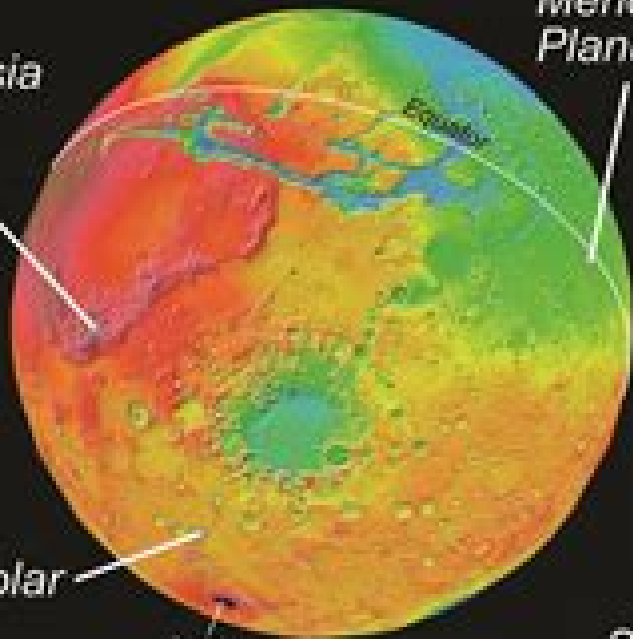


Geology of Proposed Landing Sites for the Human Exploration of Mars

Planetary Geology Research Projects (2016)

Professors C.M. Bailey and J.S. Levine

Site 53:
*Thaumasia
Valleys*



Site 6:
*South Polar
Region*

South
Pole

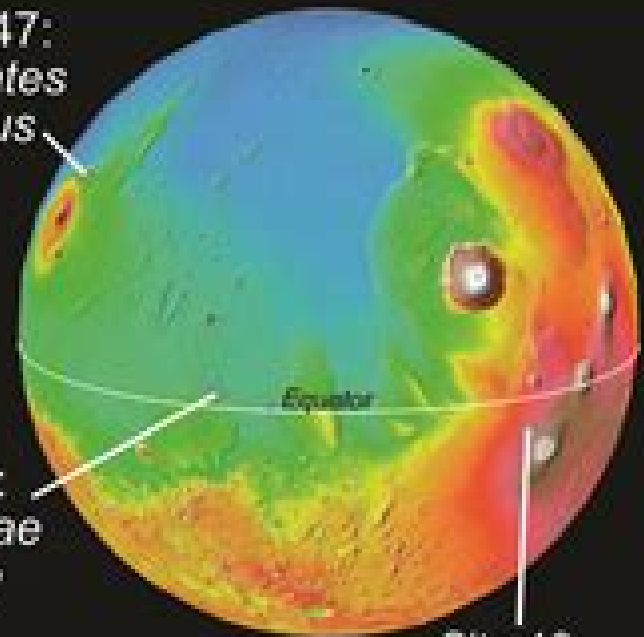
Site 3:
*Meridiani
Planum*

Site 24:
*Medusae
Fossae*

Site 37:
*Syrtis Major
Panium*

Site 49:
*Hesperian
Calderas*

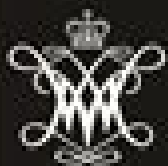
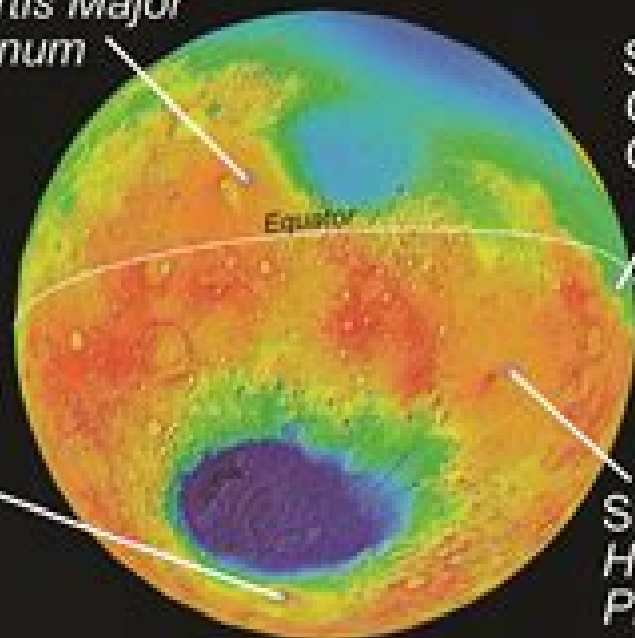
Site 47:
*Hecates
Tholus*



