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:

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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
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
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
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
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