

Star Hopping For Backyard Astronomers

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NightWatch - Terence Dickinson 1998
Offers advice on observing the stars and constellations, discusses useful equipment, and includes information on the moon, comets, eclipses, and planets
Discover the Stars - Richard Berry 1987-12-13
An accessible, informative guide to identifying

constellations and other incredible features of the sky, whether you're hiking, camping, or stargazing from your backyard. Discover the Stars leads you on a tour of all the stars and constellations visible with the naked eye and introduces you to deep-sky objects that can be seen with binoculars or a simple telescope. The

tour is conducted by the editor of Astronomy magazine, Richard Berry, whose two-color, computer-plotted sky maps and clear instructions make stargazing fun and productive from your first night out. The heart of Discover the Stars is two sections of big, beautiful sky maps and charts. The first section features twelve maps that show the entire sky overhead as it appears during each month of the year. These outline all the constellations visible anywhere in the Northern Hemisphere, and the accompanying text reveals the rich ancient mythology that surrounds the star groups. The second section is made up of twenty-three star charts that depict smaller regions of the sky in great detail. These charts give the names of key stars and lead you to fascinating features such as stars with unusual colors, double stars, variable stars, nebulae, and galaxies. Separate chapters cover basics, such as how the stars move through the sky, how to find your way around the moon and the planets, making an

astronomer's flashlight, and choosing and using a telescope—all in terms that are easy to grasp and remember. Discover the Stars is the perfect introduction to the heavens, simple enough to be useful if you're just starting out but packed with enough information to keep you learning and enjoying the stars for years to come.

The ShortTube 80 Telescope - Neil T. English
2019-09-14

Welcome to the first comprehensive guide to one of the world's most popular telescopes: the ShortTube 80 refractor. With its ultra-portability, versatility, and relatively low cost, this telescope continues to delight generations of stargazers. Starting in the field under a dark sky, the author walks the reader through a typical evening of stargazing, where the ShortTube 80 brings many astronomical treasures into focus. From there, he provides an in-depth account of the optical properties of the ShortTube 80 refractor and the accessories and mounting arrangements that maximize its

potential both as a spotting 'scope by day and an astronomical 'scope by night. The main text discusses how the versatile ShortTube 80 can be used to study deep sky objects, the Sun, the Moon, bright planets and even high-resolution projects, where the instrument's features can be optimized for the observation of tight double and multiple stars. It explores how the ShortTube 80 can image targets using camera phones, DSLRs and dedicated astronomical CCD imagers. Packed with practical advice gained from years of firsthand stargazing experience, this book demonstrates exactly why ShortTube 80 has remained a firm favorite among amateur astronomers for over three decades, and why it is likely to remain popular for many years to come.

Star Ware - Philip S. Harrington 1998-07-27

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.

Celestial Objects for Modern Telescopes -

Michael A. Covington 2002-09-26

Based on field notes made by the author during

his own career as an amateur astronomer, this unique guide covers both the traditional and novel approaches to studying the night sky. In addition to the more standard techniques, it discusses the latest modern resources available to today's astronomer, such as personal computers, the Internet, and computerized telescopes. It includes practical advice on aspects such as site selection and weather; provides the reader with detailed instructions for observing the Sun, Moon, planets, and all types of deep-sky objects; and it introduces newer specialities such as satellite observing and the use of astronomical databases. The book concludes with detailed information about 200 stars, clusters, nebulae, and galaxies, suitable for viewing with modest-sized telescopes under suburban conditions. Written to complement *How to Use a Computerized Telescope*, this book will also appeal to astronomers with more traditional equipment.

[Australian Journal of Astronomy](#) - 1995

Illustrated Guide to Astronomical Wonders - Robert Thompson 2007

Offers basic information about astronomy, including its terminology, the best equipment to purchase for stargazing, and images of over one hundred objects to view in the night sky such as star clusters, nebulae, and galaxies.

