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Spring \ "Galaxy Season" 2020 Scientific Astrophotography How Amateurs Can Generate Professional Imaging Data The Patrick Moore Practical Astronomy Series

Scientific Astrophotography is intended for those amateur astronomers who are looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It will also be a useful reference for scientifically inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging.

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Gerald R. Hubbell. Springer Science & Business Media, Nov 9, 2012 - Science - 333 pages. 0 Reviews. Scientific Astrophotography is intended for those amateur astronomers who are looking for new...

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Astrophotography can be its own reward, but there are ways to dig deeper. Here are some ways to do quantitative science with your images. If you are reading this, you are probably an amateur astronomer using a modern digital camera to capture the sky. An amateur astronomer is an amateur scientist. There are personal aptitudes that led you here, and for some people that aptitude leans more towards the artistic/qualitative side of astrophotography, and for others it leans more towards the ...

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Introduction. Scientific Astrophotography

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is a work for those amateur astronomers looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It is a wonderful reference for scientifically-inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging.

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The golden age of amateur science in astronomy is gone. People selling 8 to 10cm diameter robotic telescopes claiming they can be used for "science" should learn a little bit about astronomy in 2020 before making such invalid publicity claims (or show publications done using observations made with these toys).

~~The Scientific Value of "Pretty Pictures"—Sky & Telescope~~

First published in 1999, this much

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expanded and updated edition of the best-selling handbook *Astrophotography for the Amateur* provides a complete guide to taking pictures of stars, galaxies, the Moon, the Sun, comets, meteors and eclipses, using equipment and materials readily available to the hobbyist. In this new edition, the book has been completely revised and now includes new chapters on computer image processing and CCD imaging; expanded advice on choosing cameras and telescopes;

~~Astrophotography for the Amateur~~

Today, astrophotography is mostly a subdiscipline in amateur astronomy, usually seeking aesthetically pleasing images rather than scientific data.

Amateurs use a wide range of special equipment and techniques.

~~Astrophotography~~ — Wikipedia

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Astrophotography for the Amateur has become the standard handbook for all amateur astronomers. This expanded and updated edition provides an ideal introduction for beginners and a complete handbook for advanced amateurs. It will also appeal to photography enthusiasts who can discover how to take spectacular images with only modest equipment.

Scientific Astrophotography is intended for those amateur astronomers who are looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It will also be a useful reference for scientifically inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging. This

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books is not about making beautiful astronomical images; it is about recording astronomical images that are scientifically rigorous and from which accurate data can be extracted. This book is unique in that it gives readers the skills necessary for obtaining excellent images for scientific purposes in a concise and procedurally oriented manner. This not only gets the reader used to a disciplined approach to imaging to maximize quality, but also to maximize the success (and minimize the frustration!) inherent in the pursuit of astrophotography. The knowledge and skills imparted to the reader of this handbook also provide an excellent basis for “beautiful picture” astrophotography! There is a wealth of information in this book – a distillation of ideas and data presented by a diverse set of sources and based on the most recent techniques, equipment, and data available to the

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amateur astronomer. There are also numerous practical exercises. Scientific Astrophotography is perfect for any amateur astronomer who wants to go beyond just astrophotography and actually contribute to the science of astronomy.

Scientific Astrophotography is intended for those amateur astronomers who are looking for new challenges, once they have mastered visual observing and the basic imaging of various astronomical objects. It will also be a useful reference for scientifically inclined observers who want to learn the fundamentals of astrophotography with a firm emphasis on the discipline of scientific imaging. This book is not about making beautiful astronomical images; it is about recording astronomical images that are scientifically rigorous and from which accurate data can be extracted. This book is unique in that it

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gives readers the skills necessary for obtaining excellent images for scientific purposes in a concise and procedurally oriented manner. This not only gets the reader used to a disciplined approach to imaging to maximize quality, but also to maximize the success (and minimize the frustration!) inherent in the pursuit of astrophotography. The knowledge and skills imparted to the reader of this handbook also provide an excellent basis for “beautiful picture” astrophotography! There is a wealth of information in this book – a distillation of ideas and data presented by a diverse set of sources and based on the most recent techniques, equipment, and data available to the amateur astronomer. There are also numerous practical exercises. Scientific Astrophotography is perfect for any amateur astronomer who wants to go beyond just astrophotography and actually

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Amateur's Can Contribute to the Science of Astronomy.

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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

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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

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Wealth of information can be 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

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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

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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.

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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)

This book, first published in 1997, is for telescope owners wanting to improve their

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skills and make observations of real and lasting scientific value.

First published in 1999, this is an expanded and updated edition of the best-selling, standard handbook on astrophotography for amateurs.

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.

Culled from the pages of the nation's top science magazine, this collection of projects for amateur astronomers shares advice on everything from predicting the orbits of satellites to identifying the chemical makeup of distant stars. Original.

Here are clear explanations of how to

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make superb astronomical deep-sky images using only a DSLR or webcam and an astronomical telescope – no expensive dedicated CCD cameras needed! The book is written for amateur astronomers interested in budget astrophotography – the deep sky, not just the Moon and planets – and for those who want to improve their imaging skills using DSLR and webcams. It is even possible to use existing (non-specialist astronomical) equipment for scientific applications such as high resolution planetary and lunar photography, astrometry, photometry, and spectroscopy. The introduction of the CCD revolutionized astrophotography. The availability of this technology to the amateur astronomy community has allowed advanced science and imaging techniques to become available to almost anyone willing to take the time to learn a few, simple techniques. Specialized cooled-

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chip CCD imagers are capable of superb results in the right hands – but they are all very expensive. If budget is important, the reader is advised on using a standard camera instead. Jensen provides techniques useful in acquiring beautiful high-quality images and high level scientific data in one accessible and easy-to-read book. It introduces techniques that will allow the reader to use more economical DSLR cameras – that are of course also used for day-to-day photography – to produce images and data of high quality, without a large cash investment.

Charge-coupled Devices (CCDs) have revolutionised astronomy. Even affordable CCD cameras can be ten times as sensitive as photographic film, and they deliver a digitised image that is easy to enhance using a personal computer. David

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Ratledge has brought together contributions from twelve leading amateurs from around the world, people who are routinely producing astronomical images of a quality that rivals those of professional observatories only of 10 years ago. These experts describe their techniques and solutions, and offer essential tips and advice for anyone who is choosing or using a CCD camera. Now glance through the Colour Gallery at the back of this book to see just what they have done!

The Astrophotography Manual, Second Edition is for photographers ready to move beyond standard SLR cameras and editing software to create beautiful images of nebulas, galaxies, clusters, and the stars. Beginning with a brief astronomy primer, this book takes readers through the full astrophotography process, from choosing

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and using equipment to image capture, calibration, and processing. This combination of technical background and hands-on approach brings the science down to earth, with practical methods to ensure success. This second edition now includes: Over 170 pages of new content within 22 new chapters, with 600 full-color illustrations. Covers a wide range of hardware, including mobile devices, remote control and new technologies. Further insights into leading software, including automation, Sequence Generator Pro and PixInsight Ground-breaking practical chapters on hardware and software as well as alternative astrophotography pursuits

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