

MOON TREK: NASA'S NEW ONLINE PORTAL FOR LUNAR MAPPING AND MODELING

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<http://moontrek.jpl.nasa.gov>

A New Look at the Moon:

- Moon Trek is a major new release that significantly upgrades and builds upon the capabilities of its predecessor, NASA's Lunar Mapping and Modeling Portal (LMMP).
- Greatly improved navigation, 3D visualization, fly-overs, performance, and reliability.
- Compatibility with the other portals developed by NASA's Lunar and Planetary Mapping and Modeling Project.
- Online, browser-based Web portal; nothing to install.
- Designed for mission planning, lunar science, education and public outreach

Enhanced Data Visualization:

- Browse, visualize, and download from a list of hundreds of data products from a wide range of instruments aboard a number of lunar missions.
- Stack, order, and adjust transparency of data layers.
- Access detailed metadata for the data products.
- New 3D globe view uses standard keyboard game controls, for detailed fly-overs, and generating views from whatever angle and location the user desires.

An Integrated Suite of Interactive Analysis Tools:

- Calculate distances along a line, polyline, or freehand polyline path.
- Generate elevation profiles across user-defined paths.
- Select any area on the surface to generate an STL file for use with 3D printers.
- Calculate Sun angles.
- Generate slope maps (account required).
- Create surface lighting analysis animations (account required).

New Features and Coming Enhancements:

- Faceted search and new "Explorer Panel" now make it easier to find and select relevant data layers.
- Improved NAC coverage across the Moon's surface currently underway.
- Continued addition of more data products.
- Improved crater detection, rock detection, and traverse planning tools in development.
- Many more features in the works!

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