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+ Atmospheric Sciences

+ Geosciences

+ Imaging

+ Navigation & Ancillary Information (NAIF)

+ Planetary Plasma Interactions (PPI)

+ Planetary Rings

+ Small Bodies



Planetary Data System

NASA's On-Line Archive for Planetary Science Data

The PDS archives and distributes scientific data from NASA planetary missions, astronomical observations, and laboratory measurements. The PDS is sponsored by NASA's Office of Space Science. Its purpose is to ensure the long-term usability of NASA data and to stimulate advanced research.

+ RESEARCHERS

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STUDENTS & EDUCATORS

The PDS is mainly designed for scientists researching the planets. While you may find what you are looking for here, you are usually better off visiting one of the sites below, or another of the [related sites](#).



NEW RELEASES

17 July 2007

[Odyssey Radio Science Data Release 62](#)

3 July 2007

[Odyssey Data Release 20](#)
GRS, THEMIS, and SPICE

19 June 2007

[Odyssey Radio Science Data 61](#)

8 Jun 2007

[Mars Reconnaissance Orbiter release 1](#)



Tools & Documents

- OVERVIEW

+ ARCHIVING GUIDE

+ PROPOSERS INFO

+ DATA DICTIONARY

+ REFERENCE LOOKUP

The PDS offers a variety of tools to help you work with PDS data. As well, there are links to tools developed by others outside the PDS community that work well with PDS data for visualization and analysis.

Use the lists below to get the best tools for your needs.



+ USING AND MANIPULATING DATA

[NASAVIEW](#) for viewing images

[ISIS](#) image manipulation package

[UNZIP](#) for unpacking files in ZIP archives

[Splash](#) for tabular data display (Windows only)

[Julian Library](#) for date conversion

[Kepler Library](#) for computing target coordinates

[Ring Profile Library](#): Earth-based profile data for planetary rings

+ THE ARCHIVING PROCESS

[Archive Preparation Guide](#): an overview of the archiving process

[Information for proposers](#) about creating an instrument or data analysis proposal

[Archive cost analysis tool](#) for estimating archiving costs

[PDS Standards Reference](#): technical details on PDS archiving formats and standards

[Example archive files and documents](#)

+ PREPARING DATA FOR ARCHIVING

[Data dictionary lookup tool](#) to find details of keywords and values in PDS labels

[Planetary Science Data Dictionary](#) in downloadable format

[PDS Tools Package](#): tools and libraries for low-level creation and access to PDS data

[DITDOS](#) tools for creating archive web sites



Planetary Atmospheres

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8 June 2007
[MRO Release 1](#)
CRISM, CTX, HIRISE, MARCI, RSS, SPICE

DATA ANALYSIS SUPPORT

[2007 ROSES DAP](#)

[2007 DISCOVERY DAP](#)

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Students & Educators

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[Planetary Photojournal](#)

A searchable collection of press release images from NASA planetary missions.

[About the Planets](#)

Reference information and images of each planet in our solar system.

[Map a Planet](#)

Create maps of many of the planets of our solar system, with customizable locations and scale.

PDS Web Sites

[Atmospheres](#)

[Geosciences](#)

[Imaging](#)

[Navigational & Ancillary](#)

[Information \(NAIF\)](#)

[Planetary Plasma](#)

[Interactions \(PPI\)](#)

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About PDS

The Planetary Data System (PDS) is an archive of data products from NASA planetary missions, which is sponsored by the NASA Office of Space Science. We actively manage the archive to maximize its usefulness, and it has become a basic resource for scientists around the world.

All PDS-produced products are peer-reviewed, well-documented, and easily accessible via a system of online catalogs that are organized by planetary disciplines.

PDS technology has lowered both the cost and risk for large archives through the use of CD media and tools. We use standards for describing and storing data that are designed to enable future scientists who are unfamiliar with the original experiments to analyze the data, using a variety of computer platforms, with no additional support. These standards (PDS Standards Reference and Planetary Science Data Dictionary) address the data structure, description contents, media design, and a set of terms.

Though PDS does not fund the production of archive data from active missions, we work closely with project teams to help them design well-engineered products that can be released quickly.

While most of our products can be ordered automatically, PDS provides teams of scientists to help users select and understand the data. We also offer special processing for products tailored to the needs of individual users.

Structure

PDS Project Management is assigned to the Solar System Exploration Data Services Office at the Goddard Space Flight Center.

PDS is comprised of a federation of eight teams--called nodes--geographically distributed around the U.S. Five are science discipline nodes, focusing on Atmospheres, Geosciences, Planetary Plasma Interactions, Rings and Small Bodies. Three nodes are considered support nodes; these are the engineering node, the imaging node and the navigation and ancillary data node. Additionally, there is special support for the Geosciences and Atmospheres nodes provided by a Radio Science specialist.

PDS Web Sites

[Atmospheres](#)

[Geosciences](#)

[Imaging](#)

[Navigational & Ancillary](#)

[Information \(NAIF\)](#)

[Planetary Plasma](#)

[Interactions \(PPI\)](#)

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Other PDS Sites

[PDS Management](#)

[Engineering](#)

Search:

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New Releases

27 Nov 2006
[Odyssey Radio Science Data 54](#)

1 Nov 2006
[Mars Exploration Rovers Release 10](#)

12 Oct 2006
[Odyssey Radio Science Data 53](#)

[more releases...](#)
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Data Analysis Proposals Support

[Cassini ROSES DAP](#) (Atmospheres Node)
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[Discovery DAP](#) (Small Bodies Node)

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