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Lunar Meteoroid

Impacts And How

While the era of major impacts is over, lunar meteorites still cause flashes and puffs of gas, vaporized rock, and dust that we can observe. The Moon itself has a fascinating history. It is now thought to have been formed after a Mars-sized object collided with Earth and stripped off a portion of its mass.

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Lunar Meteoroid Impacts and How to Observe Them ...

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off a portion of its
mass.

Lunar Meteoroid Impacts and How to Observe Them | Brian ...

Unlike the Earth, which has an atmosphere that breaks up most meteoroids before they reach the ground, the Moon has little-to-no atmosphere. So there is nothing to prevent meteoroids from impacting the lunar

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surface. Upon impact,

meteoroids striking the

Moon create an impact

flash observable by

telescopes on Earth.

Click for a list of impact

flash candidates

observed by NASA.

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NASA

While the era of major

impacts is over, lunar

meteorites still cause

flashes and puffs of

gas, vaporized rock,

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observe. The Moon itself has a fascinating history. It is now thought to have been formed after a Mars-sized object collided with Earth and stripped off a portion of its mass.

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The Moon and Meteoroids.-

Widespread Evidence.-

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Lunar Impact

Features.- Remarkable

Collisions.- Possible

Impact Phenomena

(PIPs).- Beyond the

Moon.- An Observer's

Guide to Lunar Meteor

Impacts, Past and

Present.- Guide to

Observing Impact

Features on the Moon.-

Impacts Today.- Lunar

Impact Observation

Programs.-

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Brian ...

Any rock on the lunar surface that is accelerated by the impact of a meteoroid to lunar escape velocity or greater will leave the Moon's gravitational influence. Most rocks ejected from the Moon become captured by the gravitational field of either the Earth or the Sun and go into orbit around those bodies.

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Lunar Meteorites | Some Meteorite Information | Washington ...

Lunar Impacts Mission statement: Use Earth-based observations of the dark portion of the moon to establish the rates and sizes of large meteoroids (greater than 10s of grams or a few ounces in mass) striking the lunar surface.

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When the meteoroid is large, the impact craters the surface, launching crater ejecta far from the impact potentially threatening

astronauts on the lunar surface. In the early

1960's, the ejecta

impact flux was

thought no more than

the sporadic meteoroid

flux but with speeds

one to two orders of

magnitude smaller.

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**An Astronaut's Risk
of Experiencing a
Critical Impact from**

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Characterize the lunar
exospheric dust
environment and
measure any spatial
and temporal
variability and impacts
on the lunar
exosphere. Meteoroid
impacts are thought to
be among the major
sources for the lunar
exosphere and lofted

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the Association of

Lunar and Planetary

Observers to facilitate

a lunar meteoroid

impact observation

campaign to support

mission science.

Upcoming Events | Lunar Meteoroid Impacts and LADEE

...

The Lunar Meteoroid

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Impacts Observer, or
LUMIO, is a space
mission concept
awarded winner of
ESA's SysNova

Competition "Lunar
CubeSats for
Exploration", and as
such it is now under
consideration for future
implementation by the
Agency.

Orbit Design for LUMIO: the Lunar Meteoroid Impacts

...

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Meteoroid impacts regularly liberate puffs of water vapor from the moon, suggesting that minuscule amounts of water may lurk just under the entire lunar surface, a new study finds. When the Apollo...

The Moon Loses Water When Meteoroids Smack the Lunar ...

Meteoroid impacts are thought to be among

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the major sources for
the lunar exosphere
and lofted dust, and
the LADEE mission is
working with NASA's

Meteoroid Environment
Office and the

Association of Lunar
and Planetary

Observers to facilitate
a lunar meteoroid
impact observation
campaign to support
mission science.

**Lunar Meteoroid
Impacts and LADEE**

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Mission Workshop |

Solar ...

Micrometeoroids are very small pieces of rock or metal broken off from larger chunks of rock and debris often dating back to the birth of the Solar System.

Micrometeoroids are extremely common in space. Tiny particles are a major contributor to space weathering processes. When they hit the surface of the

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Moon, or any airless body (Mercury, the asteroids, etc.), the resulting melting and vaporization causes darkening and other optical changes in the regolith.

Micrometeoroid - Wikipedia

The Lunar Meteoroid Impacts Observer, or LUMIO, is a space mission concept awarded winner of ESA's SysNova

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Competition “Lunar
CubeSats for
Exploration,” and as
such it is now under
consideration for future
implementation by the
Agency.

Orbit Design for LUMIO: The Lunar Meteoroid Impacts Observer

Lunar rays like these
form when rocks and
boulders excavated by
an impact fall back to
the surface and dig

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**Astro Bob: See the
twin Messier craters
and a curious ...**

The Lunar

Reconnaissance

Orbiter Camera

(LROC), which normally

produces beautifully

clear images of the

lunar surface,

produced an image

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that was wild and jittery. From the sudden and jagged pattern apparent in the image, the LROC team determined that the camera must have been hit by a tiny meteoroid.

**ASU's Lunar
Reconnaissance
Orbiter Camera
survives ...**

Even a small meteoroid can create a bright flash when it hits the

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lunar surface. Lunar

impacts are common,
but what makes this
one so fun is the sheer
number of telescopes
turned toward the
moon...

**See a rock smack
the moon during the
super blood wolf ...**

Something hit the
Moon during the lunar
eclipse on Sunday
night. Reports are
saying now it was
possibly the size of a

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Additional To

football but the
calculations are still
being done. Either way,
this is the ...

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4K LUNAR METEOROID IMPACT!

From the list in the first section, these are the closest-known asteroids per year that approach Earth within one lunar distance. More than one asteroid per year may be listed if its geocentric distance is

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within a tenth of the

lunar distance, or 0.10 LD. For comparison, since a satellite in a geostationary orbit has an altitude of about 36,000 km (22,000 mi), then its geocentric distance is 0 ...

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