# Altea Gallery e-catalogue 16 Astronomy

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Prices are quoted in UK Pound Sterling £/GBP).

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# Astronomy

e-Catalogue 16: February 2022



Detail item 9.

Dear Customer

Our latest e-catalogue is a selection of our stock of celestial maps and related items, dating from the 15<sup>th</sup> to the 20<sup>th</sup> centuries, with a large selection of the superb charts of Andreas Cellarius. and three large wall maps of the moon.

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#### An account of recent advances in Astronomy and Geography



#### 1 DELISLE, Joseph Nicolas.

Mémoires pour Servir a l'Histoire et au Progrès de l'Astronomie, de la Geography, & de la Physique.

St Petersburg: Academy of Sciences, 1738, First Edition. 4to; full calf gilt, inner hinges strained; pp. 284 + (12)(tables),13 folding engraved plates. With the bookplate of Frank S. Streeter.£3,000

The first edition of this account of the advancements in the fields of Astronomy (as an aid to navigation), Geography and Physics, which includes the first accounts of Delisle's method for determining the heliocentric coordinates of sunspots, of his 'universal thermometer', and of the Aurora Borealis in Russia by his brother Louis.

Joseph Nicolas Delisle (1688-1741), a French astronomer and cartographer, founded the Academy of Sciences of St Petersburg and helped compile the 'Atlas Russicus', the first atlas of Russia.

Frank Sherwin Streeter was a book collector for forty years, from around 1966 until his death in 2006, specialising in atlases, books, pamphlets and maps on maritime exploration, as well as more theoretical works on mathematics and cosmography related to navigation. His collection sold at Christies in 2007.

#### A scarce complete set of celestial cards in its original box



#### 2 BLUNT, Charles F.

The Beauty of the Heavens: A Pictorial Display of The Astronomical Phenomena of the Universe. Exhibiting n One Hundred and Four Coloured Scenes, Accompanying and Illustrating A Familiar Lecture on Astronomy.

London: Whitehead & Co & Ackermann & Co, 1840, First Edition. Original box simulating a book, with half morocco, gilt illustrated on front board; with small 4to pamphlet with cloth gilt wrappers, pp. viii + 104; 104 loose numbered colour lithographic cards, as called for. A little spotting to plates, slight damp staining on pamphlet. £3,500

A very fine example of this set of decorative cards, designed to teach astronomy, with illustrations of the Sun, Moon, Earth and other planets, constellations and other bodies of the universe, as well as climatic phenomena such as the Aurora Borealis, clouds and the rainbow. Each card is explained in the enclosed pamphlet.



#### An incunable depiction of the sun and moon

#### 3 SCHEDEL, D. Hartmann.

#### Blat LXXVI.

Nuremberg, Anton Koberger, 1493, German text edition. Woodcut, image 80 x 80mm, set in text with woodcut portraits. Some old ink mss. marginalia, some damp staining. £425

A sheet from the famous 'Nuremberg Chronicle', with a woodblock of the sun and moon, both with faces. The other woodcuts are portrait of Greeks and Romans, including Philip II of Macedon and his wife Olympias, parents of Alexander the Great.

S/N 20532



#### Four theories of the Sun, Moon and Earth

#### 4 HAPPEL, Eberhard Werner.

[The surfaces of the Sun and Moon, and the subterranean lava and river flows of Earth.]

Hamburg: Hertel Weiring, 1683. Four engravings, sheets 200 x 150mm. One plate with a repaired tear in the margin. £1800

Four engravings based on Athanasius Kircher's Cosmography, illustrating contemporary theories of the construction of Sun, Moon and Earth. All have titles on banners held aloft by flying cherubs; two are signed by the engraver Joachim Wichmann (1648-1703).

The plates were published in "E. G. Happelii Gröste Denkwürdigkeiten der Welt Oder so genannte Relationes Curiosae", a compilation of current scientific thought.



#### The iconic depiction of the Copernican solar system



#### 6 CELLARIUS, Andreas.

Scenographia Systematis Copernicani.

*Amsterdam, Schenk & Valk, 1708. Original colour with additions, including gold highlights.* 440 x 515mm, with good margins. £6,500

The most famous Dutch celestial chart, showing the heliocentric solar system as theorised by Nicolaus Copernicus. A human-faced sun dominates the plate, lighting the sides of four 'Earths', positioned at each equinox, all showing California as an island a circling Moon. Rings mark the orbits of the known planets, within a band decorated with the signs of the Zodiac.

The four corners are filled with angels, cherubs and allegorical figures.

It was engraved by Jan van Loon and for the 'Atlas Coelestis; seu Harmonia Macrocosmica', first published by Jan Jansson in 1660. This was the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced. *KOEMAN: Cel 3.* 

#### A superb plan of the Copernican Solar System



#### 6 CELLARIUS, Andreas.

Planisphaerium Copernicanum Sive Systeme Universi Totius Creati ex Hypothesi Copernicana in Plano Exhibitum.

