## Useful Internet Sites for GIS and Water Resources

# **Data for the United States**

**Geospatial One Stop** <http://www.geodata.gov/>

A central source for US Government data. This is a very large compendium of data sources and also information about data.

**Water Resources Maps and GIS Information** <http://water.usgs.gov/maps.html> A link to 12 data sources with map data from the USGS or organizations connected with the USGS.

#### Hydrologic Unit Maps (HUC)

Description <http://water.usgs.gov/GIS/huc.html>

Get the data <http://water.usgs.gov/lookup/getspatial?huc250k>

The 8-digit hydrologic cataloging units are the basic water resources subdivision of the United States
Watershed Boundary Dataset (12 digit HUCs for the US) <http://www.ncgc.nrcs.usda.gov/products/datasets/watershed/>

**EPA Reach File 1 (RF1), Version 2.0**

Description <http://water.usgs.gov/GIS/metadata/usgswrd/XML/erf1_2.xml>

Get the data <http://water.usgs.gov/GIS/dsdl/erf1_2.e00.gz> It used to be that you could get RF1 for each 2-digit water resources region of the nation separately, but it appears that is no longer the case, and this file contains RF1 for the whole nation.

#### EPA Basins Model

Description <http://www.epa.gov/OST/BASINS/>

Get the data <http://www.epa.gov/waterscience/basins/b3webdwn.htm>

Contains a large inventory of environmental data organized by 8-digit hydrologic cataloging units

#### National Hydrography Dataset (NHD)

Description [http://nhd.usgs.gov](http://nhd.usgs.gov/)

Get the data <http://nhd.usgs.gov/data.html>

NHD in Geodatabase <http://nhd.usgs.gov/geodatabase_review.html>

NHDPlus <http://www.horizon-systems.com/nhdplus/> A dataset that integrates the National Hydrography, Elevation, and Land Cover Datasets.

#### Digital Elevation Models (DEMs) for the United States

Seamless data distribution from EROS Data Center <http://seamless.usgs.gov/>

**US Coastline from National Geophysical Data Center**

Coastline Extractor <http://www.ngdc.noaa.gov/mgg/shorelines/shorelines.html>

#### USDA Soils Data

Statsgo – State Soil Database (1:250,000 scale) <http://www.soils.usda.gov/survey/geography/statsgo/>

Ssurgo – County Soil Database <http://www.soils.usda.gov/survey/geography/ssurgo/>

Statsgo is available for the whole United States. Ssurgo is much more detailed but is available only in some counties. For an exercise on how to interpret Statsgo, see: <http://www.ce.utexas.edu/prof/maidment/giswr98/statland/webfiles/viewstat.htm>

USDA Data Gateway <http://datagateway.nrcs.usda.gov/>

#### Land Use/Land Cover Data

National Land Cover Institute <http://landcover.usgs.gov/>

Land cover data on the seamless server <http://seamless.usgs.gov/>

Land Cover Change 1992 to 2001 <http://www.mrlc.gov/multizone.php>

Exercise on analyzing Land Cover Change <http://www.ce.utexas.edu/prof/maidment/giswr2007/Land_Change/LandChange.mht>

National Wetlands Inventory Center <http://www.fws.gov/wetlands/>

National Atlas of the United States <http://www.nationalatlas.gov/atlasftp.html>

#### Climate

National Climate Data Center <http://www.ncdc.noaa.gov/>

NCDC Climate Data Online [http://cdo.ncdc.noaa.gov](http://cdo.ncdc.noaa.gov/)

 Description of how to use Climate Data Online:

<http://www.ce.utexas.edu/prof/maidment/gradhydro2005/docs/ncdcdata.doc>

USDA Water and Climate Center (PRISM maps of mean precipitation) <http://www.wcc.nrcs.usda.gov/climate/prism.html>

For an exercise using PRISM and land cover data to estimate nonpoint source pollution, see:

<http://www.ce.utexas.edu/prof/maidment/giswr2005/ex6/ex6.doc>

National Center for Atmospheric Research DayMet <http://www.daymet.org/>

Gridded daily precipitation and temperature on a 1 km grid, 1980—1997.

Nexrad stage III precipitation data <http://dipper.nws.noaa.gov/hdsb/data/nexrad/nexrad.html> and procedures for using it (<http://dipper.nws.noaa.gov/hdsb/data/nexrad/nexrad.html>). (No more recent than 2005 and rather awkward to use)

University of Washington gridded meteorological data

<http://www.hydro.washington.edu/SurfaceWaterGroup/Data/gridded/index.html>

NRCS National Water and Climate Center <http://www.wcc.nrcs.usda.gov/> that includes water supply forecasts, snow, precipitation and temperature.

SNOTEL <http://www.wcc.nrcs.usda.gov/snotel/> real time snow data

#### Water Resources

USGS National Water Information System <http://water.usgs.gov/usa/nwis/>

Real Time USGS Data on Water Watch <http://water.usgs.gov/nwis/rt>

CUAHSI Hydrologic Information System <http://his.cuahsi.org>

WaterOneFlow web services for water data <http://hiscentral.cuahsi.org/pub_services.aspx>

**LandSat**

Free Landsat Scenes <http://glovis.usgs.gov>.
NASA Land Processes DAAC <https://lpdaac.usgs.gov/>

#### Global Data

Digital Chart of the World <http://www.maproom.psu.edu/dcw/>

Shuttle Radar Topography Mission (SRTM) <http://srtm.usgs.gov/>

HydroSheds – hydrologic derivative datasets from SRTM <http://hydrosheds.cr.usgs.gov/>

GTOPO30 - 30 arc-second cell (1:1,000,000 scale) global DEM <http://eros.usgs.gov/#/Find_Data/Products_and_Data_Available/GTOPO30>

Hydro1K – hydrologic derivative datasets from GTOPO30 <http://eros.usgs.gov/#/Find_Data/Products_and_Data_Available/gtopo30/hydro>

Global Water and Energy Experiment (GEWEX) <http://www.gewex.org/>

WaterGap – world water resources and water use <http://grdc.bafg.de/servlet/is/1890/>

**Texas Data**

Texas Natural Resource Information System <http://www.tnris.state.tx.us/>

Texas Water Development Board GIS Data <http://www.twdb.state.tx.us/mapping/gisdata.asp>

TNRIS Data <http://www.tnris.state.tx.us/datadownload/download.jsp>

**Utah Data**

Utah Automated Geographic Reference Center <http://agrc.its.state.ut.us/> contains USGS Maps, DEM's, Orthophoto quads within Utah.  Also includes if you look hard enough, liquefaction potential, Hydrography and Environmental data for certain locations. Also – 2 m resolution bear earth LIDAR data for Wasatch front.
Western Regional Climate Center <http://www.wrcc.dri.edu/>
Bear River Watershed Information System.  <http://www.bearriverinfo.org/>
Great Salt Lake Basin Hydrologic Observatory.  <http://greatsaltlake.utah.edu/>
Utah Climate Center.  <http://climate.usurf.usu.edu/>

**Nebraska Data**

[Geospatial OneStop for Nebraska](http://www.dnr.ne.gov/databank/spat.html)

[Nebraska View (CALMIT)](http://nebraskaview.unl.edu/neview02.htm)

[NE Digital Data Bases (Conservation and Survey Division)](http://snr.unl.edu/data/geographygis/index-geographygis.asp)

[National Drought Mitigation Center](http://drought.unl.edu/dm/index.html)

[High Plains Regional Climate Center](http://www.hprcc.unl.edu/index.php)