



RESOURCES FOR EARTH AND PLANETARY RESEARCH

Introduction

This is a guide to locating resources for Earth and planetary research. Most products are free and available for download. It is your responsibility to check for any usage restrictions. Products include maps, imagery, and data.

Every effort has been made to ensure the information in this guide is accurate. Updates and improvements will be made on a continual basis. Any discrepancies or faulty links should be brought to the attention of:

Tom Watters
Center for Earth and Planetary Studies
National Air and Space Museum
Smithsonian Institution

watterst@si.edu

Last revised on February 14, 2023

MERCURY

National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [MESSENGER: Mission to Mercury](#)
- [PDS Imaging Node](#)
 - [Planetary Image Atlas](#)
 - [MESSENGER Data Portal](#)
- [PDS Geosciences Node: MESSENGER](#)
 - [Mercury Orbital Data Explorer](#)
 - [Mercury Footprint Coverage Explorer](#)
 - [MESSENGER Quick Map](#)

Lunar and Planetary Institute

- [Mercury Map Catalog](#)
- [NASA Regional Planetary Image Facility](#)

Astrogeology Science Center

- [Map-a-Planet](#)
- [Planetary Map Index](#)
- [Planetary Geologic Mapping Program](#)
- [Messenger Global Mosaic](#)
- [PDS Imaging Node Annex](#)
- [Planetary GIS Web Server](#)
- [Planetary Image Locator Tool \(PILOT\)](#)
- [Gazetteer of Planetary Nomenclature](#)

USGS Publications Warehouse

MESSENGER Mission site at JHUAPL

- [Science Images](#)
- [Global Mosaics](#)
- [Mercury in Google Earth](#)

Space Exploration Resources

- [Mercury](#)
 - [Mariner 10 Image Archive](#)

European Space Agency

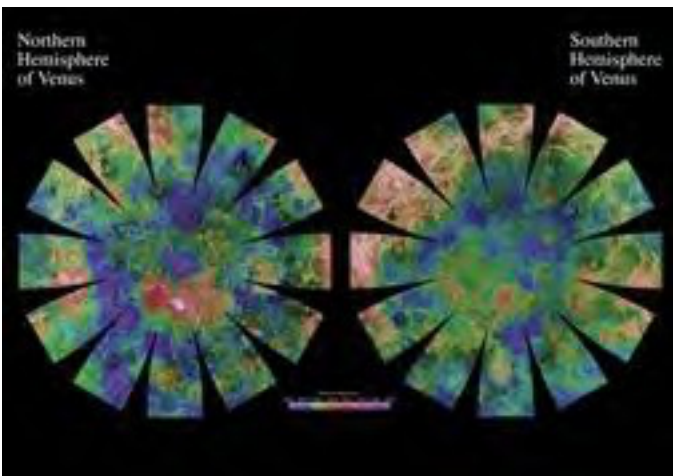
- [BepiColombo](#)
- [ESA Space in Videos: Mercury](#)
- [ESA Space in Images: Mercury](#)

Japan Aerospace Exploration Agency

- [BepiColombo](#)



VENUS



National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [Pioneer Venus Project](#)
- [Pioneer Venus Gallery](#)
- [PDS Imaging Node](#)
 - [Planetary Image Atlas](#)
- [PDS Geosciences Node](#)
 - [Venus Orbital Data Explorer](#)

Astrogeology Science Center

- [Interactive GIS Map of Venus](#)
- [Planetary GIS Web Server](#)
- [Planetary Maps and Globes](#)
- [Map-a-Planet](#)
- [Planetary Image Locator Tool \(PILOT\)](#)
- [Gazetteer of Planetary Nomenclature](#)
- [Planetary Geologic Mapping Program](#)
- [Planetary Map Index](#)

USGS Publications Warehouse

Lunar and Planetary Institute

- [Venus Crater Database](#)
- [NASA Regional Planetary Image Facility](#)

European Space Agency

- [Venus Express](#)
- [Venus Express Data Archive](#)
- [ESA Space in Videos: Venus](#)
- [ESA Space in Images: Venus](#)

Japan Aerospace Exploration Agency

- [Venus Climate Orbiter](#)

EARTH

USDA Farm Service Agency

- [Aerial Imagery Programs](#)

United States Geological Survey

- [The National Map](#)
- [Historical Maps from Library of Congress](#)
- [National Geologic Map Database](#)
- [USGS Publications Warehouse](#)
- [Landsat Image Mosaic of Antarctica](#)

Earth Resources Observation and Science Center

- [Aerial Photography](#)
- [Satellite Imagery](#)
- [Elevation Products](#)
- [Land Cover Products](#)
- [Digitized Maps](#)
- [Land Processes DAAC](#)
- [Landsat Image Gallery](#)
- [EROS Image Gallery](#)
- [National Satellite Land Remote Sensing Data Archive](#)

NOAA National Environmental Satellite, Data, and Information Service

- [Satellite Imagery and Data](#)
- [GOES High Resolution](#)

NOAA Environmental Visualization Laboratory

- [Image Gallery](#)
- [NOAA View](#)

