

MA Cultural Astronomy and Astrology
Astrology, History, Spirit and Soul
Week 3
Astrology in Classical Civilisation
Optional Reading

The optional material this week is extensive and provides scope to explore the subject area through its mythical, religious, magical, philosophical, political, technical or social aspects. In this sense, the chapters in Nick's book, which are essential reading, will point you in the directions which you choose to cover. Whichever path you take will provide material for your final essay. Look upon the following list as an on-line library and investigate the titles which reflect your interests. This week therefore tests your time-management skills, one of the qualities considered central to the MA students' identity as an autonomous learner.

Optional Reading: Primary sources.

The primary sources on classical cosmology are largely the same as recommended in the Foundations module.

Astrology

Maternus, Julius Firmicus, *Mathesis*, translated as *Ancient Astrology: Theory and Practice*, Jean Rhys Bram, Park Ridge, New Jersey: Noyes Press, 1975.

Check books 1, 3 and 5. (Available in Google Books)

There is a glossary of some astrological terms on pp. 333-6,

Cicero, *De Divinatione*, trans. W.A.Falconer, Cambridge Mass: Harvard University Press, London, 1929.

This is not a text on astrology but it is the earliest surviving debate on the nature of divination, which influences later debates on astrology.

Your first option should be to use the Loeb classic edition, which should be the edition cited in your essays, and is online via the University library.

If this unavailable for any reason then access:

http://penelope.uchicago.edu/Thayer/E/Roman/Texts/Cicero/de_Divinatione/home.html

Soul

Aristotle, *Metaphysics*, 2 Vols, Vol. 1 trans. Hugh Tredennick, Vol. 2 trans. Hugh Tredennick and G.Cyril Armstrong, Cambridge Mass., London, 1933,. Book 12, Chapter 6-9 (1071b-1075a).

Your first option should be to use the Loeb classic edition, which should be the edition cited in your essays, and is online via the University library.

If this unavailable, then access:

<http://classics.mit.edu/Aristotle/metaphysics.12.xii.html> (translated W. D. Ross)

Aristotle, *On the Heavens*, trans. W.K.C.Guthrie, Cambridge Mass., London: Harvard University Press, 1921.

Your first option should be to use the Loeb classic edition, which should be the edition cited in your essays, and is online via the University library.

If this unavailable then access: If this unavailable then access:

<http://classics.mit.edu/Aristotle/heavens.html>

Hesiod, *The Homeric Hymns and Homerica, including 'Works and Days' and 'Theogonis'*, trans. Hugh G. Evelyn-White, Cambridge Mass., London, 1917.

Your first option should be to use the Loeb classic edition, which should be the edition cited in your essays, and is online via the University library.

Iamblichus, *On the Mysteries (De Mysteriis)*. Emma C. Clarke, John M. Dillon and J.P. Hershbell (eds.), Atlanta: Society of Biblical Literature, 2003.

This is the preferred translation but it is not online.

For an online edition you may use Iamblichus, *De Mysteriis (On the Mysteries)*, trans. Thomas Taylor. London: Reeves and sons, 1895.

<http://www.archive.org/stream/iamblichusonmys00taylgoog#page/n9/mode/1up>

The Alexander Wilder (Iamblichus, *Theurgia or the Egyptian Mysteries*, trans Alexander Wilder, London: Metaphysical Publishing Company, 1911) is online on

<http://www.esotericarchives.com> but should **not** be used.

Cicero, *Cicero's Somnium Scipionis or Dream of Scipio translated into English, with notes*, translated, with an Introduction and Notes by Andrew P. Peabody.

http://ancienthistory.about.com/library/bl/bl_text_cic_scipiodream.htm

Plato, *Phaedo*, trans H.N.Fowler, Cambridge Mass., London: Harvard University Press, 1914. (Available in the Loeb Classical Library in the University Online Library - <https://www-loebclassics-com.ezproxy.uwtsd.ac.uk/authors>). This is also a lengthy discussion of the soul.

