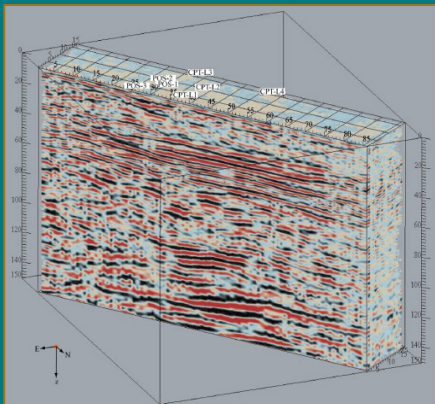


Applied Geophysics

Providing advanced solutions to complex geophysical problems



ESRI-SC maintains a dynamic ensemble of core geophysical capabilities, reflected in its personnel skills, equipment, and facilities while offering student training and mentorship through research opportunities.



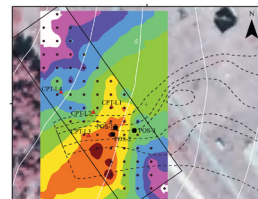
The Earth Sciences and Resources Institute (ESRI-SC) is composed of highly experienced professionals who work together to solve technical energy and environmental problems as an integrated team. ESRI-SC has in-depth experience with geophysical methods such as 2D and 3D seismic reflection, refraction, and interactive seismic interpretation. We are leaders in the state of SC in electromagnetic methods, DC resistivity, ground penetrating radar, geophysical log analysis and interpretation, geophysical modeling, and mapping.

Projects

ESRI-SC field crews and geophysicists have completed geophysical research projects in: Alabama, Colorado, Georgia, Illinois, Kansas, Kentucky, Nebraska, South Carolina, and Washington. Project sponsors include various state and federal government agencies and private industry.

Facilities

For surface seismic acquisition, ESRI-SC owns a 120 channel Geometrics StrataView



RX 24-bit seismograph with seismic recording cables and standard 40 Hz geophones. ESRI-SC also owns 40 Hz shear wave geophones, and single 100 Hz

P-wave geophones that can be employed for specialized seismic recording.

For borehole seismic acquisition, ESRI-SC owns a Geostuff 3 component borehole clamping geophone system containing 40 Hz elements. Borehole seismic recording is done on a twelve channel Seistronix RAS-24 portable seismograph. Field vehicles include a recording truck and an ATV with attached accelerated weight drop seismic energy source. We also have GPR borehole antennas.

Software

- Vista
- VoxelGeo
- Petrel
- SurfSeis
- SynTool
- StratWorks
- ECLIPSE
- Landmark Graphics (ProMAX, SeisWorks)
- CSM Seismic Unix
- Veritas, Hampson-Russell
- SMT Kingdom Suite
- Rave
- Interactive Petrophysics
- PetroWorks
- Stratamodel
- GXT and MESA
- ArcGIS™
- pulseEKKO
- MODFLOW™
- PetroSim TOUGH2™

