

# Eight Easy Observing Projects

By **Robert M. Hargrave** and **Robert M. Hargrave**

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# Eight Easy Observing Projects For Amateur Astronomers

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## **Eight Easy Observing Projects For Amateur Astronomers:**

**Eight Easy Observing Projects** David Cortner, Nancy L. Hendrickson, 1996 Experience the joy of astronomy with tips on getting started with binoculars and telescopes what to observe and how to track and photograph sky objects By David Cortner and Nancy L Hendrickson 7 3 8 x 9 7 8 160 pgs over 90 bandw and color photos softcover Journal de la Société Royale D'astronomie Du Canada Royal Astronomical Society of Canada, 2006 Library catalogue in 1911 31 p appended to v 4

**Star Mentor: Hands-On Projects and Lessons in Observational Astronomy for Beginners** Daniel E. Barth, 2022-05-23 This is a hands on guide for both the budding astronomer in need of a mentor and the seasoned observer who wants to learn how to effectively share their knowledge with newcomers Through decades of teaching observational astronomy at the high school and college level Dr Daniel E Barth has inspired thousands of beginners and in this book he shares the many ways that you can learn and teach others too The chapters contain a plethora of practical projects in observational astronomy that can be done on your own or with others delighting any hobbyist with the many wonders of the night sky The activities are tailored for different skill levels always starting from the basics and working their way up to more challenging tasks They can be done outdoors with a telescope or indoors with a few simple materials depending on the sky conditions and time of year Make astronomy fun for all with these engaging DIY projects which include step by step instructions for modeling sketching observing recording and many other interactive exercises Appropriate for the amateur who wants to teach their passion the beginner who has their very first telescope the binocular owner and even those who do not yet own equipment Star Mentor is your guide to forming and sharing a lifelong love for astronomy *Remote Observatories for Amateur Astronomers* Gerald R. Hubbell, Richard J. Williams, Linda M. Billard, 2015-10-23 Amateur astronomers who want to enhance their capabilities to contribute to science need look no farther than this guide to using remote observatories The contributors cover how to build your own remote observatory as well as the existing infrastructure of commercial networks of remote observatories that are available to the amateur They provide specific advice on which programs to use based on your project objectives and offer practical project suggestions Remotely controlled observatories have many advantages the most obvious that the observer does not have to be physically present to carry out observations Such an observatory can also be used more fully because its time can be scheduled and usefully shared among several astronomers working on different observing projects More and more professional level observatories are open to use by amateurs in this way via the Internet and more advanced amateur astronomers can even build their own remote observatories for sharing among members of a society or interest group Endorsements Remote Observatories for Amateur Astronomers Using High Powered Telescopes from Home by Jerry Hubbell Rich Williams and Linda Billard is a unique contribution centering on computer controlled private observatories owned by amateur astronomers and commercialized professional amateur observatories where observing time to collect data can be purchased Before this book trying to piece

together all of the necessary elements and processes that make up a remotely operated observatory was daunting. The authors and contributors have provided in this single publication a wealth of information gained from years of experience that will save you considerable money and countless hours in trying to develop such an observatory. If you follow the methods and processes laid out in this book and choose to build your own remotely operated observatory or decide to become a regular user of one of the commercial networks, you will not only join an elite group of advanced astronomers who make regular submissions to science, but you will become a member of an ancient fraternity. Your high technology observatory will contain a high powered telescope, no matter how large it is, and from the comfort of home you can actively contribute to the work that started in pre history to help uncover the secrets of the cosmos.

Scott Roberts, Founder and President, Explore Scientific LLC. In the past three and a half decades since I first became involved with remote observatories, the use of remote unmanned telescopes at fully automated observatories has advanced from a very rare approach for making astronomical observations to an increasingly dominant mode for observation among both professional and amateur astronomers. I am very pleased to see this timely book being published on the topic. I highly recommend this book to readers because it not only covers the knowledge needed to become an informed user of existing remote observatories, but also describes what you need to know to develop your own remote observatory. It draws on more than two decades of remote observatory operation and networking by coauthor Rich Williams as he developed the Sierra Stars Observatory Network (SSON) into the world class network it is today. This book is the ideal follow on to coauthor Jerry Hubbell's book *Scientific Astrophotography* (Springer, 2012). Remote observatories have a bright future, opening up astronomy to a new and much larger generation of professional, amateur, and student observers. Machines and humans can and do work well together. I hope you enjoy reading this book as much as I have and will take advantage of the developments over the past several decades by the many pioneers of remote observatories.

