Some results about MARS EXPRESS Data



Andrea Sánchez Esmeralda Mallada

Minivicar Superhero: Angelo Pio Rossi

What we use?



High Resolution Stereo Camera (HRSC)



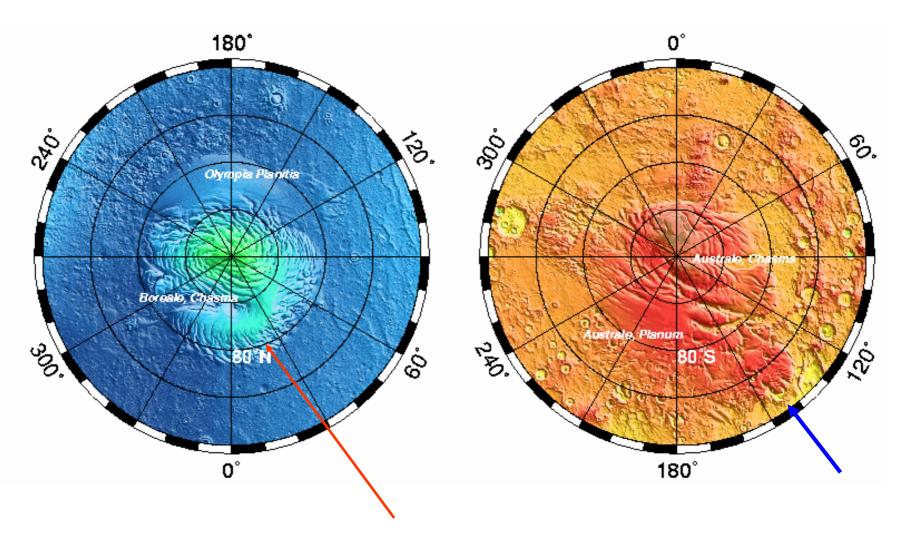
Mars Orbiter Laser Altimeter (MOLA) (Topography)



MARSIS Sub-Surface Sounding Radar Altimeter

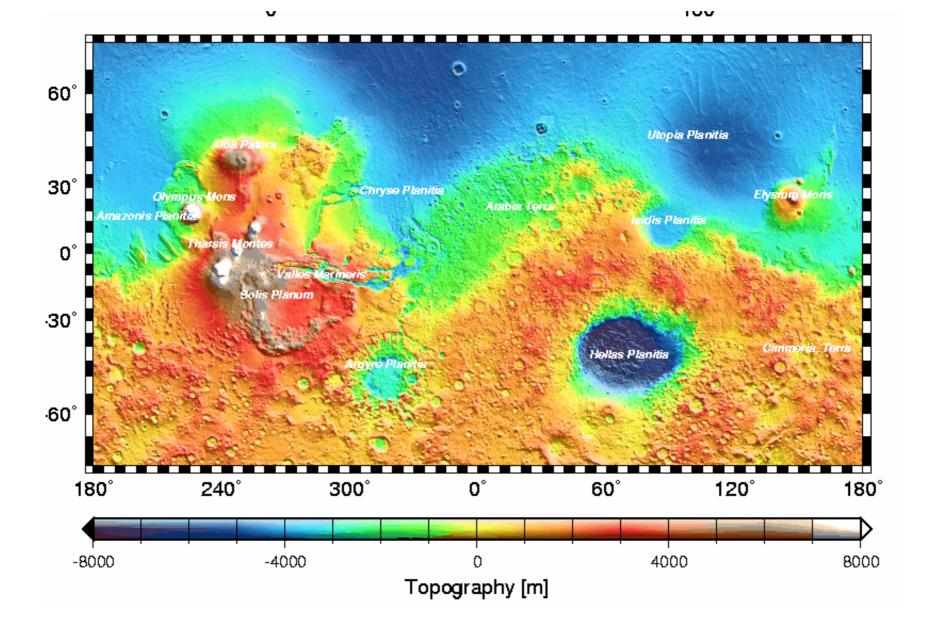
Data still not available, but soon. It will be possible to calculate the deep of some structures, e.g. glaciers.

Why the South Pole?



