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Alan C. Bowen and Christian Wildberg edd.

New Perspectives on Aristotle's De caelo

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A. *Medieval and early modern manuscripts*²

Family a

Parisinus graecus 1853 (E) ca 10th century, *De caelo* on folios 69–106 v°.

Vaticanus gr. 253 (L after Bekker 1870) 13th century.

Vaticanus Ottobonianus gr. 188, 15th century, based on *Vaticanus gr.* 253 and the exemplar used by William of Moerbeke in his Latin translation (Γ).

Family b

Vindobonensis phil. gr. 100 (J) 9th century (second half), *De caelo* on folios 56–86.

Marcianus gr. 214 (H^a in Bekker 1870) 12th century.

Marcianus gr. 200 (Q in Bekker 1870) 1457, copied from J by Jean Rhosos.

Marcianus gr. 210 (F^m in Mioni 1958, U in Longo 1961) 13th century, combines *Marcianus gr.* 214 and *Vaticanus gr.* 253.

Marcianus gr. 211 (E^b in Bekker 1870, V in Moraux 1954 and in Longo 1961) 13th century, derived from *Marcianus gr.* 210.

Marcianus gr. 212 (G^a in Bekker 1870) 15th century, derived from *Marcianus gr.* 214 with variants from *Marcianus gr.* 211.

Marcianus gr. 206 (f in Bekker 1870) 1467, copied at Rome by Charitonimus Hermonymus of Lacedemonia, based on *Marcianus gr.* 211.

¹ The editors are very grateful to Andrea Falcon for his valuable suggestions and additions to this bibliography, and to Veronica Shi for her editorial work. We also thank Gerhard Endress for his kindness in supplying us with the information for the entries on the Arabic tradition.

² Following Moraux (1965): cf. Moraux (1954).

- Laurentianus* 87,17 (j in Longo 1961) 14th century.
Vindobonensis phil. gr. 64 1457, copied under the direction of Jean Rhosos.
Laurentianus 87,11, attributed to Jean Rhosos.
Riccardianus gr. 14 (O^b in Bekker 1870) 15th–16th century.
Vaticanus gr. 1027 (H after Bekker 1870) 12th century.
 Same subgroup as *Vaticanus gr.* 1027
Vaticanus Urbinas gr. 37 (M after Bekker 1870) 14th century.
Parisinus Coislinianus 169 (m in Longo 1961) 14th century.
Laurentianus 87,7 (F after Bekker 1870) 14th century.
Vaticanus gr. 499 (k in Bekker 1870, f in Longo 1961) 13th–14th century,
 related to *Laurentianus* 87,7.
Parisinus gr. 2595 (e in Longo 1961).

Unconnected subgroups

- Ambrosianus gr.* 403, G 61 sup. (G in Longo 1961) 13th century.
 Direct descendants
Vindobonensis phil. gr. 2 1496, copied in the Abruzzes by Robert Maioranos.
Vindobonensis phil. gr. 27, early 16th century.
Parisinus suppl. gr. 642 (s in Moraux 1954, P in Longo 1961) 14th century.
Parisinus gr. 2032 (i in Bekker 1870, p in Longo 1961) 14th century.
Parisinus Coislinianus 166 (o in Bekker 1870, O in Moraux 1954) end of 14th century.
Parisinus gr. 1860 (l in Bekker 1870) 15th century.
Vaticanus gr. 249, 15th century.
Laurentianus 81,1 (S in Bekker 1870 and in Fobes 1913, Q in Longo 1961) end of 13th century, copied by Jean Panaretos.
Vaticanus Palatinus 161 (P in Moraux 1954) 1442, copied by Jean Scutariotas from *Laurentianus* 81, 1.
Ambrosianus gr. 512, M 46 sup. (A in Moraux 1954, W in Longo 1961) 13th century.
Vaticanus Urbinas gr. 38 (Q^a in Bekker 1870) 15th century, copied by Michel Apostolios and modeled on *Ambrosianus gr.* 512, M 46 sup.

Other manuscripts prior to 1600

- Alexandrinus Bibl. Patriarc.* 87 (26. 606. 76) 16th century, with commentary by Theodore Metochites in the margins.
Ambrosianus gr. 725, R 119 sup. 16th century.
Ambrosianus gr. 1026. G 115 inf. 16th century.
Berolinensis gr. In fol. 67², 13th–14th century.
Bononiensis Bibl. Univ. 2302 (*olim* 216) 15th–16th century, copied at Padua by Zacharias Kallierges the Cretan.
Cantabrigiensis Bibl. Univ. 190 (Dd. IV 16), copied at Florence in 1441.
Cantabrigiensis Bibl. Univ. Add. 1732, beginning of 14th century.
Laurentianus 87,20 (v in Bekker 1870, A in Longo 1961) 14th century.

- Lugduno-Batavus Vossianus gr.* Q 3, 13th century.
Lugduno-Batavus Vossianus gr. F 63, end of 15th century.
Matritensis Bibl. Nat. 4563 (*olim* N 26) 1470, copied by Constantin Lascaris.
Monacensis gr. 200, 15th–16th century.
Oxonienis Bodl. Bywater 4¹, 1418, copied on Crete by Jean Chionopoulos.
Oxonienis Coll. Corp. Christi 104, 15th century, copied by Jean Thessalos Scutariotas, first three books only.
Parisinus gr. 1861 (c in Bekker 1870) 15th century, copied by George Gregoropoulos.
Parisinus gr. 1866, 15th century, excerpts only.
Parisinus gr. 2033, 15th century, copied by Michel Apostolios.
Parisinus gr. 2063 (Z in Longo 1961) 14th century, stops at A 3.269b33.
Parisinus gr. 2595², 13th–14th century.
Scorialensis Σ III 2 (101 Revilla) 16th century.
Scorialensis T II 13 (152 Revilla) 15th century, copied by Antonio Damilas of Milan.
Scorialensis T II 21 (160 Revilla) 16th century, first three books only.
Vaticanus Reginae Suecorum gr. 123, 16th century.
Vaticanus gr. 252, 16th century.
Vaticanus gr. 254, 14th century, with Simplicius' commentary.
Vaticanus gr. 2201.
Vindobonensis phil. gr. 75, 1445, copied by Demetrios Kykandyles.

