	Greek, Latin
Pappus, <i>Collection</i> (III–VIII)	Latin
Philo, <i>Siege engines</i>	Greek, Latin
Porphyrus, <i>Harmonics</i> commentary	Greek, Latin
Porphyrus, <i>Tetrabiblos</i> introduction	Greek, Latin
ps.-Proclus, <i>Astrolabe</i>	Latin
Proclus, <i>Elements</i> commentary	Greek, Latin
ps.-Proclus, <i>Tetrabiblos</i> commentary	Greek, Latin, English
Proclus, <i>Astronomical Hypotheses</i>	Greek, Latin
ps.-Proclus, <i>Sphere</i>	Greek, Latin, English, French, Italian
Ptolemy, <i>Almagest</i>	Greek, Latin
Ptolemy, <i>Analemma</i>	Latin
Ptolemy, <i>Canobic inscription</i>	Greek, Latin
ps.-Ptolemy, <i>Catoptrics</i>	Latin
ps.-Ptolemy, <i>Centiloquium</i>	Greek, Latin, French
Ptolemy, <i>Criterion and hegemonikon</i>	Greek, Latin
Ptolemy, <i>Geography</i>	Greek, Latin, Italian, Portuguese
Ptolemy, <i>Harmonics</i>	Greek, Latin
ps.-Ptolemy, <i>Iudicia</i>	Latin
ps.-Ptolemy, <i>Liber proiectionis</i>	Latin
Ptolemy, <i>Planetary hypotheses</i>	Greek, Latin
Ptolemy, <i>Planisphere</i>	Latin, Italian
Ptolemy, <i>Tetrabiblos</i>	Greek, Latin, French
Serenus, <i>Section of a cone</i>	Latin
Serenus, <i>Section of a cylinder</i>	Latin
Theodosius, <i>Days and nights</i>	Greek, Latin

Work	Languages
Theodosius, <i>Habitations</i>	Greek, Latin, French
Theodosius, <i>Spherics</i>	Greek, Latin, French
Theon, <i>Almagest</i> commentary	Latin
Theon, <i>Phenomena</i> commentary	Greek
Theon Smyrna, <i>Mathematics for Plato</i>	Greek, Latin

Table 6: Languages in which the works appeared.

and just 4 (3%) with Greek alone: indeed, the *Elements* itself received just two complete printings in Greek in this period. The substantial preference for Latin over Greek is not hard to relate to the distribution of linguistic competences in early modern Europe, but it is nevertheless not always really clear what constituency of buyers/readers existed or was thought to exist for whom Latin translations of these specific texts would be of interest. The fact is, however, that early modern experiences of this corpus of texts were primarily in Latin: implying that the distinction between texts originally composed in Greek and those of Latin origin – between works of Proclus and Sacrobosco, say – was for early modern readers less prominent than it is to the modern historian, perhaps less important than their consistency in subject matter and its handling. (An interesting side-effect is that for at least some texts – the *Automata* of Hero is an example (Grillo 2019, xxviii) – early Latin translations were based on Greek exemplars that cannot now be identified, and therefore provide independent critical information about the Greek texts).

As to modern languages: of the 75 works considered, 22 received editions in modern languages; all 22 were among those that were also printed in Latin, and all but one – the *Planisphere* of Ptolemy – were also printed in Greek. The languages concerned were Dutch, English, French, German, Italian and Portuguese (the absence of Spanish translations is a notable contrast with the Euclidean case). To the best of my knowledge, no translation into any other European language within the scope of this bibliography was printed before 1703, nor was any trans-

Language	Number of imprints
Greek only	37
Greek and Latin	54
Latin only	190
Italian	23 (o/w 2 Latin and Italian)
French	13 (o/w 2 Latin and French)
German	8
English	4
Dutch	2
Portuguese	1

Table 7: Number of bibliography entries for each language.

lation of Greek mathematics into a non-European language printed in that period except for the translation of *Elements* I—VI into Mandarin (printed at Beijing in 1607 and subsequently) and the ps.-Tusi redaction of the *Elements* in Arabic (printed by the Medici press at Rome in 1594).

The authors receiving modern-language translations (some were partial translations) were Archimedes, Autolycus, Diophantus, Heliodorus, Hero, ps.-Proclus, Ptolemy and Theodosius. Most of the 22 texts in question were translated into only one modern language: the exceptions were ps.-Proclus’ *Sphere* with versions in English, French and Italian, Ptolemy’s *Geography* (Italian and Portuguese), Hero’s *Pneumatics* (German and Italian), Diophantus’ *Arithmetic* (French and (book 1 only) Dutch), and three works of Archimedes. *On floating bodies* appeared in Italian, English and French; *On the sphere and cylinder* in Italian, French and German; *On the equilibrium of planes* in French and German. Even these small numbers are quite substantially the consequence of just two short concentrations of translation effort: Sturm’s 1670 German edition of several of the works of Archimedes, and the evidently fairly determined – if not explicitly coordinated – work of French translators including Forcadel and Vinet during the

1550s, 60s and 70s who worked on Autolycus, Ptolemy, Theodosius and Archimedes. And once again, a look at Table 7 emphasises the dominance of Latin with respect to numbers of printings rather than numbers of texts. Of the 305 editions listed in the bibliography, only 51 (17%) involve a modern language (and four of those involve it in conjunction with Latin). This is overall a very different pattern from that for Euclidean works, for which 42% of editions in this period involved a modern language: for *Elements* I–VI in particular there were multiple distinct translations into each of Dutch, English, French, German, Italian and Spanish. On the other hand, the minor works of Euclid and the books of the *Elements* less important for university teaching (VII–X, XIII) show a similar pattern to the works included in the present bibliography, with a small number of vernacular versions dominated by a very few translators.

Our uncertainty about the actual market and readership for these vernacular translations is for most texts even more acute than that for their Latin versions: although paratexts provide some hints about the intended buyers of such projects as the German works of Archimedes, we know practically nothing about how these works were really purchased, read and used.

The ‘supply’ side of this phenomenon of Greek mathematics printed in languages other than Greek also involves important areas of uncertainty. To judge by their statements in paratexts, many translators wished it to be assumed that they had worked from a Greek exemplar either in print or in manuscript: but fewer actually did so, and a few acknowledged openly that their source (for revision or translation as the case might be) was an existing Latin version: for instance Mattiolo, translating Ptolemy’s *Geography* into Italian from the Latin of Sebastian Münster (Venice 1548). Translation directly from Greek into a modern language seems in fact to have been unusual, and few imprints stated unambiguously that it had taken place. On the other hand, translation from one vernacular into another was not unknown, as for instance Salisbury’s English translation of Archimedes’ *Floating bodies*, done from the Italian of Tartaglia (London 1661–65). Translation from an Arabic version of a text originally composed in Greek remained

sufficiently unusual to attract prolonged paratextual comment, and in practice occurred only when no Greek text was known to exist (such as for the later books of Apollonius' *Conics*).

Variability of texts

The question naturally arises for the more frequently printed works whether these represent reimpressions – perhaps only slightly modified – of a single version of the text, or whether at least some of these texts existed in markedly divergent printed versions in the early modern period, as did Euclid's *Elements*. A full discussion would require careful collation and comparison of the versions of specific texts; only the most preliminary remarks can be made here, drawing attention to a few phenomena of note.

The first generation of printings of Greek mathematical texts, from the 1470s to perhaps the 1520s, was split in the main between medieval Latin versions of the texts and new Latin translations from the Greek. The case of the *Elements* is a paradigm: Campanus of Novara's thirteenth-century version was printed at Venice in 1482; the new Latin version by Bartolomeo Zamberti in 1505, with both of those texts reprinted over the next several decades. For the *Tetrabiblos* and *Centiloquium*, the first printings (in 1484) were similarly of the existing Latin versions by Johannes Hispalensis and Plato Tiburtinus; these were rivalled over the following decades by new Latin translations including the 1535 printing of Camerarius' versions. In the context of these early printings of medieval Latin versions of the Ptolemaic texts (and not otherwise), their traditional accompaniments from the medieval curricula, namely the Arabic commentators, in Latin, were sometimes printed with them.

For Ptolemy's *Geography* a similar phenomenon is visible, with the Latin text of Jacobus Angelus (early fifteenth-century) only gradually supplanted by the several new versions retranslated from the Greek. In the case of Ptolemy's (attributed) *Catoptrics* a thirteenth-century

Latin text was printed in 1518 and not superseded within the period of this bibliography; in this and perhaps other cases the decision to use an existing Latin text was most likely forced by the unavailability of manuscripts in Greek.

Certain of the new Latin versions made in the middle half of the sixteenth century seem to have acquired a particular authority, in some cases because of the association of their authors with the schools or curricula of particular religious orders. For Euclid the dominance of the version by Christoph Clavius (1538–1612) is well documented, and was mediated by the Jesuit education system across much of Europe and even into east Asia. From the same period, the versions by Federico Commandino (1509–1575) not just of Euclid but also of Archimedes, Ptolemy, Apollonius, Eutocius and Serenus achieved a long-lived visibility; Commandino was still being named on the title pages of mathematical editions in the 1690s. And a still more striking case is that of Francesco Maurolico (1494–1575), whose versions of Theodosius, Menelaus and Autolycus were published in 1558 and republished in 1626, while his versions of several works by Archimedes were rediscovered and published in 1685. His relatively free editions indulged in reorganisation and reconstruction of certain parts of their contents. The Maurolican tradition, named as such, seems to have had for some later editors a distinct authority precisely because of the striking distinctiveness of its texts and diagrams (on the latter see Malpangotto 2010).

By the seventeenth century, or even the second half of the sixteenth, certain texts thus existed in two or three (or more) different versions possessing different kinds of authority. For some texts a Greek printed edition also existed, and some editors in some locations had the option of consulting Greek texts in manuscript. For the Euclidean case, it is becoming clear that early modern editors of Latin versions of the texts became accustomed to respond to this situation by consulting multiple sources, in a process in which the fluidity and malleability of mathematical text as experienced by readers began to – so to speak – leak into the practice of mathematical editing (Wardhaugh 2021, 2025). It seems likely that translators into vernacular languages did likewise, and it is all but certain that these phenomena were not limited to the

Elements of Euclid but also affected other Greek mathematical texts in print. Editors of Archimedes' *Measurement of a circle*, for instance, had by the mid-seventeenth century the possibility of consulting nine existing Latin versions including those by Gaurico, Tartaglia, Commandino, Roomen and Rivault, and detailed collation of texts is likely, I believe, to reveal a multi-source approach being taken by the later editors of this text.

A different kind of variation among the versions of these texts was created by editorial practices whose motivations may be characterised as mathematical rather than philological. In the case of the *Elements*, it was not uncommon for editors to take the view that only the statements of propositions were essential to the text, and that definitions, axioms and proofs might be more or less freely replaced. Their justifications included on the one hand the desire to present an edited text with a high(er) degree of logical or philosophical coherence, or of greater pedagogical utility, but also the widespread belief that the proofs in the received text were the work of Theon of Alexandria, not of Euclid. For other Greek mathematical works, some of the same arguments could also be made, and there are to be found early modern versions in which definitions/axioms and/or proofs have been removed, replaced or substantially modified. The work of Isaac Barrow (1630–1677) is one of the most prominent examples, who edited works of Archimedes, Apollonius and Theodosius in 1675. Barrow's proofs not only present a very different appearance on the page from most predecessors due to his dense use of symbols to abbreviate the text: they also present in many cases new strategies of proof compared with any earlier version of the texts. Barrow's practices and motivations deserve closer study, as do the related practices of other editors particularly during the seventeenth century, which can certainly be related to the ongoing transformation of ideas about the nature of mathematics and its methods.

This work of reconstructing the proofs from first principles or on pedagogical or other grounds is adjacent, perhaps, to the work undertaken by a number of early modern scholars to reconstruct lost mathematical books from Greek antiquity. For reasons that are not immediately clear, much of this attention focussed specifically on the

lost works of Apollonius, which attracted reconstructions or comments thereon from Alexander Anderson, Marino Ghetaldi, Willebrord Snell and François Viète between 1600 and 1615. The belief that mathematics, being logical, can be usefully reconstructed from slender evidence is one that would persist into the twentieth century in the context of the reconstruction of lost Greek mathematics such as that of the geometrical authors before Euclid. In relation to that belief, the differences between the Apollonius reconstructions of different editors are striking. The fact that such a belief was widely held, and by some of the most important mathematical editors of the period, is surely relevant to their practices when handling less ostensibly problematic texts, and may shed light on other forms of variation between edition and edition: not only the wide variability in detail of the early modern *Elements*, but also for instance the relationship between the Maurolican tradition and others for Archimedes, or the several competing Latin texts of works by Ptolemy.

In their more extreme forms these practices of textual and mathematical revision cast some doubt on whether the category of ‘edition’ can be given a clean boundary at all. Indeed – and as Appendix 3 shows – a large penumbra surrounded the category of editions of Greek mathematical texts: works intended to extend, refute, explain or comment on ancient texts, on selections, or even on single propositions from them, or concerned to defend or attack ancient mathematical methods more holistically, as well as excerpts, reworkings and reconstructions. For the readers and users of the early modern texts of, say, Apollonius or Archimedes, the variability of those texts must have given rise to a sense of instability and an awareness of the necessity of choosing between, for instance, Barrow’s Archimedes and Maurolico’s: a situation which should certainly be related to the variability and malleability which mathematical readers themselves were accustomed to impose on the texts they handled.

Concluding notes

The printed versions of ancient Greek mathematical texts were crucial sources for the early modern transformation(s) of mathematics in respect of its methods, its contents, and its epistemic status. Few of those who innovated in those respects in the sixteenth and seventeenth centuries are likely to have been unacquainted with the works of Euclid, Apollonius and Archimedes; few with a serious interest in mathematics in the seventeenth century are likely to have ignored the now-published parts of the work of Pappus and Diophantus. In some cases – such as those of Isaac Barrow and John Wallis (1616–1703) – the experience of editing and reconstructing Greek mathematical works certainly informed the original mathematical work they subsequently undertook. In many others – such as the celebrated case of Pierre de Fermat (1601–1665) – reading and annotating printed editions of ancient mathematics stimulated new mathematical thinking. We have cases such as John Aubrey’s anecdote about Thomas Hobbes as witness to the fact that a printed edition of an ancient mathematical text could stimulate productive reflection on the nature of mathematical proof itself. And it is virtually a truism that the rediscovery and early modern reappropriation (arguably, the creative misreading) of the methods of Archimedes, in particular, led a re-evaluation of acceptable methods of proof in the area of non-finite processes and quantities. (And see for example Weiss 2011 on the wide range of uses readers made of printed editions of the *Geographia*.)

This bibliography, it is hoped, will enable these processes to be studied with more precision, and with a more complete view of their textual basis. The early modern phenomenon of Greek mathematics in print was not limited to a small number of key texts by a few major authors, but ranged in fact across thirty-five authors and more than eighty texts (including those of Euclid). Many of those texts were visible in print in multiple languages or in multiple, rival versions whose characteristics and differences are likely themselves to have been stimulating (as

well as, perhaps, troubling or confusing) for readers. We have now, at least in a preliminary form, a tool for investigating the range and the variability of Greek mathematics in print up to 1703.

The observations made above have drawn attention to a few areas in which I believe further work will be valuable; it is certain, however, that it is the questions which cannot now be anticipated which will prove to be the most fruitful.

- How did publishers and editors select mathematical texts to edit and/or translate? What were the distinctive agendas of mathematical editors after the first generation, and what motivated the differences of practice among them?
- What, if any, were the accepted limits of editorial practice in the mathematical case? How were ‘reconstructions’ of lost books or replacements of extant proofs justified? To what extent was the malleability of the mathematical text explicitly theorized by editors?
- What was the ongoing importance of manuscript versions once a given mathematical text had begun to appear in print? What was the relationship between manuscript and print in sustaining distinctive traditions for certain works? (A thorough census of sixteenth- and seventeenth-century manuscripts of ancient mathematical works is a long-standing desideratum, and although the *Catalogus translationum et commentariorum* in particular provides lists of manuscripts for some authors, there is much work still to be done.)
- Who were the purchasers, readers and users of Greek mathematics in print? What did readers do to/with these books, and how did that vary across Greek, Latin and vernacular editions? How did readers respond to the variability shown among the editions of the same mathematical text?
- How far, and how explicitly, were the introduction of novelties into the content and the practice of early modern mathemat-

ics motivated by ancient models? In particular, what – if any – was the importance of ancient texts beyond the ‘big five’ (Euclid, Apollonius, Archimedes, Pappus, Diophantus) in motivating mathematical innovation?

Using the bibliography

The bibliography may be used simply to check the existence or the details of a specific early modern edition; it is anticipated that users will also be interested in more general questions about the appearance in print of the works of a given ancient author or the role of a given early modern editor or printer in the reception of ancient mathematical texts. The bibliography and its appendices are set out in a way intended to facilitate such research without needlessly constraining the questions that may be asked.

The form of entries is intended to be self-explanatory. Each record begins with a unique identifier such as ‘Vicenza 1475’, used in cross-references within the bibliography (for this purpose, imprint date and location are preferred to those of colophon where both are present). Editions are ordered by year of publication, then by city. Where one city produced multiple editions in the same year, editorial judgement is used to arrive at an order, signalled for instance by Basel 1540, Basel 1540a.

The bibliography provides transcriptions of title (or incipit in the case of incunabula lacking a title page), imprint and/or colophon where these are present; epigrams and mottoes within or without a printer’s device are not included, nor are the various forms of words signalling civil or ecclesiastical permission to print. Half-titles are not transcribed in addition to main title pages unless there is some special point of interest.

Capitalization and diacritics are retained; so are the ligatures *æ*, *œ* and *β*. The pseudo-scribal abbreviations adopted by some early modern printers are expanded using italics: namely the overbar and tilde denoting various omitted letters, the decorated *p* denoting variously *pre*, *pro* or *per*, the slashed or decorated *q* denoting the suffix *-que*, and various forms of single-character *et*. Other abbreviations are not expanded. Other typographical conventions such as the ligatures for *ti*, *fi* and more rarely *tz* are expanded silently, as are all ligatures in Greek;

the appearances of *CIO* and *IO* in imprint dates are transcribed as *M* and *D* respectively. Many printers of the period possessed in italics three distinct types of *u/v* of which one is clearly a *v*, one clearly a *u*, and one ambiguous. I have transcribed the ambiguous type as *u* or *v* according to whether the context requires a vowel or a consonant. Differences between italic and roman, red and black, and the occasional use of superscript are neglected. Transcriptions do not distinguish between long and short *s*; nor do they preserve line breaks or their associated hyphens.

The notes which follow the transcription indicate the physical format of the edition and which of the texts in Table 2 it includes (using the forms of their titles given there), in which language(s), and who had editorial responsibility for this printing (if that is known).

Further notes give other information known to me but not stated on the title page or in the colophon, including the names of dedicatees and the dates in dedications, epistles, and in the various forms of permission to print (privilège, imprimatur, license, and so on), and relationships with previous editions, or the status of the edition as the first – or the first in a given language – for the text in question. (It is emphasised that for the *Geography* the notes specify the editors and antecedents of the text rather than the maps, which have a complex history of their own: see (Stevens 1973) and (Map Forum 2022)). Works contained in the edition which are not the subject of this bibliography (that is, not ancient, not Greek, or not mathematical) are briefly noted when they are of particular interest. If the mathematical works have separate title pages — particularly if these have imprint details differing from the main title page — these are reported and, usually, transcribed. The notes also mention certain related imprints reported in library or union catalogues whose existence I have not been able to confirm.

Reissues with a different date or place of issue from the first are listed under their own heading. Variants, where known, with smaller differences — such as a different list of printers or publishers in the imprint — are indicated in the notes, though variants have not been systematically searched for.

Finally each entry gives citations of the edition, if any, in the *Uni-*

versal Short-Title Catalogue (USTC), and where relevant the *Incunabula Short-Title Catalogue* (ISTC), *English Short-Title Catalogue* (ESTC), *SPHAERA* database (SPHAERA), *Euclid in Print* (EIP) and *Ptolemaeus Arabus et Latinus* (PAL) (it should be noted that the latter is an ongoing project scheduled to finish in 2038; some of its data is in an early-release form at the time of writing).

As mentioned above, Appendix 1 provides an index of the works included: that is, a list for each work of the editions included in the bibliography, using the form of reference described above. For convenience, the main editor's name and the language of the edition are also given, and first printings in a given language are distinguished by the use of bold type. A concise list of the first printings of each work appears above in Table 4. And Appendix 2 provides an index of the early modern author/editors named in the bibliography entries, with the editions on which they worked and the texts included in those editions.

Acknowledgements

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For access to rare books I am grateful to the libraries and librarians of the Warburg Institute, the Historic Library of the Royal College of Physicians, the British Library and the Bodleian Library. The University of Oxford and the National Library of Scotland provided much-appreciated access to digital resources. I am particularly grateful to staff at the following libraries who provided photographs of rare

or unique books or other information about their holdings: the Adler Planetarium, Chicago; the Biblioteca Classense, Ravenna; the Bibliothek der Universiteit van Amsterdam; Durham University Library; Glasgow University Library; the Koninklijke Bibliotheek van België; the National Library of Scotland; the Sächsische Landesbibliothek – Staats- und Universitätsbibliothek, Dresden; and the Thüringer Universitäts- und Landesbibliothek, Jena. My thanks also to Matteo Valleriani at the *SPHAERA* project of the Max-Planck-Institut für Wissenschaftsgeschichte, for help with certain particularly obscure imprints.

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Bibliography

Vicenza 1475

CLAVDII PTOLEMAEI COSMOGRAPHIAE LIBRI PRIMI CAPITA

Colophon: En tibi lector Cosmographia Ptolemæi ab Hermano leuilapide Coloniensi Vicenciæ accuratissime impressa. Benedicto Triuisano: & Angelo Michaelæ præsidibus. .M. CCCC. LXXV. IDI. SEPT.

Octavo. Ptolemy, *Geography*, Latin, ed. Angelus Vadius and Barnabas Picardus. Text based on the translation of Jacobus Angelus (Jacopo d'Angelo). The colophon date is 13 September 1475. The first printing of the *Geography*.

References: ISTC ip01081000. USTC 991739.

Bologna 1477

Tabulas Cosmographiæ secundum dimensiones Ptolomei impressas tibi quisquis es Nobilium operum studiose:

Colophon: CLAVDII PTOLAMAEI ALEXANDRINI COSMOGRAPHIAE OCTAVI ET VLTIMI LIBRI FINIS. Hic finit Cosmographia Ptolemei impressa opera dominici de lapis ciuis Bononiensis ANNO. M. CCCC. LXII. MENSE IVNII. XXIII. BONONIE

Folio. Ptolemy, *Geography*, Latin, ed. Angelus Vadius. Dedication, unsigned and undated, to 'Alexander V' (*i.e.* Alexander VI). A revision by various hands of the translation of Jacobus Angelus; a distinct text from that of **Vicenza 1475**. The date in the colophon has been misprinted for M. CCCC. LXXVII: see (Skelton 1963a). Different (now superseded) reconstructions of the correct date result in this imprint sometimes being catalogued with date 1472 or 1482.

References: ISTC ip01082000. USTC 991738.

Rome 1478

CLAVDII PTHOLEMEI ALEXANDRINI PHILOSOPHI COSMOGRAPHIA.

Colophon: CLAVDII PTOLEMAEI ALEXANDRINI PHILOSOPHI GEOGRAPHIAM ARNOLDVS BVCKINCK E GERMANIA ROME TABVLIS AENEIS IN PICTVRIS FORMATAM IMPRESIT. SEMPITERNO INGENII ARTIFICIIQVE MONVMENTO. ANNO DOMINICI NATALIS. M. CCCC. LXXVIII. VI. IDVS OCTOBRIS. SEDENTE SIXTO. IIII. PONT. MAX. ANNO EIVS. VIII.

Folio. Ptolemy, *Geography*, Latin, ed. Domizio Calderino. Revised from the translation of Jacobus Angelus. Another independent version of this text. Epistle to the Holy Father, *i.e.* Alexander VI.

References: ISTC ip01083000. USTC 991737.

Florence c. 1482

IN QVESTO VOLVME SI CONTENGONO SEPTE GIORNATE DELLA GEOGRAPHIA DI FRANCESCO BERLINGERI FIORENTINO ALLO ILLVSTRISSIMO FEDERIGO DVCA DVRBINO

Folio. Ptolemy, *Geography* (I–VII), Italian (verse), tr. Francesco Berlinghieri. With additions by Marsilio Ficino. Dated before 10 September 1482 by the death on that date of the dedicatee, Duke Federico of Urbino. The first printing of the *Geography* in a modern language. See ISTC and the secondary literature cited there for the identification of the printer as Nicolaus Laurentii.

References: ISTC ib00342000. USTC 996966.

Ulm 1482

CLAVDII PTHOLOMEI VIRI ALEXANDRINI COSMOGRAPHIE LIBER PRIMVS INCIPIT

Colophon: CLAVDII PTOLOMEI VIRI ALEXANDRINI COSMOGRAPHIE OCTAVVS ET VLTIMVS LIBER EXPLICIT OPVS DONNI NICOLAI GERMANI SECVNDVM PTOLOMEVM

FINIT. ANNO M CCCC LXXXII. AVGVSTI VERO KALENDAS. XVII. IMPRSSVM VLME PER INGENIOSVM VIRVM LEONARDVM HOL PREFATI OPPIDI CIVIS.

Folio. Ptolemy, *Geography*, Latin, ed. Nicolaus Germanus. Another revision of the text of Jacobus Angelus. Dedication to Paul II by Nicolaus Germanus. There are at least three variants: see Skelton 1963b and Stevens 1907.

References: ISTC ip01084000. USTC 748348.

Venice 1484

Liber Quadripartiti Ptolomaei id est quattuor tractatum:

Colophon: Liber Ptholomei quattuor tractatum: cum Centiloquio eiusdem Ptholomei: et commento Haly: feliciter finit. Impressum in Uenetijs per Erhardum ratdolt de Augusta. Die. 15. mensis Januarij. 1484.

Octavo. Ptolemy, *Tetrabiblos*, *Liber proiectionis*, *Centiloquium* (sp.), Latin, ed. Erhard Ratdolt. The *Tetrabiblos* is in the version of Plato of Tivoli; the *Centiloquium* is incorporated into the commentary by Abuiafar Hamet filius Joseph, translated by Plato of Tivoli. The first printing of any of these texts.

References: ISTC ip01088000. USTC 991735. PAL 24.

Ulm 1486

REGISTRVM ALPHABETICVM SVPER OCTO LIBROS PTOLOMEI INCIPIT FELICITER.

Colophon: IMPRESSVM VLME OPERA ET EXPENSIS IVSTI DE ALBANO DE VENETIIS PER PROVISOREM SVVM IOHANNEM REGER. ANNO. DOMINI. M. CCCC. LXXXVI. XII. KALENDAS. AVGVSTI.

Folio. Ptolemy, *Geography*, Latin, ed. Nicolaus Germanus. Page-for-page reimpression of Ulm 1482, with some additional text: see (Skelton 1963b).

References: ISTC ip01085000. USTC 748349.

Rome 1490

REGISTRVM ALPHABETICVM SVPER OCTO LIBROS
PTOLOMEI INCIPIT FELICITER.

Colophon: HOC OPVS PTHOLOMEI MEMORABILE QVIDEM
ET INSIGNE EXACTISSIMA DILIGENTIA CASTIGATVM
IVCONDO QVODAM CARACTERE IMPRESSVM FVIT ET
COMPLETVM ROME ANNO A NATIVITATE DOMINI.
M. CCCC. LXXXX. DIE. IV. NOVEMBRIS. ARTE AC IMPENSIS
PETRI DE TVRRE.

Folio. Ptolemy, *Geography*, Latin, ed. Nicolaus Germanus. Reimpression
of Ulm 1482/1486.

References: ISTC ip01086000. USTC 991736.

Venice 1493

Liber quadripartiti Ptholemei. Centiloquium eiusdem. Centiloquium
hermetis. Eiusdem de stellis beibenijs. Centiloquium bethem. *et de*
horis planetarum. Eiusdem de significatione triplicitatum ortus. Cen-
tum quinquaginta *propositiones* Almansoris. Zahel de interrogation-
ibus. Eiusdem de electionibus. Eiusdem de *temporum* significationibus
in iudicijs. Messahallach de receptionibus planetarum. Eiusdem de in-
terrogationibus. Epistola eiusdem *cum* duodecim capitulis. Eiusdem de
reuolutionibus annorum mundi.

Colophon: Uenetijs per Bonetum locatellum: impensis nobilis viri Oc-
tauiani scoti ciuis Modoetiensis. M. CCCC. LXXXIII. *inum.* kalen-
das Januarias.

Folio. Ptolemy, *Tetrabiblos*, *Liber proiectionis* (sp.), *Centiloquium* (sp.), Latin,
ed. Hieronymus Salius Faventinus (Girolamo Salio). Dedication by Faventi-
nus to Dominic Maria de Anuaria of Ferrara, undated. The *Tetrabiblos* and

Liber proiectionis are incorporated into the commentary by Ali ibn Ridwan; the *Centiloquium* into the commentary by Abuiafar Hamet (both commentators are called ‘Haly’ in this Latin text).

References: ISTC ip01089000. USTC 991734. PAL 2.

Brescia 1497

Si bono litterarum studio delectaris suauiissime lector. Volumen istud lectioni tuæ sæpius occurrat facito. eo enim continentur: Cleomedis de contemplatione orbium excelsorum disputatio: Aristidis: & Dionis de concordia orationes. Plutarchi præcepta connubialia. Eiusdemque de uirtutibus morum. Quæ omnia legentis animum & præcipue delectant: & maximopere exornant: eumque perbelle: optimeque componunt. Vale.

Colophon: Impræssum Brixie. per Bernardinum misintam sumptibus Angeli Britannici Ciuis Brixiani anno. M. cccc. lxxxvii. die. iii. Aprilis.

Octavo. Cleomedes, *On the circular motions of the celestial bodies*, Latin, ed. Charolus Valgulus (Carlo Valgulo). The Cleomedes has a dedication by Valgulus to Caesar Borgia, undated. Other works have dedications to Francesco Todeschini-Piccolomini, Alexander VI and Giovanni Borgia. The first printing of this text.

References: ISTC ic00741000. USTC 995663.

Venice 1497

Hoc in uolumine hæc opera continentur. Cleonidæ harmonicum introductorium interprete Georgio Valla Placentino. L. Vitruuii Pollionis de Architectura libri decem. Sexti Iulii Frontini de Aquæductibus liber unus. Angeli policiani opusculum: quod Panepistemon inscribitur. Angeli Policiani in priora analytica prælectio. Cui Titulus est Lamia.

Colophon: Impressum Venetiis per Simonem Papiensem dictum Biuilaquam Anno ab incarnatione: M. CCCC. LXXXVII. Die Tertio

Augusti.

Folio. Cleonides, *Introduction to harmonics*, Latin, ed. Giorgio Valla. Dedication by Valla to Magnifico Victori Pisano. The first printing of this text, and unusual in attributing the text (correctly) to Cleonides; most editions down to the end of the seventeenth century would attribute it to Euclid. (Because the Euclidean attribution is absent, this edition does not appear in *EiP*.)

The reported colophon appears at the end of the Vitruvius text.

References: ISTC ic00742000. USTC 995662.

Venice 1498

Georgio Ualla Placentino Interprete. Hoc in volumine hec continentur Nicephori logica Georgij valle libellus de argumentis Euclidis quartus decimus elementorum Hypsiclis interpretatio eiusdem libri euclidis Nicephorus de astrolabo Proclus de astrolabo Aristarchi samij de magnitudinibus & distantijs solis & lune Timeus de mundo Cleonidis musica Eusebii pamphili de quibusdam theologicis ambiguitatibus Cleomedes de mundo Athenagore philosophi de resurrectione Aristotelis de celo Aristotelis magna ethica Aristotelis ars poetica Rhazes de pestilentia Galenus de in equali distemperantia Galenus de bono corporis habitu Galenus de confirmatione corporis humani Galenus de presagitura Galenus de presagio Galeni introductorium Galenus de succidaneis Alexander aphrodiseus de causis febrium Pselus de victu humano.

Colophon: Impressum Venetiis per Simonem Papiensem dictum Beuilaquam. 1498. Die ultimo Septembris

Folio. ps.-Proclus, *On the astrolabe*; Aristarchus, *On the sizes and distances of the Sun and Moon*; Cleonides, *Introduction to harmonics*; Cleomedes, *On the circular motions of the celestial bodies*. All Latin, ed. Giorgio Valla. Dedicated to Joannes Petrus Valla. First printing of the Aristarchus and Proclus texts; the Cleonides text is reprinted from **Venice 1497**. The Aristarchus bears a dedication to Johannes Badaurus. Also contains, in Latin, ps.-Euclid, *Elements* XIV (in two versions, one attributed to Hypsicles), and works by or attributed

to Nicephorus Gregoras, Georgio Valla, Timaeus, Eusebius Caesariensis, Athenagoras, Aristotle, Rhasis, Galen, Alexander Aphrodisius and Michael Psellus.

References: ISTC in00044000. USTC 992882. EiP Venice 1498a.

Venice 1499

Iulii Firmici Astronomicorum libri octo integri, & emendati, ex Scythicis oris ad nos nuper allati. Marci Manilii astronomicorum libri quinque. Arati Phænomena Germanico Cæsare interprete cum commentariis & imaginibus. Arati eiusdem phænomenon fragmentum Marco. T. C. interprete. Arati eiusdem Phænomena Ruffo Festo Auienio paraphraste. Arati eiusdem Phænomena græce Theonis commentaria copiosissima in Arati Phænomena græce. Procli Diadochi Sphæra græce. Procli eiusdem Sphæra, Thoma Linacro Britanno interprete.

Colophon: [after Firmicus] IVLII Firmici, Materni Iunioris siculi. V. consularis, Ad Mauortium Lollianum, Matheseos libri explicant, Venetiis in ædibus Aldi Romani mense Iunio. M. ID.

[end of volume] Venetiis cura, & diligentia Aldi Ro. Mense octob. M. ID.

Folio. Theon of Alexandria, *Commentary on the Phenomena of Aratus*, Greek; ps.-Proclus, *On the sphere*, Greek and Latin, ed. Aldus Manutius. The first printing of either text; the Latin version of the *Sphere* is by Thomas Linacre and bears his dedication to Arthur, Prince of Wales. Also contains Manilius, *Astronomia* in Latin and Aratus, *Phenomena* in Greek and Latin. Dedication by Manutius to Duke Guido Pheretrio of Urbino (Guidobaldo da Montefeltro) dated at Venice on the 17 October 1499. There is a second dedication by Pescennius Franciscus Niger to Ippolito d'Este, dated from Ferrara 'Caluas neronias quarto Calen.' 1497, and certain letters by and to Manutius dated in 1499.

Sometimes catalogued with the title *Scriptores astronomici veteres* or *De nativitatibus libri VIII* (as in the USTC).

References: ISTC if00191000. USTC 767402. SPHAERA 10000.

Wittenberg 1502

SPHAERA PROCLI DIADOCHI SPHAERA: ASTRONOMIAM
DISCERE INCIPIENTIBVS VTILISSIMA: THOMA LINACRO
BRITANNO INTERPREDE: AD ARCTVRVM CORNVBIE: VAL-
LAEQVE ILLVSTRISSIMVM PRINCIPEM.

Colophon: Impressum Albiori anno a natali Christiano Quingentesimo secundo supra Millesimum Nono Kalendas Ianuarias.

Quarto. ps.-Proclus, *On the sphere*, Latin. The translation of Linacre (see **Venice 1499**), with the dedication to Arthur, Prince of Wales. For the identification of Albiorum with Wittenberg see <https://data.cerl.org/thesaurus/cnl00032005>.

References: USTC 694351. SPHAERA 10001.

Leipzig 1503

Procli Diadochi Sphaera Astronomiam discere incipientibus vtilissima
Thoma Linacro Britanno Interprete: ad Arcturum: Cornubie Vallieque
illustrissimum Principem.

Quarto. ps.-Proclus, *On the sphere*, Latin. The translation of Linacre (see **Venice 1499**), including the dedication to Arthur, Prince of Wales.

Placed in Leipzig and attributed to Martin Landsberg as printer, *c.* 1500, by ISTC and USTC. Placed in 1503 by Todd (2003b), citing evidence that it is based on **Wittenberg 1502**.

References: ISTC ip01005300. USTC 748331. SPHAERA 10068.

Venice 1503

Tetragonismus idest circuli quadratura per *Campanum* archimedem
Syracusanum atque boetium mathematicae perspicacissimos adinuenta.

Colophon: Impressum Venetiis per Ioan. Bapti. Sessa. Anno ab incarnatione Domini. 1503. Die 28. augusti.

Quarto. Archimedes, *Measurement of a circle, Quadrature of the parabola*, Latin, ed. Luca Gaurico. The first printing of these texts. Also contains works on the same subjects attributed to Boethius and to Campanus of Novara. Epistle to the reader by Gaurico dated 18 May 1503.

References: USTC 818222.

Venice 1503a

Iulii Firmici Astronomicorum libri octo integri, & emendati, ex Scythicis oris ad nos nuper allati. Marci Manilii astronomicorum libri quinque. Arati Phænomena Germanico Cæsare interprete cum commentariis & imaginibus. Arati eiusdem phænomenon fragmentum Marco. T. C. interprete, Arati eiusdem Phænomena Ruffo Festo Auienio paraphraste. Arati eiusdem Phænomena græce Theonis commentaria copiosissima in Arati Phænomena græce. Procli Diadochi Sphæra græce. Procli eiusdem Sphæra, Thoma Linacro Britanno interprete.

Colophon: [after Firmicus] IVLII Firmici. Materni Iunioris siculi. V. consularis, Ad Mauortium Lollianum, Matheseos libri explicant. Impressum Rhegii Lingobardiæ expensis & labore Francisci Mazalis calchographi diligentissimi. .M. D. III. Cal. Augusti, [end of volume] Venetiis cura, & diligentia Aldi Ro. Mense octob. M. ID.

Folio. Theon of Alexandria, *Commentary on the Phenomena of Aratus*, Greek; ps.-Proclus, *On the sphere*, Greek and Latin, ed. Aldus Manutius. Reissue of **Venice 1499**, with the Firmicus text (only) re-set line for line with a new set of woodcut illustrations. The Proclus text is in the translation of Thomas Linacre and bears his dedication to Arthur, Prince of Wales. The colophon words ‘Rhegii Lingobardiæ’ are likely to place the re-setting in Reggio Emilia (see <https://data.cerl.org/thesaurus/cnl00027275>), but I do not regard this as certain.

References: USTC 829983, 829984. SPHAERA 10036.

Rome 1507

IN HOC OPERAE HAEC CONTINENTVR GEOGRAPHIA CL. PTHOLEMAEI A plurimis uiris utriusque linguae doctiss. emendata: & cum Archetypo graeco ab ipsis collata. SChemata cum demonstrationibus suis correcta a Marco monacho Caelestino Beneuentano: & Ioanne Cota Veronensi uiris Mathematicis consultissimis. Flgura de proiectione Sphaerae in plano quae in libro octauo desiderabantur ab ipsis nondum instaurata sed fere adinuenta: eius. *enim* uestigia in nullo etiam graeco codice extabant. SEx tabulae nouiter confectae *videlicet* Hispaniae: Galliae: Liuoniae: Germaniae: Poloniae: Vngariae: Russiae: & Lituaniae: Italiae: & Iudae: MAXima quantitas dierum ciuitatum: & distantiae locorum ab Alexandria Aegypti cuiusque ciuitatis quae in aliis codicibus non erant. PLANISphaerium CL. Ptholemæi nouiter recognitum & diligentiss. emendatum a Marco monacho Caelestino Beneuentano.

Colophon: Explicit Planisphaerium Ptholemæi recognitum diligentissime a Marco Beneuentano Monacho Caelestinorum quod antea in multis etiam antiquis exemplaribus latinis corruptissimum reperiiebatur. Nec non Claudii Ptholemæi a plurimis uiris utriusque linguae doctiss. emendatum cum multis additionibus Romae Nouiter impressum per Bernardinum Venetum de Vitalibus. Expensis Euangelista Tosino Brixiano Bibliopola. Imperante Iulio. II. Pont. Max. Anno. III. Pontificatus sui. Die. VIII. Septembr. M. D. VII.

Octavo. Ptolemy, *Geography*, Latin, ed. Marco Beneventano and Joannes Cotta Veronensis (Giovanni Cotta); *Planisphere*, Latin, ed. Marco Beneventano. Dedication by Evangelista Tosinus, dated at Rome on 13 August 1507. A second dedication is signed by Evangelista Brixianus; the papal license to print is dated 28 July 1506.

The first printing of the *Planisphere*; the translation is that of Hermann of Carinthia. The reported colophon appears at the end of the *Planisphere*. Stevens (1907) reports that some copies have the world map by Ruysch, from the 1508 reissue (**Rome 1508**), added to them.

References: USTC 851474. PAL 81.

Rome 1508

IN HOC OPERE HAEC CONTINENTVR GEographiæ Cl. Ptolemæi a plurimis uiris utriusque linguæ doctiss. emendata: & cum archetypo græco ab ipsis collata. SChemata cum demonstrationibus suis correcta a Marco Beneuentano Monacho cælestino & Ioanne Cotta Veronensi uiris Mathematicis consultissimis. Fīgura de projectione sphaeræ in plano quæ in libro octauo desiderabatur ab ipsis nondum instaurata sed fere ad inuenta eius. *enim* uestigia in nullo etiam græco codice extabant. MAXima quantitas dierum civitatum: & distantiae locorum ab Alexandria Aegypti cuiusque ciuitatis: quæ in alijs codicibus non erant. PLANisphærium Cl. Ptolemæi nouiter recognitum & diligentiss. emendatum a Marco Beneuentano Monacho caelestino. NOua orbis descriptio ac noua Oceani nauigatio qua Lisbona ad Indicum peruenitur pelagus Marco Beneuentano monacho cælestino ædita. NOua & uniuersalior Orbis cogniti tabula Ioan. Ruysch Germano elaborata. SEX Tabulæ nouiter confectæ uidelicet Liunioniæ: Hyspaniæ: Galliæ: Germaniæ: Italiæ: & Iudeæ.

Imprint: ANNO VIRGINEI PARTVS M D VIII. ROME

Colophon: Explicit Planisphærium Ptholemæi recognitum diligentissime a Marco Beneuentano Monacho Cælestinorum quod antea in multis etiam antiquis exemplaribus latinis corruptissimum reperiēbatur. Nec non Claudii Ptholemæi a plurimis uiris utriusque linguæ doctiss. emendatum cum multis additionibus Romæ Nouiter impressum per Bernardinum Venetum de Vitalibus. Expensis Euangelista Tosino Brixiano Bibliopola. Imperante Iulio. II. Pont. Max. Anno. III. Pontificatus sui. Die. VIII. Septembr. M. D. VII.

Octavo. Ptolemy, *Geography*, Latin, ed. Marco Beneventano and Joannes Cotta Veronensis (Giovanni Cotta); *Planisphere*, Latin, ed. Marco Beneventano. Slightly expanded reissue of **Rome 1507**, with dedication now dated 13 August 1508 but retaining the papal license to print dated 28 July 1506. The ‘Noua orbis descriptio’ of Beneventano and the ‘Noua & uniuersalior Orbis cogniti tabula’ of Ruysch are new (see Stevens 1907, also Gautier Dalché 2009, 300).

The translation of the *Planisphere* is that of Hermann of Carinthia. The

reported colophon appears at the end of the *Planisphere*. Various catalogued as 1507 or 1508.

References: USTC 851481, 851474. PAL 81.

Venice 1509

Sacratissime Astronomie Ptholemei Liber diuersarum rerum: Quem scripsit ad Heristhonem filium suum: tractans compendiose de diuersis rebus: vt habetur in tabula que est in principio istius libri.

Imprint: M.D.VIII. Foelicibus Astris Prodeat in Lucem Ductu Petri Liechtenstein.

Colophon: Explicit Liber diuersarum rerum Ptholemei philudiensis Alexandrini Astronomorum principis clarissimi. Anno virginei par-tus. 1509. die tertio Aprilis. Uenetijs In aedibus Petri Liechtenstein Coloniensis Germani.

Folio. ps.-Ptolemy, *Iudicia*, Latin, ed. Petrus Liechtenstein. The first printing of this text.

References: USTC 851482. PAL 66.

Venice 1511

CLAVDII PTHOLEMAEI ALEXANDRINI LIBER GEOGRAPHIAE CVM TABVLIS ET VNIVERSALI FIGVRA ET CVM ADDITIONE LOCORVM QVAE A RECENTIORIBVS REPERTA SVNT DILIGENTI CVRA EMENDATVS ET IMPRESSVS

Colophon: Venetiis per Iacobum Pentium de leucho Anno domini. M. D. XI. Die. xx. Mensis Martii.

Folio. Ptolemy, *Geography*, Latin, ed. Bernardus Sylvanus. Dedication by Sylvanus to Andreas Matthaeus Aquaevivus, undated. Text and maps are frequently bound and catalogued separately.

References: USTC 851475.

Vienna 1511

PROCLI DIADOCHI SPHAERA. ASTROnomiam discere incipientibus utilissima. Thoma Linacro Britanno interprete. APENDICVLA. G. T. COLLIMITII DE ORTV & occasu Siderum, ut est apud poetas. Varronem. Columellam, Pliniumque, & cæteros.

Colophon: Viennæ Pannoniæ, per Hieronimum Vietorem & Ioannem Singrenium. Mense Nouemb. ANNO. M. D. XI.

Quarto. ps.-Proclus, *On the sphere*, Latin, ed. Georgius Tannstetter Collimitius (Georg Tannstetter). The translation is that of Linacre. Verse to the reader by Joannes Abhauser (on the title page). Dedication by Collimitius (Georg Tannstetter) to Joachim Vadian dated at Vienna on 12 November 1511.

References: USTC 686901. SPHAERA 10002.

Kraków 1512

Procli Diadochi Sphera Thomae Linacro Britanno interprete.

Colophon: Finis adest feliciter. Anno virginiei partus. M. D. xij. Tercio Nonas Julias

Quarto. ps.-Proclus, *On the sphere*, Latin, ed. ?Florian Ungler. The translation is that of Linacre. The only copy known to me is in the Biblioteka Narodowa, Poland, and lacks a title page. The library catalogue supplies the title (above) and the imprint details: 'Impressum Cracouie: per Florianum Vnglerium, (5 VII 1512)'.

References: USTC 240521. SPHAERA 10041.

Naples 1512

PONTANI COMMENTATIONES SVPER CENTVM SENTENTIIS PTOLEMAEI

Colophon: Neapoli Ex officina Sigismundi Mayr Germani: summo ingenio artificis: Ioannetto Salodio: Hieronymo Taegio & Petro Kirchberg ministris. An. M D XII. Ac fideliter omnia ex archetypis Pontani ipsius manu scriptis: quæ Neapoli in bibliotheca diui Dominici cuncta seruantur. Curauit rem diligenter P. Summontius Petro Rosa: Dionæo Tornaquintio: & Io. Vincentio Summontio coadiutoribus.

Folio. ps.-Ptolemy, *Centiloquium*, Latin, ed. Giovanni Pontano (Joannes Jovianus Pontanus). The text is incorporated into Pontano's commentary. Addressed by Pontano to Federico, duke of Urbino.

References: USTC 850311. PAL 97.

Strasbourg 1513

Claudii Ptolemei viri Alexandrini Mathematicae disciplinae Philosophi doctissimi Geographiae opus nouissima traductione e Graecorum archetypis castigatissime pressum: caeteris ante lucubrationum multo praestantius.

Colophon: ANNO CHRISTI OPT. MAX. M D XIII. MARCII XII. Pressus hic Ptolemaeus Argentinae vigilantissima castigatione, industriaque Ioannis Schotti urbis indigenae. REGNANTE MAXIMILIANO CAESARE SEMPER AVGVSTO.

Folio. Ptolemy, *Geography*, Latin, ed. Jacobus Aeszler and Georg Übelin. Dedication to Joannes Franciscus Picus Mirandulae (Gianfrancesco Pico della Mirandola) by Aeszler, dated on 1 September 1508. A second dedication to the Emperor Maximilian by Aeszler and Übelin is dated at Strasbourg on 15 March 1513 (see further Gautier Dalché 2009, 308).

References: USTC 622790.

Nuremberg 1514

In hoc opere haec continentur Noua translatio primi libri geographiæ Cl. Ptolomæi: quæ quidem translatio verbum: habet e verbo fideliter

expressum: Ioanne Vernero Nurenbergensis. interprete. In eundem primum librum geographiæ Cl. Ptholomæi: argumenta. paraphrases. quibus idem liber per sententias: ac summatim explicatur: & annotationes eiusdem Ioannis Veneri. Libellus de quatuor terrarum orbis in plano figurationibus ab eodem Ioanne Vernero nouissime compertis & enarratis. Ex fine septimi libri eiusdem geographiæ Cl. Ptolomæi super plana terrarum orbis descriptione a priscis instituta geographis. Locus quidam, noua translatione, paraphrasi: & annotationibus explicatus: quem recentium geographorum: vt ipsorum id pace dicam, nemo hucusque sane ac medullitus intellexit. De his quæ geographiæ debent adesse: Georgii Amirucii Constantinopolitani opusculum. In idem Georgii Amirucii opusculum, Ioannis Veneri Appendices. Ioannis de Regiomonte epistola. ad Reuerendissimum patrem & dominum Bessarionem Cardinalem Nicenum, ac Constantinopolitanum patriarcham de compositione & vsu cuiusdam meteoroscopii.

Colophon: Explicit geographicus hic liber: per ipsius compositorem: atque per Conradum Heinfogel artium & philosophiæ magistrum: diuique Maximiliani Imperatoris Capellanum. Et haud mediocrem mathematicum fideliter emendatus recognitusque. Necnon a Ioanne Stuchs Nurenbergæ impressus. Anno domini nostri Iesu christi. Millesimoquingentesimodecimoquarto. pridie nonas Nouembris phebe ad Iouis contubernium defluente.

Folio. Ptolemy, *Geography* (I), Latin, ed. Ioannes Verner (Johannes Werner). The imperial license to print is dated 19 December 1512; Werner's dedication is dated at Nuremberg in 1514.

References: USTC 669005.

Venice 1515

Almagestum CL. Ptolemei Pheludiensis Alexandrini Astronomorum principis: Opus ingens ac nobile omnes Celorum motus continens.

Imprint: Felicibus Astris eat in lucem: Ductu Petri Liechtenstein Coloniensis Germani. Anno Virginei Partus. 1515. Die. 10. Ja.

Uenetijs ex officina eiusdem litteraria.

Colophon: Ingenio labore & sumptibus Petri Liechtenstein Coloniensis. Anno Uirginei Partus. 1515. Die. 10. Janua. Uenetijs.

Folio. Ptolemy, *Almagest*, Latin. The first printing of the *Almagest*; the translation is that of Gerard of Cremona. Petrus Liechtenstein signs his epistle to the reader from Venice on 10 January 1515.

References: USTC 851483. PAL 1.

Paris 1516

Procli Diadochi Sphaera Thoma Linacro Britanno interprete.

Colophon: Gilles de Gourmont.

Quarto. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Gilles de Gourmont. The translation is that of Linacre. The decorative printer's colophon does not contain a location or date, and this imprint is variously dated 1516 (USTC 183683) and 1536 (USTC 147154); a record in *WorldCat* based on a copy in Berlin gives the date 1549. Todd (2003b) places it in 1508–1516 on the basis of other evidence for the printer's address.

References: USTC 147154, 183683.

Venice 1518

Sphaera cum commentis in hoc volumine contentis. videlicet. Cichi Esculani cum textu Expositio Joannis Baptiste Capuani in eandem Jacobi Fabri Stapulensis Theodosij de Speris Michaelis Scoti *Quaestiones Reuerendissimi domini Petri de Aliaco &c.* Roberti Linchonien-sis Compendium Tractatus de Sphaera solida Tractatus de Sphaera Campani Tractatus de computo maiori eiusdem Disputatio Joannis de monte regio Textus Theorice cum expositione Ioannis Baptiste Capuani Ptolomeus de Speculis

Colophon: Uenetijs impensa heredum quondam Domini octauiani Scoti Modoetiensis: ac sociorum. 19. Januarij. 1518

Folio. ps.-Ptolemy, *Catoptrics*; Theodosius, *Spherics*. Both Latin. The Theodosius text is in the translation attributed to Plato of Tivoli (Malpangotto 2010, 77, with note 6, and p. 78 on the attribution itself). A note at the end of the Ptolemy text records that the translation was completed on 31 December 1269.

Both the Ptolemy and the Theodosius occur separately catalogued, but *cf.* **Venice 1518a**, a distinct printing of the Theodosius text. This is the first printing of the *Spherics*, and either this or **Venice 1518a** is the first printing of the *Catoptrics*.

References: USTC 854128.

Venice 1518a

Sphera mundi noviter recognita cum commentarijs & authoribus in hoc volumine contentis *videlicet*. Cichi Eschulani cum textu Ioannis Baptiste Capuani Iacobi Fabri Stapulensis Theodosii de Spheris cum textu Michaelis Scoti questiones Petri de Aliaco Cardinalis *Quaestiones* Roberti Linconiensis Compendium Theodosij iterum de spheris cum textu Tractatus de Sphera solida Theorice planetarum conclusiones cum expositione Campani Tractatus de Sphera Eiusdem tractatus de computo maiori Ioannis de monte regio in cremonensem disputatio Theorice Textus cum Ioannis Baptiste Capuani expositione Ptolomeus de Speculis Theorica Planetarum Ioannis Cremonensis: plurimum faciens ad disputationem ioannis de monte regio: quam in alijs hactenus impressis non reperies.