Russ Genet, PhD, California Polytechnic State University. Observing Saturn for the first time is a memory that stays with us for the rest of our lives, and for many it is the start of an odyssey, an odyssey into observational astronomy. *Remote Observatories for Amateur Astronomers* is a book written for observers, beginners and old hands alike, providing detailed advice to those wishing to improve their observing skills. Many will want to build and operate a remotely controlled observatory, and for those, Part I of this book is an invaluable source of information. If like me you choose to avoid the capital outlay of owning your own facility, Part II describes how you can use one of the many professionally run large scopes where for a few dollars you can capture spectacular color images of nebulae, galaxies and comets. My own scientific interest in short period eclipsing binaries has been made possible through the availability of remote telescopes such as those operated by the Sierra Stars Observatory Network (SSON). Whichever route you take, this book is essential reading for all who aspire to serious observing.

David Pulley, The Local Group, UK. [Astro-Imaging Projects for Amateur Astronomers](#) Jim Chung, 2015-07-09. This is the must have guide for all amateur astronomers who double as makers, doers, tinkerers, problem solvers and inventors. In a

world where an amateur astronomy habit can easily run into the many thousands of dollars it is still possible for practitioners to get high quality results and equipment on a budget by utilizing DIY techniques Surprisingly it s not that hard to modify existing equipment to get new and improved usability from older or outdated technology creating an end result that can outshine the pricey higher end tools All it takes is some elbow grease a creative and open mind and the help of Chung s hard won knowledge on building and modifying telescopes and cameras With this book it is possible for readers to improve their craft making their equipment more user friendly The tools are at hand and the advice on how to do it is here Readers will discover a comprehensive presentation of astronomical projects that any amateur on any budget can replicate projects that utilize leading edge technology and techniques sure to invigorate the experts and elevate the less experienced As the maker community continues to expand it has wonderful things to offer amateur astronomers with a willingness to get their hands dirty Tweaking observing and imaging equipment so that it serves a custom purpose can take your observing options to the next level while being fun to boot

**Using Commercial Amateur Astronomical Spectrographs** Jeffrey L. Hopkins,2013-11-19 Amateur astronomers interested in learning more about astronomical spectroscopy now have the guide they need It provides detailed information about how to get started inexpensively with low resolution spectroscopy and then how to move on to more advanced high resolution spectroscopy Uniquely the instructions concentrate very much on the practical aspects of using commercially available spectroscopes rather than simply explaining how spectroscopes work The book includes a clear explanation of the laboratory theory behind astronomical spectrographs and goes on to extensively cover the practical application of astronomical spectroscopy in detail Four popular and reasonably priced commercially available diffraction grating spectrographs are used as examples The first is a low resolution transmission diffraction grating the Star Analyser spectrograph The second is an inexpensive fiber optic coupled bench spectrograph that can be used to learn more about spectroscopy The third is a newcomer the ALPY 600 spectrograph The fourth spectrograph considered is at the other end of the market both in performance and cost the high resolution Lhires III While considerably more expensive this is a popular and excellent scientific instrument that allows more advanced amateur astronomers to produce scientifically valuable data With all of these tools in place the amateur astronomer is well prepared to forger deeper into the night sky using spectroscopy

**Visually Observing Comets** David A. J. Seargent,2017-03-15 In these days of computers and CCD cameras visual comet observers can still contribute scientifically useful data with the help of this handy reference for use in the field Comets are one of the principal areas for productive pro amateur collaboration in astronomy but finding comets requires a different approach than the observing of more predictable targets Principally directed toward amateur astronomers who prefer visual observing or who are interested in discovering a new comet or visually monitoring the behavior of known comets it includes all the advice needed to thrive as a comet observer After presenting a brief overview of the nature of comets and how we came to the modern understanding of comets this book details the various types of

observations that can usefully be carried out at the eyepiece of a telescope Subjects range from how to search for new comets to visually estimating the brightness of comets and the length and orientation of tails in addition to what to look for in comet heads and tails Details are also given of 20 periodic comets predicted to return between the years 2017 and 2027 that are expected to become suitable targets for visual observing in addition to information on a famous comet potentially visible each year and subject to great outbursts of brightness     *The Guide to Amateur Astronomy* Jack Newton, Philip Teece, 1995-01-19 How do you choose your first telescope Or build one from first principles What can the deep sky offer you season by season How do you get started in astrophotography And progress to CCD imaging The Guide to Amateur Astronomy answers the questions of the novice and the experienced amateur astronomer in one easy to use and comprehensive account Throughout the emphasis is on practical methods to get you started and then develop your skills with lavish illustrations to show you just what is possible This second edition of the highly successful Guide has been fully revised and updated It now takes you from basic piggyback astrophotography through the use of a cold camera to state of the art CCD imaging from studies of the planets to the most distant objects in the Universe From guidelines for the care and adjustment of your telescope through to lists of the spectral classification of stars amateur astronomy societies and clubs all the information you need for your voyage of discovery and revelation is provided in this self contained helpful guide

