



# Elevation Differences On Mars

**Carl Sagan, James B. Pollack**



## **Elevation Differences On Mars:**

Elevation Differences on Mars Carl Sagan, James B. Pollack, 1966 Contrary to the conclusions previously drawn the polar cap recession data suggest the dark areas are highlands because of the greater wind velocities and frost vaporization rates anticipated for highlands From the quasi specular component of the radar power reflectivity and from the radar Doppler spectra both functions of Martian longitude the Martian dark areas are found to tend to have systematically higher elevations than the adjacent bright areas Mean slopes of a few degrees or less are deduced and elevation differences up to 17 km are inferred Planetary Atmospheres C. Sagan, Tobias Owen, H.J. Smith, 2012-12-06 Proceedings of the IAU Symposium No 40 held in Marfa Texas U S A October 26 31 1969 Bibliography of Lunar and Planetary Research. 1960-1964 ,1965

**Bibliography of Lunar and Planetary Research** John W. Salisbury, 1967 A bibliography of lunar and planetary research articles published during 1966 is presented with both subject and author listings The major subject categories are astrobiology comets meteorite craters and cratering effects meteors and meteorites the moon origin of the solar system the planets and tektites Each article is abstracted **Bibliography of Lunar and Planetary Research** Air Force Cambridge Research Laboratories (U.S.). Space Physics Laboratory, 1967 Bulletin of the Atomic Scientists ,1974-03 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

**Geophysical Abstracts** ,1971 *Advances in Space Science and Technology* Frederick I. Ordway, 2014-12-01 *Advances in Space Science and Technology* Volume 10 provides information pertinent to the developments in space science and technology This book discusses the logistic and shelter construction environment and transportation aspects of Antarctic and lunar exploration Organized into five chapters this volume begins with an overview of the comparison of the lunar exploration program with the exploration of Antarctica This text then explores the surface geology of the planet Mars wherein the study emphasizes that water erosion transport does not exist that an oxidizing atmosphere is absent and that wind erosion must be minimal Other chapters consider the problems associated with navigation aboard spaceships traveling between the stars This book discusses as well the inadequacy of space communication systems as a means of providing an instantaneous and uninterrupted service The final chapter deals with predictions about the utility of space flight This book is a valuable resource for readers who are interested in space science and technology **Special Report** Smithsonian Astrophysical Observatory, Lunar and Planetary Surface Conditions Nicholas A. Weil, 2013-10-22 *Lunar and Planetary Surface Conditions* considers the inferential knowledge concerning the surfaces of the Moon and the planetary companions in the Solar System The information presented in this four chapter book is based on remote observations and measurements from the vantage point of Earth and on the results obtained from accelerated space program of the United States and U S S R Chapter 1 presents the prevalent hypotheses on the origin and age of the Solar System followed by a brief description of the

methods and feasibility of information acquisition concerning lunar and planetary data either from fixed terrestrial observatories or from instrumented or manned space probes Chapter 2 reviews all conditions pertaining to the surface aspects of the closest celestial neighbor the Moon Sections in this chapter deal sequentially with the atmosphere temperature conditions subsurface stratification field intensities gravitational electric and magnetic and lastly with the biological conditions existing on the lunar surface This chapter also provides information on the density of the lunar atmosphere under quiescent or high flux transient conditions on the topography of the lunar surface and on the probable proportion of crater covered areas in the highlands and on the Maria Chapter 3 is a detailed treatment of the surface conditions on the terrestrial planets comprising Mercury Venus and Mars while Chapter 4 deals with similar information relating to the so called Jovian planets Jupiter Saturn Uranus Neptune and Pluto This book will prove useful to lunar and planetary mission planners both those concerned with the purely scientific aspects of surfaces and immediate subsurfaces and those involved in the development of roving exploration vehicles

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