

Infrastructure for Planetary Sciences: Universal planetary archive project 'International Planetary Data Alliance'

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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 June - July 2009, we held the 4th Steering Committee meeting. Thanks to the many players from several agencies and institutions, we got fruitful results in 6 projects: (1) Inter-operable Planetary Data Access Protocol (PDAP) implementations [led by J. Salgado@ESA], (2) Small bodies interoperability [led by I. Shinohara@JAXA & N. Hirata@U. Aizu], (3) PDAP assessment [led by Y. Yamamoto@JAXA], (4) Architecture and standards definition [led by D. Crichton@NASA], (5) Information model and data dictionary [led by S. Hughes@NASA], and (6) Venus Express Interoperability [led by N. Chanover@NMSU].

Next step 'IPDA-2009/2010' is important, because the NASA/PDS system reformation will be first controlled and reviewed by this international scheme. Contribution from Japan is much expected from all players. We are now just the gate for the establishment of the Infrastructure.

This paper presents the achievements and plans, which will be summarized in the paper which will be appeared in 'Space Research Today' on Dec.

Reference: IPDA 4th Steering Committee Meeting, <http://planetarydata.org/meetings/4th-ipda-steering-committee-meeting/>, Rome, July 2009.

[Core member in 2009-2011: Y. Kasaba (Tohoku U.: Chair), D. Crichton (NASA/JPL: Co-Chair), M. T. Capria (IASF/INAF: former Chair), R. Beebe (NMSU: PDS Scientist), Joe Zender (ESA/ESTEC: Founder)]