

Tuesday, March 20, 2018

[T335]

**POSTER SESSION I: IMPROVED SCIENCE THROUGH THE IMPLEMENTATION
OF A PLANETARY SPATIAL DATA INFRASTRUCTURE III: SERVICES**

6:00 p.m. Town Center Exhibit Area

Kingston C. Palmer E. Stone J. Drum M. Neese C. et al. *POSTER LOCATION #525*
[Update on OLAF Capabilities](#) [#2885]

The PDS Small Bodies Node has been modernizing and updating its On-Line Archiving Facility (OLAF) to support new data types in PDS4, including CSV tables.

Neakrase L. D. V. Sweebe K. Huber L. Stevenson Z. Chanover N. et al. *POSTER LOCATION #526*
[New and Old Data: Archiving with PDS — One Philosophy](#) [#1239]

PDS Atmospheres Node is developing an integrated web environment for PDS4 bundle development for new data and migration of PDS3 data to the PDS4 standard.

Scholes D. Wang J. Arvidson L. E. Zhou F. Slavney S. et al. *POSTER LOCATION #527*
[Updates to the PDS Orbital Data Explorer for Faster Data Downloads](#) [#1235]

Updates to NASA's PDS Geosciences Node's web-based tool, ODE, to support faster downloads of orbital data from planetary missions.

Hare T. M. Gaddis L. R. Mayer D. P. *POSTER LOCATION #528*
[Initial Support for PDS4 Within the Geospatial Data Abstraction Library \(GDAL\)](#) [#1703]

Here we introduce initial support for PDS4 read/write capabilities within the Geospatial Data Abstraction Library (GDAL).

Williams D. R. Hills H. K. Taylor P. T. McLaughlin S. A. Guinness E. A. *POSTER LOCATION #529*
[Upcoming Data Collections Restored by the Lunar Data Project/PDS Lunar Data Node](#) [#2524]

A review of Apollo data collections restored and about to be archived with PDS.

Slavney S. Arvidson R. E. Crisp J. A. *POSTER LOCATION #530*
[Converting PDS3 Science Archives from Active Planetary Missions to PDS4](#) [#1508]

PDS is working with active planetary missions to convert data to the PDS4 archive standard, to ensure their longevity and usefulness to the science community.

Riedel C. Michael G. G. Orgel C. Kneissl T. *POSTER LOCATION #531*
[An ArcGIS Independent Application to Conduct Crater Size-Frequency Measurements with Respect to Crater Obliteration Effects](#) [#1478]

We developed an application to conduct crater size-frequency measurements from shapefiles and included the new buffered non-sparseness correction technique.

Heyer T. Hiesinger H. Reiss D. Erkeling G. Bernhardt H. et al. *POSTER LOCATION #532*
[The Multi-Temporal Database of Planetary Image Data: A Comprehensive Tool to Study Dynamic Mars](#) [#1001]

The Multi-Temporal Database of Planetary Image Data (MUTED) is a web-based tool to support the identification of surface changes and processes on Mars.

Kirk R. L. Howington-Kraus E. Edmundson K. Redding B. Galszka D. et al. *POSTER LOCATION #533*

[Community Tools for Cartographic and Photogrammetric Processing of Mars Express HRSC Images](#) [#2184]

We have completed developing and testing a full set of tools for processing HRSC images that are being made available to users in the planetary community.

Christensen P. R. Anwar S. Burris M. E. Carter S. R.
Dickenshied S. L. et al. **POSTER LOCATION #534**
[J-Asteroid: JMARS for Asteroids and Other Small Bodies](#) [#2788]

J-Asteroid for OSIRIS-REx extends JMARS functionality to fully support 3D visualization and mission planning of small, irregular shaped bodies.

Vincent J.-B. **POSTER LOCATION #535**
[shapeViewer, a Mapping Tool for the Morphological Analysis of Small Bodies and Mission Operations Planning](#) [#1281]

Mapping small bodies / Is a difficult challenge / shapeViewer does it!

