

Monday, June 8, 2015
POSTER SESSION:
PLANETARY DATA ARCHIVES, PRODUCTS, TOOLS AND SERVICES
5:00 p.m. Humphreys Foyer

Miconi C. E. Estes N. M. Bowman-Cisneros E. Robinson M. S.

[Lunaserv Global Explorer, 3D](#) [#7015]

Lunaserv Global Explorer 3D is a platform independent, planetary data visualization application, which serves high resolution base-map imagery and terrain from web map service data sources, and displays it on a 3D spinning-globe interface.

Hagee W. Anwar S. Noss D. Dickenshied S.

[J-Asteroid, 3D Data Formats and Issues for the Visualization of Small Bodies](#) [#7023]

In adding support for 3D visualization of arbitrary data on small bodies, the J-Asteroid application has identified various pros and cons of existing data formats and issues rendering data in those formats. Key formats and issues will be presented.

Stanboli A. LaVoie S.

[PDS Imaging Node Atlas III and Faceted Navigation](#) [#7008]

The PDS Imaging Node Atlas III utilizes faceted navigation, an interactive style of browsing datasets that allows users to filter a set of items by progressive-ly selecting from only valid values of a faceted classification system.

Garcia P. A. Isbell C. E. Gaddis L. R.

[A History of the NASA Planetary Data System \(PDS\) Imaging Node's Map-A-Planet Legacy Web Services](#) [#7057]

NASA Planetary Data System (PDS) Imaging Node's Map-A-Planet Legacy Web Services have served the planetary data community for more than fifteen years. Here we look back at the evolution and development of the services over the that time.

Hare T. M. Gaddis L. R. Bailen M. LaVoie S. K. Padams J.

[PDS Annex: A PDS Imaging Node Repository for Geospatial Planetary Research Products](#) [#7060]

The PDS Imaging Node Annex, or simply The Annex, is a new online facility to support scientists who use PDS image data to create derived geospatial products registered to a solid planetary body.

Gaddis L. R. Kirk R. Archinal B. Edmundson K. Weller L. Sides S. Boardman J.

Malaret E. Besse S.

[New ISIS Software for Working with Moon Mineralogy Mapper Data](#) [#7012]

We present a summary of the new software and processing capabilities in the USGS ISIS software for processing Moon mineralogy mapper data.

Gaddis L. R. Barrett J. Laura J. Milazzo M.

[USGS ISIS Tools Supporting Lunar SELENE "Kaguya" Data from Terrain Camera, Multiband Imager and Spectral Profiler Instruments](#) [#7040]

We describe new software available for users of SELENE Kaguya data from the Terrain Camera, Multiband Imager, and Spectral Profiler instruments.

Henriksen M. R. Manheim M. R. Becker K. J. Howington-Kraus E. Robinson M. S.

[High Resolution Regional Digital Terrain Models and Derived Products from MESSENGER MDIS Images](#) [#7009]

MDIS NAC images acquired from separate orbits under favorable conditions have been used to produce DTMs covering key regions of scientific interest.

Henriksen M. R. Manheim M. R. Speyerer E. J. Boyd A. K. Robinson M. S.

[LROC NAC DTM Production](#) [#7010]

The production of DTMs from LROC NAC images has improved since the beginning of the mission, resulting in higher absolute accuracy.

Henriksen M. R. Gojic D. Gray P. E. Wagner R. V. Robinson M. S. LROC Team
[Regional LROC NAC Controlled Mosaics and Absolute Accuracy Assessment](#) [#7033]

As well as providing accurate, high resolution data for key regions of scientific interest, Regional LROC NAC controlled mosaics allow a convenient way to test the effects of bundle adjustment parameters and radius sources on absolute accuracy.

Nelson D. M. Wagner R. V.
[Digitizing Apollo Landing Site Features and Traverses from LROC Image Data](#) [#7034]
Database creation of named Apollo landing site features and traverses.

Wagner R. V. Robinson M. S. LROC Team
[Design and Processing of the Lunar North Pole Mosaic](#) [#7049]
The LROC NAC Lunar North Pole Mosaic is the largest photo mosaic in the world at 681 gigapixels. This is how we made it, and how we're making it bigger.

