

# Celestial Maps

## Star Maps

Until the publication of the first edition of 'Star Maps,' books were either general histories of astronomy using examples of antiquarian celestial maps as illustrations, or catalogs of celestial atlases that failed to trace the flow of sky map development over time. The second edition focuses on the development of contemporary views of the heavens and advances in map-making. It captures the beauty and awe of the heavens through images from antiquarian celestial prints and star atlases. This book uniquely combines a number of features: 1) the history of celestial cartography is traced from ancient to modern times; 2) this development is integrated with contemporary cosmological systems; 3) the artistry of sky maps is shown using beautiful color images from actual celestial atlases and prints; 4) each illustration is accompanied by a legend explaining what is being shown; and 5) the text is written for the lay reader based on the

author's experience with writing articles for amateur astronomy and map collector magazines. This updated second edition of 'Star Maps' contains over 50 new pages of text and 44 new images (16 in color), including completely new sections on celestial frontispieces, deep-sky objects, playing card maps, additional cartographers, and modern computerized star maps. There is also expanded material about celestial globes, volvelles, telescopes, and planets and asteroids.

## **Celestial Charts**

After the enormous international success of *The Phantom Atlas* and *The Golden Atlas*, Edward Brooke-Hitching's stunning new book unveils some of the most beautiful maps and charts ever created during mankind's quest to map the skies above us. This richly illustrated treasury showcases the finest examples of celestial cartography - a glorious genre of map-making often overlooked by modern map books - as well as medieval manuscripts, masterpiece paintings, ancient star catalogues, antique instruments and other appealing curiosities. This is the sky as it has never been presented before: the realm of stars and planets, but also of gods, devils,

weather wizards, flying sailors, medieval aliens, mythological animals and rampaging spirits. The reader is taken on a tour of star-obsessed cultures around the world, learning about Tibetan sky burials, star-covered Inuit dancing coats, Mongolian astral prophets and Sir William Herschel's 1781 discovery of Uranus, the first planet to be found since antiquity. Even stranger are the forgotten stories from European history, like the English belief of the Middle Ages in ships that sailed a sea above the clouds, 16th-century German UFO sightings and the Edwardian aristocrat who mistakenly mapped alien-made canals on the surface of Mars. As the intricacies of our universe are today being revealed with unprecedented clarity, there has never been a better time for a highly readable book as beautiful as the night sky to contextualise the scale of these achievements for the general reader.

## **Astronomical Atlases, Maps & Charts**

The beauty and awe generated by the celestial void captures our imagination and delights our aesthetic sense. Antiquarian map societies are prospering, and celestial maps are now viewed as a specialty of map collecting. This book traces

the history of celestial cartography and relates this history to the changing ideas of man's place in the universe and to advances in map-making. Photographs from actual antiquarian celestial atlases and prints, many previously unpublished, enrich the text. The book describes the development and relationships between different sky maps and atlases as well as demonstrating contemporary cosmological ideas, constellation representations, and cartographic advances.

### **The Sky Atlas**

The author's maps, which divide the sky into quadrants, and explanations of the constellations are designed to simplify study for the amateur astronomer.

### **Star Maps**

In recent years, there has been increased interest in our Solar System. This has been prompted by the launching of giant orbiting telescopes and space probes, the discovery of new planetary moons and heavenly bodies that orbit the Sun, and the demotion of Pluto as a planet. In one generation, our place in the

heavens has been challenged, but this is not unusual. Throughout history, there have been a number of such world views. Initially, Earth was seen as the center of the universe and surrounded by orbiting planets and stars. Then the Sun became the center of the cosmos. Finally, there was no center, just a vast array of galaxies with individual stars, some with their own retinue of planets. This allowed our Solar System to be differentiated from deep-sky objects, but it didn't lose its mystery as more and more remarkable bodies were discovered within its boundaries. This book tells the exciting story of how we have conceptualized and mapped our Solar System from antiquity to modern times. In addition to the complete text, this story is made more vivid by: • 162 Solar System and planetary maps, diagrams, and images (over a third in color); • direct quotes and figures from antiquarian, contemporary, and Space Age documents and photographs that allow the reader to track how humans have viewed the Solar System from original sources; • nine tables that compare the various world views, relative planetary positions, and components of the Solar System with each other. Broad in scope and rich in imagery, this book will draw the reader into the story of our Solar System and how it has been mapped since the

beginning of recorded time.

