

RECENT PUBLICATIONS RELATING TO THE HISTORY OF ASTRONOMY

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April 1996

— Books and Pamphlets —

Ad radices. Festband zum fünfzigjährigen Bestehen des Instituts für Geschichte der Naturwissenschaften der Johann Wolfgang Goethe-Universität Frankfurt am Main. Hrsg. von Anton von Gotstedter. Stuttgart, F. Steiner, 1994. xiv, 606 p. illus., port.

Partial contents: Das Institut in eigener Sache. Dechend, H. von. Erinnerungen an die Frühzeit des Instituts. Robin, H. Willy Hartner: in memoriam. Jordan, D. Die Institutsbibliothek. Schaldach, K. Das Ernst Zinner-Archiv. Promotionen zum Dr. phil. nat. am Institut für Geschichte der Naturwissenschaften Frankfurt am Main, 1943–1993.—Astronomie. Barow, M., and Y. Maezama. Neue Approximationen zur Kepler-Bewegung. Brack-Bernsen, L. Konsistenz zwischen Kolonne Φ und babylonischen Aufzeichnungen der 'Lunar Four.' Herbster, R. Saturn und Weltenwebe; ein Beitrag zur chinesischen Astralmythologie. Hogendijk, J. P. The qibla table in the Ashrafi Zij. Kennedy, E. S. The prime vertical method for the astrological houses as presented in Kāshī's Khāqān Zij. King, D. A. Astronomie im Dienste des Islam [first published in English in 1990] Maezama, Y. Synodische Perioden. North, J. D. The hippopede. Van Brummelen, G. A survey of the mathematical tables in Ptolemy's Almagest. Dalen, B. van. A table for the true solar longitude in the Jāmī' Zij.—Astronomische Instrumente. Ackermann, S. Mutabor: die Umarbeitung eines mittelalterlichen Astrolabs im 17. Jahrhundert. Glasemann, R. Zwei mittelalterliche französische Astrolabien. Lorch, R. Mischartabien im arabisch-islamischen Kulturgebiet. Maier, K. Bemerkungen zu romanischen Monatsnamen auf mittelalterlichen Astrolabien. Morrison, J. E. Updating the astrolabe. Rau, H., and K. Schaldach. Vertikalsonnenuhren des 6.–14. Jahrhunderts. Schmidl, P. Ein Astrolab aus dem 17. Jahrhundert prachtvoll und verfälscht. Staurz, B. Die früheste bekannte Formgebung der Astrolabien.—Philosophia naturalis. Schramm, M. Kritische Tage in Mikro- und Makrokosmos.

Aiton, Eric J. Astronomy in Harriot's time. Durham, University of Durham, 1994. 25 p. illus. (The Durham Thomas Harriot Seminar. Occasional paper, no. 15)

Contents: Astronomy in the time of Thomas Harriot.—Kepler's world harmony: human, natural and divine.

"The two lectures here printed were given respectively to the Thomas Harriot Seminar in September 1990 at Cambridge and to the International Christian University, Osaka, Japan in May 1990."

Astronomía y astrología, de los orígenes al Renacimiento. Aurelio Pérez Jiménez (ed.). Madrid, Ediciones Clásicas, 1994. 264 p. illus., facsimils. (Mediterranea)

Contents: Pérez Jiménez, A., and G. Cruz Andreotti. Presentación.—Pérez Jiménez, A. La doctrina de las

estrellas: tradición histórica de una ciencia.—Hoskin, M. A. Astronomía pregregia.—Calvo Martínez, J. L. La astrología como elemento del sincretismo religioso del helenismo tardío.—Lisi, F. L. Astrología, astronomía y filosofía de los principios en Platón.—Luque Moreno, J. Música celestial: astronomía y psicología en la teoría musical de los romanos.—Martínez Gázquez, J. Astronomía y astrología en Roma.—Vernet Ginés, J. Astrología árabe.—Samsó, J. La trepidación en Al-Andalus en el siglo XI.—Tihon, A. La astronomía en el mundo bizantino.—Sebastián López, S. La tradición astrológica en la España del Renacimiento.

Bianchini, Francesco. Observations concerning the planet Venus. Translated by Sally Beaumont, assisted by Peter Fay. Berlin, New York, Springer, 1996. 172 p. illus., facsimils.

