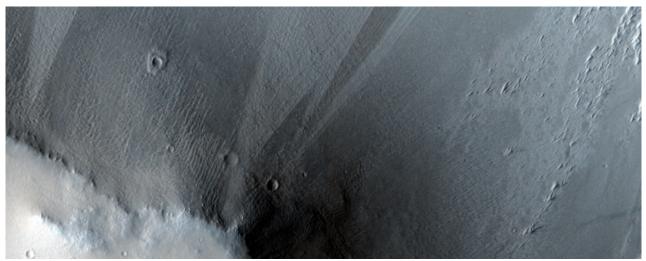


## About Catalog Outreach Science Updates

Search

Anaglyphs DTM HiView HiWish Map Press Science Nuggets Special Releases Stereo Pairs Select a language ▼

Home / ESP\_011289\_1950 /



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.

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.

**WALLPAPER** 

1280

1920

2560

**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

NΒ

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

**USAGE POLICY** 

All of the images produced by HiRISE and accessible on this site are within the public domain: there are no restrictions on their usage by anyone in the public, including news or science organizations. We do ask for a credit line where

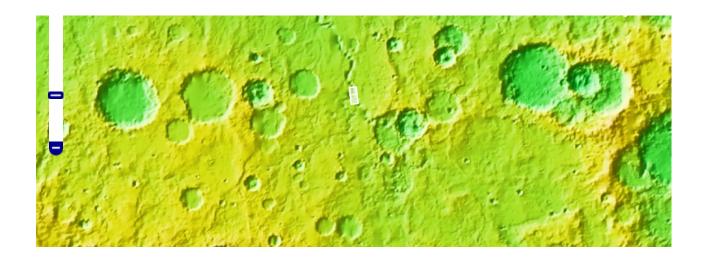
possible:

Arizona.

NASA/JPL-Caltech/UArizona

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



Advanced Search Home About Captions Contact Catalog Outreach FAQ

Image Usage Policy Science

Updates

4 Q&A HiCards

Anaglyphs DTM HiClips HiView HiFlyers HiWish HiPOD

Мар Made with HiRISE Press MarsPoetica

Social Media Map Science Nuggets

Special Releases The BeautifulMars eBook Series Stereo Pairs The BeautifulMars Podcast

HiKERs Our Volunteers

Camera Specs **CTX Directory PDS** Directory Science Themes Software

Lunar & Planetary Laboratory

PIRL

College of Science University of Arizona

MRO NASA/JPL Planet Four













High Resolution Imaging Science Experiment HiRISE Operations Center 1541 E. University Blvd Tucson, Arizona 85721

© 2025 Arizona Board of Regents