B. Modern critical editions of the Aristotle's De caelo

- Allan, D.J. (1955) *Aristotelis de caelo libri quattuor*, 3rd edn 1961 (Oxford).
 Bekker, I. (1870) *Aristotelis opera* (Berlin).
 Longo, O. (1961) *Aristotele. De caelo* (Florence).
 Moraux, P. (1965) *Aristote. Du ciel* (Paris).
 Prantl, C. (1881) *De coelo, et de generatione et corruptione* (Leipzig).

C. Commentaries and translations

C1. Ancient to early modern commentaries in Greek and Latin³

4th century

Themistius, *In libros Aristotelis De caelo paraphrasis, hebraice et latine. Sēfer ha-shāmayim we-ha-ōlām le-Aristō 'im pērūsh Tāmisti'ūs* (ed. Landauer 1902).⁴

³ Following Edward Grant in *Planets, Stars, and Orbs: The Medieval Cosmos, 1200–1687* (Cambridge, 1994). The original dates of publication and/or modern editions are listed where available.

⁴ Hebrew translation by Zeraḥyah ben Yiṣḥāq ben She'alti'el, made in 1284, from

6th century

Simplicius of Cilicia, *In Aristotelis de caelo commentaria* (ed. Heiberg 1894).

9th century

Pseudo-Avicenna, *Liber celi et mundi* (ed. Gutman 2003).

12th century

Gerard of Cremona, *Aristoteles, Liber de celo et mundo* (ed. I. Opelt 1971).
Translation from the Arabic of ibn al-Biṭrīq (9th century) into Latin.

13th century

Albertus Magnus, *De coelo et mundo* (ed. Hossfeld 1971).

Alvaro of Toledo, *De substantia orbis* (ed. Alonso Alonso 1941).

Gunsalvi of Burgos (ed. Renaud 1973).

John of Jandun, *Quaestiones in Aristotelis de caelo*.

Michael Scot, *Averrois Cordubensis commentum magnum super libro de caelo et mundo Aristotelis* (ed. Arnzen 2003).

Petrus de Alvernia, *Quaestiones supra librum de caelo et mundo* (ed. Galle 2003).

Thomas Aquinas, *In libros Aristotelis de caelo et mundo expositio* (Commissio Leonina 1886, ed. Spiazzi 1952).

Thomas de Bungeye, *Quaestio in Aristotelis de caelo et mundo* (ed. Parker 1968).

William of Moerbeke, *Simplicii in Aristotelis de caelo* (ed. Bossier, Vande Veire, and Guldentops 2004).

14th century

Albertus de Saxonia, *Quaestiones in libros Aristotelis de caelo et mundo* (ed. Patar 2008).

Ioannis Buridanus, *Expositio et quaestiones in Aristotelis de caelo* (ed. Moody 1942, ed. Patar 1996).

Nicole Oresme, *Le livre du ciel et du monde* (ed. Menut and Denomy 1968).

Paul of Venice, *Liber celi et mundi*.

15th century

Johannes de Magistris, *De caelo et mundo*.

Thomas Bricot, *Quaestio in Aristotelis de caelo et mundo* (1486).

the lost Arabic version of Yahyā ibn 'Adī, died 974), and the Latin translation from the Hebrew by Moses Alatino (16th century).

16th century

Quaestiones in de caelo

Conimbricenses, or Coimbra Jesuits (1592, reprinted 1598).

Galileo Galilei (ed. Wallace 1977).

Johannes Major (1526).

17th century

Quaestiones in de caelo

Pedro Hurtado de Mendoza (1615).

Bartholomew Amicus (1626).

Raphael Aversa (1627, vol. 2).

Roderigo de Arriaga (1632).

Bartholomaeus Mastrius and Bonaventura Bellutus (1640).

Franciscus de Oviedo (1649).

Thomas Compton-Carleton (1649).

Franciscus Bonae Spei (1652).

Melchior Cornaeus (1657).

Sigismundus Sebellonus (vol. 2, 1663).

George de Rhodes (1671).

Illuminatus Oddus (1672).

Johannes Poncius (1672).

C2. Medieval translations and commentaries in Arabic and Hebrew

9th century

Yahyā (Yūḥannā) ibn al-Biṭrīq, *Aristūṭālīs, Kitāb al-Samā' wa-l-ālam* [*Book on the Heaven and the World*] (ed. Badawī 1961). Translation from the Syriac.⁵

Ḥunayn ibn Ishāq (?), [*Sixteen Questions on Aristotle's Book on the Heaven and the World*] (ed. Gutman 2003), Latin version.⁶

⁵ A defective printing from one ms., presenting for book 1 the revised version of Mihrān (v. infra); critical edition in preparation by Gerhard Endress, *Aristoteles Semitico Latinus* (Leiden 2010). Variants against the Greek ms. tradition have been discussed, on the basis of the notes in Endress 1966, by Tarān (1974).

⁶ Sixteen *quaestiones* on all parts of *De caelo*. The authorship of Ḥunayn, which can be deduced from a note in Ibn al-Nadīm (died 980), *al-Fihrist*, 250.30 (Flügel) is uncertain. The medieval tradition attributes the text to Avicenna. The Hebrew version, while made from a Latin version, has numerous revisions and additions in comparison to the extant Latin text; see Glasner (1996). While there are certain parallels with the commentary by Themistius, this is not a paraphrase of the latter; see Glasner (1996) *pace* Alonso Alonso (1951).

