

# Planetary Science Archive

## Users Quick Guide

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

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Step 1

- a) Open the PSA www home page at:  
<http://www.rssd.esa.int/psa>
- b) Select “Map-based Search” from the left menu or the top of the page.
- c) The “PSA MAP Start Page” will appear on your screen and will start automatically.
- d) If you close your PSA window, you can re-start a new window by pressing “Start PSA MAP” button

<b>PSA Home</b>
<a href="#">PSA Home Page</a>
<a href="#">News Archive</a>
<a href="#">About the PSA</a>
<b>Data Access</b>
<a href="#">FTP Access</a>
<a href="#">Map-based User Interface</a>
<a href="#">Advanced Search</a>
<a href="#">Ancillary Data Support</a>
<a href="#">User Interface Guides</a>
<b>Solar System Missions</b>
<a href="#">BepiColombo</a>
<a href="#">Huygens</a>
<a href="#">Giotto</a>
<a href="#">Mars Express</a>
<a href="#">Rosetta</a>
<a href="#">Venus Express</a>
<b>Information</b>
<a href="#">Documentation</a>
<a href="#">Frequently Asked Questions</a>
<a href="#">Tools</a>
<a href="#">Workshops</a>
<a href="#">Contact PSA</a>
<a href="#">Links</a>

**PSA version 3.0**

(Check the full list of options for running the PSA)

Please note:

Closure of this window will terminate the PSA Browser and work may be lost.

Send your questions about the Planetary Science Archive to [PSA Helpdesk](#)

Step 1a

If you would like to download a stand-alone version of the Java interfaces, you can click on the ‘full list’ link where there is access to the PSA.jar file. This is only recommended for experienced java users.

File Documentation Help

**esa** Planetary Science Archive European Space Agency

**Mars Express**

Instrument:  ▼

Detector:  ▼

Processing Level:  ▼

**Map Options**

Map:  ▼  Zoom x1

**Actions**

90.00° N  
70.00° N  
50.00° N  
30.00° N  
10.00° N  
10.00° S  
30.00° S

180.00° E 220.00° E 260.00° E 300.00° E 340.00° E 20.00° E 60.00° E 100.00° E 140.00° E 180.00° E

PSA Version 3.0 - Mozilla ... MEX MAP Browser Screenshot Magic EN

Step 1

- a) Define a Region of Interest (ROI) by marking an area on the map with your mouse.
- b) A red-colored rectangle will be shown to visualise your ROI.
- c) Select your Instrument of choice and, if required, an instrument detector and processing level.
- d) Execute the query.

Step 2

- a) Analyse the footprint resulting from your query
- b) Select a footprint by moving the mouse over it and pressing a mouse button

Step 4

- a) Clear your search, re-select a region of interest and re-run your query

Step 5

- a) Refine your search by connecting to the Advanced Interface at any time.

The screenshot displays the ESA Planetary Science Archive web interface. At the top, there is a navigation bar with 'File', 'Documentation', and 'Help' menus. Below this, the 'esa' logo and 'Planetary Science Archive' title are visible, along with the 'European Space Agency' logo. The main interface is divided into several sections:

- Mars Express:** Contains dropdown menus for 'Instrument' (set to 'HRSC') and 'HRSC\_NADIR', and a 'Map Level' dropdown set to 'MAP PROJECTED'.
- Map Options:** Includes a 'Map' dropdown set to 'Any', a 'Grid' checkbox, and a 'Zoom x1' control.
- Actions:** Features buttons for 'Search', 'Cancel', 'Clear Search', 'Print', and 'Advanced Search'. Below these buttons, the coordinates '83.00° N 78.75° E' are displayed.
- Map:** A large topographic map of Mars with a grid overlay. A footprint menu is open over a specific region, listing three image files: 'H1572\_000\_ND3.IMG', 'H1594\_000\_ND3.IMG', and 'H1616\_000\_ND3.IMG'. The menu options are: 'Show This Footprint Alone', 'View Image', 'Show Label', 'Download Product', 'Download Documentation', and 'Download Software'.

At the bottom of the browser window, the taskbar shows 'PSA Version 3.0 - Mozilla ...', 'MEX MAP Browser', and 'Screenshot Magic'.

Step 3

- a) Select a service from the menu
  - a) Isolate a single footprint
  - b) View browse image, if available
  - c) Download data product or view label
  - d) Download all documentation or software related to this data product

# Options

## Option 1: Background map

- Select between several background maps
- Load your own map via the FILE menu.

## Option 2: visualise a grid on top of your background image

## Option 3: display a zoom window that allows you to better select individual data products

The screenshot shows the MEX MAP Browser interface. At the top, there is a menu bar with 'File', 'Documentation', and 'Help'. Below this is the 'esa Planetary Science Archive' header. The main interface is divided into several sections:

