International Planetary Data Alliance (IPDA): A Standards Initiative for Building Compatible Archives

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Overview

• NASA/PDS and ESA/PSA have worked closely together to coordinate archiving activities for current missions (e.g., Huygens, Mars Express, Venus Express)
  – This has led to ESA PSA/NASA PDS collaborating on an international strategy for planetary science data archiving to:
    • Give scientific communities world-wide access and services to data archives built from similar standards
    • Reduce cost of archiving and distributing science data by collaborating and sharing standards
    • Ensure reusability of science data across agency/mission/instrument boundaries
    • Coordinate archiving processes and plans
    • Improve and increase services offered

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

COSPAR

IPDA

IPDA Steering Committee

Chairperson

Member Agency

Agency Representative

IPDA Project

Project Leader

Project Members

IPDA Project

Project Leader

Project Members

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Project Leader

Project Members

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Project Leader

Project Members

International Planetary Data Alliance
  * Core Data Dictionary
  * Core Model
  * Core Data Formats

Planetary Data System/Planetary Science Archive
  * Core POS Data Dictionary
  * POS Data Model
  * POS Data Formats

Identified International Standards Piece

HTTP/Layer

PDI

PSA

PDAP - Dec 1

External/External Data

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Australian Synchrotron

CNR - Istituto Nazionale di Fisica Nucleare

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EDF - Electricité de France

Indian Institute of Science

IPARC

JAXA

NASA

CPIC

BNIC

CNES

DLR

ESA

INP

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