Plotinus, 'On Heaven', 'On the Movement of Heaven', 'On Whether the Stars are Causes', *Ennead* II, 1 - 2, Vol., 2, trans., A.H.Armstrong (Cambridge Mass., London: Harvard University Press 1929).

Your first option should be to use the Loeb classic edition, which should be the edition cited in your essays, and is online via the University library.

If this unavailable then access: <https://classics.mit.edu/Plotinus/enneads.html>

Optional Reading: Secondary Sources

Gansten, Martin. 'Platikos and moirikos: Ancient Horoscopic Practice in the Light of Vettius Valens' Anthologies'. *International Journal of Divination and Prognostication* 4.1 (2023): 1-43. <https://doi.org/10.1163/25899201-12340029> Web.

Greenbaum, Dorian Gieseler and Charles Burnett, 'The Winding Courses of the Stars: Essays in Ancient Astrology', *Culture and Cosmos*, Vol. 11 no 1 and 2, Spring/Summer and Autumn/Winter 2007.

<http://www.cultureandcosmos.org/issues/vol11.php>

This edition of Culture and Cosmos is based on the papers presented at the workshop on ancient astrology in February 2007. This is essential if you are interested in technical aspects of classical astrology.

Greenbaum, Dorian, 'Rising to the Occasion: Appearance, Emergence, Light and Divination in Hellenistic Astrology' in Voss, Angela and Jean Hinson Lall, (eds.), *The Imaginal Cosmos: Astrology, divination and the sacred* (Canterbury: University of Kent, 2007) pp. 9-24.

Greenbaum, Dorian Gieseler, 'Arrows, Aiming and Divination: Astrology as a Stochastic Art', in Patrick Curry (ed.), *Divination: Perspectives for a New Millennium* (Farnham: Ashgate 2010), pp. 179-209. (Available in the Online Library)

Thorndike, Lynn, *History of Magic and Experimental Science* (8 vols, New York: Columbia University Press, 1923–58), Vol. 1, chaps 1-12.

<https://archive.org/details/historyofmagicex00thor>

Lynn Thorndike's work is the foundation of all subsequent histories of astrology. Recommended for its scholarly detail and information.

Campion, Nicholas, 'The Possible Survival of Babylonian Astrology in the Fifth Century CE: a discussion of historical sources', in Oestmann, Günther, H.K. von Stuckrad, and D. Rutkin (eds.), *Horoscopes and Public Spheres: Essays on the History of Astrology*, Berlin and New York: Walter de Gruyter 2005, pp. 69-92. (Available on Google Books).

Greene, Liz, 'The Influence of Orphic Beliefs on the Development of Hellenistic Astrology', *Culture and Cosmos*, Vol. 9 no 2, Autumn/Winter 2005, pp. 21-45.

http://www.cultureandcosmos.org/pdfs/9/9-2_greene_orphic_belief_astrology.pdf

Ross, Micah, 'A Study in the Early Iconography of Gemini', in Nicholas Campion and Dorian Gieseler Greenbaum, *Astrology in Time and Place: Cross-Cultural Currents in the History of Astrology*, (Newcastle: Cambridge Scholars Publishing, 2016), pp. 98-105. (Available in the Online Library)

Ross, Micah, 'The Iconography of Libra and Pisces in Mesopotamia, Egypt and Greece', in Nicholas Campion, *Astrology as Art* (Lampeter: Sophia Centre Press, 2017), pp. 199-42.

This continues Micah Ross's study of the transmission of zodiac signs from Mesopotamia to Greece.

Jones, Alexander and John M. Steele, 'A New Discovery of a Component of Greek Astrology in Babylonian Tablets: The "Terms"'. *ISAW Papers*, 1 (2011)

<http://dlib.nyu.edu/awdl/isaw/isaw-papers/1/>

Marlowe, Elizabeth, 'Framing the Sun: The Arch of Constantine and the Roman Cityscape', *The Art Bulletin*, Vol. 88, No. 2 (Jun., 2006), pp. 223-242. (Available on JSTOR).