Translation of *Hesperi et Phosphori nova phaenomena* (Romae, Apud J. M. Salvioni, 1728. 92 p.).

Boquet, Claudio J. La astrología en Valencia. Introducción a la historia de la astrología valenciana y estudio astrológico de la historia de Valencia. Valencia, Conselleria de Cultura, Educació i Ciència de la Generalitat Valenciana, 1990. 245 p. illus.

Includes information about individual astrologers (9th–18th centuries) and their writings.

Brisson, Luc, and F. Walter Meyerstein. Inventing the universe: Plato's Timaeus, the big bang, and the problem of scientific knowledge. Albany, State University of New York Press, 1995. 193 p. illus. (SUNY series in ancient Greek philosophy)

"This book is the authors' English revised version of their *Inventer l'Univers*, first published in Paris in 1991."

Bucciantini, Massimo. Contro Galileo: alle origini dell'affaire. Firenze, L. S. Olschki, 1995. 218 p. illus. (Biblioteca di Nuncius. Studi e testi, 19)

Burl, Aubrey. A guide to the stone circles of Britain, Ireland and Brittany. New Haven, Yale University Press, 1995. 276 p. illus., maps, plans.

"This Guidebook is intended to give as much help as possible for visitors to a stone circle. It contains not only the expected information about (1) the location and condition of a site; (2) the best approach to it; (3) its known archaeology, but it also offers (4) suggestions for making surveys of a circle's shape, size and possible astronomy. Such non-destructive work can add much to the understanding of almost any megalithic ring."

Campion, Nicholas. The great year: astrology, millenarianism and history in the Western tradition. London, New York, Arkana, Penguin Books, 1994. 696 p. illus.

Centième anniversaire de la naissance de Georges Lemaître, père du Big Bang. Journée scientifique du 7 octobre 1994 à Louvain-la-Neuve. Namur, Société scientifique de Bruxelles, 1995. 209–320 p. illus., maps, port. (Revue des questions scientifiques, t. 165, 3. trimestre 1994)

Partial contents: Journée scientifique du 7 octobre 1994 à Louvain-la-Neuve. 1. Macq, P. Ouverture de la séance académique. 2. Luminet, J. P. Qui est Georges Lemaître? 3. Demaret, J. Georges Lemaître, le Big Bang et la cosmologie moderne. 4. Heller, M. Lemaître, priest and scientist. 6. Kovalevsky, J. La mécanique céleste au XX^e siècle. 8. Pecker, J. C. L'univers connu au voisinage de l'an 2000.—Table ronde. 9. Audouze, J. Les sciences de l'Univers dans la société de demain.—Séance de clôture. 12. Crochet, M. Allocution. 13. Aguirre, I. de. Lemaître, professeur et chercheur.

Cochrane, Louise. Adelard of Bath, the first English scientist. London, British Museum Press, 1994. 125 p., [4] leaves of plates. illus.

See particularly the last three chapters, "Adelard and al-Khwārizmī's *Zij*" (p. 73–84), "Adelard and Astrology" (p. 85–96), and "The Astrolabe Treatise" (p. 97–106).

Colwell, Peter. Solving Kepler's equation over three centuries. Richmond, VA, Willmann-Bell, 1993. 202 p. illus.

Congreso Internacional "Ciencia, Descubrimiento y Mundo Colonial," Madrid, 1991. Mundialización de la ciencia y cultura nacional. Actas del Congreso Internacional "Ciencia, Descubrimiento y Mundo Colonial." A. Lafuente, A. Elena, M. L. Ortega (editores). Madrid, Doce Calles, 1993. 749 p. illus. (Colección Actas)

Partial contents: Keenan, P. C. Astronomy in the Vice-royalty of Peru.—Lértora Mendoza, C. A. Introducción de las teorías newtonianas en el Río de la Plata.—Ramos Lara, M. de La Paz, and J. J. Saldaña. Difusión de la mecánica newtoniana en la Nueva España.—Alvarez, H. Astronomy in Chile, 1849–1964.—Plotkin, H. Harvard College Observatory's Boyden Station in Peru: origin and formative years, 1879–1898.—Gingerich, O. Two astronomical jewels from Peru, 1889–1927.—Ten, A. E. Ciencias puras y prestigio nacional. Astronomía colonial y astronomía republicana en Sudamérica.

