

Tuesday, March 8, 2011

POSTER SESSION I: DATA TOOLS, ACCESS, AND ARCHIVING

6:00 p.m. Town Center Exhibit Area

Manaud N. Heather D. Barthelemy M. Martinez S. Vazquez J. L. Szumlas M.

[ESA's Planetary Science Archive and Associated Scientific Activity](#) [#1078]

The European Space Agency's Planetary Science Archive (PSA) makes all scientific and engineering data returned by ESA's planetary missions accessible to the world-wide scientific community. It also provides additional support for the production of scientific data.

Slavney S. Arvidson R. E. Guinness E. A. Stein T. C.

[PDS Geosciences Node Data and Services](#) [#1895]

The Geosciences Node of NASA's Planetary Data System (PDS) works directly with NASA missions and the science community to ensure that quality science data archives are produced and made available to the planetary science community.

Wang J. Bennett K. J. Scholes D. M. Slavney S. Guinness E. A. Arvidson R. E.

[Searchable Observation Data in PDS's Orbital Data Explorer](#) [#1896]

NASA's PDS Geosciences Node's Orbital Data Explorers support observation databases together with web-based query tools to subset MOLA/LOLA/Diviner data at particular area and to provide derived products for further analysis or making customized maps.

Stein T. C. Arvidson R. E.

[Increasing the Value of Planetary Data Archives Through Strong Producer-Archivist Interaction](#) [#2061]

This abstract discusses ways in which early and regular interaction between the Planetary Data System and data producers is beneficial.

Bailen M. S. Akins S. W. Sucharski B. Gaddis L. Hare T. M. Raub R.

[Improvements to the PDS Planetary Image Locator Tool \(PILOT\)](#) [#2214]

The Planetary Image Locator Tool (PILOT) is a web-based portal and map interface that provides a robust search engine for several Planetary Data System (PDS) image catalogs available from the Unified Planetary Coordinates (UPC) database.

Scharff E. B. Beyer R. A. Broxton M. Lundy M. Fay J. Turcan P. Fay D. Messeri L.

[WorldWide Telescope Mars](#) [#2337]

The NASA/Microsoft WorldWide Telescope (WWT) Mars collaboration produces large mosaics of planetary imagery that can be easily displayed and navigated, making it easier for scientists and engineers to publish and access planetary geospatial data via the Internet.

Archinal B. A.

[Overview of the IAU Working Group on Cartographic Coordinates and Rotational Elements and Its Current Report](#) [#2362]

The work of the IAU Working Group on Cartographic Coordinates and Rotational Elements is described, as is their recent triennial report on coordinate systems for all solar system bodies. Input from the planetary community is encouraged.

Hare T. M. Plesea L. Akins S. W.

[Planetary OGC Interoperability Experiment](#) [#2638]

As an ongoing effort to promote Internet protocols for sharing data and resources, several planetary facilities will conduct an Open Geospatial Consortium Interoperability Experiment to assess the benefits and limitations of current mapping standards.

Ohtake S. Demura H. Hirata N. Terazono J.

[Development of a GIS-Based Online Discussion System for Scientists with Google Earth API and Twitter](#) [#2297]

This study has developed an online discussion system cooperating with GIS for researchers in planetary sciences. We focused on mashup approach with the existing web services; Google Earth API and Twitter.