

DEEP-SKY COMPANIONS

# The Messier Objects



Stephen James O'Meara

With a Foreword by David H. Levy



# Deep Sky Companions The Messier Objects

**Stephen P. Maran**



## **Deep Sky Companions The Messier Objects:**

**The Messier Objects** Stephen James O'Meara, 1998 21st Century Science Grant      **Deep-Sky Companions: The Messier Objects** Stephen James O'Meara, 2014-04-07 This updated Deep Sky Companion features improved star charts for finding every Messier Object and a complete history of their discovery      **Deep-Sky Companions: Hidden Treasures** Stephen James O'Meara, 2007-04-12 Stephen O Meara's new and exciting observing guide spotlights an original selection of 109 deep sky objects that will appeal to sky watchers worldwide His hidden treasures include a wonderful assortment of galaxies open clusters planetary nebulae and more all of which have been carefully chosen based on their popularity and ease of observing None of these objects are included in either the Messier or the Caldwell catalogs and all are visible in a 4 inch telescope under dark skies Stunning photographs and beautiful drawings accompany detailed visual descriptions of the objects which include their rich histories and astrophysical significance The author's original finder charts are designed to help observers get to their targets fast and efficiently      *Deep-Sky Companions: The Caldwell Objects* Stephen James O'Meara, 2002 A complete observers guide to the Caldwell Objects      **Deep-Sky Companions: The Caldwell Objects** Stephen James O'Meara, 2016 The Caldwell Catalogue compiled by the late Sir Patrick Moore 1923 2012 has delighted amateur astronomers worldwide since its publication in 1995 Twenty years on Stephen James O Meara revisits his guide to these 109 deep sky delights breathing new life into them and the 20 additional observing targets included as an appendix This second edition retains O Meara's detailed visual descriptions and sketches accompanied by stunning new images taken by amateur photographer Mario Motta and observations by Magda Streicher The astrophysical descriptions have been updated to account for the many advances in our understanding of the objects not least due to an armada of space borne observatories and the new technologies used in large ground based telescopes Ideal for observers who have completed the Messier objects and are looking for their next challenge *Deep Sky Companions The Caldwell Objects* is a fitting tribute from a renowned visual observer to one of astronomy's most famous personalities      *Deep-Sky Companions: The Secret Deep* Stephen James O'Meara, 2011-06-30 In this fresh list Stephen James O Meara presents 109 new objects for stargazers to observe The Secret Deep list contains many exceptional objects including a planetary nebula whose last thermal pulse produced a circumstellar shell similar to the one expected in the final days of our Sun's life a piece of the only supernova remnant known visible to the unaided eye the flattest galaxy known the largest edge on galaxy in the heavens the brightest quasar and the companion star to one of the first black hole candidates ever discovered Each object is accompanied by beautiful photographs and sketches original finder charts visual histories and up to date astrophysical information to enrich the observing experience Featuring galaxies clusters and nebulae not covered in other Deep Sky Companions books this is a wonderful addition to the series and an essential guide for any deep sky observer      **Deep-Sky Companions: The Secret Deep** Stephen James O'Meara, 2011-06-30 In this fresh list Stephen James O Meara presents 109 new objects for stargazers

