USGS
science for a changing world

Karst Science

Water-quality sampling

Karst Water-Resource and Water-Quality Evaluation

- Monitor and transmit spring and stream discharge and groundwater level data real time
- Analyze spring-discharge and well water-level hydrographs and chemographs
- Use advanced statistical techniques to analyze continuous data
- Quantify and refine water budgets for groundwater flow models
- Design karst monitoring programs that integrate baseline and storm-response geochemistry
- Interpret breakthrough curves of integrated geochemical constituents for source identification
- Model geochemical processes of mixing and surface-water/groundwater interaction
- Interpret age-tracer data to assess groundwater residence time
- Interpret geochemical evolution and flowpath characterization
- Characterize aquifer properties with surface and borehole geophysical methods
- Create geodatabases that link karst features with geochemical and hydrologic data
- Apply statistical techniques to reexamine historical data in a present-day context
- Link climate and hydrologic models to forecast changes in spring flow and groundwater levels

Installing monitoring instruments

Inspecting a real-time data-collection platform

Entering a karst recharge feature

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

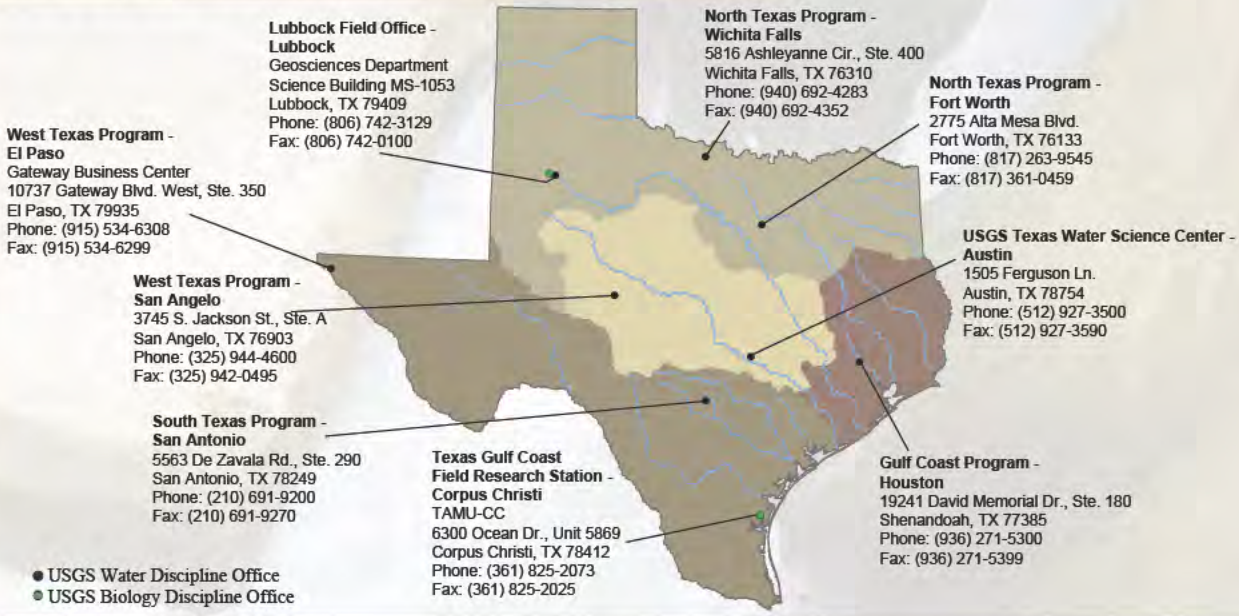
The Water Resources Discipline actively promotes the use of this information by decision makers to

- 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

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.

Management staff and key specialists of the USGS Texas Water Science Center:

USGS-Texas contacts	Title	Telephone no.	E-mail address
Bob Joseph	Director	(512) 927-3502	rljoseph@usgs.gov
Greg Stanton	Deputy Director, Hydrologic Studies	(512) 927-3558	gstanton@usgs.gov
Terry Schertz	Deputy Director, Hydrologic Data Collection and Mgmt	(512) 927-3587	tschertz@usgs.gov
Meghan Roussel	Chief, Central Texas Program	(512) 927-3503	mroussel@usgs.gov
Mark Null	Chief, South Texas Program	(210) 691-9262	jmnull@usgs.gov
Amy Beussink	Chief, Gulf Coast Program	(936) 271-5312	ambeussi@usgs.gov
Tim Raines	Chief, North Texas Program	(817) 263-9545 x201	thraines@usgs.gov
George Ozuna	Senior Program Manager	(210) 691-9225	gbozuna@usgs.gov
William Asquith	Lubbock Field Office	(806) 742-3129	wasquith@usgs.gov
Cary Carman	Data Chief, San Angelo Field Office	(325) 944-4600 x20	cdcarman@usgs.gov
Jaimie Ingold	Corpus Christi Field Office	(361) 825-2073	ingoldj@usgs.gov
Jeff East	Surface-Water Specialist	(936) 271-5326	jweast@usgs.gov
Jeremy White	Groundwater Specialist	(512) 927-3585	jwhite@usgs.gov
Tim Oden	Water-Quality Specialist	(817) 263-9545 x204	kdbecher@usgs.gov
Daniel Pearson	GIS Specialist	(512) 927-3561	dpearson@usgs.gov
Peter Van Metre	Sediment Specialist	(512) 927-3506	pcvanmet@usgs.gov
Barbara Mahler	Karst Specialist	(512) 927-3583	bjmahler@usgs.gov
Claire DeVaughan	Geospatial Liaison for Texas	(512) 927-3566	cdevaugh@usgs.gov
Milton Sunvison	Instrumentation Specialist	(512) 927-3533	mwsunvis@usgs.gov
Lynne Fahlquist	Public Information Officer	(512) 927-3508	lfahlqst@usgs.gov
Mike Canova	National Water Information System (NWIS) Manager	(512) 927-3536	mcanova@usgs.gov

Texas Water Science Center Locations