National Snow and Ice Data Center

- [Antarctic Glaciological Data Center](#)
- [Atlas of the Cryosphere](#)
- [MODIS Mosaic of Antarctica \(MOA\) Image Map](#)
- [NSIDC Data on Google Earth](#)
- [Glacier Photograph Collection](#)
- [NASA DAAC at NSIDC](#)
- [Antarctic Ice Shelf Image Archive](#)

National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [National Space Science Data Center: Planetary](#)
- [Visible Earth](#)
- [Earth Observatory](#)
- [NASA Earth Observations](#)
- [Gateway to Astronaut Photography](#)
- [Scientific Visualization Studio](#)



EARTH



National Aeronautics and Space Administration

- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [EOS Data and Information System](#)
- [Goddard Earth Sciences Data and Information Services Center](#)

Google Earth

European Space Agency

- [Observing the Earth](#)
 - [Image Archive](#)
- [ESA Space in Images: Observing the Earth](#)
- [ESA Space in Videos: Observing the Earth](#)
- [Earth Observation Link](#)
- [Earthnet Online](#)

Japan Aerospace Exploration Agency

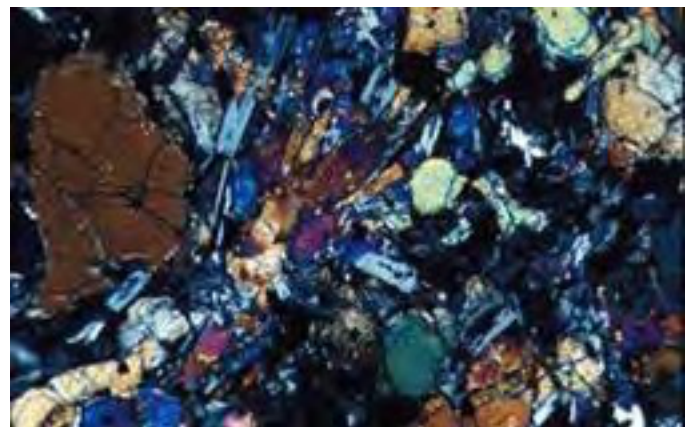
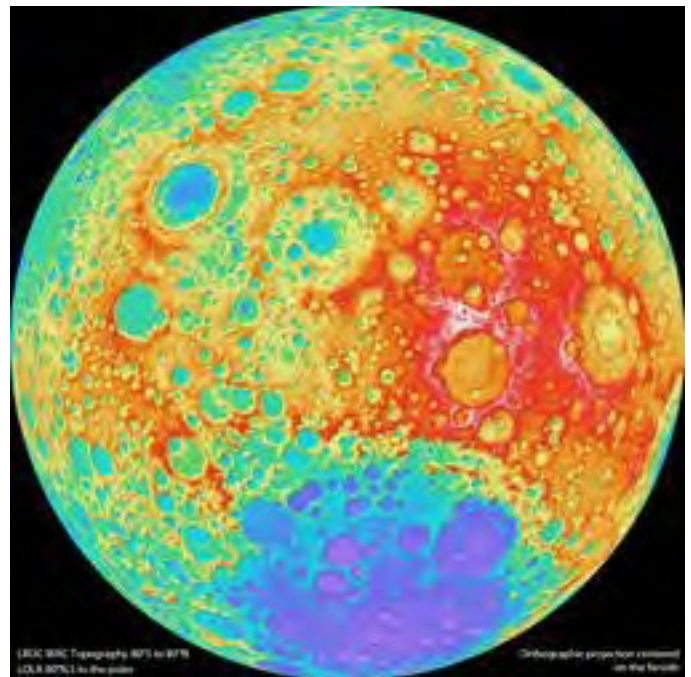
- [JAXA Missions](#)
- [JAXA Digital Archives: Earth Observations](#)
- [EORC Satellite Data Search/Order System](#)
- [JAXA/EORC Tropical Cyclone Database](#)
- [JAXA Global Rainfall Watch](#)



MOON

National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [PDS Imaging Node](#)
- [PDS Geosciences Node](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [The Apollo Missions](#)
- [Apollo Lunar Surface Journal](#)
- [Apollo Flight Journal](#)
- [Astronaut Still Photography During Apollo](#)
- [JSC Digital Image Collection](#)
- [Lunar Reconnaissance Orbiter Project site](#)
- [GRAIL Mission](#)
- [LADEE Mission](#)
- [Astromaterials Acquisition and Curation Office](#)
 - [Lunar Rocks and Soils from Apollo](#)