Stargazing Under Suburban Skies - Malcolm Zack 2018-08-20

Anyone interested in astronomy battles with the conveniences of modern living – street lights, advertising and security lighting, tall buildings, and even the occasional tree. More than 85% of the population now lives in crowded and light-polluted towns and cities. This book is for those who live in or near towns and cities and own relatively modest equipment, although observers with larger instruments will still find many of the target objects of interest. The book encourages the use of star-hopping techniques to find objects in the night sky. Included is a list of 100 popular deep sky objects, ranked according to

how difficult they are to find. Each object is described and has companion star-hopping charts, images and sometimes sketches. As a result, readers can gain a sense of their own backyard view from Earth. There is also a top 30 list of lunar objects, a section on planetary observing, annotated lists of popular astronomy apps and software, and tips on how to make the most of your location. *Stargazing Under Suburban Skies: A Star-Hopper's Guide* is the essential companion to what can be seen and how, regardless of the obstacles.

Herschel 400 Observing Guide - Steve O'Meara 2007-06-14

Steve O'Meara's guide to the Herschel 400 for amateur astronomers.

Double Stars for Small Telescopes - Sissy Haas 2006

This catalog of double stars is among the most comprehensive ever printed. With over 2,100 star pairings listed with coordinates, color, and interesting information about every pair, *Double*

Stars for Small Telescopes is an essential addition to the library of every astronomy enthusiast. 248 pages, 8 1/2 x 11 inches, softcover.

50 Things to See with a Telescope - Kids - John A Read 2017-07-20

From the author of the bestselling book *50 Things to See with a Small Telescope*, this colorful edition explores the constellations with young readers, guiding them to dozens of galaxies, nebulae, and star clusters. Every page features a helpful "telescope view," showing exactly how objects appear through a small telescope or binoculars. While a member of the Mount Diablo Astronomical Society in California, John Read taught thousands of students how to use telescopes and explore the night sky. Now, he's sharing this knowledge with you! Even without a telescope, this introduction to the night sky is essential for every child's collection.

The Monthly Sky Guide - Ian Ridpath
2012-12-10

The ninth edition of Ian Ridpath and Wil Tirion's famous guide to the night sky is updated with planet positions and forthcoming eclipses to the end of the year 2017. It contains twelve chapters describing the main sights visible in each month of the year, providing an easy-to-use companion for anyone wanting to identify prominent stars, constellations, star clusters, nebulae and galaxies; to watch out for meteor showers ('shooting stars'); or to follow the movements of the four brightest planets, Venus, Mars, Jupiter and Saturn. Most of the sights described are visible to the naked eye and all are within reach of binoculars or a small telescope. This revised and updated edition includes sections on observing the Moon and the planets, with a comprehensive Moon map. The Monthly Sky Guide offers a clear and simple introduction to the skies of the northern hemisphere for beginners of all ages.

Deep-Sky Companions: The Caldwell Objects
- Stephen James O'Meara 2016-09-26

Appendix C William Herschel: the greatest visual observer of all time - by Larry Mitchell --

Appendix D Image credits -- Index

Celestial Harvest - James Mullaney 2013-05-27

Useful guide tells where to look for planets in Earth's solar system, as well as asteroids such as Ceres and Juno, open star clusters, diffuse nebulas, supernova remnants, spiral galaxies, and other phenomena.

Backyard Stargazer - Pat Price 2005

[Astronomy Without A Telescope](#) -

[Star-Hopping](#) - Robert A. Garfinkle 1997-04-13

Learn all about the starry skies and ancient myths through the star-hopping technique.

[Star Watch](#) - Philip S. Harrington 2003-07-24

Offers an introduction to locating and observing celestial objects, including tips on finding deep-sky objects and advice on the best times for viewing.

See It with a Small Telescope - Will Kalif

2017-12-26

Have fun exploring the stars with close-up views of space objects right from your own backyard!