10th / 11th century

- Abū l-Farağ 'Abdallāh ibn al-Tayyib, *Aristūṭālis*, [*Kitāb al-Samā' wa-l-ālam*]. Arabic translation of the *De caelo*.⁷
- Abū Sahl al-Masīhī, 'Isā ibn Yahyā, *Talhīṣ kitāb al-Samā' wa-l-ālam li-Aristū* [*Commentary—Paraphrase of De caelo*]. Ms. Leiden, Biblioteek der Rijksuniversiteit, Acad. 44, no. 4.⁸
- Abū 'Alī ibn Sīnā (Avicenna), *Kitāb al-Šifā'* [*The Book of the Cure*], Part II, *al-Ṭabī'yyāt [Physica]*, vol. 2: *al-Samā' wa-l-ālam* [*On the Subject Matter of De caelo*], (ed. Qāsim 1968).⁹
- Themistius, *In libros Aristotelis de caelo paraphrasis, hebraice et latine. Sēfer ha-šamayim we-ha-ōlām le-Aristō 'im pērūš Tāmisti'ūs* (ed. Landauer 1902).¹⁰

12th century

- Ibn al-Šalāh (Abū l-Futūḥ Aḥmad ibn Muḥammad ibn al-Sarī), *Qaul fi Bayān al-ḥaṭa' al-āriḍ fi ma'nā maḥkūr fi l-maqāla al-ḥāliḥa min kitāb al-Samā' wa-l-ālam* [*Explanation of an Error Occurring on a Matter Mentioned in Book 3 of the Book On the Heaven and the Worlds*] (ed. Türker 1964).¹¹
- Averroes (Abū l-Walīd Muḥammad ibn Aḥmad ibn Rushd), *Kitāb al-Samā' wa-l-ālam* [*Epitome of De caelo*], see Rasā'il ibn-Rushd 1946, repr. ed. Jéhamy 1994 (ed. Eichner 2010).
- , *Talhīṣ [kitāb] al-Samā' wa-l-ālam* [*Middle Commentary on De caelo*]. *Talhīṣ al-Samā' wal-ālam* (ed. Jamāl-al-Dīn al-'Alawī [Jamal-Eddine Alaoui] 1984).
- , *Šarh (Tafsīr) kitāb al-Samā' wa-l-ālam*. [*Commentary on Aristotle's Book On the Heaven and the Universe*]. Facsimile of ms. 11821, National Library, Tunis (ed. Endress 1994), Latin version by Michael Scotus (ed. Arnzen 2003).
- , *Ma'amar be-'Ešem ha-Galgal* [*De substantia orbis*]. Critical edition of the Hebrew text of lost Arabic original with English translation and commentary (ed. Hyman 1986), Latin version by Alvaro de Toledo (ed. Alonso Alonso 1941).

⁷ Large fragments preserved in ms Paris, Bibliothèque nationale de France, arabe 2281. The translator, a physician of Baghdad who died in 1043, was the author of a number of commentaries of Aristotelian works. The lemmata of Aristotle's text are accompanied by a concise literal commentary in the tradition of the Alexandrian *lexis*, preserving also the division into lecture courses, *pragmata*, Arabic *ta'lim*.

⁸ Abū Sahl, a Christian physician from Khurasan who died in 1010, was a teacher of Avicenna in medicine.

⁹ Translated by Gunsalvi of Burgos ca. 1280. The subject matter of *De caelo* 3 is treated in the context of the following part of the *Šifā'*, *al-Kawn wa-l-fasād* ("De generatione et corruptione"), also edited by Qāsim.

¹⁰ See n. 4 above.

¹¹ A critique of *De caelo* 3.8 306b3–8.

Mihrān ibn Maṣṣūr al-Masiḥī, *Kitāb al-Samā' wa-l-ālam* (ed. Badawi 1961).
Revision of Ibn al-Bīṭriq's translation of book 1, dated 1158.¹²

C3. *Modern editions and translations of pre-modern commentaries*

- Alaoui, J.-E. (Ġamāl-al-Dīn al-ʿAlawī) (1984) *Averroes, Talḥiṣ [kitāb] al-Samā' wa-l-ālam (Middle Commentary on De caelo). Talḥiṣ al-Samā' wal-ālam, Maṣṣūrāt Ġami'at Sidi Muḥammad ben ʿAbdallāh, Kulliyyat al-ādāb wa-l-ʿulūm al-insaniyya bi-Fās 1* (Fes).
- Alonso Alonso, M. (1941) *Commentario al "De substantia orbis" de Averroes (Aristotelismo e Averroismo) por Alvaro de Toledo* (Madrid).
- Arnzen, R. (2003) *Averrois Cordubensis commentum magnum super libro De celo et mundo Aristotelis, ex recognitione Francis James Carmody* (Leuven). Latin translation by Michael Scotus.
- Aujac, G.; Brunet, J.-P.; and Nadal, R. (1979) *Autolycos de Pitane. La sphère en mouvement, Levers et couchers héliaques, Testimonia* (Paris).
- Badawī, ʿAbd-al-Raḥmān (1961) *Aristūṭālīs, al-Samā' wa-l-Āḥār al-ʿulwiyya* (Cairo). A revision of Ibn al-Bīṭriq' translation of book 1 by Mihrān ibn Maṣṣūr al-Masiḥī, dated 1158.
- Bossier, F.; Vande Veire, C.; and Guldentops, G. (2004) ed. *Simplicius. Commentaire sur le traité du ciel d'Aristote. Traduction de Guillaume de Moerbeke*, vol. 1 (Leuven).
- Bowen, A.C. (2003–2008) "Simplicius' Commentary on Aristotle, *De caelo* 2.10–12: An Annotated Translation," *SCIAMVS* 4: 23–58, *SCIAMVS* 9: 25–131.
- Capra, L. (1993) *Torquato Tasso. Note di Torquato Tasso a "De Caelo" di Aristotele* (Rome).
- Commissio Leonina, (1886) *S. Thomae de Aquino in libros Aristotelis de caelo et mundo expositio*. (Rome/Paris).
- Eichner, H. (2010) *Averroes: Kitāb al-Samā' wa-l-ālam (Epitome of De caelo), Averrois Opera*, ser. arab. 23 (Paderborn).
- Endress, G. (1994) *Šarḥ (Tafsīr) kitāb al-Samā' wa-l-ālam. Commentary on Aristotle's Book On the Heaven and the Universe*, Facsimile ed., reproduced from ms. 11821, National Library, Tunis. Publications of the Institute for the History of Arabic-Islamic Science, Series C: Facsimile editions, vol. 57 (Frankfurt am Main).
- Galle, G. (2003) *Petrus de Averni: Questions on Aristotle's De Caelo* (Leuven).
- Gutman, O. (2003) *Avicenna, Liber celi et mundi: A Critical Edition with Introduction* (Leiden).
- Hankinson, R.J. (2006) *Simplicius: On Aristotle's "On The Heavens 1.10–12"* (Ithaca).
- Heiberg, I.L. (1894) *Simplicii in Aristotelis de caelo commentaria, Commentaria in Aristotelem Graeca* 7 (Berlin).
- Hossfeld, P. (1971) *Alberti Magni opera omnia edenda curavit Institutum Alberti Magni Coloniense*, v. 1, *De caelo*. (Cologne).