Moon Mineralogy Mapper at COFC

GRAIL MoonKAM at UCSD

Astrogeology Science Center

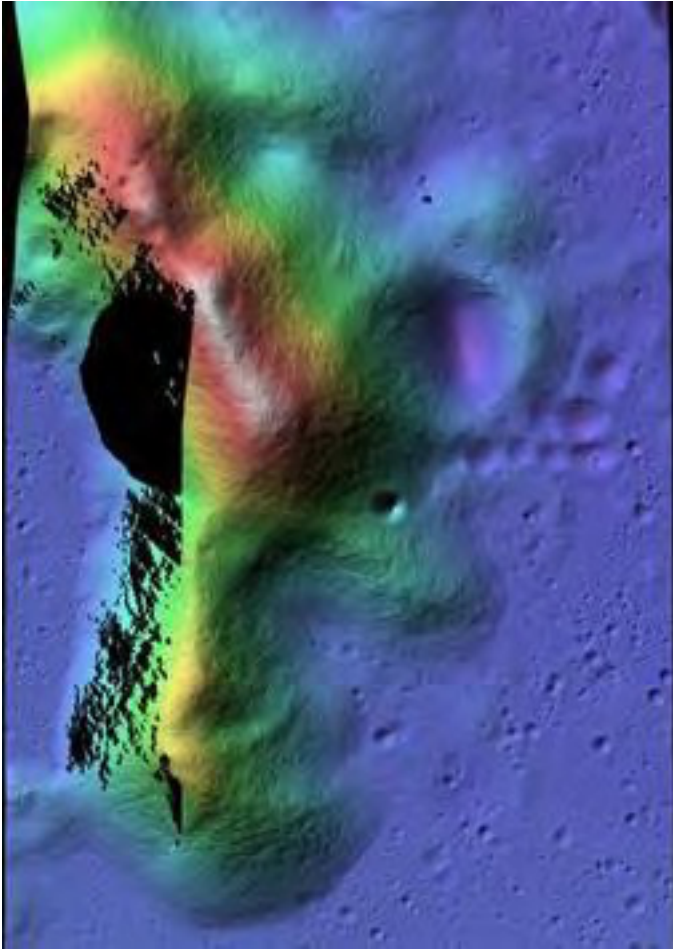
- [Planetary GIS Web Server](#)
- [Interactive GIS Map of the Moon](#)
- [Planetary Maps and Globes](#)
- [Map-a-Planet](#)
- [Planetary Image Locator Tool \(PILOT\)](#)
- [Gazetteer of Planetary Nomenclature](#)
- [Planetary Geologic Mapping Program](#)
- [Planetary Map Index](#)
- [Apollo Anaglyph 3D-Images](#)
- [Apollo Landing Panoramas](#)
- [Apollo Traverse Maps](#)
- [LRO DTM's and Mosaics](#)
- [Clementine NIR Global Map](#)
- [Zond8 Lunar Consortium Historical Data Archive](#)
- [Lunar Orbiter Digitization Project](#)

USGS Publications Warehouse

U.S. Naval Research Laboratory

- [Clementine Mission](#)

MOON



Space Exploration Resources

- [Clementine Lunar Images](#)
- [Lunar Orbiter Images](#)
- [Apollo Image Archive](#)
- [March to the Moon Image Gallery](#)
- [Wilhelm's Geologic History of the Moon](#)
- [Digital Petrographic Slide Collection](#)
- [Lunar Reconnaissance Orbiter Camera](#)

Lunar and Planetary Institute

- [Lunar Mission Summaries](#)
- [Apollo - Era Documents](#)
- [ALSEP Documents](#)
- [Lunar Samples](#)
- [Lunar Images and Maps](#)
 - [Atlas of Lunar Sinuous Rilles](#)
 - [Lunar Sample Atlas](#)
 - [Apollo Surface Panoramas](#)
 - [Lunar Surface Flyovers](#)
 - [LPI Clementine Mapping Project](#)
 - [Lunar Orbiter Photo Gallery](#)
 - [Digital Lunar Orbiter Photographic Atlas of the Moon](#)
 - [Consolidated Lunar Atlas](#)
 - [Apollo Image Atlas](#)
 - [Lunar Map Catalog](#)
 - [Ranger Photographs of the Moon](#)
 - [South Pole - Aitken Basin Landing Site Database](#)
- [Lunar Surface](#)
- [Lunar Meteorites](#)
- [Moon 101 Lecture Series](#)
- [Exploration Strategies](#)
- [Constellation Hardware](#)
- [Landing Site Studies](#)
- [Computational Tools](#)
- [Center for Lunar Science and Exploration](#)
- [NASA Regional Planetary Image Facility](#)

European Space Agency

- [SMART-1](#)
- [SMART-1 Science Archive](#)
- [ESA Space in Videos: Lunar](#)
- [ESA Space in Images: Lunar](#)

Japan Aerospace Exploration Agency

- [KAGUYA \(SELENE\) Mission](#)
- [SELENE Data Archive](#)
- [KAGUYA 3D GIS](#)
- [JAXA Digital Archives: Moon](#)

Indian Space Research Organisation

- [Chandrayaan-1](#)



MARS - AND ITS MOONS

National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [PDS Imaging Node](#)
 - [PDS Marsviewer](#)
- [PDS Geosciences Node](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [Mars Exploration Program](#)
- [MOLA Homepage](#)

