



Lunar Atlas

Lunar map



Lunar Atlas:

The Hatfield SCT Lunar Atlas Anthony Cook, 2013-10-11 In 2004 it became obvious that Henry Hatfield's original atlas wasn't suitable for all current commercially made amateur telescopes Newtonian telescopes and astronomical refractors for many years the only choice for amateurs invert the observed image The standard Hatfield Atlas therefore follows the IAU International Astronomical Union convention of having maps and photographs with South at the top and West on the left an inverted image However the current ranges of Schmidt Cassegrain and Maksutov telescopes that's most of those manufactured by Meade Celestron and many others don't invert the observed image but instead reverse it left for right That's with North at the top and East on the left Because of the way the human visual system works it is almost impossible to mentally mirror image a map to compare it with the view through the eyepiece so even turning an IAU standard atlas upside down doesn't help This new SCT version of the Atlas solves this problem for observers Identification of lunar features is made quick and easy The new digitally re-mastered second edition vastly improves the clarity and definition of the original photographs significantly beyond the resolution limits of the photographic grains present in earlier atlas versions whilst preserving the layout and style of the original publications This has been achieved by merging computer visualized Earth based views of the lunar surface derived from NASA's Lunar Reconnaissance Orbiter data with scanned copies of Commander Hatfield's photographic plates using the author's own software The result is a The Hatfield SCT Lunar Atlas for 21st century amateur telescopes up to and beyond 12 inch aperture It contains all the features that made the original so widely used a combination of an index of all International Astronomical Union named primary lunar features and twelve chart areas help to locate any named lunar features of interest that can each be examined under typically five different states of illumination Close ups of interesting features are also included The new Atlas is supplemented by an introduction to its use a short description of the digital re-mastering technique and a completely new section describing lunar observing techniques At the end of the atlas there is an index of all named features and crater diameters along with a summary table of the dates and times that the original Hatfield images represent

The Six-Inch Lunar Atlas Don Spain, 2009-10-03 Here is a lunar atlas designed specifically for use in the field by lunar observers Its title The Six inch Lunar Atlas refers both to the aperture of the telescope used to make the images in the book and also to the book's physical size so it's perfect for fitting into an observer's pocket The author's own lunar photographs were taken with a 6 inch 150mm telescope and CCD camera and closely match the visual appearance of the Moon when viewed through a modest 3 inch to 8 inch telescope Depending on seeing of course Each picture is shown oriented as the Moon really is when viewed from the northern hemisphere and is supplemented by exquisite computer sketches that list the main features Two separate computer sketches are provided to go with each photograph one oriented to appear as seen through an SCT telescope e.g. the Meade and Celestron ranges the other oriented for Newtonian and refracting telescopes It is worth commenting that most observers find it extremely difficult

to identify lunar features when using a conventional atlas and SCT telescope the human brain is very poor at making mirror image visual translations There is a page of descriptions for the salient features in each photograph [Lunar Atlas](#) North American Aviation. Space Sciences Laboratory, Dinsmore Alter, North American Aviation, inc. Space Sciences Laboratory, 1968 The introduction states that the main intention of the atlas is to aid lunar research by presenting the surface of the moon in accurate photographic and descriptive detail from a fundamental selenographic and astronomical point of view More detailed photographs have obviously been obtained since [Rectified Lunar Atlas](#) Ewen Adair Whitaker, Gerard Peter Kuiper, Lunar and Planetary Laboratory, United States. Aeronautical Chart and Information Service, 1963 *The Hatfield Lunar Atlas* Anthony Cook, 2012-12-12 The Hatfield Lunar Atlas has become an amateur lunar observer's bible since it was first published in 1968 A major update of the atlas was made in 1998 using the same wonderful photographs that Commander Henry Hatfield made with his purpose built 12 inch 300 mm telescope but bringing the lunar nomenclature up to date and changing the units from Imperial to S I metric This edition is important since the fact is that modern telescope optics digital imaging equipment and computer enhancement can easily surpass what was achieved with Henry Hatfield's 12 inch telescope and a film camera This limits the usefulness of the original atlas to visual observing or imaging rather than small amateur telescopes The new digitally re-mastered edition vastly improves the clarity and definition of the original photographs significantly beyond the resolution limits of the photographic grains present in earlier atlas versions while preserving the layout and style of the original publications This has been achieved by merging computer visualized Earth based views of the lunar surface derived from NASA's Lunar Reconnaissance Orbiter data with scanned copies of Commander Hatfield's photographic plates using the author's own software The result is a *The Hatfield Lunar Atlas for 21st century amateur telescopes up to and beyond 12 inch aperture* [The Hatfield SCT Lunar Atlas](#) Jeremy Cook, 2006-02-28 SCT and Maksutov telescopes which of course includes the best selling models from Meade Celestron and other important manufacturers reverse the visual image left for right giving a mirror image This makes it extremely difficult to identify lunar features at the eyepiece of one of these instruments using conventional atlases which show the Moon upside down with south at the top This new SCT version of Hatfield's famous lunar atlas solves the problem Photographs and key maps in the Hatfield SCT Lunar Atlas are exactly as the Moon appears through the eyepiece of an SCT or Maksutov telescope Smaller IAU standard reference photographs are included on each page to make it simple to compare the mirrored SCT photographs and maps with those that appear in other atlases This edition uses the superb original photographs taken by Commander Henry Hatfield using his purpose built 12 inch reflector The key maps on which lunar features can be readily identified retain the style and clarity that made the original justly famous **Photographic Atlas of the Moon** S. M. Chong, Albert Lim, P. S. Ang, 2002-07-25 The Photographic Atlas of the Moon is a day by day photographic guide to observing the features of the Moon through a small telescope Compiled by three keen amateur astronomers each image was produced using a 40cm

telescope and high resolution low speed film Whole Moon images are provided for each day of the 29 day lunar cycle with labelled features and accompanying descriptive text Selected lunar features are shown at high magnification to highlight and clearly illustrate certain regions All lunar features are labelled using current IAU terminology A comprehensive set of appendices detail the phases of the Moon give a chronology of lunar selenography and index all lunar features named in the text This atlas is an invaluable reference guide for amateurs engaging in lunar observations with a small telescope