North Pole 'restricted' at Lat 80 N

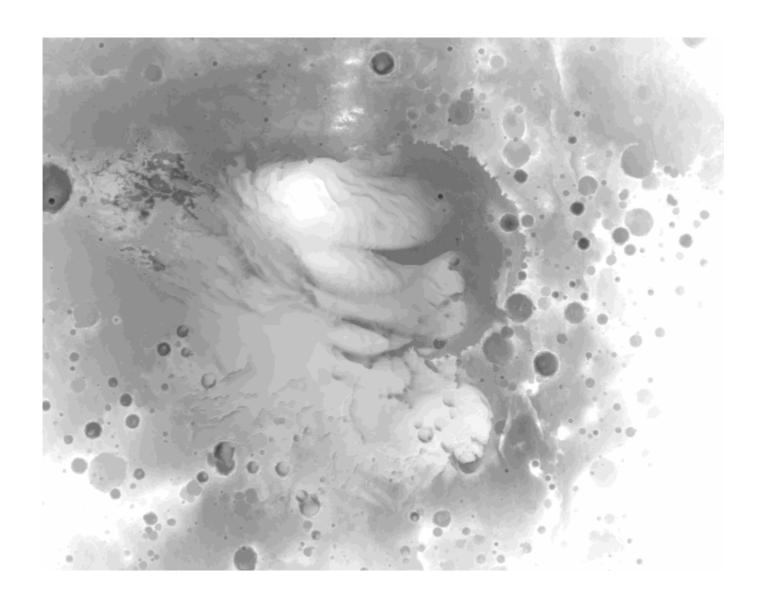
South Pole apparently spread



Note that South Hemisphere has more altitude



Mola stretch



How to find your images?



Berlin Planetology and Remote Sensing

Institute of Geosciences

Home » URSCview

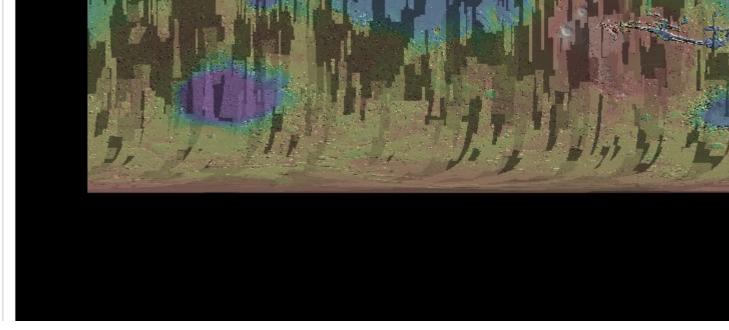


|Home |Contact | I



2348 0000 🕶 Download Latitude, ON Longitude, OE -82.000 144.000 HRSCview data explorer Footprint map All inseges C Archive DTMs Footprint scale, km/pix 30 🔻 Image mode O Nadir O DTM ○ Elevation □ Contours Colour: O Mars-like O Raw O Stretched O Enhanced ○ Ratio □ Substitute IR Image scale, m/pix 200 🔻 Perspective view Exaggeration Direction North ▼ 720x360 View size Update view

Here we find a list of all images available of our coordinates



Downloading what?



Planetology and Remote Sensing

Deutsches Zentrum für Luft-DLR und Raumfahrt e.V.

1 night to download!

You're not able to do

Home | Contact | Impressum

Institute of Geosciences

- How to use HRSCview
- Frequently asked questions
- Data usage policy
- Mars Express and HRSC
- FUB Planetology and Remote Sensing
- DLR Institute for Planetary Research
- ESA Planetary Science Archive

Home » HRSCviev » HRSC science data product

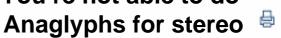
HRSC image 2348_0000

View image footprint

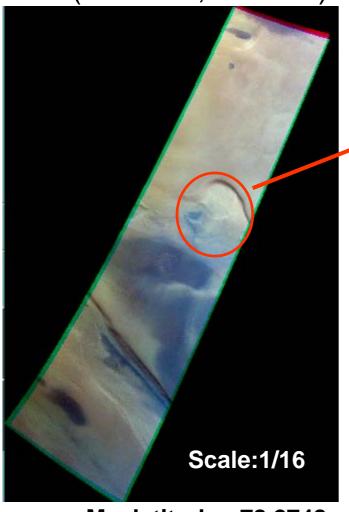
Product description

Please see the data usage policy for how to reference the data in publications.