Astrogeology Science Center

- [Interactive GIS Map of Mars](#)
- [Planetary GIS Web Server](#)
- [Planetary Maps and Globes](#)
- [Planetary Image Locator Tool \(PILOT\)](#)
- [Map-a-Planet](#)
- [Gazetteer of Planetary Nomenclature](#)
- [Planetary Geologic Mapping Program](#)
- [Planetary Map Index](#)
- [Mars MER Microscopic Imager Merged Products](#)
- [Mars MER Microscopic Imager Surface Findings](#)
- [Opportunity MI Pancam Merged Products](#)
- [Spirit MI Pancam Merged Products](#)
- [Mars Science Laboratory - Landing Site Selection](#)
- [Mars THEMIS Controlled Mosaics and Preliminary Smithed Kernels](#)
- [Mars Viking Hemisphere Point Perspectives](#)
- [Mars Global Digital Mosaic MDIM 2.1](#)
- [Mars-Ice Project](#)
- [Mars Dunes](#)

Space Exploration Resources

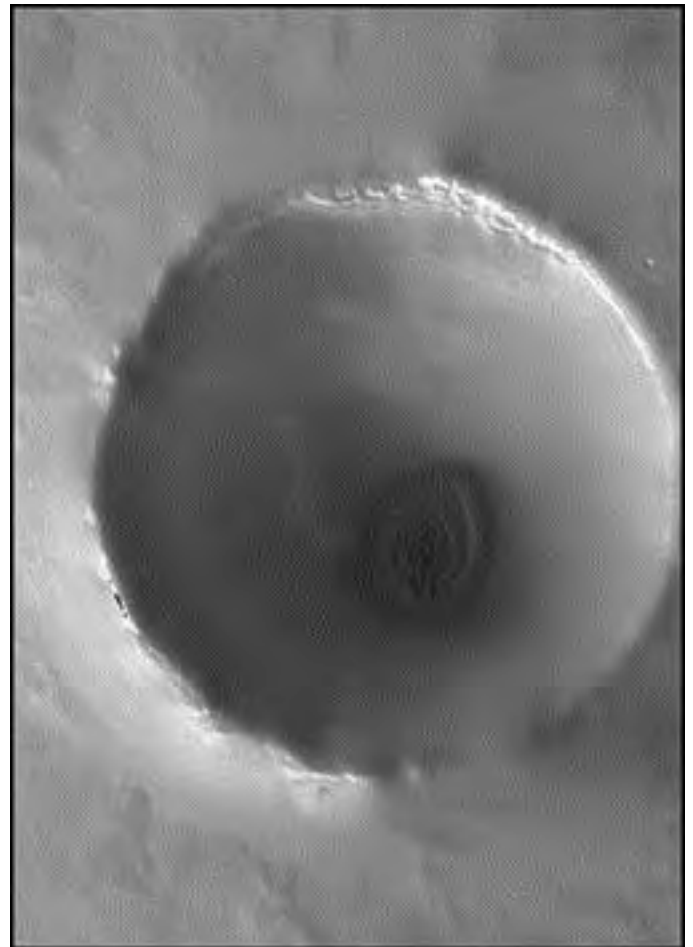
- [Viking: Lava Flows, Channels & Volcanoes](#)
- [Mariner 6 and 7 Images](#)
- [Valles Marineris from THEMIS Infrared Images](#)

Laboratory for Atmospheric and Space Physics

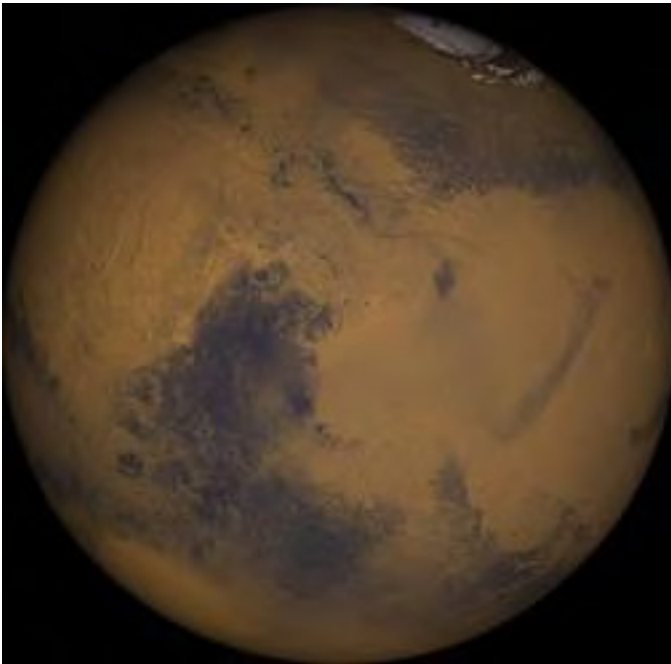
- [Data Products](#)
- [MAVEN Mission](#)

Phoenix Mars Lander Site at University of Arizona

CRISM Site at JHUAPL



MARS - AND ITS MOONS



USGS Publications Warehouse

Lunar and Planetary Institute

- [Mars Map Catalog](#)

Mars Space Flight Facility

- [Mars Odyssey: THEMIS](#)
 - [Maps of all Mars Images](#)
 - [Mars Global Datasets](#)
- [Mars Exploration Rovers: Mini-TES](#)
- [Mars Global Surveyor: TES](#)
- [JMARS](#)
- [Mars Image Explorer](#)