Subject Guide to Children's Books in Print 1997 Bowker Editorial Staff, R R Bowker Publishing, 1996-09     **The New Amateur Astronomer** Martin Mobberley, 2012-12-06 Amateur astronomy has changed beyond recognition in less than two decades The reason is of course technology Affordable high quality telescopes computer controlled go to mountings autoguiders CCD cameras video and as always computers and the Internet are just a few of the advances that have revolutionized astronomy for the twenty first century Martin Mobberley first looks at the basics before going into an in depth study of what is available commercially He then moves on to the revolutionary possibilities that are open to amateurs from imaging through spectroscopy and photometry to patrolling for near earth objects the search for comets and asteroids that may come close to or even hit the earth The New Amateur Astronomer is a road map of the new astronomy equally suitable for newcomers who want an introduction or old hands who need to keep abreast of innovations From the reviews This is one of several dozen books in Patrick Moore's Practical Astronomy series Amid this large family Mobberley finds his niche the beginning high tech amateur The book's first half discusses equipment computer driven telescopes CCD cameras imaging processing software etc This market is changing every bit as rapidly as the computer world so these details will be current for only a year or two The rest of the book offers an overview of scientific projects that serious amateurs are carrying out these days Throughout basic formulas and technical terms are provided as needed without formal derivations An appendix with useful references and Web sites is also included Readers will need more than this book if they are considering a plunge into high tech amateur astronomy but it certainly will whet their appetites Mobberley's most valuable advice will save the

book's owner many times its cover price buy a quality telescope from a reputable dealer and install it in a simple shelter so it can be used with as little set up time as possible A poor purchase choice and the hassle of setting up are why most fancy telescopes gather dust in their owners' dens

Summing Up Highly recommended General readers lower and upper division undergraduates T D Oswalt CHOICE March 2005

*1998 Writer's Market* Kirsten C. Holm, Don Prues, 1997 Current edition of the annual writer's resource which lists 4,200 places to sell articles, books, short stories, novels, plays, scripts, and greeting cards Includes information on royalties, submission guidelines, manuscript formats, contact information, and tips from successful authors and editors Annotation copyrighted by Book News Inc, Portland, OR

*Illustrated Guide to Astronomical Wonders* Robert Bruce Thompson, Barbara Fritchman Thompson, 2007-10-31 With the advent of inexpensive high power telescopes priced at under \$250, amateur astronomy is now within the reach of anyone, and this is the ideal book to get you started The *Illustrated Guide to Astronomical Wonders* offers you a guide to the equipment you need and shows you how and where to find hundreds of spectacular objects in the deep sky: double and multiple stars, as well as spectacular star clusters, nebulae, and galaxies You get a solid grounding in the fundamental concepts and terminology of astronomy and specific advice about choosing, buying, using, and maintaining the equipment required for observing The *Illustrated Guide to Astronomical Wonders* is designed to be used in the field under the special red-colored lighting used by astronomers and includes recommended observing targets for beginners and intermediate observers alike You get detailed star charts and specific information about the best celestial objects The objects in this book were chosen to help you meet the requirements for several lists of objects compiled by The Astronomical League (<http://www.astroleague.org>) or the Royal Astronomical Society of Canada (<http://www.rasc.ca>)

Messier Club Binocular Messier Club Urban Observing Club Deep Sky Binocular Club Double Star Club RASC Finest NGC List Completing the list for a particular observing club entitles anyone who is a member of the Astronomical League or RASC to an award which includes a certificate and in some cases a lapel pin This book is perfect for amateur astronomers, students, teachers, or anyone who is ready to dive into this rewarding hobby Who knows You might even find a new object like amateur astronomer Jay McNeil On a clear, cold night in January 2004 he spotted a previously undiscovered celestial object near Orion now called McNeil's Nebula Discover what awaits you in the night sky with the *Illustrated Guide to Astronomical Wonders*

**Astronomical Discoveries You Can Make, Too!** Robert K. Buchheim, 2015-05-12 You too can follow in the steps of the great astronomers such as Hipparchus, Galileo, Kepler, and Hubble who all contributed so much to our modern understanding of the cosmos This book gives the student or amateur astronomer the following tools to replicate some of these seminal observations from their own homes With your own eyes Use your own observations and measurements to discover and confirm the phenomena of the seasons, the analemma, and the equation of time the logic behind celestial coordinates and even the precession of the equinoxes With a consumer grade digital camera Record the changing brightness of an eclipsing binary star and show that a pulsating star changes color as it brightens and

dims Add an inexpensive diffraction grating to your camera and see the variety of spectral features in the stars and demonstrate that the Sun s spectrum is similar to one particular type of stellar spectrum With a backyard telescope Add a CCD imager and you can measure the scale of the Solar System and the distance to a nearby star You could even measure the distance to another galaxy and observe the cosmological redshift of the expanding universe Astronomical Discoveries You Can Make Too doesn t just tell you about the development of astronomy it shows you how to discover for yourself the essential features of the universe

