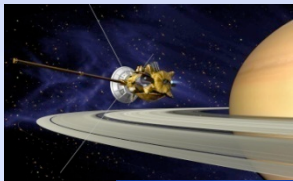




International Planetary Data Alliance

IPDA: a Standards Initiative for Building Compatible Archives

Maria Teresa Capria
INAF – IASF
Rome, Italy



Deutsches Zentrum
für Luft- und Raumfahrt e.V.
in der Helmholtz-Gemeinschaft



- Scientific community in the U.S. decided in the eighties to setup a data system for planetary related data, the **Planetary Data System (PDS)**
 - **ESA adopted the PDS-Standard** as the base standard for its archival system, the Planetary Science Archive (PSA)
 - This has led to **ESA PSA/NASA PDS collaborating on an international strategy for planetary science data archiving**
 - In 2005, the PSA and PDS initiated an effort to develop common **interoperability standards** for accessing and distributing data internationally from national planetary science archives; this includes
 - A *protocol* for finding, accessing and retrieving science products from across agency systems
 - Common semantics for discipline-specific queries
- The plan is that joint missions in the future will use the interoperability protocol** rather than submitting and archiving data from another agency in a local system.

Other space agencies need to setup similar archival systems, including standards, tools, services, etc in the coming years to serve their scientific community

- Co-operations make it necessary to minimize the differences between systems and standards, e.g. Rosetta (NASA,ESA), BepiColombo (ESA,JAXA), Chandrayaan (ISRO,ESA), ...
- Wish from archival systems to share lessons-learned

World-wide scientific communities want to have standardized archival systems

- They want to archive data with minimum effort
- Demand for new, sophisticated services and tools
- Concerns in accepting data standards fully controlled by sister agency

SOLUTION: internationalize the planetary data archival efforts

International Planetary Data Alliance .IPDA

In 2006, the International Planetary Data Alliance was established which includes participation from major space agencies around the world.

The IPDA has two core goals:

- **Developing international standards for data archiving**
- **Developing interoperability protocols for allowing data sharing among planetary data systems.**
- **The data standards within the IPDA, including the data models and derived dictionaries, are based on the NASA Planetary Data System (PDS)** that is the de-facto standard for all planetary data at the time of the IPDA founding.

International Planetary Data Alliance

Membership

.IPDA

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- @ **The IPDA is represented by a Steering Committee.**
 - @ Membership in the Steering Committee is comprised of representatives from any space agency, scientific research institute, university or other organization approved by the Steering Committee that indicate a willingness to participate fully in the IPDA activities and provide the commensurate level of support for defining and implementing the IPDA standards.
 - @ **The Steering Committee is led by a chairperson and a deputy chairperson** nominated by the Steering Committee for a maximum two years term.

- **The IPDA activities are supported by Projects.**
- The IPDA projects are not restricted to SC members.
- The IPDA Projects are formed, and a Project Leader is nominated, by the Steering Committee.
- The Steering Committee define requirements for IPDA Projects and oversees their development
- **The IPDA projects are aimed at giving recommendations, requirements and guidelines that have to be implemented by the users, especially data providers.**

The Third Steering Committee meeting has been held on 11-13 July in Montreal.

A resolution on International access to planetary and lunar data has been submitted to the Cospar Council and has been approved.

The primary objective of this resolution is to emphasize the need for collaborative efforts to develop mutual data standards and access tools.

A secondary objective is to acknowledge the preliminary groundwork that has been achieved by the IPDA and provide a place to coordinate the IPDA activity under the COSPAR body.

Conclusio

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Make data archiving more appealing and easy!

More information on our website:

<http://planetarydata.org>