¹² Mihrān was a Christian physician at the Artuqid court of Diyābakr.

- Hyman, A. (1986) *Averroes' De substantia orbis: Critical Edition of the Hebrew Text with English Translation and Commentary [Ma'mar b-'ešem ha-galgal le-Ibn Rushd b-targūm 'ibri]*, Corpus Philosophorum Medii Aevi, Opera Averrois, Medieval Academy Books 96 (Cambridge MA/Jerusalem).
- Jéhamy, G. (1994) *Rasā'il Ibn Rušd al-falsafiyya, 2: Risālat [!] al-Samā' wa-l-'ālam* (Beirut).
- Landauer, S. (1902) *Themistius. In libros Aristotelis de caelo paraphrasis, Commentaria in Aristotelem Graeca 5* (Berlin).
- Menut, A.D. and Denomy, A.J. (1968) *Le Livre du ciel et du monde* (Madison).
- Moody, E.A. (1942) *Iohannis Buridani quaestiones super libris quattuor de caelo et mundo* (Cambridge).
- Mueller, I. (2004) *Simplicius: On Aristotle's "On The Heavens 2.1–9"* (London).
- , (2005) *Simplicius: On Aristotle's "On The Heavens 2.10–14"* (London).
- Parker, B.S. (1968) *Thomas de Bungeye's Commentary on the First Book of Aristotle's De caelo*. PhD Thesis, Tulane University (New Orleans, LA).
- Patar, B. (1996) *Ioannis Buridani expositio et quaestiones in Aristotelis de caelo* (Louvain).
- , (2008) *Alberti de Saxoniam quaestiones in Aristotelis de caelo* (Louvain).
- Renaud, M. (1973) "Le "De celo et mundo" d'Avicenne," *Bulletin de philosophie médiévale* 15: 92–120.
- Qāsim, Maḥmūd (1968) *Abū 'Alī Ibn Sīnā (Avicenna), Kitāb al-Šifā' [The Book of the Cure], Part II, al-Ṭabī'iyyāt [Physica], vol. 2: al-Samā' wa-l-'ālam [On the Subject Matter of De caelo]* (Cairo).
- Raimondo, S. (1952) *Thomas Aquinas. In Aristotelis libros de caelo et mundo, de generatione et corruptione, meteorologicorum expositio* (Turin).
- Rasā'il ibn Rušd (1946) *Averroes: Epitome of Aristotle's De caelo* (Hyderabad).
- Spiazzi, R. M. (1952) *S. Thomae de Aquino in libros Aristotelis de caelo et mundo expositio* (Rome/Paris).
- Türker, M. (1964) "İbnü 'ş-Şalah'ın *De Coelo* ve onun şerhleri hakkındaki tenkitleri," *Araştırma* 2: 1–79.
- Wildberg, C. (1987) *Philoponus: Against Aristotle, on the Eternity of the World*, (London).
- , (1991) *Simplicius: Against Philoponus on the Eternity of the World* (London).

C4. Modern editions, translations, and commentaries

- Bekker, I. (1870) *Aristotelis opera* (Berlin).
- Dalimier, C. and Pellegrin, P. (2004) *Aristote. Traité du ciel* (Paris).
- Elders, L. (1996) *Aristotle's Cosmology: A Commentary on the De caelo* (Assen).
- Gigon, O. (1950) *Vom Himmel, Von der Seele, Von der Dichtkunst* (Zurich).
- Guthrie, W.K.C. (1939) *On The Heavens*, Loeb Classical Library (Cambridge).
- Jori, A. (1999) *Il cielo* (Milan).
- Leggatt, S. (1995) *Aristotle: On The Heavens I and II, with an Introduction, Translation and Commentary* (Warminster).
- Longo, O. (1961) *Aristotele. De caelo* (Florence).

- Moraux, P. (1965) *Aristote. Du ciel* (Paris).
- Prantl, C. (1857) *Aristoteles' Vier Bücher über das Himmelsgebäude und Zwei Bücher über Entstehen und Vergehen* (Leipzig).
- , (1881) *De coelo, et de generatione et corruptione* (Leipzig).
- Stocks, J.L. (1902) *De Caelo*, in W.D. Ross (ed.) *Works of Aristotle* (Oxford) vol. 2. Repr. in R. McKeon (ed.) *The Basic Works of Aristotle* (New York, 1941) 395–466, and in J. Barnes (ed.) *The Complete Works of Aristotle: The Revised Oxford Translation* (Princeton, 1981) 447–511.
- Tricot, J. (1949) *Aristote. Traité du ciel. Traduction et notes*, (Paris).

