

Planetary Science Archive

Users Quick Guide

How to query and access data
using the PSA FTP Interface
General Overview

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Accessing the FTP area

Step 1

- a) Open the PSA www home page at:
<http://www.rssd.esa.int/psa>
- b) Select "FTP Access" from the left menu or the top of the page.
- c) You will be directed to the PSA FTP Access web-page

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UserID:

ESA PLANETARY SCIENCE ARCHIVE

PLANETARY DATA ACCESS

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WELCOME TO THE ARCHIVE

The European Space Agency's Planetary Science Archive (PSA) contains data returned by ESA's Solar System missions.

The primary objectives of the PSA are to:

- Support the experimenter teams in the preparation of their data
- Enable and ensure the long-term preservation of the data in the archive
- Distribute scientifically useful data to the world-wide community
- Provide supplementary data services aiming to maximise the usage of planetary mission data and ease scientific data analysis.

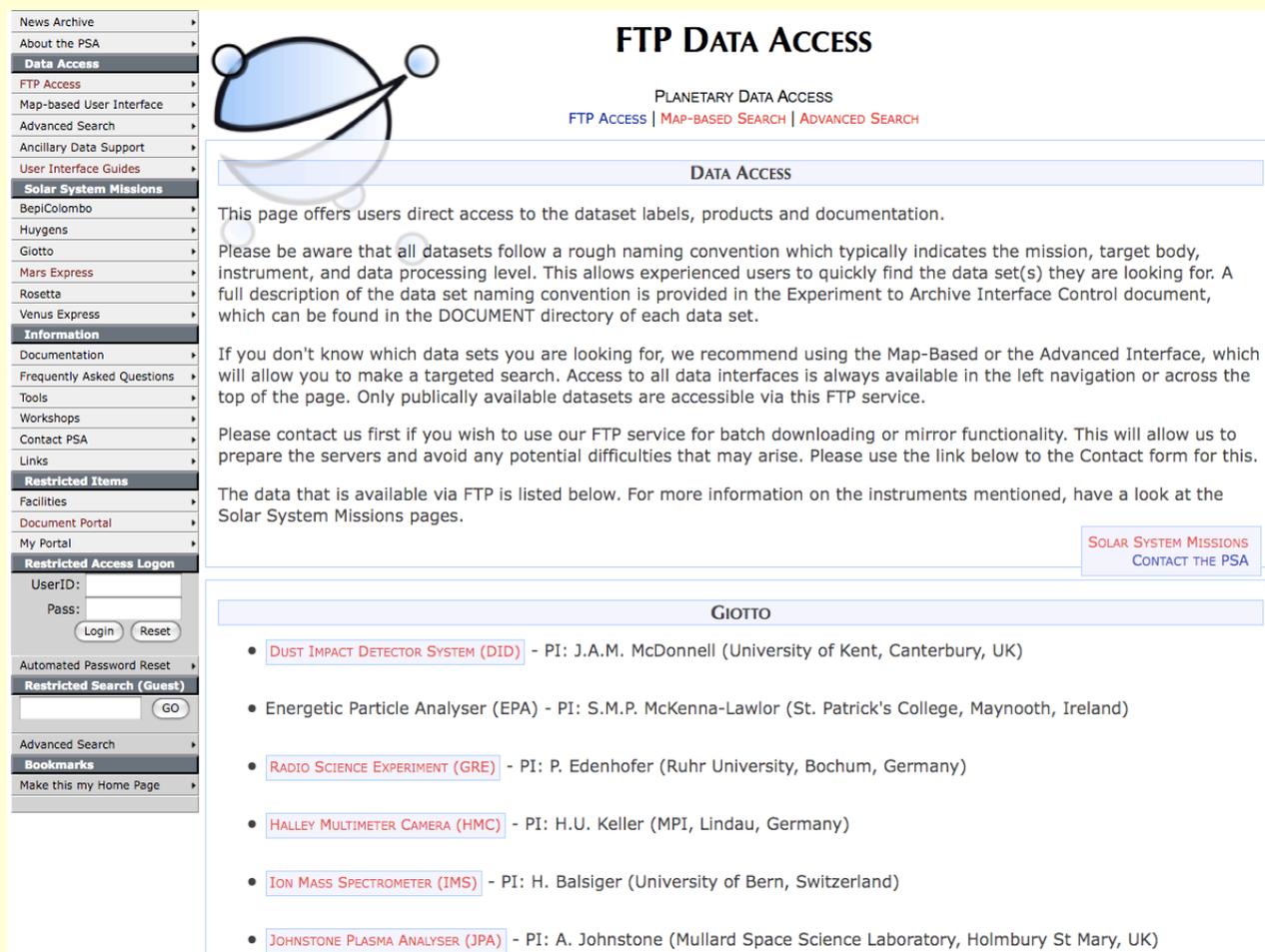
The PSA use NASA's Planetary Data System standard as a baseline for the formatting and structure of all data contained within the archive. Follow the 'About the PSA' link below for information on the PSA and the PDS standards.

