

惑星科学の共通基盤：汎的惑星アーカイブプロジェクト「国際惑星データ連合」 2009-2011

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Universal planetary database development project "The International Planetary Data Alliance" 2009-2011

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<http://planetarydata.org/>

The International Planetary Data Alliance (IPDA), formally formed under COSPAR (Formal start: from COSPAR 2008), is a joint international effort to enable global access and exchange of high quality planetary science data, and to establish archive standards that make it easier to share the data across international boundaries.

In July 2010, we held the 5th Steering Committee meeting. Thanks to the many players from several agencies and institutions, we got fruitful results in 8 projects.

In the Standard definitions and documents, (1) IPDA Standards Identification, for the development of the IPDA standards [led by E. Rye (NASA/PDS) and G. Krishna (ISRO)], (2) IPDA Archive Guide, for the documentation for archive preparation for PIs and Archivers [led by M. T. Capria (INAF) and D. Heather (ESA/PSA)], and (3) IPDA Registries Definition, for the development of IPDA registry architecture and plan [led by D. Crichton (NASA/PDS)].

In the Standardization of PDS based scheme, (4) IPDA Assessment of PDS4 Data Standards, for the international assess and recommendation for new PDS definitions [led by S. Hughes (NASA/PDS)] and (5) Ancillary Data Standards, for the implementation of Ancillary Data into the IPDA scheme [led by C. Acton (NASA/JPL)].

In the Interoperability, (6) PDAP Specification, to develop and update the PDAP specification [led by J. Salgado (ESA/PSA) and Y. Yamamoto (JAXA)], (7) Interoperability Assessment, to access the Venus Express in ESA/PSA through NASA/PDS [led by R. Beebe (NMSU) and D. Heather (ESA/PSA)], and (8) PDAP Geographic Information System (GIS) extension, to extend PDAP to support GIS-oriented mapping data [led by N. Hirata (U. Aizu) and T. Hare (USGS)].

Next step 'IPDA-2010/2011' is just the timing to implement the new planetary data standards, PDS4, into the first internationalized scheme. Contribution from and the effects to us are much expected. We are entering to the gate for the establishment of the Infrastructure.