Colophon: Uenetijs impensis nobilis viri domini Luce antonij de giunta Florentini. Die vltimo Junij. 1518.

Folio. Theodosius, *Spherics*; ps.-Ptolemy, *Catoptrics*. Both Latin. The first item in the volume is the 1506 inaugural lecture of Bartolomeo Vespucci given at Padua, which may indicate that he had editorial responsibility for the texts. The translation of Theodosius is that attributed to Plato of Tivoli (Malpangotto 2010, 77, with note 6, and p. 78 on the attribution itself).

References: USTC 854129.

Paris 1519

Quadripartitum iudiciorum opus Claudij Ptolemei Pheludiensis. ab Joanne Sieurreo brittuliano Bellouacensi perbelle recognitum.

Colophon: Uenundantur Parhisiis in edibus ioannis de Porta in vico sancti ioannis Lateranensis sub signum diue virginis marie et in vico cirhare in officina libraria vico mathurinorum directe opposita.

Quarto. Ptolemy, *Tetrabiblos*, Latin, ed. Joannes Sieurreus. Dedication by Sieurreus to Seraphinus Tyllettus, dated 'Ex edibus nostris Nauarricis' on 21 September 1519. The translation is that of Plato of Tivoli.

References: USTC 181934. PAL 69.

Venice 1519

CENTVM PTOLEMAEI SENTENTIAE AD SYRVM FRATREM
À PONTANO È GRAECO IN LATINVM TRALATAE, ATQVE
EXPOSITAE. EIVSDEM PONTANI LIBRI XIII. DE REB.
COELESTIBVS. LIBER ETIAM DE LVNA IMPERFECTVS.

Colophon: VENETHIS IN AEDIBVS ALDI, ET ANDREAE
SOCERI, MENSE SEPTEMB. M. D. XIX.

Octavo. ps.-Ptolemy, *Centiloquium*, Latin, ed. Giovanni Pontano. Reimpression of **Naples 1512**, issued as the third volume of Pontano's *Opera omnia* (USTC 850317). The Ptolemaic text is incorporated into Pontano's commentary.

References: PAL 53.

Venice 1519a

Quadriparti. Ptolo. Que in hoc volumine continentur hec sunt. Liber quadripartiti Ptolomei. Centiloquium eiusdem. Centiloquium Hermetis. Eiusdem de stellis beibenijs. Centiloquium Bethem. *et* de horis planetarum. Eiusdem de significatione triplicitatum ortus. Centum

quinquaginta *propositiones* Almansoris. Zahel de interrogationibus. Eiusdem de electionibus. Eiusdem de *temporum* significationibus in iudicijs. Mesahallach de receptionibus planetarum. Eiusdem de interrogationibus. Epistola eiusdem cum duodecim capitulis. Eiusdem de reuolutionibus annorum mundi.

Colophon: Uenetijs mandato ac sumptibus heredum nobilis viri Domini Octauiani Scoti ciuis ac patritius Modoetiensis & sociorum. Anno virginei partus saluberrimi. 1519. sexto februarij.

Folio. Ptolemy, *Tetrabiblos*, *Liber proiectionis* (sp.), *Centiloquium* (sp.), Latin, ed. Hieronymus Salius Faventinus (Girolamo Salio). Reimpression of **Venice 1493**, retaining the undated dedication by Faventinus to Dominic Maria de Anuaria of Ferrara, thus with the *Tetrabiblos* and *Liber proiectionis* incorporated into the commentary by Ali ibn Ridwan and the *Centiloquium* incorporated into the commentary by Abuiafar Hamet.

References: USTC 851476, 851484. PAL 4.

Florence 1520

CENTVM PTOLEMÆI SENTENTIAE AD SYRVM FRATREM
À PONTANO È GRAECO IN LATINVM TRALATAE ATQVE
EXPOSITAE. LIBER ETIAM DE LVNA IMPERFECTVS.

Colophon: Florentiæ per hæredes Philippi Iuntæ. Anno Domini. M. D. XX. Die Sextadecima Iulij. Leone X. Pont. Max.

Octavo. ps.-Ptolemy, *Centiloquium*, Latin, ed. Giovanni Pontano. Part 3 of the new edition of Pontano's *Opera omnia*; thus a reimpression of **Venice 1519** containing the text of **Naples 1512**, and retaining the dedication to Federico Duke of Urbino; the Ptolemaic text is, as before, incorporated into Pontano's commentary.

References: PAL 96.

Strasbourg 1520

PTOLEMAEVVS AVCTVS RESTITVTVS. EMACVLATVS. CVM
TABVLIS VETERIBVS AC NOVIS.

Colophon: Ioannes Scotus, Argentorati literis excaepit. 1520.

Folio. Ptolemy, *Geography*, Latin, ed. Gregorius Lilius (Gregorio Giralaldi Giglio). Reimpression of **Strasbourg 1513**, now with a dedication to the Emperor Charles V.

References: USTC 688568.

London 1522

PROCLI DIAdochi Sphaera Thoma Linacro Anglo interprete.

Colophon: Impressum per me RICHARDVM Pynson regium impresso.

Quarto. Proclus, *On the sphere*, Latin. The translation is that of Linacre; his dedication to Arthur, Prince of Wales is included. Revised possibly by Thomas Lupset (Todd 2004b). Dated 1522 by some catalogues (and tentatively by Todd), but the evidence for this is not clear.

References: USTC 501691. ESTC S4839. SPHAERA 10037.

Strasbourg 1522

CLAVDII PTOLEMÆI ALEXANDRINI Mathematicorum principis. opus Geographiae nouiter castigatum & emaculatum additionibus. raris et inuisis. necnon cum tabularum in dorso iucunda explanatione. Registro quoque totius operis. tam Geographico. quam etiam historiali. facillimum introitum prebenti. ORDO CONTENTORVM IN HOC LIBRO TOTALI. OCTO libri Geographiae ipsius Autoris ad antiquitatem suam integri & sine vlla corruptione. cum collatione dictionum grecarum e regione ad latinas. certissima graduum calculatione examinati. REGISTRVM Item alphabeticum omnium regionum. prefecturarum ciuitatum. Fluuio. marium. lacuum. portuum Siluarum. oppidorum. villarum. gentium & historiarum. singula certissimo indice monstrans. POST hoc Sequuntur tabule. quarum numero. xxvij. erunt. Prima scz Generalem orbis descriptionem tradens iuxta mentem

Ptolemaei. Europae post hinc tabule. & Aphricae. iiij. asiae. xii. et vna corporis sperici in plano HAS succedunt neotericorum perlustrationes. ea que ab antiquis. emissa xx. tabulis adimplentes. Et in harum omnium. tam vetustiorum quam recentiorum tergis expositiones vni lateri. alteri vero lucubrationes iucundissime rituum. easdam plagas inhabitantium (cum varijs mirabilibus mundi) incumbunt TANDEM brevis sub oritur doctrina. ignorantibus viam praebens fructum auscultandi Geographicum, Quae hucusque multis incognita, & sepulta de lituit Gaudeat igitur Lector optimus. HEC bona mente Laurentius Phrisius artis Appollineae doctor & mathematicarum artium clientulus. in lucem iussit prodire. Agammemnonis puteoli plurimum delicati:

Colophon: IOANNES Grieninger ciuis Argentoratensis opera et expensis proprijs id opus insigne, aereis notulis exceptit, Laudabilique fine perfecit xii. die Marcij Anno. M. D. XXII.

Folio. Ptolemy, *Geography*, Latin, ed. Laurentius Phrisius (Lorenz Fries). Commendatory letter by Thomas Vogler dated at Strasbourg on 10 January 1522.

USTC 180850 reports a Paris 1522 impression of ‘Opera’ of Ptolemy based on a unique copy in the Bibliothèque de l’Arsenal (Paris); I cannot confirm this and suspect a mistake for the present impression.

References: USTC 622808.

Basel 1523

ΔΙΟΝΥΣΙΟΥ ΟΙΚΟΥΜΕΝΗΣ ΠΕΡΙΗΓΗΣΙΣ. ΑΡΑΤΟΥ ΦΑΙΝΟΜΕΝΑ. ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. Dionysij orbis descriptio. Arati Astronomicon. Procli sphæra. Cum scholijs Ceporini.

Imprint: BASILEAE AN. M. D. XXIII.

Colophon: BASILEAE APVD IOANNEM BEBELIVM.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Jacobus Ceporinus (Jakob Ceporin). Text and translation are both revised, the Latin based on Linacre’s version; the scholia promised on the title page appear only in the texts of Dionysius and Aratus.

References: USTC 637661. SPHAERA 10003.

Speyer 1524

Nobilissimus procli Libellus de Sphaera.

Quarto. ps.-Proclus, *On the sphere*, Latin, ed. ?Jakob Schmidt. Some catalogues, including the USTC, state that this was printed at Speyer by Jakob Schmidt in 1524, but there is no imprint or colophon evidence. Todd (2004b) places it tentatively before 1520.

References: USTC 678185. SPHAERA 10004.

Bologna 1525

PROCLI Diadochi Sphaera, Astronomiam. Discere incipientibus utilissima, nouiter ex græco recognita.

Imprint: M. D. XXV. Apud Cynthium Achillinum.

Colophon: Characteribus Cynthii Achillini excussa. Bonon. Die. xxiii. Iulii. M. D. XXVI.

Quarto. Proclus, *On the sphere*, Latin, ed. Ludovico Vitalis (Lodovico Vitale). Revised (independently from **Basel 1523**) from the translation of Linacre. Epistle to the reader signed by Vitale.

Variously catalogued as 1525 or 1526.

References: USTC 1752964, 851412. SPHAERA 10005.

Strasbourg 1525

CLAVDII PTOLEMAEI GEOGRAPHICAE ENARRATIONIS
LIBRI OCTO BILIBALDO PIRCKEYMHRO INTERPRETE
Annotationes IOANNIS DE REGIO MONTE in errores commissos
a IACOBO ANGELO in translatione sua.

Colophon: Argentoragi, Iohannes Grieningerus, communibus Iohannis Koberger impensis excudebat. Anno a Christi Natiuitate M. D. XXV. Tertio Kal'. Apriles.

Folio. Ptolemy, *Geography*, Latin, ed. Willibald Pirckheimer. Dedication by Pirckheimer to bishop Sebastian of Brescia, dated at Nuremberg on 1 September 1524.

References: USTC 622807.

Venice 1528

CLAVDII PTOLEMAEI PHELVDIENSIS ALEXANDRINI ALMAGESTVM SEV MAGNAE CONSTRVCTIONIS MATHEMATICAE OPVS PLANE DIVINVM LATINA DONATVM LINGVA AB GEORGIO TRAPEZVNTIO VSQVEQVAQ. DOCTISSIMO. PER LVCAM GAVRICVM NEAPOLIT. DIVINAE MATHESIOS PROFESSOREM EGREGIVM IN ALMA VRBE VENETA ORBIS REGINA RECOGNITVM ANNO SALVTIS M D XXVIII LABENTE.

Colophon: Claudii Ptolemæi Alexandrini Magna synthesis, Per L. Gauricum Neapolit. exacte recognita In Vrbe Veneta Urbium & Orbis Regina & calcographica Luceantonii Iunta officina Aere proprio, ac Typis excussa, horoscopante Iouia stella In calce febru. Ad calcem redacta est, Anno christi 1528. labente qui fluxit ab Adamo annus secundum Hebreos & Io. Picum Mirandula. 5035 Paulum orosium, Bedam, Eusebium 6726 Apostolos, & primos ecclesiæ patres 7027 Alphonsum Hispaniæ Regem 8512

Folio. Ptolemy, *Almagest*, Latin, ed. Luca Gaurico. Uses the translation of George of Trebizond and includes the preface of Andreas of Trebizond to Sixtus IV. Dedication to Domenico Palavicino by Gaurico.

References: USTC 851477. PAL 32.

Vienna 1529

THEODOSII DE SPHAERICIS LIBRI TRES, A IOANNE

VÖGELIN Hailpronnensi, *Astronomiae*, in Viennensi Gymnasio, ordinario professore, Ciuilisque collegij collega, restituti, & Scholijs non improbandis illustrati.

Colophon: Finitum est hoc insigne Sphaericorum Theodosii opus, Viennæ in officina Ioannis Singrenii, Anno M. D. XXIX. 18 Martii.

Quarto. Theodosius, *Spherics*, Latin, ed. Johannes Vögelin. Dedication by Vögelin to Archduke Ferdinand of Austria. The translation is that of Plato of Tivoli; compared with **Venice 1518** it is based on new manuscripts and much improved; see Malpangotto 2010, 77.

References: USTC 696695.

s.l. c. 1530

SPAERA PROCLI.

Octavo. ps.-Proclus, *On the sphere*, Latin. A new anonymous Latin translation. Known from a single copy in the Bayerische Staatsbibliothek (a.lat.b.2137f/4). May be dated after *c. 1523* by the use of a fifteen-chapter division of the text (*cf.* **Basel 1523**) and perhaps before *c. 1531* by the Greek text used. See Todd 2003b, 37–8.

References: None identified.

Basel 1531

IO. IOVIANI PONTANI COMMENTARIORVM IN centum Claudij Ptolemæi sententias, libri duo.

Imprint: Apud And. Cratandrum, mense Septembri, An. M. D. XXXI.

Colophon: EXCVDEBAT BASILEAE ANDREAS CRATANDER, MENSE SEPTEMBRI, ANNO À CHRISTO NATO M. D. XXXI.

Quarto. ps.-Ptolemy, *Centiloquium*, Latin, ed. Giovanni Pontano. Reimpression of **Naples 1512** (*cf.* **Venice 1519/Florence 1520**), with the Ptolemaic text incorporated into Pontano's commentary.

References: USTC 604949. PAL 52.

Paris 1531

PROCLI SPHAERA, THOMA LINacro Britanno interprete.

Imprint: Excudebat Christianus Wechelus, sub scuto Basiliensi, in uico Iacobæo, anno 1531.

Octavo. Proclus, *On the sphere*, Latin, ed. Christian Wechel. The translation is that of Linacre.

References: USTC 185182, 203411. SPHAERA 10038.

Basel 1533

ΕΥΚΛΕΙΔΟΥ ΣΤΟΙΧΕΙΩΝ ΒΙΒΛ. ΙΕ'. ΕΚ ΤΩΝ ΘΕΩΝΟΣ ΣΥΝΟΤΣΙΩΝ. Εἰς τοῦ αὐτοῦ τὸ πρῶτον, ἐξηγημάτων Πρόκλου βιβλ. δ'. Adiecta præfatiuncula in qua de disciplinis Mathematicis nonnihil.

Imprint: BASILEAE APVD IOAN. HERVAGIVM ANNO M. D. XXXIII. MENSE SEPTEMBRI.

Colophon: BASILEAE APVD IOAN. HERVAGIVM ANNO M. D. XXXIII. MENSE SEPTEMBRI.

Folio. Proclus, *Commentary on Book I of the Elements of Euclid*, Greek, ed. Simon Grynæus. The first printing of this text. Dedication by Grynæus to Cuthbert Tunstall dated 31 August. The main part of the volume is an edition in Greek of *Elements* I–XIII.

The manuscript for the Proclus text was provided by John Claymond of Oxford; Barozzi (**Padua 1560**) would describe it as ‘more dilacerated than printed’: see Campillo Bo 2023, 197.

References: USTC 654430. EiP Basel 1533.

Basel 1533a

DE MVNDO ARISTOTELIS LIB. I. PHILONIS LIB. I. Gulielmo Budæo interprete. CLEOMEDIS LIB. II. Georgio Valla interprete.

ΑΡΙΣΤΟΤΕΛΟΥΣ περὶ κόσμου, πρὸς Ἀλέξανδρον Βιβλ. ἔν. ΦΙΛΩΝΟΣ ἸΟΥΔΑΙΟΥ περὶ κόσμου Βιβλ. ἔν. AD HAEC Scholion doctiss. in Aristotelis libellum de Mundo, SIMONE GRYNÆO authore.

Imprint: BASILEAE, APVD IOAN. VALDERVM, MENSE MARTIO, AN. M. D. XXXIII.

Colophon: BASILEAE, APVD IOAN. VVALDERVM, MENSE MARTIO, AN. M. D. XXXIII.

Octavo. Cleomedes, *On the circular motions of the celestial bodies*, Latin. The Latin text is that of Valla, from **Venice 1498**, and retains the dedication to Joannes Valla. Other parts of the volume contain translations by Guillaume Budé and text by Simon Grynaeus.

References: USTC 630575.

Basel 1533b

ΚΛΑΥΔΙΟΥ ΠΤΟΛΕΜΑΙΟΥ ΑΛΕΞΑΝΔΡΕΩΣ φιλοσόφου ἐν τοῖς μάλιστα πεπαιδευμένου, περὶ τῆς γεωγραφίας βιβλία ὀκτώ, μετὰ πάσης ἀκριβείας ἐντυπωθέντα. CLAVDII PTOLEMAEI ALEXANDRINI philosophi cum primis eruditi, De Geographia libri octo, summa cum uigilantia excusi.

Imprint: FROBEN. BASILEAE ANNO M D XXXIII

Colophon: Ἐντυπῶθαι ἐν Βασιλείᾳ παρ Ἱερωνύμῳ τῷ Φρωβενίῳ καὶ Νικολαίῳ τῷ Ἐπισκοπίῳ, ἔτει θεογονίας α ρ λ γ

Quarto. Ptolemy, *Geography*, Greek and Latin, ed. Desiderius Erasmus. The first printing of the *Geography* in Greek. Dedication by Erasmus to Theobald Fetting, dated at Freiburg im Breisgau on 1 February 1533. The colophon date is 1533.

References: USTC 604939.

Basel 1533c

IVLII FIRMICI MATERNI IVNIORIS SICVLII V. C. AD MAVORTIVM Lollianum Astronomicōn Lib. VIII. per NICOLAVM

PRVCKNERVM Astrologum nuper ab innumeris mendis uindictati. HIS ACCESSERVNT. CLAVDII PTOLEMAEI Pheludiensis Alexandrini ἀποτελεσμαίων, quod Quadripartitum uocant, Lib. III De inerrantium stellarum significationibus Lib. I Centiloquium eiusdem. EX ARABIBVS ET CHALDEIS. HERMETIS uetustissimi Astrologi centum Aphoris. Lib. I BETHEM Centiloquium. EIVSDEM de Horis Planetarum Liber alius. ALMANSORIS Astrologi propositiones ad Saracenorum regem. ZAHELIS Arabis de Electionibus Lib. I MESSAHALAH de ratione Circuli & Stellarum, & qualiter in hoc seculo operentur, Lib. I OMAR de Natiuitatibus Lib. III MARCI MANILII Poëtæ disertissimi Astronomicōn Lib. V Postremo, OTHONIS BRUNFELSII de diffinitionibus & terminis Astrologiæ libellus isagogicus.

Imprint: BASILEAE EX OFFICINA IOANNIS HERVAGII, MENSE MARTIO, ANNO M. D. XXXIII

Colophon: BASILEAE PER IOANNEM HERVAGIVM, MENSE MARTIO, ANNO M. D. XXXIII.

Folio. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.), Latin, ed. Nicolaus Pruckner (Prugener). Dedication by Prugener to Otho Brunfels, dated at Benfeld on March 1533. The *Tetrabiblos* uses the translation of Plato of Tivoli, the *Centiloquium* that of Pontano, extracted from his commentary (**Naples 1512/Venice 1519/Florence 1520**). Also contains the ‘Inerrantium stellarum significationes’.

References: USTC 602364. PAL 6.

Basel 1534

ΔΙΟΝΥΣΙΟΥ ΟΙΚΟΥΜΕΝΗΣ ΠΕΡΙΗΓΗΣΙΣ. ΑΡΑΤΟΥ ΦΑΙΝΟΜΕΝΑ. ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. Dionysij orbis descriptio. Arati Astronomicon. Procli sphæra. Cum scholijs Ceporini.

Imprint: BASILEAE AN. M. D. XXXIII.

Colophon: Basileæ. In ædibus Thomæ Volffij. M. D XXXIII.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin. Reimpression of

Basel 1523, using Ceporin's Latin version of the Proclus text and including his epistle to the reader.

References: USTC 637662. SPHAERA 10057.

Paris 1534

PROCLI SPHAERA, THOMA LINACRO Britanno interprete.

Imprint: PARISIIS, Excudebat Christianus Wechelus, sub scuto Basiliensi, in uico Iacobæo. Anno 1[5]34.

Octavo. ps.-Proclus, *On the sphere*, Latin. Text emended from **Basel 1523** using **Paris 1531**. The imprint date appears to be misprinted as 1734 in at least some copies.

References: USTC 203237. SPHAERA 10006.

Basel 1535

C. IVLII HYGINI AVGVSTI LIBERTI FABVLARVM LIBER, AD OMNIVM poëtarum lectionem mire necessarius & ante hac nunquam excusus. EIVSDEM POETICON ASTRONOMICON, libri quatuor. Quibus accesserunt similis argumenti. PALAEPHATI de fabulosis narrationibus, liber I. F. FVLGENTII PLACIADIS Episcopi Carthaginensis Mythologiarum, libri III. EIVSDEM de uocum antiquarum interpretatione, liber. I. ARATI ΦΑΙΝΟΜΕΝΩΝ fragmentum, Germanico Cæsare interprete. EIVSDEM Phænomena Græce, cum interpretatione latina. PROCLI de sphæra libellus, Græce & Latine. INDEX rerum & fabularum in his omnibus scitu dignarum copiosissimus.

Imprint: BASILEAE APVD IOAN. HERVAGIVM ANNO, M. D. XXXV MENSE MARTIO.

Colophon: BASILEAE APVD IOAN. HERVAGIVM ANNO M. D. XXXV.

Folio. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Jacob Micyllus

(Jakob Molsheym). The Latin text of Proclus is that of Linacre as revised by Ceporinus (**Basel 1523**). Dedication by Molsheym to Otho Truchses, undated.

References: USTC 617528. SPHAERA 10045.

Cologne 1535

PROCLI SPHAERA, THOMA LINAcro Britanno interprete.

Imprint: Coloniae, excudebat Iohannes Soter, Anno M. D. XXXV.

Octavo. ps.-Proclus, *On the sphere*, Latin. The text is that of Linacre.

References: USTC 686896. SPHAERA 10044.

Lyon 1535

CLAVDII PTOLEMAEI ALEXANDRINI GEOGRAPHICAE ENARRATIONIS LIBRI OCTO. EX BILIBALDI PIRCKEYMHERRI translatione, sed ad Græca & prisca exemplaria à Michaële Villanouano iam primum recogniti. Adiecta insuper ab eodem Scholia, quibus exoleta urbium nomina ad nostri seculi morem exponuntur. QVINQVAGINTA ILLAE QVOQVE CVM ueterum tum recentium tabulæ adnectuntur, uarijque incolentium ritus & mores explicantur.

Imprint: LVGDVNI EX OFFICINA MELCHIORIS ET GASPARIS TRECHSEL FRATRVM. M. D. XXXV.

Colophon: EXCVDEBANT LVGDVNI MELCHIOR ET GASPAR TRECHSEL FRATRES. M. D. XXXV.

Folio. Ptolemy, *Geography*, Latin, ed. Michael Villanovano (Servetus). Revision of **Strasbourg 1525**, that is the text of Pirckheimer, and including Pirckheimer's dedication to Bishop Sebastian of Brescia, dated at Nuremberg on 1 September 1524. The maps (with one exception) are printed from the blocks of **Strasbourg 1522**: see Stevens 1907.

References: USTC 146902.

Nuremberg 1535

Hoc in libro nunquam ante typis æneis in lucem edita hæc insunt. ΚΛΑΥΔΙΟΥ πτολεμαίου πηλουσιέως τετραβιβλος σύνταξις, πρὸς Σύρον ἀδελφόν ΤΟΥ ΑΥΤΟΥ καρπός, πρὸς τὸν αὐτὸν Σύρον. Claudij Ptolemæi Pelusiensis libri quatuor compositi Syro fratri. Eiusdem fructus librorum suorum, siue Centum dicta, ad eundem Syrum. Traductio in linguam Latinam librorum Ptolemæi duum priorum. & ex alijs præcipuorum aliquot locorum, Ioachimi Camerarij Bambergensis. Conuersio Centum dictorum Ptolemæi in Latinum Iouiani Pontani. Annotatiunculæ eiusdem Ioachimi ad libros priores duos iudiciorum Ptol. Matthæi Guarimberti Parmensis opusculum de radijs & aspectibus planetarum. Aphorismi Astrologici Ludouici de Rigijs ad patriarcham Constantinopolitanum.

Imprint: NORIMBERGAE. M. D. XXXV.

Colophon: Norimbergæ apud Ioannem Petreium. Anno M. D. XXXV.

Quarto. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.), Greek and Latin, ed. Joachim Camerarius. The first Greek printing of either text. The Latin text of the *Tetrabiblos* is a new translation by Camerarius; books III and IV are included only in excerpts. For the *Centiloquium*, the Latin texts of Plato of Tivoli and of Pontano are both given, the latter reprinted from **Basel 1533c**. Dedication to Albert of Brandenburg by Camerarius, dated at Nuremberg on 1 June 1535.

USTC 622672 appears to report an incomplete copy of this imprint.

References: USTC 662928. PAL 70.

Basel 1536

SPHAERAE ATQVE ASTRORVM cœlestium ratio, natura, & motus: ad totius mundi fabricationis cognitionem fundamenta.

Imprint: M. D. XXXVI. VALDERVS.

Quarto. ps.-Proclus, *On the sphere*, Greek and Latin; Ptolemy, *Planisphere*, Latin. Both ed. Jacob Ziegler. The Latin text of Proclus is that of Linacre/Ceporin, revised by Ziegler. That of the *Planisphere* is the translation

by Hermann of Carinthia, with an address by Rudolf of Bruges to Theodoric Platonius dated at Tolouse on 1 June 1144. Also contains works by Jacob Ziegler, Berossus, Aratus (*Phenomena* and *De siderum natura et motu*, with Theon's commentary) and Jordanus.

USTC gives a different title: *Sphaerae constructione de sphaera sive globo caelesti hemicyclium phaenomena planisphaerium sphaerae atque astrorum coelestium ratio, natura, & motus: ad totius mundi fabricationis cognitio fundamenta*.

Placed in Basel by comparison with other Walderus imprints. Occasionally reported with date 1636.

References: USTC 694356. SPHAERA 10046.PAL 13.

Paris 1536

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ ΤΩΝ ΤΗΣ Αστρολογίας ἐπιμεμένων χάριν ἐπιμελῶς ἐντυπωθεῖσα.

Imprint: PARISIIS. Ex officina Christiani Wecheli sub scuto Basiliensi. M. D. XXXVI.

Octavo. Proclus, *On the sphere*, Greek. Text reprinted from **Paris 1534**.

References: USTC 147150. SPHAERA 10053.

Cologne 1537

CL. PTOLOMAEI PHELVDIENSIS ALEXANDRINI PHILOSOPHI ET MATHEMATICI excellentissimi Phænomena, stellarum MXXII. fixarum ad hanc ætatem reducta, atque seorsum in studiosorum gratiam. Nunc primum edita, Interprete Georgio Trapezuntio. Adiecta est isagoge IOANNIS Nouiomagi ad stellarum inerrantium longitudes ac latitudes, cui etiam accessere Imagines sphæræ barbaricæ duodequingaginta. ALBERTI DVRERI.

Imprint: Excusum Colonia Agrippinæ, Anno M. D. XXXVII. octauo Calendas Septembres.

Quarto. Ptolemy, *Almagest* (VII–VIII), Latin. The Ptolemaic text is that

of George of Trebizond and may therefore be reprinted from **Venice 1528** (edited by Gaurico).

References: USTC 622673. PAL 110.

Lisbon 1537

TRatado da sphaera com a Theorica do Sol e da Lua. E ho primeiro liuro da Geographia de Claudio Ptolomeo Alexandrino. Tirados nouamente de Latim em lingoagem pello Doutor Pero Nunez Cosmographo del Rey don João ho terceyso deste nome nosso Senhor. E acrecentados de muitas annotações e figuras per que mays facilmente se podem entender. Item dous tratados que o mesmo Doutor fez sobre a carta de marear. Em os quaes se decrarão todas as principaes duuidas da nauegação. Con as tauoas do mouimento do sol: e sua declinação. E o Regimento da altura assi a o meyodia: como nos outros tempos.

Colophon: A cabouse de emprimir a presente obra na muyto nobre e leal cidade de Lixboa per Germão Galharde empremidor. A o primeiro dia do mes de Dezembro. De. 1537. annos.

Octavo. Ptolemy, *Geography* (I), Portuguese, ed. Pedro Nuñez. Translated from an unspecified Latin source. Permission to print dated 26 September 1537. Dedication to the Infante dom Luys, undated.

References: USTC 344682.

Venice 1537

APOLLONII PERGEI PHILOSOPHI, MATHEMATICIQVE EXCELLENTISSIMI Opera, Per Doctissimum Philosophum Ioannem Baptistam Memum Patritium Venetum, Mathematicarumque Artium in Vrbe Veneta Lectorem Publicum. De Græco in Latinum Traducta. & Nouiter Impressa.

Colophon: Impressum Venetiis Per Bernardinum Bindonum, Mediolanensis. Ad Instantiam Magnifici Domini Ioannis Mariæ Memi

Patritii Veneti, Ipsiusque Impensa. Anno a Natiuitate Domini Nostri, M. D. XXXVII.

Folio. Apollonius, *Conics* (I–IV), Latin, ed. Giovanni Baptista Memo. The first printing of these books of the *Conics*; a new translation from the Greek. Dedication by Memo to Marinus Grimanus (probably Marino Grimani, later Doge of Venice), undated.

References: USTC 809795.

Basel 1538

ΚΛ. ΠΤΟΛΕΜΑΙΟΥ ΜΕΓΑΛΗΣ ΣΥΝΤΑΞΕΩΣ BIBΛ. ΙΓ̄
ΘΕΩΝΟΣ ΑΛΕΞΑΝΔΡΕΩΣ ΕΙΣ ΤΑ ΑΥΤΑ ΥΠΟΜΝΗΜΑΤΩΝ
BIBΛ. ΙᾹ. CLAVDII PTOLEMAEI Magnæ Constructionis, Id est
Perfectæ cœlestium motuum pertractationis, LIB. XIII. THEONIS
ALEXANDRINI in eosdem Commentariorum LIB. XI.

Imprint: BASILEAE APVD IOANNEM VVALDERVM, AN.
M. D. XXXVIII.

Colophon: ΕΤΥΠΩΘΗ ΕΝ ΒΑΣΙΛΕΙΑ, ΑΝΑΛΩΜΑΣΙ ΚΑΙ
ἐπιμελεία Ἰωάννου Βαλδέρου, ἔτει τῷ ἀπὸ τῆς ἐνσάρχου οἰκονομίας
τοῦ [χ]υρίου ἡμῶν Ἰησοῦ Χριστοῦ, χιλιοστῷ πεντακοσιοστῷ τρι-
ακοστῷ ὀγδόῳ, Μαίμακτηριῶνος πρώτῃ.

Folio. Ptolemy, *Almagest*, Greek, ed. Simon Grynaeus. The first Greek printing of the text. Preface addressed to Henry VIII of England by Grynaeus. The colophon date is 1 May 1538.

References: USTC 604936.

Basel 1538a

IOANNIS IOVIANI PONTANI, LIBRORVM omnium, quos soluta
oratione composuit, Tomus TERTIVS, IN QVO Centum PTOLE-
MAEI sententiæ, à PONTANO è Græco in Latinum tralatæ, atque
expositæ. Eiusdem PONTANI de rebus cœlestibus Libri XIII. De

Luna, Liber imperfectus.

Imprint: BASILEAE, M. D. XXXVIII.

Colophon: [at end of Ptolemy commentary] EXCVDEBAT BASILEAE ANDREAS CRATANDER, MENSE SEPTEMBRI, ANNO À CHRISTO NATO M. D. XXXI.

Quarto. ps.-Ptolemy, *Centiloquium*, Latin, ed. Giovanni Pontano. Third volume of a new edition of the *Opera* of Pontano, thus a reimpression of **Naples 1512/Venice 1519/Florence 1520**, with the Ptolemaic text incorporated into his commentary, and including the undated address to Duke Federico of Urbino from **Naples 1512**. The *De rebus cœlestibus* has a separate title page with imprint date 1530, but I have not seen evidence for it being issued separately.

References: None identified.

Paris 1538

ΝΙΚΟΜΑΧΟΥ ΓΕΡΑΣΙΝΟΥ ΑΡΙΘΜΗΤΙΚῆΣ ΒΙΒΛΙΑ ΔΥΟ.
NICOMACHI GERASINI ARITHMETIcæ libri duo. Nunc primum typis excusi, in lucem eduntur.

Imprint: PARISIIS. In officina Christiani Wecheli. M. D. XXXVIII.

Quarto. Nicomachus, *Introduction to arithmetic*, Greek. The first printing of this text. Occasionally catalogued in error with date 1638.

References: USTC 147473.

Wittenberg 1538

LIBELLVS DE SPHAERA PROCLI Diadochi, translatus ê græco in latinum per Thomam Linacrum. ADDITA SVNT PROLEGomena Ioannis Schoneri in Sphæricum instrumentum. ITEM QVARTVM CAput print libri Marci Manilij.

Imprint: VVITENBERGAE.

Colophon: VITEBERGAE EX OFFICINA Iosephi Clug. Anno

M. D. XXXVIII.

Octavo. ps.-Proclus, *On the sphere*, Latin. The text is that of Linacre/Ceporin. Also contains an excerpt from Manilius.

References: USTC 672611. SPHAERA 10008.

Paris 1539

ΚΛΕΟΜΗΔΟΥΣ ΚΥΚΛΙΚΗ ΘΕΩΡΙΑ ΕΙΣ ΒΙΒΛΙΑ Β' Nunc primū typis excusa prodit, cum Regio Priuilegio in quinquennium.

Imprint: PARISIIS PER CONRADVM NEOBARIVM, REGIVM IN GRAECIS TYPOGRAPHVM. M. D. XXXIX.

Colophon: PARISIIS Væneunt partim Ioanni Lodoico, partim in cruce alba vici Diui Iacobi 1539. Maij 30.

Quarto. Cleomedes, *On the circular motions of the celestial bodies*, Greek. The first Greek printing of this text.

References: USTC 147651, 160537.

Strasbourg 1539

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. PROCLI DIADOCHI LIBELLus de circulis spheræ, astronomiam discere incipientibus, utilisimus.

Imprint: EX LIBERA ARGENTINA in ædibus Vuendelini Rihelij. Mense Martio. ANNO. M. D. XXXIX.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin. The Latin text is that of Linacre/Ceporin.

References: USTC 687347. SPHAERA 10067.

s. l. c. 1540

SPAERA PROCLI.

Octavo. ps.-Proclus, *On the sphere*, Latin. No imprint or colophon is

present, but some catalogues, including the USTC, place this imprint in *c.* 1540.

References: USTC 694220. SPHAERA 10009.

Basel 1540

GEOGRAPHIA VNIVERSALIS, VETVS ET NOVA, COM-
PLECTENS CLAVDII PTOLEMAEI ALEXANDRINI ENAR-
RATIONIS LIBROS VIII. Quorum primus noua translatione
Pirckheimheri et accessione commentarioli illustrior quàm hactenus
fuerit, redditus est. Reliqui cum græco & alijs uetustis exemplaribus
collati, in infinitis ferè locis castigatiores facti sunt. Addita sunt insuper
Scholia, quibus exoleta urbium montium, fluuiorumque nomina ad
nostri seculi morem exponuntur. Succedunt tabulae Ptolemaicae,
opera Sebastiani Munsteri nouo paratæ modo. His adiectæ sunt
plurimæ nouæ tabulae, modernam orbis faciem literis & pictura
explicantes, inter quas quædam antehàc Ptolemæo non fuerunt additæ.
Vltimo annexum est compendium geographicae descriptionis, in quo
uarij gentium & regionum ritus & mores explicantur. Praefixus est
quoque uniuerso operi index memorabilium populorum, ciuitatum,
fluuiorum, montium, terrarum, lacuum &c.

Imprint: BASILEAE APVD HENRICVM PETRV MENSE
MARTIO ANNO M. D. XL.

Colophon: BASILEAE APVD HENRICVM PETRV Mense Martio
AN. M. D. XL.

Folio. Ptolemy, *Geography*, Latin, ed. Sebastian Münster. A new revision
of the translation by Willibald Pirckheimer (**Strasbourg 1525**). Dedication by
Münster to Philipp von Gundelsheim, undated.

References: USTC 604940.

Basel 1540a

ΠΡΟΚΛΟΥ ΔΙΑΔΟΧΟΥ ΥΠΟΤΥΠΩΣΙΣ ΤΩΝ ΑΣΤΡΟΝΟΜΙΚΩΝ

ὑποθέσεων. PROCLI DIADOCHI HYPOTYPOSIS ASTRONOMI-
carum positionum.

Imprint: Apud Ioannem Vualder Basileæ. An. 1540.

Quarto. Proclus, *Exposition of Astronomical Hypotheses*, Greek, ed. Simon Grynaeus. Dedication by Grynaeus to Joannes Reifstein, undated. The first printing of this text. The catalogue of the Museum Plantin-Moretus (Antwerp) reports a copy with imprint date 1549, but I suspect a mistake for the present imprint.

References: USTC 687345.

Basel 1540b

IOANNIS IOVIANI PONTANI, LIBRORVM omnium, quos soluta oratione composuit, Tomus TERTIVS, IN QVO Centum PTOLEMAEI sententiæ, à PONTANO è Græco in Latinum tralatæ, atque expositæ. Eiusdem PONTANI de rebus cœlestibus Libri XIII. De Luna, Liber imperfectus.

Imprint: BASILEAE, M. D. XL.

Quarto. ps.-Ptolemy, *Centiloquium*, Latin, ed. Giovanni Pontano. Third volume of a new edition of the *Opera* of Pontano, thus a reimpression of **Naples 1512/Venice 1519/Florence 1520/Basel 1538a**, with the Ptolemaic text incorporated into his commentary, and including the undated address to Duke Federico of Urbino.

References: USTC 604854. PAL 20.

Cologne 1540

CL. PTOLEMAEI ALEXANDRINI PHILOSOPHI ET MATH-
EMATici præstantissimi libri VIII. de Geographia è Græco denuo traducti. Nominibus Græcis è regione appositis, atque in indicem quam locupletissimum redactis nunquam antea uisa commoditate simili: IOANNIS NOVIOMAGI opera. Nunc primum in lucem editi.

Imprint: COLONIAE Excudebat IOANNES Ruremundanus Anno M. D. XL. Mense Martio.

Octavo. Ptolemy, *Geography*, Latin, ed. Johannes Noviomagus (Jan van Bronckhorst). A new translation from the Greek (of **Basel 1533b**), according to Stevens 1973. Dedication by Noviomagus to Adolphus Rinck, Arnoldus Bruviler, Arnoldus à Segen and Geerhardus Wasseruass, dated at Cologne on 7 March, 1540.

References: USTC 622671.

Rome 1540

Claudij Ptolemaei Alexandrini ASTRONOMORVM PRINCIPIS CENTVM SENTENTIAE INTERPRETE GEORGIO TRAPEZVNTIO LVCAE GAVRICI ORATIO DE INVENTORIBVS, VTILITATE ET LAVDIBVS ASTRONOMIAE.

Colophon: Impressum Romae per Valerium Doricum, & Ludouicum Fratres Brixianos Anno Christianae salutis, M. D. XL.

Quarto. ps.-Ptolemy, *Centiloquium*, Latin, ed. Luca Gaurico. The translation is that of George of Trebizond. Dedication by Luca Gaurico to Hieronymus Aleander (Girolamo Aleandro), undated.

References: USTC 851479. PAL 74.

Basel 1541

CLAVDII PTOLEMAEI PELVSIENSIS ALEXANDRINI OMNIA, QVAE EXTANT, OPERA, GEOgraphia excepta, quam seorsim quoque hac forma impressimus. Almagesti seu Magnae compositionis Mathematicae opus, à Georgio Trapezuntio tralatum, Lib. XIII. De iudicijs astrologicis, aut, ut uulgò uocant, Quadrtpartitae constructionis, Lib. IIII. Quorum priores duo à Ioachimo Camerario latinitate donati sunt: in reliquis emendauimus multa ad ueterum exemplarium ueritatem, adiectis etiam Græcis, nihil omittentes quo lectio fieret correctior

& expeditior. Centum sententiæ, quod Centiloquium dicunt, à Iouiano Pontano uersæ. Inerrantium stellarum significationes, per Nicolaum Leonicum traductæ. Procli Diadochi hypotyposes astronomicarum positionum, quæ est omnium, quæ in Almagesto demonstrantur, epitome & compendium, quod ad reminiscentiam conducet plurimum, Georgio Valla Placentino interprete. Ex, in omnibus disciplinis principum uirorum, exemplaribus emendauimus Almagesti plurima loca & figuras nonnullas, quas sculptas in primo huius operis limine posuimus, quoniam magnam lucem uidebantur allaturæ rebus sua natura obscurioribus. Ob quam causam etiam censuimus addendas Lucae Gaurici annotationes. Item omnium constellationum figuras graphicè, propter singulare studiosorum commodum, depinximus.

Imprint: BASILEAE APVD HENRICVM PETRVM, MENSE MARTIO, ANNO M. D. XLI.

Colophon: BASILEAE APVD HENRICVM PETRVM, MENSE MARTIO, ANNO M. D. XLI.

Folio. Ptolemy, *Almagest*; *Tetrabiblos*; *Centiloquium* (sp.); Proclus, *Exposition of Astronomical Hypotheses*. All Latin, ed. Hieronymus Gemusæus. The first Latin printing of the Proclus text. *Almagest*: text of George of Trebizond, reprinted from **Venice 1528** and/or **Cologne 1537** and including the preface to Sixtus IV. Epistle and commentary of Gaurico are also included. *Tetrabiblos* I–II: text of Camerarius (**Nuremberg 1535**). *Tetrabiblos* III–IV: text of Plato of Tivoli (see **Venice 1484**, **Paris 1519**, **Basel 1533c**). *Centiloquium*: text of Pontano (**Basel 1533c/Nuremberg 1535**). *Exposition*: text attributed to Georgio Valla. Dedication by Gemusæus to Petrus à Mornyeu, dated at Basel on 1 March 1541. Also includes the ‘Inerrantium stellarum significationes’.

References: USTC 604937. PAL 25.

Lyon 1541

CLAVDII PTOLEMAEI ALEXANDRINI Geographicæ Enarrationis, Libri Octo. EX BILIBALDI PIRCKEymheri tralatione, sed ad Græca & prisca exemplaria à Michaële Villanouano secundò recogniti, & locis

innumeris denuò castigati. Adiecta insuper ab eodem Scholia, quibus & difficilis ille Primus Liber nunc primum explicatur, & exoleta Urbium nomina ad nostri seculi morem exponuntur. Quinquaginta illæ quoque cum ueterum tum recentium Tabulæ adnectuntur, uarijque incolentium ritus & mores explicantur. Accedit Index locupletissimus hactenus non uisus.

Imprint: Prostant Lugduni apud Hugonem à Porta. M. D. XLI.

Colophon: [After main text] GASPAR TRECHSEL EXCVDEBAT VIENNAE. M. D. XLI.

[After maps and tables] Excudebat Gaspar Trechsel Viennæ M. D. XLI.

Folio. Ptolemy, *Geography*, Latin, ed. Michael Villanovano. A new edition of **Lyon 1535**, thus based on the text of Pirckheimer (**Strasbourg 1525**), and using once again the map blocks from **Strasbourg 1522**. Dedication by Villanovano to Archbishop Pierre Palmier, dated on the 1 March 1541.

The end of the title text has ‘uon uisus’ for ‘non uisus’ in at least some copies.

References: USTC 112020.

Basel 1542

GEOGRAPHIA VNIVERSALIS, VETVS ET NOVA, COMPLECTENS CLAVDII PTOLEMAEI ALEXANDRINI ENARRATIONIS LIBROS VIII. Quorum primus noua translatione Pirckheimheri et accessione commentarioli illustrior quàm hactenus fuerit, redditus est. Reliqui cum græco & alijs uetustis exemplaribus collati, in infinitis ferè locis castigatiores facti sunt. Addita sunt insuper Scholia, quibus exoleta urbium, montium, fluuiorumque nomina ad nostri seculi morem exponuntur. Succedunt tabulæ Ptolemaicæ, opera Sebastiani Munsteri nouo paratæ modo. His adiectæ sunt plurimæ nouæ tabulæ, modernam orbis faciem literis & pictura explicantes, inter quas quædam antehac Ptolemæo non fuerunt additæ. Vltimo annexum est compendium geographicæ descriptionis, in quo varij gentium & regionum ritus & mores explicantur. Præfixus est quoque uniuerso operi index memorabilium populorum, ciuitatum, fluuiorum,

montium, terrarum, lacuum &c.

Imprint: BASILEAE APVD HENRICVM PETRVM.

Folio. Ptolemy, *Geography*, Latin, ed. Sebastian Münster. Reimpression of **Basel 1540**, thus based on the text of Pirckheimer (**Strasbourg 1525**). Dedication by Münster to Bishop Philipp von Gundelsheim. Placed in 1542 by the USTC and other catalogues, but there is no imprint or colophon evidence.

References: USTC 604941.

Paris 1542

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ ΤΩΝ ΤΗΣ Αστρολογίας ἐφιειμένων κάριν
ἐπιμελῶς ἐντυπωθεῖσα.

Imprint: PARISIIS. Apud Christianum Wechelum sub scuto
Basilienſi, in uico Iacobæo: & sub Pegaso in uico Bellouacensi. An.
M. D. XLII.

Octavo. ps.-Proclus, *On the sphere*, Greek. Reimpression of **Paris 1536**,
using the text of **Paris 1534**.

References: USTC 160385. SPHAERA 10062.

Cologne 1543

ΔΙΟΝΥΣΙΟΥ ΟΙΚΟΥΜΕΝΗΣ ΠΕΡΙΗΓΗΣΙΣ. ΑΡΑΤΟΥ ΦΑΙΝ-
ΟΜΕΝΑ. ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. Dionysij orbis descriptio. Arati
Astronomicon. Procli sphæra. Cum scholijs Ceporini.

Imprint: Coloniae Ioannes Gymnicus excudebat Anno M. D XLIII.

Octavo. ps.-Proclus, *On the sphere*, Greek. Text reprinted from **Basel 1523/Basel 1534** and including Ceporin's epistle to the reader.

References: USTC 637642. SPHAERA 10047.

Leipzig 1543

LIBELLVS DE SPHAERA PROCLI DIADOCHI, HOC EST, SVCCESsoris Syriani, translatus ê græco in latinum per Thomam Linacrum. ADDITA SVNT PROLEGomena Ioannis Schoneri in Sphæricum instrumentum. ITEM QVARTVM CAPVT primi libri Marci Manilij.

Imprint: LIPSIAE ANNO M. D. XLIII.

Colophon: EX OFFICINA, IACOBI Beruualdi. 1543.

Octavo. ps.-Proclus, *On the sphere*, Latin. Reimpression of **Wittenberg 1538**, using the Latin text of Linacre/Ceporin. Also contains an excerpt from Manilius.

References: SPHAERA 10010.

Paris 1543

Procli Sphæra e Græco sermone in Latinum multò fidiùs clariùsque conuersa: cui adiectis annotationibus pauculis locos aliquot ante hac nunquam intellectos, diligenter castigatos atque explicatos nidebis.

Imprint: PARISIIS Apud Ioannem Lodoicum Tiletanum, ex aduerso Collegij Remensis. 1543.

Colophon: PARISIIS, EXCVDEBAT IO. LODOICVS TILETANVS. 1543

Quarto. ps.-Proclus, *On the sphere*, Latin, ed. Élie Vinet. Vinet is identified as the translator and commentator by Todd (2003b). The printer (Jean Louis Tiletane/Joannes Lodovicus Tiletanus) is generally known as Jean Loys, resulting in ambiguity in some catalogues.

References: USTC 195508, 160386. SPHAERA 10011.

Paris 1543a

ΠΡΟΚΛΟΥ ΣΦΑΪΡΑ ΤΩΝ ΤΗΣ ΑΣΤΡΟΛΟΓΙΑΣ ΕΦΙΕΜΕΝΩΝ ΧΑΡΙΝ ΕΠΙΜΕΛΩΣ ΕΝΤΥΠΩΘΕΪΣΑ.

Imprint: PARISIIS, Excudebat Iacobus Bogardus, sub insigni D. Christophori, è regione gymnasij Cameracensis. 1543

Quarto. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Jacques Toussain. The texts are from **Paris 1534**; the notes are attributed to Toussain in the subsequent edition **Paris 1547**. The second part, containing the Latin text and notes, has a separate title page with title *Procli Sphæra, ThoMA LINACRO BRITANNO interprete*. and imprint *PARISIIS, Excudebat Iacobus Bogardus, sub insigni D. Christophori, è regione gymnasij Cameracensis. 1543*

References: USTC 116823, 116822. SPHAERA 10039.

Venice 1543

OPERA ARCHIMEDIS SYRACVSANI PHILOSOPHI ET MATH-
EMATICI INGENIOSISSIMI per Nicolaum Tartaleam Brixianum
(Mathematicarum scientiarum cultorem) multis erroribus emendata,
expurgata, ac in luce posita, multisque necessariis additis, quæ plurimis
locis intellectu difficillima erant, commentariolis sane luculentis &
eruditissimis aperta, explicata atque illustrata existunt, Appositisque
manu propria figuris quæ graeco exemplari deformatae, ac deprauatae
erant, ad rectissimam Symetriad omnia instaurata reducta & refor-
mata elucet.

Colophon: Venetijs per Venturinum Ruffinellum sumptu & requisitione Nicolai de Tartaleis Brixiani Anno Domini 1543. Mense Aprili.

Quarto. Archimedes, *On the equilibrium of planes*, *Quadrature of the parabola*, *Measurement of a circle*, *On floating bodies* (I). All Latin, ed. Niccolò Tartaglia. The first printing of *On the equilibrium of planes* or *On floating bodies*. Dedication by Tartaglia to Richard Venfort signed at Venice on 13 April 1543.

References: USTC 810250.

Basel 1544

ΑΡΧΙΜΗΔΟΥΣ ΤΟΥ ΣΤΡΑΚΟΥΣΙΟΥ, ΤΑ ΜΕΧΡΙ νῦν σωζόμενα, ἅπαντα. ARCHIMEDIS SYRACVSANI PHILOSOPHI AC

GEOMETRAE EXcellentissimi Opera, quæ quidem extant, omnia, multis iam seculis desiderata, atque à quàm paucissimis hactenus uisa, nuncque primùm & Græcè & Latinè in lucem edita. Quorum Catalogum uersa pagina reperies. Adiecta quoque sunt EVTOCII ASCALONITAE IN EOSDEM ARCHIMEDIS LIBROS Commentaria, item Græcè & Latinè, nunquam antea excusa.

Imprint: BASILEAE, Ioannes Heruagius excudi fecit. An. M D XLIIII.

Colophon: BASILEAE, PER IOANNEM HERVAGIVM, ANNO AB ORBE REDempto, M. D. XLIIII. mense Martio.

Folio. Archimedes, *On the sphere and cylinder; Measurement of a circle; On conoids and spheroids; On spirals; On the equilibrium of planes; The sand reckoner; Quadrature of the parabola.* Eutocius, *Commentary on the Sphere and cylinder of Archimedes; Commentary on the Measurement of a circle of Archimedes; Commentary on the Equilibrium of planes of Archimedes.* All Greek and Latin, ed. Thomas Gechauff (Thomas Venatorius).

The first printing of *On conoids and spheroids*, *The sand reckoner*, *On the sphere and cylinder*, *On spirals* and of the three commentaries of Eutocius; first printing of *On the equilibrium of planes*, *Measurement of a circle* or *Quadrature of the parabola* in Greek.

Dedication to the senators of Nuremberg by Gechauff, dated at Nuremberg on 1 December 1543. The Eutocius section of the volume is occasionally catalogued separately.

References: USTC 612734.

Cologne 1544

GEORGII TRAPEZVNTII IN Claudij Ptolemæi centum Aphorismos Commentarius. Eiusdem, de Antiscijs. in quorum rationem fata sua rejicit. Item ab eodem, Cur Astrologorum iudicia plerumque fallant. Nunc primùm omnia in lucem edita. Additus est dialogus Ioannis Pontani, in quo doctiſimè disputatur, quatenus credendum sit Astrologiæ.

Imprint: Coloniae Ioan. Gymnicus excudebat, Anno M D XLIIII.

Octavo. ps.-Ptolemy, *Centiloquium*, Latin, ed. Jakob Curio. Dedication to Philippus Bucchamerus by Curio, undated. The Ptolemaic text is incorporated into the commentary by George of Trebizond.

References: USTC 659446. PAL 8.

Paris 1544

PROCLI SPHAERA, THOMA LINACRO Britanno interprete.

Imprint: PARISIIS. Apud Petrum Gromorsum, sub Phœnice, iuxta scholas Remenses. 1544.

Octavo. ps.-Proclus, *On the sphere*, Latin. The text is that of **Paris 1534**.

References: USTC 199634. SPHAERA 10073.