*Amsterdam, Schenk & Valk, 1708. Original colour with additions, including gold highlights.* 440 x 515mm, with generous margins. A few small repairs to verdigris weaknesses. £3,500

A beautiful chart of the solar system as hypothesised by Copernicus, with the Sun at the centre and the six known planets (Saturn the outermost) in rings around it. A final circle contains the signs of the Zodiac. The upper corners of the plate contain the title within two large cartouches; the lower corners full-length portraits of Gallileo and Copernicus.

This chart was published in the 'Atlas Coelestis; seu Harmonia Macrocosmica', the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced.

It was originally published by Jan Jansson in 1660: this chart comes from Schenk & Valk's reissue. *KOEMAN: Cel 3.* 

#### 17th century celestial chart of the Earth in Ptolemy's Universe



#### 7 CELLARIUS, Andreas.

Scenographia systematis mundani Ptolemaici.

*Amsterdam, Schenk & Valk, 1708. Original colour with additions, including gold highlights.* 440 x 515mm. A few small repairs to verdigris weakesses. £2,700

A beautiful celestial chart showing Ptolemy's theory of the Universe. At the centre is the Earth, showing its eastern hemisphere, being circles by the sun and planets, with the Zodiac on an outer ring. The borders contain the title on banners held up by putti and angels, with astronomers, including Ptolemy surrounded by globes, cross-staffs and other navigational instruments.

This chart was published in the 'Atlas Coelestis; seu Harmonia Macrocosmica', the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced.

It was originally published by Jan Jansson in 1660: this chart comes from Schenk & Valk's reissue. *KOEMAN: Cel* 3.

#### The apparent path of the Sun around the Earth



#### 8 CELLARIUS, Andreas.

Solis Circa Orbem Terrarum Spiralis Revolutio.

Amsterdam, Schenk & Valk, 1708. Original colour with additions, including gold highlights. 440 x 515mm. £2,700

A beautiful celestial sphere showing the apparent spiral revolution of the sun around the Earth. with the signs of the zodiac shown on a central band. The borders contain the title on banners, with two putti with birds on strings.

This beautiful chart was published in the 'Atlas Coelestis; seu Harmonia Macrocosmica', the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced.

It was originally published by Jan Jansson in 1660: this chart comes from Schenk & Valk's reissue. *KOEMAN: Cel* 3.

#### Ptolemy's model of the Solar System



#### 9 CELLARIUS, Andreas.

Planisphaerium Ptolemaicum, Sive Machina Orbium Mundi Ex Hypothesi Ptolemaica In Planno Disposita.

Amsterdam, Schenk & Valk, 1708. Original colour with additions. 440 x 515mm.

£3,200

A superbly decorated map illustrating Ptolemy's geocentric Solar System. At the centre is the world, showing the Northern Hemisphere (with California as an island), surrounded by rings of cloud and fire, followed by the orbits of the Moon, Sun and the known planets, represented by the Roman gods in chariots. Bottom right is a portrait of Cladius Ptolemy; bottom left is another astronomer, believed to be Aristotle.

It was engraved by Jan van Loon and published in the 'Atlas Coelestis; seu Harmonia Macrocosmica', the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced.

Originally published by Jan Jansson in 1660, this example comes from Schenk & Valk's reissue.

#### 18th century map of the Sun

#### 10 THOMAS, Corbinianus.

Systema Solis ex Observationibus P. Kircheri.

Frankfurt, 1730. Original colour. 125 x270mm.£300

An unusal attempt to depict the surface of the Sun, based on the work of Athanasius Kircher. It was engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

Corbinianus Thomas (1694-1767), a Benedictine monk, was Professor of Mathematics and Theology at the University of Salzburg. His star atlas was first published in 1730 at



Frankfurt, with a second edition at Augsburg the following year. He used an odd system for nomenclature: Bayer Greek letter for the star, Roman numeral for the magnitude and Arabic numeral for the star catalogue reference. *KANAS: 7.7, 'beautiful illustrations'; WARNER, p.*251.

S/N 21479

#### 18th century illustration of the Solar System of the Ancient Egyptians

#### 11 THOMAS, Corbinianus.

Systema Mundi Aegyptiacum.

Frankfurt, 1730. Original colour. 145 x 140mm. £280

A chart of the Egyptian solar system, surrounded with their Zodiac, engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

Corbinianus Thomas (1694-1767), a Benedictine monk, was Professor of Mathematics and Theology at the University of Salzburg. His star atlas was first published in 1730 at Frankfurt, with a second edition at Augsburg the following year. He used an odd system for nomenclature: Bayer



Greek letter for the star, Roman numeral for the magnitude and Arabic numeral for the star catalogue reference. *KANAS:* 7.7, '*beautiful illustrations*'; WARNER, p.251.