Site 19:
Arsia Mons

Site 7:
*Gale
Crater*

Site 50:
*Hesperian
Planum*



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Planetary Geology

**United States. National Aeronautics
and Space Administration. Scientific
and Technical Information Division**

Planetary Geology:

Planetary Geology John Guest, 1979 *Introduction to Planetary Science* Gunter Faure, Teresa M. Mensing, 2007-05-04

This textbook details basic principles of planetary science that help to unify the study of the solar system. It is organized in a hierarchical manner so that every chapter builds upon preceding ones. Starting with historical perspectives on space exploration and the development of the scientific method, the book leads the reader through the solar system. Coverage explains that the origin and subsequent evolution of planets and their satellites can be explained by applications of certain basic principles of physics, chemistry, and celestial mechanics, and that surface features of the solid bodies can be interpreted by principles of geology.

Planetary Geology Dominic Fortes, Claudio Vita-Finzi, 2025-02-17

Planetary geology today extends far beyond the study of rocks encompassing planetary origins, interiors, tectonics, atmospheres, oceans, and biology. It is not limited to the planets within our own solar system either. The past decade has witnessed groundbreaking missions to asteroids and comets as well as the discovery of thousands of exoplanets orbiting distant stars. This book offers a comprehensive exploration of the intricate geological processes shaping planets both within and beyond our solar system. It introduces fundamental concepts while framing the latest developments in planetary science. With over 1 000 references from more than 170 journals, this fully updated 3rd edition focuses on geological processes rather than a planet-by-planet approach, essential for understanding the common mechanisms linking planetary bodies across the universe. Explains complex concepts in an accessible manner, avoiding undue reliance on mathematical formulas and equations. Takes into account the increasing globalisation and commercialisation of space exploration and planetary science. A best-selling student text. *Planetary Geology* serves as an approachable yet in-depth introduction to a field that can seem overwhelming in its scope. Throughout, authors Dominic Fortes and Claudio Vita Finzi foster curiosity and critical thinking driven by the belief that a deeper understanding of planetary processes will ultimately help us better understand Earth's place in the universe.

Planetary Geology, 1998 **Planetary Geology** Angelo Pio Rossi, Stephan van Gasselt, 2017-11-28

This book provides an up-to-date interdisciplinary geoscience-focused overview of solid solar system bodies and their evolution based on the comparative description of processes acting on them. Planetary research today is a strongly multidisciplinary endeavor with efforts coming from engineering and natural sciences. Key focal areas of study are the solid surfaces found in our Solar System. Some have a direct interaction with the interplanetary medium, and others have dynamic atmospheres. In any of those cases, the geological records of those surfaces and sub-surfaces are key to understanding the Solar System as a whole, its evolution, and the planetary perspective of our own planet. This book has a modular structure and is divided into 4 sections comprising 15 chapters in total. Each section builds upon the previous one but is also self-standing. The sections are: Methods and tools; Processes and Sources; Integration and Geological Syntheses; Frontiers. The latter covers the far-reaching broad topics of exobiology, early life, extreme environments, and planetary resources, all areas where major advancements are

expected in the forthcoming decades and both key to human exploration of the Solar System The target readership includes advanced undergraduate students in geoscience related topics with no specific planetary science knowledge undergraduates in other natural science domains e g physics astronomy biology or chemistry graduates in engineering and space systems design who want to complement their knowledge in planetary science The authors backgrounds span a broad range of topics and disciplines rooted in Earth geoscience their expertise covers remote sensing and cartography field mapping impact cratering volcanology and tectonics sedimentology and stratigraphy exobiology and life in extreme environments planetary resources and mining Several generations of planetary scientists are cooperating to provide a modern view on a discipline developed from Earth during and through Space exploration