**Lunar Meteoroid Impacts and How to Observe Them** Brian Cudnik,2010-03-10 The genesis of modern searches for observable meteoritic phenomena on the Moon is the paper by Lincoln La Paz in Popular Astronomy magazine in 1938 In it he argued that the absence of observed fashes of meteoritic impacts on the Moon might be interpreted to mean that these bodies are destroyed as luminous meteors in an extremely rarefied lunar atmosphere The paper suggested the possibility of systematic searches for such possible lunar meteors With these concepts in mind I was surprised to note a transient moving bright speck on the Moon on July 10 1941 It appeared to behave very much as a lunar meteor would except that the poorly estimated duration would lead to a strongly hyperbolic heliocentric velocity Thus the idea of systematic searches for both p sible lunar meteors and meteoritic impact fashes was born It was appreciated that much time might need to be expended to achieve any positive results Systematic searches were carried out by others and myself chiefly in the years 1945 1965 and became a regular program at the newly founded Association of Lunar and Planetary Observers or ALPO

**Basic Astronomy: with Projects for Amateurs and Students** Harry Haysham,1971 **Index de Périodiques Canadiens** ,1998 *From Casual Stargazer to Amateur Astronomer* Dave Eagle,2013-10-16 The beginning astronomical observer passes through a series of stages The initial stage is hugely exciting and gives the beginner a real buzz as he discovers some of the faint fuzzy objects markings on the planets rings around Saturn and the craters on the Moon But as the novice observer progresses he or she wants to know what more there is than looking at faint fuzzy blobs or indistinct planet markings Many jump to the conclusion wrongly that they need to spend lots of money on expensive equipment to progress From Casual Stargazer to Amateur Astronomer has been written specifically to address this group of budding stargazers Astronomy is much more than a quick sightseeing tour Patient observers who can develop their skills will start to appreciate what they are seeing and will know exactly what to look out for on any particular night And equally important they will learn what not to expect to see From Casual Stargazer to Amateur Astronomer is for those who want to develop observing skills beyond mere sightseeing and learn some of the techniques used to carry out enjoyable and scientifically useful observations It will also direct readers to make informed choices about what can be seen and when This book is for anyone keen to develop their skills as an amateur astronomer

[Astronomy Hacks](#) Robert Bruce Thompson,Barbara Fritchman Thompson,2005 Astronomy Hacks begins the space exploration by getting you set up with the right equipment for observing and admiring the stars in an urban setting Along for the trip are first rate tips for making most of observations The



hacks show you how to Dark Adapt Your Notebook Computer Choose the Best Binocular Clean Your Eyepieces and Lenses Safely Upgrade Your Optical Finder Photograph the Stars with Basic Equipment      **A Complete Manual of Amateur Astronomy** P. Clay Sherrod, Thomas L. Koed, 2012-11-13 Concise highly readable book discusses the selection set up and maintenance of a telescope amateur studies of the sun lunar topography and occultations and more 124 figures 26 halftones 37 tables      *Asteroids and Dwarf Planets and How to Observe Them* Roger Dymock, 2010-11-01 Dwarf planets which were formerly called asteroids except for the planet Pluto and the smaller Solar System bodies still called asteroids today are making front page news particularly those that are newly discovered and those that might present a hazard to life on Earth by impacting our planet In this age of giant telescopes and space probes these small Solar System bodies have advanced from being tiny points of light to bodies worthy of widespread study This book describes the dwarf planets and asteroids themselves their origins orbits and composition and at how amateur astronomers can play a part in their detection tracking and imaging The book is divided into two parts Part I describes physical properties including taxonomic types of dwarf planets and asteroids how they formed in the early life of the Solar System and how they evolved to their present positions groups and families It also covers the properties used to define these small Solar System bodies magnitude rotation rates described by their light curves and orbital characteristics Part II opens with a description of the hardware and software an amateur or practical astronomer needs to observe and also to image asteroids Then numerous observing techniques are covered in depth Finally there are lists of relevant amateur and professional organizations and how to submit your own observations to them

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## **Eight Easy Observing Projects For Amateur Astronomers Introduction**

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