

# **The Geology Of Mars**

**Charles-James Gasnier** 

#### The Geology Of Mars:

The Geology of Mars Mary Chapman, 2007-05-17 Research into the geological processes operating on Mars relies on interpretation of images and other data returned by unmanned orbiters probes and landers Such interpretations are based on our knowledge of processes occurring on Earth Terrestrial analog studies therefore play an important role in understanding the geological features observed on Mars This 2007 book presents direct comparisons between locales on Earth and Mars and contains contributions from leading planetary geologists to demonstrate the parallels and differences between these two neighboring planets Mars is characterized by a wide range of geological phenomena that also occur on Earth including tectonic volcanic impact cratering eolian fluvial glacial and possibly lacustrine and marine processes The book provides terrestrial analogs for data sets from Mars Global Surveyor Mars Odyssey Mars Exploration Rovers and Mars Express and will therefore be a key reference for students and researchers of planetary science **The Geology of Mars** Thomas A. Mutch, Raymond E. Arvidson, James W. Head, Kenneth L. Jones, R. Stephen Saunders, 1986 The Geology of Mars Thomas A. The Geology of Mars Thomas A. Mutch, 1976 The Description for this book The Geology of Mars will be Mutch, 1976 forthcoming Mars Geological Enigmas Richard Soare, Susan Conway, Jean-Pierre Williams, Dorothy Oehler, 2021-05-23 Mars Geological Enigmas From the Late Noachian Epoch to the Present Day presents outstanding questions on the geology of Mars and divergent viewpoints based on varying interpretations and analyses The result is a robust and comprehensive discussion that provides opportunities for planetary scientists to develop their own opinions and ways forward Each theme opens with an introduction that includes background on the topic and lays out questions to be addressed Alternate perspectives are covered for each topic including methods observations analyses and in depth discussion of the conclusions Chapters within each theme reference each other to facilitate comparison and deeper understanding of divergent opinions Offers a transchronological view of the geological history of Mars addressing thematic guestions from a broad temporal perspective Discusses outstanding questions on Mars from diverging perspectives Includes key questions and answers as well as a look ahead to which puzzles remain to be solved Preliminary Mariner Report on the Geology of Mars John F. McCauley, 1972 Mariner 9 results indicate that Mars is geologically far more heterogeneous than previously suspected from earlier flyby missions the surface has been shaped by volcanic tectonic erosional and depositional activity The equatorial region between 30 N and 30 S latitude is depicted in four geologic sketch maps and seventeen geologic units are defined on the basis of their textural characteristics. The maps and the brief descriptions of geological units portrayed are followed by a series of more interpretive discussions dealing with topical problems and a summary geologic history Topics covered include cratering circular basins volcanism canyons chaotic terrain channels and eolian activity Introduction to the Geology of Mars Ronald Greeley, 1975 **The Geology of Mars** Thomas Richard McGetchin, 1959 The Geology of the Terrestrial Planets Michael H. Carr, 1984 The Atlas of Mars Kenneth S. Coles, Kenneth L. Tanaka, Philip R. Christensen, 2019-08-22

Planetary scientist and educator Ken Coles has teamed up with Ken Tanaka from the United States Geological Survey s Astrogeology team and Phil Christensen Principal Investigator of the Mars Odyssey orbiter's THEMIS science team to produce this all purpose reference atlas The Atlas of Mars Each of the thirty standard charts includes a full page color topographic map at 1 10 000 000 scale a THEMIS daytime infrared map at the same scale with features labeled a simplified geologic map of the corresponding area and a section describing prominent features of interest The Atlas is rounded out with extensive material on Mars global characteristics regional geography and geology a glossary of terms and an indexed gazetteer of up to date Martian feature names and nomenclature This is an essential guide for a broad readership of academics students amateur astronomers and space enthusiasts replacing the NASA atlas from the 1970s **Publications of the Geological Survey** Geological Survey (U.S.),1991 The Surface of Mars Michael H. Carr, 1984-07 The leader of the Viking Orbiter Imaging Team gathers and interprets data from American space probes to provide a comprehensive study of the geology of Mars and the characteristics of the planet's atmosphere and surface craters plains canyons and volca Martian Geomorphology Matthew R. Balme, 2011 The latest Mars missions are returning data of unprecedented fidelity in their representation of the martian surface New data include images with spatial resolution better than 30 cm per pixel stereo imaging derived terrain models with one meter postings high resolution imaging spectroscopy and RADAR data that reveal subsurface structure This book reveals how this information is being used to understand the evolution of martian landscapes and includes topics such as fluvial flooding permafrost and periglacial landforms debris flows deposition and erosion of sedimentary material and the origin of lineaments on Phobos the larger martian moon Contemporary remote sensing data of Mars on a par with those of Earth reveal landscapes strikingly similar to regions of our own planet so this book will be of interest to Earth scientists and planetary scientists alike An overview chapter summarising Mars climate geology and exploration is included for the benefit of those new to Mars The Brown Alumni Monthly, 1907

An English-French & French-English Glossary of the Geology of Mars Charles-James Gasnier, 2013 Bulletin of the Geological Society of America Geological Society of America, 1977 Vols 1 44 include Proceedings of the annual meeting 1889 1933 later published separately Glimpses of the Cosmos Lester Frank Ward, 1918 Journal of Geological Education, 1995 The Geological Magazine Or Monthly Journal of Geology, 1877 Geological Survey Professional Paper Geological Survey (U.S.), 1984

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