to observe The Secret Deep list contains many exceptional objects including a planetary nebula whose last thermal pulse produced a circumstellar shell similar to the one expected in the final days of our Sun's life a piece of the only supernova remnant known visible to the unaided eye the flattest galaxy known the largest edge on galaxy in the heavens the brightest quasar and the companion star to one of the first black hole candidates ever discovered Each object is accompanied by beautiful photographs and sketches original finder charts visual histories and up to date astrophysical information to enrich the observing experience Featuring galaxies clusters and nebulae not covered in other Deep Sky Companions books this is a wonderful addition to the series and an essential guide for any deep sky observer Deep-sky Companions ,2002 **The Messier Objects Field Guide** Stephen James O'Meara,1998 **Herschel 400 Observing Guide** Stephen James O'Meara,2007-06-14 Steve O Meara's guide to the Herschel 400 for amateur astronomers *A Buyer's and User's Guide to Astronomical Telescopes and Binoculars* James Mullaney,2013-10-10 Amateur astronomers of all skill levels are always contemplating their next telescope and this book points the way to the most suitable instruments Similarly those who are buying their first telescopes and these days not necessarily a low cost one will be able to compare and contrast different types and manufacturers This exciting and revised new guide provides an extensive overview of binoculars and telescopes It includes detailed up to date information on sources selection and use of virtually every major type brand and model on today's market a truly invaluable treasure trove of information and helpful advice for all amateur astronomers Originally written in 2006 much of the first edition is inevitably now out of date as equipment advances and manufacturers come and go This second edition not only updates all the existing sections of A Buyer's and User's Guide to Astronomical Telescopes and Binoculars but adds two new ones Astro imaging and Professional Amateur collaboration Thanks to the rapid and amazing developments that have been made in digital cameras not those specialist cool chip astronomical cameras not even DSLRs but regular general purpose vacation cameras it is easily possible to image all sorts of astronomical objects and fields Technical developments including the Internet have also made it possible for amateur astronomers to make a real contribution to science by working with professionals Selecting the right device for a variety of purposes can be an overwhelming task in a market crowded with observing options but this comprehensive guide clarifies the process Anyone planning to purchase binoculars or telescopes for astronomy whether as a first instrument or as an upgrade to the next level will find this book a treasure trove of information and advice It also supplies the reader with many useful hints and tips on using astronomical telescopes or binoculars to get the best possible results from your purchase **A Buyer's and User's Guide to Astronomical Telescopes & Binoculars** James Mullaney,2007-05-26 Both beginning novice amateur astronomers at the level of Astronomy and Night Sky magazine readers as well as more advanced amateur astronomers level of Sky and Telescope will find this book invaluable and fascinating It includes detailed up to date information on sources selection and use of virtually every major type brand and model of such instruments on today's market The book also

includes details on the latest released telescope lines e g the 10 12 14 and 16 inch aperture models of the Meade LX R series As a former editor for Sky Telescope Astronomy and Star Sky magazines the author is the ideal person to write this book

**Cosmic Challenge** Philip S. Harrington, 2010-10-21 Listing more than 500 sky targets both near and far in 187 challenges this observing guide will test novice astronomers and advanced veterans alike Its unique mix of Solar System and deep sky targets will have observers hunting for the Apollo lunar landing sites searching for satellites orbiting the outermost planets and exploring hundreds of star clusters nebulae distant galaxies and quasars Each target object is accompanied by a rating indicating how difficult the object is to find an in depth visual description an illustration showing how the object realistically looks and a detailed finder chart to help you find each challenge quickly and effectively The guide introduces objects often overlooked in other observing guides and features targets visible in a variety of conditions from the inner city to the dark countryside Challenges are provided for the naked eye through binoculars and the largest backyard telescopes

*Deep Sky Objects* David H. Levy, 2005-11-07 Veteran comet hunter and eloquent popular astronomy writer David H Levy takes amateur sky watchers on a fascinating journey into deep space in this enthusiastic and informative survey of the many far distant yet observable objects in the night sky Light years beyond our solar system deep sky objects include such intriguing phenomena as double and triple stars nebulae galaxies and quasars Designed to be accessible for even beginners Levy s clear elegant descriptions will guide astronomy buffs in any hemisphere and locale light polluted cities as well as dark countryside to the wonders of our enormous universe As the discoverer or codiscoverer of twenty one comets including the famous Shoemaker Levy 9 that crashed into Jupiter in 1994 Levy has devoted many decades of experience to observing the night sky Over the years he has located over 300 deep sky objects of which more than 100 best and brightest are featured in this book Levy offers a physical description and a discussion of each object s history and beauty as well as a star atlas to aid in finding the objects Proceeding from objects closest to our solar system to those farthest away Levy gives readers an awe inspiring glimpse into the structure of the cosmos Complete with both color and black and white photos plus many helpful illustrations *Deep Sky Objects* is the ideal guide to the wonders of the universe for both experienced and novice star gazers