Clarke, Leonard W., 'Greek Astronomy and Its Debt to the Babylonians', *The British Journal for the History of Science*, Vol. 1, No. 1 (Jun., 1962), pp. 65-77. (Available on JSTOR).

Stanford Encyclopaedia

The *Stanford Encyclopaedia* is a highly reputable source. We do not require you to read every article through, but they are to be used.

Stanford Encyclopedia of Philosophy, 'Neoplatonism',
<https://plato.stanford.edu/entries/neoplatonism/>

Stanford Encyclopedia of Philosophy, 'Plotinus',
<https://plato.stanford.edu/entries/plotinus/>

Stanford Encyclopedia of Philosophy, 'Iamblichus',
<https://plato.stanford.edu/entries/iamblichus/>

Skyscape Archaeology/Archeoastronomy

The leading scholar in the Skyscape Archaeology/Archeoastronomy of the Greek world is Efrosyni Boutsikas. You will find her website with downloads of various of her papers at <https://www.kent.ac.uk/classics-archaeology/people/1750/boutsikas-efrosyni>

We suggest

Boutsikas, E. (2017) "The Role of Darkness in Ancient Greek Religion and Religious Practice", in Papadopoulos, C. and Moyes, H. (eds.) *The Oxford Handbook of Light in Archaeology*. Oxford: Oxford University Press. doi: 10.1093/oxfordhb/9780198788218.001.0001.
<https://kar.kent.ac.uk/59157/1/Oxford%20Handbook%202017-Boutsikas.pdf>

Optional Reading on the Soul

Bedford, Gary S, 'Notes on Mythological Psychology: Reimagining the Historical Psyche' *Journal of the American Academy of Religion*, Vol. 49, No. 2 (Jun., 1981), pp.231-47.

Broadie, Sarah, 'Soul and Body in Plato and Descartes', *Proceedings of the Aristotelian Society New Series*, Vol. 101, (2001), pp. 295-308. (Available on JSTOR).

Meyer, Marvin, *The Nag Hammadi Scriptures: The Revised and Updated Translations of Sacred Gnostic Texts*, published by Harper Collins, 2007. (Available in the University Online Library).

NB – This is a translation of the original Gnostic texts and thus is a primary source.

Noble, Christopher Issac, 'How Plotinus' Soul Animates his Body: The Argument for the Soul-Trace at Ennead 4.4.18.1-9', *Phronesis*, 2013, Vol. 58, No. 3 (2013), pp. 249-279

Rank, Otto et al, 'Psychology and the Soul' *Journal of Religion and Health* Vol. 35, No. 3 (Fall, 1996 [1930]), pp. 193-201. (Available on JSTOR)

Rowe, Christopher, 'Plato: aesthetics and psychology' in *Routledge History of Philosophy* Volume 1., Hoboken : Taylor & Francis, 1997, pp. 392-419; (Available in the Online Library)

Optional Reading – Further Works

There is a huge amount of possible optional reading. The following are all available to dip into if you wish.

Hengst, D. den, 'Ammianus Marcellinus on Astronomy (Res Gestae 20. 3)', *Mnemosyne*, Fourth Series, Vol. 39, Fasc. 1/2 (1986), pp. 136-141. (Available on JSTOR)

Kahn, Charles H., 'On Early Greek Astronomy', *The Journal of Hellenic Studies*, Vol. 90, (1970), pp. 99-116. (Available on JSTOR)

Nilsson, Martin P., 'The Origin of the Belief Among the Greeks in the Divinity of the Heavenly Bodies', *Harvard Theological Review*, January 1940, Vol. 33, pp, 1-8. (Available on JSTOR)

Nock, A.D. (1942), 'Religious Attitudes of the Ancient Greeks', *Proceedings of the American Philosophical Society*, Vol 85, No 5 (Sept. 30, 1942) pp 472-482. (Available on JSTOR)

