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Defining extensions to the IPDA/PDAP protocol to access planetary plasmas data

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Abstract

The IPDA (International Planetary Data Alliance) is an international effort focused on the development of standards for data archiving and promotion of interoperability among planetary science archive systems of data returned from exploration of the solar system.
One of the main objectives of IPDA is the promotion of standards like PDAP (Planetary data Access Protocol) to ensure interoperability.
The PDAP protocol is very basic. There are few input parameters, making it flexible and open. This flexibility allows the handling of different kinds of data like images, spectra, numerical datasets. PDAP uses the PDS Dictionary and Data Model.
Although PDAP is a general protocol, it does not currently take into account data like plasma data or atmosphere data.
In this paper, we describe an extension (Data Model and dictionary) to PDAP for planetary plasmas. This extension will be proposed to the IPDA, and will serve as a template for future extensions for atmosphere data, or other types of data. This effort is done in collaboration with the JRA 4 activity of IDIS/EuroPlaNet RI.