#### The path of the 1706 total solar eclipse over Europe

# 12 DOPPELMAYR, Johann Gabriel.

Eclipseos Solis Totalis cum mora, d.12 Maji 1706, horis autem: in Europa celebratae...

Amsterdam: Pieter Schenk, c.1710.Original colour. 485 x 570mm. Minorrepairs in bottom margin.£1,000

A rare map of the route of the 1706 solar eclipse across Europe, which was total across southern Spain and France, central Germany, northern Poland, Livonia, eastern Finland Russian Lapland. One diagram explains the science of an eclipse and another predicts the path of the 1715 eclipse, the one observed by Halley.



S/N 18580

#### A plan of eclipses over England in the 18th century

#### 13 DUNN, Samuel.

A Map Exhibiting the Dark Shadow of the Moon over England and other parts of Europe, in the Five Great Solar Eclipses, Of the Years, 1715, 1724, 1737, 1748 and 1764.

London: Laurie & Whittle, 1794. Original outline colour. 315 x 310mm, with wide margins. £350

An unusual and separately published circular map, centred on London, showing the paths of total (1715, 1724) and partial (1737, 1748, 1764) solar eclipses that were visible from Europe. The extent of the map includes Ireland, England, Scotland, and parts of continental Europe including Germany and France. Each eclipse is labelled with its date and depicted as a shadowed path. The shadowed path design is visually impactful and a clear way to communicate how the moon passes in front of the sun.



#### A scarce broadsheet guide to a 19th century solar eclipse in Philadelphia

#### 14 POULSON, John.

Approaching Solar Eclipse. The lovers of Astronomical Science will perhaps be highly gratified with the opportunity which may on Monday be afforded them, of beholding this interesting phenomenon...

Philadelphia: printed by John Poulson, n.d.,<br/>but 1806. Letterpress broadsheet with wood-<br/>engraved diagram and border. Sheet 535 x<br/>220mm. Repair to split in fold repaired with<br/>loss of a line of text; a few other letters mis-<br/>inked. $\pounds 2,800$ 

Broadsheet with a wood engraved diagram of the phases of the solar eclipse due on June 16, 1806, as seen from Philadelphia.



#### A large and important 19th century map of the Moon



#### 15 GAUDIBERT, Casimir Marie.

Carte Général de la Lune Dressé sous la Direction de Camille Flammarion Par C.M. Gaubibert. Dessinée par Léon Fenet.

Paris: Émile Bertaux, 1877. Heliogravure. Sheet 1210 x 895mm. Minor repairs, laid on linen. £6,500

A rare map of the Moon, compiled by Léon Fenet from the observations of Casimir Marie Gaudibert (1823-1901), overseen by Camille Flammarion (1842-1925), founder and first president of the 'Société astronomique de France'. Around the map is a key of 509 craters.

Despite being an amateur astronomer, Gaudibert was praised for the precision of his observations, taking over 15 years. His fame was extended when Bertaux, the publisher of this map, created a lunar globe from his data. A crater on the Moon has been named in his honour.

# A wall map of the Moon in preparation for the Lunar Landing



#### 16 UNITED STATES AIR FORCE.

USAF Lunar Wall Mosaic. LEM-1B.

*Washington, D.C.: Superintendent of Documents US Government Printing Office, 1966. Lithograph on two sheets conjoined, total printed area 1460 x 1550mm, linen-backed on rollers, as issued. Slightly trimmed at sides, as issued, with about 10mm loss of lettering on each side.* £5,000

A huge map of the moon using an orthographic projection (i.e., as a sphere viewed from an infinite distance), compiled from hundreds of photographs, created during NASA's planning of the first Lunar Landing, that of Apollo 11 in 1969.

The first 'USAF Lunar Reference Mosaic' was published in 1960 in two scales, 1:10 million & 1:5 million, but recompiled with improved photographic imagery in 1962, and issued with a third, larger scale, 1:2.5 million, as the Wall Mosaic (LEM-1B). This example is a second edition of the third, printed in blue and grey on a black background. Such is the size that the moon's diameter measures 1.39 metres. It was the USAF rather than NASA that produced the map because the project started before NASA was created in 1958.

The condition of this example is superb, with no damage or stains, with unfaded colour.

#### A plan of the Moon published for the 1969 landing



#### 17 HÖLZEL, F.

Mond. Moon. Lune. 1969.

London: London Plan Publishing Co London Ltd, 1969. Colour printed map. Sheet 1040 x 885mm. Original folds flattened, laid on linen. £1,500

A map of the moon based on the view from a telescope, with text in German, English and French, published for the 1969 Moon landing. The features of the Moon are named and the sites of the American and Russian probes marked. Around the globe is a calendar of the waxing and waning of the Moon for 1969.