Basel 1545

GEOGRAPHIA VNIVERSALIS, VETVS ET NOVA, COM-
PLECTENS CLAVDII PTOLEMAEI ALEXANDRINI ENAR-
RATIONIS LIBROS VIII. Quorum primus noua translatione
Pirckheimheri & accessione commentarioli illustrior quàm hactenus
fuerit, redditus est. Reliqui cum græco & alijs uetustis exemplaribus
collati, in infinitis ferè locis castigatiores facti sunt. Addita sunt insuper
Scholia, quibus exoleta urbium, montium, fluuiorumque nomina ad
nostri seculi morem exponuntur. Succedunt tabulæ Ptolemaicæ, opera
Sebastiani Munsteri nouo paratæ modo. His adiectæ sunt plurimæ
nouæ tabulæ, modernam orbis faciem literis & pictura explicantes,
inter quas quaedam antehac Ptolemaeo non fuerunt additæ. Vltimo
annexum est compendium geographicæ descriptionis, in quo uarij
gentium & regionum ritus & mores explicantur. Præfixus est quoque
uniuerso operi index memorabilium populorum, ciuitatum, fluuiorum,
montium, terrarum, lacuum &c. Adiectæ sunt huic posteriori editioni
nouæ quædam tabulæ, quæ hactenus apud nullam Ptolemaicam
impressuram uisæ sunt.

Imprint: BASILEAE PER HENRICHVM PETRVM, ANNO M D. XLV.

Colophon: BASILEAE PER HENRICHVM PETRVM MENSE AVGVSTO, AN. M. D. XLV.

Folio. Ptolemy, *Geography*, Latin, ed. Sebastian Münster. Reimpression of **Basel 1540/Basel 1542**, thus based on the text of Pirckheimer (**Strasbourg 1525**). Epistle to the reader by Münster dated at Basel in May 1545.

References: USTC 604942.

Paris 1546

ΚΛΑΥΔΙΟΥ ΠΤΟΛΕΜΑΙΟΥ ἈΛΕΞΑΝΔΡΕΩΣ ΦΙΛΟΣΟΦΟΥ
ἘΝ ΤΟῖΣ μάλιστα πεπαιδευμένου, περὶ τῆς γεωγραφίας βιβλία
ὀκτώ, μετὰ πάσης ἀκριβείας ἐντυπωθέντα. CLAVDII PTOLEMAEI
ALEXANDRINI PHILOSOPHI cum primis eruditi, de Geographia
libri octo, summa cum vigilantia excusi.

Imprint: PARISIIS, Apud Christianum Wechelum, sub Pegaso, in vico Bellouacensi, Anno M. D. XLVI.

Quarto. Ptolemy, *Geography*, Greek, ed. Desiderius Erasmus. Reimpression of **Basel 1533b**, including the dedication to Theobald Fettich dated 1 February 1533.

References: USTC 149610.

Paris 1546a

DE VSV ASTROLABI Compendium, schematibus commodissimis illustratum, Autore Ioanne Martino Poblacion.

Imprint: PARISIIS Ex typographia Ioannis Barbæi. Prostat apud Iacobum Gazellum sub insigni Coloniae Agrippinensis in uia Iacobea. 1546.

Octavo. ps.-Proclus, *On the astrolabe*, Latin, ed. Johannes Martinus Poblacion. The text is that of Valla, from **Venice 1498**. Dedication by Poblacion to

Franciscus Lupeus Rinconus, undated.

References: USTC 149570.

Basel 1547

PROCLI DE SPHAERA LIBER. CLEOMEDIS DE MVNDO, siue circularis inspectionis meteororum libri duo. ARATI SOLENSIS PHAEnomena, siue Apparentia. DIONYSII AFRI DESCRIPtio orbis habitabilis. Omnia græcè & latinè ita coniuncta, ut conferri ab utriusque linguæ studiosis, in quorum gratiam eduntur, poßint: adiectis etiam Annotationibus.

Imprint: BASILEAE. 1547.

Colophon: BASILEAE, PER HENricum Petri, Anno Salutis M. D. XLVII.

Octavo. ps.-Proclus, *On the sphere*; Cleomedes, *On the circular motions of the celestial bodies*. Both Greek and Latin, ed. Marcus Hopper. The Latin text of Proclus is that of **Basel 1523/Basel 1534/Cologne 1543**, that is by Linacre/Ceporin; that of Cleomedes is the version of Valla, from **Venice 1498** and/or **Basel 1533a**. Dedication by Marcus Hopper to Ludovico Meier, dated 'Ex Musaeo nostro' on 1 January 1547. Also contains works of Aratus and Dionysius in Greek and Latin with the annotations of Ceporin from **Basel 1523/Basel 1534/Cologne 1543**. The translations are presented in parallel columns (Proclus, Cleomedes) or facing pages (Aratus, Dionysius), the first occurrence of such a layout in the imprints catalogued here.

References: USTC 686900. SPHAERA 10013.

Paris 1547

CLEOMEDIS CIRCULARIS INSPECTIONIS METEORORVM Libri duo. Georgio Valla Placentino interprete.

Imprint: PARISIIS, Apud Thomam Richardum, sub Bibliis aureis, ex aduerso Collegii Remensis. M. D. XLVII.

Quarto. Cleomedes, *On the circular motions of the celestial bodies*, Latin. The text is that of Valla, from **Venice 1498** and/or **Basel 1533a/Basel 1547**, and includes the dedication to Joannes Valla.

References: USTC 149710, 116961.

Paris 1547a

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. PROCLI SPHAERA, Cum annotatiunculis ex publicis prælectionibus Iacobi Tusani Regij Græcarum litterarum professoris, exceptis.

Imprint: PARISIIS, Apud Iacobum Bogardum, sub insigni D. Christophori, è regione gymnasij Cameracensium. 1547,

Quarto. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Jacques Toussain. Revised reimpression of **Paris 1543a**, using the same title-page illustration and attributing the annotations to Toussain. The second part, containing the Latin translation and the annotations, has a separate title page with title *PROCLI SPHAERA, THOMA LINACRO BRITANNO INTERPRETE, Cum annotatiunculis ex publicis prælectionibus Iacobi Tusani Regij Græcarum litterarum professoris, exceptis.* and imprint *PARISIIS, Apud Iacobum Bogardum, sub insigni D. Christophori, è regione gymnasij Cameracensium. 1547.* The two parts are sometimes bound or catalogued separately, but the reference on the first title page to the annotations (which appear in part 2) makes it clear that they were intended to appear together.

References: USTC 116960. SPHAERA 10054.

Paris 1547b

PROCLI SPHAERA, THOMA LINACRO BRITANNO interprete.

Imprint: PARISIIS, In officina Christiani Wecheli, sub Pegaso, in uico Bellouacensi. Anno M. D. XLVII.

Octavo. ps.-Proclus, *On the sphere*, Latin. Reimpression of **Paris 1534**, using the text of Linacre/Ceporin.

References: USTC 160526. SPHAERA 10012.

Paris 1547c

Procli Sphæra, é Græco sermone in Latinum multò fidelius clariúsque conuersa: cui adiectis annotationibus pauculis locos aliquot antehac nunquam intellectos, diligenter castigatos, atque explicatos videbis.

Imprint: PARISIIS, Apud Thomam Richardum, sub Bibliis aureis, è regione Collegij Remensis. M. D. XLVII.

Colophon: PARISIIS, EXCVDEBAT THOMAS RICHARDVS. M. D. XLVII.

Quarto. ps.-Proclus, *On the sphere*, Latin. Reimpression of **Paris 1543**, thus translated and commented by Élie Vinet.

USTC 196587 reports an edition with nearly identical title text dated 1552, based on a unique copy in the Médiathèque municipale François Mitterrand (Poitiers); it seems likely that this is a mistake.

References: SPHAERA 10048.

Louvain 1548

CL. PTOLEMÆI Pelusiensis Mathematici OPERIS QVADRIPARTITI, IN LATINVM SERMONEM TRADVCTIO: Adiectis libris posterioribus, ANTONIO GOGAVA GRAVIENS. INTERPRETE. Ad Clarissimum Principem MAXIMILIANVM Comitem BVRENS. ITEM, DE SECTIONE CONICA, Orthogona, quæ parabola dicitur: Deque Speculo Vstorio, Libelli duo, hactenus desiderati: restituti ab ANTONIO GOGAVA GRAVIENSI. Cum præfatione D. GEMMAE FRISII, Medici & Mathematici clariss.

Imprint: LOVANII Apud Petrum Phalesium, ac Martinum Rotarium, Anno M. D. XLVIII. Mense Octobri.

Colophon: Louanii excudebat Iacobus Batius typograph. iur.

Quarto. Ptolemy, *Tetrabiblos*, Latin, ed. Antonio Gogava. The permission

to print is dated 27 September 1548; Gemma Frisius' epistle to the reader is dated at Louvain on 1 October 1548. Gogava's dedication to Maximiliaan van Egmond is dated at Louvain on 13 August 1548. The Latin text is a new translation by Gogava.

References: USTC 403435. PAL 51.

Venice 1548

PTOLEMEO LA GEOGRAFIA DI CLAVDIO PTOLEMEO
ALESSANDRINO, Con alcuni comentì & aggiunte fatteui da Se-
bastiano munstero Alamanno, Con le tauole non solamente antiche
& moderne solite di stamparsí, ma altre nuoue aggiunteui di Meser
Iacopo Gastaldo Piamontese cosmographo, ridotta in uolgare Italiano
da M. Pietro Andrea Mattiolo Senese medico Eccellentissimo. CON
L'AGGIVNTA D'INFINITI nomi moderni, di Città, Prouincie,
Castella, et altri luoghi, fatta *con* grandissima diligenza da esso Meser
Iacopo Gastaldo, il che in nissun altro Ptolemeo si ritroua. Opera
ueramente non meno utile che necessaria.

Imprint: In Venetia, per Gioñ. Baptista Pedrezano. M. D. XLVIII

Colophon: In Venetia, ad Instantia di messer Giouanbattista Pedrezano
librario al segno della Torre a pie del ponte di Rialto. Stampato per
Nicolo Bascarini nel Anno del Signore. 1547. del mese di Ottobre.

Octavo. Ptolemy, *Geography*, Italian, ed. Iacopo Gastaldo Piamontese
and Pietro Andrea Mattiolo. The Latin of Münster (**Basel 1540/Basel
1542/Basel 1545**) was a source. Dedication by Gastaldo to Leone Strozzi
dated at Venice on 2 January 1548.

Variously catalogued as 1547 (USTC 851485), 1548 or 1547–8.

References: USTC 851486.

Basel 1549

C. IVLII HYGINI AVGVSTI LIBERTI FABVLARVM LIBER, AD
OMNIVM POETARVM LECTIONEM MIRÈ necessarius, & nunc

denuò excusus. EIVSDEM POETICON ASTRONOMICON Libri quatuor. Quibus accesserunt similis argumenti, PALAEPHATI de fabulosis narrationibus, Liber I. F. FVLGENTII Placiadis episcopi Carthaginensis Mythologiarum Libri III. EIVSDEM de uocum antiquarum interpretatione, Liber I. PHVRNVTI De natura deorum, siue poeticarum fabularum allegorijs, speculatio. ALBRICI philosophi de Deorum imaginibus Liber. ARATI φαινομενῶν fragmentum, Germanico Cæsare interprete. EIVSDEM Phænomena græcè, cum interpretatione latina. PROCLI de sphæra libellus, Græcè & Latinè. INDEX rerum & fabularum in his omnibus scitu dignarum copiosissimus.

Imprint: BASILEAE, PER IOANNEM Heruagium, Anno 1549. Mense Martio.

Colophon: BASILEAE, PER IOANNEM Heruagium, Anno salutis humanæ M. D. XLIX. Mense Martio.

Folio. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Jacob Micylus. Reimpression of **Basel 1535**, using for Proclus the Latin text of Linacre/Ceporinus, and retaining the undated dedication to Otho Truchses.

References: USTC 617610. SPHAERA 10049.

Marburg 1549

SPHAERA PROCLI LATINE REDDITA PER THOMAM Linacrum Britannum. ADIECTIS QVIBVSDAM Thematibus, quæ ad ipsius Authoris explicationem non parum utilitatis habent.

Colophon: IMPRESSVM MARPVRGI, in die Martini, Anno M. D. XLIX.

Octavo. ps.-Proclus, *On the sphere*, Latin. The text is that of Linacre.

References: SPHAERA 10071.

Wittenberg 1549

PTOLEMAEI MATHEMATICÆ constructionis Liber primus græce & latine editus. ADDITÆ EXPLICATIONES ALIQUOT locorum ab

ERASMO RHEINHOLT Salueldensi.

Imprint: VVITTEBERGAE Ex Officina Iohannis Lufft. ANNO 1549.

Octavo. Ptolemy, *Almagest* (I), Greek and Latin, ed. Erasmus Rheinhold. Dedication by Rheinhold to Christoph von Carlowitz, dated ‘Pascate’ (Easter, *i.e.* 21 April) 1549. Commendatory verses in Latin and Greek by Philip Melanchthon. The Latin text is a new translation by Rheinhold.

Sometimes catalogued with the title *Tria priora capita primi lib. quadripartiti Ptolemaei*, and the translation itself sometimes attributed to Melanchthon.

References: USTC 688569. PAL 67.

Basel 1550

GVIDONIS BONATI FOROLIVIENSIS MATHEMATICI DE ASTRONOMIA TRACTATVS X. vniuersum quod ad iudiciariam rationem Natiuitatum, Aëris, Tempestatum, attinet, comprehendentes. Adiectus est Cl. Ptolemæi liber Fructus, cum Commentarijs Georgij Trapezuntij.

Imprint: BASILEÆ, ANNO M. D. L.

Folio. ps.-Ptolemy, *Centiloquium*, Latin, ed. Nicolaus Prucknerus (Prugener). Dedication by Prugener to Gulielmo Pagetus (William Paget, presumably to be identified with the first baron Paget), dated at Strasbourg on 3 August 1550. The text is incorporated in George of Trebizond’s commentary (*cf.* **Cologne 1544**).

References: USTC 607341, 601049. PAL 9.

London 1550

The descripcion of the Sphere or the frame of the worlde, ryght worthy to be red and studyed on, of all noble wyttes, specially of all those that be desyrous to attayne any perfect knowledge in Cosmography, or true descripcion of Reagions, Townes, or Countrees, set forth by Proclus

Diadochus, and Englysshed by wyllyam Salysbury.

Colophon: Imprynted by me Robert Wyer. In the yere of our Lorde GOD a. M. D. L. dwellyng at the sygne of saynt Johñ Euangelist, in saynt Martyns parysshe besyde Charynge crosse. And fynysshed the .vi. daye of februarie.

Quarto. ps.-Proclus, *On the sphere*, English, ed. William Salisbury. The first printing of this text in a modern language. Dedication by Salisbury to his cousin John Edwardes, dated at ‘Thames Inne, in Houlbourne’, 1550.

References: USTC 516483. ESTC S94797. SPHAERA 10014.

Basel 1551

CLAVDII PTOLEMAEI PELusiensis Alexandrini omnia quæ extant opera, præter Geographiam, quam non dissimili forma nuperrimè ædidimus: summa cura & diligentia castigata ab Erasmo Osualdo Schreckenfuchsio, & ab eodem Isagoica in Almagestum præfatione, & fidelissimis in priores libros annotationibus illustrata, quemadmodum sequens pagina catalogo indicat.

Imprint: BASILEÆ.

Colophon: BASILEAE IN OFFICINA HENRICHI PETRI, MENSE MARTIO, ANNO M. D. LI.

Folio. Ptolemy, *Almagest*; *Tetrabiblos*; *Centiloquium* (sp.); Proclus, *Exposition of Astronomical Hypotheses*. All Latin, ed. Erasmus Oswald Schreckenfuchs. A reimpression of **Basel 1541**, containing texts of George of Trebizond (*Almagest*), Camerarius/Plato of Tivoli (*Tetrabiblos*), Pontano (*Centiloquium*) and Valla (*Exposition*). Dedication by Schreckenfuchs to Wolfgang von Grünenstein, dated at Tübingen on 25 January 1551. Also includes the ‘Inerrantium stellarum significationes’, and Schreckenfuchs’ commentary on the *Almagest*. Portions of this imprint are sometimes catalogued separately.

References: USTC 604938. PAL 26.

Basel 1551a

IVLII FIRMICI MATERNI IVNIORIS SICVLI V. C. AD MA-

VORTium Lollianum, Astronomicōn Libri VIII, per NICOLAVM PRVCKNERVM Astrologum nuper ab innumeris mendis uindicati. HIS ACCESSERVNT, CLAVDII PTOLEMAEI Pheludiensis Alexandrini ἀποτελεσματών, quod Quadripartitum uocant, Lib. III. De inerrantium stellarum significationibus, Lib. I. Centiloquium eiusdem. EX ARABIBVS ET CHALDAEIS. HERMETIS uetustissimi Astrologi centum Aphoris. Lib. I. BETHEM Centiloquium. EIVSDEM de Horis Planetarum Liber alius. ALMANZORIS Astrologi Propositiones ad Saracenorum regem. ZAHELIS Arabis de Electionibus Lib. I. MESSAHALAH de ratione Circuli & Stellarum, & qualiter in hoc seculo operentur, Lib. I. OMAR de Natiuitatibus Lib. III. MARCI MANILII Poetæ disertissimi Astronomicōn Lib. V. Postremò, OTHONIS BRVNfelsII de Diffinitionibus & terminis Astrologiæ libellus isagogicus.

Imprint: BASILEAE, PER IOANNEM HERVAGIVM, ANNO Salutis humanæ M. D. L I. Mense Aprili.

Colophon: BASILEAE, Ex officina Ioannis Heruagij, Anno Salutis humanæ M.D.LI. Mense Aprili.

Folio. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.); both Latin, ed. Nicolaus Prucknerus (Prugener). Reissue of **Basel 1533c**, with the first signature replaced and now containing a preface addressed to Edward VI of England by Pruckner, dated 28 January 1551. (*PAL* reports a copy which retains the dedicatory letter to Brunfels, presumably with a cancel title page.)

The *Tetrabiblos* is in the translation of Plato of Tivoli; the *Centiloquium* in that of Pontano. Also contains the ‘Inerrantium stellarum significationes’.

References: USTC 602365. PAL 10.

Venice 1551

RAGIONAMENTI DE NICOLO TARTAGLIA SOPRA LA SVA TRAVAGLIATA INVENTIONE. Nelli quali se dechiara uolgarmente quel libro di Archimede Siracusano Intitolato. De insidentibus aquæ, Con altre speculatiue pratiche da lui ritrouate sopra le materie, che

stano, & chi non stano sopra lacqua, Vltimamente se assegna la ragione, et causa naturale di tutte le sottile, et oscure particolarità dette, et dichiarate nella detta sua trauagliata inuentione *con* molte altre da quelle dependenti.

Imprint: Apresso di Lautore.

Colophon: Stampata in Venetia per Nicolo Bascarini à instantia & requisitione & à proprie spese de Nicolo Tartaglia Autore. Nel mese di Maggio L'anno di nostra salute. 1551.

Quarto. Archimedes, *On floating bodies* (I), Italian, ed. Nicolò Tartaglia. The first printing of this text in a modern language. Dedication by Tartaglia to Antonio Landriano dated at Venice on 5 March 1551. The enunciations are also given in Latin. Frequently bound with other works of Tartaglia, particularly an undated printing of the *Regola generale da sulevare* (cf. **Venice 1562b**).

References: None identified.

Basel 1552

GEOGRAPHIAE CLAVDII PTOLEMÆi Alexandrini, Philosophi ac Mathematici præstantissimi, Libri VIII, partim à Bilibaldo Pirckheymero translati ac commentario illustrati, partim etiam Græcorum antiquissimorumque exemplariorum collatione emendati atque in integrum restituti. HIS ACCESSERVNT. Scholia, quibus exoleta locorum omnium nomina in Ptolemæi libris ad nostri seculi morem exponuntur. Indices duo hactenus à multis desiderati, quorum adminiculo, ueterum simul ac recentiorum locorum (utpote regionum, marium, insularum, promontiorum, montium, fluminum, urbium, &c.) situs, facillima ratione in tabulis depictisprehenduntur, CONRADI LYCOSTHENIS Rubeaquensis opera adiecti. Quibus præfixa est epistola in qua de utilitate tabularum Geographicarum ac duplicis indicis usu latè disseritur. Tabulæ nouæ quæ hactenus in nulla Ptolemaica editione uisæ sunt, per SEBASTIANVM MVNSTERVm. Geographicae descriptionis compendium, in quo uarij

gentium ac regionum ritus, mores atque consuetudines per eundem explicantur.

Imprint: BASILEAE.

Colophon: BASILEAE EX OFFICINA HENRICHI PETRI, MENSE MARTIO, ANNO M. D. LII.

Folio. Ptolemy, *Geography*, Latin, ed. Sebastian Münster. Reimpression of **Basel 1540/Basel 1542/Basel 1545**. Münster's address to the reader is dated at Basel in March 1552.

A *Geographia universalis, vetus et nova* is sometimes reported at Basel 1552, possibly in error for this.

References: USTC 604943.

Paris 1552

CLAVDII PTOlemæi Fructus, quod vulgò CENTILOQVIVM APPELLatur, ad Syrum fratrem: à Io. Pontano factus è Græco Latinus. Cui, quia ad nimium Solis stellarumque fulgorem hebetes lectoris oculi caligabant, offusa est clara ab I. Florano Reginaldo Florentino nubes: per quam faciliè tantum splendorem auida diuinandi iuuentus intueri possit.

Imprint: PARISIIS, Apud Thomam Richardum, sub Bibliis aureis, è regione collegij Remensis. 1552.

Quarto. ps.-Ptolemy, *Centiloquium*, Latin, ed. I. Floranus Reginaldus Florentinus. The text is evidently that of Pontano. A very rare imprint; the only copy known to me is in the Istituzione Biblioteca Classense (Ravenna).

References: USTC 204090.

Antwerp 1553

Procli de Sphaera LIBER. CLEOMEDIS DE MVNDO, SIVE CIRCULARIS inspectionis meteororum libri duo. Arati Solensis Phaenomena, siue Apparentia. Dionysij Aphri descriptio orbis habitabilis. Omnia

Græcè & Latinè ita coniuncta, vt conferri ab vtriusque linguæ studiosis, in quorum gratiam eduntur, possint: adiectis etiam Annotationibus.

Imprint: ANTVERPIAE, Ex officina Ioannis Loëi, Anno M. D. LIII.

Octavo. ps.-Proclus, *On the sphere*; Cleomedes, *On the circular motions of the celestial bodies*. Both Greek and Latin, ed. Marcus Hopper. Reimpression of **Basel 1547**, containing texts of Linacre/Ceporin (Proclus) and Valla (Cleomedes), and retaining the dedication to Ludovico Meier dated on 1 January 1547. The text is re-set, the Latin and Greek texts of Proclus and Cleomedes now appearing on facing pages.

The Aratus text has a separate title page with date 1554. Sometimes catalogued as 1553–54 or as 1554.

References: USTC 404202. SPHAERA 10040.

Basel 1553

Claudij PtoleMAEI, DE PRAEDICTIO nibus Astronomicis, cui titulum fecerunt Quadripartitum, Græcè & Latinè, Libri IIII. PHILIPPO MELANTHONE interprete. Eiusdem Fructus librorum suorum, siue Centum dicta, ex conuersione Iouiani Pontani.

Imprint: BASILEAE, PER IOannem Oporinum.

Colophon: BASILEAE, EX OFFICIna Ioannis Oporini, Anno Salutis humanæ M. D. LIII. Mense Augusto.

Octavo. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.); both Greek and Latin, ed. Philip Melanchthon. The Latin *Tetrabiblos* is a new translation by Melanchthon; the *Centiloquium* is in the Latin text of Pontano. Epistle of Melanchthon to Erasmus Ebner (von Eschenbach) dated March 1553.

References: USTC 604945. PAL 27.

Bordeaux 1553

Ex Mathematico PSELLI Breuiario Arithmetica, Musica, Geometria: Sphæra verò ex PROCLI Græco, ELIA VINETO Santone interprete.

Imprint: BVRDEGALAE, Apud Franciscum Morpanium, prope Carmelitas.

Quarto. ps.-Proclus, *On the sphere*, Latin, ed. Élie Vinet. A revision of Vinet's first translation (**Paris 1543/Paris 1553**). Vinet's epistle is dated at Bordeaux on 13 January 1553.

References: SPHAERA 10016.

London 1553

The Descripcion of the Sphere or Frame of the worlde.

Colophon: Imprynted by me Robert Wyer: Dwellynge at the Sygne of S. Johñ Euangelyst, in S. Martyns Parysshe besyde Charynge Crosse.

Quarto. ps.-Proclus, *On the sphere*, English, ed. William Salisbury. Reimpression of **London 1550**, including Salisbury's epistle to his cousin John Edwardes, dated at Holborne in 1550. Placed in 1553 by catalogues including the USTC.

References: USTC 504896. ESTC S105312.

Paris 1553

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. PROCLI SPHAERA. OMNIA GRAECE ET LATINE ita coniuncta, vt conferri ab vtriusque linguæ studiosis, in quorum gratiam eduntur, possint: adiectis annotationibus, quæ locos aliquot antehac nunquam intellectos, diligentérque castigatos explicant.

Imprint: PARISIIS, Apud Thomam Richardum, sub Bibliis aureis, è regione collegij Remensis. 1553.

Colophon: PARISIIS EXCVDEBAT THOMAS RICHARDVS, 1553.

Quarto. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Élie Vinet. The Latin text and commentary are from **Paris 1543**; the Greek text may also have been published in 1543, but no copies are known (Todd 2003b).

References: USTC 160524. SPHAERA 10015.

Paris 1553a

DE VSV ASTROLABI COMPENDIVM, SCHEMATibus commodissimis illustratum, ac mendis quamplurimis repurgatum. Authore Ioanne Martino Poblacion. Cui accessit Procli Diadochi fabrica, vsúsque Astrolabi, Georgio Valla Placentino interprete. Præterea Gregoræ Nicephori Astrolabus, eodem interprete.

Imprint: LVTETIÆ, Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso collegij Cameracensis. 1553.

Octavo. ps.-Proclus, *On the astrolabe*, Latin, ed. Johannes Martinus Poblacion. Reimpression of **Paris 1546a**, containing the text of Valla.

References: USTC 196630.

Paris 1553b

PROCLI SPHAERA, THOMA LINACRO BRITANNO INTERPRETE, Cum annotatiunculis, ex publicis prælectionibus Iacobi Tusani Regij Græcarum literarum professoris, exceptis.

Imprint: PARISIIS. Apud Martinum Iuuenem, sub insigni D. Christophori, è regione gymnasii Cameracensium. 1553.

Quarto. ps.-Proclus, *On the sphere*, Latin. Text from **Paris 1534/Paris 1543a**.

References: USTC 151386. SPHAERA 10066.

Basel 1554

ΠΡΟΚΛΟΥ ΤΟΥ ΔΙΑΔΟΚΟΥ ΤῶΝ ἈΣΤΡΟΝΟΜΩΝ εἰρημένων Πτολεμαίῳ, καὶ δυσπαρακολουθήντως ἐν τῷ αὐτοῦ τετραβίβλῳ, ἐπὶ τὸ σαφέστερον καὶ δυσπαρακολουθήτον μεταχείρησις. Procli paraphraSIS IN

QVATVOR PTOlemæi libros de Siderum effecttionibus. Cum præfatione Philippi Melanthonis.

Imprint: BASILEAE, APVD IOannem Oporinum.

Octavo. ps.-Proclus, *Commentary on the Tetrabiblos of Ptolemy*, Greek, ed. Philip Melanchthon. The first printing of this text. Dedication by Melanchthon to Hieronymus von Komerstadt dated on 1 September 1554.

References: USTC 687348.

Basel 1554a

HIERONYMI CARDANI Mediolanensis Medici & Philosophi præstantissimi, in CL. PTOLEMAEI PELVSIENSIS IIII de Astrorum Iudicijs, aut, ut uulgò uocant, Quadripartitæ Constructionis, libros commentaria, quæ non solum Astronomis & Astrologis, sed etiam omnibus philosophiæ studiosis plurimum adiumenti adferre poterunt. Nunc primùm in lucem ædita. PRAETEREA, Eiusdem Hier. Cardani Geniturarum XII, ET AVDITV MIRABILIA ET NOTatu digna, & ad hanc scientiam recte exercendam observatu utilia, exempla. Atque alia multa, quæ interrogationibus & electionibus præclarè seruiunt, uanaque à ueris rectè secernunt. Ac denique Eclipseos, quam grauissima pestis subsecuta est, exemplum.

Imprint: BASILEAE.

Colophon: EXCVDEBAT BASILEAE HENRICHVS PETRI MENSE MARTIO, ANNO MDLIII.

Folio. Ptolemy, *Tetrabiblos*, Latin, ed. Gerolamo Cardano. Dedication by Cardano to John Hamilton, Bishop of St Andrews, Scotland, dated at Milan on 16 June 1553. The Ptolemaic text is incorporated into Cardano's commentary.

References: USTC 604947. PAL 61.

Dortmund 1554

ΠΡΟΚΛΟΥ ΣΦΑΪΡΑ, ΤΩΝ ΤΗΣ ΑΣΤΡΟΛΟΓΙΑΣ ἐπιμεμένων χάριν ἐπιμελῶς ἐντυπωθεῖσα. PROCLI SPHAERA THOMA LINACRO

BRITANNO INTERPRETE.

Imprint: TREMONIAE. Excudebat Albertus Sartorius, Anno M. D. LIIII.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Albertus Sartorius. The Latin text is that of Linacre. Epistle of Sartorius ‘Scholae iuuentuti’ dated at Dortmund ‘pridie D. Laurentij Martyris’ (9 August).

References: SPHAERA 10061.

Louvain 1554

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. PROCLI SPHÆRA.

Imprint: LOVANII Apud Petrum Colonæum bibliopolam iuratum, 1554.

Octavo. ps.-Proclus, *On the sphere*, Greek. Text reprinted from **Paris 1534**.

References: USTC 410957. SPHAERA 10055.

Paris 1554

DE VSV ASTROLABI COMPENDIVM, SCHEMATibus commodissimis illustratum, ac mendis quamplurimis repurgatum. Authore Ioanne Martino Poblacion. Cui accessit Procli Diadochi fabrica, vsúsque Astrolabi, Georgio Valla Placentino interprete. Præterea Gregoræ Nicephori Astrolabus, eodem interprete.

Imprint: LVTETIÆ, Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso collegij Cameracensis. 1554.

Octavo. ps.-Proclus, *On the astrolabe*, Latin, ed. Johannes Martinus Poblacion. Reimpression of **Paris 1546a/Paris 1553a**, containing the text of Valla.

References: USTC 196738.

Lyon 1555

HIERONYMI CARDANI MEDIOLANENSIS MEDICI ET PHILOSOPHI PRAEstantissimi, In Cl. Ptolemæi Pelusiensis IIII de Astrorum Iudicijs, aut, vt vulgò vocant, Quadripartitæ Constructionis libros Commentaria, quæ non solum Astronomicis & Astrologis, sed etiam omnibus philosophiæ studiosis plurimum adiuventi adferre poterunt. Nunc recèns castigatissimè in lucem edita. PRAETEREA, Eiusdem Hier. Cardani Geniturarum XII. & auditu mirabiliz & notatu digna, & ad hanc scientiam rectè exercendam observatu vtilia, exempla. Atque alia multa, quæ interrogationibus & electionibus præclarè seruiunt, vanâque à veris rectè secernunt. Ac denique Eclipseos, quam grauißima pestis subsecuta est, exemplum.

Imprint: LVGDVNI, APVD THEOBALDVM PAGANVM. 1555.

Octavo. Ptolemy, *Tetrabiblos*, Latin, ed. Gerolamo Cardano. Reimpression of **Basel 1554a**, retaining the dedication to Hamilton dated 16 June 1553, and with the Ptolemaic text incorporated into Cardano's commentary.

References: USTC 151820. PAL 80.

Paris 1556

PTOLEMAEI MATHEMATICAE CONSTRUCTIONIS Liber primus. Additæ explicationes aliquot locorum ab ERASMO RHEINHOLT Salueldensi.

Imprint: LVTETIAE, Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso Collegij Cameracensis. 1556

Octavo. Ptolemy, *Almagest* (I), Latin, ed. Erasmus Rheinhold. Text taken from **Wittenberg 1549**; also includes the dedication by Rheinhold to Christoph von Carlowitz dated in 1549.

References: USTC 152153. PAL 35.

Paris 1556a

CLAVDII PTOLEMAEI MATHEMATICAE constructionis Liber

secundus Latina interpretatione recens donatus. Ad Io. Magnenium medicum, & regium Mathematicæ scientiæ professorem.

Imprint: LVTETIAE, Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso Collegij Cameracensis.

Octavo. Ptolemy, *Almagest* (II), Latin, ed. Stephanus Gracilis. Dedication by Gracilis to Joannes Magnenius (Jean Magnien), dated at Paris on 13 April 1556. Evidently a companion to **Paris 1556**.

References: USTC 199439. PAL 106.

Paris 1556b

PROCLI SPHÆRA, THOMA LINACRO BRITANNO INTERPRETE, Cum annotatiunculis, ex publicis prælectionibus Iacobi Tusani Regij Græcarum literarum professoris, exceptis.

Imprint: PARISIIS, Apud Martinum Iuuenem, sub insigni D. Christophori, è regione gymnasij Cameracensium. 1556.

Quarto. ps.-Proclus, *On the sphere*, Latin. Reimpression of **Paris 1553b**, with the text of **Paris 1534**.

References: USTC 154346. SPHAERA 10018.

Paris 1556c

DE VSV ASTROLABI COMPENDIVM, SCHEmatibus commodissimis illustratum, ac mendis quamplurimis repurgatum. Authore Ioanne Martino Poblacion. Cui accessit Procli Diadochi fabrica, vsúsque Astrolabi, Georgio Valla Placentino interprete. Præterea Gregoræ Nicephori Astrolabus, eodem interprete.

Imprint: LVTETIAE, Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso collegij Cameracensis. 1556.

Octavo. ps.-Proclus, *On the astrolabe*, Latin, ed. Johannes Martinus Poblacion. Reimpression of **Paris 1546a/Paris 1553a/Paris 1554**, containing the text of Valla.

References: USTC 152021.

Venice 1556

I QVATTRO LIBRI DELLA CACCIA, DI TITO GIOVANNI SCANDIANESE. CON LA DIMOSTRATIONE DE LVOCI DE GRECI ET Latini Scrittori, & con la Tradottione della Sfera di Proclo Greco in lingua Italiana tradotta dall'Autore, cosa à tal soggetto necessaria. ALLO ILLVS. ET ECCELLENTISS. DVCA HERCOLE ESTENSE SECONDO, DI FERRARA DVCA QVARTO. CON LA TAVOLA COPIOSISSIMA IN FINE.

Imprint: IN VINEGIA APPRESSO GABRIEL GIOLITO DE FERRARI, ET FRATELLI. M D LVI.

Quarto. ps.-Proclus, *On the sphere*, Italian, ed. Tito Giovanni Scandianese (Garzarini). The first Italian printing of this text. Dedication by Scandianese to Ercole II d'Este of Ferrara.

The Proclus text has a separate title page, with title *LA SFERA DI PROCLO, NVOVAMENTE TRADOTTA DAL GRECO ESSEMPARE IN IDIOMA ITALIANO, DA TITO GIOVANNI SCANDIANESE*. and imprint *IN VINEGLA APPRESSO GABRIEL GIOLITO DE FERRARI, ET FRATELLI. M D LVI*. It is dedicated by Scandianese to Abbot Giovan Battista of Carpi, the dedication dated at Venice on 12 November 1555. It is sometimes catalogued separately (USTC 851414, SPHAERA 10017).

References: USTC 855416.

Wittenberg 1556

LIBELLVS DE SPHÆRA PROCLI DIADOCHI, EX GRÆCO LATINVS FACTVS CARMINE HEROICO, A MARTINO RAKOCIO TVROCIENSI. PRAEMISSA EST ELEGIA CLArissimi uiri, D. Casparis Peuceri, Medici & Professoris Mathematicum in inclyta Vitebergæ

Academia. ADDITA EST ELEGIA AVTORIS, quæ continet Historiam Cancrorum.

Imprint: VVITTEBERGAE EXCVDEBAT IOHANNES CRATO. ANNO M. D. LVI.

Quarto. ps.-Proclus, *On the sphere*, Latin (verse), ed. Martinus Rakocius (Martin Rakovský). A new translation into Latin verse. Dedicatory verse by Caspar Peucer to Valentin Wagner dated at Wittenberg on 16 November 1555; another by Rakocius, also to Wagner, is also dated in November 1555.

References: USTC 672680. SPHAERA 10019.

Geneva 1557

ΑΡΧΙΜΗΔΟΥΣ ΤΟΥ ΣΥΡΑΚΟΥΣΙΟΥ ΕΠΙΠΕΔΩΝ ΙΣΟΡΡΟΠΙΩΝ, Η ΚΕΝΤΡΑ ΒΑΡΩΝ ΕΠΙΠΕΔΩΝ. ARCHIMEDIS SYRACVSAni de planorum AEquilibrijs, aut centra grauitatis planorum.

Imprint: EXCVDIT CRISPINVS M. D. LVII.

Archimedes, *On the equilibrium of planes*, Greek and Latin. Placed in Geneva by comparison with other Crispinus imprints.

References: None identified.

Paris 1557

PTOLEMAEI MATHEMATICAE CONSTRVCTIONIS Liber primus. Additæ explicationes aliquot locorum ab ERASMO RHEINHOLT Salueldensi.

Imprint: LVTETIAE, Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso Collegij Cameracensis. 1557

Octavo. Ptolemy, *Almagest* (I), Latin, ed. Erasmus Rheinhold. Reissue of **Paris 1556**, with text from **Wittenberg 1549** and dedicatory verse in Greek by Philip Melancthon, and including the dedication by Rheinhold to Christoph von Carlowitz dated in 1549.

References: USTC 198108. PAL 68.

Paris 1557a

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. PROCLI SPHÆRA. Cum annotatiunculis ex publicis prælectionibus Iacobi Tusani Regij Græcarum literarum professoris, exceptis.

Imprint: PARISIIS, Apud Martinum Iuuenem, sub insigni D. Christophori, è regione gymnasij Cameracensium. 1557.

Quarto. ps.-Proclus, *On the sphere*, Greek. Text from **Paris 1543a/Paris 1547a**.

References: USTC 160389. SPHAERA 10021.

Paris 1557b

DE VSV ASTROLABI COMPENDIVM, SCHEmatibus commodissimis illustratum, ac mendis quamplurimis repurgatum. Authore Ioanne Martino Poblacion. Cui accessit Procli Diadochi fabrica, vsúsque Astrolabi, Georgio Valla Placentino interprete. Præterea Gregoræ Nicephori Astrolabus, eodem interprete.

Imprint: LVTETIAE, Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso collegij Cameracensis. 1557.

Octavo. ps.-Proclus, *On the astrolabe*, Latin, ed. Johannes Martinus Poblacion. Reimpression of **Paris 1546a/Paris 1553a/Paris 1554/Paris 1556c**, containing the text of Valla.

References: USTC 152259.

Paris 1557c

MICHAEL PSELLVS DE ARITHMETICA, MVSICA, GEOMETRIA: & Proclus de Sphæra, Elia Vineto Santone interprete.

Imprint: PARISIIS, Apud Gulielmum Cauellat, in pingui gallina, ex aduerso collegij Cameracensis. 1557

Octavo. ps.-Proclus, *On the sphere*, Latin, ed. Élie Vinet. Reimpression of **Bordeaux 1553**, retaining Vinet's epistle to the reader dated at Bordeaux on 13 January 1553.

References: USTC 152233. SPHAERA 10020.

Paris 1557d

PASCHASII HAMELLII REGII MATHEMATICI Commentarius IN ARCHIMEDIS Syracusani præclari Mathematici librum de numero arenæ, multis locis per eundem Hamellium emendatum.

Imprint: LVTETIAE Apud Gulielmum Cauellat, sub pingui Gallina, ex aduerso collegij Cameracensis. 1557.

Octavo. Archimedes, *The sand reckoner*, Latin, ed. Pasquier (Pascal) Du Hamel. The text is incorporated into the commentary. Dedication by Du Hamel to Charles III of Lorraine dated at Paris in 1556.

References: USTC 152224.

Messina 1558

THEODOSII SPHAERICORVM ELEMENTORVM LIBRI. III. Ex traditione Maurolyci Messanensis Mathematici. MENELAI SPHAERICORVM LIB. III. Ex traditione eiusdem. MAVROLYCI SPHAERICORVM LIB. II. AVTOLYCI DE SPHAERA, QVAE MOVETVR Liber. THEODOSII DE HABITATIONIBVS. EVCLIDIS PHAENOMENA Breuissime demonstrata. Demonstratio & praxis trium tabellarum scilicet Sinus recti, Fœcundæ, & Beneficæ ad Sphæralia triangula pertinentium. COMPENDIVM MATHEMATICAE mira breuitate ex clarissimis Authoribus. Maurolyci de Sphæra sermo.

Colophon: MESSANAE IN FRETO SICVLO IMPRESSIT PETRVS

SPIRA MENSE AVGVSTO M. D. LVIII.

Folio. Theodosius, *Spherics*; Menelaus, *Spherics*; Autolycus, *On the moving sphere*; Theodosius, *On habitations*. All Latin, ed. Francesco Maurolico. The first printing of the Autolycus and Menelaus texts, and of the *Habitations*. Also contains the enunciations of Euclid, *Phenomena*, in the Latin translation of Maurolico. Address to Joannes Cerda by Maurolico dated at Messina in August 1558; epistle of Maurolico to the Emperor Charles V dated July 1556. The translation was completed by October 1534: see Carmody 1960a. In the Autolycus text the proofs are very much reduced.

References: USTC 858964. EiP Messina 1558.

Paris 1558

ΘΕΟΔΟΣΙΟΥ ΤΡΙΠΟΛΙΤΟΥ ΣΦΑΙΡΙΚΩΝ ΒΙΒΛΙΑ. Γ. Theodosij Tripolitæ SPHÆRICORVM, LIBRI TRES, NVNQVAM ANTEHAC GRÆCE excusi. Iidem latinè redditi per Ioannem Penam Regium Mathematicum, AD ILLVSTRISSIMVM PRINCIPEM CAROLVM LOTHARINGVM CARDINALEM.

Imprint: PARISIIS, Apud Andream Wechelum, sub Pegaso, in vico Bellouaco: Anno Salutis, 1558.

Quarto. Theodosius, *Spherics*, Greek and Latin, ed. Jean Pena. The first printing of this text in Greek. Privilege is dated 11 June 1557. The Latin is a new translation from the Greek.

References: USTC 206070.

Venice 1558

ARCHIMEDIS OPERA NON NVLLA À FEDERICO COMMANDINO VRBINATE NVPER IN LATINVM CONVERSA, ET COMMENTARIIS ILLVSTRATA. Quorum nomina in sequenti pagina leguntur.

Imprint: VENETIIS, apud Paulum Manutium, Aldi F. M D LVIII.

Quarto. Archimedes, *Measurement of a circle, On spirals, Quadrature of the parabola, On conoids and spheroids, The sand reckoner*; all Latin, ed. Federico Commandino. Dedication by Commandino to Rainutius Farnese.

References: USTC 810251.

Venice 1558a

PTOLEMAEI PLANISPHAERIVM. IORDANI PLANISPHAERIVM. FEDERICI COMMANDINI VRBINATIS IN PTOLEMAEI PLANISPHAERIVM COMMENTARIVS. In quo uniuersa Scenographices ratio quambreuissime traditur, ac demonstrationibus confirmatur.

Imprint: VENETHIS, M. D. LVIII.

Quarto. Ptolemy, *Planisphere*, Latin, ed. Federico Commandino. The translation is that of Hermann of Carinthia; Commandino adds a commentary. Dedication by Commandino to Rainutius Farnese.

References: USTC 851487. PAL 16.

Basel 1559

ΕΙΣ ΤΗΝ ΤΕΤΡΑΒΙΒΛΟΝ ΤΟΥ ΠΤΟΛΕΜΑΙΟΥ ΕΞΗΓΗΤΗΣ ἈΝΩΝΥΜΟΣ. IN CLAVDII PTOLEMÆI QVADRIPARTITVM ENARRATOR ignoti nominis, quem tamen PROCLVM fuisse quidam existimant. ITEM ΠΟΡΦΥΡΙΟΥ ΦΙΛΟΣΟΦΟΥ ΕΙΣΑΓΩΓΗ ΕΙΣ ΤΗΝ ἀποτελεσματικὴν του Πτολεμαίου. PORPHYRII PHILOSOPHI introductio in Ptolemæi opus de effectibus astrorum. PRAETEREA HERMETIS PHILOSOPHI DE REVOLVTIONIBVS NATiuitatum libri duo, incerto interprete.

Imprint: BASILEÆ.

Colophon: BASILEÆ. EX OFFICINA PETRIANA. ANNO M. D. LIX. MENSE SEPTEMBRI.

Folio. Porphyry, *Introduction to the Tetrabiblos of Ptolemy*, Greek and Latin.

The first printing of this text; the Latin is a new translation by Hieronymus Wolf. Address by the printer to the reader dated at Basel on 1 September 1559. The anonymous commentary mentioned on the title page is not the same as that printed in **Basel 1554** and there attributed to Proclus.

References: USTC 604946. PAL 11.

Padua 1560

PROCLI DIADOCHI LYCII PHILOSOPHI PLATONICI AC MATHEMATICI PROBATISSIMI IN PRIMVM EVCLIDIS Elementorum librum COMMENTARIORVM AD VNIVERSAM MATHEMATICAM DISCIPLINAM PRINCIPIVM ERVDITIONIS TRADENTIVM Libri IIII. A FRANCISCO BAROCIO PATRITIO VENETO summa opera, cura, ac diligentia cunctis mendis expurgati: Scholiis, & Figuris, quae in graeco codice omnes desiderabantur aucti: primùm iam Romanae linguae venustate donati, & nunc recens editi. Cum Catalogo Deorum, & Virorum Illustrium, atque Autorum: Elencho librorum, qui vel ab Autore, vel ab Interprete citati sunt: & Indice locupleti notabilium omnium in opere contentorum.

Imprint: PATAVII, Excudebat Gratosus Perchacinus 1560.

Colophon: PATAVII, Excudebat Gratosus Perchacinus. 1560.

Quarto. Proclus, *Commentary on the Elements of Euclid* (I), Latin, ed. Francesco Barozzi. Dedication by Barozzi to Daniele Barbaro dated at Patavia on 1 December 1559. The title-page assertion that this was the first Latin version of this work was strictly false, though it was the first (and in this period the only) one to be printed: see Campillo Bo 2023, esp. 208, 216 on this, and pp. 209–10 on Barozzi's Greek manuscript sources.

References: USTC 851416.

Paris 1560

PTOLEMAEI MATHEMATICAE CONSTRUCTIONIS Liber primus. Additæ explicationes aliquot locorum ab ERASMO RHEINHOLT Salueldensi.

Imprint: LVTETIAE, Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso Collegij Cameracensis. 1560

Octavo. Ptolemy, *Almagest* (I), Latin, ed. Erasmus Rheinhold. Reimpression of **Paris 1556/Paris 1557**, with text from **Wittenberg 1549**, dedicatory verse in Greek by Philip Melanchthon, and including the dedication by Rheinhold to Christoph von Carlowitz dated in 1549.

References: USTC 139045. PAL 36.

Paris 1560a

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. PROCLI SPHÆRA. Cum annotatiunculis ex publicis prælectionibus Iacobi Tusani Regij Græcarum literarum professoris, exceptis.

Imprint: PARISIIS, Apud Andream Wechelum, sub Pegaso, in vico Bellouaco: Anno Salutis, 1560.

Quarto. ps.-Proclus, *On the sphere*, Greek and Latin. Latin text reprinted from **Paris 1543a/Paris 1553b/Paris 1556b** (ultimately the text of **Paris 1534**).

References: USTC 198446. SPHAERA 10074.

Paris 1560b

PROCLI SPHAERA, THOMA LINACRO BRITANNO INTERPRETE, figuris & demonstrationibus nunc primùm illustrata: cum annotatiunculis Iacobi Tusani Regij Græcarum literarum professoris.

Imprint: LVTETIAE, Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso collegij Cameracensis. 1560.

Octavo. ps.-Proclus, *On the sphere*, Latin. Text reprinted from **Paris 1553b/Paris 1556b**, with the translation of Linacre and the annotations of Toussain.

References: USTC 138959. SPHAERA 10072.

Venice 1560

LA QVARTA PARTE DEL GENERAL TRATTATO DE' NVMERI ET MISVRE, DI NICOLO TARTAGLIA; NELLA QVALE SI RIDVCONO IN NVMERI QVASI LA MAGGIOR PARTE DELLE FIGVRE, COSI SVPERFICIALI, COME CORPOREE DELLA GEOMETRIA; ET OLTRE A' CIO' S'APPLICANO ALLA MATERIA, O SI METTENNO IN ATTO PRATTICO. COSE MOLTO VTILE À TVTTE LE QVALITÀ DELLE PERSONE, ET INFINITAMENTE DESIDERATE' de' studiosi delle Diuine Mathematice.

Imprint: IN VENETIA PER CVRTIO TROIANO M. V. LX.

Colophon: IN VINEGIA Per Comin da Tridino. M D L VII.

Folio. Archimedes, *On the sphere and cylinder* (I), Italian, ed. Nicolò Tartaglia. The first appearance of any part of this work in a modern language. Permissions to print dated 14 August 1556 and 29 July 1559. Dedication to Camillo Martinengo by Curtio Troiano, undated. The imprint date is presumably a misprint for M.D.LX. The Archimedean material is contained in book 3 of this volume, on fols. 44r–55v.

References: USTC 858113.

Basel 1561

PROCLI DE SPHÆRA LIBER I. CLEOMEDIS DE MVNDO, siue circularis inspectionis meteororum Libri II. ARATI SOLENSIS PHÆnomena, siue Apparentia. DIONYSII AFRI DESCRIPTIO Orbis habitabilis. Omnia Græcè & Latinè ita coniuncta, ut conferri ab utriusque linguæ studiosis possint. ADIECTIS Doctorum uirorum annotationibus. VNÀ CVM IO. HONTERI CORONENSIS De Cosmographiæ rudimentis duplici editione, ligata scilicet & soluta.

Imprint: BASILEÆ, PER HENRICVM PETRI.

Colophon: BASILEÆ, PER HENRICVM PETRI, ANNO DOMINI M. D. LXI.

Octavo. ps.-Proclus, *On the sphere*; Cleomedes, *On the circular motions of the celestial bodies*; both Greek and Latin, ed. Marcus Hopper. Expanded

reimpression of **Basel 1547/Antwerp 1553**, with a new dedication by Hopper to Adam, Sebastian, Sixtus, Henricus and Ioannes, sons of Heinrich Petri, dated at Basel on 1 March 1561. Notes by Erasmus Schrekenfuchs are added to the Proclus text.

References: USTC 686898. SPHAERA 10042.

Paris 1561

ΑΡΧΙΜΗΔΟΥΣ ΠΕΡΙ ΣΦΑΪΡΑΣ ΚΑΙ κυλίνδρου βιβλ. β. κύκλου μέτρησις. α. ARCHIMEDIS DE sphæra & cylindro lib. II. Circuli dimensio. I.

Imprint: PARISIIS, Apud Andream Wechelum, sub Pegaso, in vico Bellouaco: Anno Salutis 1561.

Quarto. Archimedes, *On the sphere and cylinder; Measurement of a circle*. Both Greek, ed. Petrus Ramus.

References: USTC 154503.

Venice 1561

LA GEOGRAFIA DI CLAVDIO TOLOMEO ALESSANDRINO, Nuouamente tradotta di Greco in Italiano, DA GIROLAMO RVSCCELLI, Con Espositioni del medesimo, particolari di luogo in luogo, & uniuersali sopra tutto il libro, et sopra tutta la GEOGRAFIA, ò modo di far la descrittione di tutto il mondo. Et con nuoue & bellissime figure in istampe di rame, oue, oltre alle XXVI antiche di Tolomeo, se ne son'aggiunte XXXVI altre delle moderne. CON la carta da nauicare, & col modo d'intenderla, & d'adoperarla. Aggiuntoui vn pieno discorso di M. GIOSEPPE Moletto Matematico. Nel quale si dichiarano tutti i termini & le regole appartenenti alla Geografia. Et con vna nuoua & copiosa Tauola di nomi antichi, dichiarati co i nomi moderni, & con molte altre cose vtilissime & necessarie, che ciascuno leggendo potrà conoscere. AL SACRATISSIMO ET SEMPRE FELICISSIMO

IMPERATOR FERDINANDO PRIMO.

Imprint: IN VENETIA, Appresso Vincenzo Valgrisi, M. D. LXI.

Quarto. Ptolemy, *Geography*, Italian, ed. Girolamo Ruscelli. Apparently a new translation from the Greek (*cf.* Venice 1548). Dedication by Ruscelli to the Emperor Ferdinand dated at Venice on 1 May 1561.

References: USTC 851489.

Paris 1562

PROCLI SPHAERA, THOMA LINACRO BRITANNO INTERPRETE, figuris & demonstrationibus nunc primum illustrata: cum annotatiunculis Iacobi Tusani Regij Græcarum literarum professoris.

Imprint: LVTETIAE: Apud Gulielmum Cauellat, in pingui Gallina, ex aduerso collegij Cameracensis. 1562.

Octavo. ps.-Proclus, *On the sphere*, Latin. Reimpression of Paris 1543a/Paris 1553b/Paris 1556b/Paris 1560b, with the text of Paris 1534.

References: USTC 208039. SPHAERA 10022.

Rome 1562

CLAVDII PTOLEMAEI LIBER DE ANALEMMATE, A Federico Commandino Vrbinatè instauratus, & commentariis illustratus, Qui nunc primum eius opera e tenebris in lucem prodit. Eiusdem Federici Commandini liber de Horologiorum descriptione.

Imprint: ROMAE, M. D. LXII. Apud Paulum Manutium Aldi F.

Quarto. Ptolemy, *Analemma*, Latin, ed. Federico Commandino. The first printing of this text. Dedication by Commandino to Ranutius Farnese.

References: USTC 851491. PAL 38.

