Atlas of Mars Web Links

Geology of Mars

Geologic Map of Mars by Tanaka et al., 2014 (U.S. Geological Survey Scientific Investigations Map 3292).

Geologic maps by MC number, as plotted from the Tanaka et al., 2014 map for The Atlas of Mars. *Available on Resources page for the Atlas of Mars*

Geographic Feature Names on Mars

Gazetteer of Planetary Nomenclature at the U.S. Geological Survey. Includes origin of feature names and maps showing extent of named features.

Index to nomenclature maps of each of the thirty MC maps. These show all names, including small features not plotted in The Atlas of Mars, on a combined MOLA/THEMIS daytime IR base.

THEMIS Image Mosaics of Mars

THEMIS daytime infrared image mosaics used to generate MC maps in The Atlas of Mars at 400 m/pixel are presented with the MOLA hillshade maps as in the Atlas of Mars, here without nomenclature overlay. *Available on Resources page for the Atlas of Mars*

For those interested in even more detail, the U.S. Geological Survey is producing controlled THEMIS daytime infrared and nighttime infrared mosaics at 100 m/pixel for each MC map (note that these files are very large, several hundred MB in size).

Additional Maps of Mars

Digital Museum of Planetary Mapping includes many historic maps of Mars.

Images of Mars

General Image Access Tools

These tools can assist in finding images of a particular feature or region of Mars via a map or coordinate search. For access to an image with a known ID number, these or the individual mission sites are helpful. Some of the mission sites are also useful for browsing types of features or regions of Mars.

THEMIS web site at Arizona State University includes Image Galleries of images from all Mars orbiter missions since Viking.

Planetary Image Locator Tool (PILOT) at the U.S. Geological Survey allows searches of all Mars images.

Access to images, listed by mission under 'Data Portal' at the PDS Cartography and Imaging Science Node. Links to other image exploration tools are here also.

THEMIS

THEMIS Image Explorer at Arizona State University.

CTX

Context Camera Image Explorer at Arizona State University.

HiRISE

HiRISE web site at University of Arizona has a catalog and separate pages for high-resolution images.

HiView application for viewing HiRISE images.

HiRISE Image Explorer at Arizona State University.

HRSC

The Mars Express HRSC/SRC Image Explorer at Arizona State University.

Mosaic maps and access to HRSC press releases (some older press releases are cited in The Atlas of Mars) at Freie Universitaet Berlin.

MOC

Malin Space Science Systems includes Images page that gives access to images from Mars Orbiter Camera (MOC) and the Curiosity rover.

The Mars Orbiter Camera Image Explorer at Arizona State University.

Tools for modification and analysis

JMARS (Java Mission-planning and Analysis for Remote Sensing) is an online GIS system developed by Arizona State University that runs on most computer platforms and provides access (with an internet connection) to many datasets for Mars and other bodies. Many of the image mosiacs in the Atlas of Mars are JMARS products.

Robotic Spacecraft Missions to Mars

Web pages for NASA missions listed by name.

Missions of the European Space Agency (ESA) listed by name.

The Indian Space Research Organisation home page, including descriptions of missions. Images and other data are accessible at the ISRO Science Data Archive (ISDA).

The Roscosmos web site includes information on both Russian and Soviet space missions.

Website of the Emirates Mars Mission (Hope) including images and data at the UAE Space Agency.

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Ken Coles