



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); E-mail form: <http://www.usgs.gov/ask>

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

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

Download data from eight base data themes for the entire U.S.: Elevation (NED), Orthoimagery, Hydrography, Structures, Transportation, Geographic Names, Land Cover, and Boundaries. Additional products include the most current elevation contours and historical topographic maps. Available LIDAR bare earth derivatives are incorporated into the 1/9 arc-second elevation data (NED). *The National Map Viewer* includes other map services (but not downloads) of Ecosystems, Protected Areas, Gap Analysis Program Land Cover, Hazards, Weather, Wetlands, Public Land Survey System, and National Park Service Boundaries.

- Tiled Map Cache: <http://basemap.nationalmap.gov/ArcGIS/rest/services>
- Raster Data Services: <http://raster.nationalmap.gov/ArcGIS/rest/services>
- Vector Data Services: <http://services.nationalmap.gov/ArcGIS/rest/services>
- NED Status Service: <http://igskmncnvs526.cr.usgs.gov/arcgis/rest/services>

Earth Explorer* <http://earthexplorer.usgs.gov>

Download data from more than 180 data collections that span over 70 years of coverage. Includes all Satellite Imagery, all Aerial Photography, Elevation, Land Cover, Lidar Point Cloud Data, DLGs, DOQs, and much more.

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

Just looking for satellite imagery? GloVis is easier to search and more user-friendly than EarthExplorer. Includes Landsat, ASTER, EO-1, MODIS, and Landsat imagery plus more.

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

Bulk Download Tool for Free Landsat Satellite Data* http://landsat.usgs.gov/Landsat_Search_and_Download.php

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. These are simulated natural color images.

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.

Data.gov* <http://www.data.gov>
Geospatial information from all levels of government and the public.

National Atlas of the United States
Interactive map with hundreds of free geospatial data layers that are mostly designed to depict patterns and trends on a national scale. Also has page-size "Printable Maps" for easy download and/or printing. An outstanding educational tool!
<http://nationalatlas.gov> (home page)
<http://www.nationalatlas.gov/atlasftp.html> (data download)
http://nationalatlas.gov/infodocs/wms_intro.html (web mapping service)
http://nationalatlas.gov/infodocs/wfs_intro.html (web feature service)

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/hdds>

A dynamic online map interface for viewing and downloading USGS datasets for national or international disasters including floods, hurricanes, and earthquakes.

USGS Quaternary Fault and Fold Database

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

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

Mineral Resources On-Line Spatial Data*

<http://mrdata.usgs.gov>

A source for regional and global geology, geochemistry, geophysics, and mineral resource maps and data.

Maps of America's Submerged Lands

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

A portal to published USGS maps, reports, and digital data that depict the bathymetry, surficial geology, and/or subsurface structure of selected submerged U.S. areas.

Coastal & Marine Interactive Map Server

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

GIS data and metadata for past and current projects.

National Geologic Map Database

http://ngmdb.usgs.gov/ngmdb/ngmdb_home.html

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.

----- **Where to Get Digital (FREE) and Printed 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 in GeoPDF format

- The USGS Store <http://store.usgs.gov> (Click "Map Locator & Downloader")
- Historical Topographic Map Collection <http://geonames.usgs.gov/pls/topomaps>
- TopoView <http://ngmdb.usgs.gov/maps/TopoView>

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/inventory>

Where to find high-accuracy topographic and bathymetric data for the U.S., including LIDAR, IfSAR, hydrographic surveys, multibeam data, and bathymetric LIDAR.

GIS Lessons for the Classroom

<http://education.usgs.gov/gislab.html>

Use ArcView or ArcGIS to explore the geography of Africa or to create a DEM.

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.

USGS Natural Hazards Support System (NHSS)*

Monitor and analyze natural hazards events as they are occurring anywhere on the earth. Dynamic links connect to additional information. <http://nhss.cr.usgs.gov>

Geographic Names Information System (GNIS)

The GNIS contains information about physical and cultural geographic features of all types in the United States and defines the feature location by state, county, USGS topographic map, and geographic coordinates. <http://geonames.usgs.gov>

DLGV32 Pro

Free software for viewing USGS digital data (DRGs, DLGs, DOQs, NED) and doing very limited manipulation and analysis. PC only. <http://mcmweb.er.usgs.gov/drc/dlgv32pro>

*Includes international data or information