Cossard, Guido. Nove strade per la luna: senza il nostro satellite, lo sviluppo culturale dell'uomo sarebbe stato lo stesso? Presentazione di Walter Ferreri. Quart, Musumeci, 1994. 89 p. illus.

Dalen, Benno van. Ancient and mediaeval astronomical tables: mathematical structure and parameter values. Utrecht, Universiteit Utrecht, Wiskunde en Informatica, 1993. 226 p. illus.

Doel, Ronald E. Solar system astronomy in America: communities, patronage, and interdisciplinary science, 1920–1960. Cambridge, New York, Cambridge University Press, 1996. xiv, 280 p., [16] p. of plates. illus., ports.

Dunn, Richard S. Astrology in Harriot's time. Durham, University of Durham [1994?] 39 p. illus., facsimis. (The Durham Thomas Harriot Seminar. Occasional paper, no. 14)

Pages 32–38 are blank.

Eade, J. C. The calendrical systems of South-East Asia. Leiden, New York, E. J. Brill, 1995. 182 p., [3] leaves of plates. illus. (Handbuch der Orientalistik. 3. Abt., Südostasien, 9. Bd.)

Encuentro de Cosmovisión Andina "La Cruz Cuadrada," 1st, La Paz, Bolivia, 1994. La cruz escalonada andina. t. 2. La enigmática etnoastronomía andina. La Paz, Editor Centro de Cultura, Arquitectura y Arte Taipinquiri, 1995. 512 p. illus., plans, ports.

Partial contents: 1. Petricevic, D. O. de. Introducción al libro "La enigmática etnoastronomía andina." 3. Ponce Sanginés, C. Preámbulo sobre arqueo y etnoastronomía.—1. pte. Etnoastro-nomía andina. 4. Torre Ugarte Bustos, M. de la. Determinación de las posiciones de las constelaciones aymaras. 5. Eyzaguirre S., D. Astronomía aymara. 6. Tejeiro Peñaloza, A. Nociones de una astronomía aymara. 7. González Bravo, A. Urania altiplánica; recuerdos y anotaciones sobre astronomía indígena. 8. Lehmann-Nitsche, R. Coricancha. 9. Pucher de Kroll, L. El auquénido y cosmogonía amerasiana. 10. Milla Villena, C. La constelación de la Cruz del sur. 11. Bustinza Menéndez, J. A. Las manchas negras de la Vía Láctea.—2. pte. Arqueoastronomía andina. 12. Rivera Sundt, O. La Horca del inka. 13. Cruz Zapata, J. de la, and M. Angel Vargas. Alineaciones astronómicas observadas en el cerro Kesani 4000 m.s.n.m.—4. pte. Calendario andino. 18. Condarcó Morales, R. Astronomía y calendario. 19. Soria Lens, L. El calendario aymara. 20. Valcárcel, L. E. El calendario andino [translated by C. Ponce Sanginés]

Ernst, Germana. Religione, ragione e natura; ricerche su Tommaso Campanella e il tardo Rinascimento. pte. 2. Astrologia, profezia e magia. Milano, F. Angeli, 1991. (Collana di filosofia, 41) p. 165–279. facsimis.

Contents: 7. I poteri delle streghe tra cause naturali e interventi diabolici.—8. "Veritatis amor dulcissimus". Aspetti dell'astrologia in Cardano.—9. Astrologia e critica del soprannaturale in Vanni.—10. Nuovi cieli e nuovi secoli. Astrologia e profezia in Campanella e Galileo.—11. Dalla Bolla "Coeli et terrae" all'"Inscrutabilis". L'astrologia tra natura, religione e politica nell'età della Controriforma.

The illustrations appear on p. 158–164.

Chapter 8, "Veritatis amor dulcissimus," is reprinted, with some revisions, in *Girolamo Cardano: Philosoph, Naturforscher, Arzt*, edited by Eckhard Kessler, p. 157–184 (Wiesbaden, Harrassowitz, 1994. Wolfenbütteler Abhandlungen zur Renaissanceforschung, Bd. 15).