Ernst C. M. Barnouin O. S. Daly R. T. Small Body Mapping Tool Team **POSTER LOCATION #536**
[The Small Body Mapping Tool \(SBMT\) for Accessing, Visualizing, and Analyzing Spacecraft Data in Three Dimensions](#) [#1043]

The Small Body Mapping Tool (SBMT) makes it easy to access and analyze spacecraft data of small bodies.

Hirata N. Demura H. Ichikawa M. Endo T. Ishihara Y. et al. **POSTER LOCATION #537**
[AiGIS: A 3D-GIS for Visualization of Map and Shape of Irregular-Shaped Small Bodies](#) [#1849]

Geographic Information System for irregular-shaped small bodies with 3D visualization capability is introduced.

Estes N. M. Paris K. N. Barnett J. S. Bowley K. S. Leland J. et al. **POSTER LOCATION #538**
[LROC Planetary Spatial Data Infrastructure Overview](#) [#1110]

Overview of the various tools, standards, and interfaces that make up the LROC spatial data infrastructure.

Nelson D. M. Olson A. J. Williams D. A. **POSTER LOCATION #539**
[Image Digitization of Earth Analog Studies for Planetary Data System Archiving](#) [#2680]

The Ronald Greeley Center for Planetary Studies is digitizing a portion of its unique photographic collection for PDS archiving.

Skinner J. A. Jr. Fortezzo C. M. Gaither T. A. Hare T. M.
Huff A. E. et al. **POSTER LOCATION #540**
[The USGS-NASA Planetary Geologic Mapping Program: Status, Process, and Future Plans](#) [#2906]

We summarize the status of NASA-funded USGS geologic map production, as well as updates and future plans, for the USGS-NASA Planetary Geologic Mapping Program.

Bailen M. B. Montes L. D. Hare T. M. Gaddis L. R. Hagerty J. J. **POSTER LOCATION #541**
[New Map-Based Web Portal to Access Cartographic Products at the USGS Astrogeology Science Center](#) [#1655]

The USGS Astrogeology Science Center now provides a web-based map portal to search for planetary cartographic data (<https://astrogeology.usgs.gov/maps>).

Hagerty J. J. Laura J. R. Hayes A. Jaumann R. Schultz P. et al. **POSTER LOCATION #542**
[The Role of the NASA Regional Planetary Image Facility Network in a Planetary Spatial Data Infrastructure \(PSDI\)](#) [#2225]

The RPIF Network is evolving to better serve the planetary science community by fulfilling a critical role in a planetary spatial data infrastructure.

Archinal B. A. IAU WG Cartographic Coordinates/Rotational Element **POSTER LOCATION #543**
[Recommendations from the IAU Working Group on Cartographic Coordinates and Rotational Elements](#) [#1657]

Summary of report from the IAU WG on Cartographic Coordinates and Rotational Elements, with recommendations on planetary coordinate systems and body shapes.

Gaddis L. R. Laura J. Anderson R. B. Hare T. Klima R. et al. **POSTER LOCATION #544**
[Update on PySAT: A Spectral Data Analysis Tool for Planetary Science](#) [#1535]

We present an update on the status of the PySAT software package for working with planetary multi- and hyper-spectral data.

Backer J. W. Becker K. Becker T. Berry K. L. Edmundson K. L. et al. *POSTER LOCATION #545*
[Updates to Integrated Software for Imagers and Spectrometers](#) [#3007]

A description of updates and improvements made to the US Geological Survey's Integrated Software for Imagers and Spectrometers (ISIS3) package.

Mazur M. J. Hildebrand A. R. Gural P. S. *POSTER LOCATION #546*
[Reprocessing WISE Space Telescope Imagery with a Matched-Filter Moving-Object Software Pipeline](#) [#2242]

A matched-filter algorithm is used to reprocess imagery from the WISE mission. Initial results indicate more moving objects and an SNR limit between 2 and 3.