For information on the latest data and software releases, follow the link below to the latest PSA news.

[ABOUT THE PSA](#)
[LATEST PSA NEWS](#)

Direct Browsing of Datasets I

- From the FTP Browser entry page, select the instrument of interest.
- Only public datasets are available through this interface! So you will not find
 - Datasets before public release
 - Datasets in Peer Review



FTP DATA ACCESS

PLANETARY DATA ACCESS
[FTP ACCESS](#) | [MAP-BASED SEARCH](#) | [ADVANCED SEARCH](#)

DATA ACCESS

This page offers users direct access to the dataset labels, products and documentation.

Please be aware that all datasets follow a rough naming convention which typically indicates the mission, target body, instrument, and data processing level. This allows experienced users to quickly find the data set(s) they are looking for. A full description of the data set naming convention is provided in the Experiment to Archive Interface Control document, which can be found in the DOCUMENT directory of each data set.

If you don't know which data sets you are looking for, we recommend using the Map-Based or the Advanced Interface, which will allow you to make a targeted search. Access to all data interfaces is always available in the left navigation or across the top of the page. Only publically available datasets are accessible via this FTP service.

Please contact us first if you wish to use our FTP service for batch downloading or mirror functionality. This will allow us to prepare the servers and avoid any potential difficulties that may arise. Please use the link below to the Contact form for this.

The data that is available via FTP is listed below. For more information on the instruments mentioned, have a look at the Solar System Missions pages.

[SOLAR SYSTEM MISSIONS](#)
[CONTACT THE PSA](#)

GIOTTO

- [DUST IMPACT DETECTOR SYSTEM \(DID\)](#) - PI: J.A.M. McDonnell (University of Kent, Canterbury, UK)
- Energetic Particle Analyser (EPA) - PI: S.M.P. McKenna-Lawlor (St. Patrick's College, Maynooth, Ireland)
- [RADIO SCIENCE EXPERIMENT \(GRE\)](#) - PI: P. Edenhofer (Ruhr University, Bochum, Germany)
- [HALLEY MULTIMETER CAMERA \(HMC\)](#) - PI: H.U. Keller (MPI, Lindau, Germany)
- [ION MASS SPECTROMETER \(IMS\)](#) - PI: H. Balsiger (University of Bern, Switzerland)
- [JOHNSTONE PLASMA ANALYSER \(JPA\)](#) - PI: A. Johnstone (Mullard Space Science Laboratory, Holmbury St Mary, UK)

Direct Browsing of Datasets II

> Browse through the dataset in the usual way.

Index of ftp://psa.esac.esa.int/pub/mirror/MARS-EXPRESS/SPICAM

[Up to higher level directory](#)

 MEX-Y-M-SPI-2-UVEDR-RAWXCRUISE-MARS-V1.0	10/17/06 2:22:00 PM
 MEX-Y-M-SPI-2-IREDR-RAWXCRUISE-MARS-V1.0	10/17/06 2:33:00 PM

[Up to higher level directory](#)

