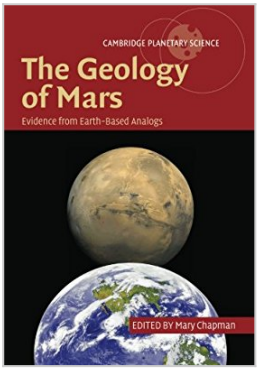

The Geology of Mars: Evidence from Earth-Based Analogs (Cambridge Planetary Science)

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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.

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Editorial Review

Review
"As is to be expected, this book is well illustrated with pictures of Mars and the corresponding Earth formations."
Publisher Review

"This book provides an excellent introduction to the field of comparative planetology and should be a welcome addition to the bookshelf of planetary scientists."
Meteoritics & Planetary Science (2007)
Gordon Osinski, University of Western Ontario

"This book will have wide appeal for planetary geologists...very well illustrated and contains a selection of color plates...this book should prove to be of special importance for some time to come.

About the Author
Mary Chapman is a research geologist with the Astrogeology Team at the United States Geological Survey in Flagstaff, Arizona. She is also the Director and Science Advisor for the NASA Regional Planetary Image Facility there. Her research interests center on volcanism and its interactions with ice and other fluids, and she has a keen interest in the development of future robotic and human exploration of the Solar System.

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