Venice 1562

ARISTOXENI MVSICI ANTIQVISS. HARMONICORVM ELEMENTORVM LIBRI III. Cl. Ptolemæi Harmonicorum, seu de

Musica lib. III. Aristotelis de objecto Auditus fragmentum ex Porphyrij commentarijs. Omnia nunc primum latine conscripta & edita ab Ant. Gogauino Grauiensi.

Imprint: Venetiis, Apud Vincentium Valgrisium M D LXII.

Colophon: Venetijs apud Vincentium Valgrisium. M D LXII.

Quarto. Aristoxenus, *Elements of harmonics*; Ptolemy, *Harmonics*. Both Latin, ed. Antonio Gogava. The first printing of either text. Dedication by Gogava to Vespasiano Gonzaga dated on 1 December 1561. According to (Gallo 1976), Gogava ‘used very likely the codex Venezia, Biblioteca Nazionale Marciana, Z. graec. 322 (711)’ as his Greek source for Aristoxenus. The translation would be criticized by Wallis in **Oxford 1682**, and is characterised as ‘notoriously faulty’ by Palisca (1993, 9).

References: USTC 811011.

Venice 1562a

GEOGRAPHIA CL. PTOLEMAEI Alexandrini Olim a Bilibaldo Pirckheimherio translata, at nunc multis codicibus græcis collata, pluribusque in locis ad pristinam ueritatem redacta A IOSEPHO MOLETIO MATHEMATICO. Addita sunt in primum, & septimum librum ampliſſima eiusdem commentaria, quibus omnia, quæ ad Geographiam attinet, & quæ prætermiſſa sunt a Ptolemæo declarantur: atque nominibus antiquis regionum, ciuitatum, oppidorum, montium, sylvarum, fluuiorum, lacuum, cæterorumque locorum, apposita sunt recentiora. Adsunt LXIII. Tabulæ XXVII. nempe antiquæ, & reliquæ nouæ, quæ totam continent terram, noſtræ, ac Ptolemæi ætati cognitæ, Typisque æneis excuſſæ. Indices rerum quæ tractantur copioſiſſimi.

Imprint: VENETIIS, APVD VINCENTIVM VALGRISIVM. M D LXII.

Quarto. Ptolemy, *Geography*, Latin, ed. Josephus Moletius (Giuseppe Moletto). A new revision of the text of Pirckheimer (**Strasbourg 1525**; cf. **Basel 1540/Basel 1542/Basel 1545**). Moletto had contributed ‘un pieno

discorso' to Ruscelli's Italian version of the text (**Venice 1561**). Dedication by Moletto to Aloysius Cornelius dated at Venice on 1 January 1562. The maps are those of **Venice 1561**.

Occasionally catalogued with date 1652.

References: USTC 851490.

Venice 1562b

REGOLA GENERALE DI SOLEVARE OGNI fondata Naue & nauilii con Ragione.

Quarto. Archimedes, *On floating bodies* (I), Italian, ed. Nicolò Tartaglia. The Archimedean text is reprinted from **Venice 1551** and bears a dedication by Tartaglia to Antonio Landriano, now dated at Venice on 12 June 1562. The volume has no colophon, and in the copy I have seen no title page nor imprint.

References: USTC 858103.

Venice 1564

GEOGRAPHIA CL. PTOLEMAEI ALEXANDRINI Olim ab alijs translata, at nunc multis codicibus Græcis collata, pluribusque in locis ad pristinam ueritatem mira accuratione redacta. Addita sunt in primum & septimum librum amplissima commentaria, quibus omnia, quæ ad Geographiam attinent, & quæ prætermitta sunt à Ptolemæo, declarantur: atque nominibus antiquis Regionum, Ciuitatum, Oppidorum, Montium, Sylvarum, Fluuiorum, Lacuum, cæterorumque locorum apposita sunt recentiora. Adsunt LXIII Tabulæ, XXVII nempe antiquæ, & XXXVII nouæ, quæ totam continent terram, nostræ, ac Ptolemæi ætati cognitam, TYPISQUE AENEIS excusæ. Indices rerum, quæ tractantur, copiosissimi.

Imprint: VENETIIS, EX OFFICINA STELLAE, IORDANI ZILETI. M D LXIII.

Quarto. Ptolemy, *Geography*, Latin, ed. Josephus Moletius (Giuseppe

Moletto). Reissue of **Venice 1562a**, with the first sheet re-set.

References: USTC 851493.

Venice 1564a

LA GEOGRAFIA DI CLAVDIO TOLOMEO ALESSANDRINO, Nuouamente tradotta di Greco in Italiano DA IERONIMO RVSCCELLI, CON ESPOSITIONI del medesimo, particolari di luogo in luogo, & uniuersali sopra tutto il libro, & sopra tutta la GEOGRAFIA, ò modo di far la descriptione di tutto il mondo. ET CON NVOVE & bellissime figure in istampe di rame, oue, oltre alle XXVI antiche di Tolomeo, se ne son'aggiunte XXXVI altre delle moderne Con la carta da nauicare, & col modo d'intenderla, & d'adoperarla. AGGIVNTOVI un pieno discorso di M. GIOSEPPE Moletto Matematico. Nel quale si dichiarano tutti i termini & le regole appartenenti alla Geografia. ET CON VNA nuoua & copiosa Tauola de'nomi antichi, dichiarati co i nomi moderni, & con molte altre cose vtilissime & necessarie, che ciascuno leggendo potrà conoscere. Al sacratissimo & sempre felicissimo Imperator FERDINANDO PRIMO.

Imprint: IN VENETIA, Appresso Giordano Ziletti, al segno della Stella, M. D. LXIII.

Quarto. Ptolemy, *Geography*, Italian, ed. Girolamo Ruscelli. Reimpression of **Venice 1561**, retaining the dedication to Emperor Ferdinand dated at Venice on 1 May 1561. Moletto's 'Discorso' has a separate title page with date 1564.

References: USTC 851492.

Bologna 1565

ARCHIMEDIS DE IIS QVAE VEHVNTVR IN AQVA LIBRI DVO. À FEDERICO COMMANDINO VRBinate IN PRISTINVM NITOREM RESTITVTI, ET COMMENTARIIS ILLVSTRATI.

Imprint: BONONIAE, Ex Officina Alexandri Benacii. M D LXV.
Quarto. Archimedes, *On floating bodies*, Latin, ed. Federico Commandino.
Dedication by Commandino to Ranutius Farnese, undated.
References: USTC 810252.

Padua 1565

PROCLI DIADOCHI SPHÆRA.

Colophon: Patauui, Laurentius Pasquatus excudebat. 1565.
Octavo. ps.-Proclus, *On the sphere*, Latin and Italian, ed. Pietro Catena.
Dedication by Catena to the students of Padua (not dated). The Latin text is that of Linacre/Ceporin.
References: USTC 851411. SPHAERA 10023.

Paris 1565

LE LIVRE D'ARCHIMEDE DES POIS, QVI AVSSI EST DICT DES CHOSSES TOMBANTES EN L'HVMIDE, TRADVICT ET COMMENTÉ par Pierre Forcadel de Bezies lecteur ordinaire du Roy es Mathematiques en l'Vniuersité de Paris. Ensemble ce qui se trouue du Liure d'Euclide intitulé du leger & du pesant traduit & commenté par le mesme Forcadel.

Imprint: A PARIS. Chez Charles Perier, demourant en la rue S. Iean de Beauuais, au Bellerophon. 1565.

Quarto. Archimedes, *On floating bodies*, French, ed. Pierre Forcadel. The first printing of this text in French. Also contains Euclid, *De levi et ponderoso* (fragment). Dedication by Forcadel to M. Bounaud, dated at Paris on 25 March 1565.

References: USTC 29458. EiP Paris 1565a.

Paris 1565a

LE PREMIER LIVRE D'ARCHIMEDE DES CHOSES EGALLEMENT PESANTES, Traduit & commenté par Pierre Forcadel de Bezies, lecteur ordinaire du Roy és Mathematiques, en l'université de Paris.

Imprint: A PARIS. Chez Charles Perier, rue S. Jean de Beauuais, au Bellerophon. 1565.

Quarto. Archimedes, *On the equilibrium of planes* (I), French, ed. Pierre Forcadel. Dedication by Forcadel to 'Monseigneur le Prothonotaire d'Angoulesme', dated at Paris on 10 November 1564. The first printing of any part of this text in a modern language.

References: USTC 24408.

Venice 1565

ARCHIMEDIS DE INSIDENTIBVS AQVAE. LIBER PRIMVS.

Imprint: VENETIIS, APVD CVRTIVM TROIANVM. M D LXV.

Quarto. Archimedes, *On floating bodies* (I), Latin. Dedication by Curzio Troiano to Fabritius Denores, undated.

References: USTC 810253.

Venice 1565a

ARCHIMEDIS DE INSIDENTIBVS AQVAE. LIBER SECVNDVS.

Imprint: VENETIIS, APVD TROIANVM CVRTIVM. M D LXV.

Quarto. Archimedes, *On floating bodies* (II), Latin. Dedication by Curzio Troiano to Fabritius Denores, undated. Evidently a companion to **Venice 1565** and bound with it in the copies I have seen, though the pagination is not continuous and this imprint has a separate title page.

References: USTC 810253.

Basel 1566

IOANNIS IOVIANI PONTANI DE REBVS COELESTIBus Libri X IIII. TOMVS TERTIVS EIVSDEM de Luna fragmentum, ITEM COMMENTARIORVM in Centum Claudij Ptolemæi sententias, Libri duo.

Imprint: BASILÆ.

Octavo. ps.-Ptolemy, *Centiloquium*, Latin. Third volume of a new edition of the *Opera* of Pontano, thus a new edition of **Venice 1519/Florence 1520/Basel 1538a/Basel 1540b**, with the Ptolemaic text incorporated into Pontano's commentary. Dedication by Sixtus Henricpetri to Erasmus Oswald Schrekenfuchs (*cf.* **Basel 1551**) and to his sons Lorenz, Oswald and Jacob, dated at Basel in 1566.

The volumes are sometimes catalogued with date 1556, and the Ptolemaic section is occasionally catalogued separately.

References: USTC 698690 (set) 604857 (vol. 3). PAL 95.

Bologna 1566

APOLLONII PERGAEI CONICORVM LIBRI QVATTVOR. VNÀ CVM PAPPI ALEXANDRINI LEMMATIBVS, ET COMMENTARIIS EVTOCII ASCALONITAE. SERENI ANTINSENSIS PHILOSOPHI LIBRI DVO NVNC PRIMVM IN LVCEM EDITI. QUAE OMNIA NVPER FEDERICVS Commandinus Vrbinas mendis quamplurimis expurgata è Græco conuertit, & commentariis illustrauit.

Imprint: BONONIAE, EX OFFICINA ALEXANDRI BENATII. M D LXVI.

Quarto. Apollonius, *Conics* (I–IV); Eutocius, *Commentary on the first four books of the Conics of Apollonius*; Serenus, *On the section of a cylinder, On the section of a cone*; all Latin, ed. Federico Commandino. First printing of the Eutocius and Serenus texts. Also contains lemmas concerning conic sections from Pappus. Dedication to Guidobaldo II della Rovere. The imprint date is sometimes reported as 1569, apparently in error.

References: USTC 809796.

Florence 1567

ΗΙΠΠΑΡΧΟΥ ΒΙΘΥΝΟΥ ΤΩΝ ΑΡΑΤΟΥ ΚΑΙ ΕΥΔΟΞΟΥ ΦΑΙΝΟΜΕΝΩΝ ΕΞΗΓΗΣΕΩΝ βιβλία γ'. Τοῦ αὐτοῦ ἀστερισμοὶ. ΑΧΙΛΛΕΩΣ ΣΤΑΤΙΟΥ ΠΡΟΛΕΓΟΜΕΝΑ εἰς τὰ Αράτου Φαινόμενα. ΑΡΑΤΟΥ ΒΙΟΣ ΚΑΙ ΣΧΟΛΙΑ ΠΑΛΑΙΩΝ τινῶν εἰς τὸ αὐτοῦ ποίημα. HIPPARCHI BITHYNI IN ARATI ET EUDOXI Phaenomena Libri III. Eiusdem Liber Asterismorum. ACHILLIS STATII IN ARATI PHAENOMENA. Arati vita, & fragmenta aliorum veterum in eius Poema.

Imprint: FLORENTIAE. In officina IVNTARVM, Bernardi Filiorum. M D LXVII.

Colophon: FLORENTIAE APUD HEREDES BERNARDI IVNTAE M D LXVII.

Folio. Hipparchus, *Commentary on the Phaenomena of Eudoxus and Aratus*, Greek and Latin, ed. Piero Vettori. The first printing of this text. Also contains a *Liber asterismorum* attributed to Hipparchus and the commentary of Achilles Statius on Aratus' *Phaenomena*. Dedication by Vettori to Cosimo de' Medici, undated.

References: USTC 835746.

Poitiers 1567

SPHAERA Procli, Elia Vineto SANTONE INTERPRETE.

Imprint: PICTAVIS, Apud Enguilbertum Marnefium.

Quarto. ps.-Proclus, *On the sphere*, Latin. The text is that of Vinet's revised translation (**Bordeaux 1553/Paris 1557c**); the commentary is the one that had accompanied his original translation (**Paris 1543/Paris 1553**). Dated 1567–68 by SPHAERA, 1567 by USTC, and placed after 1553 by Todd (2004b).

USTC 110407 has an apparently similar imprint listed without date; USTC 112668 (also reported by Todd) is a Proclus *Sphaera* at Poitiers by the frères Bouchet (who are known to have worked with the de Marnef brothers), also without date. For neither of these can I confirm the current existence of copies.

References: USTC 112659. SPHAERA 10064.

Wittenberg 1569

REGVLAE ARTIS MATHEMATIcæ, græce & latine. CLAVDIO PTOLOmeo Authore. OPVS QVIDEM VTILE, & studiosis omnibus in hanc artem uersantibus multo necessarium. Huic addidit ERASMI RHEINHOLT Salueldensi Explicationes aliquot pulcherrimæ.

Imprint: Anno, 1569.

Octavo. Ptolemy, *Almagest* (I), Greek and Latin, ed. Erasmus Rheinhold. Reissue of **Wittenberg 1549**, with the first signature re-set. Some catalogues, including the USTC, place this issue in Wittenberg (by Hans or Johannes Lufft).

References: USTC 690502. PAL 37.

Basel 1570

C. IVLII HYGINI, AVGVSTI LIBERTI, FABVLARVM LIBER, AD OMNIVM POETARVM LECTIONEM MIRÈ necessarius, & nunc denuò excusus. EIVSDEM POETICON ASTRONOMICON Libri quatuor. Quibus accesserunt similis argumenti, PALAEPHATI De fabulosis narrationibus Liber I. F. FVLGENTII Placiadis episcopi Carthaginensis Mythologiarum Libri III. EIVSDEM De uocum antiquarum interpretatione Liber I. PHVRNVTI De natura deorum, siue poeticarum fabularum allegorijs, speculatio. ALBRICI philosophi De deorum imaginibus Liber. ARATI φαινομένων fragmentum, Germanico Cæsare interprete. EIVSDEM Phænomena græcè, cum

interpretatione Latina. PROCLI De sphæra libellus, Græcè & Latinè. INDEX rerum & fabularum, in his omnibus scitu dignarum, copiosissimus.

Imprint: BASILEAE, EX OFFICINA HERVAGIANA, per Eusebium Episcopium. Anno Salutis humanæ M. D. LXX.

Colophon: BASILEAE, EX OFFICINA HERVAGIANA, PER EVSEBIVM EPISCOPIVM, Anno Salutis humanæ M. D. LXX. Mense Augusto.

Folio. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Jacob Micyllus. Reimpression of **Basel 1535/Basel 1549**, using for Proclus the Latin text of Linacre/Ceporin, and retaining the undated dedication to Otho Truchses. The *Sphere* is sometimes catalogued separately.

References: USTC 617529. SPHAERA 10043.

Strasbourg 1570

ΕΥΚΛΕΙΔΟΥ ΣΤΟΙΧΕΙΩΝ ΤΟ ΠΡΩΤΟΝ. ΗΡΩΝΟΣ ΑΛΕΞΑΝΔΡΕΟΣ ὀνόματα γεωμετρικά. EVCLIDIS ELEMENTORUM Liber primus. HERONIS ALEXANDRINI vocabula geometrica: antehac nunquam edita. græcè & latinè. Per Cunradum Dasypodium, in vsum Academiæ Argentinensis.

Imprint: ARGENTORATI Apud hæredes Christiani Mylij. M. D. LXX.

Octavo. ps.-Hero, *Definitions*, Greek and Latin, ed. Conrad Dasypodius. The first printing of this text. Also contains Euclid, *Elements* I. Dedication to D. Daniel, archbishop of Mainz, dated 1 May 1570.

References: USTC 654431. EiP Strasbourg 1570.

Strasbourg 1571

EVCLIDIS ELEMENTORVM Liber primus. Item, HERONIS ALEXANDRINI vocabula quædam geometrica: ante hac nunquam

edita, græcè & latinè. Per M. Cunradum Dasypodium.

Imprint: ARGENTINAE, 1571.

Octavo. ps.-Hero, *Definitions*, Greek and Latin, ed. Conrad Dasypodius. Reissue of **Strasbourg 1570**, retaining the dedication to D. Daniel, archbishop of Mainz, dated 1 May 1570, and also containing Euclid, *Elements* I.

References: USTC 654841. EiP Strasbourg 1571.

Bologna 1572

TRATTATO DELLA DESCRITTIONE DELLA SFERA CELESTE
IN PIANO DI CL. TOLOMEO ALESSANDRINO DAL SIG. HER-
COLE BOTTRIGARO TRADOTTO IN PARLARE ITALIANO.
Et molti luochi di quello corrotti, oscuri, & difficili alla sua integritade
ridotti, & dichiarati. AGGIONTОВI ANCHO LA RAGIONEVOLE
confirmatione d'alcune demonstrationi, & operationi, ET NEL FINE
TVTTE L'OCCORRENTI OPERATIONI numerali secondo il puro,
& vero senso delle proprie parole dell'Autore, postoui non solo per
intiero ammaestramento di quelle: ma a giustificatione de i numeri
variati in essa Tradottione.

Imprint: IN BOLOGNA, PER ALESSANDRO BENACCIO.
M D LXXII.

Colophon: IN BOLOGNA PER ALESSANDRO BENACCIO.
M D LXXII.

Quarto. Ptolemy, *Planisphere*, Italian, ed. Ercole Bottrigari. The first
printing of this text in a modern language.

References: USTC 851494.

Paris 1572

DEVX LIVRES D'AVTOLYCE L'VN DE LA SPHERE QVI EST
MEVE ET L'AVTRE DV LEVER ET COVcher des Estoilles non er-
rantes, ensemble le liure de Theodose des habitations. Traduictz par P.

Forcadel Lecteur du Roy ez Mathematiques.

Imprint: A PARIS, De l’Imprimerie de Hierosme de Marnef & Guillaume Cauellat, au mont S. Hilaire à l’enseigne du Pelican. 1572.

Quarto. Autolycus, *On the moving sphere; On risings and settings of the stars*; Theodosius, *On habitations*. All French, ed. Pierre Forcadel. The first printing of any of these texts in a modern language; for the *Risings and settings*, the first complete printing in any language. Dedication by Forcadel to Philip Desprez, dated at Paris on 20 May 1572.

References: USTC 21203.

Pesaro 1572

ARISTARCHI DE MAGNITVDINIBVS, ET DISTANTIIS SOLIS, ET LVNAE, LIBER CVM PAPPI ALEXANDRINI explicationibus quibusdam. À FEDERICO COMMANDINO Vrbinatē in latinum conuersus, ac commentarijs illustratus.

Imprint: PISAVRI, Apud Camillum Francischinum. M D LXXII.

Colophon: PISAVRI. Apud Camillum Francischinum. MDLXXII.

Quarto. Aristarchus, *On the sizes and distances of the Sun and Moon*, Latin, ed. Federico Commandino. Also contains excerpts from Pappus on the same subject. Dedication to Alderano Malaspina, undated.

WorldCat reports a version of this imprint dated 1558, but the catalogue of the only holding library, the Niedersächsische Staats- und Universitätsbibliothek Göttingen, does not confirm this and I suspect a mistake (XXII misread for VIII, perhaps in a damaged imprint).

References: USTC 810838.

Strasbourg 1572

SPHAERICAЕ DOCTRINÆ PROPOSITIONES GRÆCÆ ET LATINÆ: nunc primum per M. Cunradum Dasypodium in lucem editæ. quorum autores sequens indicat pagina.

Imprint: ARGENTORATI Excudebat Christianus Mylius:
M. D. LXXII.

Octavo. Autolycus, *On risings and settings of the stars; On the moving sphere*; Theodosius, *On days and nights; On habitations; Spherics*; all enunciations only, Greek and Latin, ed. Conrad Dasypodius. The first Greek printing of the Autolycus text and the *Days and nights* and *Habitations*. Also contains Barlaam's *Logistica astronomica*, and Euclid's *Phenomena*. The Greek text of Theodosius is preceded by dedications to Johannes Cratonus and Joannes Sambucus (János Zsámboky), both dated 1 December 1571; that of Baarlam (which has a separate title page) by a dedication to Andrea Sbardellati dated 3 December. The Latin text of Theodosius is preceded by a dedication to Petrus Ramus dated 4 December and that of Barlaam (which also has a separate title page) by a dedication to Robert Renousson dated 5 December.

References: USTC 694359. EiP Strasbourg 1572.

Venice 1572

HERONIS MECHANICI LIBER DE MACHINIS BELLICIS,
NEC NON LIBER DE GEODAESIA À FRANCISCO BAROCIO
Patritio Veneto latinitate donati, multis mendis expurgati, & figuris, ac
scholijs illustrati.

Imprint: VENETIIS, Apud Franciscum Franciscum Senensem.
1572.

Quarto. Hero, *War machines, Geodesia*, both Latin, ed. Francesco Barozzi.
The first printing of these texts. Dedication to Vincenzo Gonzaga.

References: USTC 805016.

Florence 1573

LA PROSPETTIVA DI EVCLIDE, Nella quale si tratta di quelle cose,
che per raggi diritti si veggono: & di quelle, che con raggi reflexi nelli

SPECCHI appariscono. Tradotta dal R. P. M. Egnatio Danti Cosmographo del Seren. Gran Duca di Toscana. Con alcune sue Annotationi de'luoghi piu importanti. INSIEME CON LA PROSPETTIVA DI Eliodoro Larisseo Cauata della Libreria Vaticana, e tradotta dal medesimo nuouamente data in luce.

Imprint: IN FIRENZA. Nella Stamperia de'Giunti. MDLXXIII.

Colophon: In FIRENZE. Nella stemperia de'Giunti. M D LXXIII.

Quarto. Heliodorus, *Optics*, Greek, Latin and Italian, ed. Ignazio Danti. The first printing of this text. Also contains Euclid, *Optica* and *Catoptrica*, in Italian. Dedication by Danti to the Academy of design of Perugia, dated at Florence on 15 June 1573. The Italian Heliodorus has a separate title page with title: *LA PROSPETTIVA DI ELIODORO LARISSEO, TRADOTTA DAL REVERENDO Padre M. Egnatio Danti Cosmografo del Serenissimo Gran Duca di Toscana, Con alcune breui annotationi del medesimo, Et di nuouo data in luce.* and imprint *IN FIRENZA, Nella Stamperia de'Giunti. MDLXXIII.* The Greek/Latin Heliodorus also has a separate title page with title: *ΗΛΙΟΔΩΡΟΥ ΛΑΡΙΣΣΑΪΟΥ ΚΕΦΑΛΑΙΑ ΤΩΝ ΟΠΤΙΚΩΝ. HELIODORI LARISSAEI CAPITA OPTICORVM.* and imprint *FLORENTIAE, Ex Officina Iunctia. M D LXXIII.*

Riccardi (1887–93, entry 1574¹) stated that he owned a copy dated 1574, but I have seen no other confirmation and suspect a mistake or misprint. USTC reports the imprint 'nella stamperia de' haer. Bernardo I Giunta', but I have not seen an example of this.

References: USTC 828479. EiP Florence 1573.

Florence 1573a

LA SFERA DI PROCLO LICEO TRADOTTA DA MAESTRO Egnatio Danti; Cosmografo del Serenissimo Gran Duca di Toscana. Con le Annotazioni, & con l'vso della Sfera del medesimo.

Imprint: IN FIRENZA Nella Stamperia de'Giunti. M D LXXIII.

Quarto. ps.-Proclus, *On the sphere*, Italian, ed. Ignazio Danti. Dedication by Danti to Isabella de'Medici dated at Florence on 26 October 1573.

References: USTC 851417. SPHAERA 10025.

Paris 1573

LA SPHAIRE DE PROCLE, PHILOSOPHE GREGOIS. TRANSLATEE DE GREC en François, par Helie Vinet. Reueuë & corrigée par le translateur.

Imprint: A PARIS, De l’Imprimerie de Hierosme de Marnef, & Guillaume Cauellat, au mont S. Hilaire, à l’enseigne du Pelican. 1573.

Octavo. ps.-Proclus, *On the sphere*, French, ed. Élie Vinet. The first French printing of this text definitely known to me, but the ‘reueuë & corrigée’ of the title page suggests that an earlier printing of this translation existed.

USTC 80641 reports a French version of the *De Sphaera* printed at Poitiers in 1544 by Enguilbert de Marnef, citing several bibliographic sources but no known copies. I have not been able to locate a copy, nor a library whose current catalogue asserts the existence of this imprint: if this is not a ghost deriving from a mistake in an early catalogue, it may be a lost book.

In some copies the imprint date is changed by hand to 1583.

References: USTC 8618. SPHAERA 10024.

Venice 1574

LA GEOGRAFIA DI CLAVDIO TOLOMEO ALESSANDRINO, Già tradotta di Greco in Italiano da M. GIERO. RVSCELLI: & hora in questa nuoua editione da M. GIO. MALOMBRA ricorretta, & purgata d’infiniti errori: come facilmente nella Prefatione a’ Lettori può ciascuno vedere. Con L’ESPOSITIONI del RVSCELLI, particolari di luogo in luogo, & uniuersali, sopra tutto il libro, & sopra tutta la GEOGRAFIA, o Modo di fare la descrizione del Mondo. Con vna copiosa Tauola de’ Nomi antichi, dichiarati co’ Nomi moderni: dal MALOMBRA riueduta, & ampliata. Et con un Discorso di M. GIOSEPPE MOLETO, doue si dichiarano tutti i termini appartenenti

alla Geografia. Accresciuto di nuouo del modo di fare i Mappamondi, le Balle, le Tauole di Geografia, & di molte figure necessarie. AL CLARISS. Sr. GIACOMO CONTARINI.

Imprint: IN VENETIA, Appresso Giordano Ziletti. M D LXXIII.

Quarto. Ptolemy, *Geography*, Italian, ed. Giovanni Malombra. New edition of **Venice 1561/Venice 1564a**, thus based on the text of Girolamo Ruscelli. Dedication by Giordano Ziletti to Giacomo Contarini dated 1 January 1574.

The *Espositioni* of Ruscelli and the *Discorso* of Moletto have separate title pages, both dated 1573. Possibly for this reason, this imprint is sometimes reported with the date 1573–4.

USTC 851496, based on the *Censimento nazionale delle edizioni italiane del XVI secolo*, reports a unique copy dated 1579 in the Biblioteca del Monastero di S. Teresa (Matelica). This seems highly likely to be a mistake for the present imprint.

References: USTC 851495.

Augsburg 1575

TABVLÆ INSTITVTIONVM ASTRONOMICARVM: GEORGII HENISCHII BARTFELDENSIS. Adiuncta est Sphæra Procli cum textu Græco è regione in latinam linguam conuerso.

Imprint: AVGVSTÆ VINDELICORVM ex officina typographica Michaëlis Mangeri. M. D. LXXV.

Quarto. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Georg Henisch. The Latin is a new translation. Dedication by Georg Henisch to Heinrich Rechlinger, Christoph Peutingen and the Consuls of the Senate of the Republic of Augsburg, dated at Augsburg in June 1575.

References: USTC 695914. SPHAERA 10026.

Basel 1575

DIOPHANTI ALEXANDRINI Rerum Arithmeticarum Libri sex, quorum primi duo adiecta habent SCHOLIA, MAXIMI (ut coniectura

est) PLANVDIS. Item LIBER DE NVMERIS POLYGONIS seu Multiangulis. Opus incomparabile, ueræ Arithmeticæ Logisticæ perfectionem continens, paucis adhuc uisum. À GVIL. XYLANDRO Augustano incredibili labore Latinè redditum, & COMMENTARIIS explanatum, inque lucem editum, AD Illustriſſ. Principem LVDOVICVM Vuirtembergensem.

Imprint: BASILEAE PER EVSEBIVM EPISCOPIVM, & NICOLAI Fr. hæredes. M D LXXV.

Folio. Diophantus, *Arithmetic*, Latin, ed. Wilhelm Xylander (Holtzman). The first printing of this text. Dedication by Xylander to Ludwig von Württemberg dated at Heidelberg 14 June 1574.

References: USTC 637667.

Urbino 1575

HERONIS ALEXANDRINI SPIRITALIVM LIBER. À FEDERICO COMMANDINO VRBinate, EX GRAECO, NVPER IN LATINVM CONVERSVS.

Imprint: URBINI M D LXXV.

Colophon: VRBINI M D LXXV.

Quarto. Hero, *Pneumatics*, Latin, ed. Federico Commandino. The first printing of this text. Dedication by Valerio Spaccioli to Giulio della Rovere, undated.

USTC 835652 reports an imprint of 1579 based on a unique copy in the Biblioteca Marucelliana. I cannot confirm this from that library's catalogue, and believe this is a mistake for the present imprint.

References: USTC 835651.

Basel 1578

HIERONYMI CARDANI, IN CL. PTOLEMAEI DE ASTRORVM IVDICIIS, AVT (VT VVLGÒ APPELLANT) QVADRIpartitæ

Constructionis Lib. III. COMMENTARIA, ab AVTORE postremùm castigata, & locupletata. HIS ACCESSERVNT, EIVSDEM CARDANI, DE SEPTEM ERRATICARVM STELLARVM qualitatibus atque uiribus liber posthumus, antè non uisus. GENITVRARVM item XII. ad hanc scientiam rectè exercendam observatu utilium, exempla. ITEM, CVNRADI DASYPDII, MATHEMATICI ARGENT. SCHOLIA ET RESOLVTIONES SEV TABVLAE IN LIB. III. Apostelmaticos CL. PTOLEMAEI: Vnâ cum APHORISMIS eorundem librorum. Denique breuis explicatio ASTRONOMICI HOROLOGII Argentoratensis, ad ueri & exacti temporis inuestigationem extracti.

Imprint: BASILÆ EX OFFICINA HENRICPETRINA.

Colophon: BASILÆ, EX OFFICINA HENRICPETRINA, ANNO NOSTRAE SALVTIS RECVPERATAE, M. D. LXXIIX. MENSE SEPTEMBRI.

Octavo. Ptolemy, *Tetrabiblos*, Latin, ed. Gerolamo Cardano. Expanded reimpression of **Basel 1554a/Basel 1555**, retaining the dedication to John Hamilton dated in 1553. Commentary by Dasypodius is added.

References: USTC 604948. PAL 12.

Paris 1578

C. IVLII HYGINI, AVGVSTI LIBERTI, FABVLARVM LIBER, AD OMNIVM POETARVM LECTIONEM mirè necessarius, & nunc denuò excusus. EIVSDEM POETICON Astronomicon Libri quatuor. Quibus accesserunt similis argumenti, PALÆPHATI De fabulosis narrationibus Liber I. F. FVLGENTII Placiadis episcopi Carthaginensis Mythologiarum Libri III. EIVSDEM De vocum antiquarum interpretatione Liber I. PHORNTI De natura deorum, siue poeticarum fabularum allegoriis, speculatio. ALBRICI Philosophi De deorum imaginibus Liber. ARATI φαινόμενων fragmentum, Germanico Cæsare interprete. EIVSDEM Phænomena græcè, cum interpretatione Latina. PROCLI De sphæra libellus, Græcè & Latinè.

APOLLODORI Biblioth. siue de Deorum origine. LILII G. Gyraldi DE Musis Syntagma. INDEX rerum Sententiarum, & fabularum, in his omnibus scitu dignarum, copiosissimus.

Imprint: PARISIIS, Apud Gulielmum Iulianum, sub amicitiae signo, ad collegium Cameracense. M. D. LXXVIII.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Jacob Micyllus. Reimpression of **Basel 1535/Basel 1549/Basel 1570**, using for Proclus the Latin text of Linacre/Ceporin, and retaining the undated dedication to Otho Truchses.

A variant exists (USTC 138801, SPHAERA 10065) with imprint *PARISIIS, Apud Ioannem Parant Via Iacobæa. M. D. LXXVIII.*

References: USTC 170440. SPHAERA 10027.

Breslau 1579

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ, ΤΩΝ ΤΗΣ ΑΣΤΡΟΛΟΓΙΑΣ ἐπιμεμένων χάριν ἐπιμελῶς ἐντυπωθεῖσα. PROCLI SPHAERA, THOMA LINACRO BRITANNO INTERPRETE.

Imprint: VRATISLAVIAE. M D LXXIX.

Colophon: VRATISLAVIÆ. IN OFFICINA TYPOGRAPHICA IOHANNIS SCHARFFENBERGII. Anno Salutis H: M. D. LXXIX.

Quarto. ps.-Proclus, *On the sphere*, Greek and Latin. Text of Linacre/Ceporin. Includes the commendatory verse in Latin by Melanchthon from **Wittenberg 1549**.

References: SPHAERA 10060.

Strasbourg 1579

Oratio CVNRADI DASYPODII DE DISCIPLInis Mathematicis: Ad FRIDERICVM II. SERENISS. Regem Daniae &c. Eiusdem HIERONIS ALEXANDRINI NOMENclaturæ Vocabulorum Geometricorum translatio. Eiusdem. LEXICON MATHEMATICVM,

EX Diuersis collectum antiquis scriptis.

Imprint: ARGENT. Excudebat Nicolaus VVyriot. M D LXXIX.

Colophon: ARGENTORATI. Excudebat Nicolaus Vvriot, Anno. M. D. LXXIII.

Octavo. ps.-Hero, *Definitions*, Latin, ed. Conrad Dasypodius. Text taken from **Strasbourg 1570/Strasbourg 1571**. Dedication by Dasypodius to Frederic II of Denmark dated on 1 April 1579; address by Dasypodius to Nicolaus Kooss dated 2 April 1579.

References: USTC 679987.

Strasbourg 1580

CVNRADI DASYPODII Heron Mechanicus: Seu De Mechanicis artibus, atque disciplinis. Eiusdem Horologij astronomici, Argentorati in summo Templo erecti, descriptio.

Imprint: ARGENT. Excudebat Nicolaus VVyriot, 1580.

Quarto. Hero, *Mechanics*, Latin, ed. Conrad Dasypodius. The first printing of this text. Dedication by Dasypodius to Guilielmus Robertus dated at Strasbourg on 6 June 1580.

References: USTC 625793.

Lyon 1581

SPECVLVM ASTROLOGIÆ, VNIVERSAM MATHEMATICAM SCIENTIAM, IN CERTAS CLASSES DIGESTAM, COMPLECTENS. AVTORE FRANCISCO IVNCTINO FLORENTINO S.T.D. ac Eleemosynario ordinario Serenißimi Principis FRANCISCI VALESII, Christianiß. Francorum, ac Poloniae Regis fratris unici, Andegauensis Ducis, &c. Accesserunt etiam *Commentaria* absolutissima in duos posteriores QVADRIPARTITI PTOLEMÆI libros, innumeris observationibus referta, & certissimis aphorismis (quatenus ex siderum positione liceat Christiano more aliquid coniicere) ex probatissimorum

Astrologorum scriptis depromptis insignita. Quid in priori & posteriori Tomo contineatur, Elenchus post epistolam ad Lectorem subiunctus, indicabit. Omnia sub censura sanctæ Ecclesiæ Catholicæ Romanæ. TOMVS PRIOR.

Imprint: LVGDVNI, In Officina Q. Phil. Tinghi, Florentini: Apud Simphorianum Beraud. M. D. LXXXI.

Colophon: Excudebat Joannes Quadratus, Anno 1581 4. Idus Aprilis.

Folio. Ptolemy, *Tetrabiblos* (I–II), *Centiloquium* (sp.), both Greek and Latin, ed. Franciscus Junctinus. The Latin text of the *Tetrabiblos* is that of Camerarius; of the *Centiloquium* that of Pontano. Dedication by Junctinus to Marguard bishop of Speyer, dated at Lyon on 1 February 1581. Privilege dated 5 July 1581; imperial licence dated 18 April 1581.

References: PAL 114.

Basel 1582

CLARISSIMI VIRI C. IUL. HYGINI AUGUSTI LIBERTI FABULÆ, & POETICON ASTRONOMICON. PALÆPHATI De non credendis Fabulosis narrationibus opusculum, Philippo Phasiniano Bononiense interprete. F. FULGENTII MYTHOLOGICARUM LIBRI TRES. Ejusem vocum antiquarum interpretatio. PHORNUTI Speculatio de Deorum natura, Iodoco Velareo interprete. ALBRICI PHILOSOPHI De Deorum imaginibus libellus. ARATI SOLENSIS PHÆNOMENA, Germanico Cæsare interprete. PROCLI SPHAERA, Thoma Linacro Anglo interprete.

Imprint: BASILEAE, Ex Officina Heervag. per Eusebium Episcop. M. D. LXXXII.

Folio. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Jacob Micyllus. Reimpression of **Basel 1535/Basel 1549/Basel 1570/Paris 1578**, using for Proclus the Latin text of Linacre/Ceporin, and retaining the undated dedication to Otho Truchses.

References: USTC 622755. SPHAERA 10028.

Lyon 1583

SPECVLVM ASTROLOGIÆ, VNIVERSAM MATHEMATICAM SCIENTIAM, IN CERTAS CLASSES DIGESTAM, COMPLECTENS. AVTORE FRANCISCO IVNCTINO FLORENTINO S.T.D. ac Eleemosynario ordinario Serenissimi Principis FRANCISCI VALESII, Christianiſſ. Francorum, ac Poloniæ Regis fratris unici, Andegauensis Ducis, &c. Accesserunt etiam *Commentaria* absolutissima in duos posteriores QVADRIPARTITI PTOLEMÆI libros, innumeris obseruationibus referta, & certissimis aphorismis (quatenus ex siderum positione liceat Christiano more aliquid coniicere) ex probatissimorum Astrologorum scriptis depromptis insignita. Quid in priori & posteriori Tomo contineatur, Elenchus post epistolam ad Lectorem subiunctus, indicabit. Omnia sub censura sanctæ Ecclesiæ Catholicæ Romanæ. TOMVS PRIOR.

Imprint: LVGDVNI, In Officina Q. Phil. Tinghi, Florentini: Apud Simphorianum Beraud. M. D. LXXXIII.

Colophon: Excudebat Joannes Quadratus, Anno 1581 4. Idus Aprilis.

Folio. Ptolemy, *Tetrabiblos* (I–II), *Centiloquium* (sp.), both Greek and Latin, ed. Franciscus Junctinus. Reissue of **Lyon 1581**, retaining the dedication and licenses to print, with the texts of Camerarius and Pontano.

References: USTC 142056. SPHAERA 2190.PAL 64.

Paris 1583

HERONIS ALEXANDRINI SPIRITALIVM LIBER. A FEDERICO COMMANDINO VRBINATE, EX GRÆCO NVPER IN LATINVM CONVERSVS.

Imprint: PARISIIS, Apud Ægidium Gorbinum, sub insigni Spei, è regione collegij Cameraensis. M. D. LXXXIII.

Quarto. Hero, *Pneumatics*, Latin, ed. Federico Commandino. Reimpression of **Urbino 1575**, retaining the dedication by Valerio Spaccioli to Giulio della Rovere.

References: USTC 206776, 170693.

Cologne 1584

CL. PTOLEMAEI ALEXANDRINI, GEOGRAPHIAE LIBRI OCTO, recogniti iam et diligenter emendati cum tabulis geographicis ad mentem auctoris restitutis ac emendatis, per GERARDVM MERCATOREM, IllustriB. Ducis Cliuensis etc. Cosmographum.

Imprint: M. D. LXXXIV

Colophon: COLONIAE AGRIPPINAE TYPIS GODEFRIDI KEMPENSIS. ANNO VIRGINEI PARTVS, M. D. LXXXIII.

Folio. Ptolemy, *Geography*, Latin, ed. Arnold Mylius. Dedication by Mylius to Abraham Ortelius, dated at Cologne on 1 July 1583. The text is based on that of Pirckheimer (**Basel 1540/1542/1545/1552**).

The *Tabulae geographicae* by Gerard Mercator, which had been previously published without accompanying text in 1578, are sometimes catalogued separately.

References: USTC 622682.

Leipzig 1584

PROCLI DE SPHÆRA Liber unus.

Imprint: LIPSIAE, Iohannes Beyer imprimebat, Anno Christi M. D. LXXXIII.

Octavo. ps.-Proclus, *On the sphere*, Latin. Text of Linacre/Ceporin.

References: USTC 686894. SPHAERA 10069.

Naples 1584

ILLVSTRIS VIRI ANTONII MARIAE GESVALDI NEAPOLITANI. EXERCITATIONES IN ALTERum Sereni Antissensis librum,

qui est de Sectione Coni. ADIECIMVS ALIAS QVASDAM EIVS-DEM Auctoris in diuersorum Scriptorum loca. Olim editas.

Imprint: NEAPOLI, Apud Horatium Saluianum, & Cæsarem Cæsaris. M. D. LXXXIII.

Colophon: NEAPOLI, Apud Horatium Saluianum, & Cæsarem Cæsaris M. D. LXXXIII.

Quarto. Serenus, *On the section of a cone*, Latin. Text taken from **Bologna 1566**, that is Commandino's translation. The text is printed in full, together with commentaries by Federico Commandino and Antonio Maria Gesualdo. Dedication by Giovanni Giacobbi Gesualdo to Alphonso Gesualdo.

References: USTC 832364.

Basel 1585

PROCLI DE SPHÆRA LIBER I. CLEOMEDIS DE MVNDO, siue circularis inspectionis meteororum Libri II. ARATI SOLENSIS PHAENOMENA, siue Apparentia. DIONYSII AFRI DESCRIPTIO Orbis habitabilis. Omnia Græcè & Latinè ita coniuncta, ut conferri ab utriusque linguæ studiosis possint. ADIECTIS Doctorum virorum annotationibus. unà cum IOAN. HONTERI CORONENSIS de Cosmographiæ rudimentis duplici editione, ligata scilicet & soluta.

Imprint: BASILEAE, PER SEBASTIANVM HENRICPETRI.

Colophon: BASILEAE PER HENRICVM PETRI, ANNO DOMINI M. D. LXXXV.

Octavo. ps.-Proclus, *On the sphere*; Cleomedes, *On the circular motions of the celestial bodies*; both Greek and Latin, ed. Marcus Hopper. Reimpression of **Basel 1561** (thus an expanded reimpression of **Basel 1547/Antwerp 1553**), retaining the dedication by Marcus Hopper to the sons of Heinrich Petri and the notes on Proclus by Schreckenfuchs.

References: USTC 686899. SPHAERA 10029.

Leiden 1585

L'ARITHMETIQUE DE SIMON STEVIN DE BRVGES: Contenant

les computations des nombres Arithmetiques ou vulgaires: Außi l'Algebre, avec les equations de cinc quantitez. Ensemble les quatre premiers liures d'Algebre de Diophante d'Alexandrie, maintenant premierement traduits en François. Encore vn liure particulier de la Pratique d'Arithmetique, contenant entre autres, Les Tables d'Interest, La Disme; Et vn traicté des Incommensurables grandeurs: Avec l'Explication du Dixiesme Liure d'Euclide.

Imprint: A LEYDE, De l'Imprimerie de Christophle Plantin. M. D. LXXXV.

Octavo. Diophantus, *Arithmetic* (I–IV), French, ed. Simon Stevin. Dedication by Stevin to Jan Cornets de Groot. First printing of any part of this text in a modern language. Privileges dated 5 August 1582 and 20 December 1584. The ‘explication’ of *Elements* X is not of a character to gain an entry in *EiP*.

References: USTC 30332.

Rome 1586

THEODOSII TRIPOLITAE SPHAERICORVM LIBRI III. A CHRISTOPHORO CLAVIO BAMBERgensis Societatis IESV PERSPICVIS DEMONSTRATIONIBVS, ac scholijs illustrati. Item Eiusdem CHRISTOPHORI CLAVII SINVS. LINEAE TANGENTES. ET SECANTES. TRIANGVLA RECTILINEA. ATQVE SPHAERICA.

Imprint: ROMAE, Ex Typographia Dominici Basæ. M. D. LXXXVI.

Colophon: ROMAE, Ex Typographia Dominici Basæ. MDLXXXVI.

Quarto. Theodosius, *Spherics*, Latin, ed. Christoph Clavius. Dedication by Clavius to Giacomo Boncompagni dated at Rome on 6 December 1585.

References: USTC 858965.

Rome 1587

AVTOLYCI. DE. SPHERA QVÆ. MOVETVR. LIBER. & THEODOSII. TRIPOLITAE. DE. HABITATIONIBVS. LIBER. Omnia

Scholijs Antiquis, & figuris Illustrata: De Vaticana Bibliotheca deprompta: & nunc primum in lucem edita. IOSEPHO. AVRIA. NEAPOL. INTERPRETE. His additæ sunt Maurolyci annotationes.

Imprint: ROMAE, Apud Hæredes Antonij Bladij, Impressores Camerales. M D LXXXVII.

Quarto. Autolycus, *On the moving sphere*; Theodosius, *On habitations*; both Latin, ed. Joseph Auria. New translations from the Greek; the annotations of Maurolico are presumably taken from **Messina 1558**. The claim ‘nunc primum in lucem edita’ can only refer to the ancient scholia, since all three main texts had previously appeared in print. Dedication by Auria to Alexandrus Centurionus, dated at Rome on 15 May 1587.

Frequently bound with copies of **Rome 1588**, which occasionally leads to a reported date of 1588.

References: USTC 811538.

Pesaro 1588

PAPPI ALEXANDRINI MATHEMATICAE COLLECTIONES À FEDERICO COMMANDINO VRBINATE IN LATINVM CONVERSÆ, ET COMMENTARIIS ILLUSTRATAE.

Imprint: PISAVRI, Apud Hieronymum Concordiam, M. D. LXXXVIII.

Colophon: PISAVRI. Apud Hieronymum Concordiam; M D LXXXVIII.

Folio. Pappus, *Collection* (III–VIII), Latin, ed. Federico Commandino. The first printing of this text. Dedication by Valerio Spaccioli to Francisco Maria II of Urbino. Published posthumously and with certain gaps in translation or commentary; on this and Commandino’s manuscript sources see Treweek 1957, 228–30 and Boyer 1971, 1976.

References: USTC 846711.

Rome 1588

AVTOLYCI. DE. VARIO ORTV. ET. OCCASV ASTRORVM.

INERRANTIVM. LIBRI. DVO. NVNC. PRIMVM. DE. GRÆCA
lingua in Latinam conuersi: Scholiis antiquis & figuris illustrati, de Vat-
icana Bibliotheca deprompti. IOSEPHO. AVRIA. NEAPOLITANO
INTERPRETE.

Imprint: ROMÆ: Ex Typographia Vincentij Accolti, in Burgo.
M. D. LXXXVIII.

Colophon: ROMÆ, Typis Vincentij Accolti, in Burgo. M. D.
LXXXVIII.

Quarto. Autolycus, *On risings and settings of the stars*, Latin, ed. Joseph
Auria. The first complete printing of this text in Latin, though it had appeared
in an enunciations-only Greek and Latin version in **Strasbourg 1572**. Dedi-
cation by Auria to Alessandro Glorieri dated at Rome on 1 August 1588.

The catalogue of the Danish Royal Library reports a copy with imprint
date 1580, but I believe this is likely to be a mistake for the present imprint.
Carmody (1960a) reports an edition of 1591 (from a report in the *Bibliographie
générale de l'astronomie*) but I suspect a mistake for Auria's **Rome 1591** edition
of Theodosius.

References: USTC 811539.

Venice 1588

PAPPI ALEXANDRINI MATHEMATICAE Collectiones, À FED-
ERICO COMMANDINO VRBINATE IN LATINVM CON-
VERSÆ, & Commentarijs Illustratæ.

Imprint: VENETIIS, Apud Franciscum de Franciscis Senensem.
M. D. LXXXVIII.

Colophon: PISAVRI. Apud Hieronymum Concordiam; M D
LXXXVIII.

Quarto. Pappus, *Collection* (III–VIII), Latin, ed. Federico Commandino.
Reissue of **Pesaro 1588**, retaining the (undated) dedication to Francisco Maria
II of Urbino. Cf. **Venice 1589**, another reissue.

References: USTC 846710.

Ferrara 1589

GLI ARTIFITIOSI ET CVRIOSI MOTI SPIRITALI DI HER-
RONE. TRADOTTI DA M. GIO. BATTISTA ALEOTTI
D'ARGENTA. Aggiountoui dal medesimo Quattro Theoremi non
men belli, & curiosi de' gli altrj. Et il modo con che si fa artificiosa-
mente' salir un Canale d'Acqua viuua, ò morta, in cima d'ogn'alta Torre.
Al Sereniß.mo Signore D. ALFONSO II. Duca di Ferrara suo Signore.

Imprint: IN FERRARA, MDLXXXIX. Per Vittorio Baldini, Stam-
pator Ducale.

Colophon: IN FERRARA, Appresso Vittorio Baldini, Stampator
Ducale. M. D. LXXXIX.

Quarto. Hero, *Pneumatics*, Italian, ed. Giovan Battista Aleotti. The first
printing of this text in a modern language. Translated from the Latin of Com-
mandino (Urbino 1575/Paris 1583): see (Boas 1949, 41–42). Dedication by
Aleotti to Alfonso II d'Este of Ferrara.

References: USTC 835653.

Heidelberg 1589

ASTRONOMICA VETERVM SCRIPTA ISAGOGICA GRÆCA
& Latina. Auct. Græci, PROCLI SPHÆRA. ARATI SOLENSIS
Phaenomena, & Prognostica. LEONTIVS MECHANICVS de con-
structione Arateæ Sphæræ. His tribus adiuncta est interpretatio Latina,
in qua verbum de verbo expressum est. Latini. ARATEA Phaenomena
cum poetica interpretatione M. T. CICERONIS, FESTI RVFI Auieni
GERMANICI CÆS. cum commentariis incerti auct. VETERVM
Poetarum Fragmenta Astronomica. C. IVLI HYGINI Poeticon As-
tronomicon. OPUS non Astronomiæ solum, sed & Poeseos studiosis
apprime utile.

Imprint: IN OFFICINA SANCTANDREANA, M D LXXXIX

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin. The Latin text is that
of Linacre/Ceporin.

Todd (2004b) places this imprint in Heidelberg; it is often placed in

Geneva. A copy in Basel is reported with imprint date 1600, but this seems likely to be an error.

References: USTC 451203. SPHAERA 10058.

Venice 1589

PAPPI ALEXANDRINI MATHEMATICAE Collectiones. A FEDERICO COMMANDINO VRBINATÆ In Latinum Conuersæ, & Commentarijs Illustratæ.

Imprint: VENETIIS, Apud Franciscum de Franciscis Senensem. M. D. LXXXIX.

Colophon: PISAVRI. Apud Hieronymum Concordiam; M D LXXXVIII.

Quarto. Pappus, *Collection* (III–VIII), Latin, ed. Federico Commandino. Reissue of **Pesaro 1588** (cf. **Venice 1588**), retaining the dedication to Francisco Maria II of Urbino.

References: USTC 846712.

Venice 1589a

DI HERONE Alessandrino DE GLI AVTOMATI, ouero MACHINE SE MOVENTI, Libri due, Tradotti dal Greco da BERNARDINO BALDI Abbate di Guastalla.

Imprint: IN VENETIA, Appresso Girolamo Porro. 1589

Quarto. Hero, *Automata*, Italian, ed. Bernardino Baldi. The first printing of this text in any language. Dedication by Baldi to Giacomo Contarini dated at Venice on 1 February 1589.

References: USTC 835654.

Altdorf 1590

ΓΕΜΙΝΟΥ ΕΙΣΑΓΩΓΗ ΕΙΣ ΤΑ ΦΑΙΝΟΜΕΝΑ. GEMINI PROBATISSIMI PHILOSOPHI, AC MATHEMATICI ELEMENTA

Astronomiæ Græcè, & Latinè INTERPRETE EDONE HILDERICO D. CONTINET hic libellus, quem Γεμῖνος nobis reliquit, multa præclara, & cognitu digna, quæ alibi in scriptis huius generis non facile reperiās.

Imprint: ALTORPHII, Typis Christophori Lochneri, & Iohannis Hofmanni. ANNO M D X C.

Colophon: ALTORPHII, Typis Christophori Lochneri, & Iohannis Hofmanni, Typographorum Academicorum. ANNO M D XC.

Octavo. Geminus, *Introduction to the Phenomena*, Greek and Latin, ed. Edo Hildericus (Hilderich). The first printing of this text; the Greek text was based ultimately on a manuscript copied by Henry Savile: see Todd 2003b. Dedication by Hildericus to Christian, Elector of Saxony, dated at Altdorf on 1 May 1590.

References: USTC 659091.

Rome 1591

THEODOSII TRIPOLITAE DE. DIEBVS ET. NOCTIBVS LIBRI. DVO DE. VATICANA. BIBLIOTHECA deprompti. Scholijs antiquis: & figuris illustrati: & nunc primùm de Græca lingua in Latinam conuersi. A. IOSEPHO. AVRIA. NEAPOLITANO

Imprint: ROMÆ. Apud Ioannem Martinellum. MDXCI.

Colophon: ROMAE. Apud Iacobum Ruffinellum. M. D. XCI.

Quarto. Theodosius, *On days and nights*, Latin, ed. Joseph Auria. The first complete Latin printing of this text; as with Auria's Latin edition of *On risings and settings* (**Rome 1588**), *On days and nights* had already appeared in an enunciations-only Greek and Latin version (**Strasbourg 1572**). Dedication by Auria to Serafino Oliverio (Razzali), dated at Rome on 13 April 1591.

References: USTC 858966.

Wittenberg 1591

PROCLI LYCII DE SPHÆRA Hoc est DE CIRCVLIS COELESTIBVS LIBER VNVS græcolatinus IN QVO RADICES, PRINCIPIA

ET FVNDamenta totius artis sideralis, breuiter compræhenduntur
Imprint: VVITEBERGAE, Excudebat Zacharias Lehman, M. D. XCI.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin. The Latin text is that of Linacre/Ceporin.

References: USTC 686902. SPHAERA 10063.

Tournon 1592

MICHAELIS PSELLI ARITHMETICA, MVSICA, ET GEOMETRIA: Item PROCLI SPHAERA, Elia Vineto Santone interprete. Accessit in hac vltima editione singulorum librorum in capita, necnon capitum in sectiones percommoda distributio: In vsum studiosæ Iuuentutis Academiæ Turnoniæ Societ. IESV.

Imprint: TURNONI, APVD CLAVDIVM MICHAELEM, Typographum Vniuersitatis. M. D. XCII.

Duodecimo. ps.-Proclus, *On the sphere*, Latin, ed. Claude Michel. The Latin text of Proclus is that of Vinet (**Bordeaux 1553/Paris 1557c**), and includes Vinet's address to the reader dated at Bordeaux on 13 January 1553. Dedication by Claude Michel to Justus Ludovicus dated 'Ex nostro Typographio' on 29 September 1591. For the identification of 'Turnoni' see <https://data.cerl.org/thesaurus/cnl00014719>.

References: USTC 110640, 110639. SPHAERA 10051.

Urbino 1592

SPIRITALI DI HERONE ALESSANDRINO Ridotti in lingua Volgare DA ALESSANDRO GIORGI DA VRBINO.

Imprint: IN VRBINO Appresso Bartholomeo, e Simone Ragusij fratelli. 1592.

Quarto. Hero, *Pneumatics*, Italian, ed. Alessandro Giorgi. A new translation (*cf.* **Ferrara 1589**), and like its predecessor probably translated from the Latin

of Commandino (**Urbino 1575/Paris 1583**), and with illustrations closely imitated from there (Roby 2023, 248). Dedication by Giorgi to Francesca Feltria della Rovere, dated at Urbino on 3 August 1592.

Boas (1947) states that this was reprinted in 1595, but I cannot confirm this.

References: USTC 835655.

Leiden 1593

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. SPHÆRA PROCLI, ELIA VINETO SANTONE INTERPRETE.

Imprint: LVGDVNI BATAVORVM, EX OFFICINA PLANTINIANA, Apud Franciscum Raphelengium. M. D. XCIII.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin. The Latin text is that of Vinet (**Bordeaux 1553/Paris 1557c/Poitiers 1567/Tournon 1592**).

References: USTC 429480. SPHAERA 10030.

Venice 1596

GEOGRAPHIAE VNIVERSAE TVM VETERIS TVM NOVAE ABSOLVTISSIMVM OPVS DVOBVS VOLVMINIBVS DISTINCTVM, In quorum priore habentur CL. PTOLEMAEI PELVSIENSIS Geographicæ enarrationis Libri octo: Quorum primus, qui præcepta ipsius facultatis omnia complectitur, commentarijs vberimis illustratus est à IO. ANTONIO MAGINO PATAVINO. In secundo volumine insunt CL. PTOLEMÆI antiquæ orbis tabulæ XXVII. ad priscas historias intelligendas summè necessariae. Et tabulae XXXVII. recentiores, quibus vniuersi orbis pictura, ac facies, singularumque eius partium, regionum, ac prouinciarum ob oculos patet nostro sæculo congruens. Vnà cum ipsarum tabularum copiosissimis expositionibus, quibus singulæ orbis partes, prouinciæ, regiones, imperia, regna, ducatus, & alia dominia, pro ut

nostro tempore se habent, exacte describuntur. Auctore eodem IO. ANT. MAGINO PATAVINO Mathematicarum in Almo Bononiensi Gymnasio publico professore.

Imprint: VENETHIS, M. D. XCVI. Apud Hæredes Simonis Galignani de Karera.

Octavo. Ptolemy, *Geography*, Latin, ed. Giovanni Antonio Magini. Dedication by Magini to Vincenzo Gonzaga of Mantua dated at Bologna on 1 April 1596. Text possibly based on that of Mylius (**Cologne 1584**).

References: USTC 851498.

Cologne 1597

GEOGRAPHIAE VNIVERSAE TVM VETERIS, TVM NOVAE ABSOLVTISSIMVM opus, duobus voluminibus distinctum, In quorum priore habentur CL. PTOLEMAEI PELVSIENSIS Geographicæ enarrationis Libri octo: Quorum primus, qui præcepta ipsius facultatis omnia complectitur, commentarijs vberimis illustratus est à IO. ANTONIO MAGINO PATAVINO. In secundo volumine insunt CL. PTOLEMAEI, antiquæ orbis tabulæ XXVII. ad priscas historias intelligendas summè necessariae. Et tabulæ XXXVII. recentiores, quibus vniuersi orbis pictura, ac facies, singularumque eius partium, regionum, ac prouinciarum ob oculos patet nostro sæculo congruens. Vnà cum ipsarum tabularum copiosissimis expositionibus, quibus singulas Orbis partes, prouinciæ, regiones, imperia, regna, ducatus, & alia dominia, prout nostro tempore se habent, exactè describuntur. Auctore eodem IO. ANT. MAGINO PATAVINO, Mathematicarum in Almo Bononiensi Gymnasio publico professore.

Imprint: Anno 1597. IN CELEBERRIMA AGRIPPINENSIVM COLONIA EXCVDEBAT PETRVS KESCHEDT.

Quarto. Ptolemy, *Geography*, Latin, ed. Giovanni Antonio Magini. Revised reimpression of **Venice 1596**, with dedication by Keschedt to Johann Wilhelm (*i.e.* of Saxe-Weimar) dated at Cologne on 13 September 1597 (the dedication states that the Venice impression had sold out, but it is not clear that the

reimpression was authorised, and this is sometimes characterised as a pirated edition).

The second volume has title: *GEOGRAPHIAE CL. PTOLEMÆI PARS SECVNDA, CONTINENS PRAETER ANTIQVAS IPSIVS PTOL. RECEN-TIOres etiam Tabulas, quæ Vniuersæ terræ faciẽ nostro æuo cognitam exhibent. A HIERONYMO PORRO PAT. INCISAS. Vnà cum ipsarum Tabularum uberrimis expositionibus, quibus singulæ Orbis Prouinciæ, Regiones, Imperia, Regna, Ducatus, & alia Dominia describuntur. AVTHORE IO. ANTONIO MAGIno Patauino, Almi Bonon. Gymnasij Publico Mathematico.* and imprint: *IN CELEBERRIMA AGRIPPINENSIVM COLONIA EXCVDEBAT PETRVS KESCHEDT.* In some copies it has the colophon: *ARNHEMII, Apud Ioannem Iansonium Bibliopolam. Anno M. D. XCVII.*

USTC 851497 reports from the *Censimento nazionale delle edizioni italiane del XVI secolo* a unique copy of the second volume with imprint date 1594, but I think this is likely to be a mistake.

References: USTC 415396 (set), 659323 (vol. 1), 659326 (vol. 2), 659327 (vol. 2).

Wittenberg 1597

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. SPHÆRA PROCLI, Hoc est, DE CIRCVLIS COELESTIBVS LIBER GRAEcolatinus, in quo principia & fundamenta totius artis sideralis breuiter & perspicuè continentur.

Imprint: VVITEBERGAE Excudebat Zacharias Lehman. ANNO M. D. XCVII.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin. The Latin text is that of Vinet (**Bordeaux 1553/Paris 1557c/Poitiers 1567/Tournon 1592/Leiden 1593**). Despite the identity of their titles, this is not a reimpression of **Wittenberg 1591**.

References: SPHAERA 10031.

Würzburg 1597

IN ARCHIMEDIS CIRCVLI DIMENSIONEM Expositio & Anal-

ysis. APOLOGIA PRO ARCHIMEDE, ad Clariss. virum Iosephum Scaligerum. EXERCITATIONES CYCLICAE contra Iosephum Scaligerum, Orontium Finæum, & Raymarum Vrsum, in decem Dialogos distinctæ. AVTHORE ADRIANO ROMANO EQVITE Aurato Matheseon Excellentißimo Professore in Academia VVurceburgensi.

Imprint: WVRCBVRGI. ANNO MD XCVII.

Archimedes, *Measurement of a circle*, Greek and Latin, ed. Adriaan Roomen. Contains the text as well as a Latin commentary. Dedication by Roomen to the Emperor Rudolph II, undated. Most catalogues place the printing in Geneva; some name the printer as Georg Fleischmann or the heirs of Eustache Vignon.

References: USTC 451599.

Venice 1598

GEOGRAFIA CIOÈ DESCRITTIONE VNIVERSALE DELLA TERRA Partita in due volumi, Nel Primo de' quali si contengono gli Otto Libri della Geografia DI CL. TOLOMEO, Nuouamente con singolare studio rincontrati, & corretti DALL'ECCELL.MO SIG. GIO. ANT. MAGINI PADOVANO Publico Matematico nello Studio di Bologna, Con vna larghißima & copiosißima spositione del medesimo sopra'l Primo de' detti Libri d'intorno a'precetti & alle regole della Geografia. Nel Secondo vi sono poste XXVII. Tauole Antiche di TOLOMEO, & XXXVII. altre Moderne, tutte reuiste & in alcuni luoghi accresciute & illustrate da ricchissimi Commentarij di detto Sig. MAGINI, Lighali non pur di minuto rappresentano siti, qualità, diuisioni, monti, fiumi, porti, città, castella di tutte le parti & Prouincie del Mondo, co'loro nomi Antichi & Moderni; ma pienissimamente informano della natura, de'costumi, delle signorie, delle ragioni de'gouerni, & interamente dello stato di tutte le nationi dell'uniuerso, cosi ne'tempi paßati, come ne'presenti. Opera vtilissima & specialmente necessaria allo studio dell'Historie, Dal Latino nell'Italiano Tradotta DAL R. D. LEONARDO CERNOTI VINITIANO CANONICO DI S. SALVADORE. Con due Indici

copiosissimi.

Imprint: IN VENETIA, M. D. XCVIII. Appresso Gio. Battista, & Giorgio Galignani Fratelli.

Folio. Ptolemy, *Geography*, Italian, ed. Leonardo Cernoti from the Latin of Giovanni Antonio Magini. A translation of **Venice 1596** (it does not seem to incorporate the revisions of **Cologne 1597**). Dedication by the Galignanis to Marco Cornaro.

Variouly catalogued as 1597, 1598, or 1597–8; occasionally catalogued in error as 1697–8. The second volume has title *La Seconda Parte DELLA GEOGRAFIA DI CL. TOLOMEO, La quale, oltra l'Antiche Tauole d'esso Tolomeo, contiene le Moderne ancora, che mostrano la faccia di tutta la Terra, infino à questa nostra età conosciua, INTAGLIATE DA GIROLAMO PORRO. Insieme con le loro copiosissime espositioni fatte DALL'ECCELLENTISS. SIG. GIO. ANT. MAGINI PADOVANO LETTORE DELLE MATEMATICHE NEL PVBLICO STVDIO DI BOLOGNA. Tradotte DAL R. D. LEONARDO CERNOTI VINITIANO CANONICO DI S. SALVADORE.* and imprint *IN VENETIA, M. D. XCVII. Appresso Gio. Battista, & Giorgio Galignani Fratelli.*

References: USTC 851499.

Venice 1598a

GEOGRAFIA DI CLAVDIO TOLOMEO ALESSANDRINO, Tradotta di Greco nell'Idioma Volgare Italiano DA GIROLAMO RVSCELLI, Et hora nuouamente ampliata DA GIOSEFFO ROSACCIO, Con varie Annotationi, & Espositioni, & Tauole di Rame, che nelli stampati altre volte non erano, hauendo etianadio poste à i lor luoghi le Tauole vecchie, che prima confusamente giaceuano, Et vna Geografia vniuersale del medesimo, separata da quella di Tolomeo; Nella quale secondo il parere de' più Moderni Geografi, fedelmente sono poste le Prouincie, Regni, Città, Castelli, Monti, Fiumi, Laghi, Porti, Golfi, Isole, Penisole, Popoli, Leggi, Riti, & Costumi di ciascuna Città. Et vna breue Descrittione di tutta la Terra, distinta in quattro Libri, Nel Primo de' quali si tratta dell'Europa; Nel Secondo dell'Africa,

Nel Terzo dell'Asia, Nel Quarto dell'America. Con due Indici Copiosissimi di tutto quello, che di notabile si contiene nell'Opera.

Imprint: IN VENETIA, M D XCVIII. Appresso gli Heredi di Melchior Sessa.

Quarto. Ptolemy, *Geography*, Italian, ed. Giuseppe Rosaccio. Based on the text of Ruscelli: **Venice 1561/Venice 1564a** and cf. **Venice 1574**. Dedication by Rosaccio to Marco Pii. Sometimes catalogued as 1598–99.

References: USTC 851500.

Venice 1599

GEOGRAFIA DI CLAVDIO TOLOMEO ALESSANDRINO, Tradotta di Greco nell'Idioma Volgare Italiano DA GIROLAMO RVSCELLI, Et hora nuouamente ampliata DA GIOSEFFO ROSACCIO, Con varie Annotationi, & Espositioni, & Tauole di Rame, che nelli stampati altre volte non erano, hauendo etandio poste à i lor luoghi le Tauole vecchie, che prima confusamente giaceuano, Et vna Geografia vniuersale del medesimo, separata da quella di Tolomeo; Nella quale secondo il parere de' più Moderni Geografi, fedelmente sono poste le Prouincie, Regni, Città, Castelli, Monti, Fiumi, Laghi, Porti, Golfi, Isole, Penisole, Popoli, Leggi, Riti, & Costumi di ciascuna Città. Et vna breue Descrittione di tutta la Terra, distinta in quattro Libri, Nel Primo de' quali si tratta dell'Europa; Nel Secondo dell'Africa, Nel Terzo dell'Asia, Nel Quarto dell'America. Con due Indici Copiosissimi di tutto quello, che di notabile si contiene nell'Opera.

Imprint: IN VENETIA, M D XCIX. Appresso gli Heredi di Melchior Sessa.

Quarto. Ptolemy, *Geography*, Italian, ed. Giuseppe Rosaccio. Reissue of **Venice 1598a**, retaining the dedication by Rosaccio to Marco Pii. Sometimes catalogued as 1598–99.

References: USTC 851501.

Leipzig 1600

PROCLI SPHÆRA.

Imprint: LIPSLE Ex Officina Typographica Abrahami Lambergi.
ANNO M. DC.

Octavo. ps.-Proclus, *On the sphere*, Latin. The text is that of Linacre/Ceporin.

References: USTC 686897. SPHAERA 10032.

Leipzig 1601

ARCHIMEDIS CIRCVLI DIMENSIO, Cum Programmate
CHRISTOPHORI MEVRERI D. Mathemat. Professoris.

Imprint: LIPSLE, Ex typographēio Abrahami Lambergi. Anno
M. DCI.

Archimedes, *Measurement of a circle*, Latin, ed. Christoph Meurer.

References: None identified.

Venice 1601

DI HERONE Alessandrino DE GLI AVTOMATI, ouero MACHINE
SE MOVENTI, Libri due, Tradotti dal Greco da BERNARDINO
BALDI Abbate di Guastalla. Nouamente ristampato con ogni diligenza
riccoretto.

Imprint: IN VENETIA, Appresso Gio Battista Bertoni librario al
Pellegrino. 1601.

Colophon: IN VENETIA, Appresso Gio. Battista Bertoni, Libraro al
Pellegrino. M. D C I.

Quarto. Hero, *Automata*, Italian, ed. Bernardino Baldi. Reimpression of
Venice 1589a, retaining Baldi's dedication to Giacomo Contarini dated 1
February 1589.

The title-page words 'Nouamente . . . riccoretto' have the appearance of an

addition and may be absent from some copies: the report in USTC 4037427 lacks them.

References: USTC 4037428, 4037427.

Pesaro 1602

FEDERICI COMMANDINI VRBINATIS MATHEMATICI CELEBERRIMI EXACTISSIMA Commentaria IN LIBROS OCTO MATHEMATICARVM COLLECTIONVM PAPPI ALEXANDRINI E GRAECO IN LATINVM A SE accuratissimè conuersos. Ad Serenissimum Franciscum Mariam II. Urbini Ducem.

Imprint: Pisauri, Apud Hieronymum Concordiam 1602.

Colophon: PISAVRI. Apud Hieronymum Concordiam; M D L. XXXVIII.

Folio. Pappus, *Collection* (III–VIII), Latin, ed. Federico Commandino. Reissue of **Pesaro 1588** (cf. **Venice 1588**, **Venice 1589**). Some copies have the colophon date modified by hand.

References: USTC 4030993.

Leiden 1603

ΓΕΜΙΝΟΥ ΕΙΣΑΓΩΓΗ ΕΙΣ ΤΑ ΦΑΙΝÓΜΕΝΑ, GEMINI Elementa Astronomiæ Græcè, & Latinè. INTERPRETE EDONE HILDERICO D.

Imprint: LVGDVNI B. M D CIII.

Colophon: ALTORPHII, Typis Christophori Lochneri, & Iohannis Hofmanni, Typographorum Academicorum. ANNO M D XC.

Octavo. Geminus, *Introduction to the Phenomena*, Greek and Latin, ed. Edo Hildericus. Reimpression of **Altdorf 1590**, retaining the dedication by Hildericus to Christian of Saxony, dated at Altdorf on 1 May 1590. Some catalogues name Franciscus Raphelengius (Frans van Ravelingen) as the bookseller.

References: USTC 1549273.

Amsterdam and Frankfurt 1605

CLAUDII PTOLEMÆI ALEXANDRINI GEOGRAPHIAE LIBRI OCTO GRÆCO-LATINI Latinè primùm recogniti & emendati, cum tabulis geographicis ad mentem auctoris restitutis per Gerardum Mercatorem: Iam verò ad Græca & Latina exemplaria à Petro Montano iterum recogniti, et pluribus locis castigati. Adjecta insuper ab eodem nomina recentia et æquipollentia ex varijs auctoribus veteribus et recentiorib. magna cura collecta, in gratiam et usum Geographiæ studiosorum.

Imprint: Jodocus Hondius excudit sibi et Cornelio Nicolai, in cujus officina prostant, Francofurti. 1605

Folio. Ptolemy, *Geography*, Greek and Latin, ed. Petrus Montanus. The Latin text is based on that of Mylius (**Cologne 1584**); the maps are those of Mercator. Montanus' epistle to the reader is dated 28 February 1605. A variant exists in which the final words of the imprint read 'Francofurti, Amsterodammi. 1605'.

References: USTC 1019310, 1012673.

Bordeaux 1605

CLEOMEDIS METEORA GRÆCE ET LATINE. A ROBERTO BALFOREO EX MS. CODICE Bibliothecæ Illustrissimi CARDINALIS IOYOSII multis mendis repurgata, Latinè versa, & perpetuo commentario illustrata. AD Clariss. & ornatiss. virum GVILIELMVM DAFISIVM equitem, principem Præsidentem Senatus Burdig. & sacri consistorij Consiliarium.

Imprint: BVRDIGALÆ, Apud SIMONEM MILANGIVM Typographum Regium. 1605.

Quarto. Cleomedes, *On the circular motions of the celestial bodies*, Greek

and Latin, ed. Robert Balfour. Dedication by Balfour to Guilielmo Dafisio (Guillaume Daffis), undated. The Latin text is a new translation. On Balfour's criticisms of Valla's translation, and on his plans for a reimpression of this edition, see Todd 1992.

Balfour's "Commentarivs" has a separate title page with title *ROBERTI BALFOREI COMMENTARIVS IN LIBROS DVOS CLEOMEDIS DE CONTEMPLATIONE orbium cælestium*. and imprint *BVRDIGALÆ, Apud S. MILLANGIVM Typographum Regium. M. DC. V*. It has a dedication to Iacobo Montano. Edition and commentary are sometimes catalogued separately.

References: USTC 6800124.

Naples 1605

CLAVDII PTOLEMAEI MAGNÆ CONSTRVCTIONIS LIBER PRIMVS. Cum THEONIS ALEXANDRINI COMMENTARIIS. IO: BAPTISTA PORTA NEAP. Interprete.

Imprint: NEAPOLI Typis Fœlicis Stelliolæ, ad Portam Regalem. M D C V.

Colophon: NEAPOLI, Ex Officina Felicis Stelliolæ. Ad Portam Regalem. M D C V.

Quarto. Ptolemy, *Almagest* (I); Theon, *Commentary on the Almagest of Ptolemy* (I); both Latin, ed. Giambattista della Porta. The first printing of Theon's commentary, in a new translation by della Porta, and into which the Ptolemaic text is incorporated.

References: USTC 4035917. PAL 99.

Venice 1606

OPERE DEL FAMOSISSIMO NICOLO TARTAGLIA CIOÈ Quesiti, Noua Scientia, Trauagliata Inuentione, Ragionamenti sopra Archimede. NELLE QVALI COPIOSAMENTE SI SPIEGA. L'Arte di Guerraggiare, così in Mare, come in Terra, co'l modo appresso

di diffendere, offendere, & espugnare ogni gran Fortezza. E l'arte ancora del perfetto Bombardiero, *con* tutte le cose à quella necessarie. Si dimostra di più vn modo nuouo e mirabile di fabricare, & vsare, diuerse forti di Squadre, & di Bussole. E varie maniere artificiose, di cauare ogni gran Vasello affondato, & fabricar due Vasi co i quali si poſſa descendere nel fondo del Mare, & à suo piacere ritornar di sopra. Et il Trattato de Insidentibus aquæ, cioè delle materie che stanno, & che non stanno sopra l'acqua, nel quale oltre la prattica vi si scorgono in questo proposito molti discorsi speculatiui. Dedicate all'Illustrissimo Signor LVIGI GIVSTINIANO SIGNIOR ALL'ARSENALE.

Imprint: IN VENETIA, Al Segno del Leone. M. DC. VI.

Octavo. Archimedes, *On floating bodies* (I), Italian, ed. Niccolò Tartaglia. The Archimedean text is reprinted from **Venice 1551/Venice 1562b**.

References: USTC 4036647.

Cologne 1608

GEOGRAPHIAE VNIVERSAE TVM VETERIS, TVM NOVAE ABSOLVTISSIMVM opus, duobus voluminibus distinctum, In quorum priore habentur CL. PTOLEMAEI PELVSIENSIS. Geographicæ enarrationis Libri octo: Quorum primus, qui præcepta ipsius facultatis omnia complectitur, commentarijs vberimis illustratus est à IO. ANTONIO MAGINO PATAVINO. In secundo volumine insunt CL. PTOLEMAEI, antiquæ orbis tabulæ XXVII. ad priscas historias intelligendas summè necessariae. Et tabulæ XXXVII. recentiores, quibus vniuersi orbis pictura, ac facies, singularumque eius partium, regionum, ac prouinciarum ob oculos patet nostro sæculo congruens. Vnà cum ipsarum tabularum copiosissimis expositionibus, quibus singulas Orbis partes, prouinciæ, regiones, imperia, regna, ducatus, & alia dominia, prout nostro tempore se habent, exactè describuntur. Auctore eodem IOAN. ANT. MAGINO PATAVINO, Mathematicarum in Almo Bononiensi Gymnasio publico professore.

Imprint: ANNO 1608. IN CELEBERRIMA AGRIPPENSIVM

COLONIA EXCVDEBAT PETRVS KESCHEDT.

Quarto. Ptolemy, *Geography*, Latin, ed. Giovanni Antonio Magini. Reissue of **Cologne 1597** with cancel title page and lacking – in at least some copies – the final signature of volume 2 and therefore the colophon. Retains Keschedt's dedication to Johann Wilhelm (*i.e.* of Saxe-Weimar) dated at Cologne on 13 September 1597. The title page date 'ANNO 1608' is slightly differently positioned in different copies; the final words of the imprint are often lost to trimming.

The second volume retains its separate title page, with unmodified wording.

References: USTC 2508670, 2040890, 2053916.

Geneva 1608

C. IVLII HYGINI, AVGVSTI LIBERTI, FABVLARVM LIBER, AD OMNIVM POETARVM lectionem mirè necessarius, & nunc denuò excusus. EIVSDEM POETICON Astronomicon Libri quatuor. Quibus accesserunt similis argumenti; PALAEPHATI De fabulosis narrationibus Liber I. F. FVLGENTII Placiadis Episcopi Carthaginensis Mythologiarum Libri III. EIVSDEM De vocum antiquarum interpretatione Liber I. PHORNVTI De natura deorum, siue poeticarum fabularum allegorijs, speculatio. ALBRICI Philosophi De deorum imaginibus Liber. ARATI φαινόμενων fragmentum, Germanico Cæsare interprete. EIVSDEM Phænomena Græcè cum interpretatione Latina. PROCLI De sphæra libellus, Græcè & Latinè. APOLLODORI Biblioth. siue de Deorum origine. LILII G. Giraldi DE Musis Syntagma. NVNC PRIMVM VERO Ex Macrobio, Ficino in Plotium, Natali de Comitibus, & alijs EXCERPTA lectu digniſſima, & Operis argumento conuenientiſſima, subiuncta sunt. INDEX rerum, sententiarum, & fabularum, in his omnibus scitu dignarum, copiosissimus.

Imprint: GENEVÆ, APVD STEPHANVM GAMONETVM M. DCVIII.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin. Reissue, with cancel title page and lacking the first signature containing the epistle to the reader and dedication, of **Lyon 1608**.

References: USTC 6703088. SPHAERA 10056.

Lyon 1608

C. IVLII HYGINI, AVGVSTI LIBERTI, FABVLARVM LIBER, AD OMNIVM POETARVM lectionem mirè necessarius, & nunc denuò excusus. EIVSDEM POETICON Astronomicon Libri quatuor. Quibus accesserunt similis argumenti; PALAEPHATI De fabulosis narrationibus Liber I. F. FVLGENTII Placiadis Episcopi Carthaginensis Mythologiarum Libri III. EIVSDEM De vocum antiquarum interpretatione Liber I. PHORNVTI De natura deorum, siue poeticarum fabularum allegorijs, speculatio. ALBRICI Philosophi De deorum imaginibus Liber. ARATI φαινομένων fragmentum, Germanico Cæsare interprete. EIVSDEM Phænomena Græcè cum interpretatione Latina. PROCLI De sphæra libellus, Græcè & Latinè. APOLLODORI Biblioth. siue de Deorum origine. LILII G. Giraldi DE Musis Syntagma. NVNC PRIMVM VERO Ex Macrobio, Ficino in Plotinum, Natali de Comitibus, & alijs EXCERPTA lectu dignissima, & Operis argumento conuenientissima, subiuncta sunt. INDEX rerum, sententiarum, & fabularum, in his omnibus scitu dignarum, copiosissimus.

Imprint: LVGDVNI, APVD IOANNEM DEGABIANO. M. DCVIII.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin. Reimpression of **Basel 1535/Basel 1549/Basel 1570**, using for Proclus the Latin text of Linacre/Ceporin, and retaining the undated dedication to Otho Truchses.

References: USTC 6901036. SPHAERA 10052.

Augsburg 1609

GEORGII HENISCHII B. MEDICI ET MATHEMATICI AVG.

Commentarius IN SPHAERAM PROCLI DIADOCHI: Cui adiunctus est Computus Ecclesiasticus, cum Calendario triplici, & prognostico tempestatum ex ortu & occasu stellarum.

Imprint: AVGVSTAE VINDELICORVM Typis Davidis Franci. Anno M. DCIX.

Quarto. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Georg Henisch. The text of Proclus is reprinted from **Augsburg 1575**, with the addition of a commentary; Henisch also used the **Altdorf 1590** edition of Geminus (Todd 2003b). Dedication by Henisch to Mark Welser and Johann Jakob Rembold dated at Augsburg on 19 July 1608.

References: USTC 2053943. SPHAERA 10033.

Hamburg 1610

ΗΛΙΟΔΩΡΟΥ ΛΑΡΙΣΣΑΙΟΥ ΚΑΙΦΑΛΛΑΙΑ ΤΩΝ ΟΠΤΙΚΩΝ.
HELIODORI LARISSÆI CAPITA OPTICORVM. Ad Hetrusci codicis fidem Græce & Latine edita; & recensita. Ex bibliotheca FR. LINDENBROGI.

Imprint: In librario HERINGIANO. AN. M. D. CX.

Quarto. Heliodorus, *Optics*, Greek and Latin. Text taken from **Florence 1573**: see Todd 2003a. For the publisher and location see <https://data.cerl.org/thesaurus/cnp01876131>.

A record in the Universitäts- und Landesbibliothek Darmstadt reports a copy dated 1690, but this seems highly likely to be a mistake. Similarly *WorldCat* reports a 1590 issue with no known copies, which I believe to be a mistake. Conceivably a variant exists with a misprinted imprint date (XC or CXC for CX)

References: USTC 2041503.

Prague 1610

CLAVDII PTOLEMÆI, DE PRÆDICTIONIBVS ASTROnomicis, cui titulum fecerunt Quadripartitum, Libri IIII nunc primùm ex ve-

tustissimo codice & interprete in lucem editi. Eiusdem Fructus librorum suorum, siue Centum dicta.

Imprint: PRAGÆ, Typis CASPARI KARGESII. Anno M. DC. X. Sumptibus Iacobi Brechtani.

Duodecimo. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.); both Latin, ed. Jacob van Brecht. The *Tetrabiblos* is in the text of Melanchthon (**Basel 1553**); the *Centiloquium* in that of Pontano. Dedication by van Brecht to Lamoralus de Taxis, dated at Prague on 1 July 1610.

References: USTC 257491. PAL 72.

Frankfurt 1611

CLAVDII PTOLOMÆI, DE PRÆDICTIONIBVS ASTRONOMICIS, cui titulum fecerunt, Quadripartitum, LIBRI IV. Eiusdem Fructus librorum suorum, siue Centum dicta. Editio posterior.

Imprint: FRANCOFVRTI, Typis Ioannis Bringeri, Sumptibus Iacobi Fischeri. M. DC. XI.

Duodecimo. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.); both Latin, ed. Jacob van Brecht. Reimpression (possibly unauthorised) of **Prague 1610**, containing translations by Melanchthon and Pontano, now with dedication by Jakob Fischer to Gotthard Arthus, dated at Frankfurt on 1 May 1611.

References: USTC 2094066. PAL 82.

Rostock 1611

ΠΡΟΚΛΟΥ ΔΙΑΔΟΧΟΥ ΣΦΑΙΡΑ. PROCLI DIADOCHI SPHÆRA. IOANNE LAVRENBURGIO interprete.

Imprint: ROSTOCHII Litteris Reusnerianis, Anno 1611.

Octavo. ps.-Proclus, *On the sphere*, Greek and Latin, ed. Johann Lauremberg. A new Latin translation.

References: USTC 2015915. SPHAERA 10034.

Mainz 1612

CHRISTOPHORI CLAVII BAMBERGENSIS E Societate IESV
OPERA MATHEMATICA V. Tomis distributa Ab auctore nunc
denuo correcta, et plurimis locis aucta. Ad Reverendiss. et Illustriss.
Principem ac Dominum, D. JOANNEM GODEFRIDVM EPIS-
COpum Bambergensem &c.

Imprint: MOGVNTIAE Sumptibus Antonij Hierat Excudebat Rein-
hardus Eltz Anno. M. DCXII.

Five volumes, folio. Theodosius, *Spherics*, Latin, ed. Christoph Clavius.
Text from **Rome 1586**. The text is printed in full as well as Clavius' commen-
tary. Also contains Clavius' edition/commentary of Euclid's *Elements* (I–XVI
(sic.)). Dedication by Clavius to Johann Gottfried von Aschhausen, bishop of
Bamberg, dated at Rome on 1 May 1611.

The Euclid and Theodosius edition/commentaries appear in volume 1,
which has an additional title page following the dedication and index, with
title *CHRISTOPHORI CLAVII BAMBERGENSIS E SOCIETATE IESV. OP-
ERVM MATHEMATICORVM TOMVS PRIMVS. Complectens Commentaria
In Euclidis Elementa Geometrica, In Sphaerica Theodosij, Sinuum, Tangentium &
Secantium rationem & Canones: Tractationem triangulorum, tum rectilineorum,
tum sphaericorum.* and imprint *MOGVNTIAE, Sumptibus ANTONII HIERAT,
excudebat REINHARDVS ELTZ. ANNO M. DC. XI.*

Furthermore, the Theodosius edition/commentary has a separate title
page, with title *THEODOSII TRIPOLITAE SPHAERICORVM LIBRI III. à
CHRISTOPHORO CLAVIO BAMBERGENSI SOCIETATIS IESV PER-
SPICVIS DEMONSTRATIONIBVS, & scholiis illustrati. Et ab eodem secunda
hac editione correcti, & aucti.* and imprint *MOGVNTIAE, Sumptibus ANTONII
HIERAT, excudebat REINHARDVS ELTZ. ANNO M. DC. XI.*

Both volume 1 and the Theodosius edition sometimes appear separately
catalogued: respectively USTC 2042102 and 2106990, for instance.

References: USTC 2536684. EiP Mainz 1611/12.

Paris 1615

ΑΡΧΙΜΗΔΟΥΣ ΠΑΝΤΑ ΣΩΖΟΜΕΝΑ. ARCHIMEDIS OPERA

QVAE EXTANT. NOVIS DEMONSTRATIONIBVS COMMENTARIISQVE ILLUSTRATA. Per DAVIDEM RIVALTVM A FLVRANTIA Cœnomanum, è Regia Turma sacri Cubiculi, sanctoribusque regni Consiliis & à literarum pietatisque studiis Christianissimi Gallorum & Nauarræ Regis LVDOVICI XIII. semper Augusti. Operum Catalogus sequenti pagina habetur.

Imprint: PARISIIS, Apud CLAVDIVM MORELLVM, via Iacobæa, ad insigne Fontis. M. DC. XV.

Folio. Archimedes, *On the sphere and cylinder; Measurement of a circle; On the equilibrium of planes; On conoids and spheroids; On spirals; Quadrature of the parabola; The sand reckoner; On floating bodies.* All Greek (enunciations) and Latin, ed. David Rivault. New demonstrations and commentary are provided. The first printing of *On floating bodies* in Greek. Dedication by Rivault to Louis XIII of France.

References: USTC 6016007.

Paris 1615a

LES TROIS LIVRES DES ELEMENS SPHERIQUES de Theodose Tripolitain. Traduicts de Latin en François, Par D. HENRION, Mathématicien.

Imprint: A PARIS, Chez ABRAHAM PACARD, rue saint Jacques, à l'Estoille d'or. M. DC. XV.

Quarto. Theodosius, *Spherics*, French, ed. Denis Henrion. The first printing of this text in a modern language. Dedication by Henrion to Charles Descoubleau. Privilege dated 26 September 1614.

References: USTC 6013620.

Augsburg 1616

HERONIS CTESIBII BELOPOEECA HOC EST TELIFACTIVA
BERNARDINO BALDO VRBINATE GVASTALLÆ ABBATE

ILLVSTRATORE ET INTERPRETE ITEM HERONIS VITA
EODEM AVCTORE.

Imprint: Augustæ Vindellicorum, Typis Davidis Franci. M. DCXVI.

Quarto. Hero, *War machines*, Greek and Latin, ed. Bernardino Baldi. The first printing of this text in Greek. Dedication by Baldi to Lelio Ruini, undated.

References: USTC 2082183.

Leiden 1616

ARISTOXENVS. NICOMACHVS. ALYPIVS. Auctores Musices antiquiſimi, hactenus non editi. IOANNES MEVRſIVS Nunc primus vulgavit, & NOTAS addidit.

Imprint: LUGDUNI BATAVORUM, Ex Officinâ LVDOVICI ELZEVIRI. Typis GODEFRIDI BASSON, Anno M. DC. XVI.

Quarto. Aristoxenus, *Elements of harmonics*; Nicomachus, *Manual of harmonics*; Alypius, *Introduction to music*. All Greek only (despite the ‘vulgavit’ of the title page), ed. Joannes Meursius (Jan van Meurs). The first printing of the Alypius and Nicomachus texts, and the first printing of the Aristoxenus text in Greek. Dedication by Meurs to Adriaan van Mathenes, Cornelius vander Myle and Nicolaus Seystius, dated at Leiden on 1 June 1616.

References: USTC 1020638.

Arnhem 1617

IOANNIS ANTONII MAGINI Patavini, Matheseos in Almo Bononiensi Gymnasio Profeſſoris, GEOGRAPHIAE, TUM VETERIS, TUM NOVAE, VOLUMINA DUO. In quorum priore, Cl: Ptol: Pelusiensis Geographicae Enarrationis libri octo: quorum primus commentarijs uberrimis illustratur. In posteriore, Eiusdem Ptol: antiqui Orbis tabulae 27. quibus accedunt 37. recentiores, universum Orbem, et singularum ejus Regionum Faciem repræſentantes. Additæ sunt copioſiſſimæ ipsarum tabularum explicationes, quibus singulae

Orbis partes, Imperia, Regna, Ducatus, aliaque Dominia, prout nostro tempore se habent, exactissimè describuntur.

Imprint: Arnheimii Excudebat IOANNES IANSSONIUS. Anno. 1617.

Octavo. Ptolemy, *Geography*, Latin, ed. Gaspar Ens. Revised reimpression of **Cologne 1597/Cologne 1608**, now with dedication by Ens to George William of Brandenburg, undated. Volume 2 has a separate title page with title *GEOGRAPHIAE CL. PTOLEMÆI PARS SECUNDA, CONTINENS PRÆTER ANTIQVAS IPsius Ptol. recentiores etiam Tabulas, quæ Vniuersæ terræ faciem nostro ævo cognitam exhibent. A HIERONYMO PORRO PAT. INCISAS. Vnà cum ipsarum Tabularum uberrimis expositionibus, quibus singulæ Orbis Provinciæ, Regiones, Imperia, Regna, Ducatus, & alia Dominia describuntur. AVTHORAE. IO. ANTONIO MAGIno Patavino, Almi Bonon. Gymnasij Publico Mathematico. and imprint ARNHEMI, Apud Ioannem Ianszonium, Anno 1617.*

References: USTC 1009618.

Leiden 1618

THEATRVM GEOGRAPHIÆ VETERIS, Duobus Tomis distinctum, Edente PETRO BERTIO BEVERO. Christianiſſimi Galliarum Regis LVDOVICI XIII. COSMOGRAPHO.

Colophon: LVGDVNI BATAVORVM, Excudebat typis suis ISAACVS ELZEVIRIVS, Sumptibus IVDOCI HONDII. Anno M D C XVIII.

Folio. Ptolemy, *Geography*, Greek and Latin, ed. Petrus Bertius. A revision of **Frankfurt 1605**; the Latin text is thus based on that of **Cologne 1584**. Dedication by Bertius to Louis XIII of France.

Volume 1, which contains the Ptolemaic text, has a separate title page with title *THEATRUM GEOGRAPHIÆ VETERIS Tomus prior in quo CL. PTOL. ALEXANDRINI Geographiæ libri VIII Græcè et Latinè Græca ad codices Palatinos collata aucta et emendata sunt Latina infinitis locis correctæ opera P. BERTII Christianissimi Galliarum Regis Cosmographi.*

Sometimes catalogued with date 1618–19; Stevens (1973) places this edition in 1618.

References: USTC 1508110.

London 1620

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. ΠΤΟΛΕΜΑΙΟΥ ΠΕΡΙ ΥΠΟΘΕΣΕΩΝ τῶν
ΠΛΑΝΩΜΕΝΩΝ. PROCLI SPHAERA. PTOLEMÆI de Hypothe-
sibus Planetarum liber singularis, nunc primum in lucem editus. Cui
accescit ejusdem Ptolemæi CANON REGNORVM. Vtrumque librum
ex codicum M.S. collatione summa diligentia restituit, Latinè reddidit,
& Figuris illustravit IOH. BAINBRIDGE Med. Doctor, & Astronomiæ
in celeberrima Oxoniensi Academia Professor.

Imprint: LONDINI, Excudebat GVILIELMVS IONES. 1620.

Quarto. ps.-Proclus, *On the sphere*; Ptolemy, *Planetary hypotheses*. Both
Greek and Latin, ed. John Bainbridge. The first printing of the *Planetary hy-*
potheses. Both Latin texts are new translations. Dedication by Bainbridge to
William, Earl of Pembroke.

References: USTC 3008938. ESTC 101387. SPHAERA 10035.PAL 17.

Padua 1621

GEOGRAFIA CIOÈ DESCRITTIONE VNIVERSALE DELLA
TERRA Partita in due volumi, Nel primo de'quali si contengono gli
Otto Libri della Geografia DI CL. TOLOMEO, Nuouamente con
singolare studio rincontrati, & corretti DALL'ECCELL.MO SIG.
GIO. ANTONIO MAGINI PADOVANO Publico Matematico nello
studio di Bologna. Con una larghissima & copiosissima spositione
del medesimo sopra'l Primo de' detti Libri d'intorno a'precetti & alle
regole della Geografia. Nel Secondo vi sono poste XXVII. Tauole
Antiche di TOLOMEO, & XXXVII. altre Moderne, tutte reuiste, &
in alcuni luoghi accresciute, & illustrate da ricchissimi Commentarij
di detto Sig. MAGINI, Liguali non pur di minuto rappresentano
siti, qualità, diuisioni, monti, fiumi, porti, città, castella di tutte le

parti & Prouincie del Mondo, co'loro nomi Antichi & Moderni; ma pienissimamente informano della natura, de'costumi, delle signorie, delle ragioni de'gouerni, & interamente dello stato di tutte le nationi dell'vniuerso, così ne'tempi passati, come ne'presenti. Opera vtilissima & specialmente necessaria allo studio dell'Historie, Dal Latino nell'Italiano Tradotta DAL R. D. LEONARDO CERNOTI VINITIANO CANONICO DI S. SALVADORE. Con due Indici copiosissimi. NVOVAMENTE CORRETTO, ET ACCRESCIVTO.

Imprint: IN PADOVA, M. DC. XXI. Appresso Paolo, & Francesco Galignani, Fratelli.

Folio. Ptolemy, *Geography*, Italian, ed. Leonardo Cernoti. Reimpression of **Venice 1598**, with a new dedication by the Galignanis to Marco Cornaro, dated at Padua on 16 February 1621, in addition to the original dedication dated 2 December 1597. Volume 2 has a separate title page, with imprint date 1620.

References: USTC 4007986.

Paris 1621

DIOPHANTI ALEXANDRINI ARITHMETICORVM LIBRI SEX, ET DE NVMERIS MVLTANGVLIS LIBER VNVS. Nunc primùm Græcè & Latinè editi, atque absolutiBimis Commentariis illustrati. AVCTORE CLAVDIO GASPARE BACHETO MEZIRIACO SEBVSIANO, V.C.

Imprint: LVTETIAE PARISORVM, Sumptibus HIERONYMI DROVART, via Iacobæa, sub Scuto Solari. M. DC. XXI.

Folio. Diophantus, *Arithmetic*, *On polygonal numbers*; both Greek and Latin, ed. Claude Gaspare Bachet. The first printing of the *Polygonal numbers*, and first Greek printing of the *Arithmetic*. Dedication by Bachet to Antoine Fabre dated at Paris on 1 September 1620.

References: USTC 6032815.

Frankfurt 1622

CLAVDII PTOLOMAEI DE PRÆDICTIONIBVS ASTRONOMI-
CIS, cui titulum fecerunt, Quadripartitum, LIBRI IV. Eiusdem Fruc-
tus librorum suorum, siue Centum dicta. Editio posterior.

Imprint: FRANCOFVRTI, Typis Ioannis Bringeri, Sumptibus Iacobi
Fischeri. M. DC. XXII.

Duodecimo. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.); both Latin, ed. Ja-
cob van Brecht. Reimpression of **Prague 1610/Frankfurt 1611**, with texts by
Melanchthon and Pontano; the dedication by Jakob Fischer to Gotthard Arthus
is now dated at Frankfurt on 1 May 1622.

References: USTC 2110454. PAL 28.

Paris 1623

BACCHII SENIORIS IATROMATHEMATICI ΕΙΣΑΓΩΓΗ.
SIVE INTRODVCTIO Methodica ad Musicam, per Dialogismum.
GRÆCA NVNC PRIMVM è Regis Christianiss. Bibliotheca eruta,
FED. MORELLVS Professorum Reg. Dec. recensuit, castigauit,
Latinè vertit, & Notis illustrauit.

Imprint: LVTETIÆ, Apud FED. MORELLVM, Architypographum
Regium. M. DC. XXIII.

Quarto. Bacchius, *Introduction to the art of music*, Greek and Latin, ed.
Fédéric Morel. The first printing of this text. Dedication by Morel to Pierre
Brûlart.

References: USTC 6024917.

Paris 1623a

F. MARINI MERSENNI ORDINIS MINIMORVM S. FRANCISCI
DE PAVLA. QVÆSTIONES CELEBERRIMÆ IN GENESIM, CVM
ACCVRATA TEXTVS EXPLICATIONE. IN HOC VOLVMINE

ATHEI, ET DEISTÆ IMPVGNANTVR, & expugnantur, & Vulgata editio ab hæreticorum calumnijs vindicatur. Græcorum, & Hebræorum Musica instauratur. FRANCISCI GEORGII VENETI CABALISTICA DOGMATA FVSÈ REFELLVNTVR, QVÆ PASSIM IN ILLIVS PROBLEMATIBVS HABENTVR. OPVS THEOLOGIS, PHILOSOPHIS, MEDICIS, Iurisconsultis, Mathematicis, Musicis verò, & Catoptricis præsertim utile. Cum Indice quadruplici, videlicet locorum Scripturæ Sacræ, quæ in toto libro explicantur, Concionatorio, Quæstionum, & rerum, quæ passim agitantur.

Imprint: LVTETIÆ PARISIORVM, Sumptibus SEBASTIANI CRAMOISY, viâ Iacobæâ sub Ciconijs. M. DC. XXIII.

Folio. Bacchius, *Introduction to the art of music*, Latin, ed. Marin Mersenne. (The edition of Bacchius appears at columns 1887–91.) Dedication to Jean-François de Gondi, undated. The facultas is dated 3 September 1620, the approbatio 14 February 1622 and the royal privilège 17 February 1622; printing was completed on 1 February 1623.

References: USTC 6032034, 6020544.

Paris 1624

LES LIVRES D'ARCHIMEDES, DE LA SPHERE ET du cylindre, & des choses également pesantes. Auec deux liures de PROCLVS, du mouuement.

Imprint: A PARIS, Chez IVLIAN IACQVIN, ruë de la Harpe, au Sauuage. M. DC. XXIII.

Archimedes, *On the sphere and cylinder*; *On the equilibrium of planes*, French. The first complete printing of either of these texts in a modern language (cf. **Paris 1565a**, with book I of *Equilibrium* in French, and **Venice 1560** with book I of *On the sphere and cylinder* in Italian.).

References: None identified.

Leiden 1625

L'ARITHMETIQUE DE SIMON STEVIN DE BRVGES, Reueuë,

corrigee & augmentee de plusieurs traictez et annotations par ALBERT GIRARD Samielois Mathematicien.

Imprint: A LEIDE, de l’Imprimerie des ELZEVIERS. M DC XXV.

Octavo. Diophantus, *Arithmetic*, French, ed. (I–IV) Simon Stevin, (V–VI) Albert Girard. The first complete printing of this text in French; books I–IV by Stevin are a revised version of the text of **Leiden 1585**. Girard consulted Bachet’s version (**Paris 1621**) for his completion (Meskens 2010, 153). Dedication by Girard to Maurice, Prince of Orange.

A *Diophanti Alexandrini Rerum arithmeticarum libri sex* of 1625 is reported in *WorldCat*, probably identical with this edition.

The title-page word ‘annotations’ has the appearance of a clumsy modification from ‘annotation’, but I have not seen copies with the word in its putative earlier state.

References: USTC 1011749.

Paris 1626

ELEMENTORVM EVCLIDIS LIBRI XVI. CVM ADDITIONIBVS MAVROLYCI ET CANDALLÆ. ET OPTICORVM LIBRI V.

Imprint: LVTETIÆ, Ex officina ROB. STEPHANI. M. DC. XXVI.

Octavo. Theodosius, *Spherics*, *On habitations*; Menelaus, *Spherics*; Autolycus, *On the moving sphere*. All enunciations-only, Latin, ed. Marin Mersenne. Based on the translations by Maurolico (**Messina 1558**). Dedication by Guillaume Baudry to Louis de Champagne.

Also contains Euclid, *Elements* I–XVIII (sic.), *Optics* and *Phenomena*, and Maurolico’s *Spherica*.

References: EiP Paris 1626.

Paris 1626a

ARCHIMEDIS OPERA; MECHANICORVM LIBRI: APOLLONII PERGÆI CONICORVM, Et Sereni de sectione Cylandri.

Imprint: LVTETLÆ, Ex officina ROB. STEPHANI. M. DC. XXVI.

Octavo. Archimedes, *On the sphere and cylinder; Measurement of a circle; On conoids and spheroids; Quadrature of the parabola; On spirals; On the equilibrium of planes; On floating bodies; The sand reckoner*. Enunciations only, Latin, ed. Marin Mersenne. Sometimes described as the first volume of a set (see **Paris 1626b, c**) but more often catalogued separately. USTC names Noël as the printer, but I have not seen evidence for this. Some catalogues describe this as a 12mo or 16mo, but it appears to be a small octavo.

This description supersedes that of *EiP*.

References: USTC 6027877. EiP Paris 1626a.

Paris 1626b

APOLLONII PERGÆI CONICORVM, ET SERENI DE SECTIONE Coni & Cylindri libri. Ad Dominum d'ARSY.

Imprint: LVTETLÆ, Ex Typographia NATALIS CAROLI, Via Amigdalina, sub signo Pulchri Rami. M. DC. XXVI.

Octavo. Apollonius, *Conics* (I–IV); Serenus, *On the section of a cylinder*. Latin, enunciations only, ed. Marin Mersenne. Dedication to D. Flaminus, unsigned and undated. Sometimes described as the third volume of a set (see **Paris 1626a, c**). Some catalogues describe this as a 12mo or 16mo.

References: USTC 6027876. EiP Paris 1626a.

Paris 1626c

SYNOPSIS MATHEMATICA. Ad Reuerendiss. Patrem SIMONEM BACHELIER, Ordinis Minimorum Generalem.

Imprint: LVTETLÆ, Ex officina ROB. STEPHANI. M. DC. XXVI.

Quarto. Theodosius, *Spherics*; Menelaus, *Spherics*; Theodosius, *On habitations*. All Latin, enunciations only, ed. Marin Mersenne. Text extracted from **Paris 1626**, that is the translations of Maurolico (**Messina 1558**).

Sometimes described as the fourth volume of a set (see **Paris 1626a, b**).

Dedication by Mersenne to Simon Bachelier, dated at Paris in 1626. Privilège signed on 1 and 20 April 1626. Also contains the *Phenomena* of Euclid.

References: USTC 6020980. EiP Paris 1626a.

Sedan 1629

ΠΡΟΚΛΟΥ ΣΦΑΙΡΑ. PROCLI SPHÆRA.

Imprint: SEDANI, Ex Typographia IOANNIS IANNONI Academiae Typographi. M. DC. XXIX.

Octavo. ps.-Proclus, *On the sphere*, Greek. This is one of the smallest mathematical books I have seen, measuring very roughly 8 by 5 cm. USTC describes it as a 32mo. In the British Library's copy it is bound with a pocket-sized Greek New Testament from the same printer.

References: USTC 6809266. SPHAERA 10059.

Paris 1630

VRANOLOGION SIVE SYSTEMA VARIORVM AVTHORVM, QVI DE SPHÆRA, AC SIDERIBVS, EORVMQVE MOTIBVS Græcè commentati sunt. Sunt autem horum libri. GEMINI[,] ACHILLIS Tatij Isagoge ad Arati Phænomena. HIPPARCHI libri tres, ad Aratum. PTOLEMÆI de apparentiis. THEODORI Gazæ de Mensibus. MAXIMI[,] ISAACI Argyri duplex[,] S. ANDREÆ Cretensis Computi. Omnia vel Græcè ac Latinè nunc primùm edita, vel antè non edita. Cura & studio DIONYSII PETAVII Aurelianensis è Societate IESV. Quod esse potest luculentissimum Auctarium Operis de Doctrina Temporum. Accesserunt Variarum Dissertationum libri octo, ad autores illos intelligendos imprimis viles, eodem autore.

Imprint: LVTETIAE PARISIORVM, Sumptibus SEBASTIANI CRAMOISY, viâ Iacobæâ, sub Ciconiis. M. DC. XXX.

Folio. Geminus, *Introduction to the Phenomena*; Hipparchus, *Commentary on the Phenomena of Eudoxus and Aratus*. Both Greek and Latin, ed. Dionysius

Petavius (Denis Pétau). The Latin text of Geminus is revised from that of Hildericus (**Altdorf 1590/Leiden 1603**; see Todd 2003b). Also contains two fragments from Ptolemy, ‘De apparentiis inerrantium’ and ‘inerrantium significationes’. Contains several other post-classical Greek works in addition to those named on the title page.