Planetary Geology Claudio Vita-Finzi, Andrew Dominic Fortes, 2013-06-20 In a dynamic treatment of planets of the Solar System from a unified perspective Planetary Geology deals with the origin of planetary bodies the forces that fashion their surfaces the rise and fall of icecaps and oceans and the role of life in planetary history

Introduction to Planetary Geomorphology Ronald Greeley, 2013-02-21 Nearly all major planets and moons in our Solar System have been visited by spacecraft and the data they have returned has revealed the incredible diversity of planetary surfaces Featuring a wealth of images this textbook explores the geological evolution of the planets and moons Introductory chapters discuss how information gathered from spacecraft is used to unravel the geological complexities of our Solar System Subsequent chapters focus on current understandings of planetary systems The textbook shows how planetary images and remote sensing data are analyzed through the application of fundamental geological principles It draws on results from spacecraft sent throughout the Solar System by NASA and other space agencies Aimed at undergraduate students in planetary geology geoscience astronomy and solar system science it highlights the differences and similarities of the surfaces at a level that can be readily understood by non specialists

Planetary Geology United States. National Aeronautics and Space Administration. Scientific and Technical Information Division, 1988

Reports of Planetary Geology and Geophysics Program - 1988 ,1989 *Reports of Planetary Geology and Geophysics Program--1990* Planetary Geology and Geophysics Program (U.S.), 1990

Planetary Geology Nicholas M. Short, 1975 *Reports of Planetary Geology and Geophysics Program--1987* Planetary Geology and Geophysics Program (U.S.), 1988

Literature 1980, Part 1 Siegfried Böhme, Ute Esser, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-11 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts

will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user I 1980 some older Volume 27 contains literature published in 1980 and received before August literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English *Literature 1978, Part 1* S. Böhme, U. Esser, W. Fricke, I. Heinrich, D. Krahn, L. D. Schmadel, G. Zech, 2013-11-11 *Scientific and Technical Aerospace Reports*, 1992 **Planetary geoscience** McSween, Jr (Harry Y.), Jeffrey E. Moersch, Devon Burr, William M. Dunne, Joshua P. Emery, Linda C. Kah, Molly C. McCanta, 2019 For many years planetary science has been taught as part of the astronomy curriculum from a very physics based perspective and from the framework of a tour of the Solar System body by body Over the past decades however spacecraft exploration and related laboratory research on extraterrestrial materials have given us a new understanding of planets and how they are shaped by geological processes Based on a course taught at the University of Tennessee Knoxville this is the first textbook to focus on geologic processes adopting a comparative approach that demonstrates the similarities and differences between planets and the reasons for these Profusely illustrated and with a wealth of pedagogical features this book provides an ideal capstone course for geoscience majors bringing together aspects of mineralogy petrology geochemistry volcanology sedimentology geomorphology tectonics geophysics and remote sensing **Astronomy and Astrophysics Abstracts** S. Böhme, W. Fricke, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-12-14 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 31 contains literature published in 1982 and received before July 15 1982 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English **A Bibliography of Planetary Geology and Geophysics Principal Investigators and Their Associates, 1983 - 1984** Nanci E. Witbeck, 1984 **Monthly Catalogue, United States Public Documents**, 1989-05 Monthly Catalog of United States Government Publications United States. Superintendent of Documents, 1995

This book delves into Planetary Geology. Planetary Geology is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Planetary Geology, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Planetary Geology
- Chapter 2: Essential Elements of Planetary Geology
- Chapter 3: Planetary Geology in Everyday Life
- Chapter 4: Planetary Geology in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Planetary Geology. The first chapter will explore what Planetary Geology is, why Planetary Geology is vital, and how to effectively learn about Planetary Geology.
3. In chapter 2, the author will delve into the foundational concepts of Planetary Geology. The second chapter will elucidate the essential principles that need to be understood to grasp Planetary Geology in its entirety.
4. In chapter 3, this book will examine the practical applications of Planetary Geology in daily life. This chapter will showcase real-world examples of how Planetary Geology can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Planetary Geology in specific contexts. This chapter will explore how Planetary Geology is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Planetary Geology. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Planetary Geology.

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Planetary Geology Introduction

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