Rawlins, Dennis, 'Eratosthenes' Geodesy Unraveled: Was There a High-Accuracy Hellenistic Astronomy?', *Isis*, Vol. 73, No. 2 (Jun., 1982), pp. 259-265. (Available on JSTOR)

Thurston, Hugh, 'Greek Mathematical Astronomy Reconsidered', *Isis*, Vol. 93, No. 1 (Mar., 2002), pp. 58-69. (Available on JSTOR)

Goldstein, Bernard R. and Alan C. Bowen, 'A New View of Early Greek Astronomy', *Isis*, Vol. 74, No. 3 (Sep., 1983), pp. 330-340. (Available on JSTOR)

Hon, Giora, 'There a Concept of Experimental Error in Greek Astronomy?', *The British Journal for the History of Science*, Vol. 22, No. 2 (Jul., 1989), pp. 129-150. (Available on JSTOR)

Evans, Godfrey, 'The Astronomy of Heracleides Ponticus', *The Classical Quarterly*, New Series, Vol. 20, No. 1 (May, 1970), pp. 102-111. (Available on JSTOR)

Aaboe, A., 'Scientific Astronomy in Antiquity', *Philosophical Transactions of the Royal Society of London*, Series A, Mathematical and Physical Sciences, Vol. 276, No. 1257, The Place of Astronomy in the Ancient World (May 2, 1974), pp. 21-42. (Available on JSTOR)

Stahl, William Harris, 'Astronomy and Geography in Macrobius', *Transactions and Proceedings of the American Philological Association*, Vol. 73, (1942), pp. 232-258. (Available on JSTOR)

Porter, Howard N. Porter, 'Hesiod and Aratus', *Transactions and Proceedings of the American Philological Association*, Vol. 77, (1946), pp. 158-170. (Available on JSTOR)

Komarowska, Joanna, 'The Lure of Egypt, or How to Sound Like a Reliable Souce', in Campion, Nicholas, Patrick Curry and Michael York (ed.) *Astrology and the Academy*, papers from the inaugural conference of the Sophia Centre, Bath Spa University College, 13-14 June 2003, Bristol: Cinnabar Books 2004, pp. 147-158,

Kouremenos, Theokritos, 'Aristotle on Geometric Perfection in the Physical World', *Mnemosyne*, Fourth Series, Vol. 56, Fasc. 4 (2003), pp. 463-479. (Available on JSTOR)

Bulmer-Thomas, Ivor, 'Plato's Astronomy', *The Classical Quarterly*, New Series, Vol. 34, No. 1 (1984), pp. 107-112. (Available on JSTOR)

Erhardt, Rudolf von and Erika von Erhardt-Siebold, 'The Helix in Plato's Astronomy', *Isis*, Vol. 34, No. 2 (Autumn, 1942), pp. 108-110. (Available on JSTOR)

Ernst Riess, "The Influence of Astrology on Life and Literature at Rome", *The Classical Weekly*, Vol. 27, No. 10 (Dec. 18, 1933), p. 73. (This paper was read at the Twenty-sixth Annual Meeting of The Classical Association of the Atlantic States, held at the Barnard College, Columbia University, April 28-29, 1933). (Available on JSTOR)

Taylor, A.E., 'A Note on Plato's Astronomy', *The Classical Review*, Vol. 49, No. 2 (May, 1935), pp. 53-56. (Available on JSTOR)

Gee, Emma, 'Cicero's Astronomy', *The Classical Quarterly*, New Series, Vol. 51, No. 2 (2001), pp. 520-536. (Available on JSTOR)

Stein, Joshua, 'Cicero's Use of Astronomy as Proof of the Existence of the Gods', *The Inspiration of Astronomical Phenomena: Proceedings of the fourth conference on the Inspiration of Astronomical Phenomena*, Magdalen College, Oxford, England, 3-9 August 2003, special issue of *Culture and Cosmos*, Vol. 8 no 1 and 2, Spring/Summer-Autumn/Winter 2004, pp. 423-435. (Available on Moodle in the MA CAA Online Library page)

