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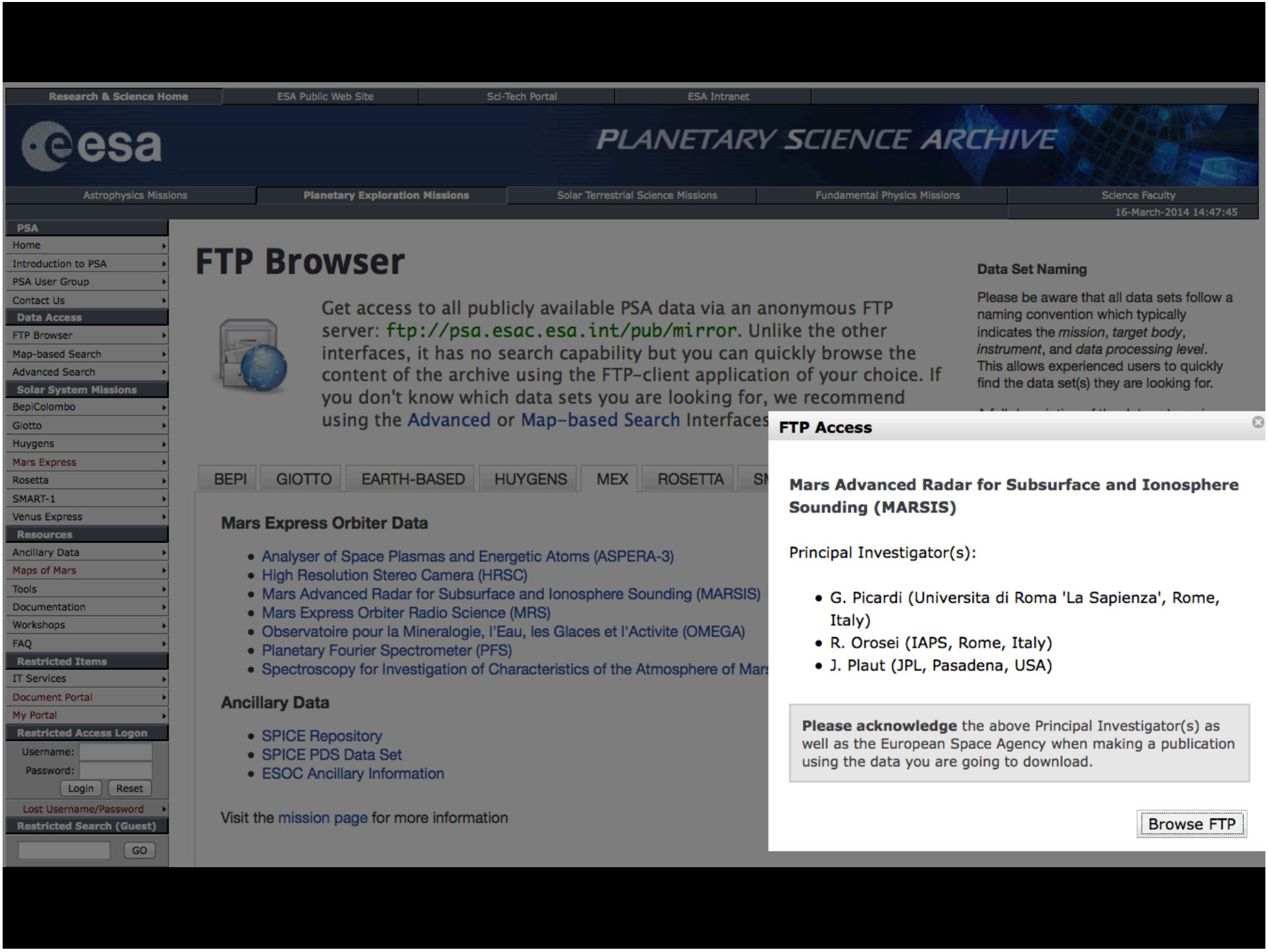
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Sci-Tech Portal
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Solar Terrestrial Science Missions
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Science Faculty
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Restricted Access Logon
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Get access to all publicly available PSA data via an anonymous FTP server: ftp://psa.esac.esa.int/pub/mirror. Unlike the other interfaces, it has no search capability but you can quickly browse the content of the archive using the FTP-client application of your choice. If you don't know which data sets you are looking for, we recommend using the Advanced or Map-based Search Interfaces
Data Set Naming
Please be aware that all data sets follow a 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.
BEPI
GIOTTO
EARTH-BASED
HUYGENS
MEX
ROSETTA
Mars Express Orbiter Data
Analyser of Space Plasmas and Energetic Atoms (ASPERA-3)
High Resolution Stereo Camera (HRSC)
Mars Advanced Radar for Subsurface and Ionosphere Sounding (MARSIS)
Mars Express Orbiter Radio Science (MRS)
Observatoire pour la Mineralogie, l'Eau, les Glaces et l'Activite (OMEGA)
Planetary Fourier Spectrometer (PFS)
Spectroscopy for Investigation of Characteristics of the Atmosphere of Mars
Ancillary Data
SPICE Repository
SPICE PDS Data Set
ESOC Ancillary Information
Visit the mission page for more information
FTP Access
Mars Advanced Radar for Subsurface and Ionosphere Sounding (MARSIS)
Principal Investigator(s):
G. Picardi (Universita di Roma 'La Sapienza', Rome, Italy)
R. Orosei (IAPS, Rome, Italy)
J. Plaut (JPL, Pasadena, USA)
Please acknowledge the above Principal Investigator(s) as well as the European Space Agency when making a publication using the data you are going to download.
Browse FTP

