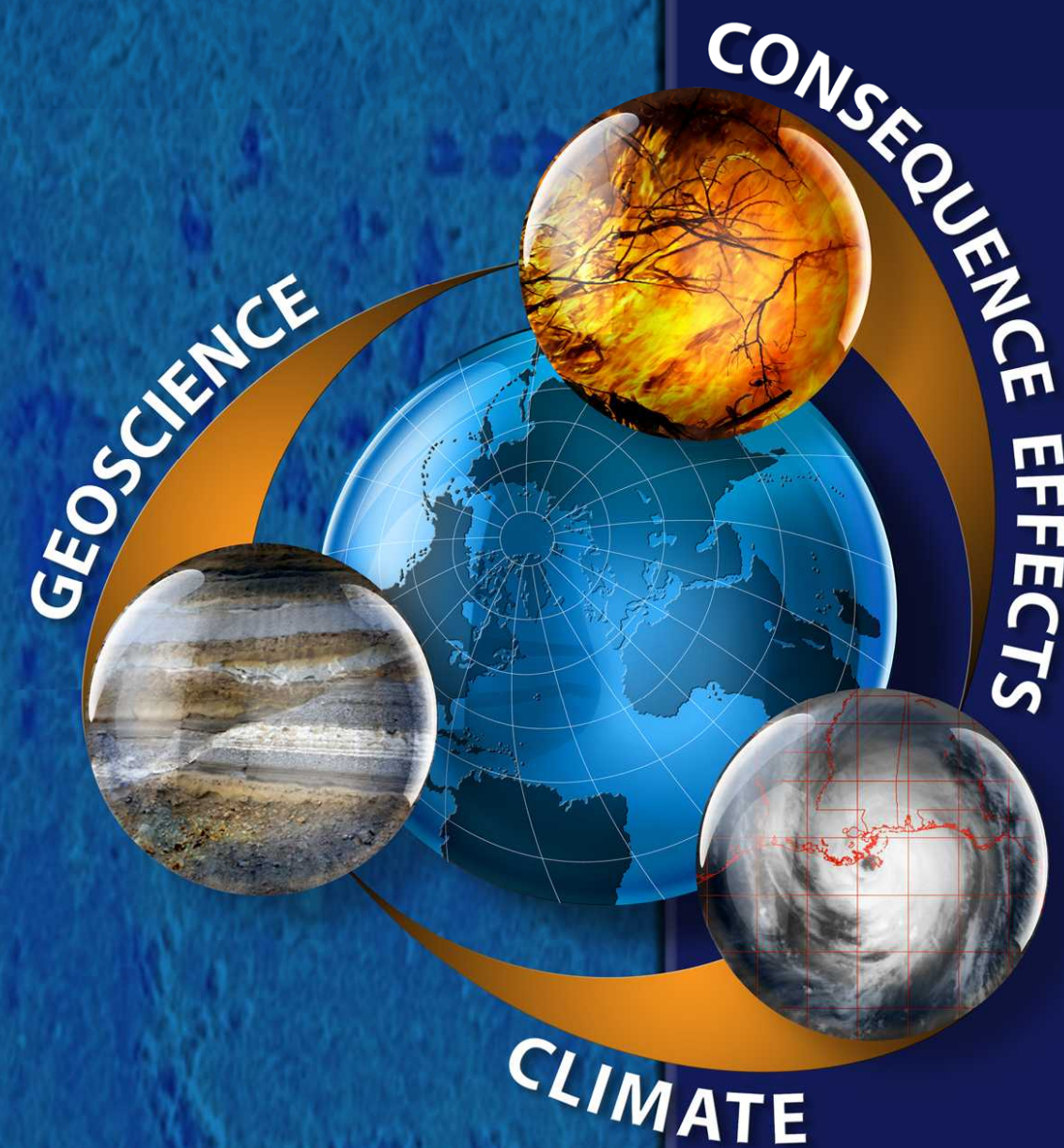




Geoscience, Climate, &

Geoscience Research and Applications - 6910

Geotechnologies and Engineering
Geophysics and Atmospheric Sciences
Geomechanics
Geochemistry
Geothermal Research



Marianne Walck,
Director 6900
John Merson,
Sr. Manager 6910
Pablo Garcia,
Sr. Manager 6920

Interdependency and Consequence Effects - 6920

Resilience and Regulatory Effects
High Confidence System Environments
Policy and Decision Support Analytics
Actionable Knowledge Solutions
Earth Systems Analysis



Consequence Effects - 6900



Capabilities

Numerical Modeling
Reverse Time Migration
Tomography
Risk Assessment
Geostatistics and Spatial Statistics
Multi-scale, Multi-physics
Coupled Modeling
Cavern Mechanics Analysis
Subsidence Modeling
Reservoir Stimulation Technologies
Drilling Systems Research
High Temperature Electronics
Field Test Planning, Coordination, and Execution
Multi-domain System Analysis
Spatio-temporal System Modeling
Societal Impact Analysis
Multi-scale Economics
Earth Systems Impacts and Effects
Applied Computer Science and Engineering
Complex System Response, Evolution, Restoration, and Recovery
Global / National / Regional Infrastructure Interdependencies
Crisis Action Support and Analytics
Agile Project and Portfolio Management Frameworks
Quality Engineering

Applications

CO₂ Sequestration
Repository Science
Resource Extraction
NW Materials Characterization
Arms Control / Treaty Verification
Facility Defeat / Penetration
Contaminant Warning Systems
Penetration Mechanics / Tunnel Damage
Rapid Drilling
Site Characterization Studies
Full Cavern / Well Design and Development
Oil and Brine Chemistry
Geothermal Energy
Regulatory Environments
Water-Energy Nexus
Climate
Critical Infrastructures
Natural Resource Use
Social Impacts