## **Star Maps for Beginners**

Featuring a Preface by the translator, this new edition is a historically significant work on modern map projections and their mathematical underpinnings. Includes an expanded reference section as well as a new biographical sketch of J.H. Lambert.

## **Solar System Maps**

In this volume all extant celestial maps and globes made before 1500 are described and analysed. It also discusses the astronomical sources involved in making these artefacts in antiquity, the Middle Ages, the Islamic world and the European Renaissance before 1500.

## **Notes and Comments on the Composition of Terrestrial and Celestial Maps**

Throughout history, people have sought ways in

which to "map" the heavens. These efforts have often resulted in very beautiful documents. The Mapping of the Heavens reproduces over eighty such documents in full color to reveal some of the ways in which the underlying structure of the universe has been conceived and explained. With examples ranging from the Stone Age to the Space Age, it offers a challenging and entertaining exploration of the tension between the rigors of science and the continuing search for cause, certainty, and harmony in the universe.

## **Illustrating the Phaenomena**

Three-dimensional glasses packed inside each copy of this phenomenal new book offer an in-depth view of the universe as never before presented. 20 full-color photos and drawings; 27 3-D maps; 27 black-and-white maps. Includes 2 sets of 3-D glasses.

## **The Mapping of the Heavens**

Featuring splendid illustrations of the most famous, rare, and impressive star atlases created from the sixteenth to the nineteenth

centuries, this gorgeous book takes a journey through the constellations. Find out about the work of history's great astronomers, their sometimes-fantastic interpretations of extraterrestrial phenomena, and how our knowledge of the universe evolved. Merging art and scientific knowledge, *Celestial Atlas* offers a fascinating glimpse into the past.

### **Celestial Maps and Globes and Star Catalogues of the Sixteenth and Early Seventeenth Centuries**

This guide charts the positions of over 1,000 stars and celestial objects, arrayed in easy-to-read maps. It includes a detailed introduction to stargazing, with explanations of the celestial sphere, coordinates, time, star names and other basic concepts. The author catalogs a list of eclipses of the sun and moon through the year 2012, and also supplies a complete list of constellation names and symbols. Fourteen color maps show both polar and equatorial projections of the sky. With additional data on the location of variable stars, the brightest stars, and clusters, this book is worth taking on your next nighttime sojourn across the sky.

### **3-D Star Maps**

The first star guide of its kind in the southern hemisphere, this book features 96 star maps for observing the southern skies with the naked eye, standard binoculars or a small telescope. Divided into 12 sets, the maps cover all eight principal views of the sky (N, NE, E, SE, S, SW, W and NW) for each month of the year and for different times during each night. For each set of star maps, the reader is alerted to prominent stars and constellations visible during that period of viewing. Terms and concepts are explained and frequently asked questions addressed. *Star Maps for Southern Africa* provides thorough and extensive coverage of our night skies, enabling readers to track stars and related spectacles throughout the year. It will remain relevant for a lifetime.

### **Celestial Charts**

Explains the myths and legends behind the most popular constellations, providing color maps of each and a guide to locating them in the heavens.

## **An Explanation of the Gnomonic Projection of the Sphere; and of Such Points of Astronomy as are Most Necessary in the Use of Astronomical Maps**

Philip's Pocket Star Atlas is a highly practical atlas in a compact format for use out of doors. It contains a series of detailed maps showing the entire night sky, as well as a wealth of useful astronomical data. It is suitable for use anywhere in the world. This popular star atlas is now in its fifth edition, for which it has been fully revised and updated. It presents the sky in a series of 18 maps, showing stars down to magnitude 5.1. This includes all stars visible to the naked eye in semi-rural conditions. Accompanying the star maps is a brief round-up of the basics of astronomy, including celestial coordinates, the ecliptic, magnitudes, spectral types, constellation and star names, the Solar System, the movements of the Sun and the Moon, eclipses and deep-sky objects. Clear and colourful diagrams help to explain these sometimes complicated concepts for the less-experienced observer. In addition, Philip's Pocket Star Atlas includes a series of tables packed with useful practical information, such as the position and brightness of the deep-sky objects marked

on the maps, dates of forthcoming solar and lunar eclipses, dates for when best to observe Mercury, Venus, Mars, Jupiter and Saturn, plus the dates of the major meteor showers.