Firmicus Maternus, Julius. Mathesis. Texte établi et traduit par P. Monat. Paris, Les Belles lettres, 1992–94. 2 v. illus. (Collection des universités de France. Série latine, 304, 316)

French and Latin on facing pages.

Contents: t. 1. Livres I–II.—t. 2. Livres III–V.

"La *Mathesis*, (ou *Traité d'astrologie*), est l'ouvrage d'astrologie le plus complet de ceux que nous a laissés l'Antiquité, et, après le poème de Manilius, les *Astronomica*, le premier traité didactique d'astrologie en prose latine."

Presumably a translation of books VI–VIII will be forthcoming.

Gallant, Roy A. *The day the sky split apart: investigating a cosmic mystery*. New York, Atheneum Books for Young Readers, 1995. 156 p. illus., maps, ports.

On the Tunguska event. The author participated in an expedition to the site in 1992.

Gardner, Robert. *Experimenting with time*. New York, F. Watts, 1995. 160 p. illus., maps. (A Venture book)

Gatto, Romano. *Tra scienza e immaginazione. Le matematiche presso il Collegio gesuitico napoletano (1552-1670 ca.)*. Firenze, L. S. Olschki, 1994. 392 p. illus. (Biblioteca di Nuncius. Studi e testi, 14)

Contents: 1. La nascita e i primi sviluppi scientifici del Collegio gesuitico napoletano.—2. Tra Copernico e la nuova astronomia.—3. Gli allievi di Staserio.—4. Tra atomi e corpuscoli.

Gent, Rob H. van. *De reizende astronoom: Nederlandse sterrenkundige expedities naar de Oost en de West*. Leiden, Museum Boerhaave, 1993. 32 p. illus. (Museum Boerhaave. Mededeling, 256)

Catalog of an exhibition held May 17-Sept. 26, 1993.

Gent, Rob H. van, and J. H. Leopold. *The time-keepers of Leiden Observatory*. Leiden, Museum Boerhaave, 1992. 48 p. illus., plan, ports. (Museum Boerhaave. Communication, 256)

Translation of *De Tijdmeters van de Leidse Sterrewacht*.

Gingrich, Andre. *Südwestarabische Sternenkalender. Eine ethnologische Studie zu Struktur, Kontext und regionalem Vergleich des tribalen Agrarkalenders der Munebbih im Jemen*. Wien, WUV Universitätsverlag, 1994. 350 p. illus., maps, plans. (Wiener Beiträge zur Ethnologie und Anthropologie, Bd. 7)

Greenberg, John L. *The problem of the earth's shape from Newton to Clairaut; the rise of mathematical science in eighteenth-century Paris and the fall of "normal" science*. Cambridge, New York, Cambridge University Press, 1995. xviii, 781 p. illus.

Guglielmini, Giambattista. *Carteggio. De diurno terrae motu*. Canterzani, Isolani, Matteucci, Bonfioli Malvezzi, Caldani, Calandrelli, Bonati. A cura di Maria Teresa Borgato e Alessandra Fiocca. Firenze, L. S. Olschki, 1994. 241 p. illus. (Archivio della corrispondenza degli scienziati italiani, 11)

Hahn, Roger. *The new calendar of the correspondence of Pierre Simon Laplace*. Berkeley, Office for History of Science and Technology, University of California at Berkeley, 1994. 123 p. (Berkeley papers in history of science, 16)

Hamann, Günther. *Die Welt begreifen und erfahren. Aufsätze zur Wissenschafts- und Entdeckungsgeschichte*. Im Auftrag der Österreichischen Gesellschaft für Wissenschaftsgeschichte hrsg. von Johannes Dörflinger, Helmuth Grössing, Karl Kadletz und Marianne Klemun. Mit einem Beitrag von Karl R. Wernhart. Wien, Böhlau, 1993. 390 p. illus. (Perspektiven der Wissenschaftsgeschichte, Bd. 1)

Partial contents: Albrecht Dürers Erd- und Himmelskarten (1971).—Johannes Regiomontanus, 1436-1476; die Schauplätze seines Lebens und Wirkens (1980).—Der Galilei-Prozess (12. April-22. Juni 1633) (1984).