D. Modern monographs, collected
studies, and articles on Aristotle's De caelo

- Algra, K. (1995) *Concepts of Space in Greek Thought* (Leiden).
- Allan, D.J. (1950) "Mediaeval Versions of Aristotle, *De caelo*, and of the Commentary of Simplicius," *Mediaeval and Renaissance Studies* 2: 82–120.
- Alonso Alonso, M. (1951) "Ḥunayn traducido al latín por Ibn Dāwūd y Domingo Gundisalvo," *Al-Andalus* 16: 37–47.
- Ashley, B.M. (1958) "Aristotle's Sluggish Earth: The Problematics of the 'De caelo,'" *Albertus Magnus Lyceum* 18. Repr. in *The New Scholasticism* 32 (1958): 1–32 and 202–234.
- Barnes, J. (1981) *The Complete Works of Aristotle: The Revised Oxford Translation* (Princeton).
- Bernadete, J. (1957) "Aristotle's Argument from Time," *Journal of Philosophy* 54: 151–152.
- Berti, E. (2002) "La causalità del Motore immobile secondo Aristotele," *Gregorianum* 83: 637–654.
- Blair, P.S.F. (1988) *Aristotle De caelo 1.9 279a18–b3: Who Rules the Cosmos?* MA Thesis, University of Texas at Austin.
- Bodéus, R. (1990) "La prétendue intuition de Dieu dans le 'De coelo' d'Aristote," *Phronesis* 35: 245–257.
- Bodnár, I.M. (1997) "Movers and Elemental Motions in Aristotle," *Oxford Studies in Ancient Philosophy* 16: 81–117.
- , (2005) "Aristotle's Rewinding Spheres: Three Options and Their Difficulties," *Apeiron* 38: 257–275.
- Bodnár, I. and Pellegrin, P. (2006) "Aristotle's Physics and Cosmology," in M.L. Gill and P. Pellegrin (edd.) *Blackwell Companions to Philosophy: A Companion to Ancient Philosophy* (Oxford) 270–291.
- Bogen, J. and McGuire, J.E. (1987) "Aristotle's Great Clock: Necessity, Possibility, and The Motion of The Cosmos In 'De Caelo I:12,'" *Philosophy Research Archives* 12: 387–448.
- Bolton, R. (2009) "Two Standards for Inquiry in Aristotle's *De caelo*," in A.C. Bowen and C. Wildberg (edd.) *New Perspectives on Aristotle's De caelo* (Leiden) 51–82.
- Bolzan, J.E. (1973) "Aristoteles, 'De caelo,' 310B11–14," *Journal of the History of Philosophy* 11: 443–451.

- , (1981) "Democrito, Aristoteles y la flotacion de los cuerpos," *Dialogos* 16: 109–114.
- Bos, A.P. (1988) "'Mantei' in Aristotle, 'De caelo' II 1," *Apeiron* 21: 29–54.
- Bossier, F. (1975) *Filologisch-historische navorsingen over die middeleeuwse en humanistische Latijnse vertalingen van den commentaren van Simplicius*, 3 vols, Doctoral dissertation (Leuven).
- , (1987) "Traductions latines et influences du commentaire *In de caelo* en Occident (XIII'–XIV' siecles)" in I. Hadot (ed.) *Simplicius, sa vie, son œuvre, sa survie* (Berlin) 289–325.
- Bourgey, L. (1975) "Observation and Experiment in Analogical Explanation," in J. Barnes, M. Schofield, and R. Sorabji (edd.) *Articles on Aristotle: 1. Science* (London) 175–182.
- Bowen, A.C. and Wildberg, C. (2009) edd. *New Perspectives on Aristotle's De caelo* (Leiden).
- Brandis, C.A. (1836) *Scholia in Aristotelem* (Berlin).
- Broadie, S. (1982) *Passage and Possibility: A Study of Aristotle's Modal Concepts* (Oxford).
- , (2009) "The Possibilities of Being and Not-Being in *De caelo* 1.11–12," in A.C. Bowen and C. Wildberg (edd.) *New Perspectives on Aristotle's De caelo* (Leiden) 29–50.
- Burnyeat, M.F. (2004) "Introduction: Aristotle on the Foundations of Sublunary Physics," in F.A.J. de Haas, and J. Mansfeld (edd.) *Aristotle's On Generation and Corruption I, Symposium Aristotelicum* (Oxford) 7–24.
- Byrne, C. (2002) "Aristotle on Physical Necessity and the Limits of Teleological Explanation," *Apeiron* 35: 19–46.
- Capra, L. (1993) *Torquato Tasso. Note di Torquato Tasso a 'De Caelo' di Aristotele* (Rome).
- Carmody, F.J. (1982) *Innovations in Averroes' De caelo* (Berkeley).
- Charlton, W. (1983) "Prime Matter—a Rejoinder," *Phronesis* 28: 197–211.
- Chroust, A.-H. (1975) "Aristotle *De Caelo* 279a18–35 (or 279b3), a 'Fragment' of the Lost Aristotelian *On Philosophy*," *The Thomist* 39: 332–340.
- , (1977) "Some Observations on Aristotle's Doctrine of the Uncreatedness and Indestructibility of the Universe," *Rivista critica di storia della filosofia* 32: 123–143.
- Claghorn, G.S. (1954) *Aristotle's Criticism of Plato's Cosmology* (London).
- Cohen, S. "Aristotle on Elemental Motion," *Phronesis* 39: 150–159.
- Crowley, T.J. (2005) "On the Use of 'Stoicheion' in the Sense of 'Element,'" *Oxford Studies in Ancient Philosophy* 29: 367–394.
- Denyer, N. and Makin, S. (2000) "Aristotle on Modality: II—Nicholas Denyer, Never Will and Cannot," *Aristotelian Society: Supplementary Volume* 163–178.
- Dicks, D.R. (1970) *Greek Astronomy from Thales to Aristotle* (London).
- Drabkin, I.E. (1935) "Aristotle, *De caelo* 2.6, 288a, 22," *The Classical Weekly* 29: 93–96.
- Dreyer, J.L.E. (1906) *History of the Planetary Systems from Thales to Kepler* (Cambridge).

