

Planetary Science Archives Interoperability: A Prototype Application

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The Planetary Data System (PDS) standard is the de-facto archival standard within the planetary community. Besides NASA, also ESA adopted the PDS standard as the underlying base in building the Planetary Science Archive (PSA), the mission archive for ESA's planetary missions. To fulfill the requirement that U.S. co-Investigators on ESA missions have seamless access to the mission data via the PDS offered interfaces, the idea of interoperability of the two archival systems, the PDS and the PSA, was born. A small working group from PDS and ESA prepared an initial version of an archive interoperability protocol and is working towards the first prototypes demonstrating the power of such a protocol.

The poster will show screenshots of an interoperability prototype application written in the Interactive Data Language (IDL). The application allows the map-based selection of region-of-interest on the Mars surface and follow-up query and retrieval of data located on PDS and the PSA servers. The simplicity of the protocol will be shown by discussing the software design used to implement the given functionality.