http://jmars.mars.asu.edu/

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Welcome to the JMARS website

Search

JMARS is an acronym that stands for Java Mission-planning and Analysis for Remote Sensing. It is a geospatial information system (GIS) developed by ASU's Mars Space Flight Facility to provide mission planning and data-analysis tools to NASA's orbiters, instrument team members, students of all ages, and the general public.

JMARS Announcements

2014/01/24 - JMARS Beta Version is now available for download!

2013/12/17 - New Tutorials and JMARS Beta Version coming soon!

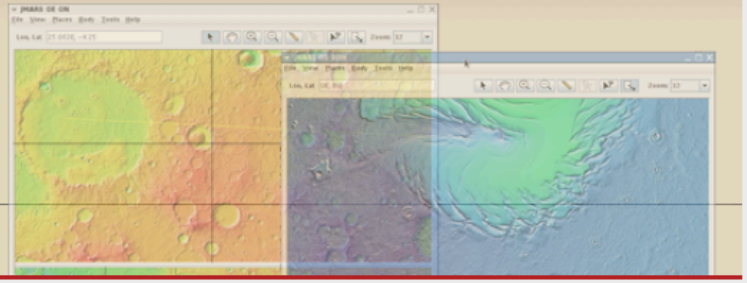
2013/12/17 - J-Vesta is now available!

2013/10/01 - New numeric MEX/OMEGA maps were added to JMARS

more

Tour of the JMARS user interface

- Introduction to JMARS Video Tutorial
- Interface Overview
- Viewing Window
- Layer Manager
- Interface Details



