

The Quarantine and Certification of Martian Samples



Space Studies Board
National Research Council

Quarantine And Certification Of Martian Samples

**National Research Council, Division on
Engineering and Physical
Sciences, Space Studies Board**



Quarantine And Certification Of Martian Samples:

The Quarantine and Certification of Martian Samples National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Planetary and Lunar Exploration, 2002-05-16 One of the highest priority activities in the planetary sciences identified in published reports of the Space Studies Board's Committee on Planetary and Lunar Exploration COMPLEX and in reports of other advisory groups is the collection and return of extraterrestrial samples to Earth for study in terrestrial laboratories In response to recommendations made in such studies NASA has initiated a vigorous program that will within the next decade collect samples from a variety of solar system environments In particular the Mars Exploration Program is expected to launch spacecraft that are designed to collect samples of martian soil rocks and atmosphere and return them to Earth perhaps as early as 2015 International treaty obligations mandate that NASA conduct such a program in a manner that avoids the cross contamination of both Earth and Mars The Space Studies Board's 1997 report Mars Sample Return Issues and Recommendations examined many of the planetary protection issues concerning the back contamination of Earth and concluded that although the probability that martian samples will contain dangerous biota is small it is not zero 1 Steps must be taken to protect Earth against the remote possibility of contamination by life forms that may have evolved on Mars Similarly the samples collected at great expense must be protected against contamination by terrestrial biota and other matter Almost certainly meeting these requirements will entail opening the sample return container in an appropriate facility on Earth presumably a BSL 4 laboratory where testing biosafety certification and quarantine of the samples will be carried out before aliquots are released to the scientific community for study in existing laboratory facilities The nature of the required quarantine facility and the decisions required for disposition of samples once they are in it were regarded as issues of sufficient importance and complexity to warrant a study by the Committee on Planetary and Lunar Exploration COMPLEX in isolation from other topics Previous studies have been much broader including also consideration of the mission that collects samples on Mars and brings them to Earth atmospheric entry sample recovery and transport to the quarantine facility The charge to COMPLEX stated that the central question to be addressed in this study is the following What are the criteria that must be satisfied before martian samples can be released from a quarantine facility

Assessment of Planetary Protection Requirements for Mars Sample Return Missions National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Review of Planetary Protection Requirements for Mars Sample Return Missions, 2009-06-06 NASA maintains a planetary protection policy to avoid the forward biological contamination of other worlds by terrestrial organisms and back biological contamination of Earth from the return of extraterrestrial materials by spaceflight missions Forward contamination issues related to Mars missions were addressed in a 2006 National Research Council NRC book Preventing the Forward Contamination of Mars However it has been more than 10 years since back contamination issues were last examined Driven by a renewed interest in Mars

sample return missions this book reviews updates and replaces the planetary protection conclusions and recommendations contained in the NRC's 1997 report *Mars Sample Return Issues and Recommendations*. The specific issues addressed in this book include the following: The potential for living entities to be included in samples returned from Mars; Scientific investigations that should be conducted to reduce uncertainty in the above assessment; The potential for large scale effects on Earth's environment by any returned entity released to the environment; Criteria for intentional sample release taking note of current and anticipated regulatory frameworks; and The status of technological measures that could be taken on a mission to prevent the inadvertent release of a returned sample into Earth's biosphere.

Planetary Protection Classification of Sample Return Missions from the Martian Moons European Science Foundation, European Space Sciences Committee, National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Planetary Protection Requirements for Sample Return Missions from Martian Moons, 2019-07-20

An international consensus policy to prevent the biological cross contamination of planetary bodies exists and is maintained by the Committee on Space Research COSPAR of the International Council for Science which is consultative to the United Nations Committee on the Peaceful Uses of Outer Space. Currently COSPAR's planetary protection policy does not specify the status of sample return missions from Phobos or Deimos the moons of Mars. Although the moons themselves are not considered potential habitats for life or of intrinsic relevance to prebiotic chemical evolution recent studies indicate that a significant amount of material recently ejected from Mars could be present on the surface of Phobos and to a lesser extent Deimos. This report reviews recent theoretical experimental and modeling research on the environments and physical conditions encountered by Mars ejecta during certain processes. It recommends whether missions returning samples from Phobos and or Deimos should be classified as restricted or unrestricted Earth return in the framework of the planetary protection policy maintained by COSPAR. This report also considers the specific ways the classification of sample return from Deimos is a different case than sample return from Phobos.

