

1. Record Nr.	UNINA9910779438203321
Autore	Chu Alan
Titolo	The Cambridge photographic moon atlas // Alan Chu, Wolfgang Paech, Mario Weigand ; translated by Storm Dunlop
Pubbl/distr/stampa	Cambridge : , : Cambridge University Press, , 2012
ISBN	1-139-88876-5 1-139-55588-X 1-139-09570-6 1-139-55463-8 1-139-54967-7 1-139-55217-1 1-283-87032-0 1-139-55092-6
Descrizione fisica	1 online resource (v, 191 pages) : digital, PDF file(s)
Disciplina	523.3022
Soggetti	Astronomy Astronomy - Observations Lunar craters Atlases. Atlases Remote-sensing images Moon Maps Moon Observations Moon Pictorial works
Lingua di pubblicazione	Inglese
Formato	Materiale cartografico a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references (p. 191) and index.
Nota di contenuto	Preface -- Advice on using this book -- Contents -- The Moon - an introduction -- Structure -- Surface -- The regolith and megaregolith -- Lunar rocks -- Origin and evolution -- Determining the ages of craters -- Stratigraphy and the superposition method -- The formation of craters -- Phase 1 - Contact/compression stage -- Phase 2 - Excavation stage -- Phase 3 - Modification stage --

Changes by erosion -- Lunar Transient Phenomena -- Nomenclature -- Further identification of surface structures -- Topography -- Mare/Maria -- Lacus, Palus and Sinus -- Dorsum and Dorsa -- Terrae -- Mountain ranges and single mountains -- Rupes -- Domes -- Megadomes and plateaus -- Rima, Rimae -- Vallis -- Craters -- The standard sequence of crater morphology -- Simple craters -- Complex craters -- Large complex craters -- Basins and multi-ring basins -- Different forms of craters -- FFC-craters -- Double-walled craters -- Elongated and elliptical craters -- Polygonal craters -- Craters with abnormal central peaks -- Dark-halo craters -- Catena -- Ghost craters -- Craters with ray systems -- Unusual lunar features -- DMD regions -- Swirls and magcons -- Observation of the Moon -- The selenographic coordinate system -- Height information -- The terminator and co-longitude -- Libration -- Visual observational techniques -- Telescopes -- Magnification and seeing -- Photographic observational techniques -- Mounts -- Telescope -- Imaging techniques -- Filters -- Image processing -- 1 Mare Smythii -- 2a Mare Crisium -- 2b Mare Crisium -- 3 Cleomedes -- 4 Endymion -- 5 Atlas/Hercules -- 6 Montes Taurus -- 7 Palus Somni -- 8a Mare Fecunditatis -- 8b Mare Fecunditatis -- 9 Langrenus/Petavius -- 10 Mare Australe -- 11 Vlacq -- 12 Vallis Rheita -- 13a Mare Nectaris -- 13b Mare Nectaris -- 14 Rupes Altai -- 15 Abulfeda -- 16 Theophilus -- 17 Sinus Asperitatis -- 18 Statio Tranquillitatis -- 19a Mare Tranquillitatis -- 19b Mare Tranquillitatis -- 20a Mare Serenitatis -- 20b Mare Serenitatis -- 21 Posidonius -- 22 Lacus Mortis -- 23 Aristoteles/ Eudoxus -- 24 Montes Caucasus -- 25 Autolycus/Aristillus -- 26 Cassini -- 27 Montes Alpes -- 28 Plato -- 29 Montes Teneriffe -- 30 Archimedes -- 31a Montes Apenninus -- 31b Montes Apenninus -- 32 Mare Vaporum -- 33 Rima Ariadaeus -- 34 Rima Hyginus -- 35 Sinus Medii -- 36 Hipparchus -- 37a Ptolemaeus -- 37b Ptolemaeus -- 38 Rupes Recta -- 39 Regiomontanus -- 41 South Pole -- 42 Clavius -- 43 Tycho -- 44 Schiller -- 45 Palus Epidemiarum -- 46 Pitatus -- 47 Mare Nubium -- 48 Fra Mauro -- 49 Mare Cognitum -- 50 Mare Insularum -- 51a Copernicus -- 51b Copernicus -- 52 Eratosthenes -- 53a Mare Imbrium -- 53b Mare Imbrium -- 54 Sinus Iridum -- 55 Gruithuisen -- 56 Mare Frigoris -- 57 North Pole -- 58 Aristarchus -- 59 Kepler -- 60 Seleucus -- 61 Reiner -- 62 Letronne/Hansteen -- 63 Gassendi -- 64 Mare Humororum -- 65 Schickard -- 66 Sirsalis -- 67 Grimaldi -- 68 Mare Orientale -- 69 Lunar Farside -- Glossary -- Index of lunar features -- Image credits -- Further reading and references.

---

## Sommario/riassunto

Using the latest methods in digital photography and image processing, The Cambridge Photographic Moon Atlas presents sixty-nine regions of the lunar landscape in large-format images with corresponding charts. Each two-page spread features a specific region in multiple lighting situations, allowing for direct comparisons of the same landscape at different lunar phases. Detailed descriptions of each region's location and topography accompany 388 high-resolution photographs, making the Moon's craters, mountains, valleys, rilles and other features easy to identify. Tracing the morphology of the Moon in unprecedented detail, this comprehensive and accessible visual atlas is an indispensable aid for amateur astronomers, astrophotographers and casual observers.

---