Malin Space Science Systems

- [Captioned Mars Image Archive](#)
- [MOC Image Gallery](#)
- [MGS MOC wide Angle Map of Mars](#)
- [MOC Geodesy Mosaic](#)

HubbleSite

HiRISE Site

- [Image Catalog](#)
- [Captioned Images](#)
- [Anaglyphs](#)
- [Stereo Pairs](#)
- [Digital Terrain Models](#)
- [HiView: Data Explorer and Image Viewing App](#)

European Space Agency

- [Mars Express](#)
- [Mars Express Data Archive](#)
- [Robotic Exploration of Mars: ExoMars](#)
- [Global Maps of Mars](#)
- [ESA Space in Images: Mars](#)
- [ESA Space in Videos: Mars](#)

Indian Space Research Organisation

- [Mars Orbiter Mission](#)

ASTEROIDS

National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [PDS Imaging Node](#)
- [PDS Geosciences Node](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [Galileo Legacy Site](#)
- [Dawn](#)
- [Astromaterials Acquisition and Curation Office](#)
 - [Hayabusa Asteroid Itokawa Samples](#)

Astrogeology Science Center

- [Gazetteer of Planetary Nomenclature](#)
- [Planetary Geologic Mapping Program](#)
 - [Vesta](#)

Lunar and Planetary Institute

Space Exploration Resources

- [NEAR - EROS Images](#)

HubbleSite

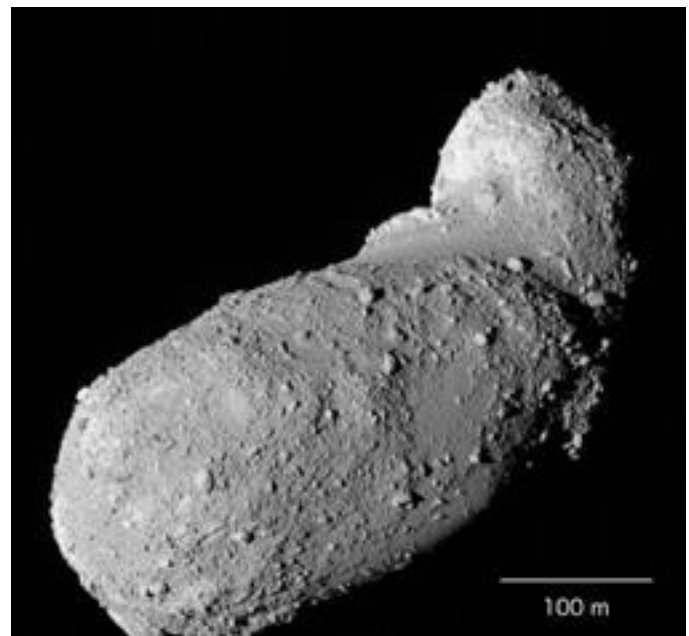
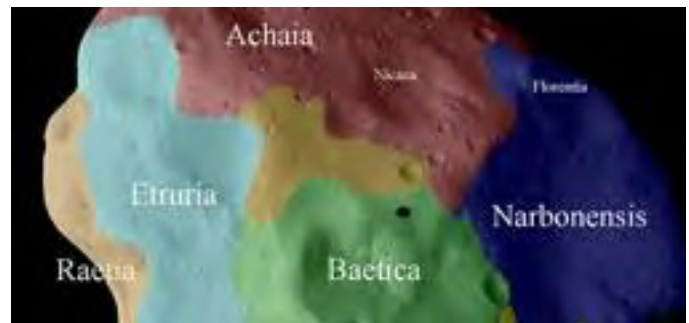
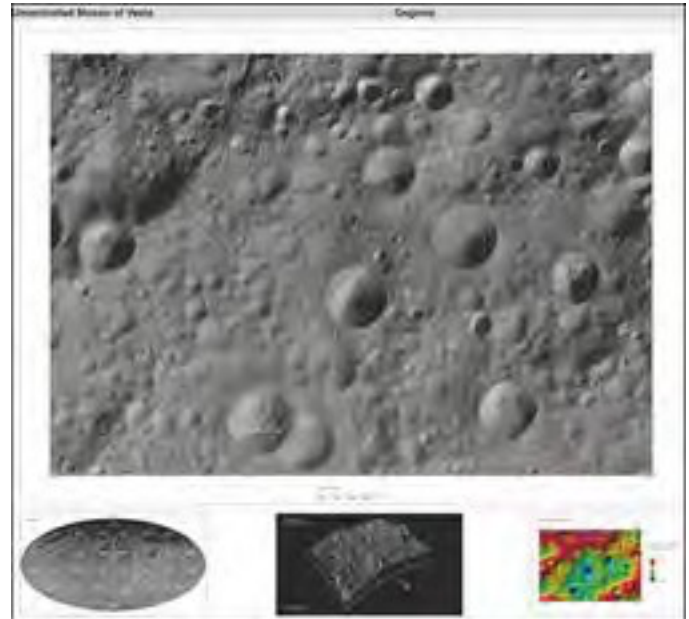
Near Earth Rendezvous Site at JHUAPL

