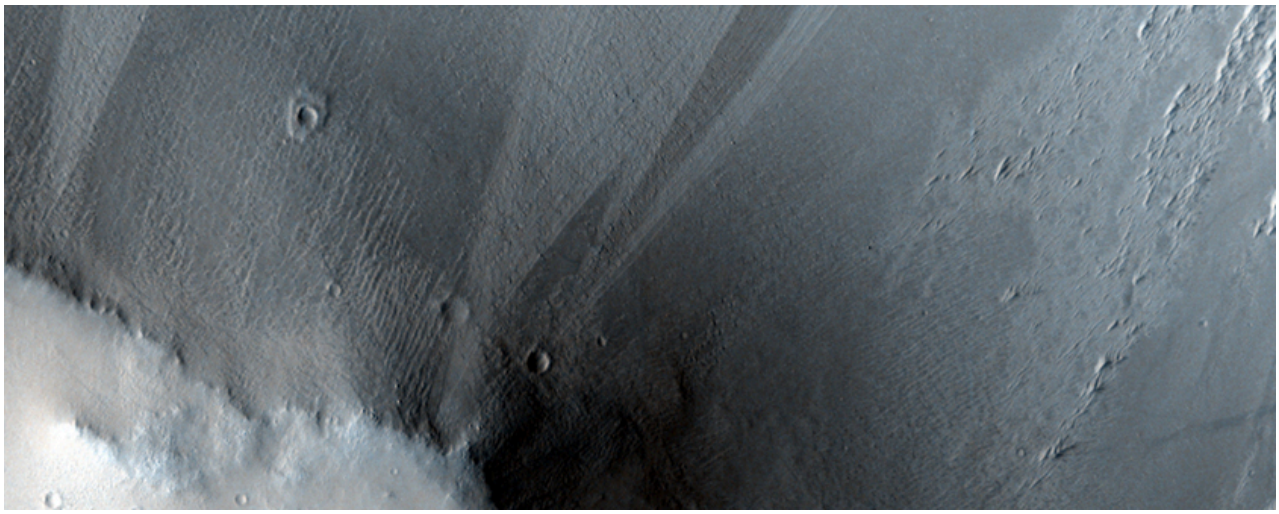

NASA/JPL-Caltech/UArizona

# Meander and Tributary of Scamander Vallis

ESP_011289_1950 Science Theme: Fluvial Processes

Dutch French Greek Italian Portuguese Spanish

Scamander Vallis is a winding, degraded valley network in the Northern Hemisphere of Mars. Visible here are several bends, or meanders, in the valley. The bottom of the valley contains dunes, and the scene is speckled with small impact craters.

**WALLPAPER**
1280
1920
2560

The walls of the valley have slope streaks ranging in color from dark to light. Slope streaks are proposed to form by avalanching dust and to evolve by fading or brightening over time. Thus, the slope streaks in Scamander Vallis likely formed at different times.

Across the center of image, there are some dark streaks that go across the valley walls; these are probably dust devil tracks. As dust devils (mini wind funnels) move across the surface, they stir up dust and leave behind dark trails.

**Acquisition date**
23 December 2008

**Local Mars time**
15:48

**Latitude (centered)**
14.625°

**Longitude (East)**
29.049°

**Spacecraft altitude**
276.8 km (172.0 miles)

**Original image scale range**
55.7 cm/pixel (with 2 x 2 binning) so objects ~167 cm across are resolved

**Map projected scale**
50 cm/pixel and North is up

**Map projection**
Equirectangular

**Emission angle**
5.6°

**Phase angle**
52.4°

**Solar incidence angle**
58°, with the Sun about 32° above the horizon

**Solar longitude**
178.5°, Northern Summer

**For non-map projected images**
North azimuth: 97°
Sub-solar azimuth: 357.3°

**JPEG**
Black and white
map projected non-map

IRB color
map projected non-map

Merged IRB
map projected

Merged RGB
map projected

RGB color
non-map projected

**JP2**
Black and white
map-projected (215MB)

IRB color
map-projected (84MB)

**JP2 EXTRAS**
Black and white
map-projected (107MB)
non-map (108MB)

IRB color
map projected (33MB)
non-map (83MB)

Merged IRB
map projected (193MB)

Merged RGB
map-projected (185MB)

RGB color
non map (80MB)

**ADDITIONAL INFORMATION**
B&W label
Color label
Merged IRB label
Merged RGB label
EDR products
HiView

**NB**
IRB: infrared-red-blue
RGB: red-green-blue
About color products (PDF)

Black & white is 5 km across; enhanced color about 1 km
For scale, use JPEG/JP2 black & white map-projected images

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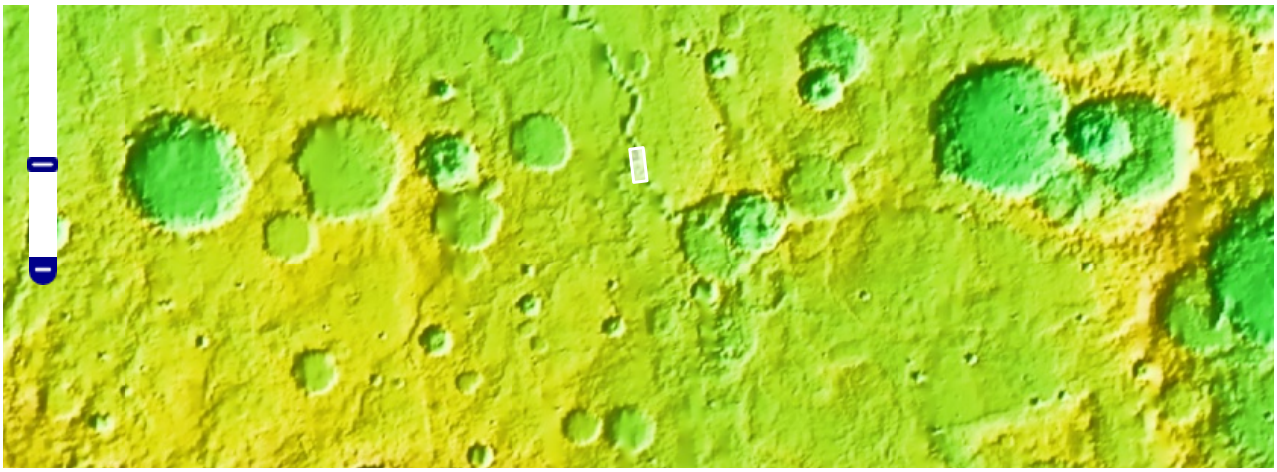
**POSTSCRIPT**
NASA's Jet Propulsion Laboratory, a division of the California Institute of Technology in Pasadena, Calif., manages the Mars Reconnaissance Orbiter for NASA's Science Mission Directorate, Washington. The HiRISE camera was built by Ball Aerospace and Technology Corporation and is operated by the University of Arizona.



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