

Tuesday, March 13, 2007
POSTER SESSION I: PLANETARY DATA, IMAGING, AND CARTOGRAPHY
6:30 p.m. Fitness Center

Slavney S. Beebe R. Crichton D. Hughes S. Zender J.

The International Planetary Data Alliance [#1336]

The International Planetary Data Alliance (IPDA) is a joint effort by national space exploration agencies, research institutions, and universities to establish archive standards that make it easier to share data across international boundaries.

Becker K. J. Gaddis L. R. Soderblom L. A. Anderson J. A. Barrett J. M. Becker T. L. Hare T. M. Sides S. C. Soltesz D. L. Stanboli A. Sucharski R. M. Sucharski T. L. Winfree K. N.

The Unified Planetary Coordinates Database [#2022]

The goal of the Unified Planetary Coordinates project is to provide easy access to planetary data in a set of unified, consistent coordinate systems.

Hare T. M. Plesea L. Dobinson E. Curkendall D.

Advanced Uses of Open Geospatial© Web Technologies for Planetary Data [#2364]

This abstract outlines some of the advanced uses and innovative data sets that we have incorporated into the JPL planetary WMS servers OnMars and OnMoon, as well as some of the advanced WMS features. The specific technology used for this work is based on the OGC Web Mapping Service (WMS) standard.

Michael G. Walter S. Neukum G.

HRSCview: A Web-based Data Exploration Tool for Mars Express HRSC [#1857]

To increase the usability and accessibility of the very large HRSC dataset to the science community we have implemented a system for exploring the data via the web, with linked access to full archived science data products.

Soltesz D. L. Peck B. A. Hare T. M. Barrett J. M. Sucharski B. M. Garcia P. A. Blue J. S.

Map-a-Planet: Extending and Improving the Creation of Cartographic Image Maps on the Web [#1921]

USGS Map-a-Planet web site redesign is underway to add new functionality to better serve planetary image data online and directly to the desktop via web-enabled applications such as geographic information systems as well as external web servers.

Deans M. C. Meyer C. Lee P. Beyer R.

Finding Space Science Images in Large Databases by Similar Appearance [#2439]

We have developed a method for matching images by appearance. Images are preprocessed offline in a few hours. Matches are found in a matter of seconds. We have demonstrated the system using three instruments, with examples shown.

Harada N. Karino T. Hirata N. Demura H. Asada N.

Recognition Algorithm for Craters, Ridges, and Grabens [#1451]

This goal is development of recognition algorithm for craters, ridges, and grabens. This algorithm has been improved with trial production. Current performance for detecting features competes with the appearance of beginners of geological mappers.

Kanzawa M. Hirata N. Demura H. Asada N.

Development of a Image Processing Software Supporting Collaborative Works with Thematic Maps [#1259]

We developed software to satisfy a general purpose of common meetings, and not adequate for the scientific online discussions on the planetary remote sensing data.

Eichhorn G. Accomazzi A. Grant C. S. Henneken E. Kurtz M. J. Bohlen E. H.
Thompson D. M. Murray S. S.

The ADS for Planetary Sciences [#1240]

The ADS provides various free services for finding, accessing, and managing bibliographic data, including a quick search form, a notification service, and private library capabilities, plus access to 3.3 million scanned pages of published articles.

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

The PDS Geosciences Node Archives Data from Mars and Lunar Missions [#1349]

The Geosciences Node of NASA's Planetary Data System (PDS) is working with several NASA lunar and Mars missions, current and future, to ensure that quality science data archives are produced and made available to the user community.