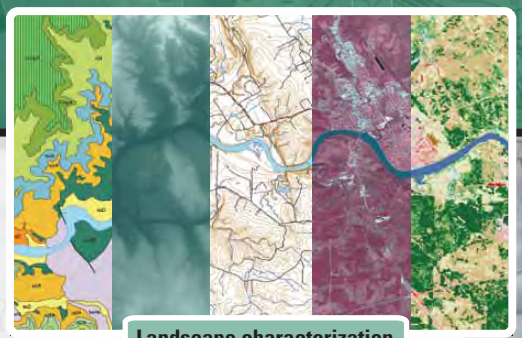
USGS
science for a changing world

Geographic Information Science and Data Management



Landscape characterization

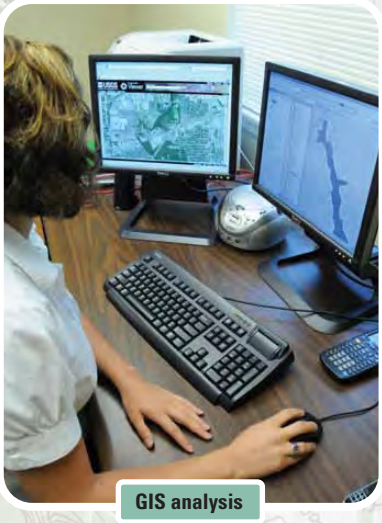
Remote Sensing

- Satellite and aerial photo interpretation
- Image processing

Field mapping

Geographic Information Systems (GIS) Analysis

- Publication-quality cartography
- Elevation and land cover/land use data analysis
- Watershed delineation and characterization
- Spatial data production, analysis, modeling, and visualization
- Metadata design and training
- GIS custom tool development



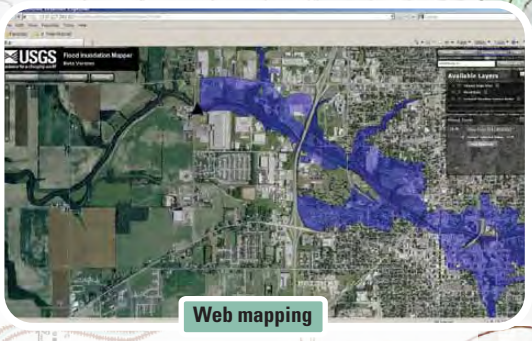
GIS analysis

Data Management and Data Science

- Database development and management
- Data inventory, assessment, and integration
- Database tutorial and standards development
- Database hosting
- Computer programming (Python, Perl, VB.NET, VBA, Javascript, MATLAB, R)
- Data mining and statistical analysis

Web Services and Web Mapping

- Web-based data management
- Web-based mapping application development
- Web design
- Mobile application development



Web mapping

MISSION: To provide reliable, impartial, timely information that is needed to understand the Nation's water resources.

The Water Resources Discipline actively promotes the use of this information by decision makers to

- Minimize the loss of life and property as a result of water-related natural hazards, such as floods, droughts, and land movement
- Effectively manage groundwater and surface-water resources for domestic, agriculture, commercial, industrial, recreational, and ecological uses
- Protect and enhance water resources for human health, aquatic health, and environmental quality
- Contribute to wise physical and economic development of the Nation's resources for the benefit of present and future generations

Web Page: http://tx.usgs.gov/GIS

U.S. Department of the Interior
U.S. Geological Survey

August 2011

The U.S. Geological Survey (USGS) Texas Water Science Center works in cooperation with approximately 100 municipalities, river authorities, groundwater districts, and State and Federal agencies in Texas to provide reliable, impartial scientific information to resource managers, planners, and other customers. This information is gathered by the USGS Texas Water Science Center to minimize the loss of life and property from natural disasters, to contribute to the conservation and sound economic and physical development of the Nation's natural resources, and to enhance the quality of life by monitoring water, biological, energy, and mineral resources.

If you have any questions or concerns with which we can assist you, contact us or visit our Web site at **http://tx.usgs.gov** or the national Web site at **http://www.usgs.gov**. We look forward to serving you in the near future.

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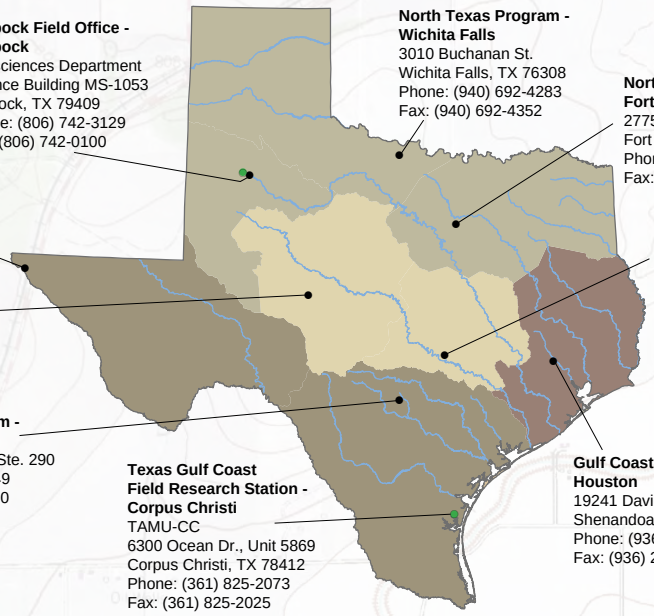
Texas Water Science Center Locations



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● USGS Water Discipline Office
● USGS Biology Discipline Office