A Heavenly library: treasures from the Royal Observatory's Crawford Collection. An exhibition held at the National Museum of Scotland, Chambers Street, Edinburgh, 8 October-31 December 1994. Compiled by Angus Macdonald and A. D. Morrison-Low, with contributions by Owen Gingerich, Angus Macdonald, A. D. Morrison-Low and Liba C. Taub. Edinburgh, Royal Observatory, National Museum of Scotland, 1994. 72 p. illus. (part col.), facsimis. (part col.)

Contents: Macdonald, A. R., and A. D. Morrison-Low. Acknowledgements.—Pitt, S. Preface.—Gingerich, O. The Crawford treasures: a personal view.—Macdonald, A. R. The Crawford Library of the Royal Observatory, Edinburgh.—Macdonald, A. R., A. D. Morrison-Low, O. Gingerich, and L. C. Taub. Catalogue.

Henriksen, Ole B. *Ole Rømer: på stjernernes vej*. Århus, Aros, 1994. 160 p. illus.

English summary: p. 150.

Henríquez Pérez, Bruno. *Marte: mito y realidad*. La Habana, Editorial Científico-Técnica, 1994. 87 p. illus. (Pinos nuevos)

Contents: 1. Preludio a Marte.—2. Marte y la mitología.—3. Historia de las observaciones.—4. Los nuevos mitos.

Ilgauds, Hans J., and Gisela Münzel. *Die Leipziger Universitätssternwarten auf der Pleissenburg und im Johannistal: astronomische Schulen von Weltruf*. Beucha, Sax-Verlag, 1995. 56 p. illus. (Leipziger Hefte)

In de zevende hemel. Opstellen voor P. E. L. Verkuyl over literatuur en kosmos. Onder redactie van H. van Dijk, M. H. Schenkeveld-van der Dussen, J. M. J. Sicking. Groningen, Passage, 1993. 216 p. illus., facsimis.

Partial contents: Dichters over zon en sterren. Grootes, E. K. *De zon in Bredero's lyriek*. Leerintveld, A. *De 'S' van Sterre*. Dorleijn, G. J. 'Geen ster zal thans de gids meer zijn'. Over oude, nieuwe en verdwenen sterren bij M. Nijhoff. Sicking, J. M. J. Het gedicht van de man die bij de sterren sliep. Oever, A. M. A. van den. 'Sterren reizen langs het raam'; enkele kanttekeningen bij de interpretatie van metaforen.—Wat staat er in de sterren geschreven? Zieleman, G. C. *Geert Grote, de zogenaamde Zwolse preken en de astrologie*. Huizinga, E. *Vanden XII teikenen des hemels; mogelijkheden en moeilijkheden bij de localisering van een Middelnederlandse codex met gebruik van horoscopen*. Spies, M. 'Astronomia die haer constich gheneert inden loop des hemels'; sterrenkunde op het Antwerps landjuweel. Blommendaal, J. L. P. *Ganymedes en Aquarius*.—Onheilspellende voortekens. Oostrom, F. van. *Sompniarys: Maerlants dromen geduid?* Gijsen, A. van. De 'Vierde Martijn' en de komeet van 1299. Duits, H. Onheilspellende voortekenen in Hooft's 'Henrik de Gróte' (1626). Gemert, L. van. Zeventiende-eeuwse medici en de duistere krachten der kosmos. Jacobs, A. 'De daghnacht van de schaarse maanson'; over een gedicht van J. Six van Chandelier op de zoneclips van 1654. Strien, T. van. *De zeven planeten volgens Jeremias de Decker*. Harmsen, T. Nicolaus Heinsius en het 'Theatrum cometicum' van Stanislaus Lubieniecki. Buijnsters, P. J. Een zeventiende-eeuws lotboekje: 'Vermakelyke Oraculen'.—Hemelse visioenen en een aards paradijs. Tersteeg, J. Met Hadewijch in de zevende hemel; bijdrage tot een interpretatie van het vierde visioen. Vries,

