

# The Cambridge Star Atlas

The Cambridge Star Atlas Cambridge Star Atlas The Cambridge Star Atlas The Cambridge Double Star Atlas Cambridge Star Atlas 2000.0 Cambridge Pocket Star Atlas The Cambridge Double Star Atlas Cambridge Double Star Atlas (2nd Edition). The Cambridge Photographic Star Atlas Millennium Star Atlas The AAVSO Variable Star Atlas The Cambridge Double Star Atlas Planetary Nebulae and How to Observe Them Exploring the Universe Millennium Star Atlas: 0 to 8 hours Observing and Measuring Visual Double Stars The Making of History's Greatest Star Map The Herschel Objects and How to Observe Them The Cambridge Atlas of Herschel Objects Star Ware Wil Tirion Wil Tirion Will Tirion Bruce MacEvoy Wil Tirion John Cox James Mullaney Bruce MacEvoy Axel Mellinger Roger W. Sinnott Charles Scovil Bruce MacEvoy Martin Griffiths James Dire Roger W. Sinnott R. W. Argyle Michael Perryman James Mullaney James Mullaney Philip S. Harrington The Cambridge Star Atlas Cambridge Star Atlas The Cambridge Star Atlas The Cambridge Double Star Atlas Cambridge Star Atlas 2000.0 Cambridge Pocket Star Atlas The Cambridge Double Star Atlas Cambridge Double Star Atlas (2nd Edition). The Cambridge Photographic Star Atlas Millennium Star Atlas The AAVSO Variable Star Atlas The Cambridge Double Star Atlas Planetary Nebulae and How to Observe Them Exploring the Universe Millennium Star Atlas: 0 to 8 hours Observing and Measuring Visual Double Stars The Making of History's Greatest Star Map The Herschel Objects and How to Observe Them The Cambridge Atlas of Herschel Objects Star Ware Wil Tirion Wil Tirion Will Tirion Bruce MacEvoy Wil Tirion John Cox James Mullaney Bruce MacEvoy Axel Mellinger Roger W. Sinnott Charles Scovil Bruce MacEvoy Martin Griffiths James Dire Roger W. Sinnott R. W. Argyle Michael Perryman James Mullaney James Mullaney Philip S. Harrington

ideal for astronomers worldwide the fourth edition of this classic atlas features new moon maps new data and enhanced charts

presents a series of twenty four monthly sky maps that can be used anywhere on earth and twenty detailed star charts that overlap to present a picture of the whole sky and includes a comprehensive map of the moon's surface

the first and only atlas of physical double stars with charts by celestial cartographer wil tirion

wil tirion the renowned astronomical cartographer has produced this atlas of the sky with the beginner in mind each chart shows all the stars visible to the naked eye over a wide area of sky together with the brighter nebulae and galaxies constellation boundaries and the milky way are also shown color codes enable the user to distinguish easily the various kinds of objects shown the charts are complemented by tables of objects such as different sorts of stars nebulae and galaxies for which one can search each table is placed opposite the corresponding chart to facilitate use the charts are in full color making them both attractive and simple to use the result is a self contained star atlas that will delight and inform newcomers to practical astronomy

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

this magnificent atlas contains the most attractive and interesting double and multiple stars for viewing with binoculars and telescopes it is a must have for stargazers who want to explore these fascinating objects the first modern star atlas devoted to double and multiple stars it plots over 2000 selected pairs of stars each labeled with discoverer catalog and or observatory designations a superb introduction to this important class of celestial objects it is spiral bound and printed in red light friendly colours making it ideal for use in the field written by experienced observer james mullaney and beautifully illustrated by renowned celestial cartographer wil tirion it provides an easy to use celestial roadmap to locate and identify double and multiple stars other deep sky objects such as star clusters nebulae and galaxies are also included and are color coded for easy recognition and identification making this an all purpose observing reference

the first and only atlas of physical double stars with charts by celestial cartographer wil tirion

a mosaic of the entire sky unparalleled in detail and completeness an indispensable atlas for visual observers and astrophotographers

this book is for amateur astronomers who want to go beyond the messier objects concentrating on one of the most beautiful classes of astronomical object it describes over 100 nebulae personally observed by the author using telescopes of various sizes