## **Celestial Atlas**

This is a practical atlas for observers using binoculars or a small telescope. It contains all the maps you need to learn your way around the night sky, whether you want to find remote galaxies, sketch lunar craters or make estimates of variable stars

## **The Globe of Martin Bylica of Olkusz and Celestial Maps in the East and in the West**

The Philip's Star Chart - maps of the night sky which bring astronomy to life

## **Cambridge Pocket Star Atlas**

A practical guide to binocular and small telescope observing. Night Sky Atlas combines

## *Celestial Maps*

clear, accurate star maps with reliable and informative text. This is a highly practical atlas for beginning sky gazers using binoculars or a small telescope. Sturdy binding makes it suitable for outdoor use. Cover flaps can be used as page-markers. The sewn binding allows the atlas to be opened flat. The star maps are drawn with black stars on a white background, allowing observers to pencil in their own observations. The high quality paper can withstand repeated use of an eraser. The book begins by presenting the whole sky in a series of six maps, showing stars down to magnitude 5.5 -- all visible with binoculars or a small telescope. Opposite each map is a photo-realistic image that shows how the same portion of sky looks to the naked eye, allowing less-experienced observers to quickly find specific objects of interest. The maps can be used for planning observations, navigating from one part of the sky to another and for a quick reference guide. Other features include: Forty large scale constellation charts A full set of seasonal charts Maps of the Moon and the planets Deep sky maps identifying double stars, nebula and more. A comprehensive index provides the location of information for all the night sky objects and features covered in the atlas. The Night Sky Atlas is the ideal portable reference for backyard astronomers.

## **Star Maps for Southern Africa**

Although seeing is believing, sometimes what you feel is more important. Carl Thornton, seventeen-year-old stargazer and total nerd, resides in Reno, Nevada, and lives for watching the night sky. His dream—discover a UFO. His mantra—"Seeing is believing." He meets Grace Paxton, and finds out through a series of circumstances, that she, her family and friends, aren't exactly from around here. As well, he learns the reason why Area 51 exists, the secrets it holds, and the danger in finding out those secrets. Carl also falls for Grace, but realizes that he has to find a way to get her and her people home—even if it costs him his life.

## **Star Maps**

From prehistoric times, mankind has looked up at the night sky, and puzzled at the changing positions of the stars. How far away they are is a question that has confounded scientists for centuries. Over the last few hundred years, many scientific careers – and considerable resources – have been devoted to measuring their positions and motions with ever increasing accuracy. And in the last two decades of the

20th century, the European Space Agency developed and launched the Hipparcos satellite, around which this account revolves, to carry out these exacting measurements from space. What has prompted these remarkable developments? Why have governments been persuaded to fund them? What are scientists learning from astronomy's equivalent of the Human Genome Project? This book traces the subject's history, explains why such enormous efforts are considered worthwhile, and interweaves these with a first-hand insight into the Hipparcos project, and how big science is conducted at an international level. The involvement of amateur astronomers, and the Hipparcos contributions to climate research, 'death stars' passing close to the Sun, and the search for extra-solar planets and even intelligent life itself, are some of the surprising facets of this unusual space mission.

## **Philip's Pocket Star Atlas**

The stars have never seemed closer than they do with the Astronomy Pack. Suitable for use in the Northern Hemisphere, the pack contains four essential items to introduce the beginner to the fascinating hobby of astronomy: a 'glow-in-the-dark' planisphere, an 80-page paperback book

about the stars and planets, a colorful moon map, and newly updated start chart. **Glow-in-the-Dark Planisphere:** This planisphere has been specially made so that, after being held under a bright light, the stars and the names and shapes of the constellations will glow in the dark for a period. It is both a fun and practical star finder for identifying the stars and constellations visible on any night of the year from the US and Southern Canada (42 degrees North); the star map is drawn by the well-known celestial cartographer Wil Tirion. A sheet explaining how to use the planisphere is included in the pack. **Exploring Stars and Planets:** A colorful and entertaining introduction to the exciting world of astronomy, this 80-page paperback is illustrated with more than 200 color photographs, artworks and maps, as the author Ian Ridpath describes the latest developments in the fast-moving fields of space exploration and astronomy. Concise chapters introduce the Sun, the Earth and all the other planets in our Solar System. Then, moving further into space, the author examines the stars and galaxies, and explores the origin of the Universe. **Star Chart:** This Star Chart shows the stars and constellations of the night sky in three superb maps: the northern and southern hemispheres, and the equatorial region. All stars visible with the naked eye are shown, with the brightest stars shown in their true colours.