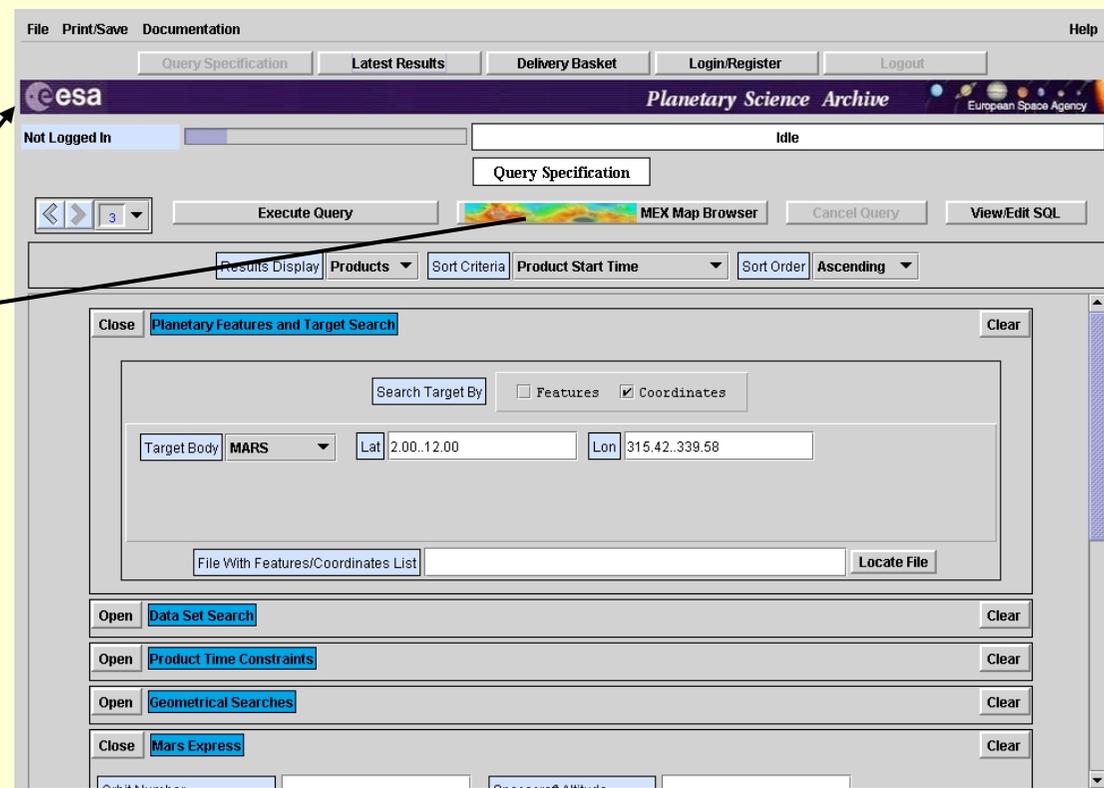
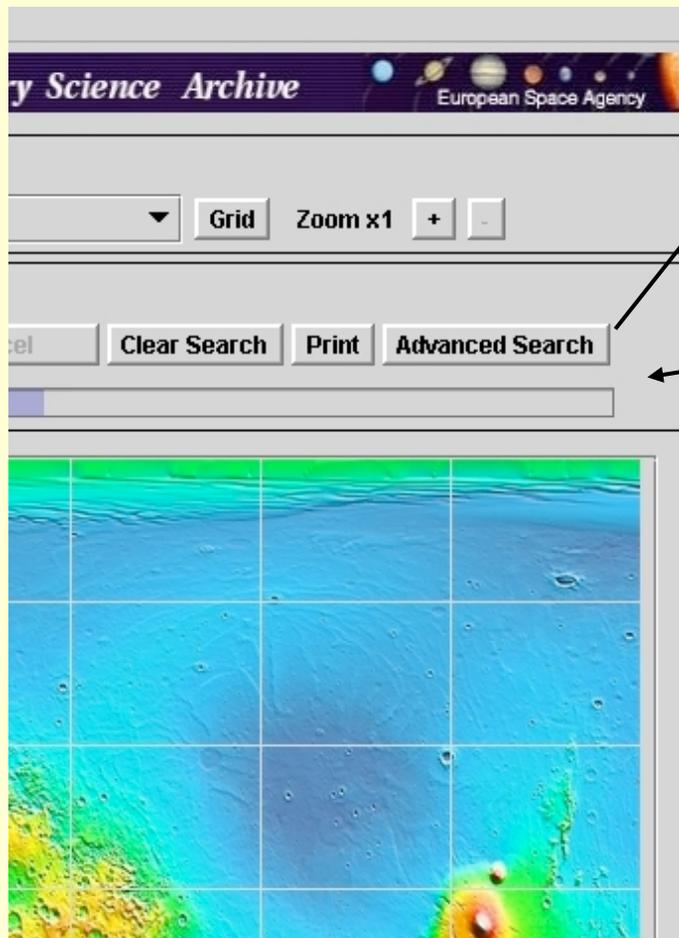
- Mars Express:** Contains dropdown menus for 'Instrument' (set to HRSC), 'Detector' (set to HRSC\_NADIR), and 'Processing Level' (set to MAP PROJECTED).
- Map Options:** Includes a 'Map:' dropdown menu (set to 'Any'), a 'Grid' checkbox, and 'Zoom x2' controls with '+' and '-' buttons.
- Actions:** Contains buttons for 'Search', 'Cancel', 'Clear Search', 'Print', and 'Advanced Search'. Below these is a coordinate input field showing '10.00° S 339.17° E'.

The main map area displays a topographic map of Mars with a color-coded elevation scale. A zoomed-in inset window is visible in the top-left corner, showing a detailed view of a specific region with a grid overlay. A tooltip at the bottom of the zoomed-in view reads: '1 PRODUCT IN THIS FOOT-PRINT, CLICK YOUR MOUSE FOR OPTIONS'. The taskbar at the bottom shows the Start button, 'Screenshot Magic', 'PSA Version 3.0 - Mozilla ...', and 'MEX MAP Browser'.

# Map-based Interface vs Advanced Interface

Switch between the Map-based Interface and the Advanced Interface of the PSA and vice versa.

The results you receive from your queries from within the advanced interface are taken over to the map-based interface and displayed there in case of Mars data for which geometry information is existing (HRSC, OMEGA). This gives you the full flexibility of the advanced interface coupled to the visual power of the map-based concept.



## PSA Remarks and Proposals

- Please send us your remarks [psahelp@rssd.esa.int](mailto: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>)