Useful Internet Sites for GIS and Water Resources

Data for the United States

The National Map

Watershed Boundaries (Hydrologic Units)
Description http://water.usgs.gov/GIS/huc.html_ The 8-digit hydrologic cataloging units are the basic water resources subdivision of the United States. Information on Watershed Boundary Dataset (2 to 12 digit HUCs for the US) https://www.usgs.gov/core-science-systems/ngp/national-hydrography/watershed-boundary-dataset

Hydrography

Elevation Data
National elevation dataset http://nationalmap.gov/elevation.html
Open Topography high resolution LIDAR data http://www.opentopography.org/
USGS Earth Explorer http://earthexplorer.usgs.gov/ A variety of USGS data holdings including ASTER Global DEM, GTOPO30, Coastal National Elevation Database

Global Coastline from National Geophysical Data Center
http://www.ngdc.noaa.gov/mgg/shorelines/gshhs.html

USDA NRCS Soils Data
There are two primary soil data sources in the US
- SSURGO State and County Data. Specify an area of interest then access data for area of interest in Web Soil Survey
- STATSGO2 (US General Soil Map at 1:250,000 scale). Download by State in Web Soil Survey
STATSGO2 is available for the whole United States. SSURGO is much more detailed but is not available everywhere.
USDA Data Gateway http://datagateway.nrcs.usda.gov/
Polaris Soils Data
Data: http://stream.princeton.edu/POLARIS
Land Use/Land Cover Data
National Land Cover Institute http://landcover.usgs.gov/
National Wetlands Inventory Center http://www.fws.gov/wetlands/

Water Resources Maps and GIS Information http://water.usgs.gov/maps.html. This site is a listing data sources with map data from the USGS or organizations connected with the USGS.

Climate and weather
Climate.gov maps: http://www.climate.gov/maps-data
National Centers for Environmental Information https://www.ncei.noaa.gov/
PRISM Climate Group Oregon State University http://prism.oregonstate.edu/
DayMET http://daymet.ornl.gov/ Gridded daily precipitation and temperature on a 1 km grid.
Nexrad radar data (including precipitation) https://gis.ncdc.noaa.gov/maps/ncei/radar
NRCS National Water and Climate Center http://www.wcc.nrcs.usda.gov/ that includes water supply forecasts, snow, precipitation and temperature.
SNOWTELE http://www.wcc.nrcs.usda.gov/snowtel/ real time snow data

Water Resources
Real Time USGS Data on Water Watch http://water.usgs.gov/nwis/rt
CUAHSI Data Services https://www.cuahsi.org/data-models and HydroClient at http://data.cuahsi.org/
National Weather Service Advanced Hydrologic Prediction Service http://water.weather.gov/ahps

Environment
EnviroAtlas: http://enviroatlas.epa.gov/enviroatlas/

Satellite
USGS Earth Explorer http://earthexplorer.usgs.gov/
NASA EarthData https://earthdata.nasa.gov
NASA Worldview (includes MODIS) https://worldview.earthdata.nasa.gov/
Global Data

Natural Earth Data http://www.naturalearthdata.com/
HydroSheds – hydrologic derivative datasets from SRTM http://hydrosheds.cr.usgs.gov/
GTOPO30 - 30 arc-second cell (1:1,000,000 scale) global DEM https://lta.cr.usgs.gov/GTOPO30
Hydro1K – hydrologic derivative datasets from GTOPO30 https://lta.cr.usgs.gov/HYDRO1K
Global Water and Energy Experiment (GEWEX) http://www.gewex.org/
Global Runoff Data Centre http://www.bafg.de/GRDC/

Texas Data

Texas Natural Resource Information System http://www.tnris.org/
Texas Water Development Board GIS Data http://www.twdb.texas.gov/mapping/gisdata.asp
Hurricane Harvey Collection on HydroShare https://www.hydroshare.org/resource/2836494ee75e43a9bfb647b37260e461/
Hurricane Harvey Story Map http://arcg.is/001jje

Utah and Mountainous West Data

Utah GIS Portal http://gis.utah.gov/ 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 bare earth LIDAR data for Wasatch front.
Western Regional Climate Center http://www.wrcc.dri.edu/
Utah Climate Center. http://climate.usurf.usu.edu/
Airborne snow observatory that measures snow from LIDAR https://nsidc.org/data/aso.
SNODAS gridded mapping of snow across the US https://www.nohrsc.noaa.gov/archived_data/

ESRI

Living Atlas https://livingatlas.arcgis.com/
ArcGIS.com http://www.arcgis.com