Reiss, E., 'The Influence of Astrology on Life and Literature at Rome', *The Classical Weekly* Vol. 27, No 10 (Dec 18, 1933) pp 73-78. (Available on JSTOR)

Barton, Tamsyn, 'Augustus and Capricorn: Astrological Polyvalency and Imperial Rhetoric', *The Journal of Roman Studies*, Vol. 85, (1995), pp. 33-51. (Available on JSTOR)

Gurval, Robert A., 'Caesar's Comet: The Politics and Poetics of an Augustan Myth', *Memoirs of the American Academy in Rome*, Vol. 42, (1997), pp. 39-71. (Available on JSTOR)

Holliday, Peter J., 'Time, History, and Ritual on the Ara Pacis Augustae', *The Art Bulletin*, Vol. 72, No. 4 (Dec., 1990), pp. 542-557. (Available on JSTOR)

Dobbin, Robert F., 'Julius Caesar in Jupiter's Prophecy, "Aeneid", Book 1', *Classical Antiquity*, Vol. 14, No. 1 (Apr., 1995), pp. 5-40. (Available on JSTOR)

Weinstock, Stefan, 'Martianus Capella and the Cosmic System of the Etruscans', *The Journal of Roman Studies*, Vol. 36, Parts 1 and 2 (1946), pp. 101-129. (Available on JSTOR)

Ilitchi, Gabriela, "'Musica Mundana'", Aristotelian Natural Philosophy and Ptolemaic Astronomy, *Early Music History*, Vol. 21, (2002), pp. 37-74.
(Available on JSTOR)

Ramsey, John T., 'Mithridates, the Banner of Ch'ih-Yu, and the Comet Coin', *Harvard Studies in Classical Philology*, Vol. 99, (1999), pp. 197-253.
(Available on JSTOR)

Dicks, D.R., 'Astrology and Astronomy in Horace', *Hermes*, Vol. 91, No. 1 (1963), pp. 60-73. (Available on JSTOR)

Fox, Matthew, 'Stars in the "Fasti": Ideler (1825) and Ovid's Astronomy Revisited', *The American Journal of Philology*, Vol. 125, No. 1 (Spring, 2004), pp. 91-133. (Available on JSTOR)

Jones, Alexander, 'Pliny on the Planetary Cycles', *Phoenix*, Vol. 45, No. 2 (Summer, 1991), pp. 148-161. (Available on JSTOR)

Housman, A.E., 'Astrology in Dracontius', *The Classical Quarterly*, Vol. 4, No. 3 (Jul., 1910), pp. 191-195. (Available on JSTOR)

Edson, Evelyn and Emilie Savage-Smith, 'An Astrologer's Map: A Relic of Late Antiquity', *Imago Mundi*, Vol. 52, (2000), pp. 7-29. (Available on JSTOR)

Riley, Mark, 'Science and Tradition in the *Tetrabiblos*', *Proceedings of the American Philosophical Society*, Vol. 132, no 1, pp. 67-84, 1988. (Available on JSTOR)

Riley, Mark, 'Theoretical and Practical Astrology: Ptolemy and His Colleagues', *Transactions of the American Philological Association*, 117, (1987), pp. 235-256. (Available on JSTOR)

Anderson, J.G.C. (1912), Review, 'Astrology and Religion Among the Greeks and Romans' by Franz Cumont, *The Journal of Roman Studies* Vol 2 (1912), p. 114. (Available on JSTOR)

Hughes, George R., 'A Demotic Astrological Text', *Journal of Near Eastern Studies*, Vol. 10, No. 4 (Oct., 1951), pp. 256-264. (Available on JSTOR)

Keyser, Paul T., 'On Cometary Theory and Typology from Nechepso-Petosiris through Apuleius to Servius', *Mnemosyne*, Fourth Series, Vol. 47, Fasc. 5 (Nov., 1994), pp. 625-651. (Available on JSTOR)

