LCROSS Mission Overview

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LCROSS Mission Overview

- Kinetic impactor to explore the potential of water ice in permanently shadowed region of the Lunar Surface
- Inexpensive mission of opportunity co-manifested with LRO.
- Simple, straightforward spacecraft and mission design
- Plume will be visible from earth.
LCROSS Trajectory & Targeting

Ecliptic North

Implementing the Vision
Impact

Flash: 0.5 min

Curtain: 8.0 min

Crater: 1.5 min

Implementing the Vision
LCROSS Science Return

- Flash Photometry
- Visible Spectroscopy
- NIR Spectroscopy
- NIR Imaging
- Middle IR Imaging
- Visible Imaging