W. B. de. Huygens' reis naar de derde hemel en weer terug; 'Hofwijck' r. 1293–1324. Bostoens, K. Paradijs van het noorden of des duivels oorkussen.—Hemelse zinnebeelden. Scholz, B. F. De Zon en haar schaduw als 'res significans' in Michael Maiers 'Atalanta Fugiens' (1618). Streekstra, N. F. Spheares en hemel-bollen bij Donne en Huygens. Schenkeveld-van der Dussen, R. Een dominee als kosmololoog.—Planeten als goden. Poel, D. E. van der. De rol van Venus in 'Vanden Winter ende vanden Somer.' Leferink, H. Mars en Venus in de zevende hemel. Bax, M., and W. Vuijk. Planeten tussen de lakens; H. K. Poots 'Mars en Venus beddepraet': hoerenlied of levenslied?—Een lexicograaf en een methodoloog. Sterkenburg, P. G. J. van. Wat heeft hedendaags 'globaal' met 'shaera' van doen? Berndsen, F. Kosmologie en methodologie: tien punten.

Jager, Cornelis de, Hendrik G. van Bueren, and M. Kuperus. Bolwerk van de sterren. Amersfoort, Bekking, 1993. 219 p. illus. (part col.)

Published to commemorate the 350th anniversary of the study of astronomy in Utrecht.

The John Herschel bicentennial symposium, held in Herschel School, Claremont, 6 March 1992. Edited by Brian Warner. [Cape Town?] Royal Society of South Africa [1993?] 140 p. illus., facsimils., ports.

Contents: Hoskin, M. A. John Herschel and astronomy: a bicentennial appraisal.—Warner, B. Sir John Herschel at the Cape of Good Hope.—Crowe, M. J. John Herschel: Britain's first modern physical scientist.—Rourke, J. P. John Herschel and the Cape flora, 1834–1839.—Schaaf, L. J. John Herschel, photography and the camera lucida.—Spargo, P. E. Foundations strong and lasting—Herschel's work in education at the Cape.—Crowe, M. J. The John Herschel Correspondence Project.—Appendix I. Herschel, Sir J. F. W. Address to the young gentlemen of the mathematical classes in the South African College at the Cape of Good Hope—Dec. 1834.—Appendix II. Crowe, M. J. Bibliography of the publications of Sir John Herschel.

Lemcke, Mechthild. Johannes Kepler. Reinbek bei Hamburg, Rowohlt, 1995. 174 p. illus., facsimils., ports. (Rowohlt Monographien, 529)

Leverington, David. A history of astronomy from 1890 to the present. London, New York, Springer-Verlag, 1995. 365, [22] p. illus., ports.

Liller, William. The ancient solar observatories of Rapanui: the archaeoastronomy of Easter Island. Old Bridge, NJ, Cloud Mountain Press, 1993. 61 p. illus., maps, plans. (The Easter Island series)

Contents: pt. 1. Temples, shrines, and sacred stones.—pt. 2. Legends and mythologies, eclipses and comets.—pt. 3. Elsewhere in Polynesia.—pt. 4. Conclusions.

Lorch, Richard. Arabic mathematical sciences: instruments, texts, transmission. Aldershot, Hants., Variorum; Brookfield, Vt., Ashgate Pub. Co., 1995. [343], 10 p. illus., facsimils. (Collected studies series, CS517)

Includes text in Arabic.

Partial contents: 5. Some remarks on the *Almagestum parvum* (1992).—6. The astronomy of Jābir ibn Aflah

(1975).—7. Appendix 1 to item VI. The manuscripts of Jābir b. Aflah's treatise (first publication).—8. Appendix 2 to item VI. Jābir ibn Aflah and the establishment of trigonometry in the West (first publication).—11. Al-Khāzinī's "Sphere That Rotates by Itself" (1980).—12. The *sphera solida* and related instruments (1980).—13. Ḥabash al-Ḥāsib's book on the sphere and its use (with P. Kunitzsch, 1985).—14. The *qibla*-table attributed to al-Khāzinī (1980).—15. Al-Khāzinī's balance clock and the Chinese steelyard clepsydra (1981).—16. The astronomical instruments of Jābir ibn Aflah and the torquetum (1976).—17. A note on the horary quadrant (1981).—18. Al-Ṣaghānī's treatise on projecting the sphere (1987).

