



Geospatial Data and Mapping Websites

Need help?

If you need help finding, ordering, or using USGS products; or if you have any questions about USGS science, contact USGS Science Information Services at: Phone: 1-888-ASK-USGS (1-888-275-8747); Email or Live Chat: <http://www.usgs.gov/ask>

----- Primary Sources of FREE USGS Geospatial Data -----

The National Map <http://nationalmap.gov/>

Download data from eight base data themes for the entire U.S.: Elevation, Orthoimagery, Hydrography, Structures, Transportation, Geographic Names, Land Cover, and Boundaries. Additional products include digital US Topo maps and historical topographic maps. Available lidar bare earth derivatives are incorporated into the 1/9 arc-second elevation data.

The National Map Service List <http://viewer.nationalmap.gov/example/services/serviceList.html>

The National Map Bulk Download Applications <http://viewer.nationalmap.gov/apps/>

EarthExplorer* <http://earthexplorer.usgs.gov>

Download data from more than 180 collections that span over 70 years of coverage. Includes USGS satellite imagery, historical and recent aerial photography, orthoimagery (including high-res), elevation data, land cover products, lidar point cloud data, Digital Line Graphs (DLGs), and much more.

GloVis* <http://glovis.usgs.gov>

A quick search and order tool for aerial photography and satellite data (no orthoimagery). Less robust than EarthExplorer, but easier to search and more user-friendly. Download Landsat, ASTER, EO-1, MODIS, and TerraLook data products, as well as recent aerial photograph collections (NAPP and NHAP).

----- Additional FREE Geospatial Data from USGS & Partners -----

TerraLook* <http://terralook.cr.usgs.gov>

Georeferenced Landsat and Aster satellite images in JPEG format for users who don't want to use complicated software. Perfect for simple visual interpretation and to track changes over time. Download optional free software to perform very basic manipulations. The Landsat images are preselected for best views.

LandsatLook *

<http://landsat.usgs.gov/LandsatLookImages.php>

Full-resolution JPEGs of Landsat satellite images that are best used for image selection and simple visual interpretation. Available as thermal or natural color images with optional geographic reference. Not recommended for digital analysis.

Coastal & Marine Interactive Map Server

<http://coastalmap.marine.usgs.gov>

GIS data and metadata for past and current projects.

Data.gov

<http://www.data.gov>

Geospatial information from all levels of government.

Water Spatial Data <http://water.usgs.gov/maps.html>

Maps and GIS data for water related topics such as water use maps and data, watershed boundaries, NHD, streamflow records, and more.

Hazards Data Distribution System (HDDS)*

<http://hdds.usgs.gov/hazards-data-distribution-system-hdds>

View and download USGS datasets for national and international disasters including floods, hurricanes, and earthquakes.

Mineral Resources On-Line Spatial Data*

<http://mrdata.usgs.gov>

Regional and global geology, geochemistry, geophysics, and mineral resource maps and data.

USGS Quaternary Fault and Fold Database

<http://earthquake.usgs.gov/hazards/qfaults/>

Geologic, geomorphic, and geographic information for over 2,000 Quaternary faults in the U.S. Download shape files and Google Earth files.

National Geologic Map Database <http://ngmdb.usgs.gov>

Search over 90,000 maps and reports, including free digital maps and GIS map data. Primary themes are geology, geophysics, marine, energy resources, and natural hazards.

USGS Publications Warehouse* <http://pubs.usgs.gov>

Search bibliographic citations for USGS publications. Links to online sources for many publications, including maps.

Maps of America's Submerged Lands

<http://woodshole.er.usgs.gov/data/submergedlands>

USGS maps, reports, and digital data that depict the bathymetry, surficial geology, and/or subsurface structure of selected submerged U.S. areas. Mostly marine, but includes some lakes.

USGS Energy Data Finder

<http://energy.usgs.gov/Tools/EnergyDataFinderSplash.aspx>

Geospatial data related to oil & gas, coal, geochemistry, and geophysics. Good for base data in international locations.

Astrogeology MCTR GIS Lab

<http://astrogeology.usgs.gov/facilities/mrctr>

----- **Where to Get Digital (FREE) and Printed (Cost) Topographic Maps** -----

Free Digital US Topo Quadrangles in GeoPDF format (updated every 3 years)

- For individual maps, go to the USGS Store <http://store.usgs.gov> and Click "Map Locator & Downloader"
- For large blocks of maps, go to *The National Map Viewer* <http://nationalmap.gov/viewer.html>

Free Digital Historical Quadrangles

- The USGS Store <http://store.usgs.gov> (Click "Map Locator & Downloader"; GeoPDF format only)
- Historical Topographic Map Collection <http://geonames.usgs.gov/pls/topomaps> (GeoPDF format only)
- TopoView <http://ngmdb.usgs.gov/maps/TopoView> (GeoPDF, GeoTIFF, KMZ, and JPEG formats)

Purchase paper copies of US Topo Quadrangles or Historical Topographic Quadrangles

- The USGS Store <http://store.usgs.gov> (Click "Map Locator & Downloader")

----- **Other Sites of Interest** -----

United States Interagency Elevation Inventory

<http://www.csc.noaa.gov/digitalcoast/tools/inventory>

High-accuracy topographic and bathymetric data for the U.S., including lidar, IfSAR, hydrographic surveys, multibeam data, and bathymetric lidar.

USGS Resources for Working with Topographic Maps

<http://education.usgs.gov/lessons/mapresources.html>

List of links for interpreting and using topographic maps; working with coordinates, datums, and projections; and classroom activities that use topographic maps.

The National Map Corps

<http://nationalmap.gov/TheNationalMapCorps/index.html>

Citizen mapping! Volunteer map data collection projects including locations for structures.

Interior Geospatial Emergency Management System

<http://rmgsc.cr.usgs.gov/igems/>

An overview of current hazard events including floods, volcanoes, earthquakes, hurricanes, wildfires, storms, and tides. Map Services available.

Geographic Names Information System (GNIS)

<http://geonames.usgs.gov>

Information about physical and cultural geographic features in the U.S. Defines the feature location by state, county, topographic map, and geographic coordinates.

StreamStats <http://water.usgs.gov/osw/streamstats/>

Analytical tools useful for water-resources planning and management, and for engineering design applications. Easily obtain streamflow statistics, drainage-basin characteristics, and other information for user-selected sites on streams.

Bulk Downloads of USGS Maps & Geospatial Data

<http://education.usgs.gov/lessons/geospatialwebsites.html#bulkdownload>

*Includes international data or information