Milazzo M. P. Herkenhoff K. Becker K. Russell P. Delamere A. McEwen A. S.
[MRO/HiRISE Radiometric Calibration Update](#) [#7030]
Calibrated; now HiRISE radiometric numbers have meaning.

Lozac'h L. Quantin-Nataf C. Allemand P. Bultel B. Clenet H. Harrisson S. Loizeau D.
Ody A. Thollot P.
[MarsSI: A Distributed Information System for Managing Data of the Surface of Mars](#) [#7006]
MarsSI is a Web-GIS application that allows geologists to automatically download, calibrate and project remote-sensing orbital data of Mars and also produce high resolution DTM.

Isbell C. E. Garcia P. A. Hare T. M. Archinal B. A. Gaddis L. R.
[Lunar Modeling and Mapping Program Products – A Planetary Data System Archive](#) [#7061]
NASA's Lunar Modeling and Mapping Program (LMMP) data products are important resources in support of current and future scientific research and exploration. We now plan to capture these data and associated documentation within a PDS archive.

Nelson D. M. Williams D. A.
[A New Geographic Information Systems Lab: Facilities and Instruction at the Ronald Greeley Center for Planetary Studies](#) [#7036]
Description of the facility and GIS lab at the Ronald Greeley Center for Planetary Studies.

Raugh A. C. Hughes J. S.
[An Overview of PDS4 Archival File Formats](#) [#7045]
This poster presents the rationale and derivation of the archival file formats designed for and comprising the heart of the new PDS4 data format standards.

Million C. C.
[Toward Community Standards for Software Data Management in Planetary Science](#) [#7011]
We present suggestions for how historical approaches to data and knowledge sharing in planetary science and other fields can inform a community standard for software data management in light of new requirements.

Hardman S. Hughes J. S. Joyner R. Crichton D. Law E.
[Deploying a Planetary Data Tool Registry](#) [#7048]
The Planetary Data System (PDS) is looking to provide a registry of tools and services relating to the access and use of planetary data. This presentation will describe the work towards the development and population of this registry for the community.

Becker K. J. Becker T. L.

[ISIS Workshops Using Virtualization](#) [#7062]

ISIS workshops are now using virtualization technology to improve the user experience and create a stable, consistent and useful ISIS installation for educational purposes as well as future processing needs.

Radulescu C. Levoe S. R. Algermissen S. S. Rye E. D. Hardman S. H.

[PDS4 Bundle Creation Governance Using BPMN](#) [#7052]

The AMMOS-PDS Pipeline Service (APPS) provides a Bundle Builder tool, which governs the process of creating, and ultimately generates, PDS4 bundles incrementally, as science products are being generated.

Deen R. G. Algermissen S. S. Ruoff N. A. Chen A. C. Pariser O. Capraro K. S. Gengl H. E.

[Pointing Correction for Mars Surface Mosaics](#) [#7055]

The process used by the Multimission Image Processing Lab (MIPL) to make seam-corrected mosaics for MER, MSL, PHX, InSight, and Mars 2020 will be described, and examples presented.

Deen R. G. Mayer S. C. Sayfi E. M. Radulescu C. Levoe S. R.

[VICAR Open Source Release](#) [#7059]

Announcement of the release of the VICAR image processing system as Open Source.

Anderson R. B. Clegg S. M. Graff T. Morris R. V. Laura J.

[Generation of a Database of Laboratory Laser-Induced Breakdown Spectroscopy \(LIBS\) Spectra and Associated Analysis Software](#) [#7053]

We describe plans to generate a database of LIBS spectra of planetary analog materials and develop free, open-source software to enable the planetary community to analyze LIBS (and other spectral) data.

Anderson R. B. Herkenhoff K. E. Wiens R. C. Clegg S. M. Forni O. Lasue J. Cousin A.

Gasnault O. Delapp D. Lanza N. Blaney D.

[ChemCam Data Access, Processing, and Interpretation](#) [#7031]

This abstract summarizes how to access ChemCam data, how raw data is processed, and a variety of methods used for qualitative and quantitative interpretation.