Rectified Lunar Atlas Ewen Adair Whitaker,1963 *The Hatfield Photographic Lunar Atlas* Jeremy Cook,2012-12-06

Long regarded as the finest photographic lunar atlas available The Hatfield Lunar Atlas is a model of accuracy and clarity This new version updates some of the maps names and technical data but uses Commander Henry Hatfield s original and unexcelled photographic plates taken with a purpose built 30 cm reflector The Atlas is divided into sixteen sections each of which is made up of five or more photographic plates together with a map Each map is based primarily of the facing plate Where detail is lacking on this primary plate particularly near the Moon s limb supplementary detail is provided by one or more of the other plates in a particular section **High Resolution Astrophotography** Jean Dragesco,1995-07-20 This

1995 guide is packed with practical tips on how to obtain the highest resolution in your astrophotography Consolidated

Lunar Atlas Gerald P. Kuiper,2007 The Consolidated Lunar Atlas is a collection of photographic images of the moon

Rectified Lunar Atlas Ewen Adair Whitaker,1963 **A Photographic Atlas of the Moon** William Henry Pickering,1903

Selections from the portfolios of the editor of the Lunar map and catalogue Lunar map,1873 **Atlas of the Moon** Antonín Růkl,1991 Includes a detailed map of the near side of the Moon *Mapping and Naming the Moon* Ewen A. Whitaker,2003-12-11 Almost 30 years after the Apollo missions Tranquillity Base Hadley Rille or Taurus Littrow are names still resonant with the enormous achievements represented by the lunar landings But how did these places get their names Who named Copernicus Crater Where did all those names on lunar maps come from and what stimulated their selection Ewen Whitaker traces the origins and evolution of the present day systems for naming lunar features such as craters mountains valleys and dark spots The connections between the prehistoric and historic names and today s gazetteer are clearly described Beautiful lunar maps spanning four centuries of progress wonderfully illustrate the unfolding of our ability to map the Moon Rare early photographs add to the sense of history Comprehensive appendices and the bibliography make this delightful book a work of lasting reference and scholarship Selene's Two Faces ,2018-08-13 If any scientific object has over the course of human history aroused the fascination of both scientists and artists worldwide it is beyond doubt the moon The moon is also by far the most interesting celestial body when it comes to reflecting on the dualistic nature of photography as applied to the study of the universe Against this background Selene s Two Faces sets out to look at the scientific purpose aesthetic expression and influence of early lunar drawings maps and photographs including spacecraft imaging In its approach Selene s Two Faces is intermedial intercultural and interdisciplinary It brings together not only

various media photography maps engravings lithographs globes texts and cultures from Europe America and Asia but also theoretical perspectives See inside the book **Gerard P. Kuiper and the Rise of Modern Planetary Science** Derek W. G. Sears, 2019-03-26 Astronomer Gerard P Kuiper ignored the traditional boundaries of his subject Using telescopes and the laboratory he made the solar system a familiar intriguing place It is not astronomy complained his colleagues and they were right Kuiper had created a new discipline we now call planetary science Kuiper was an acclaimed astronomer of binary stars and white dwarfs when he accidentally discovered that Titan the massive moon of Saturn had an atmosphere This turned our understanding of planetary atmospheres on its head and it set Kuiper on a path of staggering discoveries Pluto was not a planet planets around other stars were common some asteroids were primary while some were just fragments of bigger asteroids some moons were primary and some were captured asteroids or comets the atmosphere of Mars was carbon dioxide and there were two new moons in the sky one orbiting Uranus and one orbiting Neptune He produced a monumental photographic atlas of the Moon at a time when men were landing on our nearest neighbor and he played an important part in that effort He also created some of the world's major observatories in Hawaii and Chile However most remarkable was that the keys to his success sprang from his wartime activities which led him to new techniques This would change everything Sears shows a brilliant but at times unpopular man who attracted as much dislike as acclaim This in depth history includes some of the twentieth century's most intriguing scientists from Harold Urey to Carl Sagan who worked with and sometimes against the father of modern planetary science Now as NASA and other space agencies explore the solar system they take with them many of the ideas and concepts first described by Gerard P Kuiper [Discover the Moon](#) Jean Lacroux, Christian Legrand, 2003 Table of contents [Observing the Moon](#) Peter Wlasuk, 2000 Observing the Moon is a definitive work written as a reference book for anyone seriously interested in the Moon and its geology It is of course a perfect companion for practical observers Detailed and extensively illustrated chapters catalog all the interesting lunar features visible in modest telescopes They are preceded by a crash course in modern lunar geology based on the vast amount we have learned during and since the Apollo missions and are followed by chapters on photographic and CCD imaging drawing and lunar topography A CD ROM accompanies this book and contains an atlas of lunar images and much more The CD ROM requires a PC running Windows 3.1 or higher a minimum of 16MB Windows 3.1 64MB Windows 95 up of memory and a 2x or faster CD ROM player

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