Beard, Mary, 'Cicero and Divination: The Formation of a Latin Discourse', *The Journal of Roman Studies*, Vol. 76, (1986), pp. 33-46. (Available on JSTOR)

Bohleke, Briant, 'In Terms of Fate: A Survey of the Indigenous Egyptian Contribution to Ancient Astrology in Light of Papyrus CtYBR inv. 1132(B)', *Studien zur Altägyptischen Kultur*, Bd. 23, (1996), pp. 11-46. (Available on JSTOR)

Heilen, Stephan, 'Astrological Remarks on the New Horoscopes from Kellis', *Zeitschrift für Papyrologie und Epigraphik*, Bd. 146, (2004), pp. 131-136. (Available on JSTOR)

Optional Reading: Print

Should you wish to specialise in this area, for example, in your Dissertation, the range of literature expands considerably, and you may have to make use of library-loan facilities. Some students choose to buy second-hand copies, where cheap and available.

Primary Sources: Astrological Texts

The following are available as print only:

Dorotheus of Sidon, *Carmen Astrologicum*, ed and trans David Pingree, Leipzig 1976, BSG B.G. Teubner Verlagsgesellschaft. English edition only, Nottingham, Ascella Books 1993 with introduction by Nicholas Campion.

Hermes, *Liber Hermetis*, Part I, trans. Robert Zoller, Project Hindsight Latin Track Vol. II, Berkeley Springs, West Virginia: Golden Hind Press 1993.

Hermes, *Liber Hermetis*, Part II, trans. Robert Zoller, Project Hindsight Latin Track Vol. III, Berkeley Springs, West Virginia: Golden Hind Press 1993.

Hephaistio of Thebes, *Apotelesmatics*, trans. Robert Schmidt, 2 vols., Berkeley Springs WV: Golden Hind Press, 1994.

Paulus Alexandrinus, *Introductory Matters*, trans. Robert Schmidt, Berkeley Springs: Golden Hind Press, 1992.

Books in Print

The following are books you should buy or borrow (as appropriate) should you decide to specialise in this area. The titles indicate the relevance of the contents. Increasingly, though, books are uploaded and can be found online.

Psychology

Everson, Stephen (Ed.) *Companions to Ancient thought 2: Psychology*, Cambridge University Press, 1991. (Introduction)

Leahey, Thomas, *A History of Psychology: Main Currents in Psychological Thought* (Englewood Cliffs: Prentice-Hall, 1987).

Hermeticism and Gnosticism

Fowden, Garth, *The Egyptian Hermes: A Historical Approach to the Late Pagan Mind* (Cambridge: Cambridge University Press, 1986).

Jonas, Hans, *The Gnostic Religion* 2nd ed., rev. edn (Routledge, 1992).

Pagels, Elaine, *The Gnostic Gospels* (London: Orien, 2006).

Rudolph, Kurt and McLachlan Wilson, Robert, *Gnosis: The Nature and History of Gnosticism* (New York: HarperCollins Publishers, 1987).

History

Beck, Roger, *The Religion of the Mithras Cult in the Roman Empire: Mysteries of the Unconquered Sun*, Oxford: Oxford University Press, 2006.

Beck, Roger, *A Brief History of Ancient Astrology*, Oxford: Blackwell, 2007.

Cramer, Frederick H., *Astrology in Roman Law and Politics*, Chicago: Ares Publishers Inc 1996.

Crowe, Michael J., *Theories of the World from Antiquity to the Copernican Revolution*, Mineola New York: Dover Publications 2001.

A simple introduction to the mathematical models of Greek astronomy

Dodds, E.R., *The Greeks and the Irrational*, Los Angeles and London: University of California Press 1951. (Available on Google Books)

In contrast to the standards of rationality by which Greek culture is usually defined, Dodds gives a critical account of the irrational experience of the Greeks from Homer to the age of Roman rule, including an appendix on Neoplatonic theurgy.