Take the mystery and struggle out of discovering new worlds. With hands-on tips, tricks, and instructions, this book allows you to unleash the full power of your small telescope and view amazing space objects right from your own backyard, including: • Saturn's Rings • Jupiter's Moons • Apollo 11's Landing Site • Orion Nebula • Andromeda Galaxy • Polaris Double Star • Pegasus Globular Cluster • and much, much more! "An observation guide, mentor, and historical tour all in one." —Space.com

Observer's Handbook 2022 - Société royale d'astronomie du Canada 2021

Sophie's World - Jostein Gaarder 2007-03-20

One day Sophie comes home from school to find two questions in her mail: "Who are you?" and "Where does the world come from?" Before she knows it she is enrolled in a correspondence

course with a mysterious philosopher. Thus begins Jostein Gaarder's unique novel, which is not only a mystery, but also a complete and entertaining history of philosophy.

Celestial Sampler - Sue French 2005

Take a tour of the universe with Sky & Telescope Contributing Editor Sue French. With 60 Small Scope Sampler columns, you will be out and exploring the wonders of the night sky in no time. Most of the objects are visible in a 4-inch telescope, making this full-color and easy-to-use book perfect for the backyard astronomer!

[Building a Roll-Off Roof Observatory](#) - John Stephen Hicks 2009-03-02

Almost every amateur astronomer who has taken the pursuit to its second level aspires to a fixed, permanent housing for his telescope, permitting its rapid and comfortable use avoiding hours of setting-up time for each observing session. A roll-off roof observatory is the simplest and by far the most popular observatory design for today's practical astronomers. Building a Roll-off

Roof Observatory is unique, covering all aspects of designing a roll-off roof observatory: planning the site, viewing requirements, conforming to by-laws, and orientation of the structure. The chapters outline step-by-step construction of a typical building. The author, both an amateur astronomer and professional landscape architect, is uniquely qualified to write this fully-detailed book. A professionally designed roll-off observatory could cost as much as \$3000 just for the plans - which are provided free with Building a Roll-off Roof Observatory.

Luna Cognita - Robert A. Garfinkle 2020-03-13

All three volumes sold as a combined set for a one-time purchase! This comprehensive three-volume set takes you on an incomparable journey of our closest celestial neighbor. Not since the golden age of 19th-century lunar guidebooks has one author managed to cover the Moon in such detail as this all-in-one handbook. Volume 1 begins with a section on the Moon's place in human history, mythology and

lore, before gravitating closer to the Moon itself through scientific sections on the Earth-Moon system, lunar motions and cycles. Following these are technical chapters on how to purchase, use and care for lunar observing and photography equipment. Techniques for observing the Moon (both with the naked eye and optical instruments) are detailed as the reader approaches the Moon's surface on this visual tour-de-force. A close-up exploration of the Moon is the result. The "crater-hop" chapters in Volumes 1 and 2 discuss the physical aspects of the Moon's features, offering brief biographical information on the person for whom the feature is named, as well as how each individual was involved in the development of science and selenography from ancient to modern times. Volume 3 contains a plethora of useful appendices that cover a range of topics, from catalogues of lunar features such as nearside lunar domes to a comprehensive list of publishers and observing organizations. Luna

Cognita goes far beyond any recent work in both breadth and depth of coverage on the Moon. Written in an accessible, engaging manner for readers of all backgrounds and levels of expertise, this handbook is thus an invaluable resource for anybody who looks up at the glowing sphere in the night sky and wants to learn more about the "Known Moon."

Stargazing For Dummies - Steve Owens
2013-03-18

Reach for the stars Stargazing is the practice of observing the night sky and its contents - from constellations through to planets and galaxies. Stars and other night sky objects can be seen with the naked eye, or seen in greater numbers and in more detail with binoculars or a telescope. Stargazing For Dummies offers you the chance to explore the night sky, providing a detailed guide to the main constellations and also offering advice on viewing other night sky objects such as planets and nebulae. It's a great introduction to a fun new hobby, and even

provides a fun way to get the kids outside while doing something educational! Gives you an introduction to looking at the sky with binoculars or a telescope Offers advice on photographing the night sky Without needing to get your head around mind-bending theories, you can take part in some practical physics If you're looking for easy-to-follow guidance on getting to know the night sky, Stargazing For Dummies has you covered.

