



The Herschel Science Archive User Interface

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HERSCHEL SPACE OBSERVATORY

Access to HSA



Herschel Science Centre

http://herschel.esac.esa.int/Science_Archive.shtml

Research & Science Home | ESA Public Web Site | Sci-Tech Portal | Herschel Public Web Site | Herschel Sci-Tech Portal

esa | Herschel Science Centre | European Space Agency

Astrophysics Missions | Planetary Exploration Missions | Solar Terrestrial Science Missions | Fundamental Physics Missions | Science Faculty

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Herschel Science Archive (HSA)

Herschel data products systematically generated by the [Herschel Data Processing pipeline](#) are made available to the users through the Herschel Science Archive (HSA) immediately after the pipeline processing is completed, typically 1-2 days after an observation has been executed. Following the completion of some basic quality control checks, something which may take from a few additional days to weeks, depending on the circumstances, notification e-mails are sent to the data owners that can then be informed about any quality issue affecting their observations.

Access to Herschel Data

To Access the HSA through the **user interface** please use the following link:

[Start the HSA User Interface Applet](#)

To run the HSA your web browser must be Java compliant, if not please install the latest Java following the instructions provided [here](#). If you still have problems, go to the [HSA Troubleshooting FAQ](#)

Alternatively, you can access the HSA via a Java Desktop application:

[Start the HSA User Interface Web Start](#)

To run the HSA as a desktop application, you must have Java Web Start enabled. Details on what Java Web Start is can be found [here](#).

[HSA Troubleshooting FAQ](#) | [HSA News](#)

By using the HSA, astronomers can search, browse, select and retrieve Herschel data products according to the observations proprietary rights as explained in Chapter 1 of the [Herschel Data Analysis Guide](#).

- Herschel General Information
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 - Conferences/Workshops
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 - Herschel Science Team
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 - Herschel People
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 - Introduction
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HSA User Interface (I): Login



The image shows two overlapping screenshots of the Herschel Science Archive 3.0 web interface. The background screenshot shows the main search page with the 'Login/Register' button circled in red. A red arrow points from this button to a blue text box that reads: "With your Herschel username/password". The foreground screenshot shows the 'Login, Registration & Account Maintenance' page. It contains a form with 'User Name' (filled with 'herschel') and 'Password' (filled with dots). Below the form are buttons for 'Login & proceed' and 'Login & stay here'. Underneath, the text 'Otherwise you can...' is followed by a button labeled 'Register As New User', which is also circled in red. At the bottom of the foreground window are 'Clear' and 'Dismiss' buttons.

HSA User Interface (II): Queries



Observation ID

Target name/coord

Obs. Mode

Observer/Proposal/AOR

OD/Time

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HSA User Interface (IV): Data retrieval



Herschel Science Archive 3.0

File Interoperability

esa Herschel Science Archive

Query Specification Latest Results Shopping Basket Login/Register Logout herschel On-demand Monitor

User: herschel Idle

Confirmation of Request Page

Request Summary

User ID	herschel
Number of Items	3 Observations
Estimated Total Product Size, Mb	609.33
FTP Download Time	Perform Estimation ----- Not Yet Calculated -----

Tar Option

- tar (one file)
- no tar (files loose)
- compressed tar (one file)

Confirm Abort

Subject: Your HSA Science Archive Data request herschel16550673 has been processed

From: hsa-help@sciops.esa.int

Date: 25/3/10 15:09

To: hscmsg@sciops.esa.int

Dear HSA User,

Your retrieval request has been successfully processed. The data may be retrieved from the following address where they will remain for 3 days.

Please follow the instructions below to access/browse the ftp area where your data are located:

```
ftp hsa.esac.esa.int
<your user name>
<your password>
prompt
cd herschel16550673
binary
dir
```

You can also access your files online from the browser at:
<ftp://herschel@hsa.esac.esa.int/herschel16550673/>
where you will be able to see some of the products on-line.

You can get more information about the Herschel project by accessing the Herschel web pages from the following URL:
<http://herschel.esac.esa.int/>

Best Regards,

The Herschel Science Data Archive team

- everdugo29514683
 - everdugo29514683.tar
- 1342194799
 - 13421947...1868.xml
 - auxiliary
 - calibration
- hhifi1342...8574Z.fits
 - level0
 - level0_5
 - level1
 - level2
 - logObsContext
 - quality
 - trendAnalysis
- hmapcont...6499Z.fits
 - HRS-H-LSB
 - HRS-H-USB
 - HRS-V-LSB
 - HRS-V-USB
 - WBS-H-LSB
 - WBS-H-USB
 - WBS-V-LSB
 - WBS-V-USB

HSA FAQ



The screenshot shows the Herschel Science Centre website. The main heading is "Herschel Science Archive (HSA)". Below it, there is a section titled "Access to Herschel Data" with instructions on how to use the user interface. A link for "HSA Troubleshooting FAQ" is circled in red. The page also includes a sidebar with navigation links and a footer with copyright information.

Problems with the ftp?

Consult the HSA FAQ

HERSCHEL SPACE OBSERVATORY

Q11. When I try to retrieve data from the HSA I get an error message in the console about an invalid magic number for FITS file. What is going on?

A11 The reason is that the "data" being downloaded is in reality a small file containing an error message. Possibly your Herschel password has non-alphanumeric characters in it. Please change it to a password containing only letters and numbers.

Q12. I have downloaded FITS files in a TAR archive from the HSA, but they are corrupted. How can I fix them?

A12 You probably used WinZip, or some equivalent compression software, in Windows. WinZip has an option called TAR file smart CR/LF conversion, in the Miscellaneous tab of the Configuration dialogue window (at least for version 12.0), that is enabled by default and causes the corruption. Just disable the option to solve this problem. For more information, please see the [Data Analysis Guide](#): Section 1.3.5.2, "Corrupted FITS file after unzipping"

Q13. I have downloaded FITS files in a TAR archive from the HSA, but when untaring it I get the message "lone zero block".

A13 The untaring (depending on the command used to untar) could give a "lone zero block" message at the end. This message can be ignored. The tar is correctly untared and there are no problems with the FITS files.

Q14. When I retrieve a tar file with my MAC via ftp, the tar I got seems to be empty. In fact, the size of the tar is too small (1 few Kb) to contain any Herschel FITS file.

A14 The standard Mac FTP browser does not work properly with the HSA ftp when you use the URL. It tries to mount it as a local disk but only put the reference and it does not invoke the real download. You should open a terminal (or use another ftp client) and connect directly to the ftp server.

Data Structure



Retrieving data from the HUI: (Always log-in required even for public data)

- **Direct retrieval:**
 - Direct ftp download of the data to the user disk
 - Observation per observation
 - One tar file per observation
- **Shopping basket retrieval:**
 - Is a request to the HSA which will process it and will send you back an e-mail
 - Ftp retrieval of data from an ftp area
 - A single tar file (compressed or not) with all the observations requested

Structure of the tar file: Tree structure of the ObservationContext in directories