Dreyer, J.L.E., *A History of Astronomy: From Thales to Kepler*, New York 1906 (now available from Ascella Publications).

Although written in 1906, this continues to remain an excellent discussion of the philosophies of the Early Greeks as they pertain to astronomy.

Guthrie, Kenneth Sylvan, trans. and Fideler, David, ed., *The Pythagorean Sourcebook and Library*, Grand Rapids, Michigan: Phanes Press, 1987.

Largest collection of Pythagorean writings and ancient biographies in English language.

Guthrie, W.K.C., *The Greek Philosophers, From Thales to Aristotle*, San Francisco: Harper and Row, 1975), esp. ch. 7, 'The Aristotelian Universe'.

Halsberghe, Gaston H., *The Cult of Sol Invictus*, Leiden: E.J. Brill 1972.

The seminal work on the official solar religion that preceded the introduction of Christianity as the Roman state religion. (Extracts on Google Books)

Harris, R. Baine, *Neoplatonism and Indian Thought*, Norfolk, VA: International Society for Neoplatonic Studies, 1982

Heath, Thomas L. *Greek Astronomy*, London: Dent 1932.

This is an anthology of important passages translated from Greek from the entire period from the Milesians to Ptolemy.

Holden, James Herschel, *A History of Horoscopic Astrology*, Tempe, Arizona: American Federation of Astrologers 1996, pp. 11-97

Inwood, Brad and L.P. Gerson, *Hellenistic Philosophy: Introductory Readings*, Indianapolis: Hackett Publishing Company 1997 [1988].

A very useful anthology of philosophical writings: useful context for cosmological ideas.

Kirk, G.S.; Raven, J.E.; Schofield, M., *The Presocratic Philosophers*, 2nd edition, Cambridge, London, New York etc., 1983.

A collection of all the fragments remaining from the Greek philosophers before Socrates which deal with cosmology.

Long, Anthony, 'Astrology: arguments pro and contra', *Science and Speculation*, Cambridge: Cambridge University Press, 1982, pp. 165-92.

Luck, Georg, *Acana Mundi: Magic and the Occult in the Greek and Roman Worlds*, John Hopkins University Press, 1985.

Succinct discussion and sourcebook of texts on magic, astrology, divination, alchemy, daemonology and miracles in antiquity.

Neugebauer, Otto and Van Hoesen, H.B., *Greek Horoscopes*. Philadelphia, The American Philosophical Society, 1987. This is the authoritative collection of extant Greek horoscopes (in fact mainly from the Roman period), along with translation and some commentary. This book also contains an excellent glossary of terms.

Noonan, George C., *Classical Scientific Astrology*, Tempe, Arizona: American Federation of Astrologers, 1984.

A very useful survey of the technical basis and techniques of Greek astrology.

Parisinou, Eva, *The Light of the Gods: The Role of Light in Archaic and Classical Greek Cults*, London: Duckworth, 2002.

Ramsey, John T., Licht, A. Lewis, *Caesar's Comet: The Comet of 44 BC and Caesar's Funeral Games*, Atlanta: Scholars' Press 1997.

An account of one of the most famous instances of the use of astrology for political purposes in the Roman Empire. There is a review of this work at

<http://ccat.sas.upenn.edu/bmcr/1997/97.08.07.html>

Sambursky, S., *The Physical World of Late Antiquity*, Princeton: Princeton University Press 1985 [1962].

An excellent account of the variety of explanations for celestial motion and action.

Siovarnes, Lucas, *Proclus: Neo-Platonic Philosophy and Science*, Edinburgh: Edinburgh University Press 1996.

Taub, Liba Chaia, *Ptolemy's Universe: The Natural, Philosophical and Ethical Foundations of Ptolemy's Astronomy*, Chicago and La Salle, Illinois: Open Court 1993.

An excellent account of Ptolemy's astronomy in the context of the times.

Wright, M.R., *Cosmology in Antiquity*, London: Routledge