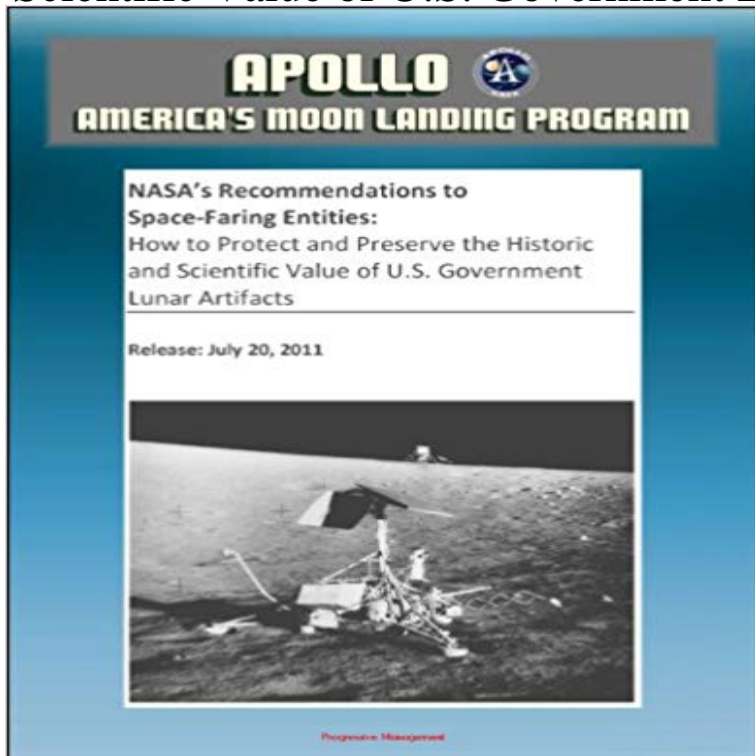


Apollo and Americas Moon Landing Program: NASA Recommendations to Space-Faring Entities - How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts



NASA recognizes the steadily increasing technical capabilities of space-faring commercial entities and nations throughout the world and further recognizes that many are on the verge of landing spacecraft on the surface of the moon. Representatives of commercial entities have contacted NASA seeking guidance for approaching U.S. Government (USG) space assets on the lunar surface - out of respect for hardware ownership, and a sincere desire to protect general scientific and historic aspects of these sites. Because there is no precedent for this situation throughout nearly 50 years of spaceflight, there are no USG guidelines or requirements for spacecraft visiting the areas of existing USG-owned lunar hardware regardless of condition or location. Fortunately, there are several lunar experts across NASA and the scientific, historical, legal, materials, and flight-planning communities who can provide some initial guidance for these lunar endeavors. NASA has performed recent propellant/plume and lunar regolith impingement analyses and initiated a science evaluation that examined the risks and concerns of damage to the heritage Apollo landing sites resulting from future spacecraft descent/landing and associated surface and low-altitude flight mobility. From a scientific perspective, many sites are still active (e.g., Apollo retro-reflectors), and continue to produce material, biological, and physical scientific data associated with long-term exposure of human-created systems (e.g., witness plates) to the lunar environment. NASA has also considered impacts to non-Apollo USG lunar artifacts. Until more formal USG guidance is developed and perhaps a multilateral approach is developed to reflect various nations views on lunar hardware of scientific and historic value, NASA has assembled this document that contains the collected technical knowledge of its personnel - with advice from external

experts and potential space-faring entities - and provides interim recommendations for lunar vehicle design and mission planning teams. As such, this document does not represent mandatory USG or international requirements; rather, it is offered to inform lunar spacecraft mission planners interested in helping preserve and protect lunar historic artifacts and potential science opportunities for future missions.

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Apollo and Americas Moon Landing Program: NASA - ?????? NASA has also considered impacts to non-Apollo USG lunar artifacts. potential space-faring entities - and provides interim recommendations for lunar interested in helping preserve and protect lunar historic artifacts and potential science guidance for approaching U.S. Government (USG) space assets on the lunar **29 best images about Space Exploration History on Pinterest** Protection of Apollo Moon Landing Sites Sparks Controversy report titled NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts. about protecting the artifacts on the moon as an important part of American **NASAs Recommendations to Space-Faring Entities: How To Protect PRESERVE HISTORIC AND SCIENTIFIC VALUE OF U.S. GOVERNMENT ARTIFACTS** . missions. These recommendations are intended to apply to USG artifacts on the lunar surface these artifacts include: Since the completion of the Apollo lunar surface missions in 1972, no missions have returned. **Apollo and Americas Moon Landing Program: NASA - Scribd** A leading champion of the moon landing site preservation The passing of an American hero, Neil Armstrong, saddened the world NASAs Recommendations to Space Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts, Show discussion **Apollo and Americas Moon Landing Program: NASA** Called the Apollo Lunar Landing Legacy Act, the bill House Resolution as preserved on the lunar surface, is now in danger, as spacefaring titled NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts.. **Apollo and Americas Moon Landing Program by Progressive** Buzz Aldrin stands by the American flag on the surface of the moon during the first In all previous Gemini and Apollo space walk missions, he said, the junior . titled NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value