Dedication by Petavius to Armand Jean (du Plessis, *i.e.* Cardinal Richelieu), undated. The privilège is dated at Leiden on 8 May 1630. Epistle to the reader by Petrus Victorius.

References: USTC 6021495. PAL 107.

Antwerp 1634b

ÆGIDII BVCHERII ATREBATIS E SOCIETATE IESV DE DOCTRINA TEMPORVM COMMENTARIVS IN VICTORIVM AQVITANVM nunc primùm post M. C. LXXVII. annos in lucem editum, ALIOSQ. ANTIQVOS CANONVM PASCHALIVM SCRIPTORES, CHRONOLOGIÆ ECCLESIASTICÆ illustrandæ ac stabiliendæ vtilissimos.

Imprint: ANTVERPIÆ, EX OFFICINA PLANTINIANA BALTHASARIS MORETI. M. DC. XXXIV.

Colophon: ANTVERPIÆ EX OFFICINA PLANTINIANA BALTHASARIS MORETI. M. DC. XXXIII.

Quarto. Anatolius, *Treatise on the time of the Paschal celebration*, Latin, ed. Aegidius Bucher. The first printing of this text. Dedication by Bucher to Petrus Aloysius Carafa, dated on the feast of St Bonaventure (*i.e.* 14 July) 1633. Imperial and royal privileges dated 4 August 1626 and 24 March 1633; ecclesiastical facultas and approbatio dated 6 February and 12 January 1633.

Contains several other ancient writings on calendrics and the Paschal canon.

Sometimes catalogued with the title *Ægidii Bucherii Atrebatensis e Societate Iesu in Victorii Aquitani canonem Paschalem scriptum anno Christi vulgari CCCCLVII. & nunc primùm in lucem editum commentarius. : Quo veterum etiam tempore Christi Iudæorum, Hippolyti, Anatolii, Prosperi, & primorum Christianorum cycli Paschales*

exponuntur, verus passionis Christi dies & annus eruitur, chronologia & annales ecclesiastici stabiliuntur. I have not seen evidence for this.

References: USTC 1510797.

Leiden 1634

LES ŒUVRES Mathematiques DE SIMON STEVIN de Bruges. Ou sont inserées les MEMOIRES MATHEMATIQUES, Esquelles s'est exercé le Tres-haut & Tres-illustre Prince MAURICE de NASSAU, Prince d'Aurenge, Gouverneur des Provinces des Païs-bas unis, General par Mer & par Terre, &c. Le tout reveu, corrigé, & augmenté Par ALBERT GIRARD Samielois, Mathematicien.

Imprint: A LEYDE Chez Bonaventure & Abraham Elsevier, Imprimeurs ordinaires de l'Université, ANNO M DC XXXIV.

Folio. Diophantus, *Arithmetic*, French, ed. (I–IV) Simon Stevin, (V–VI) Albert Girard. Text reprinted from **Leiden 1625**. Dedication by the widow and children of Albert Girard to the Estates General of the United Provinces, and to the Prince of Orange, undated. The Diophantus is sometimes catalogued separately (e.g. USTC 1510817).

References: USTC 1510792, 1510816, 1028561.

Leiden 1635

ΠΡΟΚΛΟΥ ΤΟΥ ΔΙΑΔΟΧΟΥ ΠΑΡΑΦΡΑΣΙΣ ΕΙΣ ΤΗΝ ΤΟΥ ΠΤΟΛΕΜΑΙΟΥ Τετραβιβλον. PROCLI DIADOCHI PARAPHRASIS IN PTOLEMÆI LIBROS IV. De Siderum effectionibus, A LEONE ALLATIO è Græco in Latinum conversa.

Imprint: LVGD. BATAVORVM, Ex Officinâ Elzeviriana. M DC XXXV.

Octavo. ps.-Proclus, *Commentary on the Tetrabiblos of Ptolemy*, Greek and Latin, ed. Leone Allacci (Allatius). The first Latin printing of this text.

References: USTC 1027873. PAL 22.

Paris 1637

CVRSVS MATHEMATICI TOMVS QVINTVS AC VLTIMVS.
Continens Opticam, Catoptricam, Dioptricam, Perspectiuam, Sphæricorum Trigonometriam, Theoricas Planetarum, tam secundum stantis, quàm motæ terræ hypothesim, Gnomonicam, & Musicam. CINQVIESME ET DERNIER TOME DV COVRS MATHEMATIQUE. Contenant l'Optique, la Catoptrique, la Dioptrique, la Perspective, la Trigonometrie des Spheriques, la Theorie des Planetes, tant selon l'hypothese de la terre immobile, que mobile, la Gnomonique, & la Musique. Par PIERRE HERIGONE, Professeur és Mathematiques.

Imprint: A PARIS, M. DC. XXXVII. Chez l'Autheur, en l'Isle du Palais, à l'enseigne de l'Anguille, & Chez HENRY LE GRAS, au troiesme pilier de la grand' Salle du Palais, à L couronnée.

Octavo. Theodosius, *Spherics*, Latin and French, ed. Pierre Hérigone. Also contains the optical and musical works attributed to Euclid. Demonstrations are new, in Hérigone's symbolic style. Dedication to François de Bassompierre, undated. A concluding note states that the printing of the volume was concluded on 14 August 1637.

This is a supplementary (fifth) volume to Hérigone's *Cursus mathematicus* (see *EiP* Paris 1634), which itself contained 'restitutions' of works by Apollonius (see Appendix 3). It retains from there a privilège dated 29 December 1633.

References: USTC 6004102. EiP Paris 1637.

Helmstedt 1638

PROCLI DIODOCHI SPHÆRA.

Imprint: HELMAESTADI, Apud IEREMIAM RIXNERN. M D CXXXIIX.

Duodecimo. ps.-Proclus, *On the sphere*, Latin.
References: USTC 2101004. SPHAERA 10070.

Paris 1640

L'VRANIE DE MESSIRE NICOLAS BOVRDIN, CHEVALLIER,
SEIGNEVR DE VILLENNES: Ou la traduction DES QVATRE
LIVRES des Iugemens des Astres DE CLAVDE PTOLOMEE, Prince
des Sciences Celestes.

Imprint: A PARIS, Chez CARDIN BESONGNE, au Palais, en la
Gallerie des Prisonniers, aux Roses vermeilles. M. DC. XL.

Duodecimo. Ptolemy, *Tetrabiblos*, French, ed. Nicolas de Bourdin. The
first printing of this text in a modern language. Dedication by Bourdin to
Charles Brulart de Leon, undated.

References: USTC 6028506.

Ulm 1641

ASTROLOGIA APHORISTICA PTOLOMAEI, HERMETIS,
LVDOVICI DE RIGIIS, ALMANSORIS, HIERONYMI CARDANI,
ET AVTORIS INNOMINATI.

Imprint: VLMAE, MDCXLI. Apud Ludouicum Lanouü.

Duodecimo. ps.-Ptolemy, *Centiloquium*, Latin. The Ptolemaic text is that
of Pontano. The epistle to the reader is unsigned and undated.

References: USTC 2516040, 2516040. PAL 63.

Paris 1644

VNIVERSÆ GEOMETRIÆ, MIXTÆQVE MATHEMATICÆ
SYNOPSIS, ET BINI REFRACTIONVM DEMONSTRATARVM

TRACTATVS. Studio & Operâ F. M. MERSENNI M.

Imprint: PARISIIS, Apud ANTONIVM BERTIER, viâ Iacobæâ, sub signo Fortunæ. M. DC. XLIV.

Quarto. Archimedes, *On the sphere and cylinder; Measurement of a circle; On conoids and spheroids; Quadrature of the parabola; On spirals; On the equilibrium of planes; On floating bodies; The sand reckoner*; Theodosius, *Spherics; On habitations*; Menelaus, *Spherics*; Autolycus, *On the moving sphere*; Apollonius, *Conics* (I–IV); Serenus, *On the section of a cylinder*; Pappus, *Collection* ('abbreviati'). All enunciations only, Latin, ed. Marin Mersenne. Texts reprinted from **Paris 1626a**, **Paris 1626b** and **Paris 1626c**, with the exception of the Pappus which appears to be a new abridgement, based presumably on the text of Commandino (**Pesaro 1588**). Also contains the *Elements*, *Phenomena* and *Data* of Euclid. Dedication by Mersenne to Ludovico Valesius (perhaps Louis-Emmanuel de Valois), undated.

Frequently described as vol. 2 of *F. Marini Mersenni Minimi Cogitata physico mathematica. In quibus tam naturæ quam artis effectus admirandi certissimis demonstrationibus explicantur* (Paris, 1644). See also **Paris 1647** which was sometimes sold and is sometimes catalogued as a third volume of the same set. USTC records 6030242 and 6041172 describe the set.

The works by Theodosius, Autolycus and Pappus sometimes appear separately catalogued.

References: USTC 6040743. EiP Paris 1644c.

Paris 1644a

ΘΕΩΝΟΣ ΣΜΥΡΝΑΙΟΥ ΠΛΑΤΩΝΙΚΟΥ, Τῶν κατὰ μαθηματικὴν χρῆσιν εἰς τὴν τοῦ ΠΛΑΤΩΝΟΣ ἀνάγνωσιν. THEONIS SMYRNÆI PLATONICI, Eorum, quæ in Mathematicis ad PLATONIS lectionem vtilia sunt, Expositio. E BIBLIOTHECA THVANA. Opus nunc primum editum, Latina versione, ac Notis illustratum ab ISMAELE BVLLIALDO Iuliodunensi.

Imprint: LVTETIÆ PARISIORVM, Apud LVDOVICVM DE HEVQVEVILLE, viâ Iacobæa, sub Signo Pacis. M. DC. XLIV

Quarto. Theon, *On mathematics useful for the understanding of Plato*, Greek and Latin, ed. Ismaël Boulliau (Bullialdus). The first printing of this text. Dedication by Boulliau to Jacques-Auguste de Thou, dated at Paris on 13 June 1643. Privilège dated at Paris on 10 August 1643.

Occasionally catalogued with date 1641, apparently in error.

References: USTC 6035288, 6041513.

Paris 1644b

CVRSVS MATHEMATICVS, NOVA, BREVI, ET CLARA
METHODO DEMONSTRATVS. Per NOTAS reales & vniuer-
sales, citra vsum cuiuscunque idiomatis, intellectu faciles. COVRS
MATHEMATIQUE, DEMONSTRÉ D'VNE NOUVELLE, BRIEVE,
ET CLAIRE METHODE, Par NOTES reelles & uniuerelles, qui
peuent estre entendues facilement sans l'vsage d'aucune langue. Par
PIERRE HERIGONE, Mathematicien.

Imprint: A PARIS, Chez SIMEON PIGET, ruë Saint Iacques, à
l'enseigne de la Fontaine. M. DC. XLIV.

Six volumes, octavo. Theodosius, *Spherics*, Latin and French, ed. Pierre Hérigone. Reissue of Hérigone's 1634 *Cursus* (see **EiP Paris 1634**), retaining its dedication to François de Bassompierre dated at the start of 1634, and including a reissue of the supplementary volume 5 (see **Paris 1637**), which contains the texts of Theodosius. Also included is volume 6, which is new in this version of the *Cursus*.

References: USTC 6037000. EiP Paris 1644b.

Perugia 1646

CLAVDII PTOLEMÆI DE PRÆDICTIONIBVS ASTRONOMI-
CIS, Cui Titulum fecerunt, QVADRIPARTITVM, Libri Quatuor.
Eiusdem Fructus Librorum suorum, Siue CENTVM DICTA. Poste-
rior Editio.

Imprint: PERUSIÆ, Ex Typographia Hæredum Petri Thomasij, MDCXLVI.

Duodecimo. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.); both Latin, ed. Jacob van Brecht. Reimpression of **Prague 1610/Frankfurt 1611/Frankfurt 1622**, with texts by Melanchthon and Pontano; now with a dedication to Tancredi Borbonio by the heirs of Petrus Thomasius, undated.

References: USTC 4021122. PAL 29.

Bologna 1647

GLI ARTIFICIOSI, E CVRIOSI MOTI SPIRITALI DI HERONE. Tradotti da M. Gio: Battista Aleotti D'ARGENTA. Aggiuntoui dal medesimo Quattro Theoremi non men belli, & curiosi de gli altri. Et il modo con che si fà artificiosamente salire un Canale d'Acqua viua, ò morta, in cima d'ogn'alta Torre.

Imprint: IN BOLOGNA, M DC XL VII. Per Carlo Zenero.

Quarto. Hero, *Pneumatics*, Italian, ed. Giovan Battista Aleotti. Reimpression of **Ferrara 1589**, now with dedication by Carlo Zenero to Scipion Gonzaga dated at Bologna on 22 July 1647.

Boas (1947) states that this translation was printed again at Paris in 1693, but I cannot confirm this and suspect a mistake for the Greek–Latin text in the *Veterum mathematicorum opera* (**Paris 1693**).

References: USTC 4049334, 4020276.

Paris 1651

LE CENTILOGVE DE PTOLOMEE, OV LA SECONDE PARTIE DE L'VRANIE DE MESSIRE NICOLAS DE BOVRDIN, Cheualier, Marquis de Villennes, Baron de Chappelaines, d'Anglure, Seigneur de Viliers en Crouye, Viliers sur Seine, &c. Par vne exposition fort ample, commode à tous Astronomes, Philosophes, Astrologues, Medecins, Arboristes, Iardiniers, Nautonniers, Cronologistes, & Cosmographes.

Imprint: A PARIS, Chez CARDIN BESONGNE, au Palais.
M. DC. LI.

Quarto. ps.-Ptolemy, *Centiloquium*, French, ed. Nicolas de Bourdin. The first printing of this text in a modern language; a companion to **Paris 1640**. Bears a privilège dated 25 January 1639, to which is added a notice that printing was concluded on 9 February 1651.

References: USTC 6117124.

Amsterdam 1652

ANTIQVÆ MVSICÆ AVCTORES SEPTEM. GRÆCE ET LATINE. MARCVS MEIBOMIVS Restituit ac Notis explicavit. VOLVMEN I

Imprint: AMSTELODAMI, Apud Ludovicum Elzevirium, M DC LII.

Two volumes, quarto. Aristoxenus, *Elements of harmonics*; Nicomachus, *Manual of harmonics*; Alypius, *Introduction to music*; Gaudentius, *Harmonic introduction*; Bacchius, *Introduction to the art of music*; Aristides Quintilian, *On music*. All Greek and Latin, ed. Marcus Meibom. The first printing of the Aristides and Gaudentius texts, and the first printing of the Alypius and Nicomachus texts in Latin. Dedication to Christina of Sweden; vol. 2 contains an epistle dated 21 March 1652. Also contains Euclid, *Introductio harmonica* and *Sectio canonis* and musical works by ps.-Plutarch and Martianus Capella.

The USTC record describes what seems to be the Aristides section, perhaps separately bound.

References: USTC 1561135. EiP Amsterdam 1652.

Heusden 1654

ALGEBRA; Ofte Een Noodige, korte en klare onder-wyzinge inde beginzelen en gronden vande STEL-KONST: doorgaans verciert met verscheiden nieuwe Regelen. Met een Aan-hangh. Vervattende; De

Stel-konstige Boecken DIOPHANTI ALEXANDRINI; Nu eerst in onze Neêr-duitze Taal, vertaalt; konstigh verklaart ende ontbonden op verscheiden manieren: door Stel-konstige getallen, ende nieuw door Vertoogen in Tel-konstige getallen. Alles vol-koomen, gevonden en beschreven Door Fr: Huips.

Imprint: Tot HEUSDEN, Voor den Autheur. Ende zijn te bekoomen by Hendrick Troyen, Boeck-verkooper al-daar. Anno 1654.

Octavo. Diophantus, *Arithmetic* (I), Dutch, ed. Frans vander Huips. The first Dutch printing of any part of this text. Dedication by vander Huips to Wilhem Henrick, Prince of Orange (subsequently William III of England) and other members of his family, undated. Epistle to the reader dated at Heusden on 1 January 1654; the epistle acknowledges that only book I of the Diophantus is included, despite what is implied on the title page. The title-page words ‘Fr: Huips’ are a facsimile signature and are not wholly legible.

The Diophantus has a separate title page with title *DE Stel-konstige Boecken DIOPHANTI ALEXANDRINI. Nu eerst In onze Neêr-duitze Taal, vertaalt; konstigh verklaart ende ontbonden op verscheiden manieren: door Stel-konstige getallen, ende nieuw door Vertoogen in Tel-konstige getallen. Door FRANS vander HUIPS.*, imprint *Tot DORDRECHT, Gedrukt by Iacob Braat, wonende in de Werckende Hoop, 1654.* and colophon *Tot DORDRECHT, Gedrukt by Jacob Braat, wonende in de Werckende Hoop, 1653.* It is sometimes catalogued separately, including at USTC 1818202.

References: USTC 1818213.

Leiden 1654

ΠΡΟΚΛΟΥ ΤΟΥ ΔΙΑΔΟΧΟΥ ΠΑΡΑΦΡΑΣΙΣ ΕΙΣ ΤΗΝ ΤΟΥ ΠΤΟΛΕΜΑΙΟΥ ΤΕΤΡΑΒΙΒΛΟΝ. PROCLI DIADOCHI PARAPHRASIS IN PTOLEMÆI LIBROS IV. De Siderum effectationibus, A LEONE ALLATIO è Græco in Latinum conversa.

Imprint: LVGDVNI BATAVORVM, Ex Officinâ FRANCISCI MOYARDI, Bibliopolæ è regione Academiæ, 1654.

Octavo. ps.-Proclus, *Commentary on the Tetrabiblos of Ptolemy*, Greek and

Latin, ed. Leone Allacci. Reimpression of **Leiden 1635**.

References: USTC 1816458. PAL 23.

Antwerp 1655

APOLLONII PERGÆI CONICORVM LIBRI IV. CVM COMMENTARIIS R. P. CLAVDII RICHARDI, E Societate IESV Sacerdotis, Patria Ornacensis in libero Comitatu Burgundiæ, & in Collegio Imperiali eiusdem Societatis Regij Mathematicarum Matriti Professoris, Dicatis

Imprint: ANTVERPIÆ, Apud HIERONYMVM & IOANNEM BAPT. VERDVSSSEN Anno 1655.

Folio. Apollonius, *Conics* (I–IV), Latin, ed. Claude Richard. Dedication by Richard to Guillaume Raymond de Moncada, undated. The facultas is dated 12 June 1646, the approbatio 27 January 1645 and the royal privilege 24 December 1643.

This appears to be the first edition in this bibliography to place the geometrical diagrams on a set of separate sheets, and they are the subject of notes to the reader (in Latin) and to the bookbinder (in Latin, French and Dutch).

References: USTC 1533888.

Paris 1657

ΔΑΜΙΑΝΟΥ ΦΙΛΟΣΟΦΟΥ ΤΟΥ ΗΛΙΟΔΩΡΟΥ ΛΑΡΙΣΣΑΙΟΥ
Περὶ Ὀπτικῶν Βιβλία β'. DAMIANI PHILOSOPHI HELIODORI
LARISSÆI DE OPTICIS LIBRI II. Nunc primum editi, & Animaduersionibus illustrati Ab ERASMIO BARTHOLINO Casp. Filio.

Imprint: PARISIIS, EX OFFICINA CRAMOSIANA. M. DC. LVII.

Quarto. Heliodorus, *Optics*; Hypsicles, *On ascensions*. Greek and Latin, ed. Rasmus Bartholin. The first printing of the Hypsicles text. According to (Carmody 1960) the translation of Hypsicles is that of Gerard of Cremona;

that of Heliodorus is new (see Todd 2003a). Dedication by Bartholin to Frederick III of Denmark, dated at Paris on 1 July 1656. Privilège dated 29 July 1655; a note appended to it states that this edition was completed on 31 July 1657.

The Damianus/Heliodorus has a separate title page with title ΔΑΜΙΑΝΟΥ ΦΙΛΟΣΟΦΟΥ ΤΟΥ ΗΛΙΟΔΩΡΟΥ ΛΑΡΙΣΣΑΙΟΥ ΠΕΡΙ ΟΠΤΙΚΩΝ ΒΙΒΛΙΑ Β΄. *DAMIANI PHILOSOPHI HELIODORI LARISSÆI DE OPTICIS LIBRI II.*

The Hypsicles has a separate title page with title ΤΨΙΚΛΕΟΥΣ ΑΝΑΦΟΡΙΚΟΣ. *HYPICLIS ANAPHORICVS, SIVE DE ASCENSIONIBVS. Quà Græcè, quà Latinè vulgatus per IACOBVM MENTELIVM.* and imprint *PARISIIS, EX OFFICINA CRAMOSIANA. M. DC. LVII.* It has a dedication by Mentelius to Jacobo Lambino dated at Paris on 5 September 1657.

The two parts are sometimes bound and catalogued separately, though the volume bears a half-title page indicating that they were intended for sale together: *DAMIANI PHILOSOPHI HELIODORI LARISSÆI DE OPTICIS LIBRI II. HYPICLIS ANAPHORICVS, SIVE DE ASCENSIONIBVS.*

References: USTC 6164082.

Padua 1658

CL. PTOLEMÆI Pelusiensis Mathematici OPVS DE SIDERVM IVDICIIS Quadripartitum è Græco Codice in Latinum sermonem per ANTONIVM GOGAVAM GRAVIENSEM Iampridem translatum. cum approbatione GEMMÆ FRISII Medici, & Mathematici clarissimi denuo editum. Præpositis ad singula Capita Breuiarijs, vel Notationibus D. PLACIDI de TITIS Perusini à Mathematicis Sereniss. & Reuerendiss. LEOPOLDI GVILIELMI ARCHIDVCIS AVSTRILÆ & C. Et in florentissima Ticinensi Academia Mathematices interpretis.

Imprint: PATAVII, 1658. Typis Pauli Frambotti.

Duodecimo. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.); both Latin, ed. Placidus de Titis (Placido Titi). Dedication by Titi to the senate of the province

of Milan, dated at Pavia on 1 May 1658, and address to the reader by Titi dated at Padua on 1 October 1657. The text of the *Tetrabiblos* is based on that of Antonio Gogava (**Louvain 1548**) and retains the address to the reader by Gemma Frisius dated at Louvain on 1 October 1548; it is now incorporated in the commentary of Titi. The text of the *Centiloquium* is that of Pontano.

References: USTC 1714405. PAL 71.

London 1659

[Two general title pages are given, one in Latin and one in English.]

MISCELLANEA: SIVE LUCUBRATIONES MATHEMATICÆ. SAMUELIS FOSTER, Olim LONDINI in Collegio GRESHAMENSI Astronomiæ Professoris Publicæ. Omnia in lucem edita, & pleraque Latine reddita, opera & Studio JOHANNIS TWYSDEN, C.L.M.D. Qui etiam ex suis nonnulla adjunxit. Quorum omnium CATALOGUM versa Pagina exhibebit.

MISCELLANIES: OR, MATHEMATICAL LUCUBRATIONS, OF MR. SAMUEL FOSTER, Sometime publike Professor of Astronomie in GRESHAM Colledge in LONDON. Published, and many of them translated into English, by the care and industry of JOHN TWYSDEN. C.L.M.D. Whereunto he hath annexed some things of his own. The CATALOGUE of all which the following Page will shew.

Imprint: LONDINI, Ex Officina LEYBOURNIANA. M. DC. LIX.

LONDON, Printed, by R. & W. LEYBOURN. And are to be sold in St. Paul's Church-yard, the Bible upon Ludgate-hill, and at the Middle-Temple-gate in Fleetstreet. M. DC. LIX.

Quarto. ps.-Archimedes, *Book of lemmas*, Latin, ed. John Graves and Samuel Foster. The first printing of this text of Archimedes, translated from Arabic by Graves and edited by Foster. The volume bears dedications by John Twysden to Henry Yelverton and (his wife) Susanna Longueville. Among many other works, it also contains an epitome of Aristarchus' *On the magnitudes*.

Each included work also has a separate title page; that for the Archimedes

has title *LEMMATA ARCHIMEDIS, APUD GRÆCOS & LATINOS jam pridem desiderata, E VETUSTO CODICE M.S. ARABICO. à JOHANNE GRAVIO TRADUCTA; Et nunc primum CUM ARABUM SCHOLIIS PUBLICATA. Revisa & pluribus mendis repurgata à SAMUELE FOSTER. and imprint LONDINI, Ex Officina LEYBOURNIANA. M. DC. LIX.*

The text is introduced with the title ‘LEMMATA ARCHIMEDIS, Ex traductione Thebit Ibn Coræ: cum Commentariis Excellentis Viri, Abi Alhonîn Ali, filii Almed Alnaswæi.’ and is described in the introductory text as an ‘opusculum’ of Archimedes. It contains 15 propositions. This section, like other sections of this text, occasionally appears catalogued separately.

References: USTC 3074983, 3075458. ESTC R233512, R28397.

Bologna 1660

PAPPI ALEXANDRINI MATHEMATICAE COLLECTIONES A FEDERICO COMMANDINO VRBINATE In Latinum conversæ, & Commentarijs illustratæ. In hac nostra editione ab innumeris, quibus scatebant mendis, & præcipuè in Græco contextu diligenter vindicatæ. ET SERENISSIMO PRINCIPI LEOPOLDO GVLIELMO ARCHIDVCI AVSTRIAE, &c. DICATAE.

Imprint: BONONLÆ Ex Typographia HH. de Duccijs. M. DC. LX.

Colophon: BONONLÆ, ex Typographia HH. de Ducijs. MDCLVIII.

Folio. Pappus, *Collection* (III–VIII), Latin, ed. Carlo Manolessi. Revised (minimally, according to Treweek (1957, 230)) from the text of Commandino (**Pesaro 1588**). Dedication by Manolessi to Archduke Leopold Wilhelm of Austria, dated at Bologna on 1 May 1659.

The imprint date, in red ink, is unclear, and this imprint is frequently catalogued with the date from the colophon, 1658, including by the USTC.

References: USTC 1730872.

Paris 1660

DIOPHANTVS GEOMETRA SIVE OPVS CONTEXTVM EX ARITHMETICA ET GEOMETRIA simul; in quo Quæstiones

omnes Diophanti, quæ geometricæ solui possunt, enodantur tum Algebricis, tum Geometricis rationibus. ADIECTVS EST DIOPHANTVS GEOMETRA PROMOTVS, in quo subtiles Propositiones non absimili methodo pertractantur, & via noua ad eiusmodi praxes inueniendas aperitur. Authore P. IACOBO DE BILLY, Societatis IESV Sacerdote.

Imprint: PARISIIS, Apud MICHAELEM SOLY, viâ Iacobeâ sub Signo Phœnicis. M. DC. LX.

Folio. Diophantus, *Arithmetic*, Latin, ed. Jacques de Billy. Dedication by de Billy to Pierre Odebert, undated. The Facultas is dated 25 May 1658.

New proofs are provided using geometrical and sometimes algebraic methods.

References: None identified.

Amsterdam 1661

ALGEBRA; OFTE Een Noodige, korte en klare onder-wijsinge inde beginzelen en gronden VANDE STEL-KONST: Door-gaans verciert met verscheiden nieuwe Regelen. Met een AAN-HANGH. Vervattende; 't eerste Stel-konstigh Boeck DIOPHANTI ALEXANDRINI. Nu eerst in onse Nederduitze Taal, vertaalt; konstigh verklaart ende ontbonden op verscheiden manieren: door Stel-konstige getallen, ende nieuw door Vertogen in Telkonstige getallen. Voor de tweede-maal; met een Toe-voegingh, op d'ontbindinge der Vierkants-vierkante Stel-konstige Vergelijckinge: ende door-gaans vebetert. Door FRANS VANDER HUIPS.

Imprint: t'AMSTERDAM, Voor Hendrick Tjercksz. de Vries, Boeckverkooper op de Zee-dijck, over de Storm-steegh, in de Chronijck van Vrieslandt, Anno 1661.

Colophon: Tot DORDRECHT, Gedruckt by Jacob Braat, wonende in de Werckende Hoop, 1653.

Octavo. Diophantus, *Arithmetic* (I), Dutch, ed. Frans van der Huips. Reimpression of Heusden 1654, incorporating a reissue, with cancel title page, of the Diophantus section of that work. The new title page has title *DE*

Stel-konstige Boecken DIOPHANTIALEXANDRINI. Nu eerst In onze Neêr-duitsze Taal, vertaalt; konstigh verklaart ende ontbonden op verscheiden manieren: door Stel-konstige getallen, ende nieuw door Vertoogen in Telkonstige getallen. Door FRANS vander HUIPS. and imprint t'AMSTERDAM, Voor Hendrick Tjercksz. de Vries, Boeck-verkoper op de Zee-dijck, over de Storm-steegh, in de Chronijck van Vrieslandt, Anno 1661. This section sometimes appears separately catalogued, for instance at USTC 1843213.

References: USTC 1843214.

Florence 1661

APOLLONII PERGÆI CONICORVM LIB. V. VI. VII. PARAPHRASTE ABALPHATO ASPAHANENSI Nunc primùm editi. ADDITVS IN CALCE ARCHIMEDIS ASSVMPTORVM LIBER, EX CODICIBVS ARABICIS M.SS. SERENISSIMI MAGNI DVCIS ETRVRIÆ ABRAHAMVS ECCELLENSENSIS MARONITA In Alma Vrbe Linguar. Orient. Professor Latinos reddidit. IO: ALFONSVS BORELLVS In Pisana Academia Matheseos Professor curam in Geometricis versioni contulit, & notas vberiores in vniuersum opus adiecit. AD SERENISSIMVM COSMVM III. ETRVRIÆ PRINCIPEM.

Imprint: FLORENTIÆ, Ex Typographia Iosephi Cocchini ad insigne Stellæ MDCLXI.

Quarto. Apollonius, *Conics* (V–VII); ps.-Archimedes, *Book of lemmas*, both Latin, tr. Abraham Ecchellensis (Ibrāhīm al-Haḳilānī) and ed. Giovanni Alfonso Borelli. The first printing of these books of the *Conics*. Dedication by Borelli to Cosmo III of Etruria, undated. The imprimatur page bears the dates 3, 7 and 16 July 1660.

The Archimedes has a separate title page with title *ARCHIMEDIS LIBER ASSVMPTORVM INTERPRETE THEBIT BEN-KORA EXPONENTE ALMOCHTASSO Ex Codice Arabico manuscripto SERENISS. MAGNI DVCIS ETRVRIÆ, ABRAHAMVS ECCELLENSENSIS Latine vertit. IO: ALFONSVS BORELLVS Notis Illustrauit.*

References: USTC 1750073.

Helmstadt 1661

PROCLI DIODOCHI SPHÆRA.

Imprint: HELMESTADII, Typis HENNINGI MÜLLERI Acad. Typog. Anno M D CLXI.

ps.-Proclus, *On the sphere*, Latin. Listed as spurious by Todd (2003b), but a copy is certainly held at Durham University Library. I have seen only a photograph of the title page and cannot identify which version of the text is printed.

References: None identified.

London 1661–65

MATHEMATICAL Collections and Translations: In two TOMES.

Two volumes, quarto. Archimedes, *On floating bodies*, English, ed. Thomas Salusbury. The first printing of this work in English, translated from the Italian of Tartaglia (**Venice 1551/Venice 1562b/Venice 1606**).

Volume 2 part 1, which contains the Archimedes text, has a separate title page with title *MATHEMATICAL DISCOURSES AND DEMONSTRATIONS, TOUCHING Two NEW SCIENCES, pertaining to THE MECHANICKS AND LOCAL MOTION: BY GALILÆUS GALILÆUS LYNCEUS, Chiefe Phylosopher and Mathematitian to the most Serene GRAND DUKE OF TUSCANY. WITH AN APPENDIX OF THE Centre of Gravity Of some SOLIDS. Englished from the Originall Latine and Italian, By THOMAS SALUSBURY, Esq; and imprint LONDON, Printed by WILLIAM LEYBOURN, Anno Dom. MDCLXV.*

The Archimedes text has a separate title page with title *ARCHIMEDES HIS TRACT De Incidentibus Humido, OR OF THE NATATION OF BODIES VPON, OR SVBMERSION IN, THE WATER OR OTHER LIQUIDS. IN TWO BOOKS. Translated from the Original Greek, First into Latine, and afterwards into Italian, by NICOLO TARTAGLIA, and by him familiarly demonstrated by way of Dialogue, with Richard Wentworth, a Noble English Gentleman, and his Friend. Together with the Learned Commentaries of Federico Commandino, who hath Restored such of the Demonstrations as, thorow the Injury of Time, were obliterated. Now compared with the ORIGINAL, and Englished By THOMAS SALUSBURY,*

Esq. and imprint *LONDON, Printed by W. Leybourn, 1662.*

Volume 1 part 1 has a separate title page with imprint date 1661 and bears a dedication from Thomas Salusbury to John Denham, and an epistle to the reader, also from Salusbury, dated 20 November 1661. Other portions of the text have title pages with imprint dates in 1664 and 1665.

References: USTC 3078243, 3083931. ESTC R19153, R226888.

The Hague 1663

CLAUDII PTOLEMÆI TRACTATUS DE JUDICANDI FACULTATE ET DE ANIMI PRINCIPATU, E Græco in Latinum versus Ab ISMAELE BULLIALDO: Cujus accedunt NOTAE BREVES Ad RENATI CARTESII opiniones I. De Animæ specie Intellectui impressa. II. Corpus non sentire sed Animam. III. De Speciebus ab objectis emiſſis. ET SOLUTIONES ALIQUOT QUÆSTIONUM Quibus primæ Philosophiæ principia astruuntur: Per FRANCISCUM DULAURENS.

Imprint: HAGÆ-COMITIS: Ex Typographia ADRIANI VLACQ, 1663.

Quarto. Ptolemy, *On the criterion and hegemonikon*, Latin, ed. Ismaël Boulliau (Bullialdus). Text reprinted from **Paris 1663**.

References: USTC 1800396.

Lyon 1663

HIERONYMI CARDANI MEDIOLANENSIS PHILOSOPHI AC MEDICI CELEBERRIMI OPERVM TOMVS QVINTVS; QVO CONTINENTVR ASTRONOMICA, ASTROLOGICA, ONIROCRITICA. CONTENTORVM HVIVS TOMI SERIEM Index Titulorum exhibet. EDITIO, VT CÆTERIS ELEGANTIOR ITA ET ACCVRATIOR.

Imprint: LVGDVNI, Sumptibus IOANNIS ANTONII HVGVE-TAN, & MARCI ANTONII RAVAVD. M. DC. LXIII.

Folio. Ptolemy, *Tetrabiblos*, Latin, ed. Charles Spon. Volume 5 of Cardano's *Opera*; the Ptolemaic text is incorporated into Cardano's commentary, and is reprinted from **Basel 1554a/Basel 1555/Basel 1578**.

References: USTC 6154062. PAL 18.

Paris 1663

ΚΛΑΥΔΙΟΥ ΠΤΟΛΕΜΑΙΟΥ ΠΕΡΙ ΚΡΙΤΗΡΙΟΥ ΚΑΙ ΗΓΕ-
ΜΟΝΙΚΟΥ. CLAVDII PTOLEMÆI TRACTATVS DE IVDI-
CANDI FACVLTATE ET ANIMI PRINCIPATV. ACCESSERVNT
De illius Patria & Astronomiæ sedibus OLYMPIODORI &
THEODORI Meliteniotæ testimonia. ET Inscriptio Canobi ab
ipso consecrata, repertorum ab eo in Astronomia summa capita
continens. Ex Regia Bibliotheca nunc primum in lucem edidit, Latine
reddidit, & Commentariis illustravit ISMAEL BVLLIALDVS.

Imprint: PARISIIS, Apud SEBASTIANVM CRAMOISY, & SE-
BASTIANVM MABRE-CRAMOISY, Regios Typographos, viâ
Iacobæâ, sub Ciconiis. M. DC. LXIII.

Quarto. Ptolemy, *On the criterion and hegemonikon*; *Canobic inscription*;
Greek and Latin, ed. Ismaël Boulliau (Bullialdus). The first printing of these
texts. Dedication by Boulliau to Johannes Hevelius, dated at Paris on 6 April
1663. The privilege is dated 30 April 1663.

References: USTC 6083912.

Cambridge 1665

EUCLIDIS SEX PRIMI ELEMENTORUM GEOMETRICORUM
LIBRI, Commodius demonstrati. A. P. GEORG. FOURNIER è
societate JESU. Accesserunt Elementa Astronomica, ubi Theodosii
Tripolitæ Sphæricorum libri tres, & universa triangulorum resolutio

demonstrantur per Johannem Baptistam Duhamel, Matheseos Professore. Editio prioribus auctior atque castigatio.

Imprint: CANTABRIGIÆ, Excudebat J. Field, impensis Edwardi Story, MDCLXV.

48mo. Theodosius, *Spherics*, Latin, ed. Georges Fournier and Johannes Baptista Duhamel. The main portion of the text is a reimpression of Fournier's edition of *Elements* I–VI (see *EiP* **Paris 1643**, **Paris 1644a** and **London 1654**). The Theodosius text, which appears here for the first time, has a separate title page with title *ELEMENTA ASTRONOMICA. Ubi Theodosii Tripolitæ Sphæricorum libri tres, cum universâ triangulorum resolutione, novâ, succinctâ & facillimâ arte demonstrantur. Ad illustriss. virum. D. D. CLAUDIUM BAZIN, Regi à sacris sanctoribusque Consiliis, & in magno supremoque Consilio Patrono Regio Catholico, Equiti Domino de Besonts. Autore Johanne Baptista Duhamel, in Academia Parisiensi Matheseos Professore Regio.* and imprint *CANTABRIGIÆ, Excudebat J Field, impensis Eduardi Story, apud quem prostant venales MDCLXV.* It has a dedication by Jean Baptiste Duhamel to Claude Bazin.

Some copies have a variant form of the title page, replacing the words 'Commodius ... Professore' as follows: *In commodiorem formam contracti & demonstrati. A. P. GEORG. FOURNIER è societate JESU. Accesserunt Elementa Astronomica, Autore Johanne Baptista Duhamel, in Academia Parisiensi Matheseos Professore Regio.*

References: USTC 3083853. ESTC R5894. *EiP* Cambridge 1665.

Nuremberg 1667

Des Unvergleichlichen Archimedis Sand-Rechnung, Oder Tiefsinnige Erfindung einer, mit verwunderlicher Leichtigkeit aussprechlichen, Zahl, welche Er unfehlbar beweiset grösser zu seyn als die Anzahl aller Sandkörnlein, mit welchen die Höhle der ganzen Welt, biß an den äussersten Fix- oder Haft-Sternen-Himmel könnte ausgefüllet werden. Aus dem Griechischen in das Hochteutsche übersetzt, und mit nohtwendigen Anmerkungen durchgehends erläutert Von Joh. Christoph Sturm, Phil. M.

Imprint: Nürnberg, In Verlegung Paul Fürstens, Kunst- und Buchhändlers seel. Wittib. Gedruckt bey Christoph Gerhard, Im Jahr 1667.

Quarto. Archimedes, *The sand reckoner*, German, ed. Johann Christoph Sturm. The first printing of this work in a modern language. Dedication to the Burgermeisters of Nuremberg dated 2 January 1667.

References: USTC 2558822.

Gotha 1669

APOLLONI PERGÆI CONICARUM SECTIONUM LIBRI V. VI. & VII in Græcia deperditi, jam vero ex Arabico Manuscripto ante quadringentos annos elaborato operâ subitanê Latinitate donati à CHRISTIANO RAVIO Berlinatæ Oriental. LL. Prof. Reg. Upsal.

Imprint: Sumtibus Salomonis Reyheri. Kilonij Typis Joachimi Reumannii Acad. Typogr. Anno M DC LXIX.

Octavo. Apollonius, *Conics* (I–VII), Latin, ed. Christian Ravis. For the portions extant in Greek, the translation by Claude Richard is reprinted from **Antwerp 1655**; for the portions extant in Arabic the translation is by Ravis (where both versions are extant, parallel columns are used). Dedication by Ravis to Charles XI of Sweden dated at Kiel on 5 October 1669. Epistle of Samuel Reyher to Ravis dated at Gotha on 29 August 1669; another of Ravis to Rehyer dated 31 August 1669.

Unusually for a geometrical work, no diagrams are given. Together with the use of a complex mix of Latin, Greek, Arabic and Hebrew for letter labels, this decision makes the text exceptionally hard to follow.

References: USTC 2625331.

Nuremberg 1670

Des Unvergleichlichen ARCHIMEDIS Kunst-Bücher Oder Heutigs Tags befindliche Schrifften, Aus dem Griechischen in das Hoch-Teutsche übersetzt, und mit nohtwendigen Anmerkungen durch und

durch erläutert Von Johanne Christophoro Sturmio, Phil. M. Mathem. und Phys. P. P. zu Altdorf.

Imprint: Nürnberg, In Verlegung Paulus Fürstens, Kunst- und Buchhändlers Seel. Wittib und Erben. Gedrukt daselbst bey Christoph Gerhard, Im Jahr Christi 1670.

Quarto. Archimedes, *On the sphere and cylinder, Measurement of a circle, On the equilibrium of planes, Quadrature of the parabola, On conoids and spheroids, On spirals*. All German, ed. Johann Christoph Sturm. The first printing of these works in a modern language, with the exception of *On the equilibrium of planes* and *On the sphere and cylinder*. License to print dated 7 September 1662.

The separate works have elaborate headings or title pages, but the pagination is continuous. Frequently bound with **Nuremberg 1667**.

References: USTC 2596254.

Toulouse 1670

DIOPHANTI ALEXANDRINI ARITHMETICORVM LIBRI SEX, ET DE NVMERIS MVLTANGVLIS LIBER VNVS. CVM COMMENTARIIS C. G. BACHETI V. C. & obseruationibus D. P. de FERMAT Senatoris Tolosani. Accessit Doctrinæ Analyticæ inuentum nouum, collectum ex varijs eiusdem D. de FERMAT Epistolis.

Imprint: TOLOSÆ, Excudebat BERNARDVS BOSC, è Regione Collegij Societatis Iesu. M. DC. LXX.

Quarto. Diophantus, *Arithmetic, On polygonal numbers*; both Greek and Latin, ed. Samuel de Fermat. Text based on that of Bachet (**Paris 1621**), with the addition of commentary from Pierre de Fermat. Dedication by Samuel de Fermat to Jean-Baptiste Colbert, undated.

References: USTC 6164573.

Cambridge 1671

Opuscula MYTHOLOGICA, ETHICA ET PHYSICA. GRÆCE & LATINE. Palæphatus, Heraclitus, Anonymus, Phurnutus, Sallustius,

Ocellus Lucanus, Timæus Locrus. Demophilus, Democrates, Secundus, Sextius Pythagoricus, Theophrasti Characteres, Pythagoricorum Fragmenta. Heliodori Larissæi Optica.

Imprint: CANTABRIGIÆ, Ex Officina J. Hayes, Celeberrimæ Academiæ Typographi: Impensis Joann. Creed, Bibliopolæ Cantab. 1671.

Octavo. Heliodorus, *Optics*, Greek and Latin, ed. T. Gale. Text reprinted from **Hamburg 1610**, thus taken from the edition of Danti (**Florence 1573**). The included works have separate title pages and, frequently, dedications, and certain of them appear catalogued separately. That for the Heliodorus has title ἩΛΙΟΔΩΡΟΥ ΛΑΡΙΣΣΑΪΟΥ ΚΑΙ ΦΑΛΑΙΑ ΤΩΝ ὈΠΤΙΚΩΝ. *HELIODORI LARISSÆI CAPITA OPTICORUM. Ad Hetrusci codicis fidem Græcè & Latinè edita & recensita. Ex Bibliotheca FR. LINDENBROGI.* and imprint CANTABRIGIÆ: Ex Officina J. Hayes, Celeberrimæ Academiæ Typographi, Impensis Joann. Creed, Bibliopolæ Cantab. 1670. There is no separate dedication. When it is catalogued separately, it is sometimes with the date 1670.

A second edition of the *Opuscula mythologica* (Amsterdam 1688) omitted the Heliodorus text.

References: USTC 3089353, 3089354. ESTC R30421, R483562.

Ulm 1674

ASTROLOGIA APHORISTICA PTOLOMAEI, HERMETIS, LVDOVICI DE RIGIIS, ALMANSORIS, HIERONYMI CARDANI, ET AVTORIS INNOMINATI.

Imprint: VLMAE, MDCLXXIV. Apud Lodovicum Lanouii.

Duodecimo. ps.-Ptolemy, *Centiloquium*, Latin. Reimpression of **Ulm 1641**. The Ptolemy section is sometimes catalogued separately.

References: USTC 2692412. PAL 111.

London 1675

ARCHIMEDIS OPERA: APOLLONII PERGÆI CONICORUM

LIBRI III. THEODOSII SPHÆRICA: METHODO NOVA ILLUSTRATA, & Succinctè DEMONSTRATA. PER IS. BARROW, Exprofessorem Lucasianum CANTAB. & Societatis Regiæ Soc.

Imprint: LONDINI, Excudebat Guil. Godbid, vœneunt apud Rob. Scott, in vico Little Britain. 1675.

Quarto. Archimedes, *On the sphere and cylinder, Measurement of a circle, On spirals, On conoids and spheroids, On the equilibrium of planes, Quadrature of the parabola, On floating bodies, The sand reckoner*; ps.-Archimedes, *Book of lemmas*; Apollonius, *Conics* (I–IV); Theodosius, *Spherics*. All Latin, ed. Isaac Barrow. In broadly the same symbol-heavy style as Barrow’s 1655 edition of Euclid’s *Elements*; figures appear on separate sheets. The Archimedes, Apollonius and Theodosius sections have separate title pages, and copies containing only one or two of the sections are common.

USTC item 1561517 is a ‘lost book’, known only from a reference in a contemporary sale catalogue, to an *Opera & lectiones opticae Is Barrouw*. in 2 volumes, with imprint *Amsterdam, 1675*. It is possible that this was an (unauthorized?) reimpression or reissue of this book, but a mistake seems more likely.

References: USTC 3094211. ESTC R6704.

Oxford 1676

ΑΡΧΙΜΗΔΟΥΣ ΤΟΥ ΣΥΡΑΚΟΥΣΙΟΥ Ψαμμίτης, καὶ Κύκλου Μέτρησις. ΕΥΤΟΚΙΟΥ ΑΣΚΑΛΩΝΙΤΟΥ, εἰς αὐτὴν ὑπόμνημα. ARCHIMEDIS SYRACUSANI Arenarius, Et Dimensio Circuli. EUTOCII ASCALONITÆ, in hanc Commentarius. Cum Versione & Notis Joh. Wallis, SS. Th. D. Geometriæ Professoris Saviliani.

Imprint: OXONII. E Theatro SHELDONIANO. 1676.

Octavo. Archimedes, *The sand reckoner, Measurement of a circle*. Eutocius, *Commentary on the Measurement of a circle of Archimedes*. Greek and Latin, ed. John Wallis.

USTC (3095915) reports a variant with imprint ‘sold by Peter Parker’, based on a single copy in Jesus College Cambridge.

The *Sand reckoner* is sometimes catalogued separately, as at ESTC R19035.
References: USTC 3095134, 3095915. ESTC R172498.

Oxford 1677

GUILELMI OUGHTRED ÆTONENSIS, Quondam collegii Regalis
In CANTABRIGIA Socii. Opuscula MATHEMATICA hactenus
inedita.

Imprint: OXONII, E THEATRO SHELDONIANO, Anno 1677.

Quarto. Diophantus, *Arithmetic* (I–III) (enunciations), Latin, ed. William Oughtred. Not to be confused with the 1676 *Opuscula mathematica* of Oughtred, which contains a distinct set of texts.

ESTC R181225 (USTC 3096512) reports a variant with words added to the imprint on a paste-down: ‘And are to be sold by Peter Parker at the Leg and Star against the Royal Exchange in Cornhil, London’. ESTC R5180 reports a further variant with the words ‘And are to be sold by William Leak at the Crown in Fleet-street, London’.

References: USTC 3096512, 3096513. ESTC R181225, R5180.

Amsterdam 1680

HERONIS ALEXANDRINI SPIRITALIUM LIBER, à FEDERICO
COMMANDINO URBINATE ex Græco in Latinum conversus. Huic
editioni accesserunt JO. BAPT. ALEOTTI Quatuor Theoremata Spir-
italia, Ex Italico in Latinum conversa.

Imprint: AMSTELODAMI, Apud JANSSONIO-WAESBERGIOS.
M. DC. LXXX.

Quarto. Hero, *Pneumatics*, Latin, ed. Federico Commandino. Reimpres-
sion of Urbino 1575/Paris 1583, with the addition of some material translated
into Latin from the Italian of Aleotti (Ferrara 1589/Bologna 1647). The il-
lustrations are closely imitated from the Latin original (Roby 2023, 248).

References: USTC 1816316.

Oxford 1682

ΚΛΑΥΔΙΟΥ ΠΤΟΛΕΜΑΙΟΥ ΑΡΜΟΝΙΚΩΝ ΒΙΒΛΙΑ Γ'. CLAUDII PTOLEMÆI HARMONICORUM LIBRI TRES. Ex Codd. MSS. Undecim, nunc primum Græce editus. JOHANNES WALLIS, SS. TH. D. Geometriæ Professor Savilianus Oxoniæ, Regiæ Societatis Londini Sodalis, Regiæque Majestati à Sacris; Recensuit, Edidit, Versione & Notis illustravit, & Auctarium adjecit.

Imprint: OXONII, E THEATRO SHELDONIANO, An. Dom. 1682.

Quarto. Ptolemy, *Harmonics*, Greek and Latin, ed. John Wallis. The first Greek printing of this text. Dedication by Wallis to Charles II of England, undated. Epistle to the reader dated on 1 January 1682.

References: USTC 3103651. ESTC R27469.

Palermo 1685

ADMIRANDI ARCHIMEDIS SYRACVSANI MONVMENTA OMNIA MATHEMATICA, QVAE EXTANT, Quorumque Catalogum inuersa Pagina demonstrat, EX TRADITIONE DOCTISSIMI VIRI D. FRANCISCI MAVROLYCI, NOBILIS SICVLI, ABBATIS SANCTAE MARIAE A PARTV. OPVS Præclarissimum, non priùs Typis commissum, à Matheseos verò Studiosis enixè desideratum, tandemque è fuligine Temporum accuratè excussum. AD ILLVST. ET RELIGIOSISSIMVM VIRVM FR. SIMONEM RONDINELLI SAC. HIEROSOLYMITANAE RELIGIONIS EQVITEM LAVDATISS. S. Ioannis Baptistæ à Sauigliana, necnon Pondaderæ, & S. Philippi de Osmo Commendatarium digniss. Vnius è Melitensibus Trirēibus olim strenuissimum Ductorem, plurimarumque Nauium Turcicarum Debellatorem gloriosum, In Vrbe feliciss. Panormo pro

sua Sac. Relig. pluribus annis vigilantiss. Legatum, Receptorem, ac Procuratorem Generalem, & inclytæ Reaccensorum Academiae Vrbe in ipsa eruditissimum Principem: &c.

Imprint: PANORMI Apud D. Cyllenium Hesperium, MDC. LXXXV. SVMPT. ANTONINI GIARDINAE BIBLIOPOLAE PANORM

Colophon: PANORMI Apud D. Cyllenium Hesperium, SVB SIGNO AVREAE CONCHAE. Sumptibus ANTONINI GIARDINAE Bibliopolæ Panormitani, 1685.

Quarto. Archimedes, *Measurement of a circle, On the sphere and cylinder, On the equilibrium of planes, Quadrature of the parabola, On spirals, On conoids and spheroids, The sand reckoner, On floating bodies.* All Latin, ed. Cyllenius Hesperius. (Hesperius, not otherwise known, seems likely to be a pseudonym.) The texts of the *Sphere, Equilibrium, Parabola, Spirals* and *Conoids* are based on translations by Francesco Maurolico. Dedication by Hesperius to Simon Rondinelli dated at Palermo on 1 November 1684. Epistle to the reader by Hesperius, undated. Various letters between Hesperius and other Jesuits are printed with dates in May, June and September 1681; the ecclesiastical approbations are dated 3 and 18 January 1684. A note at the end of the *De conoidibus* dates the conclusion of Maurolico's work on the *opera* of Archimedes on 17 December 1549.

References: USTC 1750110.

Paris 1685

SECTIONES CONICÆ IN NOVE LIBROS DISTRIBUTÆ, In quibus quidquid hactenus observatione dignum cū à veteribus, tū à recentioribus Geometris traditum est, novis contractisque demonstrationibus explicatur; Multis etiam & exquisitis Propositionibus recens inventis illustratur. Accesserunt Sectiones Pyramidum super basibus Parabolicis, Ellipticis, & Hyperbolicis, unā cum Sectionibus Cylindrorum, quibus substernuntur Circuli, aut Conicæ Sectiones. Cum Appendice de Sectionibus Conicis omnium generum, eadem &

universali methodo, ac magna facilitate demonstratis, & aliis curvis ex iisdem fontibus deductis. ADJECTA DEMUM EST Brevis Expositio Propositionum septem Librorum Conicorum Apollonii Pergæi, quæ cum superius demonstratis conferuntur. Autore PH. DE LA HIRE Regio Matheseos Professore & Regiæ Scientiarum Academiæ Socio.

Imprint: PARISIIS, Apud STEPHANUM MICHALLET, viâ Jacobeâ sub signo S. Pauli. M. DC. LXXXV.

Folio. Apollonius, *Conics* (I–VII: enunciations), Latin, ed. Philippe de la Hire. The privilège is dated 19 March 1685 and a note appended to it records that printing was concluded on 28 March. Certain groups of propositions are omitted from the text.

References: USTC 6063904.