Turn Left at Orion - Guy J. Consolmagno
1995-01-19

Turn Left at Orion is a guidebook for beginning amateur astronomers. The Moon, planets and nearly a hundred deep sky objects, visible in the Northern hemisphere, are shown exactly as they appear in a small telescope (50-75 mm, or 2-3 inches aperture). The book provides all the information you need to find these, and other objects, in the night sky. There are plenty of maps to get you located, and the large format drawings accurately depict what you can expect

to see. For each object there is information on the current state of our astronomical knowledge. Unlike many guides to the night sky, this one is specifically written for observers using small telescopes. No previous knowledge of astronomy is needed, and since the descriptions are non-technical, sky-watchers of all ages and backgrounds can enjoy and profit from this book. In the revised edition of this successful book, first published in 1989, the authors have brought information on the planets and eclipses up to date and extended the tables to the year AD 2006.

Galaxies and How to Observe Them - Wolfgang Steinicke
2007-01-04

This book is a unique work satisfying the need for a modern, comprehensive review of all major aspects of galaxy observation. The book combines the physical background on the nature and data of galaxies, the relevant instrumentation and viewing techniques, and finally the targets and their individual

appearance in telescopes of various apertures. A comprehensive sample of galaxies, including quasars, groups and clusters of galaxies is presented. This combination of theoretical knowledge and practical information guarantees successful observing sessions. Furthermore, the book is clearly structured with outstanding images and graphics.

The Stars Night by Night - Brian Jones
2016-05-19

Deep-Sky Wonders - Sue French 2020-10
"The quality of the deep-sky images is outstanding--a tribute to the various photographers as well as the book's printer. But it's the written word that will make or break a book like this, and Sue's writing is superb... [For] an occasional stargazer, a serious observer, or anyone in between, you won't go wrong with *Deep-Sky Wonders*. This is a great introduction to deep-sky stargazing for novice and experienced amateur astronomers alike." --

Mercury, publication of the Astronomical Society of the Pacific Sue French writes the popular column "Deep-Sky Wonders" for *Sky and Telescope* magazine and also teaches deep sky observation. She has earned a loyal following among enthusiasts and is welcomed by beginners for her skill at presenting astronomy in an understandable way. After selling 10,000 copies of *Deep-Sky Wonders* in hardcover, we expect a good response for this paperback edition at an accessible price. *Deep-Sky Wonders* is a collection of 100 of French's best "Deep-Sky Wonders" columns originally published in *Sky and Telescope*, which has a monthly readership exceeding 100,000. The book is organized by season and subdivided into months for a total of 100 in-depth tours of the deep sky. Each deep sky tour illuminates little-known seasonal wonders that lie off the beaten path. Features include: Full-color photographs and detailed sketches of each deep sky tour
Descriptions of double and variable stars, star

clusters, nebulae, galaxies and exotics Historical and scientific background of particular interest A tabular listing of the deep-sky sites Color charts showing the position of each target in the night sky An index to all of the deep-sky objects covered. Deep-Sky Wonders also features a variety of challenging objects that encourage observers to test the limits of their equipment and skills. Suitable for beginner and intermediate small-scope astronomers as well as large-scope viewers and astrophotographers, this book will be greeted enthusiastically by all Sky and Telescope readers. It is also an outstanding introduction to deep-sky viewing for novice observers.

Star Finder! - DK 2017-10-10

Turn your eyes to the skies for this starry-eyed spectacular! Take this practical page-turner on your out-of-this-world adventure to experience cosmic wonders, key constellations, and intergalactic information. Includes crystal-clear visuals, easy-to-read maps, and top tips, you'll

have no problems navigating the starry night with this indispensable guide. Discover the most important constellations visible in the Northern Hemisphere, read the amazing stories behind each constellation, recognize the constellations of the zodiac, and experience the Milky Way as never before. Learn how to spot planets, galaxies, and nebulas in our Universe, as mind-blowing patterns in the sky are revealed in unprecedented detail. Star Finder! is the complete guide for aspiring astronomers and rising stars everywhere.