#### A rare lunar relief globe celebrating man reaching the Moon

#### 18 WIGHTMAN, A. J.

#### [A hand-made 12" lunar relief globe.]

Penzance: Lunasphere Productions Ltd. 1969. 61cm (24") diameter, fibreglass sphere with white painted highlights, lettered with Letraset and painted mss, seated in plastic cradle. With the original illustrated cardboard box, four copies of a Letraset sheet for adding white names to the globe, and the 4pp. prospectus for Wightman's globes. Box lid defective; prospectus with split in upper fold and creasing. £3,750

A rare lunar globe with raised relief, handmade by Arthur Wightman in Cornwall during the excitement of the race to put the first man on the Moon.

The globe was carefully cast to show the relief of craters and other features of the surface, brushed with white paint to show debris fields from such events. The American unmanned 'Surveyor' and 'Ranger' landing sites are marked with yellow squares; the Russian unmanned 'Lunar' sites are marked in red; the manned



'Apollo' missions (11 and 12, both 1969) are marked in blue. The Letraset sheet could be used label the globe, including the sites of the landing sites of Apollo 11 & 12 & and the intended site of the ill-fated Apollo 13



Whiteman's prototype, which took two years to create, was based on photographs supplied by NASA and was regarded as the most detailed plotting of the Moon available, even including the Dark Side. Whiteman sold three sizes, 8", 12" and this 24" globe, the largest and most impressive, with customers including NASA itself as well as Frank Borman, captain of Apollo 8.

A film in the Associated press online archive called 'The Man Who Sold the Moon' made by British Movietone in 1969, gives a fascinating behind the scenes glimpse of his workshop. (See Youtube: https://youtu.be/8n8DQTJAL9I). The 24" played a cameo role in the James Bond movie 'Diamonds are Forever' in 1971.

#### 17th century chart comparing the sizes of the planets & celestial bodies



#### 19 CELLARIUS, Andreas.

Corporum coelestum magnitudines.

*Amsterdam: Schenk & Valk, 1708. Original colour with additions. 440 x 515mm. Tiny pinhole in decorative border.* £2,000

An astronomical chart comparing the sizes of Earth, the planets, the sun and other stars. The borders are decorated with winged cherubs and windheads.

It was engraved by Jan van Loon and published in the 'Atlas Coelestis; seu Harmonia Macrocosmica', the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced. Originally published by Jan Jansson in 1660, this example comes from Schenk & Valk's reissue. *KOEMAN: Cel 3.* 

#### Early attempts to depict the planets

Coloured wood engravings From 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt. *London: David Bogue, c. 1845. Wood engraving. 150 x 190mm.* 



#### A pair of superb 17th century celestial hemispheres



#### 25 CELLARIUS, Andreas.

Hemisphaerii Borealis coeli et terrae sphaerica scenographia. [&] Haemisphaerium Scenographicum Australe Coeli Stellati et Terrae.

*Amsterdam, Schenk & Valk, 1708. Original colour with additions, including gold highlights. Two plates, each 440 x 515mm. A few repairs to verdigris weaknesses. £7,500* 

A beautiful part of celestial charts, with the constellations superimposed over the northern and southern hemispheres of Earth. In the top corners of both plates the title is on banderoles held aloft by cherubs and demons. The bottom corners have representations of astronomers and their pupils, holding scientific instruments.

These charts were published in the 'Atlas Coelestis; seu Harmonia Macrocosmica', the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced.

It was originally published by Jan Jansson in 1660: this chart comes from Schenk & Valk's reissue. *KOEMAN: Cel 3.* 



#### Pair of celestial charts of the skies as known by the Ancients



#### 26 CELLARIUS, Andreas.

Haemisphaerium Stellatum Boreale Antiquum. [&] Haemisphaerium Stellatum Australe Antiquum.

*Amsterdam, Schenk & Valk, 1708. Original colour with additions, including gold highlights. Two plates, each 440 x 515mm. Small repairs to verdigris weaknesses. £7,500* 

A pair of beautiful celestial charts of the stars as known to the Ancients, with the classical constellations. The borders contain the titles on banners and several putti.

This chart was published in the 'Atlas Coelestis; seu Harmonia Macrocosmica', the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced.

It was originally published by Jan Jansson in 1660: this chart comes from Schenk & Valk's reissue. *KOEMAN: Cel* 3.



#### A superb pair of 17th century celestial hemispheres



#### 27 CELLARIUS, Andreas.

Haemisphaerium Stellatum Boreale cum Subiecto Haemisphaerio Terrestri [&] Haemisphaerium Stellatum Australe Aequali sphaerarum proportione.

*Amsterdam, Schenk & Valk, 1708. Original colour with additions, including gold highlights. Two plates, each 440 x 515mm, with good margins. 'North' with a few small repairs to verdigris weaknesses, £8,000* 

A pair of spectacular celestial charts of the northern and southern celestial spheres superimposed over the Earth. The northern sheet has Europe and Asia with parts of Africa and North America; the southern shows the Americas south of California and Florida and 'Terra Australis Incognita'. The skies are being supported by Atlas on one side and Hercules on the other.