have you ever wanted to get better at observing the universe but didn t know where to begin have you ever wondered what you are looking at in the night sky whether you are just beginning or an advanced amateur astronomer you will want to have this book in your astronomical library this book wraps up an entire astronomy course around the study of astronomical images all of which have been taken by the author the fascinating images contained herein will inspire readers to explore the descriptions of astronomical objects of all types and the physical processes they undergo throughout the universe the author is both a career astronomy professor and an avid amateur astronomer who owns an arsenal of small telescopes for observing and conducting ccd imaging the author s descriptions are at a level any reader can follow using his own images mostly taken with smaller telescopes as opposed to hubble james webb or multi meter mountain top observatories show amateur astronomers and hobbyists what can be accomplished by using modest and affordable equipment the book begins with a primer on telescopes and the myriad types on the market today you ll read about why there are so many models as well as the advantages and disadvantages of each this is followed by an introduction to astrophotography a complete description of paper and digital star atlases available today and a discussion on celestial nomenclature why are celestial objects named what they are named you ll learn about light and how it interacts with matter to create what we see in the night sky finally you ll go on a grand tour of the

universe from the moon and sun to comets nebulae star clusters and galaxies

the second edition of observing and measuring visual double stars 2004 is the definitive book for those who are serious about this fascinating aspect of astronomy it deals with equipment you can start modestly with commercial or even home made instruments observing methods using binoculars upwards to advanced instrumentation and techniques including speckle interferometry the astronomy of double stars including orbital calculation is given its own section this second edition of this popular book contains a significant amount of completely new material inspired by the work done by observers particularly in the usa since the first edition was published this includes the use of the internet to carry out astrometry precise astronomical measurement using existing survey plates and films the new edition contains an excellent guide to sketching double stars a topic not previously covered in addition there is information about how to image double stars of unequal brightness always a difficult matter but now somewhat easier because of advances in hardware and image processing software nearly all of the chapters and tables have been updated the cd rom that accompanied the first edition of observing and measuring visual double stars is replaced by access to the springer extras web site the extra information includes the complete washington double star and tycho 2 catalogs there is an extensive database of astrometric double and multiple star formation including positions orbits separations and magnitudes and a software suite that implements many of the calculations and equations featured in the book

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

amateur astronomers particularly deep sky observers are always on the lookout for new observing challenges the herschel objects and how to observe them offers the exciting opportunity of retracing the steps of the greatest visual observer and celestial explorer that ever lived this is a practical guide to seeing the most impressive of herschel s star clusters nebulae and galaxies there has never been and as of the time of submitting this proposal there still isn t an observer s book devoted to the herschel objects the us based astronomical league has for several years sponsored a herschel club reflecting the interest amateur astronomers have in this important but less widely known listing the herschel objects and how to observe them covers more than 600 of the brightest of the objects that

herschel saw with detailed descriptions and images of 150 to 200 of the very best for viewing with amateur telescopes

this superb all purpose star atlas is the first of its kind devoted to observing the herschel objects with binoculars and telescopes it displays over 2500 of the most visually attractive star clusters nebulae and galaxies that were discovered by sir william caroline and sir john herschel and is a must have for stargazers who want to explore these fascinating objects covering the entire sky from the north to the south celestial pole and showing all 88 constellations it is also a general sky atlas showing variable double and multiple stars and the milky way written by experienced observer james mullaney and illustrated by renowned celestial cartographer wil tirion this is a magnificent celestial roadmap to some of the finest deep sky showpieces spiral bound and printed in red light friendly colors for use at a telescope with color coded symbols for easy recognition and identification this is an all purpose observing reference for all amateur observers additional resources including a target list ordered by herschel designation are available to download from cambridge org 9780521138178

a complete current review of the material needed by backyard astronomers it deserves a place on the bookshelf of anyone who looks at the sky david eicher associate editor astronomy author of beginner s guide to amateur astronomy a great help to anyone especially the novice who is wondering what to get i don t know of any other single source that covers so much of the equipment scene alan macrobert associate editor sky telescope author of star hopping for backyard astronomers these are great times for telescope shopping the marketplace is filled to the rafters with terrific and some not so terrific equipment and that s the problem making the right choices amid the whirlwind of technical jargon and manufacturers hype is a formidable challenge even for experienced amateur astronomers in star ware award winning astronomy writer philip s harrington has done most of the work for you he takes a hard look at what s on the market offering a point by point comparative critique of most major manufacturer s offerings in addition star ware gets you the biggest bang for the buck by helping you to match your needs and your pocketbook with the best of what s available covers absolutely everything from telescopes filters mounts sites and lenses to guides and references star charts even the best bug sprays and long johns to take on field trips helps you to set up and test your new equipment as you site observe and photograph the moon sun planets and a number of deep sky objects saves you money with ten do it yourself projects ranging in difficulty from making a dew cap to building an observatory

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