Bamberg 1688

HERONIS ALEXANDRINI Buch Von Lufft- und Wasser-Künsten, welche von Friderich Commandino von Urbin aus dem Griegischen in das Lateinische übersetzt. Deme beygefügt JOANNIS BAPTISTÆ ALEOTTI Vier Lehrsätz von Lufft und Wasser Künsten. Anjetzo denen Liebhaberen solcher Wissenschaften zum besten aus dem Lateinischen ins Teutsche gebracht. Durch AGATHUM CARI-ONEM. Und mit einem Anhang von allerhand Mühl- Wasser- und Grotten-Wercken aus Salomon De Cous gewesenem Chürfürstl. Pfaltzgrfl. Ingenieurn und Baumeistern, auch anderen berühm- und erfahrenen Autoribus zusammen getragen, mit vielen schönen Holtz-Figurn, nebst 56. Kupffern zier- und deutlich vorgestellt.

Imprint: BAMBERG. In Verlegung Arnold Heill, Hochfürstl. Hoff-Buchhändlern. Im Jahr M DC LXXXVIII.

Quarto. Hero, *Pneumatics*, German, ed. Agathus Carion. (The author has been identified as Tobias Nislen (Roby 2023, 269).) The first printing of this text in German; a translation of **Amsterdam 1680**, thus of the Latin text by Commandino with the addition of (originally Italian) material by Aleotti. Additional material was translated from Salomon de Caus, *Les Raisons des*

Forces Mouvantes (1624) (Roby 2023, 210).

References: USTC 2703273.

Frankfurt 1688

HERONIS ALEXANDRINI Buch Von Lufft- und Wasser-Künsten, welche von Friderich Commandino von Urbin aus dem Griegischen in das Lateinische übersetzt. Deme beygefügt JOANNIS BAPTISTÆ ALEOTTI Vier Lehrsätz von Lufft und Wasser Künsten. Anjetzo denen Liebhaberen solcher Wissenschaften zum besten aus dem Lateinischen ins Teutsche gebracht. Durch AGATHUM CARI-ONEM. Und mit einem Anhang von allerhand Mühl- Wasser- und Grotten-Wercken aus Salomon De Cous gewesenenes Chürfürstl. Pfaltzgrfl. Ingenieur und Baumeistern, auch anderen berühmten und erfahrenen Autoribus zusammen getragen, mit vielen schönen Holtz-Figurn, nebst 56. Kupffern zier- und deutlich vorgestellt.

Imprint: FRANCKFURT. Bey Johann Wilhelm Ammon zu finden. Im Jahr M DC LXXXVIII.

Quarto. Hero, *Pneumatics*, German, ed. Agathus Carion. A reissue of **Bamberg 1688** with cancel title page.

References: USTC 2616106.

Oxford 1688

ΑΡΙΣΤΑΡΧΟΥ ΣΑΜΙΟΥ Περί μεγεθῶν καὶ ἀποστημάτων Ἡλίου καὶ Σελήνης, BIBAION. ΠΑΠΠΟΥ ΑΛΕΞΑΝΔΡΕΩΣ Τοῦ τῆς Συναγωγῆς ΒΙΒΛΙΟΥ Β' Απόσπασμα. ARISTARCHI SAMII De Magnitudinibus & Distantiis Solis & Lunæ, LIBER. Nunc primum Græce editus cum Federici Commandini versione Latina, notisque illius & Editoris. PAPPI ALEXANDRINI SECUNDI LIBRI MATH-EMATICÆ COLLECTIONIS, Fragmentum, Hactenus Desideratum. E Codice MS. edidit, Latinum fecit, Notisque illustravit JOHANNES

WALLIS, S. T. D. Geometriæ Professor Savilianus; & Regalis Societatis Londini, Sodalis.

Imprint: OXONLÆ E THEATRO SHELDONIANO. 1688.

Quarto. Aristarchus, *On the sizes and distances of the Sun and Moon*, Greek and Latin, ed. John Wallis. The first printing of this text in Greek. The Latin text is that of Commandino (**Pesaro 1572**). Imprimatur dated 2 December 1687; epistle to the reader by Wallis dated 1 November 1687. Also contains a fragment of Pappus, *Collection II* in Greek and Latin (compare the material from Pappus included in **Pesaro 1572**).

Each work has a separate title page; that for the Aristarchus has title ΑΡΙΣΤΑΡΧΟΥ ΣΑΜΙΟΥ ΒΙΒΛΙΟΝ ΠΕΡΙ ΜΕΓΕΘΩΝ ΚΑΙ ΑΠΟΣΤΗΜΑΤΩΝ ΗΛΙΟΥ ΚΑΙ ΣΕΛΗΝΗΣ. *ARISTARCHI SAMII LIBER DE MAGNITUDINIBUS ET DISTANTIIS SOLIS ET LUNÆ. Nunc primum Græce editus. Cum Latina Versione FEDERICI COMMANDINI. Accurante JOHANNE WALLIS S. T. D. Geometriæ Professore Saviliano.* and imprint OXONLÆ E THEATRO SHELDONIANO. 1688.

That for the Pappus has title ΠΑΠΠΟΥ ΑΛΕΞΑΝΔΡΕΩΣ Λέιψανον Τοῦ τῆς Συναγωγῆς ΒΙΒΛΙΟΥ Β'. *PAPPI ALEXANDRINI Fragmentum SECUNDI LIBRI MATHEMATICÆ COLLECTIONIS. Hactenus Desideratum. E Codice MS. edidit, Latinum fecit, Notisque illustravit JOHANNES WALLIS, S. T. D. Geometriæ Professor Savilianus.* and imprint: OXONLÆ E THEATRO SHELDONIANO. 1688. The Pappus section is occasionally catalogued separately.

References: USTC 3114453. ESTC R1170.

Paris 1688

ANALECTA GRÆCA SIVE VARIA OPUSCULA GRÆCA HACTENUS NON EDITA. Ex MSS. Codicibus eruerunt, Latine verterunt, & Notis illustrarunt MONACHI BENEDICTINI, Congregationis Sancti Mauri. TOMUS PRIMUS.

Imprint: LUTETIÆ PARISIORUM, Apud Viduam EDMUNDI MARTIN, JOANNEM BOUDOT, & STEPHANUM MARTIN, in

via Jacobæa, ad Solem aureum. Anno M. DC. LXXXVIII.

Colophon: PARISIIS, Excudebat GABRIEL MARTINUS, anno M. DC. LXXXVIII.

Quarto. Hero, *Measures* (extracts), Greek and Latin, ed. anonymous (a Benedictine monk of the congregation of St. Maur). The first printing of any part of this text. The introductory text to the Hero extracts notes that the French Royal library possesses a complete text of the *Mensurae*, but that its length prevents its printing in full at this time. Dedication by the translator to Louis Boucherat. Registered for printing on 28 April 1688; printing completed on 30 October 1688.

References: USTC 6133400.

Frankfurt 1693

HERONIS ALEXANDRINI Wunder-Buch Von Lufft- und Wasser-Künsten, welche von Friderich Commandino von Urbin aus dem Griegischen in das Lateinische übersetzt. Deme beygefügt JOANNIS BAPTISTÆ ALEOTTI Vier Lehrsätz von Lufft und Wasser Künsten. Anjetzo denen Liebhaberen solcher Wissenschaften zum besten aus dem Lateinischen ins Teutsche gebracht. Durch AGATHUM CARIONEM. Und mit einem Anhang von allerhand Mühl- Wasser- und Grotten-Wercken aus Salomon De Cous gewesenenes Chürfürstl. Pfaltzgrfl. Ingenieurn und Baumeistern, auch anderen berühmten- und erfahrenen Autoribus zusammen getragen, mit vielen schönen Holtz-Figurn, und Kupffern, zier- und deutlich vorgestellt.

Imprint: Franckfurt am Mayn. In Verlegung Johann Melchior Bencard. Im Jahr MDCXCIII.

Quarto. Hero, *Pneumatics*, German, ed. Agathus Carion. Reissue of **Bamberg 1688/Frankfurt 1688** with cancel title page.

References: USTC 2644220.

Paris 1693

VETERUM MATHEMATICORUM ATHENÆI, BITONIS,

APOLLODORI, HERONIS, PHILONIS, ET ALIORUM OPERA,
GRÆCE ET LATINE PLERAQUE nunc primum edita. Ex
Manuscriptis Codicibus Bibliothecæ Regiæ.

Imprint: PARISIIS, EX TYPOGRAPHIA REGIA. M. DC XCIII.

Colophon: PARISIIS, E TYPOGRAPHIA REGIA, CURANTE
JOANNE ANISSON, ejusdem Typographiæ Directore. M. DC.
XCIII.

Quarto. Athenaeus, *On machines*; Apollodorus, *On siege engines*; Philo
of Byzantium, *Siege engine construction*; Biton, *Construction of war machines
and catapults*; Hero, *Catapults, War machines, Pneumatics, Automata*. All Greek
and Latin, ed. Melchisédech Thévenot. First printing of the Apollodorus,
Athenaeus, Biton and Philo texts and of the *Catapults*; for the *Automata* this
is the first printing in Greek or Latin (it had appeared in Italian in **Venice
1589a**); for the *Pneumatics* this is the first printing in Greek.

Also contains (in Greek) text from Julius Africanus, Aeneas Tacticus and
(in Latin) Giovan Battista Aleotti (cf. **Amsterdam 1680**). The editorial and
translation work is credited to Thévenot, Philippe de la Hire, J. Boivin de
Villeneuve and D. Couture (Grillo 2019, xxix).

Some catalogues report this with imprint date 1613, presumably by
misreading of 'XCIII'. USTC 6005085 is a *Veterum mathematicorum opera* dated
1643, known only from a unique copy in Lyon, which may reflect a different
misreading.

References: USTC 6129518.

Pistoria 1696

APOLLONII PERGÆI CONICORUM LIBRI QUATUOR,
SERENISSIMO PRINCIPI JOANNI GASTONI AB ETRURIA
DICATI UNA CUM LEMMATIBUS PAPPI ALEXANDRINI ET
COMMENTARIIS EUTOCHII ASCALONITÆ: Quæ olim primus
vulgavit omnia FEDERICUS COMMANDINUS URBINAS, E
GRÆCO A SE CONVERSA, Expurgata mendis, & commentariis
illustrata. Nuperrimè autem in lucem prodeunt, Ab aliis etiam erratis

longè plurimis, Quæ, ut primùm edita sunt, identidem irrepserunt, Vindicata.

Imprint: PISTORII Ex Nova Typographia Stephani Gatti. Anno MDCXCVI.

Quarto. Apollonius, *Conics* (I–IV); Eutocius, *Commentary on the first four books of the Conics of Apollonius*; both Latin, ed. Nicolaus Buti. New edition of **Bologna 1566** (Commandino), including the extracts from Pappus described as lemmata on the first book of the *Conics*, but omitting the two books of Serenus. Dedication by Nicolaus Buti to Giovanni Gaston (probably Gian Gastone de' Medici) dated at Pistoria on 23 September 1696.

References: USTC 1703748, 1721903.

Pistoria 1696a

SERENI PHILOSOPHI ANTINSENSIS LIBRI DUO, SERENISSIMO PRINCIPI JOANNI GASTONI AB ETRURIA DICATI; QUORUM UNUS DE SECTIONE CYLINDRI, ALTER DE SECTIONE CONI: Utrunque primus Federicus Commandinus Urbinas Latinum fecit, & commentariis illustravit; Omnia verò secundò, & emendatiùs quàm antea in lucem prodeunt.

Imprint: PISTORII MDCXCVI. Ex nova Typographia Stephani Gatti.

Quarto. Serenus, *On the section of a cylinder, On the section of a cone*. Both Latin, ed. Nicolaus Buti. Texts reprinted from **Bologna 1566** (Commandino); a companion to **Pistoria 1696**, with which it is often bound and catalogued. Dedication by Buti to Giovanni Gaston (probably Gian Gastone de' Medici) dated at Pistoria on 24 July 1696.

References: USTC 1703975.

Oxford 1699

Johannis Wallis S. T. D. Geometriæ Professoris SAVILIANI, in Celeberrima Academia OXONIENSI, OPERUM MATHEMATICORUM Volumen Tertium. QUO CONTINENTUR CLAUDII

PTOLEMÆI[,] PORPHYRII[,] MANUELIS BRYENNII Harmonica: ARCHIMEDIS Arenarius, & Dimensio Circuli; Cum EUTOCHII Commentario: ARISTARCHI SAMII, de Magnitudinibus & Distantiis Solis & Lunæ, Liber: PAPPI ALEXANDRINI, Libri Secundi Collectaneorum, hactenus desiderati, Fragmentum: Græce & Latine Edita, cum Notis. ACCEDUNT EPISTOLÆ nonnullæ, rem Mathematicam spectantes; ET OPUSCULA quædam MISCELLANEA.

Imprint: OXONIÆ, E THEATRO SHELDONIANO, An. Dom. MDCXCIX.

Quarto. Ptolemy, *Harmonics*; Porphyry, *Commentary on the Harmonics of Ptolemy*; Archimedes, *The sand reckoner, Measurement of a circle*; Eutocius, *Commentary on the Measurement of a circle of Archimedes*; Aristarchus, *On the sizes and distances of the Sun and Moon*. All Greek and Latin, ed. John Wallis. Also contains the *Harmonics* of Manuel Bryennius. Dedication by Wallis to William III of Great Britain, undated. Permission to print dated 13 March 1698/99. The Ptolemy texts are reprinted from **Oxford 1682** and retain the dedication to Charles II of Great Britain, dated on 1 January 1681/2; the texts of Archimedes and Eutocius are revised from the version of **Oxford 1676** (with a new preface by John Fell, and apparatus). The Greek text of Aristarchus (and the accompanying material from Pappus) is revised from **Oxford 1688** and the Latin (of Commandino) reprinted; there is a new epistle to the reader, by Wallis, dated 1 November 1687. The Porphyry and Bryennius texts are new, and this is the first printing of the Porphyry.

Sometimes catalogued with publication date 1693, the date of volume 1 of Wallis's *Opera mathematica*. Occasionally certain sections appear separately catalogued.

References: USTC 3137617. ESTC R219938 (set).

London 1701

Ptolemy's Quadripartite; OR, FOUR BOOKS CONCERNING The Influences of the Stars. Faithfully Render'd into English from LEO ALLACIUS, Library-Keeper to the Vatican in Rome; And Diligently

Compared with the Best of other Greek Copies and Latin Translations. To which is Added, Variety of Notes and Annotations Explaining the most Difficult and Obscure Passages in the whole Subject. And also an Appendix for the better Understanding of Ptolemy concerning Part of Fortune. By JOHN WHALLEY, Student in Astrology and Physick.

Imprint: LONDON: Printed for John Sprint, at the Bell in Little-Brittain.

Octavo. ps.-Proclus, *Commentary on the Tetrabiblos of Ptolemy*, English, ed. John Whalley. The first printing of this text in a modern language. Whalley appears to have translated from the Latin of **Leiden 1635/Leiden 1654** under the impression not just that this was not just a version of the *Tetrabiblos* itself, but that it was the first translation of that work into Latin.

Dedication by Whalley to John Partridge and Michael Cudmore, undated. Epistle to the reader by Whalley dated at Dublin on 15 September 1701.

References: ESTC T143305.

Antwerp 1703

DIONYSII PETAVII AURELIANENSIS, E SOCIETATE JESU, OPUS DE DOCTRINA TEMPORUM: IN QUO URANOLOGIUM SIVE SYSTEMA VARIORUM AUCTORUM, Qui de SPHÆRA AC SIDERIBUS eorūque motibus Græcè commentati sunt, quorum nomina post Præfationem leguntur. Omnia vel Græcè ac Latinè nunc primùm edita, vel antè non edita; ITEM VARIARUM DISSERTATIONUM LIBRI VIII. Accesserunt in hac NOVA EDITIONE EJUSDEM PETAVII ET JAC. SIRMONDI Dissertationes de Anno Synodi Sirmiensis & Fidei formulis in ea editis, PETAVII Lib. II. de Lege & Gratia, Elenchus Theriacæ Vincentii Lenis, Dissertatio de Adjutorio sine quo non, & Adjutorio quo, quæ in Dogmatibus Theologicis omissa fuerunt; AC DENIQUE EPISTOLARUM LIBRI TRES. TOMUS TERTIUS.

Imprint: ANTWERPLÆ, Apud GEORGIUM GALLET. M. DCCIII.

Folio. Geminus, *Introduction to the Phenomena*; Hipparchus, *Commentary on the Phaenomena of Eudoxus and Aratus*. Both Latin, ed. Dionysius Petavius (Denis Pétau). The third volume of Petavius' *De doctrina temporum*, with texts reprinted from **Paris 1630** and retaining the undated dedication to Richelieu.

References: None identified.

Appendix 1: Index of works and printings

This appendix provides, for each work in Table 2 (p. 14), a succinct list of all the printings listed within the bibliography, with their language(s) and editors where known. Bold denotes the first appearance of that work in the given language.

Alypius, *Introduction to music*

Leiden 1616, **Greek** (Meursius)

Amsterdam 1652, Greek and **Latin** (Meibom)

Anatolius, *Treatise on the time of the Paschal celebration*

Antwerp 1634b, **Latin** (Bucher)

Apollodorus, *On siege engines*

Paris 1693, **Greek** and **Latin** (Thévenot)

Apollonius, *Conics* (I–IV)

Venice 1537, **Latin** (Memo)

Bologna 1566, Latin (Commandino)

Paris 1626b, Latin (enunciations) (Mersenne)

Paris 1644, Latin (enunciations) (Mersenne)

Antwerp 1655, Latin (Richard)

Gotha 1669, Latin (Ravis)

London 1675, Latin (Barrow)

Paris 1685, Latin (enunciations) (de la Hire)

Pistoria 1696, Latin (Buti)

Apollonius, *Conics* (V–VII)

Florence 1661, **Latin** (Ecchellensis and Borelli)

Gotha 1669, Latin (Ravis)

Paris 1685, Latin (enunciations) (de la Hire)

ps.-Archimedes, *Book of lemmas*

London 1659, **Latin** (Graves and Foster)

Florence 1661, Latin (Ecchellensis and Borelli)

London 1675, Latin (Barrow)

Archimedes, *On conoids and spheroids*

- Basel 1544, **Greek** and **Latin** (Gechauff)
 Venice 1558, **Latin** (Commandino)
 Paris 1615, **Greek** and **Latin** (Rivault)
 Paris 1626a, **Latin** (enunciations) (Mersenne)
 Paris 1644, **Latin** (enunciations) (Mersenne)
 Nuremberg 1670, **German** (Sturm)
 London 1675, **Latin** (Barrow)
 Palermo 1685, **Latin** (Hesperius)
- Archimedes, *On the equilibrium of planes*
 Venice 1543, **Latin** (Tartaglia)
 Basel 1544, **Greek** and **Latin** (Gechauff)
 Geneva 1557, **Greek** and **Latin**
 Paris 1565a, **French** (I) (Forcadel)
 Paris 1615, **Greek** and **Latin** (Rivault)
 Paris 1624, **French**
 Paris 1626a, **Latin** (enunciations) (Mersenne)
 Paris 1644, **Latin** (enunciations) (Mersenne)
 Nuremberg 1670, **German** (Sturm)
 London 1675, **Latin** (Barrow)
 Palermo 1685, **Latin** (Hesperius)
- Archimedes, *On floating bodies*
 Venice 1543, **Latin** (Tartaglia)
 Venice 1551, **Italian** (I) (Tartaglia)
 Venice 1562b, **Italian** (I) (Tartaglia)
 Bologna 1565, **Latin** (Commandino)
 Venice 1565, **Latin** (I)
 Venice 1565a, **Latin** (II)
 Paris 1565, **French** (Forcadel)
 Venice 1606, **Italian** (I) (Tartaglia)
 Paris 1615, **Greek** and **Latin** (Rivault)
 Paris 1626a, **Latin** (enunciations) (Mersenne)
 Paris 1644, **Latin** (enunciations) (Mersenne)
 London 1661–65, **English** (Salusbury)
 London 1675, **Latin** (Barrow)
 Palermo 1685, **Latin** (Hesperius)

Archimedes, *Measurement of a circle*

- Venice 1503, **Latin** (Gaurico)
- Venice 1543, Latin (Tartaglia)
- Basel 1544, **Greek** and Latin (Gechauff)
- Venice 1558, Latin (Commandino)
- Paris 1561, Greek
- Würzburg 1597, Greek and Latin (Roomen)
- Leipzig 1601, Latin (Meurer)
- Paris 1615, Greek and Latin (Rivault)
- Paris 1626a, Latin (enunciations) (Mersenne)
- Paris 1644, Latin (enunciations) (Mersenne)
- Nuremberg 1670, **German** (Sturm)
- London 1675, Latin (Barrow)
- Oxford 1676, Greek and Latin (Wallis)
- Palermo 1685, Latin (Hesperius)
- Oxford 1699, Greek and Latin (Wallis)

Archimedes, *Quadrature of the parabola*

- Venice 1503, **Latin** (Gaurico)
- Venice 1543, Latin (Tartaglia)
- Basel 1544, **Greek** and Latin (Gechauff)
- Venice 1558, Latin (Commandino)
- Paris 1615, Greek and Latin (Rivault)
- Paris 1626a, Latin (enunciations) (Mersenne)
- Paris 1644, Latin (enunciations) (Mersenne)
- Nuremberg 1670, **German** (Sturm)
- London 1675, Latin (Barrow)
- Palermo 1685, Latin (Hesperius)

Archimedes, *The sand reckoner*

- Basel 1544, **Greek** and **Latin** (Gechauff)
- Paris 1557d, Latin (Du Hamel)
- Venice 1558, Latin (Commandino)
- Paris 1615, Greek and Latin (Rivault)
- Paris 1626a, Latin (enunciations) (Mersenne)
- Paris 1644, Latin (enunciations) (Mersenne)
- Nuremberg 1667, **German** (Sturm)

- London 1675, Latin (Barrow)
 Oxford 1676, Greek and Latin (Wallis)
 Palermo 1685, Latin (Hesperius)
 Oxford 1699, Greek and Latin (Wallis)
- Archimedes, *On the sphere and cylinder*
 Basel 1544, **Greek** and **Latin** (Gechauff)
 Venice 1560, **Italian** (Tartaglia)
 Paris 1561, Greek
 Paris 1615, Greek and Latin (Rivault)
 Paris 1624, **French**
 Paris 1626a, Latin (enunciations) (Mersenne)
 Paris 1644, Latin (enunciations) (Mersenne)
 Nuremberg 1670, **German** (Sturm)
 London 1675, Latin (Barrow)
 Palermo 1685, Latin (Hesperius)
- Archimedes, *On spirals*
 Basel 1544, **Greek** and **Latin** (Gechauff)
 Venice 1558, Latin (Commandino)
 Paris 1615, Greek and Latin (Rivault)
 Paris 1626a, Latin (enunciations) (Mersenne)
 Paris 1644, Latin (enunciations) (Mersenne)
 Nuremberg 1670, **German** (Sturm)
 London 1675, Latin (Barrow)
 Palermo 1685, Latin (Hesperius)
- Aristarchus, *On the sizes and distances of the Sun and Moon*
 Venice 1498, **Latin** (Valla)
 Pesaro 1572, Latin (Commandino)
 Oxford 1688, **Greek** and Latin (Wallis)
 Oxford 1699, Greek and Latin (Wallis)
- Aristides Quintilian, *On music*
 Amsterdam 1652, **Greek** and **Latin** (Meibom)
- Aristoxenus, *Elements of harmonics*
 Venice 1562, **Latin** (Gogava)
 Leiden 1616, **Greek** (Meursius)
 Amsterdam 1652, Greek and Latin (Meibom)

- Athenaeus, *On machines*
 Paris 1693, **Greek** and **Latin** (Thévenot)
- Autolycus, *On the moving sphere*
 Messina 1558, **Latin** (Maurolico)
 Paris 1572, **French** (Forcadel)
 Rome 1587, **Latin** (Auria)
 Strasbourg 1572, **Greek** and **Latin** (enunciations) (Dasypodius)
 Paris 1626, **Latin** (enunciations) (Mersenne)
 Paris 1644, **Latin** (enunciations) (Mersenne)
- Autolycus, *On risings and settings of the stars*
 Paris 1572, **French** (Forcadel)
 Strasbourg 1572, **Greek** and **Latin** (enunciations) (Dasypodius)
 Rome 1588, **Latin** (Auria)
- Bacchius, *Introduction to the art of music*
 Paris 1623, **Greek** and **Latin** (Morel)
 Paris 1623a, **Latin** (Mersenne)
 Amsterdam 1652, **Greek** and **Latin** (Meibom)
- Biton, *Construction of war machines and catapults*
 Paris 1693, **Greek** and **Latin** (Thévenot)
- Cleomedes, *On the circular motions of the celestial bodies*
 Brescia 1497, **Latin** (Valgulius)
 Venice 1498, **Latin** (Valla)
 Basel 1533a, **Latin**
 Paris 1539, **Greek**
 Basel 1547, **Greek** and **Latin** (Hopper)
 Paris 1547, **Latin**
 Antwerp 1553, **Greek** and **Latin** (Hopper)
 Basel 1561, **Greek** and **Latin** (Hopper)
 Bordeaux 1605, **Greek** and **Latin** (Balfour)
- Cleonides, *Introduction to harmonics*
 Venice 1497, **Latin** (Valla)
 Venice 1498, **Latin** (Valla)
For subsequent editions attributed to Euclid see EiP.
- Diophantus, *Arithmetic*
 Basel 1575, **Latin** (Xylander)

- Leiden 1585, **French** (I–IV) (Stevin)
 Paris 1621, **Greek** and Latin (Bachet)
 Leiden 1625, **French** (Stevin and Girard)
 Leiden 1634, French (Stevin and Girard)
 Heusden 1654, **Dutch** (I) (van der Huips)
 Paris 1660, Latin (de Billy)
 Amsterdam 1661, Dutch (I) (van der Huips)
 Toulouse 1670, Greek and Latin (de Fermat)
 Oxford 1677, Latin (I–III: enunciations), (Oughtred)
- Diophantus, *On polygonal numbers*
 Paris 1621, **Greek** and **Latin** (Bachet)
 Toulouse 1670, Greek and Latin (de Fermat)
- Eutocius, *Commentary on the Equilibrium of planes of Archimedes*
 Basel 1544, **Greek** and **Latin** (Gechauff)
- Eutocius, *Commentary on the first four books of the Conics of Apollonius*
 Bologna 1566, **Latin** (Commandino)
 Pistoria 1696, Latin (Buti)
- Eutocius, *Commentary on the Measurement of a circle of Archimedes*
 Basel 1544, **Greek** and **Latin** (Gechauff)
 Oxford 1676, Greek and Latin (Wallis)
 Oxford 1699, Greek and Latin (Wallis)
- Eutocius, *Commentary on the Sphere and cylinder of Archimedes*
 Basel 1544, **Greek** and **Latin** (Gechauff)
- Gaudentius, *Harmonic introduction*
 Amsterdam 1652, **Greek** and **Latin** (Meibom)
- Geminus, *Introduction to the Phenomena*
 Altdorf 1590, **Greek** and **Latin** (Hildericus)
 Leiden 1603, Greek and Latin (Hildericus)
 Paris 1630, Greek and Latin (Petavius)
 Antwerp 1703, Latin (Petavius)
- Heliodorus, *Optics*
 Florence 1573, **Greek**, **Latin** and **Italian** (Danti)
 Hamburg 1610, Greek and Latin
 Paris 1657, Greek and Latin (Bartholin)
 Cambridge 1671, Greek and Latin (Gale)

Hero, *Automata*

Venice 1589a, **Italian** (Baldi)

Venice 1601, **Italian** (Baldi)

Paris 1693, **Greek and Latin** (Thévenot)

Hero, *Catapults*

Paris 1693, **Greek and Latin** (Thévenot)

ps.-Hero, *Definitions*

Strasbourg 1570, **Greek and Latin** (Dasypodius)

Strasbourg 1571, **Greek and Latin** (Dasypodius)

Strasbourg 1579, **Latin** (Dasypodius)

Hero, *Geodesia*

Venice 1572, **Latin** (Barozzi)

Hero, *Measures*

Paris 1688, **Greek and Latin** (extracts) (anonymous)

Hero, *Mechanics*

Strasbourg 1580, **Latin** (Dasypodius)

Hero, *Pneumatics*

Urbino 1575, **Latin** (Commandino)

Paris 1583, **Latin** (Commandino)

Ferrara 1589, **Italian** (Aleotti)

Urbino 1592, **Italian** (Giorgi)

Bologna 1647, **Italian** (Aleotti)

Amsterdam 1680, **Latin** (Commandino)

Bamberg 1688, **German** (Carion)

Frankfurt 1688, **German** (Carion)

Frankfurt 1693, **German** (Carion)

Paris 1693, **Greek and Latin** (Thévenot)

Hero, *War machines*

Venice 1572, **Latin** (Barozzi)

Augsburg 1616, **Greek and Latin** (Baldi)

Paris 1693, **Greek and Latin** (Thévenot)

Hipparchus, *Commentary on the Phaenomena of Eudoxus and Aratus*

Florence 1567, **Greek and Latin** (Vettori)

Paris 1630, **Greek and Latin** (Petavius)

Antwerp 1703, **Latin** (Petavius)

- Hypsicles, *On ascensions*
 Paris 1657, **Greek** and **Latin** (Bartholin)
- Menelaus, *Spherics*
 Messina 1558, **Latin** (Maurolico)
 Paris 1626, Latin (enunciations) (Mersenne)
 Paris 1626c, Latin (enunciations) (Mersenne)
 Paris 1644, Latin (enunciations) (Mersenne)
- Nicomachus, *Introduction to arithmetic*
 Paris 1538, **Greek** (?Wechel)
- Nicomachus, *Manual of harmonics*
 Leiden 1616, **Greek** (Meursius)
 Amsterdam 1652, Greek and **Latin** (Meibom)
- Pappus, *Collection* (III–VIII)
 Pesaro 1588, **Latin** (Commandino)
 Venice 1588, Latin (Commandino)
 Venice 1589, Latin (Commandino)
 Pesaro 1602, Latin (Commandino)
 Paris 1644, Latin ('abbreviati') (Mersenne)
 Bologna 1660, Latin (Manolesi)
- Philo of Byzantium, *Siege engine construction*
 Paris 1693, **Greek** and **Latin** (Thévenot)
- Porphyry, *Commentary on the Harmonics of Ptolemy*
 Oxford 1699, **Greek** and **Latin** (Wallis)
- Porphyry, *Introduction to the Tetrabiblos of Ptolemy*
 Basel 1559, **Greek** and **Latin**
- ps.-Proclus, *On the astrolabe*
 Venice 1498, **Latin** (Valla)
 Paris 1546a, Latin (Poblacion)
 Paris 1553a, Latin (Poblacion)
 Paris 1554, Latin (Poblacion)
 Paris 1556c, Latin (Poblacion)
 Paris 1557b, Latin (Poblacion)
- Proclus, *Commentary on the Elements of Euclid* (I)
 Basel 1533, **Greek** (Grynaeus)
 Padua 1560, **Latin** (Barozzi)

ps.-Proclus, *Commentary on the Tetrabiblos of Ptolemy*

Basel 1554, **Greek** (Melanchthon)

Leiden 1635, Greek and **Latin** (Allacci)

Leiden 1654, Greek and Latin (Allacci)

London 1701, **English** (Whalley)

Proclus, *Exposition of Astronomical Hypotheses*

Basel 1540a, **Greek** (Grynaeus)

Basel 1541, **Latin** (Gemusaeus)

Basel 1551, Latin (Schreckenfuchs)

ps.-Proclus, *On the sphere*

Venice 1499, **Greek** and **Latin** (Manutius)

Wittenberg 1502, Latin

Leipzig 1503, Latin

Venice 1503a, Greek and Latin (Manutius)

Vienna 1511, Latin (Tannstetter)

Kraków 1512, Latin (?Ungler)

Paris 1516, Greek and Latin (Gourmont)

London 1522, Latin

Basel 1523, Greek and Latin (Ceporinus)

Speyer 1524, Latin (?Schmidt)

Bologna 1525, Latin (Vitalis)

s. l. c. 1530, Latin

Paris 1531, Latin (Wechel)

Basel 1534, Greek and Latin

Paris 1534, Latin

Basel 1535, Greek and Latin (Micyllus)

Cologne 1535, Latin

Basel 1536, Greek and Latin (Ziegler)

Paris 1536, Greek

Wittenberg 1538, Latin

Strasbourg 1539, Greek and Latin

s. l. c. 1540, Latin

Paris 1542, Greek

Cologne 1543, Greek

Leipzig 1543, Latin

Paris 1543, Latin (Vinet)
Paris 1543a, Greek and Latin (Toussain)
Paris 1544, Latin
Basel 1547, Greek and Latin (Hopper)
Paris 1547a, Greek and Latin (Toussain)
Paris 1547b, Latin
Paris 1547c, Latin
Basel 1549, Greek and Latin (Micyllus)
Marburg 1549, Latin
London 1550, **English** (Salisbury)
Antwerp 1553, Greek and Latin (Hopper)
Bordeaux 1553, Latin (Vinet)
London 1553, English (Salisbury)
Paris 1553, Greek and Latin (Vinet)
Paris 1553b, Latin
Dortmund 1554, Greek and Latin (Sartorius)
Louvain 1554, Greek
Paris 1556b, Latin
Venice 1556, **Italian** (Scandianese)
Wittenberg 1556, Latin (verse) (Rakocius)
Paris 1557a, Greek
Paris 1557c, Latin (Vinet)
Paris 1560a, Greek and Latin
Paris 1560b, Latin
Basel 1561, Greek and Latin (Hopper)
Paris 1562, Latin
Padua 1565, Latin and Italian (Catena)
Poitiers 1567, Latin
Basel 1570, Greek and Latin (Micyllus)
Florence 1573a, Italian (Danti)
Paris 1573, **French** (Vinet)
Augsburg 1575, Greek and Latin (Henisch)
Paris 1578, Greek and Latin (Micyllus)
Breslau 1579, Greek and Latin
Basel 1582, Greek and Latin (Micyllus)

- Leipzig 1584, Latin
 Basel 1585, Greek and Latin (Hopper)
 Basel 1585, Greek and Latin (Hopper)
 Heidelberg 1589, Greek and Latin
 Wittenberg 1591, Greek and Latin
 Tournon 1592, Latin (Michel)
 Leiden 1593, Greek and Latin
 Wittenberg 1597, Greek and Latin
 Leipzig 1600, Latin
 Geneva 1608, Greek and Latin
 Lyon 1608, Greek and Latin
 Augsburg 1609, Greek and Latin (Henisch)
 Rostock 1611, Greek and Latin (Lauremberg)
 London 1620, Greek and Latin (Bainbridge)
 Sedan 1629, Greek
 Helmstedt 1638, Latin
 Helmstadt 1661, Latin
 Ptolemy, *Almagest*
 Venice 1515, **Latin**
 Venice 1528, Latin (Gaurico)
 Cologne 1537, Latin (VII–VIII)
 Basel 1538, **Greek** (Grynaeus)
 Basel 1541, Latin (Gemusaeus)
 Basel 1551, Latin (Schreckenfuchs)
 Wittenberg 1549, Greek and Latin (I) (Rheinhold)
 Paris 1556, Latin (I) (Rheinhold)
 Paris 1556a, Latin (II) (Gracilis)
 Paris 1557, Latin (I) (Rheinhold)
 Paris 1560, Latin (I) (Rheinhold)
 Wittenberg 1569, Greek and Latin (I) (Rheinhold)
 Naples 1605, Latin (I) (della Porta)
 Ptolemy, *Analemma*
 Rome 1562, **Latin** (Commandino)
 Ptolemy, *Canobic inscription*
 Paris 1663, **Greek** and **Latin** (Boulliau)

ps.-Ptolemy, *Catoptrics*

Venice 1518, **Latin**

Venice 1518a, Latin

ps.-Ptolemy, *Centiloquium*

Venice 1484, **Latin** (Ratdolt)

Venice 1493, Latin (Faventinus)

Naples 1512, Latin (Pontano)

Venice 1519, Latin (Pontano)

Venice 1519a, Latin (Faventinus)

Florence 1520, Latin (Pontano)

Basel 1531, Latin (Pontano)

Basel 1533c, Latin (Pruckner)

Nuremberg 1535, **Greek** and Latin (Camerarius)

Basel 1538a, Latin (Pontano)

Basel 1540b, Latin (Pontano)

Rome 1540, Latin (Gaurico)

Basel 1541, Latin (Gemusaeus)

Cologne 1544, Latin (Curio)

Basel 1550, Latin (Prucknerus)

Basel 1551, Latin (Schreckenfuchs)

Basel 1551a, Latin (Prucknerus)

Paris 1552, Latin (Florentinus)

Basel 1553, Greek and Latin (Melanchthon)

Basel 1566, Latin

Lyon 1581, Greek and Latin (Junctinus)

Lyon 1583, Greek and Latin (Junctinus)

Prague 1610, Latin (van Brecht)

Frankfurt 1611, Latin (van Brecht)

Frankfurt 1622, Latin (van Brecht)

Ulm 1641, Latin

Perugia 1646, Latin (van Brecht)

Paris 1651, **French** (de Bourdin)

Padua 1658, Latin (de Titis)

Ulm 1674, Latin

Ptolemy, *On the criterion and hegemonikon*

The Hague 1663, **Latin** (Boulliau)
 Paris 1663, **Greek** and Latin (Boulliau)
 Ptolemy, *Geography*
 Vicenza 1475, **Latin** (Vadius and Picardus)
 Bologna 1477, Latin (Vadius)
 Rome 1478, Latin (Calderino)
 Florence c. 1482, **Italian** (verse) (I–VII) (Berlinghieri)
 Ulm 1482, Latin (Germanus)
 Ulm 1486, Latin (Germanus)
 Rome 1490, Latin (Germanus)
 Rome 1507, Latin (Beneventano and Cotta)
 Rome 1508, Latin (Beneventano and Cotta)
 Venice 1511, Latin (Sylvanus)
 Strasbourg 1513, Latin (Aeszler and Übelin)
 Nuremberg 1514, Latin (I) (Verner)
 Strasbourg 1520, Latin (Lilius)
 Strasbourg 1522, Latin (Phrisius)
 Strasbourg 1525, Latin (Pirckheimer)
 Basel 1533b, **Greek** and Latin (Erasmus)
 Lyon 1535, Latin (Villanovano)
 Lisbon 1537, **Portuguese** (I) (Nuñes)
 Basel 1540, Latin (Münster)
 Cologne 1540, Latin (Noviomagus)
 Lyon 1541, Latin (Villanovano)
 Basel 1542, Latin (Münster)
 Basel 1545, Latin (Münster)
 Paris 1546, **Greek** (Erasmus)
 Venice 1548, **Italian** (Gastaldo and Mattiolo)
 Basel 1552, Latin (Münster)
 Venice 1561, **Italian** (Ruscelli)
 Venice 1562a, Latin (Moletius)
 Venice 1564, Latin (Moletius)
 Venice 1564a, **Italian** (Ruscelli)
 Venice 1574, **Italian** (Malombra)
 Cologne 1584, Latin (Mylius)

- Venice 1596, Latin (Magini)
- Cologne 1597, Latin (Magini)
- Venice 1598, Italian (Cernoti)
- Venice 1598a, Italian (Rosaccio)
- Venice 1599, Italian (Ruscelli and Rosaccio)
- Amsterdam and Frankfurt 1605, Greek and Latin (Montanus)
- Cologne 1608, Latin (Magini)
- Arnhem 1617, Latin (Ens)
- Leiden 1618, Greek and Latin (Bertius)
- Padua 1621, Italian (Cernoti)
- Ptolemy, *Harmonics*
 - Venice 1562, **Latin** (Gogava)
 - Oxford 1682, **Greek** and Latin (Wallis)
 - Oxford 1699, Greek and Latin (Wallis)
- ps.-Ptolemy, *Iudicia*
 - Venice 1509, **Latin** (Liechtenstein)
- ps.-Ptolemy, *Liber proiectionis*
 - Venice 1484, **Latin** (Ratdolt)
 - Venice 1493, Latin (Faventinus)
 - Venice 1519a, Latin (Faventinus)
- Ptolemy, *Planetary hypotheses*
 - London 1620, **Greek** and **Latin** (Bainbridge)
- Ptolemy, *Planisphere*
 - Rome 1507, **Latin** (Beneventano)
 - Rome 1508, Latin (Beneventano)
 - Basel 1536, Latin (Ziegler)
 - Venice 1558a, Latin (Commandino)
 - Bologna 1572, **Italian** (Bottrigari)
- Ptolemy, *Tetrabiblos*
 - Venice 1484, **Latin** (Ratdolt)
 - Venice 1493, Latin (Faventinus)
 - Paris 1519, Latin (Sieurreus)
 - Venice 1519a, Latin (Faventinus)
 - Basel 1533c, Latin (Pruckner)
 - Nuremberg 1535, **Greek** and Latin (Camerarius)

- Basel 1541, Latin (Gemusaeus)
 Louvain 1548, Latin (Gogava)
 Basel 1551, Latin (Schreckenfuchs)
 Basel 1551a, Latin (Prucknerus)
 Basel 1553, Greek and Latin (Melanchthon)
 Basel 1554a, Latin (Cardano)
 Lyon 1555, Latin (Cardano)
 Basel 1578, Latin (Cardano)
 Lyon 1581, Greek and Latin (I–II) (Junctinus)
 Lyon 1583, Greek and Latin (I–II) (Junctinus)
 Prague 1610, Latin (van Brecht)
 Frankfurt 1611, Latin (van Brecht)
 Frankfurt 1622, Latin (van Brecht)
 Paris 1640, **French** (de Bourdin)
 Perugia 1646, Latin (van Brecht)
 Padua 1658, Latin (de Titis)
 Lyon 1663, Latin (Spon)
- Serenus, *On the section of a cone*
 Bologna 1566, **Latin** (Commandino)
 Naples 1584, Latin
 Pistoria 1696a, Latin (Buti)
- Serenus, *On the section of a cylinder*
 Bologna 1566, **Latin** (Commandino)
 Paris 1626b, Latin (enunciations) (Mersenne)
 Paris 1644, Latin (enunciations) (Mersenne)
 Pistoria 1696a, Latin (Buti)
- Theodosius, *On days and nights*
 Rome 1591, **Latin** (Auria)
 Strasbourg 1572, **Greek** and Latin (enunciations) (Dasypodius)
- Theodosius, *On habitations*
 Messina 1558, **Latin** (Maurolico)
 Paris 1572, **French** (Forcadel)
 Strasbourg 1572, **Greek** and Latin (enunciations) (Dasypodius)
 Rome 1587, Latin (Auria)
 Paris 1626, Latin (enunciations) (Mersenne)

- Paris 1626c, Latin (enunciations) (Mersenne)
- Paris 1644, Latin (enunciations) (Mersenne)
- Theodosius, *Spherics*
- Venice 1518, **Latin**
- Venice 1518a, Latin
- Vienna 1529, Latin (Vögelin)
- Messina 1558, Latin (Maurolico)
- Paris 1558, **Greek** and Latin (Pena)
- Strasbourg 1572, Greek and Latin (enunciations) (Dasypodius)
- Rome 1586, Latin (Clavius)
- Mainz 1612, Latin (Clavius)
- Paris 1615a, **French** (Henrion)
- Paris 1637, Latin and French (Hérigone)
- Paris 1626, Latin (enunciations) (Mersenne)
- Paris 1626c, Latin (enunciations) (Mersenne)
- Paris 1644, Latin (enunciations) (Mersenne)
- Paris 1644b, Latin and French (Hérigone)
- Cambridge 1665, Latin (Fournier)
- London 1675, Latin (Barrow)
- Theon of Alexandria, *Commentary on the Almagest of Ptolemy* (I)
- Naples 1605, **Latin** (della Porta)
- Theon of Alexandria, *Commentary on the Phenomena of Aratus*
- Venice 1499, **Greek** (Manutius)
- Venice 1503a, Greek (Manutius)
- Theon of Smyrna, *On mathematics useful for the understanding of Plato*
- Paris 1644a, **Greek** and **Latin** (Boulliau)

Appendix 2: Early modern editors

As a convenience, this appendix provides an index of the early modern editors and translators identified in the main bibliography: for each individual the bibliography entries with which he is associated are listed, with the texts included and the languages involved. It is to be understood (a) that the relationship of the individuals named to the texts in question varies very widely, (b) that editions for which no editor is identified explicitly or implicitly in the bibliography do not appear here and (c) that contributions other than editorial or translation work (such as authorship of a dedication) are not reported.

Aeszler, Jacobus: Strasbourg 1513/Strasbourg 1520 (with Georg Übelin). Ptolemy, *Geography*, Latin.

Aleotti, Giovan Battista: Ferrara 1589/Bologna 1647. Hero, *Pneumatics*, Italian.

Allacci, Leone (Allatius): Leiden 1635/Leiden 1654. ps.-Proclus, *Commentary on the Tetrabiblos of Ptolemy*, Greek and Latin. (English translation in London 1701).

Allatius, Leone: *see* Allacci, Leone.

Anonymous (a Benedictine monk of the congregation of St. Maur): Paris 1688. Hero, *Measures* (extracts), Greek and Latin.

Auria, Joseph: Rome 1587. Autolycus, *On the moving sphere*; Theodosius, *On habitations*; both Latin.

— Rome 1588. Autolycus, *On risings and settings of the stars*, Latin.

— Rome 1591. Theodosius, *On days and nights*, Latin.

Bachet, Claude Gaspare: Paris 1621. Diophantus, *Arithmetic, On polygonal numbers*; both Greek and Latin. (Consulted for Leiden 1625; source for Toulouse 1670.)

Bainbridge, John: London 1620. ps.-Proclus, *On the sphere*; Ptolemy, *Planetary hypotheses*. Both Greek and Latin.

Baldi, Bernardino: Augsburg 1616. Hero, *War machines*, Greek and Latin.

- Venice 1589a/Venice 1601. Hero, *Automata*, Italian.
- Balfour, Robert: Bordeaux 1605. Cleomedes, *On the circular motions of the celestial bodies*, Greek and Latin.
- Barozzi, Francesco: Padua 1560. Proclus, *Commentary on the Elements of Euclid* (I), Latin.
- Venice 1572. Hero, *War machines, Geodesia*, both Latin.
- Barrow, Isaac: London 1675. Archimedes, *On the sphere and cylinder, Measurement of a circle, On spirals, On conoids and spheroids, On the equilibrium of planes, Quadrature of the parabola, On floating bodies, The sand reckoner*; ps.-Archimedes, *Book of lemmas*; Apollonius, *Conics* (I–IV); Theodosius, *Spherics*. All Latin.
- Bartholin, Rasmus: Paris 1657. Heliodorus, *Optics*; Hypsicles, *On ascensions*. Greek and Latin.
- Beneventano, Marco: Rome 1507/Rome 1508 (with Joannes Cotta Veronensis). Ptolemy, *Geography, Planisphere*, Latin.
- Berlinghieri, Francesco: Florence c. 1482. Ptolemy, *Geography* (I–VII), Italian (verse).
- Bertius, Petrus: Leiden 1618. Ptolemy, *Geography*, Greek and Latin.
- de Billy, Jacques: Paris 1660. Diophantus, *Arithmetic*, Latin.
- Borelli, Giovanni Alfonso: Florence 1661 (with Abraham Ecchelenensis (Ibrāhīm al-Haḳilānī)). Apollonius, *Conics* (V–VII); ps.-Archimedes, *Book of lemmas*, both Latin.
- Bottrigari, Ercole: Bologna 1572. Ptolemy, *Planisphere*, Italian.
- Boulliau, Ismaël (Bullialdus): Paris 1644a. Theon, *On mathematics useful for the understanding of Plato*, Greek and Latin.
- The Hague 1663. Ptolemy, *On the criterion and hegemonikon*, Latin.
- Paris 1663. Ptolemy, *On the criterion and hegemonikon; Canobic inscription*; Greek and Latin.
- de Bourdin, Nicolas: Paris 1640. Ptolemy, *Tetrabiblos*, French.
- Paris 1651. ps.-Ptolemy, *Centiloquium*, French.
- van Brecht, Jacob: Prague 1610/Frankfurt 1611/Frankfurt 1622/Perugia 1646. Ptolemy, *Tetrabiblos, Centiloquium* (sp.); both Latin.
- van Bronckhorst, Jan: *see* Noviomagus, Johannes.
- Bucher, Aegidius: Antwerp 1634b. Anatolius, *Treatise on the time of the Paschal celebration*, Latin.

- Bullialdus, Ismaël: *see* Boulliau, Ismaël.
- Buti, Nicolaus: Pistoria 1696. Apollonius, *Conics* (I–IV); Eutocius, *Commentary on the first four books of the Conics of Apollonius*; both Latin.
- Pistoria 1696a. Serenus, *On the section of a cylinder, On the section of a cone*. Both Latin.
- Calderino, Domizio: Rome 1478. Ptolemy, *Geography*, Latin.
- Camerarius, Joachim: Nuremberg 1535. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.), Greek and Latin. (Text used in Basel 1541, Basel 1551, Lyon 1581.)
- Cardano, Gerolamo: Basel 1554a/Lyon 1555/Basel 1578/Lyon 1663. Ptolemy, *Tetrabiblos*, Latin.
- Carion, Agathus (Tobias Nislen): Bamberg 1688/Frankfurt 1688/Frankfurt 1693. Hero, *Pneumatics*, German.
- Catena, Pietro: Padua 1565. ps.-Proclus, *On the sphere*, Latin and Italian.
- Ceporin, Jakob: *see* Ceporinus, Jacobus.
- Ceporinus, Jacobus (Jakob Ceporin): Basel 1523/Basel 1534/Cologne 1543/Paris 1547b: ps.-Proclus, *On the sphere*. Greek and Latin. (This text was a source for Paris 1534 and thus its descendants Paris 1536/Paris 1542/Paris 1543a/Paris 1544/Paris 1547b/Paris 1553b/Louvain 1554/Paris 1556b/Paris 1560a/Paris 1562; it was also reprinted, variously edited, in Basel 1535/Basel 1549/Basel 1570/Paris 1578/Basel 1582/Lyon 1608, Basel 1536, Wittenberg 1538, Strasbourg 1539, Basel 1547/Antwerp 1553, Padua 1565, Breslau 1579, Leipzig 1584, Heidelberg 1589, Wittenberg 1591 and Leipzig 1600. Its annotations appeared in Basel 1547.)
- Cernoti, Leonardo: Venice 1598/Padua 1621 (from the Latin of Giovanni Antonio Magini). Ptolemy, *Geography*, Italian.
- Clavius, Christoph: Rome 1586/Mainz 1612. Theodosius, *Spherics*, Latin.
- Collimitius: *see* Georgius Tannstetter Collimitius.
- Commandino, Federico: Venice 1558. Archimedes, *Measurement of a circle, On spirals, Quadrature of the parabola, On conoids and spheroids*,

- The sand reckoner*. Latin.
- Venice 1558a. Ptolemy, *Planisphere*, Latin.
 - Rome 1562. Ptolemy, *Analemma*, Latin.
 - Bologna 1565. Archimedes, *On floating bodies*, Latin.
 - Bologna 1566. Apollonius, *Conics* (I–IV); Eutocius, *Commentary on the first four books of the Conics of Apollonius*; Serenus, *On the section of a cylinder*, *On the section of a cone*; all Latin. (Text used in Naples 1584; reprinted in Pistoria 1696 and Pistoria 1696a.)
 - Pesaro 1572. Aristarchus, *On the sizes and distances of the Sun and Moon*, Latin. (Text used in Oxford 1688 and Oxford 1699.)
 - Urbino 1575/Paris 1583/Amsterdam 1680. Hero, *Pneumatics*, Latin. (Translated in Ferrara 1589, Urbino 1592 (probably) and Bamberg 1688/Frankfurt 1688/Frankfurt 1693.)
 - Naples 1584 (with Antonio Maria Gesualdo). Serenus, *On the section of a cone*, Latin.
 - Pesaro 1588/Venice 1588/Venice 1589/Pesaro 1602. Pappus, *Collection* (III–VIII), Latin. (Probably abridged in Paris 1644; revised in Bologna 1660.)
- Couture, D.: Possible contribution to Paris 1693; *see under* Thévenot, Melchisédech.
- Cotta Veronensis, Joannes (Giovanni Cotta): Rome 1507/Rome 1508 (with Marco Beneventano). Ptolemy, *Geography*, Latin.
- Cotta, Giovanni: *see* Cotta Veronensis, Joannes.
- Curio, Jakob: Cologne 1544. ps.-Ptolemy, *Centiloquium*, Latin.
- Danti, Ignazio: Florence 1573. Heliodorus, *Optics*, Greek, Latin and Italian. (Text used in Hamburg 1610 and Cambridge 1671.)
- Florence 1573a. ps.-Proclus, *On the sphere*, Italian.
- Dasypodius, Conrad: Strasbourg 1570/Strasbourg 1571/Strasbourg 1579. ps.-Hero, *Definitions*, Greek and Latin.
- Strasbourg 1572. Autolycus, *On risings and settings of the stars; On the moving sphere*; Theodosius, *On days and nights; On habitations; Spherics*; all enunciations-only, Greek and Latin.
 - Strasbourg 1580. Hero, *Mechanics*, Latin.
- Du Hamel, Pasquier (Pascal): Paris 1557d. Archimedes, *The sand reckoner*, Latin.