The charts were published in the 'Atlas Coelestis; seu Harmonia Macrocosmica', the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced. It was originally published by Jan Jansson in 1660: this chart comes from Schenk & Valk's reissue. *KOEMAN: Cel 3.* 



#### Unusual pair of celestial charts with Christian iconography



#### 28 CELLARIUS, Andreas.

Coeli Stellati Christiani Haemisphaerium Posterius. [&] Coeli Stellati Christiani Haemisphaerium Prius.

*Amsterdam, Schenk & Valk, 1708. Original colour with additions, including gold highlights. Two plates, each 440 x 515mm. A few small repairs to verdigris weaknesses., £8,500* 

A beautiful pair of celestial charts of the constellations, depicting them not in the traditional Greco-Roman figures but in Christian imagery as envisaged by Julius Schiller in 1627 in an attempt to make the iconography of the stars more relevant to his day. Thus the Zodiac is represented by the Twelve Apostles and Pegasus has become Gabriel. All the figures are shown face on, because Schiller thought it would be an indignity to have them show their backsides. His changes caused him often to be ridiculed and did not catch on, but when they were published his charts were the most accurate available.

These charts were engraved by Jan van Loon and published in the 'Atlas Coelestis; seu Harmonia Macrocosmica', the only celestial atlas to be produced in the Netherlands before the nineteenth century. It was a compilation of maps of the Ptolemaic universe and the more modern theories of Copernicus and Brahe, and remains the finest and most highly decorative celestial atlas ever produced.

The atlas was originally published by Jan Jansson in 1660: this pair comea from Schenk & Valk's reissue. *KOEMAN: Cel 3.* 



#### 29 EIMMART, Georg Christoph.

#### Planisphærium Cæleste.

Nuremberg, Homann, c.1720. Original colour. 500 x 580mm. £1,400

A double-hemisphere star-chart with the constellations shown in their classical forms. The decorative borders contain six more spheres, showing the solar system according to Ptolemy, Brahe and Copernicus, the lunar cycle, etc.

The chart was originally published by David Funck c.1690; Homann seems to have bought the plate after Funck's death c.1705. *WARNER: p.76-77.* 



S/N 19278

Pair of 18th century celestial charts of the northern and southern skies



#### 30 THOMAS, Corbinianus.

Haemisphaerium Coeli Boreale. [&] Haemisphaerium Coeli Australe.

Frankfurt, 1730. Original colour. Two plates, each 125 x 135mm.

£400

The northern & southern celestial spheres, engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

Corbinianus Thomas (1694-1767), a Benedictine monk, was Professor of Mathematics and Theology at the University of Salzburg. His star atlas was first published in 1730 at Frankfurt, with a second edition at Augsburg the following year. He used an odd system for nomenclature: Bayer Greek letter for the star, Roman numeral for the magnitude and Arabic numeral for the star catalogue reference. *KANAS: 7.7, 'beautiful illustrations'; WARNER, p.251.* 

#### A fine pair of 18th century celestial hemispheres



#### 31 DOPPELMAYR, Johann Gabriel.

Hemisphaerium Coeli Boreale. [&] Hemisphaerium Coeli Australe.

Nuremberg, Homann's Heirs, 1742. Coloured. Two sheets, ea. c.485 x 580mm.

£2,800

The Northern and Southern skies, divided into the Classical Constellations. In the corners are elevations of eight of the most important observatories of Europe, including Greenwich.

Most of the constellations depicted are still familiar today, but on the Southern sheet is 'Robur Carolinum' (Charles's Oak), introduced by Edmund Halley in 1678 but not one of the 88 constellations recognised today.

S/N 18919



#### Pair of 18th century celestial hemispheres

#### 32 ZATTA, Antonio.

Planisfero Celeste Settentrionale Tagliato sul L'Equatore. [&] Planisfero Celeste Meridionale Tagliato sul L'Equatore.

Venice, 1777. Original colour. Two sheets, each 325 x 415 mm.

£900

The northern and southern night sky. Each plate has four elevations of observatories: Pisa, Bologna, Padova and Milan; and Paris, Greenwich, Cassel and Copenhagen.

#### Uncommon star chart on a flat projection



#### 33 BACKER, Remmet Teuniss.

Sterre Kaert of Hemels Pleyn, Waer Door Men Kanwetehoelaet dat het is Overde Gehele Aertkloot, pp alle Meridiane en Polus Hoogte, en, Opwat Lengte en Brete de Voorsz Sterre Staen, Bezuyde en Benoorde de Liniae Aequinoctiael.

#### Amsterdam: J.B. Elwe, 1792. Original colour. 475 x 585mm.

£1,600

A chart of the Northern and Southern skies on a flat projection similar in style to Mercator's Projection on a map of the Earth. The twelve signs of the Zodiac dominate the centre, with Virgo being split between the two sides.