Tour of the JMARS Layers

Login

Username/Email Address: * Password: * Log in

Create new account | Request new password

JMARS Public Downloads

The following JMARS installer is likely the best for your system: Mac OS

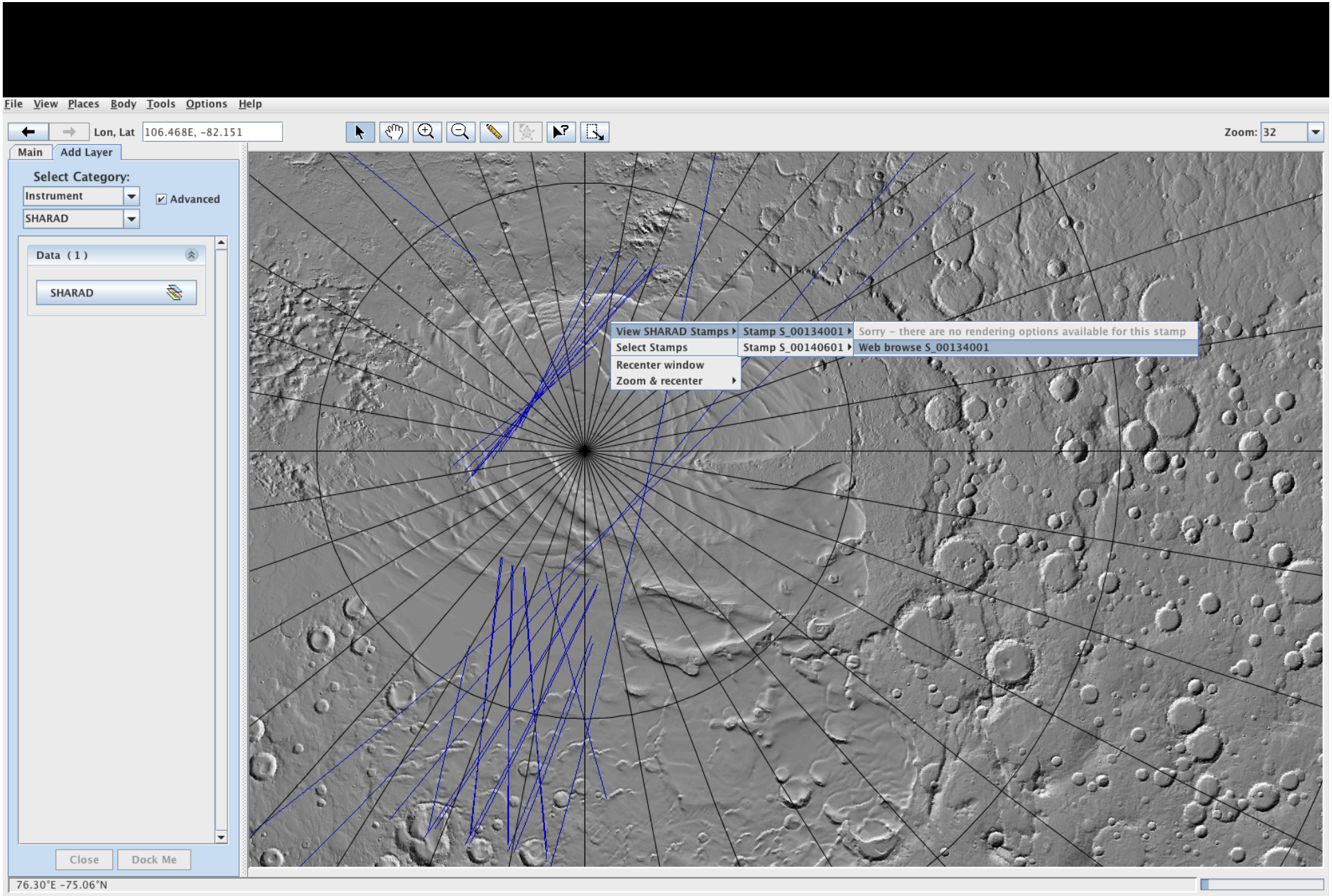
This JMARS installation includes several planetary bodies, such as Mars, Earth, Earth's moon, Mercury, Venus and many more

Show other JMARS installers:

The following JMARS Beta installer is likely the best for your system: Mac OS

This JMARS Beta installation includes several planetary bodies, such as Mars, Earth, Earth's moon, Mercury, Venus and many more