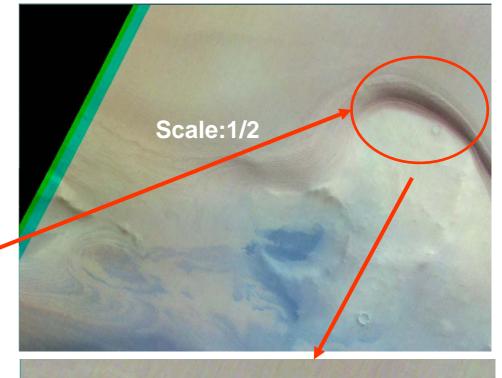
Channel	Resolution, m/pix	Dimensions, pix	Download (level 2)	Download (level 3)	Download (level 4)
Nadir (panchromatic)	12.5	19152x30720	H2348_0000_ND2.IMG	H2348_0000_ND3.IMG	
Infra-red	50.0	4788×7680	H2348_0000_IR2.IMG	H2348_0000_IR3.IMG	
Red	50.0	4788×7680	H2348_0000_RE2.IMG	H2348_0000_RE3.IMG	
Green	50.0	4788×7680	H2348_0000_GR2.IMG	H2348_0000_GR3.IMG	
Blue	50.0	4788×7680	H2348_0000_BL2.IMG	H2348_0000_BL3.IMG	
Photometry 1				H2348_0000_P12.IMG	
Photometry 2			???	H2348_0000_P22.IMG	
Stereo 1				H2348_0000_S12.IMG	
Stereo 2				H2348_0000_S22.IMG	
Elevation	200.0	1197×1920			

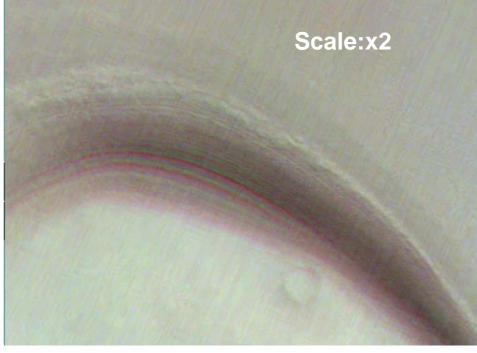


RGB from
HRSC2348 at different scales
(with xvd, Level 3)

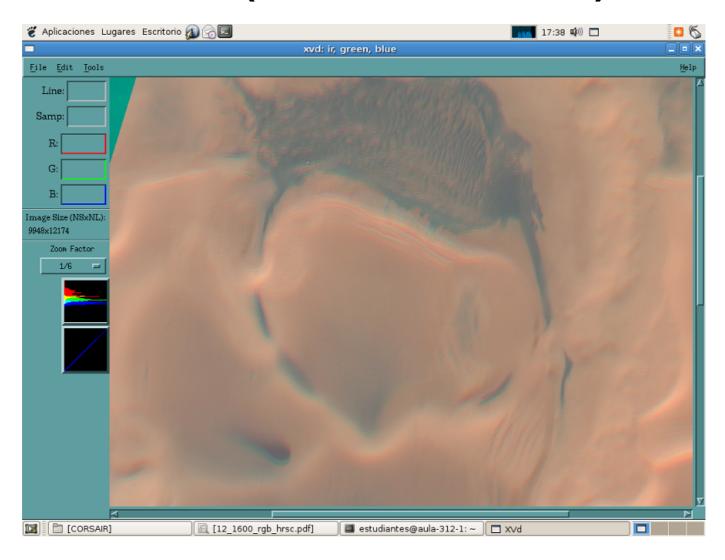


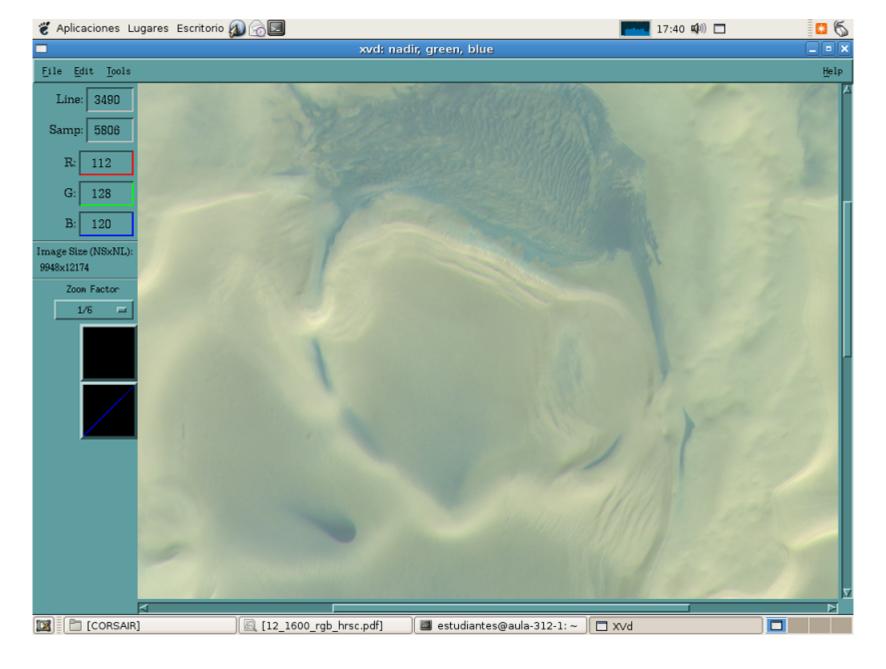
Maxlatitude=-78.2748
Minlatitude=-84.9491
Westernmost_Long=129.197



