

Thursday, March 24, 2016 [R637]  
**POSTER SESSION II: PLANETARY SPATIAL INFRASTRUCTURE:  
 SERVICES AND TOOLS**  
 6:00 p.m. Town Center Exhibit Area

Estes N. M. Leland J. Johnson A. J. Miconi C. E. Cisneros E. et al. **POSTER LOCATION #541**  
[Lunaserv: Serving the Planetary Science Community](#) [#1491]

The Lunaserv WMS server software has been expanded to support new projections, bodies, and uses.

Morgan T. H. McNutt R. L. Jr. **POSTER LOCATION #542**  
[Renewing the Planetary Data System — Roadmapping the Needs of the Community 2017–2026](#) [#1907]

We have initiated a PDS Roadmap for 2017–2026. This activity began with the release of an RFI. We report results to date, and outline next steps.

Neakrase L. D. V. Beebe R. F. Chanover N. J. **POSTER LOCATION #543**  
 Huber L. F. Crichton D. J. et al.  
[Planetary Data System: Supporting Archiving of Derived Data](#) [#2640]

PDS Atmospheres Node provides a simplified description of the PDS process of submitting derived data for archiving in response to new NASA data requirements.

Palmer E. E. Neese C. **POSTER LOCATION #544**  
[OLAF — The Easiest Way to Archive Your Data into the PDS](#) [#2870]

OLAF is a tool to help generate archive volumes for the PDS. It simplifies the generation of labels and support files.

Adler J. B. Hill J. R. Mitchell J. L. Christensen P. R. Anwar S. et al. **POSTER LOCATION #545**  
[JMARS Software Development for NASA's 2035 Human Landing Site Assessment](#) [#2981]

The JMARS team at ASU presents a development outline of new software tools useful for those involved with NASA's planned human missions to Mars in 2035.

Hare T. M. Laura J. R. Gaddis L. R. **POSTER LOCATION #546**  
[Interoperable Methods in Planetary Research for Geospatial Data Analysis](#) [#2889]

For more than a decade there has been a push in the planetary science community to support interoperable methods of accessing and working with geospatial data.

Bailen M. S. Hare T. M. Bartman E. S. Portree D. S. F. **POSTER LOCATION #547**  
[Extended Access to Historical Cartographic Products at the USGS Astrogeology Science Center](#) [#1494]

The USGS has made a push to index historical cartographic products on its main website, accessible through the long-term data storage portal Astropedia.

Day B. H. Law E. S. **POSTER LOCATION #548**  
[Education and Engagement Applications of NASA Lunar and Planetary Mapping and Modeling](#) [#1523]

NASA's Lunar and Planetary Mapping and Modeling Portals' data visualization and analysis tools provide exceptional applicability for education and engagement.

Besse S. B. Barbarisi I. B. Arviset C. A. **POSTER LOCATION #549**  
 De Marchi G. D.M. Barthelemy M. B. et al.  
[The New Planetary Science Archive: A Tool for Exploration and Discovery of Scientific Dataset of ESA Planetary Missions](#) [#1593]

The PSA is implementing a number of changes for its web-based interface, and for its database structure. It will be PDS3/PDS4 compliant, and user friendly.

Heyer T. Erkeling G. Hiesinger H. Reiss D. Luesebrink D. et al. **POSTER LOCATION #550**  
[\*The Multi-Temporal Database of Planetary Image Data \(MUTED\): A Tool to Support the Identification of Surface Changes on Mars\*](#) [#1852]

The Multi-temporal Database of Planetary Image Data (MUTED) is a tool to identify the spatial and temporal coverage of planetary image data from Mars.

Stein T. C. Arvidson R. E. Zhou F. **POSTER LOCATION #551**  
[\*PDS Analyst's Notebook for MSL and MER: Addition of Image Measurement Tools\*](#) [#1192]

The PDS Analyst's Notebook (an.rsl.wustl.edu) provides end to end tracking of archived Mars rover data from the planning stage to the final science product.

Wang J. Scholes D. Zhou F. Slavney S. Guinness E. A. et al. **POSTER LOCATION #552**  
[\*The PDS Orbital Data Explorer Tools and Data Services\*](#) [#1244]

An overview of NASA's PDS Geosciences Node's web-based tool, ODE, for search and access orbital data from multiple planetary missions and instruments.

Blair D. M. Gowanlock M. Li J. D. Rude C. M. Herring T. et al. **POSTER LOCATION #553**  
[\*Improving Spacecraft Site Selection Through Computer-Aided Discovery and Data Fusion\*](#) [#1987]

Many data sets / Infinite possible sites / How do we decide?

Putzig N. E. Phillips R. J. Campbell B. A. Plaut J. J. Holt J. W. et al. **POSTER LOCATION #554**  
[\*Custom SHARAD Processing via the CO-SHARPS Processing Boutique\*](#) [#3010]

The Processing Boutique at CO-SHARPS (Colorado Shallow Radar Processing System) allows team and non-team users to apply custom processing to SHARAD radargrams.

Weirich J. R. Palmer E. E. Gaskell R. W. **POSTER LOCATION #555**  
[\*Testing of Stereophotoclinometry \(SPC\) Software in Support of the OSIRIS-REx Mission\*](#) [#2777]

We evaluate SPC in support of OSIRIS-REx. RMS accuracy is similar to image resolution, and features smaller than 5x the image resolution are poorly represented.