European Space Agency

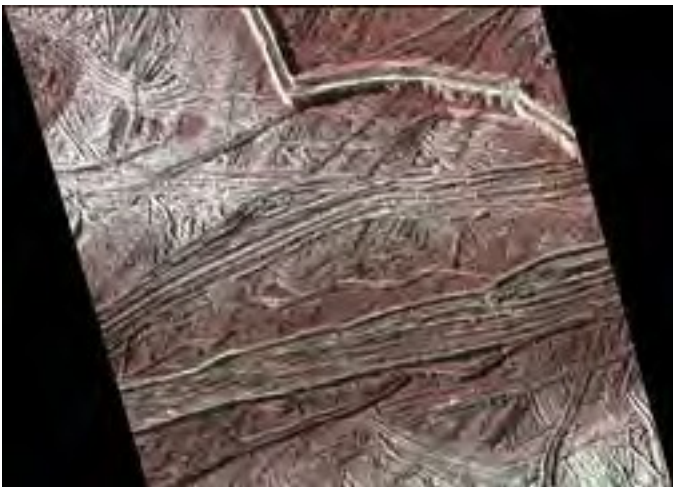
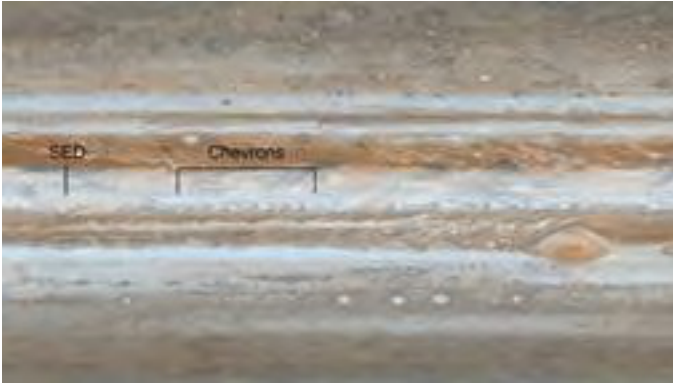
- [Rosetta](#)
- [Rosetta Science Operations Centre](#)
- [Rosetta Data Archive](#)
- [ESA Space in Images: Asteroids](#)
- [ESA Space in Videos: Asteroids](#)

Japan Aerospace Exploration Agency

- [Hayabusa: The Final Approach](#)
- [Hayabusa Project Science Data Archive](#)
- [Hayabusa 2 Project](#)
- [JAXA Digital Archives: Asteroid](#)



JUPITER - AND ITS MOONS



National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [PDS Imaging Node](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [Voyager: The Interstellar Mission](#)
- [Galileo Legacy Site](#)
- [Cassini Solstice Mission](#)
- [Mars Global Surveyor](#)
- [Juno](#)

Juno Mission Site at SwRI

New Horizons Mission Site at JHUAPL

Lunar and Planetary Institute

- [Ganymede Crater Database](#)
- [Callisto Crater Database](#)

Cassini Imaging Central Laboratory for Operations

Astrogeology Science Center

- [Planetary GIS Web Server](#)
- [Planetary Maps and Globes](#)
- [Map-a-Planet](#)
- [Planetary Image Locator Tool \(PILOT\)](#)
- [Gazetteer of Planetary Nomenclature](#)
- [Planetary Geologic Mapping Program](#)
- [Planetary Map Index](#)
- [Callisto Voyager and Galileo Global Mosaics](#)
- [Europa Voyager Galileo Global Mosaics](#)
- [Ganymede Voyager Galileo Global Mosaics](#)
- [Io Voyager Galileo Global Mosaics](#)

USGS Publications Warehouse

HubbleSite

European Space Agency

- [ESA Space in Videos: Jupiter](#)
- [ESA Space in Images: Jupiter](#)

SATURN - AND ITS MOONS

National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [PDS Imaging Node](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [Voyager: The Interstellar Mission](#)
- [Cassini Solstice Mission](#)
- [PDS Imaging Node](#)



Astrogeology Science Center

- [Map-a-Planet](#)
- [Planetary Image Locator Tool \(PILOT\)](#)
- [Gazetteer of Planetary Nomenclature](#)
- [Planetary Map Index](#)
- [Saturn Satellites Voyager Global Maps](#)