Every Soul a Star - Wendy Mass 2008-10-01
And as streams of light fan out behind the darkened sun like the wings of a butterfly, I realize that I never saw real beauty until now. At Moon Shadow, an isolated campground, thousands have gathered to catch a glimpse of a rare and extraordinary total eclipse of the sun. It's also were three lives are about to be changed forever: Ally likes the simple things in life--labyrinths, star-gazing, and comet-hunting.

Her home, the Moon Shadow campground, is a part of who she is, and she refuses to imagine it any other way. Popular and gorgeous (everybody says so), Bree is a future homecoming queen for sure. Bree wears her beauty like a suit of armor. But what is she trying to hide? Overweight and awkward, Jack is used to spending a lot of time alone. But when opportunity knocks, he finds himself in situations he never would have imagined and making friends in the most unexpected situations. Told from three distinct voices and perspectives, Wendy Mass weaves an intricate and compelling story about strangers coming together, unlikely friendships, and finding one's place in the universe.

National Geographic Backyard Guide to the Night Sky, 2nd Edition - Andrew Fazekas
2019-03-19

Explore the star-studded cosmos with this fully updated, user-friendly skywatcher's guide, filled with charts, graphics, photographs, and expert tips for viewing -- and understanding -- the

wonders of space. Stargazing's too much fun to leave to astronomers. In these inviting pages, "Night Sky Guy" Andrew Fazekas takes an expert but easygoing approach that will delight would-be astronomers of all levels. Essential information, organized logically, brings the solar system, stars, and planets to life in your own backyard. Start with the easiest constellations and then "star-hop" across the night sky to find others nearby. Learn about the dark side of the moon, how to pick Mars out of a planetary lineup, and which kinds of stars twinkle in your favorite constellations. Hands-on tips and techniques for observing with the naked eye, binoculars, or a telescope help make the most out of sightings and astronomical phenomena such as eclipses and meteor showers. Photographs and graphics present key facts in an easy-to-understand format, explaining heavenly phenomena such as black holes, solar flares, and supernovas. Revised to make skywatching even easier for the whole family,

this indispensable guide shines light on the night sky--truly one of the greatest shows on Earth!

50 Things to See with a Small Telescope (Southern Hemisphere Edition) - John A Read
2017-05-28

This special edition has been designed specifically for aspiring astronomers living south of the equator. This book explores the planets, stars, galaxies and nebulae observable from the southern hemisphere. Not only does this book illustrate how to observe, it also shows how each object appears through a small telescope!

110 Things to See With a Telescope - John Read
2021-08

This book and a telescope are all you need to find, view, and record your observations of the most popular stargazing targets. But what makes this list so famous? Over 200 years ago, the French comet hunter Charles Messier published a list of fuzzy, comet-like objects he saw through his telescope. To him, they were a nuisance. We now know them as star clusters,

nebulae, and galaxies! Modern astronomers later expanded his list from 103 to 110 objects - and they're some of the finest celestial sights to explore with your backyard telescope, especially after you're ready to move beyond the Moon and planets. This book is your guide to seeing each deep sky object in Messier's list - plus a complete how-to for budding astronomers.

Finding the 110 Messier (pronounced Messy-ay) objects has never been easier! We provide a star map for each target - plus written directions for how to find it by star-hopping, an "eyepiece view" image to confirm you're seeing it, observing tips from two veteran stargazers, and interesting facts. We also highlight additional nearby objects. These objects are presented in their recommended viewing order - either by season, or during an all-night marathon! Each page contains an observation log so you can track your progress, and later apply for a Messier Observing Certificate from the Astronomical League and the Royal

Astronomical Society of Canada. Certificate Application instructions are provided in the appendix of the book.