- Duhem, P.M.M. (1954–1973) *Le système du monde: histoire des doctrines cosmologiques de Platon à Copernic*. 10 vols. (Paris).
- Easterling, H.J. (1961) "Homocentric Spheres in 'De Caelo,'" *Phronesis* 6: 138–153.
- , (1964) "Quinta Natura," *Museum Helveticum* 21: 73–85.
- Effe, B. (1970) *Studien zur Kosmologie und Theologie der Aristotelischen Schrift "Über die Philosophie"* (Munich).
- Endress, G. (1966) *Die arabischen Übersetzungen von Aristoteles' Schrift De caelo* (Frankfurt).
- , (1995) "Averroes *De Caelo*: Ibn Rushd's Cosmology in His Commentaries on Aristotle's *On the Heavens*," *Arabic Sciences and Philosophy* 5: 1–41.
- , (2001) "Alexander of Aphrodisias on the First Cause: Aristotle's First Mover in an Arabic Treatise Attributed to Alexander of Aphrodisias," in C. D'Ancona and G. Serra (edd.), *Aristotele e Alessandro di Afrodisia nella tradizione araba* (Padova), 19–74.
- Falcon, A. (2001) *Corpi e movimenti: il De caelo di Aristotele e la sua fortuna nel mondo antico* (Napoli).
- , (2005) *Aristotle and the Science of Nature: Unity without Uniformity* (Cambridge).
- Federspiel, M. (1995) "Notes sur le traité aristotelicien *Du ciel*," *Revue des Études Anciennes* 97: 505–516.
- Fiorentino, F. (1974) "Osservazioni sul commento di S. Tommaso al "De caelo" di Aristotele," *Sapienza* 27: 429–440.
- Fobes, F. (1913) "A Preliminary Study of Certain Mss of Aristotle's *Meteorology*," *Classical Review* 27: 249–252.
- Freeland, C. (1994) "Aristotle on Perception, Appetition, and Self-Motion," in M.L. Gill and J.G. Lennox (edd.) *Self-Motion from Aristotle to Newton* (Princeton) 35–64.
- Freudenthal, G. (2009) "The Astrologization of the Aristotelian Cosmos: Celestial Influences on the Sublunar World in Aristotle, Alexander of Aphrodisias, and Averroes," in A.C. Bowen and C. Wildberg (edd.) *New Perspectives on Aristotle's De caelo* (Leiden) 239–281.
- Furley, D. (1994) "Self-Movers," in M.L. Gill and J.G. Lennox (edd.) *Self-Motion from Aristotle to Newton* (Princeton) 3–14.
- Gigon, O. (1950) *Vom Himmel, Von der Seele, Von der Dichtkunst* (Zurich).
- , (1952) "Aristoteles-Studien 1," *Museum Helveticum* 19: 113–136.
- Gill, M.L. (2009) "The Theory of the Elements in *De caelo* 3 and 4," in A.C. Bowen and C. Wildberg (edd.) *New Perspectives on Aristotle's De caelo* (Leiden) 139–161.
- Gill, M.L. and Lennox, J.G. (edd.) (1994) *Self-Motion from Aristotle to Newton* (Princeton).
- Glasner, R. (1996) "The Hebrew Version of *De Celo et Mundo* attributed to ibn Sinā," *Arabic Sciences and Philosophy* 6: 89–112.
- Gould, J.B. (1993) "Aristotle on Time and Possibility in 'De Caelo' I.12," *Philosophical Inquiry* 15: 59–74.
- Granada, M.A. (2004) "Aristotle, Copernicus, Bruno: Centrality, the Principle

- of Movement and the Extension of the Universe," *Studies in History and Philosophy of Science* 35: 91–114.
- Grant, E. (1994) "Appendix II: The Anatomy of Medieval Cosmology—The Significance of the 'Catalog of Questions' in Appendix I," in E. Grant, *Planets, Stars, and Orbs: The Medieval Cosmos, 1200–1687* (Cambridge) 742–775.
- Hadot, I. (1987) "Recherches sur les fragments du commentaire du Simplicius sur la *Métaphysique* d'Aristote," in I. Hadot (ed.) *Simplicius, sa vie, son oeuvre, sa survie* (Berlin/New York) 225–245.
- Hahm, D.E. (1982) "The Fifth Element in Aristotle's *De Philosophia*: A Critical Reexamination," *Journal of Hellenic Studies* 102: 60–74. Repr. in J.P. Anton and A. Preus (edd.) *Essays in Ancient Greek Philosophy* 2 (Albany, 1983) 404–428.
- Hall, J.J. (1971) "'Planets' in Simplicius *De caelo* 471.1 ff.," *The Journal of Hellenic Studies* 91: 138–139.
- Hankinson, R.J. (2009) "Natural, Unnatural and Supernatural Motions: Contrariety and the Argument for the Elements in *De caelo* 1.2–4," in A.C. Bowen and C. Wildberg (edd.) *New Perspectives on Aristotle's De caelo* (Leiden) 83–118.
- Hanson, N.R. (1963) "On Counting Aristotle's Spheres," *Scientia* 98: 223–232.
—, (1974) *Constellations and Conjectures* (Dordrecht).
- Happ, H. (1965) "Kosmologie und Metaphysik bei Aristoteles," in K. Flasch (ed.) *Parusia: Festschrift für Johannes Hirschberger* (Frankfurt/Main) 155–187.
- Heath, T.L. (1932) *Greek Astronomy* (New York).
- Hintikka, J. (1957) "Necessity, Universality, and Time in Aristotle," *Ajatus* 20: 65–90.
—, (1973) *Time and Necessity: Studies in Aristotle's Theory of Modality* (Oxford).
- Hoffman, P. (1987) "Simplicius' Polemics: Some Aspects of Simplicius' Polemical Writings against John Philoponus: From Invective to a Reaffirmation of the Transcendence of the Heavens," in I. Hadot (ed.) *Simplicius, sa vie, son oeuvre, sa survie* (Berlin/New York) 57–83.
- Hon, G. and Goldstein, B.R. (2008) "What Keeps the Earth in Its Place? The Concept of Stability in Plato and Aristotle," *Centaurus* 50: 305–323.
- Hugonnard-Roche, H. (2003) "Aristote le Stagirite, *De caelo*. Tradition syriaque et arabe," in R. Goulet (ed.) *Dictionnaire des philosophes antique: Supplément* (Paris) 283–294.
- Johansen, T. (2009) "From Plato's *Timaeus* to Aristotle's *De caelo*: The Case of the Missing World Soul," in A.C. Bowen and C. Wildberg (edd.) *New Perspectives on Aristotle's De caelo* (Leiden) 9–28.
- Judson, L. (1994) "Heavenly Motion and the Unmoved Mover," in M.L. Gill and J.G. Lennox (edd.) *Self-Motion from Aristotle to Newton* (Princeton) 155–171.
—, (1991) ed. *Aristotle's Physics: A Collection of Essays* (Oxford).
—, "Eternity and Necessity in *De caelo* 1.12 (A Discussion of Waterlow, 1982)" *Oxford Studies in Ancient Philosophy* 1: 217–255.
- Kahn, C.H. (1985) "The Place of the Prime Mover in Aristotle's Teleology," in A. Gotthelf (ed.) *Aristotle on Nature and Living Things* (Pittsburg) 183–205.
- Kalan, V. (2005) "Phenomenological Interpretations of Aristotle's Cosmology," *Phainomena* 14: 97–111.