USGS Publications Warehouse

Lunar and Planetary Institute

Cassini Imaging Central Laboratory for Operations

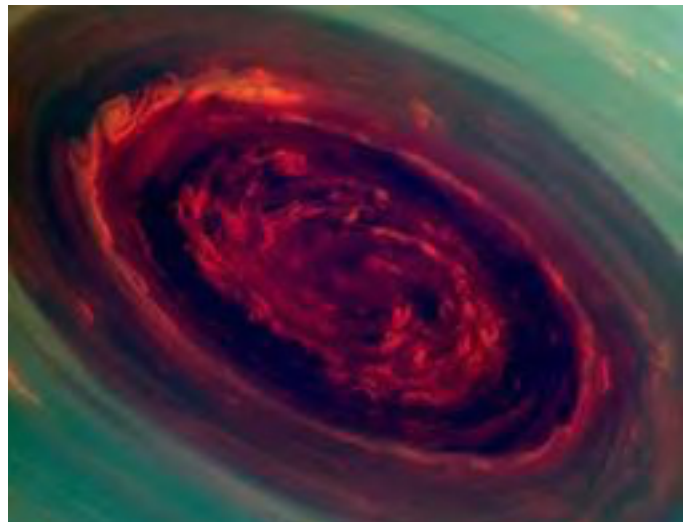
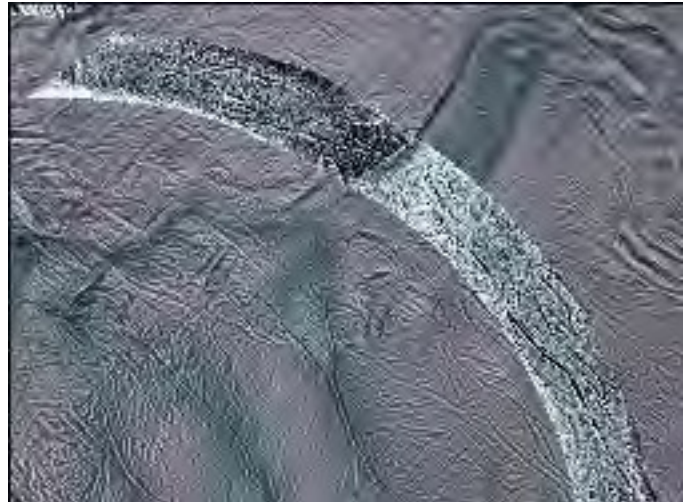
Space Telescope Science Institute

- [Hubble Space Telescope](#)
- [Data Archive](#)

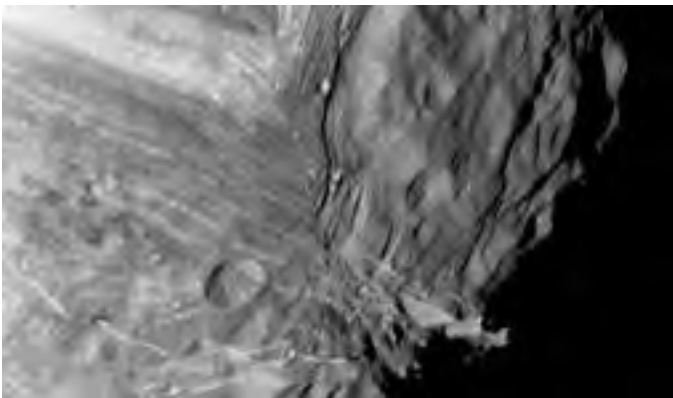
HubbleSite

European Space Agency

- [ESA Science & Technology: Cassini-Huygens](#)
- [ESA Space in Videos: Saturn](#)
- [ESA Space in Images: Saturn](#)



URANUS - AND ITS MOONS



National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [PDS Imaging Node](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [Voyager: The Interstellar Mission](#)

Astrogeology Science Center

- [Planetary Image Locator Tool \(PILOT\)](#)

Lunar and Planetary Institute

Cassini Imaging Central Laboratory for Operations

Space Telescope Science Institute

- [Hubble Space Telescope](#)
- [Data Archive](#)

HubbleSite

NEPTUNE - AND ITS MOONS

National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [PDS Imaging Node](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [Voyager: The Interstellar Mission](#)

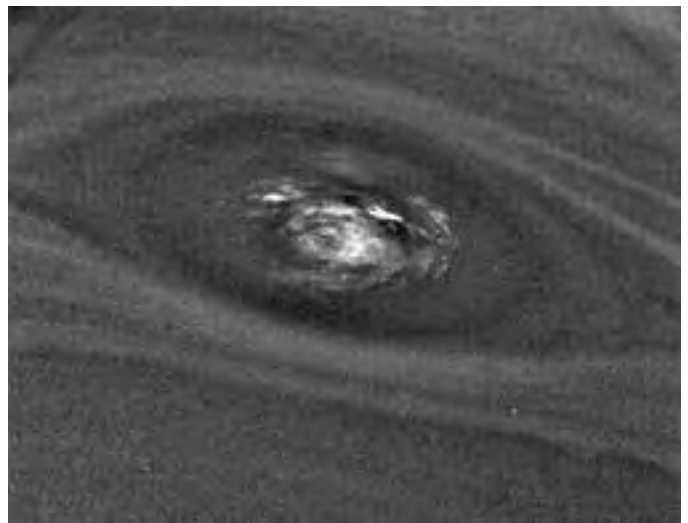
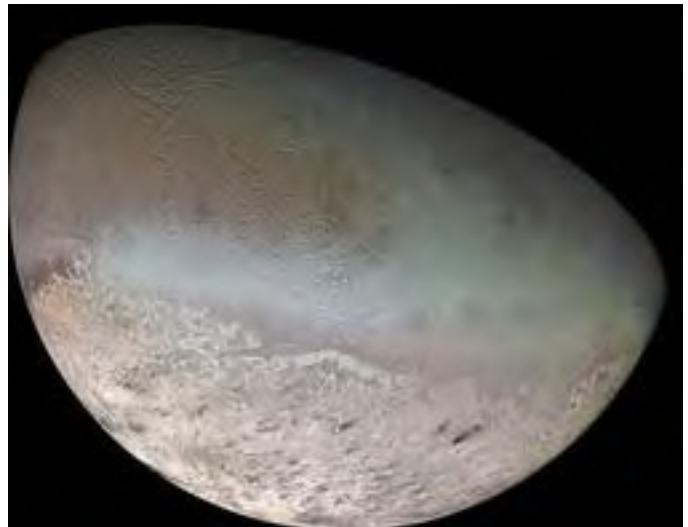
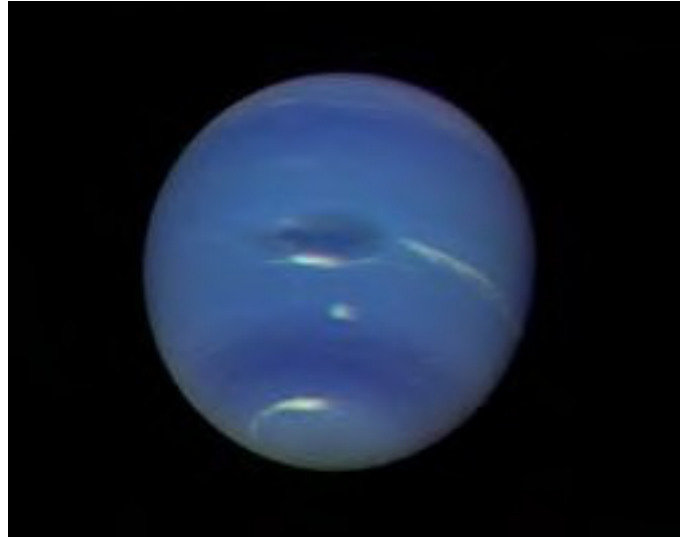
Lunar and Planetary Institute