Star-Hopping for Backyard Astronomers -

Alan M. MacRobert 1993

Introduces amateur astronomy, explains how to use sky maps, binoculars, and telescopes, and suggests fourteen separate tours of the night sky

A Stargazing Program for Beginners - Jamie

Carter 2015-11-20

Sets out a simple month-by-month program to reveal all of the night sky's biggest and most beautiful secrets in just one year - and with only a few hours of stargazing each month By investing just an hour a week and \$50 in binoculars, it's possible to learn a few simple techniques and quickly gain a real insight into the night sky's ever-changing patterns - and what they tell us about Earth, the seasons and ourselves. Searching more for a learned appreciation of nature and our exact place within the cosmos than academic scientific

knowledge, science and travel writer Jamie Carter takes the reader on a 12 month tour of the night sky's incredible annual rhythms that say so much about Earth. During the journey he learns about the celestial mechanics at work in the skies above that are - to the beginner - almost beyond belief. As well as the vital constellations and clusters, and the weird and wonderful nebulas, he searches out "dark sky destinations" across the globe that help increase knowledge and give a new perspective on familiar night sky sights. On the journey he witnesses a solar eclipse and grapples with star-charts, binoculars, smartphone apps, telescopes, spots satellites and attempts basic astro-photography. By year's end, the reader will be able to glance at the night sky from anywhere on the planet and tell what direction he or she is facing, what time it is, where all the planets are and even where the Galactic Center Point is.

Turn Left at Orion - Guy Consolmagno

2011-09-22

With over 100,000 copies sold since first publication, this is one of the most popular astronomy books of all time. It is a unique guidebook to the night sky, providing all the information you need to observe a whole host of celestial objects. With a new spiral binding, this edition is even easier to use outdoors at the telescope and is the ideal beginner's book. Keeping its distinct one-object-per-spread format, this edition is also designed for Dobsonian telescopes, as well as for smaller reflectors and refractors, and covers Southern hemisphere objects in more detail. Large-format eyepiece views, positioned side-by-side, show objects exactly as they are seen through a telescope, and with improved directions, updated tables of astronomical information and an expanded night-by-night Moon section, it has never been easier to explore the night sky on your own. Many additional resources are available on the accompanying website, www.cambridge.org/turnleft.

The Backyard Astronomer's Guide - Terence Dickinson 2021-09-15

The touchstone for contemporary stargazers. This classic, groundbreaking guide has been the go-to field guide for both beginning and experienced amateur astronomers for nearly 30 years. The fourth edition brings Terence Dickinson and Alan Dyer's invaluable manual completely up-to-date. Setting a new standard for astronomy guides, it will serve as the touchstone for the next generation of stargazers as well as longtime devotees. Technology and astronomical understanding are evolving at a breathtaking clip, and to reflect the latest information about observing techniques and equipment, this massively revised and expanded edition has been completely rebuilt (an additional 48 pages brings the page count to 416). Illustrated throughout with all-new photographs and star charts, this edition boasts a refreshed design and features five brand-new chapters, including three essential essays on

binocular, telescope and Moon tours by renowned astronomy writer Ken Hewitt-White. With new content on naked-eye sky sights, LED lighting technology, WiFi-enabled telescopes and the latest advances in binoculars, telescopes and other astronomical gear, the fourth edition of *The Backyard Astronomer's Guide* is sure to become an indispensable reference for all levels of stargazers. New techniques for observing the Sun, the Moon and solar and lunar eclipses are an especially timely addition, given the upcoming solar eclipses in 2023 and 2024. Rounding out these impressive offerings are new sections on dark sky reserves, astro-tourism, modern astrophotography and cellphone astrophotography, making this book an enduring must-have guide for anyone looking to improve his or her astronomical viewing experience. *The Backyard Astronomer's Guide* also features a foreword by Dr. Sara Seager, a Canadian-American astrophysicist and planetary scientist at the Massachusetts Institute of Technology and

an internationally recognized expert in the search for exoplanets.

Astronomy Hacks - Robert Bruce 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.

The Observing Guide to the Messier Marathon - Don Machholz 2002-10-10

Offers advice, illustrations, and celestial maps to aid astronomers seeking to complete the "Messier marathon," a tradition which attempts to locate, in one night, the 110 galaxies, star clusters, and nebulae cataloged by the French astronomer some two hundred years ago.