

# 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>

## ----- FREE Spatial Data from USGS & Partners -----

### *The National Map*

Download free, seamless orthoimagery, elevation, geographic names, hydrography, boundaries, transportation, structures, and land cover for the entire U.S. Offers interoperability with ArcGIS and viewers like Google Earth, plus popular GIS tools and other advanced features.

<http://nationalmap.gov/viewers.html>

### **Geo.Data.gov\***

The integration of Geospatial One-Stop and Data.gov. Access geospatial information from all levels of government and the public.

<http://geo.data.gov>

### **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>

<http://www.nationalatlas.gov/atlasftp.html> (data download)

### **Emergency Operations Portal\***

Critical pre- and post-disaster satellite and aerial images for national and international disaster preparations, rescue and relief operations, damage assessments, and reconstruction.

<http://eoportal.cr.usgs.gov/EO>

### **Hazards Data Distribution System (HDDS)\***

A dynamic online map interface that can be used to view and download USGS datasets for national or international disasters including floods, hurricanes, and earthquakes.

<http://hdds.usgs.gov/hdds>

### **Center for LIDAR Info. Coord. & Knowledge (CLICK)**

LIDAR point cloud downloads only. No processing or bare earth filtering has been performed. Data is delivered in USGS quarter-quad tiles in either LAS binary or ASCII text format. U.S. coverage is limited but growing.

<http://lidar.cr.usgs.gov>

### **Free Digital Topographic Map Quadrangles, US Topo Maps, & Historical Topographic Map Quadrangles**

Download free USGS topographic map quadrangles through the USGS Store. Includes computer-generated US Topo maps and scans of historical topographic maps. All maps are in GeoPDF format.

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

Also search the **Historical Topographic Map Collection** using the form at:

<http://cida.usgs.gov/hqsp/apex/f?p=262:1:743145668799009>

### **Free USGS Satellite Data and Air Photography\***

Freely download the entire Landsat satellite archive and NAPP, NHAP, and AHAP air photography. Download an entire scene containing all bands and metadata in a single zipped file. Some high-resolution scans of air photography still retain a cost.

<http://earthexplorer.usgs.gov>

### **Bulk Download Tool for Free Landsat Data**

[http://landsat.usgs.gov/Landsat\\_Search\\_and\\_Download.php](http://landsat.usgs.gov/Landsat_Search_and_Download.php)

### **TerraLook\***

Users create their own collections of georeferenced JPEG satellite images that allow for visual interpretation and comparison without the need for complicated software. All downloads are free. <http://terralook.cr.usgs.gov>

### **USGS LandsatLook Viewer**

Search and download full-resolution JPEGs of LandsatLook images. The images are compressed and stretched to create an image optimized for image selection and visual interpretation; these are not recommended for digital analysis.

[http://landsat.usgs.gov/LandsatLook\\_Viewer.php](http://landsat.usgs.gov/LandsatLook_Viewer.php)

### **Water Spatial Data**

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

<http://water.usgs.gov/maps.html>

### **USGS Quaternary Fault and Fold Database**

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

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

### **Mineral Resources On-Line Spatial Data\***

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

<http://mrdata.usgs.gov>

### **Global Land Survey 2010 (GLS2010)\***

A global land data set with core acquisition dates of 2009-2010. Consists of both Landsat TM and ETM+ images.

[http://landsat.usgs.gov/science\\_GLS.php](http://landsat.usgs.gov/science_GLS.php)

### **Energy Data Finder\***

Data from oil and gas assessments in the U.S. and selected international locations. Some sites include GIS layers for geology, bathymetry, gravity anomalies, and more.

<http://certmapper.cr.usgs.gov/geoportal>

### **Maps of America's Submerged Lands**

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.

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

### **Coastal & Marine Interactive Map Server**

GIS data and metadata for past and current projects.

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

-----Purchase USGS Products-----

### **USGS Store\***

An easy way to find and order printed USGS products including paper maps, books, and other publications; and to download free digital topographic maps. Click on "Education Products" to browse popular maps. Click on "Map Locator & Downloader" to download free topographic maps for anywhere in the U.S.

<http://store.usgs.gov>

### **EarthExplorer\***

Purchase higher resolution aerial photography that cannot be downloaded for free.

<http://earthexplorer.usgs.gov>

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

### **United States Interagency Elevation Inventory**

A comprehensive, nationwide listing of known high-accuracy topographic data, including lidar and IfSAR, and bathymetric data, including NOAA hydrographic surveys, multibeam data, and bathymetric lidar. Displays high-accuracy topographic and bathymetric data for the U.S. A collaborative effort between NOAA, the USGS, and FEMA.

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

### **The Most Popular USGS Thematic Maps\***

Browse popular USGS printed maps.

<http://store.usgs.gov> (click on "Education Products")

### **GIS Lessons for the Classroom**

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

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

### **Significant Topographic Changes in the United States**

A national inventory of significant topographic changes based on seamless multitemporal elevation data and land cover data.

<http://topochange.cr.usgs.gov>

### **USGS Resources for Working with Topographic Maps**

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

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

### **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>

### **GeoMac - Geospatial Multiagency Coordination**

Access online maps of current fire locations and perimeters in the conterminous U.S. and Alaska. Gives fire managers a near real-time and detailed visual representation of active fires. Fire perimeter data is updated daily.

<http://geomac.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>

### **EarthNow!**

A mesmerizing, near-real time viewer that displays data received from the Landsat satellites as they pass over the U.S.

<http://earthnow.usgs.gov>

### **USGS EROS Image Gallery\***

A collection of satellite images that record beautiful sights and scenes that stir the imagination. Includes the spectacular "Earth as Art" collections and state mosaics. Free high-resolution download of all images (paper copies are available through the USGS Store at <http://store.usgs.gov>).

<http://eros.usgs.gov/imagegallery>

### **Gallery of Landsat Satellite Images**

View interesting features and events captured by the Landsat satellites.

[http://landsat.usgs.gov/gallery\\_view.php?category=nocategory&thesort=pictureId](http://landsat.usgs.gov/gallery_view.php?category=nocategory&thesort=pictureId)

### **DLGV32 Pro**

Free software for viewing USGS digital data (DRGs, DLGs, DOQs, NED) and doing very limited manipulation and analysis. PC only.

<http://mcmcweb.er.usgs.gov/drc/dlgv32pro>

### **USGS Publications Warehouse\***

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

<http://pubs.usgs.gov>

\*Includes international data or information