The plate has a long and convoluted history: originally published c.1684 by Johannes van Keulen (a namesake of the chart-maker), it was subsequently republished by de Ram (whose imprint is imperfectly erased outside the printed border at bottom), de la Feuille (who had married de Ram's widow), Ottens and finally Elwe, over a century later. *KOEMAN: El 2; WARNER: 1d.* 



#### An anthropologist's diagram of the Zodiac



#### 34 DUPUIS, Charles François.

Zodiaque Chronologique et Mythologique.

*Paris: Courcier, 1806. Sheet 635 x 495mm. Binding folds flattened, repairs to corners of folds.* 

£1,250

A decorative table of the Zodiac, comparing the astronomical systems of the ancient civilizations, including the Egyptians, Greeks, Romans and Chinese, published in 'Memoire explicatif du Zodiaque chronologique et mythologique'.

Charles François Dupuis (1742-1809) was a French anthropologist who believed that the signs of the zodiac were invented by the ancient Egyptians and served them as a sort of astronomical and agricultural calendar. On this basis he built up a thorough system of mythology and chronology, accounting for the origin of religions. *The full text of the 'Memoire' is available on Google Books*.

# Aquarius

#### 35 BAYER, Johann.

#### [Aquarius.]

*Ulm,* 1641. *Coloured with watercolour and gouache, stars highlighted in gold.* 285 x 380mm. £1,100

Engraved by Alexander Mair for Bayer's 'Uranometria', a star atlas that shaped the way the heavens would be perceived for more than two centuries.

Johann Bayer (1572-1625), an Augsburg lawyer, was an amateur astronomer in the years just prior to the invention of the telescope. His most important innovation was a new system of



identifying stars by Greek and Roman letters, known today as the Bayer designation. His 'Uranometria' ('Measuring the Sky'), first published 1603, was the first celestial atlas to contain a chart of the stars in the Southern Hemisphere. *WARNER: Bayer 1.* 

S/N 20007

#### 36 THOMAS, Corbinianus.

Aquarius.

Frankfurt, 1730. Fine original hand colour. 140 x 140mm.

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

Corbinianus Thomas (1694-1767), a Benedictine monk, was Professor of Mathematics and Theology at the University of Salzburg. His star atlas was first published



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£350

S/N 21464

#### 37 BLUNT, Charles F.

#### Aquarius.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm.

From 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



### Pisces

#### 38 THOMAS, Corbinianus.

Pisces.

*Frankfurt, 1730. Fine original hand colour. 140 x 140mm.* £350

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

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the star catalogue reference. Individual zodiac signs of this period are uncommon, especially in original colour. *KANAS:* 7.7, '*beautiful illustrations*'; WARNER, p.251.

S/N 21465

#### 39 BLUNT, Charles F.

Pisces.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275

From 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.





#### 40 BAYER, Johann.

#### [Aries.]

*Ulm,* 1641. *Coloured with watercolour and gouache, stars highlighted in gold.* 285 x 380mm. £1,100

Engraved by Alexander Mair for Bayer's 'Uranometria', a star atlas that shaped the way the heavens would be perceived for more than two centuries.

Johann Bayer (1572-1625), an Augsburg lawyer, was an amateur astronomer in the years just prior to the invention of the telescope. His most important innovation was a new system of



identifying stars by Greek and Roman letters, known today as the Bayer designation. His 'Uranometria' ('Measuring the Sky'), first published 1603, was the first celestial atlas to contain a chart of the stars in the Southern Hemisphere. *WARNER: Bayer 1.* 

S/N 19997

41 THOMAS, Corbinianus.

Aries.

*Frankfurt,* 1730. *Fine original hand colour.* 120 x 130mm. £350

n Christoph Berndt for the celest

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

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S/N 21466

#### 42 BLUNT, Charles F.

Aries.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275

From 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



## Taurus

#### 43 THOMAS, Corbinianus.

#### Taurus.

*Frankfurt,* 1730. *Fine original hand colour.* 135 x 140mm. £350

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

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S/N 21467

#### 44 BLUNT, Charles F.

#### Taurus.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275

Plate 39 of 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



# Gemini

#### 45 THOMAS, Corbinianus.

Gemini.

Frankfurt, 1730. Fine original colour. 120 x 135mm. £350

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

Corbinianus Thomas (1694-1767), a Benedictine monk, was Professor of Mathematics and Theology at the University of Salzburg. His star atlas was first published in 1730 at Frankfurt, with a second edition at Augsburg the following year. He used an odd system for nomenclature: Bayer Greek letter for



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S/N 21461

#### 46 BLUNT, Charles F.

#### Gemini.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275

Plate 40 of 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



# Cancer

#### 47 BAYER, Johann.

[Cancer.]

*Ulm,* 1641. *Coloured with watercolour and gouache, stars highlighted in gold.* 285 x 380mm. £1,100

Engraved by Alexander Mair for Bayer's 'Uranometria', a star atlas that shaped the way the heavens would be perceived for more than two centuries.