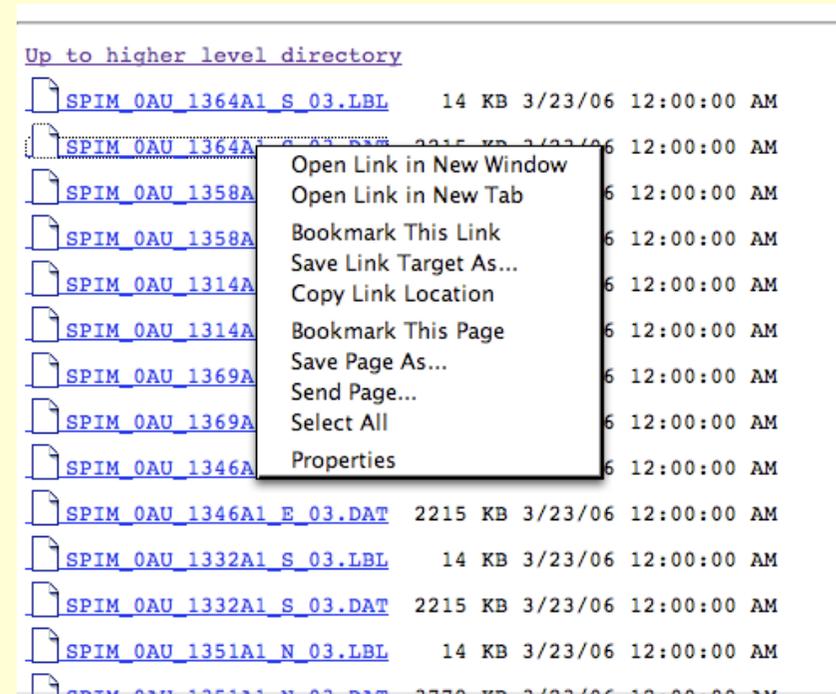
 CATALOG	10/17/06 2:08:00 PM
 DATA	10/17/06 2:12:00 PM
 BROWSE	10/17/06 2:17:00 PM
 CALIB	10/17/06 2:13:00 PM
 DOCUMENT	10/17/06 2:13:00 PM
 GEOMETRY	10/17/06 2:19:00 PM
 LABEL	10/17/06 2:22:00 PM
 INDEX	10/17/06 2:22:00 PM
 VOLDESC.CAT	4 KB 3/22/06 12:00:00 AM
 AAREADME.TXT	31 KB 3/23/06 12:00:00 AM

[Up to higher level directory](#)

 SPIM_OAU_1364A1_S_03.LBL	14 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1364A1_S_03.DAT	2215 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1358A1_E_03.LBL	14 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1358A1_E_03.DAT	2215 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1314A1_S_03.LBL	14 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1314A1_S_03.DAT	2215 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1369A1_E_03.LBL	14 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1369A1_E_03.DAT	2215 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1346A1_E_03.LBL	14 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1346A1_E_03.DAT	2215 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1332A1_S_03.LBL	14 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1332A1_S_03.DAT	2215 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1351A1_N_03.LBL	14 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1351A1_N_03.DAT	3779 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1379A2_L_03.LBL	14 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1379A2_L_03.DAT	5020 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1330A1_S_03.LBL	14 KB 3/23/06 12:00:00 AM
 SPIM_OAU_1330A1_S_03.DAT	2215 KB 3/23/06 12:00:00 AM
SPIM_OAU_1382A2_L_03.LBL	14 KB 3/23/06 12:00:00 AM

Data Download

- **When using a web browser, please insure to use an appropriate method to download your data,**
 - E.g. in MOZILLA the ‘Save Link Target As...’
- **Be aware that you download only the file selected,**
 - ...
 - Detached label files (e.g. LBL and DAT) need to be both downloaded to get the full data product!
 - Any linked files, .e.g. ^DESCRIPTION = “INSTRUMENT.PDF” will not be attached to the downloaded file!



Accessing the PSA archive with an FTP-client

- You will be able to connect to the PSA archive with any ftp client, e.g. ncftp, ftp, fuqu, etc
 - Using <ftp://psa.esac.esa.int/pub/mirror>
 - Or directly the mission related subpage <ftp://psa.esac.esa.int/pub/mirror/MARS-EXPRESS>

Automatic Download Scripts / Mirror Scripts

- You can use any automatic download script (mirror, etc) to download recursively the data on the PSA.
- Before installing a regular download scheme on your side (mirror, etc), please inform us by sending a short note to psahelp@rssd.esa.int. We will keep an eye on the load of network and server such that other users are not disturbed. In such cases, we will contact you and propose alternative time periods and options to download the data of your interest.
- Be aware that the files that you see in your www-browser or your ftp-client are not the physical files, but a link into the PSA database system. When downloading data, the PSA server resolves the link on the fly and delivers the data back to you.
- When building mirror scripts, you can compare your data items against size or time with the ones on the PSA server.

Be careful when using automatic downloads, as the size of the datasets can be huge (several 100GBytes or larger)! Please contact the PSA Helpdesk beforehand.

PSA Remarks and Proposals

- Please send us your remarks psahelp@rssd.esa.int
- In case of problems, please visit the Frequently Asked Questions page before contacting us
- In case you can not find the data you are looking for, please read the Mission Specific pages on the PSA home page (<http://www.rssd.esa.int/psa>)