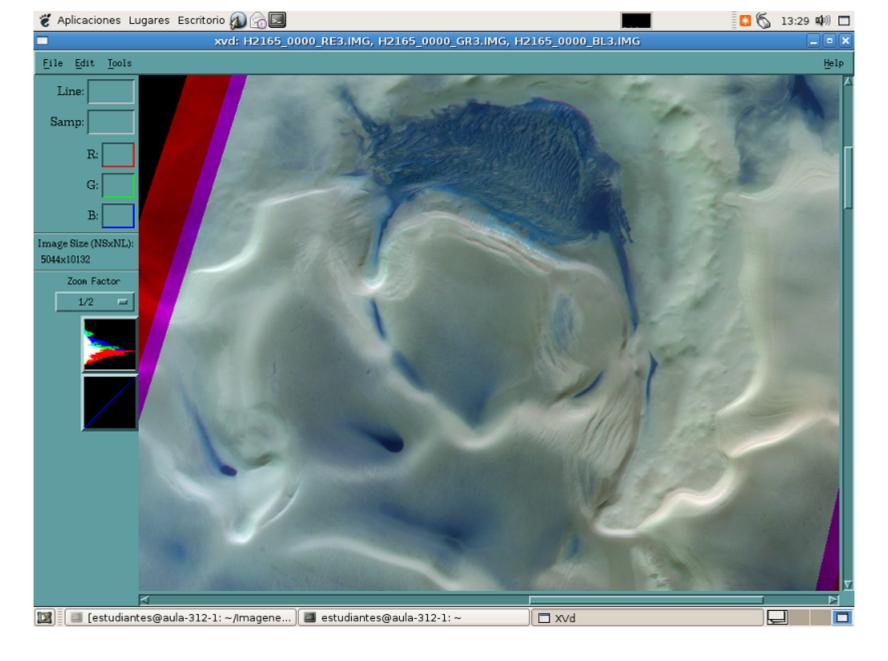


HRSC (with xvd, Level 2)



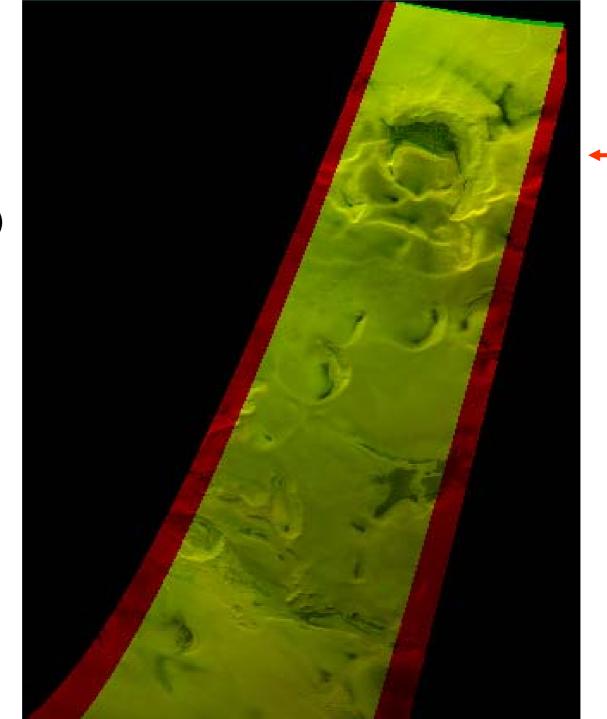


nadir, G, B of 2165 (higher resolution but 'cheating')



R,G,B of 2165, Level 3

R + G (Level 3)
No anaglyph





Further projects

- To continue handle Mars Express data (run software, make scripts and so on)
- So, send a lot of emails to Angelo ©
- Use the available data for the different instruments of Mars Express to our particular research field interest:
 - Andrea: Exobiology and paleoclimatology
 - (e.g. Laskar et. Al, 2004)
 - Esmeralda: Water in the Solar System

• **GET A NEW PC** !!!!