## *Celestial Maps*

Fainter star clusters and nebulae are marked for observers using binoculars or small telescopes. Constellations, double stars and variable stars are also listed, and an informative accompanying text explains how to use the charts throughout the year, at any latitude. In a convenient folded format, Star Chart is suitable for use in both northern and southern latitudes. Moon Map: In a convenient folded format, the Moon Map is a superbly detailed, large-format map of the near (visible) side of the Moon. Specially drawn for by Dr John Murray, an expert on the lunar surface, the map is not only a highly accurate and clear representation of the Moon but is also a practical guide for lunar observers. More than 500 physical features - craters, seas, mountain ranges, peaks, valleys and rilles (elongated depressions) - are named and indexed, and the landing sites of unmanned and manned spacecraft are also marked. The observer can thus readily identify objects seen through binoculars or a telescope, or pick targets for a program of observation. The accompanying text is a practical guide to Moonwatching, which explains how to use the map and highlights the most interesting lunar features. Close-up images of some of these objects show what the observer can expect to see. Also included are photographs of the Moon at each daily stage and a smaller map of the far side, as revealed by satellites.

Guidelines on drawing or photographing the Moon are also included.

## **Philip's Night Sky Atlas**

Published in 1905, this highly illustrated work by Sir Robert Stawell Ball (1840-1913) is a concise introduction to astronomy.

## **Familiar Astronomy, Or, An Introduction to the Study of the Heavens**

The Ever-Changing Sky provides a comprehensive and non-mathematical guide to spherical astronomy. The reader is guided through terrestrial and celestial co-ordinate systems, time measurement and celestial navigation, to the prediction of the rising and setting of the stars, Sun and Moon. It focuses on the geometrical aspects of the night sky without using complex trigonometry. The book progresses to a general study of the Earth and sky, including the stars and constellations (with useful star maps provided), the motions and appearance of the Moon, tides and eclipses, the

orbits of the planets and the smaller bodies of the Solar System (asteroids, meteors, meteorites and comets). Finally, there is a brief overview of atmospheric phenomena (including rainbows and haloes). This text will be invaluable to students taking courses in naked-eye astronomy, amateur and professional astronomers, as well as more general readers wanting to know how the night sky changes.

## **Astronomical Maps**

Philip's Month-by-Month Star Finder is a concise calendar for star watchers in the northern hemisphere. Star charts show the position of stars, constellations and other celestial objects for each month of the year, in both northerly and southerly directions. The introduction explains the basic facts that observers need to know: the apparent motions of the stars, seasonal changes, star brightnesses, the nature of the Milky Way, and how the night sky is represented on maps. In addition, location tables are provided for the four planets bright enough to be seen easily from the Earth with the naked eye: Venus, Mars, Jupiter and Saturn. The principal lunar features are also indicated on a pair of photographs showing the Moon at first quarter and at last

quarter.

## **Star Maps for Beginners**

About a millennium ago, in Cairo, an unknown author completed a large and richly illustrated book. In the course of thirty-five chapters, this book guided the reader on a journey from the outermost cosmos and planets to Earth and its lands, islands, features, and inhabitants. This treatise, known as *The Book of Curiosities*, was unknown to modern scholars until a remarkable manuscript copy surfaced in 2000. *Lost Maps of the Caliphs* provides the first general overview of *The Book of Curiosities* and the unique insight it offers into medieval Islamic thought. Opening with an account of the remarkable discovery of the manuscript and its purchase by the Bodleian Library, the authors use *The Book of Curiosities* to re-evaluate the development of astrology, geography, and cartography in the first four centuries of Islam. Their account assesses the transmission of Late Antique geography to the Islamic world, unearths the logic behind abstract maritime diagrams, and considers the palaces and walls that dominate medieval Islamic plans of towns and ports. Early astronomical maps and drawings demonstrate the medieval

understanding of the structure of the cosmos and illustrate the pervasive assumption that almost any visible celestial event had an effect upon life on Earth. *Lost Maps of the Caliphs* also reconsiders the history of global communication networks at the turn of the previous millennium. It shows the Fatimid Empire, and its capital Cairo, as a global maritime power, with tentacles spanning from the eastern Mediterranean to the Indus Valley and the East African coast. As *Lost Maps of the Caliphs* makes clear, not only is *The Book of Curiosities* one of the greatest achievements of medieval mapmaking, it is also a remarkable contribution to the story of Islamic civilization that opens an unexpected window to the medieval Islamic view of the world.

**A New Star Atlas for the Library, the School and the Observatory, in Twelve Circular Maps (with Two Index Plates)**

The Pathfinder Star Maps

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