Cassini Imaging Central Laboratory for Operations

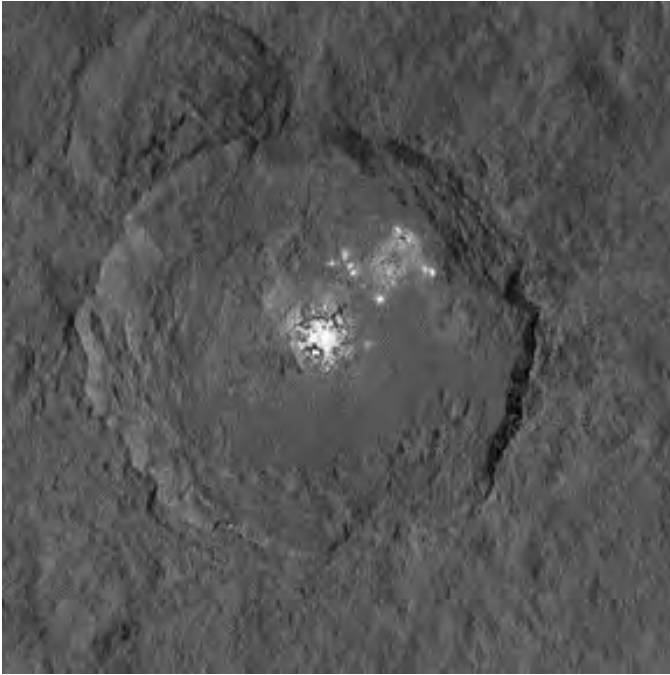
Space Telescope Science Institute

- [Hubble Space Telescope](#)
- [Data Archive](#)

HubbleSite



DWARF PLANETS (CERES & PLUTO – AND ITS MOONS)



National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [Dawn](#)
- [New Horizons](#)

New Horizons Mission Site at JHUAPL

Lunar and Planetary Institute

Astrogeology Science Center

- [Comets, Asteroids, and Dwarf Planets](#)
- [Gazetteer of Planetary Nomenclature](#)

Space Telescope Science Institute

- [Hubble Space Telescope](#)
- [Data Archive](#)

HubbleSite



COMETS

National Aeronautics and Space Administration

- [NASA's Photojournal](#)
- [Planetary Data System](#)
- [National Space Science Data Center: Planetary](#)
- [Scientific Visualization Studio](#)
- [JPL Apps](#)
- [NASA Goddard Space Flight Center on Flickr](#)
- [NASA Marshall Space Flight Center on Flickr](#)
- [NASA on Instagram](#)
- [NASA on Tumblr](#)
- [Galileo Legacy Site](#)
- [Stardust Mission](#)
- [Stardust-NExT](#)
- [Deep Impact Legacy Site](#)
- [EPOXI Mission Page](#)
- [New Horizons](#)
- [Astomaterials Curation](#)

Deep Impact Project Site at UMD

EPOXI Project Site at UMD

New Horizons Mission Site at JHUAPL

Space Telescope Science Institute

- [Hubble Space Telescope](#)
- [Data Archive](#)

HubbleSite

European Space Agency

- [ESA Science & Technology: Rosetta](#)
- [ESA Science & Technology: Giotto](#)
- [ESA Space in Images: Comet](#)
- [ESA Space in Video: Comet](#)