Show other JMARS installers: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Zoom: 32
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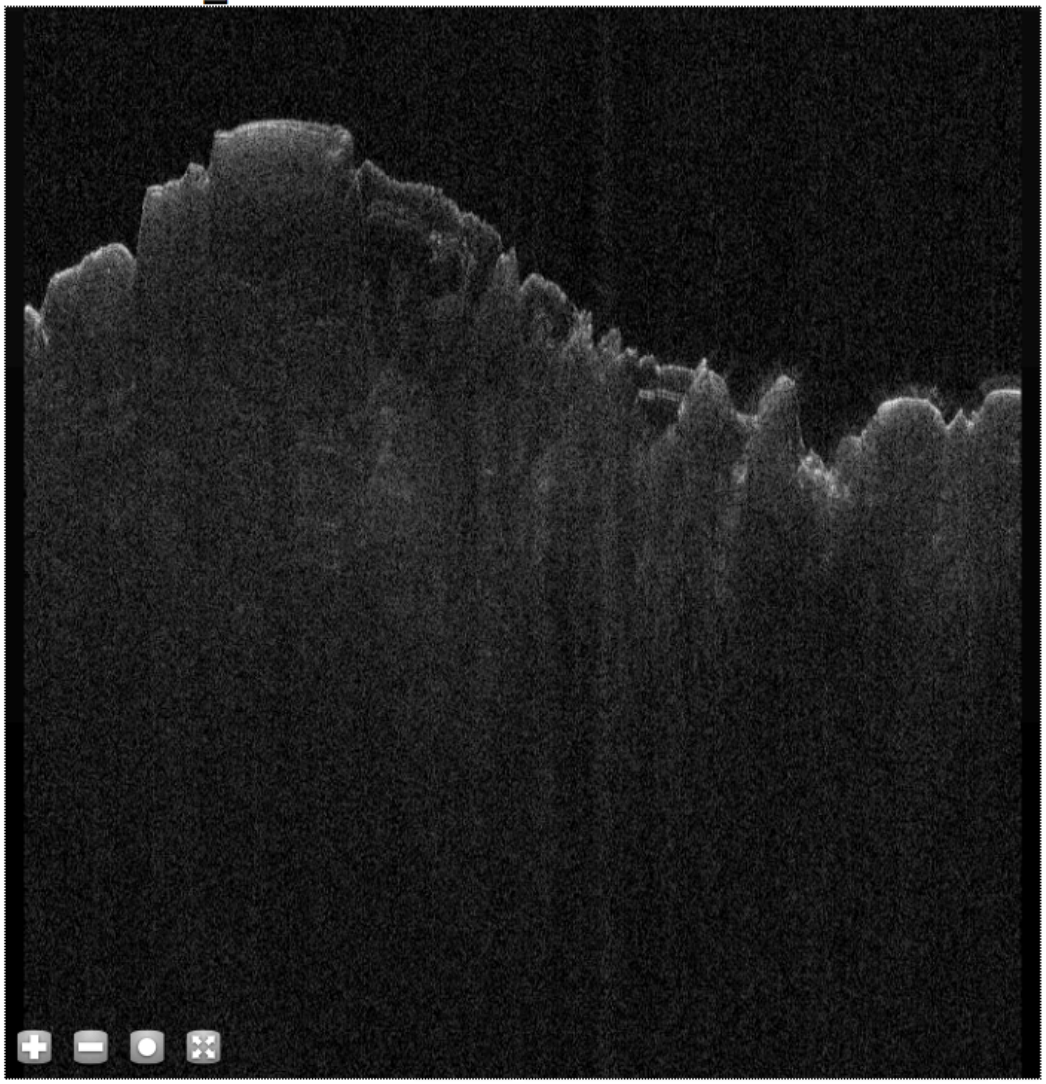
Select Category:
Instrument
Advanced
SHARAD
Data (1)
SHARAD
Close Dock Me
View SHARAD Stamps
Select Stamps
Recenter window
Zoom & recenter
Stamp S_00134001
Stamp S_00140601
Sorry - there are no rendering options available for this stamp
Web browse S_00134001
76.30°E -75.06°N

SHARAD: S_00134001



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Radial Velocity Minimum	-1.4184
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Solar Zenith Angle Maximum	114.51
Solar Zenith Angle Minimum	108
Spacecraft Radius Maximum	3627.136
Spacecraft Radius Minimum	3626.725
Tangent Velocity Maximum	3457

Full Image

SHARAD

About SHARAD

SHARAD (Shallow Radar) looks for liquid or frozen water in the first few hundreds of feet (up to 1 kilometer) of Mars' crust. SHARAD probes the subsurface using radar waves within a 15- to 25-megahertz frequency band to get the desired, high-depth resolution. The radar wave return, which is captured by the SHARAD antenna, is sensitive to changes in the electrical reflection characteristics of rock, sand, and any water that may be present in the surface and subsurface. Water, like high-density rock, is highly conducting, and has a very strong radar return. Changes in the reflection characteristics of the subsurface, caused by layers deposited by geological processes in the ancient history of Mars, are also visible. The instrument has a horizontal resolution of between 0.3 and 3 kilometers (between two-tenths of a mile and almost 2 miles) and a vertical resolution of 15 meters (about 50 feet) in free space, which translates