- Kerferd, G.B. (1991) "Aristotle's Treatment of the Doctrine of Parmenides," in H. Blumenthal and H. Robinson (edd.) *Aristotle and the Later Tradition* (Oxford) 1–7.
- King, H.R. (1956) "Aristotle without *Prima Materia*," *Journal of the History of Ideas* 17: 370–339.
- Kosman, A. (1994) "Aristotle's Prime Mover," in M.L. Gill and J.G. Lennox (edd.) *Self Motion from Aristotle to Newton* (Princeton) 135–153.
- Kouremenos, T. (2003) "Infinite Bodies and the Prime Mover in Aristotle's *Phys.* 8. 10," *Philologus* 147: 44–55.
- Kronz, F.M. (1989) "Aristotle, the Direction Problem, and the Structure of the Sublunar Realm," *The Modern Schoolman* 67: 247–257.
- Lang, H.S. (1998) *The Order of Nature in Aristotle's Physics: Place and the Elements* (Cambridge).
- , (2005) "Aristotle's Science of Nature," in S.V. Astrid (ed.) *Geschichte der Mathematik und der Naturwissenschaften in der Antike: 3. Physik/Mechanik* (Stuttgart) 77–92.
- Lennox, J.G. (2009) "De caelo 2.2 and Its Debt to *De incessu animalium*," in A.C. Bowen and C. Wildberg (edd.) *New Perspectives on Aristotle's De caelo* (Leiden) 187–214.
- Leunissen, M. (2009) "Why Stars Have No Feet: Explanation and Teleology in Aristotle's Cosmology," in A.C. Bowen and C. Wildberg (edd.) *New Perspectives on Aristotle's De caelo* (Leiden) 215–237.
- Liske, M.T. (1995) "In welcher Weise hängen Modalbegriffe und Zeitbegriffe bei Aristoteles zusammen?," *Zeitschrift für Philosophische Forschung* 49: 351–377.
- Lloyd, G.E.R. (1996) "Heavenly Abberations," in Lloyd, G.E.R. (ed.) *Aristotelian Explorations* (Cambridge) 160–183.
- Longrigg, J. (1970) "Aristotle, *De caelo*: Review of P. Moraux," *The Classical Review* 20: 171–174.
- Machamer, P.K. (1978) "Aristotle on Natural Place and Natural Motion," *Isis* 69: 377–387.
- Martin, T.-H. (1871) *Mémoire sur les hypothèses astronomiques d'Eudoxe, de Callippe, d'Aristote et de leur école* (Paris).
- Martineau, E. (1979) "Aion chez Aristote (<<De caelo>> I, 9. Théologie cosmique ou cosmo-théologie?," *Revue de Métaphysique et de Morale* 84: 32–69.
- , (1980) "Response à M. Denis O'Brien," *Revue de Métaphysique et de Morale* 85: 519–528.
- Matthen, M. (2001) "Holistic Presuppositions of Aristotle's Cosmology," *Oxford Studies in Ancient Philosophy* 20: 171–199.
- , (2009) "Why Does Earth Move to the Center? An Examination of Some Explanatory Strategies in Aristotle's Cosmology," in A.C. Bowen and C. Wildberg (edd.) *New Essays on Aristotle's De caelo* (Leiden) 119–138.
- Matthen, M.P. and Hankinson, R.J. (1993) "Aristotle's Universe: Its Form and Matter," *Synthese* 96: 417–435.
- McCue, J.F. (1962) "Scientific Procedure In Aristotle's 'De Caelo,'" *Traditio* 18: 1–24.
- McKeon, R. (1941) *The Basic Works of Aristotle* (New York).

- Merlan, P. (1966) "Two Theological Problems In Aristotle's *Met A*: 6–9 and *De Caelo A*1: 9," *Apeiron* 1: 3–13.
- Mignucci, M. (1990) "Aristotle's *De Caelo* I,12 and His Notion of Possibility," in D. Devereux and P. Pellegrin (edd.) *Biologie, logique et métaphysique chez Aristote* (Paris) 321–334.
- Morau, P. (1949) "Einige Bemerkungen über den Aufbau von Aristoteles' Schrift *de caelo*," *Museum Helveticum* 6: 157–165.
- , (1951) "Recherches sur le *De caelo* d'Aristote. Objet et structure de l'ouvrage," *Revue Thomiste* 170–196.
- , (1954) "Notes sur la tradition indirecte du 'De caelo' d'Aristote," *Hermes* 82: 145–182.
- , (1961) "La méthode d'Aristote dans l'étude du ciel: *De caelo* I.1–II.12," in S. Mansion (ed.) *Aristote et les problèmes de méthode* (Paris) 173–194.
- , (1963) "Quinta Essentia," in Pauly-Wissowa, *Realencyclopädie der classischen Alterumswissenschaft* 24: 1171–263.
- Morau, P. and Wiesner, J. (2001) *Der Aristotelismus bei den Griechen. Von Andronikos bis Alexander von Aphrodisias* (Berlin).
- Morison, B. (2002) *On Location: Aristotle's Concept of Place* (Oxford).
- Moss, J.D. (1991) "Ludovico Carbone's Commentary on Aristotle's *De caelo*," in D.O. Dahlstrom (ed.) *Nature and Scientific Method. Essays in Honor of William A. Wallace* (Washington) 169–192.
- O'Brien, D. (1980) "Aristote et l' 'Aion'. Enquête sur une critique recente," *Revue de Métaphysique et de Morale* 85: 94–108.
- , (1997) "Aristotle's Theory of Movement" in J.J. Cleary and W. Wians (edd.) *Aristotle's Theory of Movement*, Proceedings of the Boston Area Colloquium in Ancient Philosophy 11 (Lanham) 47–86.
- O'Keefe, T. and Thorsrud, H. (2003) "Aristotle's 'Cosmic Nose' Argument for the Uniqueness of the World," *Apeiron* 36: 311–326.
- Owen, G.E.L. (1961) "*Tithenai ta phainomena*," in S. Mansion (ed.) *Aristote et les problèmes de méthode* (Paris) 83–103.
- , (1970) "Aristotle: Method, Physics, and Cosmology," in C.C. Gillispie (ed.) *Dictionary of Scientific Biography*, vol. 1 (New York) 250–258.
- Palmer, J. (2000) "Aristotle on the Ancient Theologians," *Apeiron* 33: 181–205.
- Pellegrin, P. (2009) "The Argument for the Sphericity of the Universe in Aristotle's *De caelo*: Astronomy and Physics," in A.C. Bowen and C. Wildberg (edd.) *New Perspectives on Aristotle's De caelo* (Leiden) 163–185.
- Praechter, K. (1924) "Simpl. in Aristot. *de caelo* p. 370,29 ff. H.," *Hermes* 59: 118–119.
- Quandt, K. (1983) "'Ai gàr ton enantíon apodeixeis aporíaí perì ton enantíon eisin': Philosophical Program and Expository Practice in Aristotle," *Classical Antiquity* 2: 279–298.
- , (1984) "On the Sense and Authenticity of *De caelo* 280A27–34," *Classical Philology* 79: 187–198.
- Repellini, F.F. (1980) "*De caelo* of Aristotle as a Dialectic Reply to Plato's *Timaeus*," *Rivista critica di storia della filosofia* 35: 99–126.
- van Rijen, J. (1989) *Aspects of Aristotle's Logic of Modalities* (Dordrecht).