Johann Bayer (1572-1625), an Augsburg lawyer, was an amateur astronomer in the years just prior to the invention of the telescope. His most important innovation was a new system of



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S/N 20000

48 THOMAS, Corbinianus.

Cancer.

*Frankfurt, 1730. Fine original hand colour. 135 x 140mm.* £350

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

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S/N **21463** 

#### 49 BLUNT, Charles F.

Cancer.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275

Plate 41 of 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



#### 50 BAYER, Johann.

#### [Leo.]

*Ulm, 1641. Coloured with watercolour and gouache, stars highlighted in gold. 285 x 380mm.* £1,100

Engraved by Alexander Mair for Bayer's 'Uranometria', a star atlas that shaped the way the heavens would be perceived for more than two centuries.

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S/N 20001

#### 51 THOMAS, Corbinianus.

Leo.

Frankfurt, 1730. Fine original colour. 120 x 130mm.

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

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£350

S/N 21460

#### 52 BLUNT, Charles F.

Leo.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275

Plate 42 of 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



S/N 22039



Leo

# Virgo



#### 53 THOMAS, Corbinianus.

Virgo.

Frankfurt, 1730. Fine original hand colour. 135 x 200mm.

£350

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

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S/N 21457

#### 54 BLUNT, Charles F.

Virgo.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275

Plate 43 of 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



## Libra

#### 55 BAYER, Johann.

[Libra.]

*Ulm,* 1641. *Coloured with watercolour and gouache, stars highlighted in gold.* 285 x 380mm. £1,100

Engraved by Alexander Mair for Bayer's 'Uranometria', a star atlas that shaped the way the heavens would be perceived for more than two centuries.

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S/N 20003

#### 56 THOMAS, Corbinianus.

Libra.

Frankfurt, 1730. Fine original hand colour. 135 x 140mm. £350

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

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S/N 21468

#### 57 BLUNT, Charles F.

Libra.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275

Plate 44 of 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



# Scorpio

#### 58 BAYER, Johann.

#### [Scorpio.]

*Ulm, 1641. Coloured with watercolour and gouache, stars highlighted in gold. 285 x 380mm.* £1,100

Engraved by Alexander Mair for Bayer's 'Uranometria', a star atlas that shaped the way the heavens would be perceived for more than two centuries.

Johann Bayer (1572-1625), an Augsburg lawyer, was an amateur astronomer in the years just prior to the invention of the telescope. His most



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S/N 20004

#### 59 THOMAS, Corbinianus.

Scorpius.

Frankfurt, 1730. Fine original hand colour. 135 x 140mm. £350

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

Corbinianus Thomas (1694-1767), a Benedictine monk, was Professor of Mathematics and Theology at the University of Salzburg. His star atlas was first published in 1730 at Frankfurt, with a second edition at Augsburg the following year. He used an odd system for nomenclature:



Bayer Greek letter for the star, Roman numeral for the magnitude and Arabic numeral for the star catalogue reference. *KANAS: 7.7, 'beautiful illustrations'; WARNER, p.*251.

S/N 21458

#### 60 BLUNT, Charles F.

Scorpio.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275 Plate 45 of 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



# Sagittarius

#### 61 BAYER, Johann.

[Sagittarius.]

Ulm, 1641. Coloured with watercolourand gouache, stars highlighted in gold.285 x 380mm.£1,100

Engraved by Alexander Mair for Bayer's 'Uranometria', a star atlas that shaped the way the heavens would be perceived for more than two centuries.

Johann Bayer (1572-1625), an Augsburg lawyer, was an amateur astronomer in the years just prior to the invention of the telescope. His most important innovation was a new



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S/N 20005

#### 62 THOMAS, Corbinianus.

Sagittarius.

*Frankfurt, 1730. Fine original colour.* 135 *x* 140*mm.* £350

Engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

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numeral for the magnitude and Arabic numeral for the star catalogue reference. Individual zodiac signs of this period are uncommon, especially in original colour. *KANAS:* 7.7, '*beautiful illustrations*'; *WARNER*, *p*.251.

# Capricorn

# 63 THOMAS, Corbinianus.

Capricornus.

*Frankfurt,* 1730. *Fine original hand colour.* 120 x 135mm. £350

A fine illustration of the constellation Capricorn, one of the twelve signs of the Zodiac. It was engraved by Johann Christoph Berndt for the celestial atlas 'Mercurii Philosphici Firmamentum Firmianum', named for Thomas's patron, Leopold Anton von Firmian, Archbishop of Salzburg.

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S/N 21459

#### 64 BLUNT, Charles F.

#### Capricornus.

London: David Bogue, c. 1845. Wood engraving. 150 x 190mm. £275

Showing the constellation of Capricornus (the goat), the tenth sign of the zodiac. Plate 47 of 'The Beauty of the Heavens: a pictorial display of the astronomical phenomena of the universe' by Charles F. Blunt.



