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Lunar Reconnaissance Orbiter

NASA's First Step Back to the Moon

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LRO Early Results Press Conference Visuals

09.17.09

GREENBELT, Md. -- NASA showcased new images from the Lunar Reconnaissance Orbiter's seven instruments and provided updates about the topography of the moon's south pole during a news conference on September 17. NASA also provided an update about the spacecraft's status and mission plans. The briefing took place at NASA's Goddard Space Flight Center in Greenbelt, Md.

[NASA press release](#)

Briefing Speakers

- › [Craig Tooley](#), LRO project manager, NASA's Goddard Space Flight Center
- › Michael Wargo, chief lunar scientist, Exploration Systems Mission Directorate, NASA Headquarters
- › [Richard Vondrak](#), LRO project scientist, NASA's Goddard Space Flight Center
- › David Smith, [Lunar Orbiter Laser Altimeter](#) principal investigator, NASA's Goddard Space Flight Center

Images and Multimedia in Support of the News Conference

Presenter: Craig Tooley, LRO project manager, NASA's Goddard Space Flight Center

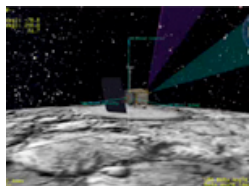


Figure 1: This 1.7-minute video shows the LRO mission orbit insertion path.
Credit: NASA's Goddard Space Flight Center
[View video \(17 MB m4v\)](#)

Presenter: Michael Wargo, chief lunar scientist, Exploration Systems Mission Directorate, NASA Headquarters

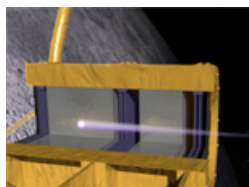


Figure 1: This animation shows conceptually how the CRaTER instrument works.
Credit: NASA/Boston University
[View video \(2 MB m4v\)](#)

Presenter: Richard Vondrak, LRO project scientist, NASA's Goddard Space Flight Center

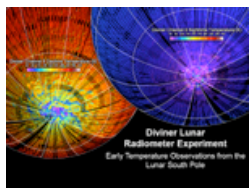


Figure 1: This image shows daytime and nighttime lunar temperatures recorded by Diviner. **Credit:** NASA/UCLA
[› Larger image](#)

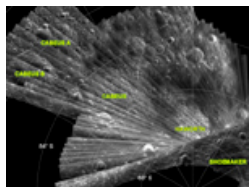


Figure 2: This Mini-RF image shows radar imagery of the lunar south pole. **Credit:** NASA/APL/LPI
[› Larger image](#)
[› NASA's Mini-RF site](#)

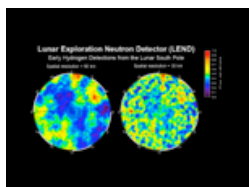


Figure 3: This image shows neutron flux detections around the lunar south pole from LEND. **Credit:** NASA/Institute for Space Research (Moscow)
[› Larger image](#)

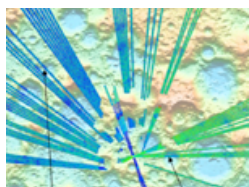


Figure 4: This image shows LAMP data of ultraviolet mapping around the lunar south pole. **Credit:** NASA/SwRI
[› Larger image](#)



Figure 5: This LROC image shows the rim of Shackleton crater, near the moon's south pole. **Credit:** NASA/GSFC/ASU
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[› Higher resolutions from Goddard's Scientific Visualization Studio](#)
[› Zoomable image from Arizona State University](#)
[› Arizona State University's LROC site](#)

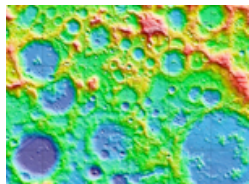


Figure 6: This mosaic shows altitude measurements from the LOLA instrument. **Credit:** NASA's Goddard Space Flight Center
[› Larger image](#)

Presenter: David Smith, Lunar Orbiter Laser Altimeter principal investigator, NASA's Goddard Space Flight Center



Figure 1: This animation shows conceptually the way LRO's LOLA instrument works. **Credit:** NASA's Goddard Space Flight Center Conceptual Image Lab
[› View video \(7.5 MB mov\)](#)

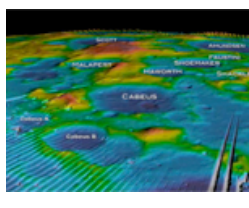


Figure 2: This 1.2-minute flyover video shows a visualization of LOLA altitude data. **Credit:** NASA's Goddard Space Flight Center Scientific Visualization Studio
[› View video \(13 MB m4v\)](#)
[› Higher resolutions from Goddard's Scientific Visualization Studio](#)

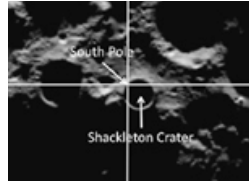


Figure 3: This image shows a LOLA profile of Shackleton crater. **Credit:** NASA's Goddard Space Flight Center
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