Assessment of Mars Science and Mission Priorities National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Planetary and Lunar Exploration, 2003-07-08

Within the Office of Space Science of the National Aeronautics and Space Administration NASA special importance is attached to exploration of the planet Mars because it is the most like Earth of the planets in the solar system and the place where the first detection of extraterrestrial life seems most likely to be made. The failures in 1999 of two NASA missions Mars Climate Orbiter and Mars Polar Lander caused the space agency's program of Mars exploration to be systematically rethought both technologically and scientifically. A new Mars Exploration Program plan summarized in Appendix A was announced in October 2000. The Committee on Planetary and Lunar Exploration COMPLEX a standing committee of the Space Studies Board of the National Research Council was asked to examine the scientific content of this new program. The goals of this report are the following: Review the state of

knowledge of the planet Mars with special emphasis on findings of the most recent Mars missions and related research activities Review the most important Mars research opportunities in the immediate future Review scientific priorities for the exploration of Mars identified by COMPLEX and other scientific advisory groups and their motivation and consider the degree to which recent discoveries suggest a reordering of priorities and Assess the congruence between NASA's evolving Mars Exploration Program plan and these recommended priorities and suggest any adjustments that might be warranted

Review and Assessment of Planetary Protection Policy Development Processes National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on the Review of Planetary Protection Policy Development Processes, 2018-10-17 Protecting Earth's environment and other solar system bodies from harmful contamination has been an important principle throughout the history of space exploration For decades the scientific political and economic conditions of space exploration converged in ways that contributed to effective development and implementation of planetary protection policies at national and international levels However the future of space exploration faces serious challenges to the development and implementation of planetary protection policy The most disruptive changes are associated with 1 sample return from and human missions to Mars and 2 missions to those bodies in the outer solar system possessing water oceans beneath their icy surfaces Review and Assessment of Planetary Protection Policy Development Processes addresses the implications of changes in the complexion of solar system exploration as they apply to the process of developing planetary protection policy Specifically this report examines the history of planetary protection policy assesses the current policy development process and recommends actions to improve the policy development process in the future Space Studies Board Annual Report 2017 National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, 2018-12-19 The original charter of the Space Science Board was established in June 1958 three months before the National Aeronautics and Space Administration NASA opened its doors The Space Science Board and its successor the Space Studies Board SSB have provided expert external and independent scientific and programmatic advice to NASA on a continuous basis from NASA's inception until the present The SSB has also provided such advice to other executive branch agencies including the National Oceanic and Atmospheric Administration NOAA the National Science Foundation NSF the U S Geological Survey USGS the Department of Defense as well as to Congress Space Studies Board Annual Report 2017 covers a message from the chair of the SSB David N Spergel This report also explains the origins of the Space Science Board how the Space Studies Board functions today the SSB's collaboration with other National Academies of Sciences Engineering and Medicine units assures the quality of the SSB reports acknowledges the audience and sponsors and expresses the necessity to enhance the outreach and improve dissemination of SSB reports This report will be relevant to a full range of government audiences in civilian space research including NASA NSF NOAA USGS and the Department of Energy as well members of the SSB policy makers

and researchers Mars Sample Handling Protocol Workshop Series ,2001 Assessment of the Report of NASA's Planetary Protection Independent Review Board National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee to Review the Report of the NASA Planetary Protection Independent Review Board, 2020-10-19 The goal of planetary protection is to control to the degree possible the biological cross contamination of planetary bodies Guidelines developed by the Committee on Space Research COSPAR are used by all spacefaring nations to guide their preparations for encounters with solar system bodies NASA's Science Mission Directorate has convened the Planetary Protection Independent Review Board PPIRB to consider updating the COSPAR guidelines given the growing interest from commercial and private groups in exploration and utilization of Mars and other bodies in space At the request of NASA this publication reviews the findings of the PPIRB and comments on their consistency with the recommendations of the recent National Academies report Review and Assessment of the Planetary Protection Policy Development Processes Review of Goals and Plans for NASA's Space and Earth Sciences National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Panel on Review of NASA Science Strategy Roadmaps, 2006-05-05 Both the President's commission on how to implement the President's space exploration initiative and Congress asked the NRC undertake an assessment and review of the science proposed to be carried out under the initiative An initial response to that request was the NRC February 2005 report Science in NASA's Vision for Space Exploration While that report's preparation NASA created capabilities and strategy roadmapping efforts which became the object of the next phase of the NRC review The new NASA administrator modified that NASA activity resulting in changes in the NRC review effort This report provides a review of six science strategy roadmaps robotic and human exploration of Mars solar system exploration universe exploration search for earth like planets earth science and applications from space and sun earth system connection In addition an assessment of cross cutting and integration issues is presented **Space Studies Board Annual Report 2010** National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, 2011-01-01 The Space Studies Board SSB was established in 1958 to serve as the focus of the interests and responsibilities in space research for the National Academies The SSB provides an independent authoritative forum for information and advice on all aspects of space science and applications and it serves as the focal point within the National Academies for activities on space research It oversees advisory studies and program assessments facilitates international research coordination and promotes communications on space science and science policy between the research community the federal government and the interested public The SSB also serves as the U S National Committee for the International Council for Science Committee on Space Research COSPAR This volume reviews the organization activities and reports of the SSB for the year 2010

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