- Rini, A.A. (2003) "When Time Is of the Essence: *Prior Analytics* I.15 and *De caelo* I.12," *Logique et Analyse* 46: 419–440.
- Robinson, H.M. (1974) "Prime Matter in Aristotle," *Phronesis* 19: 168–188.
- Roochnik, D. (2006) "Aristotle's Commonsensical Cosmology," in N. Rana-singhe (ed.) *Logos and Eros: Essays Honoring Stanley Rosen* (South Bend) 134–146.
- Rosen, E. (1985) "The Dissolution of the Solid Celestial Spheres," *Journal of the History of Ideas* 46: 13–31.
- Sandbach, F.H. (1982) "Plutarch and Aristotle," *Illinois Classical Studies* 7: 207–232.
- Sauvé Meyer, S. (1994) "Self-Movement and External Causation," in M.L. Gill and J.G. Lennox (edd.) *Self-Motion from Aristotle to Newton* (Princeton) 65–80.
- Savoie, D. (2003) "Problèmes de datation d'une occultation observée par Aristote," *Revue d'histoire des sciences* 56: 493–504.
- Seeck, G.A. (1964) *Über die Elemente in der Kosmologie des Aristoteles: Untersuchungen zu "De Generatione et Corruptione" und "De Caelo"* (Munich).
- Sharples, R.W. (1976) "Responsibility and the Possibility of More than One Course of Action: A Note on Aristotle *De caelo* II, 12," *Bulletin of the Institute of Classical Studies of the University of London* 23: 69–72.
- Sinnige, T.G. (1973) "Cosmic Religion in Aristotle," *Greek, Roman and Byzantine Studies* 14: 15–34.
- Sisko, J. (2002) Review of D. Sedley (ed.) *Oxford Studies in Ancient Philosophy* 20 (2001), *Notre Dame Philosophical Reviews* 2002.03.01
- Solmsen, F. (1952) "Aristotle *De caelo* A9, 278a28 ff.," *Classical Philology* 47: 94–95.
- , (1958) "Aristotle and Prime Matter: A Reply to Hugh R. King," *Journal of the History of Ideas* 19: 243–252.
- , (1958b) "Aristotle and Presocratic Cosmogony," *Harvard Studies in Classical Philology* 63: 265–282.
- , (1960) *Aristotle's System of the Physical World: A Comparison with His Predecessors* (Ithaca).
- Stephenson, F.R. (2000) "A Lunar Occultation of Mars Observed by Aristotle," *Journal for the History of Astronomy* 31: 342–344.
- Stocks, J.L. (1902) "De Caelo," in W.D. Ross (ed.) *Works of Aristotle*, vol. 2 (Oxford).
- Tarán, L. (1974) "Review of P. Moraux. 1965. *Aristote. Du ciel*. Paris," *Gnomon* 46: 121–142. = L. Tarán, *Collected Papers 1962–1999* (Leiden 2001), 372–403.
- Thorp, J. (1982) "The Luminousness of The Quintessence," *Phoenix* 36: 104–123.
- Tigner, S.S. (1974) "Empedocles' Twirled Ladle and the Vortex-Supported Earth," *Isis* 65: 433–447.
- Toulmin, S.E. and Goodfield, J. (1963) *The Fabric of the Heavens* (London).
- Ugaglia, M. (2004) *Modelli idrostatici di moto da Aristotele a Galileo* (Rome).
- Verdenius, W.J. (1969) "Critical and Exegetical Notes on *De caelo*," in I. Düring (ed.) *Naturphilosophie bei Aristoteles und Theophrast* (Heidelberg) 268–284.
- Vuillemin, J. (1979) "L'argument dominateur," *Revue de Métaphysique et de Morale* 84: 225–257.

- Wallace, A. (1977) *Galileo's Early Notebooks: The Physical Questions. A Translation from the Latin, with Historical and Paleographical Commentary* (Notre Dame).
- Waterlow, S.: see Broadie, S.
- Wieland, W. (1960) "Die Ewigkeit der Welt," in D. Henrich, W. Schulz and K.-H. Volkmann-Schluck (edd.) *Die Gegenwart der Griechen in neuerer Denken: Festschrift für H.G. Gadamer* (Tübingen).
- Wildberg, C. (1988) *John Philoponus' Criticism of Aristotle's Theory of Aether*, Peripatoi 16, (Berlin/New York).
- Williams, C.J.F. (1966) "Aristotle and Corruptibility: A Discussion of Aristotle *De Caelo* I, XII (Part I)," *Religious Studies* 1: 95-108.
- Wolfson, H.A. (1958) "The Plurality of Immovable Movers in Aristotle and Averroës," *Harvard Studies in Classical Philology* 63: 233-253.
- Zahlfleisch, J. (1897) "Die Polemik des Simplicius gegen Alexander und andere in dem Commentar des ersteren zu der Aristotelischen Schrift *de Caelo*," *Archiv für Geschichte der Philosophie* 10: 191-227.