#### A magnificent title page to a celestial atlas

#### 65 CELLARIUS, Andreas.

Atlas Coelestis; seu Harmonia Macrocosmica.

Amsterdam: Schenk & Valk, 1708.Original colour with additions, including<br/>gold highlights. 430 x 265mm. A little<br/>soiling in edges.£2,000

The superbly decorated title page engraved by F.H. van Hoeven for the 'Atlas Coelestis; seu Harmonia Macrocosmica'. First published by Jan Jansson in 1660, it was the only celestial atlas to be produced in the Netherlands before the nineteenth century.

It depicts Urania, the Muse of Astronomy, at the centre, surrounded by the most important astronomers. Left to right they are: Tycho Brahe (1546-1601); Claudius Ptolemy (c.90-168 AD); probably the Islamic astronomer al-Battani (c.850-929); Alfonso X of Castile (1221-84), who had Arabic scientific texts translated into Castilian; Nicolaus Copernicus (1473-1543); and Philippe van Lansberge (1551-1632), pointing up at a zodiacal band held aloft by cherubs. At the feet of the astronomers are instruments of astronomy, including a glove, astrolabem armillary sphere and sextant. Two other cherubs hold cross-staffs.





#### A German pocket sundial





#### 66 BERINGER, Paul.

[A diptych pocket sundial for latitudes  $40^{\circ}$  -  $55^{\circ}$  North. ]

Nuremberg?, c.1818. Wooden case (80 x 55 x 15mm closed) with three engraved labels with original hand colour pasted on; brass compass under glass with brass ring; string gnomon with brass pin; two latches (to hold closed and opened, with stabilising pin. With old ink mss. inscription on base: ''Bought at the Fair at Calais July 1818". Label on outside slightly worn, but readable. £750

A pocket sundial in working order, designed for use in Europe. On the lid label is a list of the latitudes of major towns, allowing the string gnomon to be adjusted to the correct position (from 38 to 55°). The two inside labels are decorated with garlands. The compass is marked with eight points in German and the magnetic variation is marked at 18° west of north and is signed 'P.B.'.

Paul was the son of David Beringer (1756-1821), a master craftsman who specialised in scientific instruments such as these. *See NATIONAL MARITIME MUSEUM: AST0150.* 

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#### A 19th century moving-disc guide to the night skies



#### 67 PHILIP, George.

Philips' Planisphere Showing the Principal Stars Visible for Every Hour of the Year.

London: George Philip & Son, c.1870. Printed card disc, 255mm (10") diameter, with gilt-stamped morocco overlay with cardinal points, hanging ring. Explanation on reverse. A little wear to edges, foxing on text on reverse. £750

A simple device for demonstrating which stars are visible from London (or  $51\frac{1}{2}$ ° N) at a particular time of night. The overlay can be rotated to select the date and time, with an oval window over a celestial map revealing the appropriate stars.

The firm published similar discs for use all over the world, including the Southern Hemisphere, continuing to issue them into the late 20th century. Although undated, we have estimated the date of this example from the address '32 Fleet Street' on the reverse, used by the Philips' between 1856-79, making this an early example. Later versions were made in Germany.

#### A satire of the Eclipse of 1820



#### 68 MOTTE, Charles.

L'Eclipse du Septembre 1820. "Elle est totale et d'un bien beau vert".

Paris: Aaron Martinet, 1820. Lithograph with hand colour. Sheet 280 x 205mm. Small spot in right printed border. £220

A stout man looks through a telescope at the solar eclipse, commenting "It is total, and a beautiful green", not realising he is looking at the silk lining of his companion's hat.

The solar eclipse of 7th September 1820 was in fact annular, causing a halo around the moon.

S/N 22374

#### A board game with the face of the moon

#### 69 Anonymous.

Il dilettevole giuoco della Luna.

Milan, c. 1920. Coloured lithograph. 485 x 330mm. Laid on canvas. £500

#### "The entertaining game of the moon."

The board depicts a crescent moon with the numbers 3, 4, 5, 6, 8, 9, 10, 11. The number 7 is placed on a treetrunk. The game is played with two dice. Whoever rolls one of the numbers on the moon has to deposit a coin, but if the number is already occupied the player passes the dice to the next. If a player rolls 7 he puts the coin onto the tree-trunk, leaving in there until the end of the game. Whoever throws two wins the coins on the moon, and rolling twelve wins all the coins on the board.



#### A survey of celestial maps



#### 70 BROOKE-HITCHING, Edward.

The Sky Atlas. The Greatest Maps, Myths and Discoveries of the Universe.

London: Simon & Schuster, 2019. 4to, cloth & illustrated d/w, pp. 256, profusely illustrated. SIGNED BY THE AUTHOR. New. £30

A very readable study of celestial maps from pre-history to the Hubble Telescope. Several of the examples are illustrated from our library of images.