Maiello, Francesco. Storia del calendario; la misurazione del tempo, 1450–1800. Torino, G. Einaudi, 1994. 235 p., [4] leaves of plates. illus., facsimils. (Biblioteca di cultura storica, 203)

Manzino, Mariacarla, and Mariacristina Manzino. Concordanze degli Astronomici di Manilio. Genova, D.AR.FI.CL.ET, 1991–92. 2 v. (Pubblicazioni del D.AR.FI.CL.ET., nuova ser., 142, 144)

Maranini, Anna. Filologia fantastica: Manilio e i suoi "Astronomici." Bologna, Il Mulino, 1994. 476 p. (Ricerca "Appendici" (p. 347–371) include lists of manuscripts and published editions of Manilius and provide library locations of editions with handwritten annotations.

Martínez del Sobral, Margarita, and María E. Landa Abrego. El caminante celeste. Puebla, Gobierno del Estado de Puebla, 1990. 243 p. illus. (part col.) (Colección V centenario)

Detailed examination of a jade statuette of Tlahuizcalpantecutli, "El Caminante Celeste," which is said to represent the planet Venus.

"En cuanto a la astronomía, la escultura nos enseña que creyeron que el Sol está en el centro del Sistema Solar, que Mercurio y Venus son planetas interiores; que la superficie de la Tierra (TLALTICPAC) es circular; que el trópico de Cáncer se encuentra más o menos a 24 grados de inclinación con respecto al ecuador celeste; que la estrella Polar era el punto buscado como punto inamovible del Universo y que alrededor de ella giran las estrellas circumpolares; que el Sistema Solar es solamente una parte de nuestro Universo y que la forma de la órbita de Venus vista desde un punto fijo de la Tierra, es elíptica."

Maury, Jean P. Newton, the father of modern astronomy. [Translated from the French by I. Mark Paris] New York, H. N. Abrams, 1992. 143 p. illus. (part col.), col. maps, ports. (part col.) (Discoveries)

Published in London as *Newton: Understanding the Cosmos*.

Contents: 1. Isaac Newton's vacation.—2. The birth of modern astronomy.—3. From the reflecting telescope to gravitation.—4. Universal gravitation at last!—5. From triumph to triumph.—Documents.

Meinzer, Michael. Der französische Revolutionskalender (1792–1805). Planung, Durchführung und Scheitern einer politischen Zeitrechnung. München, R. Oldenbourg, 1992. 307 p. illus. (Ancien régime, Aufklärung und Revolution, Bd. 20)

Mittelstrass, Jürgen. *Machina mundi. Zum astronomischen Weltbild der Renaissance.* Basel, Helbing & Lichtenhahn, 1995. 31 p. facsim. (Vorträge der Aeneas-Silvius-Stiftung an der Universität Basel, 31)

Motz, Lloyd, and Jefferson H. Weaver. *The story of astronomy.* New York, Plenum Press, 1995. 387 p. illus., ports.

Palomino Díaz, Julio. *Intiwaranas y numeros; ciencia del pasado andino.* Qosqo, Municipalidad del Qosqo, 1994. 114 p., [6] leaves of plates. illus. (part col.)

"Una prodigiosa matemática rescatada del olvido, en el singular observatorio astronómico de Suchuna, Saqsaywaman-Qosqo."

Concerns the Sacsahuaman site at Cuzco.

Pelosi, Pietro. *Leopardi fisico e metafisico.* 2. ed. riv. e ampliata. Napoli, Federico & Ardia, 1991. 212 p. (Dal certo al vero, 5)

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Additional information relating to celestial cartography and applications of astronomy to terrestrial mapping can be found through the very detailed index. Among relevant headings are: Armillary spheres, Asterisms, Astrography, Astrolabes, Astrology, Astronomy, Calendars, Celestial globes, Celestial mapping, Comets, Constellations (and names of individual constellations), Eclipses, Ecliptics, Equator, celestial, Equinoctial points, Equinoxes, Hemispheres, celestial, Lunar lodges (and names of lunar lodges), Moon, Planets (and names of the planets), Solar system, Solar eclipses, Solstices, Stars, Sun, and Zodiac.
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and the general iconography of Late Renaissance decorative cycles employing maps. The results of these studies have been drawn on and refined, but this essay for the first time pays particular attention to the visual and narrative structures of both individual compositions and the entire ensemble. These structures suggest certain intentional programmatic meanings, but, if understood as an unstable, complex, multivalent sign system, the decoration can also be seen to expose unintentional fissures or faults within the underlying ideologies.”

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