- Duhamel, Johannes Baptista: Cambridge 1665 (with George Fournier).
Theodosius, *Spherics*, Latin.
- Ecchellensis, Abraham (Ibrāhīm al-Haqilānī): Florence 1661 (with
Giovanni Alfonso Borelli). Apollonius, *Conics* (V–VII); ps.-
Archimedes, *Book of lemmas*, both Latin.
- Ens, Gaspar: Arnheim 1617. Ptolemy, *Geography*, Latin.
- Erasmus, Desiderius: Basel 1533b. Ptolemy, *Geography*, Greek and
Latin. (Translated in Cologne 1540.)
— Paris 1546. Ptolemy, *Geography*, Greek.
- Faventinus: *see* Salius Faventinus, Hieronymus.
- de Fermat, Samuel: Toulouse 1670. Diophantus, *Arithmetic, On polyg-
onal numbers*; both Greek and Latin. (With commentary by Pierre
de Fermat.)
- Ficino, Marsilio: Additions to Florence c. 1482 (Ptolemy, *Geography*
(I–VII), Italian (verse)).
- Florentinus, I. Floranus Reginaldus: Paris 1552. ps.-Ptolemy, *Centilo-
quium*, Latin.
- Forcadel, Pierre: Paris 1565. Archimedes, *On floating bodies*, French.
— Paris 1565a. Archimedes, *On the equilibrium of planes* (I), French.
— Paris 1572. Autolycus, *On the moving sphere; On risings and settings
of the stars*; Theodosius, *On habitations*. All French.
- Foster, Samuel: London 1659 (with John Graves). ps.-Archimedes,
Book of lemmas, Latin.
- Fournier, Georges: Cambridge 1665. Theodosius, *Spherics*, Latin.
- Fries, Lorenz: *see* Phrisius, Laurentius.
- Gale, T.: Cambridge 1671. Heliodorus, *Optics*, Greek and Latin.
- Garzarini: *see* Scandianese, Tito Giovanni.
- Gastaldo Piamontese, Iacopo: Venice 1548 (with Pietro Andrea Matti-
olo). Ptolemy, *Geography*, Italian.
- Gaurico, Luca: Venice 1503. Archimedes, *Measurement of a circle,
Quadrature of the parabola*, Latin.
— Venice 1528. Ptolemy, *Almagest*, Latin. (Text probably used in
Cologne 1537 and Basel 1541.)
— Rome 1540. ps.-Ptolemy, *Centiloquium*, Latin.

- Gechauff, Thomas (Thomas Venatorius): Basel 1544. Archimedes, *On the sphere and cylinder; Measurement of a circle; On conoids and spheroids; On spirals; On the equilibrium of planes; The sand reckoner; Quadrature of the parabola*. Eutocius, *Commentary on the Sphere and cylinder of Archimedes; Commentary on the Measurement of a circle of Archimedes; Commentary on the Equilibrium of planes of Archimedes*. Greek and Latin.
- Gemusaeus, Hieronymus: Basel 1541. Ptolemy, *Almagest; Tetrabiblos; Centiloquium* (sp.); Proclus, *Exposition of Astronomical Hypotheses*. Latin.
- Germanus, Nicolaus: Ulm 1482/Ulm 1486/Rome 1490. Ptolemy, *Geography*, Latin.
- Gesualdo, Antonio Maria: Naples 1584 (from the version of Federico Commandino). Serenus, *On the section of a cone*, Latin.
- Giglio, Gregorio Giraldi: *see* Lilius, Gregorius.
- Giorgi, Alessandro: Urbino 1592. Hero, *Pneumatics*, Italian.
- Girard, Albert: Leiden 1625/Leiden 1634 (with Simon Stevin). Diofantus, *Arithmetic*, French.
- Gogava, Antonio: Louvain 1548. Ptolemy, *Tetrabiblos*, Latin. (Text used in Padua 1658.)
- Venice 1562. Aristoxenus, *Elements of harmonics*; Ptolemy, *Harmonics*. Latin.
- de Gourmont, Gilles: Paris 1516. ps.-Proclus, *On the sphere*, Greek and Latin.
- Gracilis, Stephanus: Paris 1556a. Ptolemy, *Almagest* (II), Latin.
- Graves, John: London 1659 (with Samuel Foster). ps.-Archimedes, *Book of lemmas*, Latin.
- Grynaeus, Simon: Basel 1533. Proclus, *Commentary on the Elements of Euclid* (I), Greek.
- Basel 1538. Ptolemy, *Almagest*, Greek.
- Basel 1540a. Proclus, *Exposition of Astronomical Hypotheses*, Greek.
- al-Haḳīlānī, Ibrāhīm: *see* Ecchellensis, Abraham.
- Henisch, Georg: Augsburg 1575/Augsburg 1609. ps.-Proclus, *On the sphere*, Greek and Latin.
- Henrion, Denis: Paris 1615a. Theodosius, *Spherics*, French.

- Hérigone, Pierre: Paris 1637/Paris 1644b. Theodosius, *Spherics*, Latin and French.
- Hesperius, Cyllenius: Palermo 1685. Archimedes, *Measurement of a circle, On the sphere and cylinder, On the equilibrium of planes, Quadrature of the parabola, On spirals, On conoids and spheroids, The sand reckoner, On floating bodies*. All Latin.
- Hilderich, Edo: *see* Hildericus, Edo.
- Hildericus, Edo: Altdorf 1590/Leiden 1603. Geminus, *Introduction to the Phenomena*, Greek and Latin. (Text revised in Paris 1630.)
- de la Hire, Philippe: Paris 1685. Apollonius, *Conics* (I–VII: enunciations), Latin.
- Possible contribution to Paris 1693; *see under* Thévenot, Melchisédech.
- Holtzman, Wilhelm: *see* Xylander, Wilhelm.
- Hopper, Marcus: Basel 1547/Antwerp 1553/Basel 1561/Basel 1585. ps.-Proclus, *On the sphere*; Cleomedes, *On the circular motions of the celestial bodies*. Greek and Latin.
- van der Huips, Frans: Heusden 1654/Amsterdam 1661. Diophantus, *Arithmetic* (I), Dutch.
- Junctinus, Franciscus: Lyon 1581/Lyon 1583. Ptolemy, *Tetrabiblos* (I–II), *Centiloquium* (sp.), both Greek and Latin.
- Lauremberg, Johann: Rostock 1611. ps.-Proclus, *On the sphere*, Greek and Latin.
- Liechtenstein, Petrus: Venice 1509. ps.-Ptolemy, *Iudicia*, Latin.
- Venice 1515. Ptolemy, *Almagest*, Latin.
- Lilius, Gregorius (Gregorio Giraldi Giglio): Strasbourg 1520. Ptolemy, *Geography*, Latin.
- Linacre, Thomas: translator of the text of Proclus, *On the sphere* in Venice 1499/Venice 1503a, Wittenberg 1502, Leipzig 1503, Vienna 1511, Kraków 1512, Paris 1516, London 1522, Paris 1531, Cologne 1535, Marburg 1549, Dortmund 1554. That translation was a source for Bologna 1525; it was also a source for Basel 1523/Basel 1534 and its descendants Paris 1534, Basel 1535, Paris 1536 Basel 1536, Wittenberg 1538, Strasbourg 1539, Paris 1542, Cologne 1543 Leipzig 1543, Paris 1543a

- Paris 1544, Basel 1547, Paris 1547a, Paris 1547b, Basel 1549, Antwerp 1553, Paris 1553b, Louvain 1554, Paris 1556b, Paris 1560a, Paris 1560b, Basel 1561, Paris 1562, Padua 1565, Basel 1570, Paris 1578, Breslau 1579, Basel 1582, Leipzig 1584, Basel 1585, Heidelberg 1589, Wittenberg 1591, Leipzig 1600, Geneva 1608, Lyon 1608.
- Lupset, Thomas: London 1522 (uncertain; text of Thomas Linacre): Proclus, *On the sphere*, Latin.
- Magini, Giovanni Antonio: Venice 1596/Cologne 1597/Cologne 1608. Ptolemy, *Geography*, Latin. (Revised in Arnheim 1617; translated in Venice 1598/Padua 1621.)
- Malombra, Giovanni: Venice 1574. Ptolemy, *Geography*, Italian.
- Manolessi, Carlo: Bologna 1660: Pappus, *Collection* (III–VIII), Latin.
- Manutius, Aldus: Venice 1499/Venice 1503a. Theon of Alexandria, *Commentary on the Phenomena of Aratus*, Greek; ps.-Proclus, *On the sphere*, Greek and Latin.
- Mattiolo, Pietro Andrea: Venice 1548 (with Iacopo Gastaldo Piamontese). Ptolemy, *Geography*, Italian.
- Maurolico, Francesco: Messina 1558. Theodosius, *Spherics*; Menelaus, *Spherics*; Autolycus, *On the moving sphere*; Theodosius, *On habitations*. Latin. (Annotations used in Rome 1587; text used in Paris 1626 and Paris 1626c.)
- Palermo 1685 (ed. Cyllenius Hesperius). Archimedes, *On the sphere and cylinder*, *On the equilibrium of planes*, *Quadrature of the parabola*, *On spirals*, *On conoids and spheroids*. All Latin.
- Meibom, Marcus: Amsterdam 1652: Aristoxenus, *Elements of harmonics*; Nicomachus, *Manual of harmonics*; Alypius, *Introduction to music*; Gaudentius, *Harmonic introduction*; Bacchius, *Introduction to the art of music*; Aristides Quintilian, *On music*. All Greek and Latin.
- Melanchthon, Philip: Basel 1553. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.). Greek and Latin. (Text used in Prague 1610 and in Frankfurt 1611/Frankfurt 1622/Perugia 1646.)
- Basel 1554. ps.-Proclus, *Commentary on the Tetrabiblos of Ptolemy*, Greek.

- Memo, Giovanni Baptista: Venice 1537. Apollonius, *Conics* (I–IV), Latin.
- Mersenne, Marin: Paris 1623a. Bacchius, *Introduction to the art of music*, Latin.
- Mersenne, Marin: Paris 1626. Theodosius, *Spherics*, *On habitations*; Menelaus, *Spherics*; Autolycus, *On the moving sphere*. All enunciations-only, Latin.
- Paris 1626a. Archimedes, *On the sphere and cylinder*; *Measurement of a circle*; *On conoids and spheroids*; *Quadrature of the parabola*; *On spirals*; *On the equilibrium of planes*; *On floating bodies*; *The sand reckoner*. Enunciations only, Latin.
- Paris 1626b. Apollonius, *Conics* (I–IV); Serenus, *On the section of a cylinder*. Latin, enunciations only.
- Paris 1626c. Theodosius, *Spherics*; Menelaus, *Spherics*; Theodosius, *On habitations*. All Latin, enunciations only.
- Paris 1644. Archimedes, *On the sphere and cylinder*; *Measurement of a circle*; *On conoids and spheroids*; *Quadrature of the parabola*; *On spirals*; *On the equilibrium of planes*; *On floating bodies*; *The sand reckoner*; Theodosius, *Spherics*; *On habitations*; Menelaus, *Spherics*; Autolycus, *On the moving sphere*; Apollonius, *Conics* (I–IV); Serenus, *On the section of a cylinder*; Pappus, *Collection* ('abbreviati'). All enunciations only, Latin.
- Meurer, Christoph: Leipzig 1601. Archimedes, *Measurement of a circle*, Latin.
- van Meurs, Jan: *see* Meursius, Joannes.
- Meursius, Joannes (Jan van Meurs): Leiden 1616. Aristoxenus, *Elements of harmonics*; Nicomachus, *Manual of harmonics*; Alypius, *Introduction to music*. All Greek.
- Michel, Claude: Tournon 1592. ps.-Proclus, *On the sphere*, Latin.
- Micyllus, Jacob (Jakob Molsheym): Basel 1535/Basel 1549/Basel 1570/Paris 1578/Basel 1582. ps.-Proclus, *On the sphere*, Greek and Latin.
- Moletius, Josephus: Venice 1562a/Venice 1564. Ptolemy, *Geography*, Latin.
- Moletto, Giuseppe: *see* Moletius, Josephus.

- Molsheym, Jakob: *see* Micyllus, Jacob.
- Montanus, Petrus: Amsterdam and Frankfurt 1605. Ptolemy, *Geography*, Greek and Latin. (Text revised in Leiden 1618.)
- Morel, Frédéric: Paris 1623. Bacchius, *Introduction to the art of music*, Greek and Latin.
- Mylius, Arnold: Cologne 1584. Ptolemy, *Geography*, Latin. (Text used in Venice 1596 (possibly), Amsterdam and Frankfurt 1605 and Leiden 1618.)
- Münster, Sebastian: Basel 1540/Basel 1542/Basel 1545/Basel 1552. Ptolemy, *Geography*, Latin. (Text was a source for Venice 1548.)
- Nislen, Tobias: *see* Carion, Agathus.
- Noviomagus, Johannes (Jan van Bronckhorst): Cologne 1540. Ptolemy, *Geography*, Latin.
- Nuñez, Pedro: Lisbon 1537. Ptolemy, *Geography* (I), Portuguese.
- Oughtred, William: Oxford 1677. Diophantus, *Arithmetic* (I–III) (enunciations), Latin.
- Pena, Jean: Paris 1558. Theodosius, *Spherics*, Greek and Latin.
- Petavius, Dionysius (Denis Pétau): Paris 1630. Geminus, *Introduction to the Phenomena*; Hipparchus, *Commentary on the Phaenomena of Eudoxus and Aratus*. Both Greek and Latin.
- Antwerp 1703. Geminus, *Introduction to the Phenomena*; Hipparchus, *Commentary on the Phaenomena of Eudoxus and Aratus*. Latin only.
- Phrisius, Laurentius (Lorenz Fries): Strasbourg 1522. Ptolemy, *Geography*, Latin.
- Picardus, Barnabas: Vicenza 1475 (with Angelus Vadius). Ptolemy, *Geography*, Latin.
- Pirckheimer, Willibald: Strasbourg 1525. Ptolemy, *Geography*, Latin. (Text revised in Lyon 1535/Lyon 1541, Basel 1540/Basel 1542/Basel 1545/Basel 1552, Venice 1562a/Venice 1564 and Cologne 1584.)
- Poblacion, Johannes Martinus: Paris 1546a/Paris 1553a/Paris 1554/Paris 1556c/Paris 1557b. ps.-Proclus, *On the astrolabe*, Latin.

- Pontano, Giovanni (Joannes Jovianus Pontanus): Naples 1512/Venice 1519/Florence 1520/Basel 1531/Basel 1538a/Basel 1540b/Basel 1566. ps.-Ptolemy, *Centiloquium*, Latin (text incorporated into commentary). (Text extracted from commentary in Basel 1533c/Nuremberg 1535/Basel 1541/Basel 1551/Basel 1551a, Paris 1552, Basel 1553, Lyon 1581, Prague 1610/Frankfurt 1611/Frankfurt 1622/Perugia 1646 and Ulm 1641/Ulm 1674.)
- Pontanus, Joannes Jovianus: *see* Pontano, Giovanni.
- della Porta, Giambattista: Naples 1605. Ptolemy, *Almagest* (I); Theon, *Commentary on the Almagest of Ptolemy* (I); both Latin.
- Pruckner, Nicolaus (Nicolaus Prugener): Basel 1533c/Basel 1551a. Ptolemy, *Tetrabiblos*, *Centiloquium* (sp.), Latin.
- Basel 1550. ps.-Ptolemy, *Centiloquium*, Latin.
- Prugener, Nicolaus: *see* Pruckner, Nicolaus.
- Pétau, Denis: *see* Petavius, Dionysius.
- Rakocius, Martinus (Martin Rakovský): Wittenberg 1556. ps.-Proclus, *On the sphere*, Latin (verse).
- Rakovský, Martin: *see* Rakocius, Martinus.
- Ramus, Petrus: Paris 1561. Archimedes, *On the sphere and cylinder*, *Measurement of a circle*. Greek.
- Ratdolt, Erhard: Venice 1484. Ptolemy, *Tetrabiblos*, *Liber proiectionis*, *Centiloquium* (sp.), Latin.
- Ravis, Christian: Gotha 1669. Apollonius, *Conics* (I–VII), Latin.
- Rheinhold, Erasmus: Wittenberg 1549/Wittenberg 1569. Ptolemy, *Almagest* (I), Greek and Latin.
- Paris 1556/Paris 1557/Paris 1560. Ptolemy, *Almagest* (I), Latin.
- Richard, Claude: Antwerp 1655. Apollonius, *Conics* (I–IV), Latin. (Text used in Gotha 1669.)
- Rivault, David: Paris 1615. Archimedes, *On the sphere and cylinder*; *Measurement of a circle*; *On the equilibrium of planes*; *On conoids and spheroids*; *On spirals*; *Quadrature of the parabola*; *The sand reckoner*; *On floating bodies*. All Greek and Latin.
- Roomen, Adriaan: Würzburg 1597. Archimedes, *Measurement of a circle*, Greek and Latin.

- Rosaccio, Giuseppe: Venice 1598a/Venice 1599. Ptolemy, *Geography*, Italian.
- Ruscelli, Girolamo: Venice 1561/Venice 1564a. Ptolemy, *Geography*, Italian. (Text revised in Venice 1574 and Venice 1598a/Venice 1599.)
- Salio, Girolamo: *see* Salius Faventinus, Hieronymus.
- Salisbury, William: London 1550/London 1553. ps.-Proclus, *On the sphere*, English.
- Salius Faventinus, Hieronymus (Girolamo Salio): Venice 1493/Venice 1519a. Ptolemy, *Tetrabiblos*, *Liber proiectionis* (sp.), *Centiloquium* (sp.), Latin.
- Salisbury, Thomas: London 1661–65. Archimedes, *On floating bodies*, English.
- Sartorius, Albertus: Dortmund 1554. ps.-Proclus, *On the sphere*, Greek and Latin.
- Scandianese, Tito Giovanni (Garzarini): Venice 1556. ps.-Proclus, *On the sphere*, Italian.
- Schmidt, Jakob: Speyer 1524 (uncertain). ps.-Proclus, *On the sphere*, Latin.
- Schreckenfuchs, Erasmus Oswald: Basel 1551. Ptolemy, *Almagest*; *Tetrabiblos*; *Centiloquium* (sp.); Proclus, *Exposition of Astronomical Hypotheses*. Latin.
- Servetus: *see* Villanovano, Michael.
- Sieurreus, Joannes: Paris 1519. Ptolemy, *Tetrabiblos*, Latin.
- Spaccioli, Valerio: Pesaro 1588/Venice 1588/Venice 1589/Pesaro 1602 (the edition of Commandino, published posthumously). Pappus, *Collection* (III–VIII), Latin.
- Spon, Charles: Lyon 1663. Ptolemy, *Tetrabiblos*, Latin.
- Stevin, Simon: Leiden 1585. Diophantus, *Arithmetic* (I–IV), French.
- Stevin, Simon: Leiden 1625/Leiden 1634 (with Albert Girard). Diophantus, *Arithmetic*, French.
- Sturm, Johann Christoph: Nuremberg 1667. Archimedes, *The sand reckoner*, German.
- Nuremberg 1670. Archimedes, *On the sphere and cylinder*, *Measurement of a circle*, *On the equilibrium of planes*, *Quadrature of the*

- parabola, On conoids and spheroids, On spirals.* All German.
- Sylvanus, Bernardus: Venice 1511. Ptolemy, *Geography*, Latin.
- Tannstetter Collimitius, Georgius (Georg Tannstetter): Vienna 1511. ps.-Proclus, *On the sphere*, Latin.
- Tannstetter, Georg: *see* Georgius Tannstetter Collimitius.
- Tartaglia, Niccolò: Venice 1543. Archimedes, *On the equilibrium of planes, Quadrature of the parabola, Measurement of a circle, On floating bodies.* Latin.
- Venice 1551/Venice 1562b/Venice 1606. Archimedes, *On floating bodies* (I), Italian. (Translated in London 1661–65.)
- Venice 1560. Archimedes, *On the sphere and cylinder* (I), Italian.
- Thévenot, Melchisédech: Paris 1693. Athenaeus, *On machines*; Apollodorus, *On siege engines*; Philo of Byzantium, *Siege engine construction*; Biton, *Construction of war machines and catapults*; Hero, *Catapults, War machines, Pneumatics, Automata.* All Greek and Latin.
- Titi, Placido: *see* de Titis, Placidus.
- de Titis, Placidus (Placido Titi): Padua 1658. Ptolemy, *Tetrabiblos, Centiloquium* (sp.); both Latin.
- Toussain, Jacques: Paris 1543a/Paris 1547a. ps.-Proclus, *On the sphere*, Greek and Latin.
- Paris 1553b. ps.-Proclus, *On the sphere*, Latin.
- Paris 1557a. ps.-Proclus, *On the sphere*, Greek.
- Übelin, Georg: Strasbourg 1513 (with Jacobus Aeszler). Ptolemy, *Geography*, Latin.
- Ungler, Florian: Kraków 1512 (uncertain). ps.-Proclus, *On the sphere*, Latin.
- Vadius, Angelus: Vicenza 1475/Bologna 1477 (with Barnabas Picardus). Ptolemy, *Geography*, Latin.
- Valgulio, Carlo: *see* Valgulus, Charolus.
- Valgulus, Charolus (Carlo Valgulio): Brescia 1497. Cleomedes, *On the circular motions of the celestial bodies*, Latin.
- Valla, Giorgio: Venice 1497. Cleonides, *Introduction to harmonics*, Latin.
- Venice 1498. ps.-Proclus, *On the astrolabe*; Aristarchus, *On the sizes and distances of the Sun and Moon*; Cleonides, *Introduction to harmonics*; Cleomedes, *On the circular motions of the celestial*

- bodies*. Latin. (ps.-Proclus text reprinted in Paris 1546a/Paris 1553a/Paris 1554/Paris 1556c/Paris 1557b. Cleomedes text reprinted in Basel 1533a/Paris 1547/Antwerp 1553 and Basel 1547/Antwerp 1553/Basel 1561.)
- Basel 1541/Basel 1551. Proclus, *Exposition of Astronomical Hypotheses*, Latin.
- Venatorius, Thomas: *see* Gechauff, Thomas.
- Verner, Ioannes (Johannes Werner): Nuremberg 1514. Ptolemy, *Geography* (I), Latin.
- Veronensis: *see* Cotta Veronensis, Joannes.
- Vespucci, Bartolomeo: Venice 1518a (uncertain). Theodosius, *Spherics*; ps.-Ptolemy, *Catoptrics*, Latin.
- Vettori, Piero: Florence 1567. Hipparchus, *Commentary on the Phaenomena of Eudoxus and Aratus*, Greek and Latin.
- Villanovano, Michael (Servetus): Lyon 1535/Lyon 1541. Ptolemy, *Geography*, Latin.
- de Villeneuve, J. Boivin: Possible contribution to Paris 1693; *see under* Thévenot, Melchisédech.
- Vinet, Élie: Paris 1543/Paris 1547c/Bordeaux 1553/Paris 1557c/Poitiers 1567. ps.-Proclus, *On the sphere*, Latin.
- Paris 1553/Leiden 1593/Wittenberg 1597. ps.-Proclus, *On the sphere*, Greek and Latin.
- Paris 1573. ps.-Proclus, *On the sphere*, French.
- Vitale, Lodovico: *see* Vitalis, Ludovico.
- Vitalis, Ludovico (Lodovico Vitale): Bologna 1525. Proclus, *On the sphere*, Latin.
- Vögelin, Johannes: Vienna 1529. Theodosius, *Spherics*, Latin.
- Wallis, John: Oxford 1676. Archimedes, *The sand reckoner, Measurement of a circle*. Eutocius, *Commentary on the Measurement of a circle of Archimedes*. Greek and Latin.
- Oxford 1682. Ptolemy, *Harmonics*, Greek and Latin.
- Oxford 1688. Aristarchus, *On the sizes and distances of the Sun and Moon*, Greek and Latin.
- Oxford 1699. Ptolemy, *Harmonics*; Porphyry, *Commentary on the Harmonics of Ptolemy*; Archimedes, *The sand reckoner, Measurement*

of a circle; Eutocius, *Commentary on the Measurement of a circle of Archimedes*; Aristarchus, *On the sizes and distances of the Sun and Moon*. All Greek and Latin.

Wechel, Christian: Paris 1531. Proclus, *On the sphere*, Latin. (This text was a secondary source for Paris 1534 and thus its descendants Paris 1536/Paris 1542/Paris 1543a/Paris 1544/Paris 1547b/Paris 1553b/Louvain 1554/Paris 1556b/Paris 1560a/Paris 1562.)

Werner, Johannes: *see* Ioannes Verner.

Whalley, John: London 1701. ps.-Proclus, *Commentary on the Tetrabiblos of Ptolemy*, English.

Wolf, Hieronymus: Basel 1559. Porphyry, *Introduction to the Tetrabiblos of Ptolemy*, Greek and Latin.

Xylander, Wilhelm: Basel 1575. Diophantus, *Arithmetic*, Latin.

Ziegler, Jacob: Basel 1536. ps.-Proclus, *On the sphere*, Greek and Latin; Ptolemy, *Planisphere*, Latin.

Appendix 3: Non-editions

This appendix lists works which have come to my attention in the course of compiling this bibliography, usually because their titles or catalogue descriptions contain the name of one or more ancient mathematical authors, but which I believe do not qualify as editions of Greek mathematical texts in the sense outlined in the introduction.

As explained there, certain frequently printed works have been excluded from the bibliography on the grounds that they are fragments/excerpts rather than editions of complete works. Attention is drawn to these:

- the *Compost et kalendrier des bergiers* (Paris 1491 and many subsequent editions) and the *Compost of Ptholomeus* (London 1530 and subsequent editions);
- the ‘Inerrantium stellarum significationes’ of Ptolemy (Venice 1515 and many subsequent editions);
- the editions of the *Sphaera* of Sacrobosco which contain the excerpt ‘De eclipsibus’ of Proclus (Paris 1550 and many subsequent editions).

Most of the remaining items listed below fall into a small number of categories:

- non-ancient commentaries on Greek mathematical texts (note, though, that commentaries are included in the main bibliography if the commented text is printed in full), including historical dissertations on their authors;
- selections, re-workings and re-orderings of Greek mathematical texts (note that the mere provision of a new set of proofs does not bar a work from inclusion in the main bibliography);

- new mathematical work intended to extend, refute or defend a Greek mathematical text;
- reconstructions of lost Greek mathematical texts.

The boundaries between these categories are not always clear, and it seems most helpful to present a single list arranged by year of first (known) publication. Title and imprint are reported, with other information added in the notes which follow: this includes the identity of the editor where it is known, and also any known subsequent editions. It is stressed that this somewhat *ad hoc* list makes no claim to exhaustiveness, and in particular that the lists of subsequent editions are neither intended nor likely to be complete.

Works which use the name of an ancient mathematical author as a pseudonym outside a mathematical context, as for instance the 1598 *Philosophie civile et d'estat* by 'Archimedes', the 1688 *Epistola Archimedis ad regem Gelonem* (by Archibald Pitcairn) or the works by the 'Claudius Ptolemy' associated with the court of Henri II, are not included.

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Compost et kalendrier des bergiers (Paris: Marchant, 1491).

Drawn (mainly) from Ptolemy, *Tetrabiblos*. Subsequent editions Paris 1492, Paris 1493, Paris 1496, Paris 1497, Lyon 1499, Paris 1500, Geneva 1500, Lyon 1500, Rouen 1505, Troyes 1510, Rouen 1510, Paris 1513, Paris 1515, Lyon 1516, Paris 1516, Rouen 1516, Paris 1518, Paris 1523, Paris 1526, Troyes 1529, Paris 1547, Paris 1575, dates and places of imprint being in several cases conjectural. See also the English "compost of Ptholomeus" (London 1530).

Inuitatio lectoris in cosmographiam claudi ptolomei Alexandrini nouiter ideomate germano contextam incipit foeliciter. .

Ptolemy, *Cosmographia*, summary in German. Placed by some catalogues in Nuremberg, c. 1493, and attributed to Georg Stuchs.

Epytoma Joannis de Monte Regio in Almagestum Ptolomei (Venice: Joannes Hamman, 1496).

De expetendis et fugiendis rebus opus (Venice: Aldus, 1501).

By Giorgio Valla. Includes passages translated or paraphrased from Hero, Theodosius, ps.-Proclus (*i.e.* Geminus), Ptolemy and Cleomedes.

Commentationes. In Ptolomei quadripartitum inque Ciceronis partitiones & Tusculanas questiones ac Plinii Naturalis historie librum secundum (Venice: Bevilacqua, 1502).

Edited by Giorgio Valla.

Eutichi Augustini Niphi philophei Suessani Ad apotelesmata Ptolomaei eruditiones (Naples: De Richis, 1513).

Inerrantium Stellarum significationes (Venice, 1515).

Prefixed to an edition of Ovid's *Fasti*. The translation from Greek is attributed to Nicolaus Leonicus. The text appeared in similar contexts in many subsequent imprints, including Venice 1516, Strasbourg 1522, Florence 1525, Antwerp 1527, Venice 1531, Venice 1533, Basel 1534, Venice 1534, Wittenberg 1534 (the Ptolemaic text alone), Basel 1538, Hall 1539, Lyon 1539, Lyon 1541, Paris 1541, Basel 1542 (in a *Dictionarium Latinae linguae*), Lyon 1545, Lyon 1546, Lyon 1547, Basel 1548, Cologne 1548, Lyon 1550, Basel 1551, Lyon 1554, Cologne 1555, Antwerp 1558, Lyon 1558, Lyon 1559, Cologne 1560, Frankfurt 1563, Cologne 1564, Lyon 1564, Antwerp 1567, Lyon 1567, Basel 1568, Lyon 1573, Cologne 1576, Frankfurt 1579, Frankfurt 1582, Leipzig 1582, Rome 1586, Frankfurt 1587 Paris 1587, Venice 1587, Porrentruy 1594, Venice 1594, Rome 1596, Frankfurt 1599, Venice 1601, Bergerac 1613, Venice 1622, Venice 1625, Venice 1640, Venice 1646, Modena 1658, Venice 1658, Venice 1661, Venice 1665, Venice 1677, Venice 1682, Venice 1686.

Introductio in Ptolomei Cosmographiam cum longitudinibus & latitudinibus regionum & civitatum celebriorum (Craców: Hieronymus Victor, 1519).

Latin summary of parts of the *Geographia* by Joannes de Stobnicza.

Le traictie des Armilles, pour verifïer les estoilles, selon la tradition de Ptholemee, etc. La composition et principal vsaige du Meteoroscope de Ptholemee selon lopinion maistre Jehan de monte regio, etc (s. l. : 1528).

Here begynneth the compost of Ptholomeus, prynce of astronomye: translated oute of Frenche in to Englysshe, for them that wolde haue knowlege of the compost (London: Robert Wyer, 1530?).

English version of selections from the 1491 “compost et kalendrier des bergiers”. Several subsequent editions, catalogued with dates 1535, 1540, 1550, 1562, 1600, 1638: as with the first edition, all of these dates of printing seem to be conjectural.

In Procli Diadochi authoris grauissimi Sphaeram mundi, omnibus numeris longè absolutissimus commentarius. (Tübingen: Morhart, 1534).

By Johannes Stoeffler; commentary only.

Compendium in Sphaeram per Pierium Valerianum Bellunensem (Rome: Asulano, 1537).

Includes two passages attributed to Proclus, ‘De eclipsibus’ and ‘Super eclipsi lunae’, in Latin.

Praedictiones super omnibus futuris luminarium deliquiis (Rome: Asulano, 1539).

Main text by Luca Gaurico. Contains Proclus extract ‘De eclipsibus’ translated by Laurentius Miniatus; also contains excerpts from Ptolemy and Manilius.

Ioannis de Monte Regio et G. Purbachii Epitome, in ... Ptolemæi magnam compositionem, continens propositiones & annotationes, quibus totum Almagestum ... exponitur (Basel: Henricpetri, 1543).

Edited by Hieronymus Gemusæus.

Cur astrologorum iudicia plerumque fallant de antisciiis dialogus, in quo doctissime disputatur, quatenus credendum sit astrologiae Georgii trapezuntii

in Claudii ptolemaei centum aphorismos commentarius. (Cologne: Johann Gymnich, 1544).

By Giovanni Gioviano Pontano.

In C. Plinii de naturali historia lib. secundum commenta. (Cologne, 1550).

Contains a passage 'De Lactei circuli situ' from Ptolemy.

Sphaera Ioannis de Sacro Bosco, typis auctior, quam antehac, atq; ex diligeti manuscriptorum impressorumque codicum collatione castigata, cum annotationibus, quæ locis aliquot obscuris magnam lucem afferunt. Praemissa Philippi Melanchthonis doctiss. praefatione, qua utilitatem astrologicæ scientiæ, & Christiano homini non negligendam scitè probat. Adiunximus huic libro compendium in Sphæram, per Pierium Valerianum Bellunensem (Paris, 1550).

Includes Proclus passage on eclipses. That text was also included in printings in Paris 1551, Paris 1552, Paris 1556, Paris 1557, Paris 1558, Paris 1561, Paris 1562, Venice 1562, Lyon 1564, Paris 1564, Cologne 1566, Lyon 1567, Paris 1569, Venice 1569, Paris 1572, Antwerp 1573, Venice 1574, Lyon 1577, Paris 1577, Cologne 1581, Lyon 1581, Antwerp 1582, Paris 1584, Venice 1586, Cologne 1591, Bremen 1592, Cologne 1594, Cologne 1601, Lyon 1606, Paris 1608, Cologne 1610, Lyon 1617, Paris 1619, Venice 1620.

In Ptolemæi magnam compositionem, quam Almagestum vocant, libri tredecim, conscripti a Ioanne Regiomontano (Nuremberg: Montanus and Neuberus, 1550).

Regiomontanus' commentary on the *Almagest*.

Theoricae novae planetarum pluribus figuris auctae, et illustratae scholiis quibus studiosi praeparentur, ac invitentur ad lectionem ipsius Ptolemaei (Paris: Périer, 1553).

By Georg von Peurbach. Subsequent edition Paris 1556.

Be'ur 'inyan shene kavim she-zakhar ha-rav (Sabbioneta: Adelkind, 313 i.e. 1553).

By Moses ben Abraham Provençal. Contains commentary on a passage from Apollonius concerning parallel lines.

Des comettes et de leurs significances generales et particulieres, selon Ptolemee, Albumasar, Haly, Aliquind et autres astrologues (Paris: Guillaume Le Noir, 1556).

Subsequent edition 1587.

Aristotelis et Theophrasti scripta quaedam. (Paris: Stephanus, 1557).

Contains fragments attributed to Theophrastus, Aristotle, Sotionos and Athenaeus, and an *Εκ τοῦ περὶ μαθηματικῆς* attributed to Archytas.

De Graecis Latinisque numerorum notis. et praeterea sarracenica seu indicis, cum indicatione elementorum eius, quam logisticen Graeci nominant. (Nuremberg: Heller, 1557).

By Joachim Camerarius. Subsequent edition Wittenberg 1569.

De quadratura circuli libri II, ubi multorum quadraturae confutantur, et ab omnium impugnatione defenditur Archimedes (Lyon: Rouillé, 1559).

By Jean Borrel.

The three Orations of Demosthenes (London: Denham, 1570).

Translated by Sir Thomas Wilson. Contains ‘The bounding of Greece-lande according to Ptolomeus’, a short extract from the *Geographia*, which occasionally appears catalogued separately although it does not begin at the start of a page.

Vocabulario volgare, et latino, non solamente di tutte le voci italiane, ma ancora dei nomi moderni, & antichi delle provincie, città, monti et fiumi di tutte le parti del mondo tratti da Plinio, Tolomeo, Strabone, et altri buoni scrittori (Venice: Bevilacqua, 1573).

Contains geographical nomenclature derived from (modern editions of) Ptolemy’s *Geographia*.

De arte magna, seu de occulta parte numerorum, quae et algebra, et almucabala

vulgo dicitur, libri quatuor. In quibus explicantur aequationes Diophanti, regulae quantitatis simplicis, et quantitatis surdae (Paris: Beys, 1577).

By Guillaume Gosselin.

Tabulae geographicae Cl. Ptolemei ad mentem autoris restitutae et emendate per Gerardum Mercatorem (Cologne: von Kempen, 1578).

Maps and their annotations and indices only; contains no edition of the text of the *Geographia*.

Guidi Ubaldi e Marchionibus Montis in duos Archimedis aequponderatium libros paraphrasis scholiis illustrata (Pisauri, 1588).

Claudii Ptolemaei inerrantium stellarum apparitiones, ac significationum collectio (Urbino: Ragusius, 1592).

Edited by Federico Bonaventura. This incorporates the text frequently printed with editions of Ovid's *Fasti*, but adds substantial sections of prose at beginning and end, as well as related pieces from Columella and Pliny. Subsequent edition Venice 1594.

Il Patricio, ouero de' tetracordi armonici di Aristosseno. (Bologna: Benacci, 1593).

By Ercole Bottrigari: based on material in the *Harmonics* of Aristoxenus.

Anemologiae pars prior, id est De affectionibus, signis, causisque ventorum ex Aristotele, Theophrasto, ac Ptoletheo tractatus (Urbino: Ragusi, 1593).

By Federico Bonaventura. Subsequent edition (as *Meteorologicae affectiones*) Venice 1594.

Apollonius Gallus, seu, Exsuscitata Apollonii Pergaei ... Geometria. (Paris: Le Clerc, 1600).

Reconstruction by François Viète based on material from Pappus.

Nomenclator Ptolemaicus; omnia locorum vocabula quae in tota Ptolemaei Geographia occurrunt, continens (Antwerp, 1603).

Sometimes bound with the *Teatrum Orbis Terrarum* of Ortelius.

Descriptionis Ptolemaicae augmentum, sive Occidentis notitia breui commentario illustrata (Douai: Fabri, 1603).

Promotus Archimedis seu de variis corporum generibus gravitate & magnitudine comparatis (Roma: Zannetti, 1603).

By Marino Ghetaldi.

Quadratura parabolae per simplex falsum. Et altera quàm secunda Archimedis expeditior (Rome: Faci, 1606).

By Luca Valerio.

ΠΕΡΙ ΛΟΓΟΥ ΑΠΟΤΟΜΗΣ, καὶ ΠΕΡΙ ΧΩΡΙΟΥ ΑΠΟΤΟΜΗΣ
resuscitata geometria (Leiden: Plantin, 1607).

Reconstructions by Willebrord Snell of the lost works of Apollonius: *De sectione rationis* and *De sectione spatii*.

Apollonius redivivus, seu restitua Apollonii Pergaei Inclinationum geometria (Venice: Junta, 1607).

Reconstruction by Marino Ghetaldi.

Supplementum Apollonii Galli. Seu, Exsuscitata Apollonii Pergaei Tactionum Geometriae pars reliqua (Venice: Fiorina, 1607).

Response by Marino Ghetaldi to the 1600 *Apollonius Gallus* of Viète.

Apollonius Bataus, seu, exsuscitata Apollonii Pergaei Peri diorismenes tomes geometria (Leiden: Iohannes a Dorp, 1608).

Reconstruction by Willebrord Snell.

Consideratio Nova In Opusculum Archimedis De Circuli Dimensione: Ubi 1. Calculus Archimedis refellitur. 2. Calculo saniore ostenditur, ... 3. Verus circuli tetragonismus, (Dortmund: Westhoff, 1609).

By Thomas Brugmann.

Probabilis Investigatio Caussarum Physicarum, Aliarumque, Globi

Archimedaevi novi, (et) instrumenti musici, per se absq(ue) evidente motore mobilium (Coburg: Bertsch, 1612).

Dissertation by Peter Ziegler.

Supplementum Apollonii redivivi (Paris: Beys, 1612).

Response by Alexander Anderson to Ghetaldi's Apollonius reconstructions.

Ad theorema geometricum, a' nobilissimo viro propositum, Ioannis Camilli Gloriosi responsum. Huic subnectitur solutio hactenüs desiderat a Prop. 19. lib. 2 Arithmeticorum Diophanti Alexandrini (Venice: Baglioni, 1613).

Apollonius Redivivus seu restituae Apollonii Pergaei De inclinationibus geometriae Liber secundus (Venice: Baretius, 1613).

Continuation of Ghetaldi's 1607 *Apollonius Redivivus*.

Eorum quæ vehuntur in aquis experimenta ... ad Archimedis trutinam examinata (Rome: Zannetti, 1614).

By Giovanni de' Bardi.

Nova stereometria doliorum vinariorum (Linz: Plancus, 1615).

Uses material from Archimedes.

Aitiologia. Pro zetetico Apolloniani problematis a se iam pridem edito in supplemento Apollonii redivivi (Paris: de Varennes, 1615).

Further response by Alexander Anderson to the Apollonius reconstructions of Marino Ghetaldi; see his 1612 *Supplementum Apollonii redivivi*.

Außzug auß der Uralten MesseKunst Archimedis (Linz: Kepler and Planck, 1616).

Excerpts in German from Archimedes.

Vindiciae Archimedis sive, elenchus cyclometriae novae (Paris: Laquehay, 1616).

By Alexander Anderson.

Diffesa d'Archimede, trattato del misurare, ò trovare la grandezza del cerchio (Bologna: Bonomi, 1620).

By Pietro Antonio Cataldi, in opposition to Joseph Scaliger.

Problematon Mathematicorum Pentas (Wittenberg: Thamm, 1621).

Dissertation by Simon Munth including 'Archimedeia Trigoni Orthogonii ad potentiam Circuli ratio contra Joh. Scalig. asseritur'.

Pro Archimede, et Euclide (Paris: Chevalier, 1622).

By David Sainclair, concerned with quadratures. Also catalogued with title *Direction cyclometrique*.

*Gründliche Widerlegung der PositionCirckel, Claudii Ptolomaei, vornem-
blichen aber, Johannis Regiomontani* (Frankfurt: Iennisius, 1625).

By Simon Mairn.

*Paradoxes de Meynier contre les mathématiciens qui abusent la jeunesse,
ensemble les définitions, théorèmes et maximes d'Euclides, d'Archimèdes, de
Proclus, de Sacrobosco et d'Aristote* (Paris, Rousset and Jacquin, 1626).

By Honorat de Meynier. Subsequent editions 1626, 1652.

Ant-Aristarchus, sive: Orbis-terrae immobilis liber unicus (Antwerp: Plantin, 1631).

By Libertus Fromondus.

*Vesta, Sive Ant-Aristarchi vindex, adversus Iac. Lansbergium Philippi f.
medicum middelburgensem* (Antwerp: Plantin, 1634).

By Libertus Fromondus.

Apollonius Cattus, oder geometrischer Wegweiser (Kassel: Saur, 1634).

By Benjamin Bramer. Subsequent editions 1646, 1684.

Cursus mathematicus / Cours mathématique (Paris: Le Gras, 1634).

See EIP Paris 1634; by Pierre Hérigone. Contains Ghetaldo's reconstruction of the *Inclinationum geometria* of Apollonius and Viète's of the *Tactionum*

geometria. Also contains *Elements* I–XV and the *Data* of Euclid.

Methodus quadrandi circuli mechanicen maxime promouens. Siue Archimedis de circuli dimensione supplementum geometricum (Charleville: Raoult, 1635).

By Claude Esberad.

Het groote planeten boeck, met de geomanci, phisiognomi ende chyromanci. (Amsterdam: Jansz., 1639).

Promises ‘Alles uyt Platone, Ptolomeo, Hali, Albimasar, ende Joannes Coninckberger, op het kortste ende vlytichste te samen getogen.’

De Centro Gravitatis, Liber Quartus, De Gloria, Ab Usu Centri Gravitatis binarum specierum Quantitatis continuae parta. Sive Archimedes Illustratus (Vienna: Cosmerovius, 1641).

By Paul Guldin.

Opera geometrica. De sphaera et solidis sphaeralibus libri duo in quibus Archimedis doctrina de sphaera & cylindro denuo componitur; latius promouetur, et in omni specie solidorum (Florence: Massi and Landi, 1644).

By Evangelista Torricelli.

Disquisitio mathematica in Cleomedem (Halle: Salfeld, 1644).

Dissertation by Thomas de Wedig.

Archimedes reformatus (Holm: Petrus à Selov, 1644).

By Georg Stiernhielm.

Archimede redivivo con la stadera del momento. (Palermo: Cirillo, 1644).

By Giovanni Battista Odierna. Concerned with the specific gravities of substances, particularly metals.

Aristarchi Samii De mundi systemate, partibus, & motibus eiusdem, libellus. (Paris: Bertier, 1644).

Edited by Pierre de Roberval from an unspecified manuscript: the text is

not that of the *On the sizes and distances of the Sun and Moon* and contains little geometry. Subsequent edition Paris 1647.

Lo specchio ustorio: del P.F. Bonaventura Cavalieri Giesuato overo trattato delle settione coniche, e di alcuni loro mirabili effetti intorno al lume, caldo, freddo, suono, e moto (Bologna: Ferroni, 1650).

By Bonaventura Cavalieri; sources include the works of Archimedes and Diocles on burning mirrors.

Musurgia universalis; sive Ars magna consoni et dissoni, in X libros digesta (Rome: Cobellet, 1650).

By Athanasius Kircher; contains excerpts from Alypius, *Introduction to music*.

Quadratura Circuli Et Hyperbolae Segmentorum Ex dato eorum centro gravitatis (Toulouse: Bosc, 1651).

By Antoine de La Loubère. Named sources include Archimedes.

Archimadaea, Sive Palaestra Illustris. Das ist: Ingenierischer Geometrischer Wegweiser (Frankfurt: Beyer, 1652).

By Christian Jacobi.

Clavis mathematicae denuo limata (Oxford: Robinson, 1652).

By William Oughtred. The third edition of this work, in which there appears for the first time among other opuscula an algebraic treatment of 22 propositions from Archimedes, *De sphaera et cylindro*. Subsequent editions Oxford 1667 (the Archimedes with separate title page dated 1663), 1693, 1698 (the Archimedes being a reissue of the 1693 sheets).

Elementa geometriae planae ac solidae. Quibus accedunt selecta ex Archimede theoremata. (Antwerp: Meurs, 1654).

By Andrea Tacquet; see EiP Antwerp 1654. Contains *Elements* 1–6, 11–12 as well as selections from Archimedes. Subsequent editions Antwerp 1665, 1672, Amsterdam 1683, Padua 1694, Amsterdam 1701, Cambridge 1703. Spanish versions Brussels 1688, 1689, 1701.

Examen circuli quadraturae hactenus editarum celeberrimae: quam Apollonius alter, magno illo Pergaeo non minor geometria ... Gregorius a Sancto Vincentio ... exposuit (Lyon: Barbier, 1654).

Speculum moralis Archimedis, in quo reflexis radiis solaribus illustriorum disquisitionum moralium. (Messina: Brea, 1655).

By Francesco Salafia.

Archimedes Christianus, Sive Speculum Tripartitum (Vienna: Cosmerovius, 1656).

Exercitationum Mathematicarum (Leiden: Elsevir, 1656–7).

By Frans van Schooten. Volume 3 (of 5) comprises ‘Apollonii Pergaei loca plana restituta’. Dutch translation Amsterdam 1659–60.

Terra machinis mota dissertationes geometricae, mechanicae, physicae, hydrostaticae (Rome: de Lazaris, 1658).

By Paolo Casati. Promises ‘Archimedes Terrae motionem spondens ab arrogantiae suspicione vindicatur’.

De maximis, et minimis, geometrica divinatio in quintum Conicorum Apollonii Pergaei ad huc desideratum (Florence: Cocchini, 1659).

By Vincenzo Viviani.

Ptolemaeus Parus, in genethliacis iunctus Arabibus. (Lyon: Huguetan and Ravaud, 1659).

By Andrea Argolus. A compendium rather than an edition.

Discorso di Giuseppe Campani intorno a’ suoi muti oriuali, alle nuoue sfere archimedee, & ad vn’altra rarissima, & utilissima inuentione di personaggio conspicuo (Rome: Moneta, 1660).

Architectura Civilis Nova & Antiqua (Frankfurt: Spörlin, 1663).

By Georg Andreas Böckler; evokes ‘Vitruvio, Archimede, und andern

alten Meistern'. Subsequent edition 1680.

Novus Archimedes Amor Ad imitationem Sociati in Caelis (Craców: Bertut., 1665).

Preparatio ad Archimedis (s. l., 1670).

By Francesco Maurolico.

Πυθαγορείων ἀποσπασμάτια *Pythagoreorum fragmenta* (Cambridge: Hayes and Creed, 1670).

Includes non-mathematical fragments from Archytas.

Dary's miscellanies examined; and some of his fundamental errors detected. By authority of ancient and modern mathematicians. (London: Brooksby, 1670).

By Robert Anderson. The 'ancient mathematicians' include Euclid, Diophantus, Apollonius and Archimedes.

Diophanti (Alexandrini) Redivivi (Lyon: Thioly, 1670).

By Jacobo De Billy.

Elemens de geometrie, ou, Par une methode courte & aisee l'on peut apprendre ce qu'il faut sçavoir d'Euclide, d'Archimede, d'Appollonius, & les plus belles inventions des anciens & des nouveaux geometres (Paris: Mabre-Cramoisy, 1671).

By Ignace Gaston Pardies. Subsequent editions The Hague 1680 (in Latin), 1690, 1691 (in Pardies' *Œuvres*), 1705, 1710; Paris 1673, 1683; Lyon 1683, 1695, 1725 (in Pardies' *Œuvres*); Jena 1684 (in Latin), 1693; Amsterdam 1690 (in Dutch); Oxford 1694 (in Latin); London 1701, 1702, 1705, 1711, 1717, 1725, 1734, 1746 (all in English); Utrecht 1711 (in Latin); Amsterdam 1725 (in Pardies' *Œuvres*); Dublin 1734 (in English).

Archimedes Mechanicus (Bratislava: Gründer, 1676).

Disputation, the defendant being Joannes Franciscus Praetor, the praeses Mathaeus Coppylius.

Lectio reverendi et doctissimi viri D. Isaaci Barrow beatae memoriae. In qua Theoremata Archimedis de Sphaera & Cylindro, per methodum Indivisibilium investigata, ac breviter demonstrata exhibentur. (London: Redmayne, Williams and Dunmore, 1678).

Solutions using indivisibles to four problems from *De Sphaera et Cylindro*.

Replica: di Donato Rossetti ... data alle considerazioni, che sopra gli avvisi hà aggiunte alla lezione accademica il dottissimo signor Geminiano Montanari (Turin: Gianelli, 1678).

Concerns Archimedes on density.

Demostrar la inteligencia de Archimedes, que con el espejo quemò la armada enemiga (Madrid: Infançon, 1679).

By Andrés Dávila y Heredia. Concerns burning mirrors.

Elementa conica Apollonii Paergei [sic] et Archimedis opera Nova & breviori methodo demonstrata (Rome: Mascardi, 1679).

By Joannes Alphonso Borelli. Apollonius, *Conica* and the geometrical works of Archimedes are reduced in each case to a ‘compendium’ by compression and rearrangement, and with new proofs. Sometimes bound with, and occasionally described as part of Borelli’s *Euclides restitutus* (Rome, 1679).

Varia opera mathematica D. Petri de Fermat, Senatoris Tolosani. (Toulouse: Pech, 1679).

Includes ‘Apollonii Pergæi De locis planis restituti liber II’.

Archimedes Mathematicorum Principem Dissertatione Historico-Mathematica (Jena: Nisianus, 1683).

Dissertation by Johann Jakob Fick.

Archytam Tarentinum Dissertatione Historico-Mathematica (Jena: Bauhofer, 1683).

Dissertation by Johann Georg Mertz.

Lectiones habitae in scholis publicis Academiae Cantabrigiensis (London: Playford, 1684).

By Isaac Barrow. Includes a lecture on Archimedes. Subsequent edition 1685.

Les Éléments de géométrie ou de la mesure du corps, qui comprennent tout ce qu'Euclide en a enseigné, les plus belles propositions d'Archimède et l'analyse (Paris: Pralard, 1685).

By Bernard Lamy. Subsequent editions 1692, 1695.

De beghinselen des waterwichts (Leiden: Plantin, 1686).

By Simon Stevin; concerned with Archimedes' principle.

Propositiones hydrostaticae ad illustrandum Aristarchi samii systema destinatae, et quaedam phaenomena naturae generalia. (London: Smith and Faithorne, 1687).

By Francis Jessop.

Preuf-stuck van Archimedes seer dienstigh in't coopen ofte vercoopen (Antwerp: Mesens, 1698).

By Joannes van Stockum. A volume of numerical tables pertaining to various monetary functions.

Geographiae veteris scriptores graeci minores, cum interpretatione latina. (Oxford: University press, 1698–1712).

Includes passages from Ptolemy as well as many other authors.

Das wohlgelungene Kunststücke des Archimedis (Jena, 1699).

Poetic eulogy of Erhard Weigel.

Merlinus liberatus (London, 1700).

Almanac by John Partridge. Title page promises 'divers aphorisms of Ptolemy that are infallible' among much other matter.

De locis solidis secunda divinatio geometrica (Florence, 1701).

Reconstruction of Aristaeus on solid loci by Viviani, originally written in 1646.

Das Grosse Planeten-Buch (Leipzig, 1703).

By Sebastian Brenner. Title page promises matter ‘Aus dem Platone, Ptolomeo, Hali, Albumasar, Barlaam und Johanne Königsperger’.

Modern Works Cited

No attempt has been made to survey the modern literature(s) on the reception of the Greek mathematical works, which would be a substantial bibliographic project in its own right; reference is limited to specific points of information.

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- EiP: Benjamin Wardhaugh, Philip Beeley and Yelda Nasifoglu, *Euclid in print, 1482–1703: A catalogue of the editions of the Elements and other Euclidean works* (online, 2020), <https://bibsoc.org.uk/euclid-print-1482-1703/>.
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- thesis, University of Glasgow, 2019).
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- Hunter, E. A., 'Disturbing Archimedes' Circles: Reading and Reinterpreting the Archimedean Corpus in Early Modern Europe' (Ph.D. thesis, University of Chicago, forthcoming).
- ISTC: *Incunabula Short-Title Catalogue*, https://data.cerl.org/istc/_search.
- Malpangotto, Michela, 'Graphical Choices and Geometrical Thought in the Transmission of Theodosius' *Spherics* from Antiquity to the Renaissance', *Archive for History of Exact Sciences* 64 (2010), 75–112.
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