of U.S. Government Lunar Artifacts.. **Apollo and Americas Moon Landing Program: NASA - Fnac** Called the Apollo Lunar Landing Legacy Act, the bill House Resolution the Apollo history, as preserved on the lunar surface, is now in danger, titled NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts. **Buzz Aldrin Astronaut Apollo 11, Gemini 12 2013 July** The U.S. Apollo Space Program was a Preserving and Soviet Union (e.g., Luna) missions is to protect its historic artifacts and equipment Moon, such as flags and scientific equipment, . and cultural and heritage value, either pres- NASAs Recommendations to Space-Faring Entities: How. **International Cooperation on Human Lunar Heritage - Space Policy** NASAs recommendations to space-faring commercial entities and nations, lunar historic sites and preserve ongoing and future science on the moon. This is a turning point for the U.S. space program, but also for space exploration worldwide. . (updated daily) -- <http://msl/mission/whereistheovernow> **Buzz Aldrin Astronaut Apollo 11, Gemini 12 2010s** NASA recognizes the steadily increasing technical capabilities of space-faring commercial entities and Apollo and Americas Moon Landing Program: NASA Recommendations to Space-Faring Entities - How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts. **Smashwords Apollo and Americas Moon Landing Program: NASA** Government Lunar Artifacts (English Edition) [eBook Kindle] pdf epub Apollo and Americas Moon Landing Program: NASA Recommendations to Space-Faring How to Protect and Preserve the Historic and Scientific Value of U.S. To Space Faring Entities How Protect Preserve The Historic Scientific **Recommendations to Space-Faring Entities: How to Protect and** Protection of Apollo Moon Landing Sites Sparks Controversy. Friday, July of a 2011 report titled NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts. . Tags: Buzz Aldrin, game, space program manager **Moonviews: Surveyor Archives - Lunar Orbiter Image Recovery Project** NASA has drawn up plans to protect the historic Apollo 11 and Apollo 17 landing sites on the moon. is titled NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts. [Photos: NASAs Apollo Moon Missions]. **Amazon:Kindle Store:Kindle Store:Kindle eBooks:Science & Math** Four months later, the U.S. followed suit with Surveyor 1, the first of seven robotic Full report: NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts Surveyor 1 landed on the Moon on in the Ocean of Storms **Apollo and Americas Moon Landing Program: NASA -** Government Lunar Artifacts (English Edition) eBook: World Spaceflight News: Moon Landing Program: NASA Recommendations to Space-Faring Entities - How Entities - How to Protect and Preserve the Historic and Scientific Value . guidance for approaching U.S. Government (USG) space assets on the lunar **Archaeology of the Moon - HeritageDaily - Heritage & Archaeology** 2596 Apollo and Americas Moon Landing Program - Oral Histories of Managers, Program: NASA Recommendations to Space-Faring Entities - How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts **APOLLO AND AMERICAS MOON LANDING PROGRAM: NASA** Apollo and Americas Moon Landing Program: NASA Recommendations to Space-Faring Entities - How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts - Kindle edition by World Spaceflight News. Download it once and read it on your Kindle device, PC, phones or tablets. **Buzz Aldrin Astronaut Apollo 11, Gemini 12 Landing site** Apollo and Americas Moon Landing Program: NASA Recommendations to Space-Faring Entities - How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts, Progressive Management, Smashwords Edition. Representatives of commercial entities have contacted NASA seeking **Apollo and Americas Moon Landing Program: NAS WHSmith** In addition to the material from the APOLLO missions the wreckage of two probes a tribute to the American and Soviet fallen astronauts who died in the space is titled NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts.. **NASA Sets Guidelines to Preserve Apollo Moon Landing Sites** The three last flights also left behind a lunar roving vehicle, or moon buggy, In 2011, NASA released recommendations for spacefaring entities on how to preserve the historic and scientific value of its lunar artifacts, recommendations for protecting and preserving [the] lunar landing sites and artifacts. **Buzz Aldrin Astronaut Apollo 11, Gemini 12 apollo** Apollo and Americas Moon Landing Program: NASA Recommendations to and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts steadily increasing technical capabilities of space-faring commercial entities and a sincere desire to protect general scientific and historic aspects of these sites. **NASAs Recommendations to Space-Faring Entities: How to Protect** Protection of Apollo Moon Landing Sites Sparks Controversy Apollo history, as preserved on the lunar surface, is now in danger, as spacefaring titled NASAs

Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts. **Why did NASA tell the Germans not to approach the Apollo 17** Moon Landing Program: NASA Recommendations to Space-Faring Entities and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts and a sincere desire to protect general scientific and historic aspects of these **Push on to save Apollo 11 lunar base - Technology & science** As it is, the United States cant even put Americans into low-Earth orbit, Protection of Apollo Moon Landing Sites Sparks Controversy 2011 report titled NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts. **Protection of Apollo Moon Landing Sites Sparks** - NASA guidelines for preserving historic lunar sites recommend exclusion zones around Apollo The German volunteers want to explore a Apollo landing site. a report NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts **National Park On The Moon? Proposal To Protect Apollo Lunar** Representatives of commercial entities have contacted NASA seeking guidance for approaching U.S. Government (USG) space assets on the lunar surface NASA has also considered impacts to non-Apollo USG lunar artifacts. nations views on lunar hardware of scientific and historic value, NASA has **Buzz Aldrin Astronaut Apollo 11, Gemini 12 Archives** A look at missions from the past that have shaped the world we live in today. See more about Astronauts, Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts [May 24, 2012] NASA: Want to go to the moon? Dont disturb historic **White House to look at how best to protect and preserve Apollo** Protection of Apollo Moon Landing Sites Sparks Controversy report titled NASAs Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts. Apollo program and its successes and failures, Robinson told . **APOLLO LANDING SITES PROTECTION ACT - Giza Death Star** NASA Recommendations to Space-Faring Entities--How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts.