

The Cambridge Star Atlas

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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

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

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

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

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

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

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

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

america s finest science writer describes a major revolution sweeping astronomy as amateur astronomers in global networks linked by the internet make discoveries that are changing the knowledge of the universe illustrations

praise for the first edition of star ware 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 just as our knowledge of the cosmos has changed dramatically in the past few years so has the world of telescope buying today it is easier than ever for the backyard astronomer to actively observe the universe with equipment to satisfy every need how does the amateur astronomer make informed choices in this second edition of star ware award winning astronomy writer philip s harrington helps eliminate the guesswork and guides you through the process with fully updated and expanded chapters on telescopes and accessories for budding astronomers and experienced amateurs alike star ware second edition gives you everything you need to make educated decisions including extensive reviews of leading model names and hard to find accessories on the market along with dozens of new products to help you buy smart a clear step by step guide to all aspects of purchasing from choosing the right binoculars and telescopes to buying eyepieces filters cameras and film ten new do it yourself projects to help save you time and money including a portable telescope case and performance enhancing collimation tools easy maintenance mapping and photography tips of the trade to help you get the most out of your telescope and stargazing where to find everything astronomical internet sites and web resources with complete addresses for distributors dealers and conventions corporate listings for products and services and advice on using equipment

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

amateur astronomers are introduced to the special features of telescopes and are guided in locating celestial objects with the aid of fourteen star maps photographs and constellation charts

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