

LUNAR AND VESTA WEB PORTALS. E. Law¹, Lunar and Mapping Modeling Project Team¹, ¹Jet Propulsion Laboratory, California Institute of Technology.

Introduction: The Lunar Mapping and Modeling Project is a collaborative project led by Solar System Exploration Research Virtual Institute (SSERVI) at NASA's Ames Research Center. JPL leads the engineering and implement, and USGS leads the data product generation working with various missions. The project has developed two web-based Portals: Lunar Mapping and Modeling Portal (<http://lmp.nasa.gov>) [1] and Vesta Trek Portal (<http://vestatrek.jpl.nasa.gov>) [2] providing a suite of interactive visualization and analysis tools to enable users to access mapped Lunar and Vesta data products from past and current lunar missions (e.g., Lunar Reconnaissance Orbiter, Apollo) and from the Dawn mission.

The Portals allow users to explore and measure the surface, zooming in and out of the Moon and Vesta. The interactive maps are provided with different overlay options that provide details including visualization of various types of data (e.g., topography, mineralogy, abundance of elements and geology etc). These maps are value-added products based on data available from the Planetary Data System (PDS) [3]. The Portals also provide 3-D printer-exportable topography so users can print physical models of the Moon's and Vesta's surface. For Vesta, standard keyboard gaming controls are available to maneuver a first-person flyover view across the surface of Vesta.

We will give an overview of these Portals and live demonstration of their features.

References:

- [1] <http://lmp.nasa.gov/>
- [2] <http://vestatrek.jpl.nasa.gov/>
- [3] <http://pds.nasa.gov/>