**Astronomy For Dummies** Stephen P. Maran, 2012-10-04 The fun and easy way to explore the night sky Do you know the difference between a red giant and a white dwarf From asteroids to black holes this easy to understand guide takes you on a grand tour of the universe Featuring updated star maps charts and an insert with gorgeous full color photographs *Astronomy For Dummies* provides an easy to follow introduction to the night sky Plus this new edition also gives you the latest theories explanations and insights into the basic workings of the universe Includes updated schedules of coming eclipses of the Sun and Moon and a revised planetary appendix Covers recent discoveries in space such as water on the Moon and Pluto s demotion from planet status Collects new websites lists of telescope motels sky watching guides and suggestions for beginner s telescopes and suppliers Brings you up to speed on the latest social trends and personal technology such as

stargazing mobile apps NASA video and the prevalence of Citizen Science networks Whether you re an amateur astronomer space enthusiast or enrolled in a first year astronomy course Astronomy For Dummies has you covered     **Deep Sky Observer's Guide** Neil Bone,2005 Deep Sky refers to the universe beyond our own solar system Using binoculars or telescopes any sky gazer can become a deep sky observer Deep Sky Observer s Guide looks beyond individual stars to target Star clusters Double Stars Nebulae Galaxies The Deep Sky Observer s Guide introduces the basics of observing and explains what equipment is required A chapter is devoted to each type of deep sky target There are more than 200 such objects featured with 126 color illustrations and star finder charts The Deep Sky Observer Guide is also available in a convenient pack ISBN 1 55407 025 2 that comes with deep sky charts and an observing calendar     **Sky Atlas 2000.0 Companion** Robert A. Strong,Roger W. Sinnott,2000 This essential astronomical reference features an alphabetical listing of every deep sky object plotted in Sky Atlas 2000 0 Second Edition The main section describes each star cluster nebula and galaxy with cross references to chart numbers while a chart by chart listing provides coordinates object types constellations and apparent magnitudes     **Hidden Treasures** Stephen James O'Meara,2007-01-01 Stephen O Meara s new and exciting observing guide spotlights an original selection of 109 deep sky objects that will appeal to sky watchers worldwide His hidden treasures include a wonderful assortment of galaxies open clusters planetary nebulae and more all of which have been carefully chosen based on their popularity and ease of observing None of these objects are included in either the Messier or the Caldwell catalogs and all are visible in a 4 inch telescope under dark skies Stunning photographs and beautiful drawings accompany detailed visual descriptions of the objects which include their rich histories and astrophysical significance The author s original finder charts are designed to help observers get to their targets fast and efficiently

**Deep-Sky Companions: Southern Gems** Stephen James O'Meara,2013-04-08 In Southern Gems Stephen James O Meara makes a detour beneath the southern skies presenting a fresh list of 120 deep sky objects for southern hemisphere stargazers to observe Showcasing many exceptional objects catalogued by the pioneering observer James Dunlop known as the Messier of the southern skies all are visible through small to moderate sized telescopes or binoculars under dark skies The list features some of the blackest dark nebulae icy blue planetary nebulae and magnificent galaxies of all types Each object is accompanied by beautiful photographs and sketches original finder charts visual histories and up to date astrophysical background information Whether you live in the southern hemisphere or are just visiting this new Deep Sky Companion will make a perfect observing partner whatever your background There is no other southern sky guide like it on the market     *The Irish Astronomical Journal* ,2000

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number below the symbol is the approximate atomic weight of the element uses of periodic table a it gives a clear and distinct classification of almost all elements b it helps for the prediction of new elements c

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