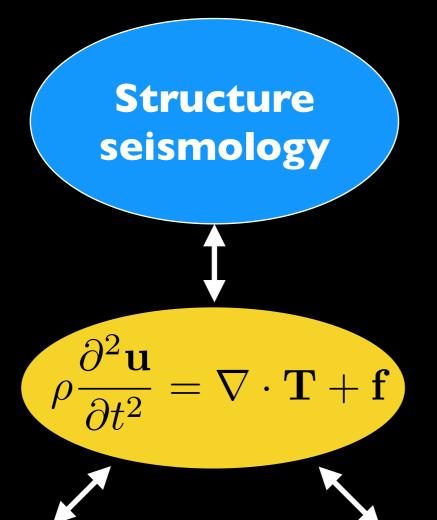


## UTD Seismic Imaging Laboratory

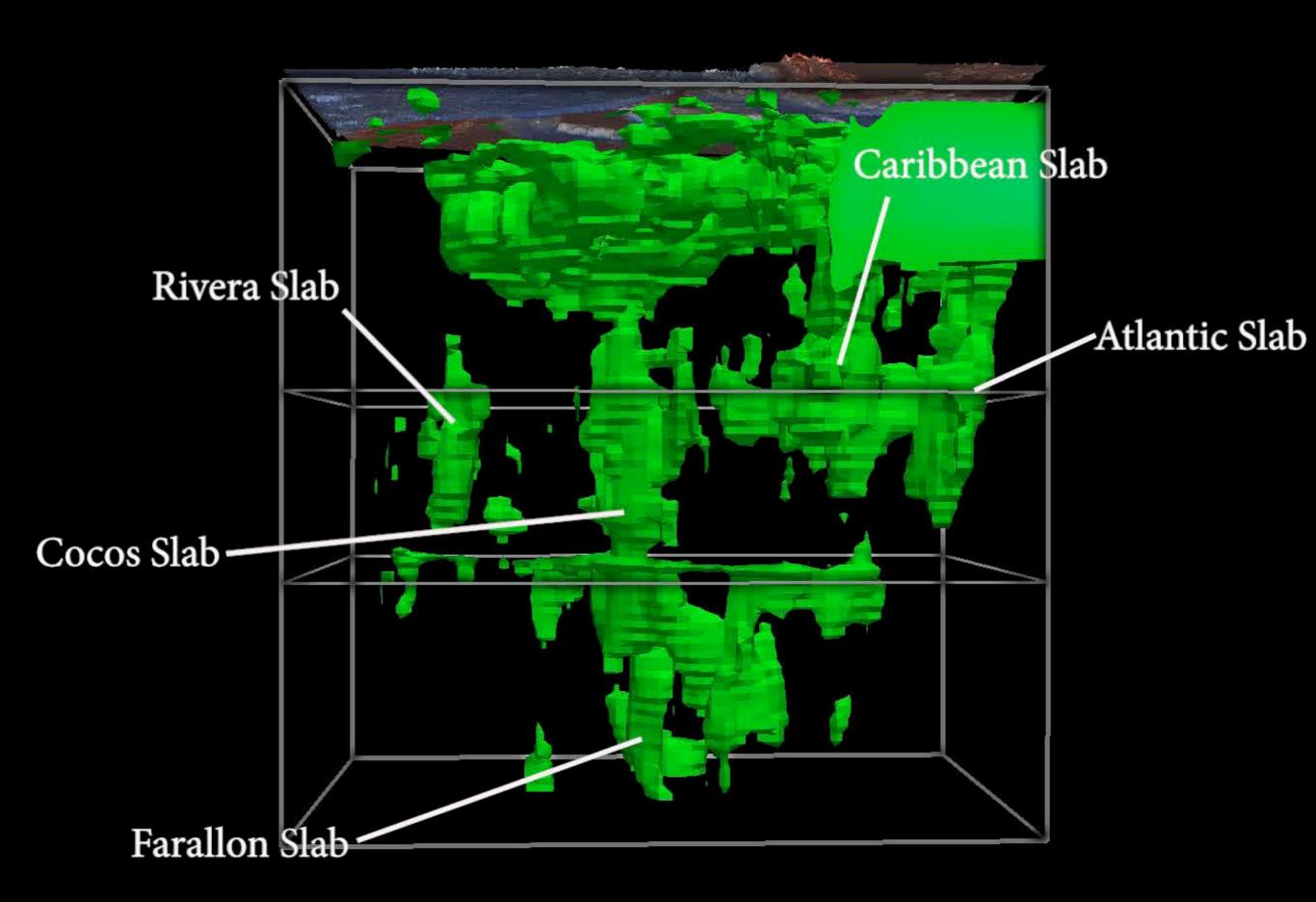
Mission: developing advanced seismic imaging technologies to investigate tectonic/environmental processes, physical properties of Earth's materials, and earthquake rupture processes

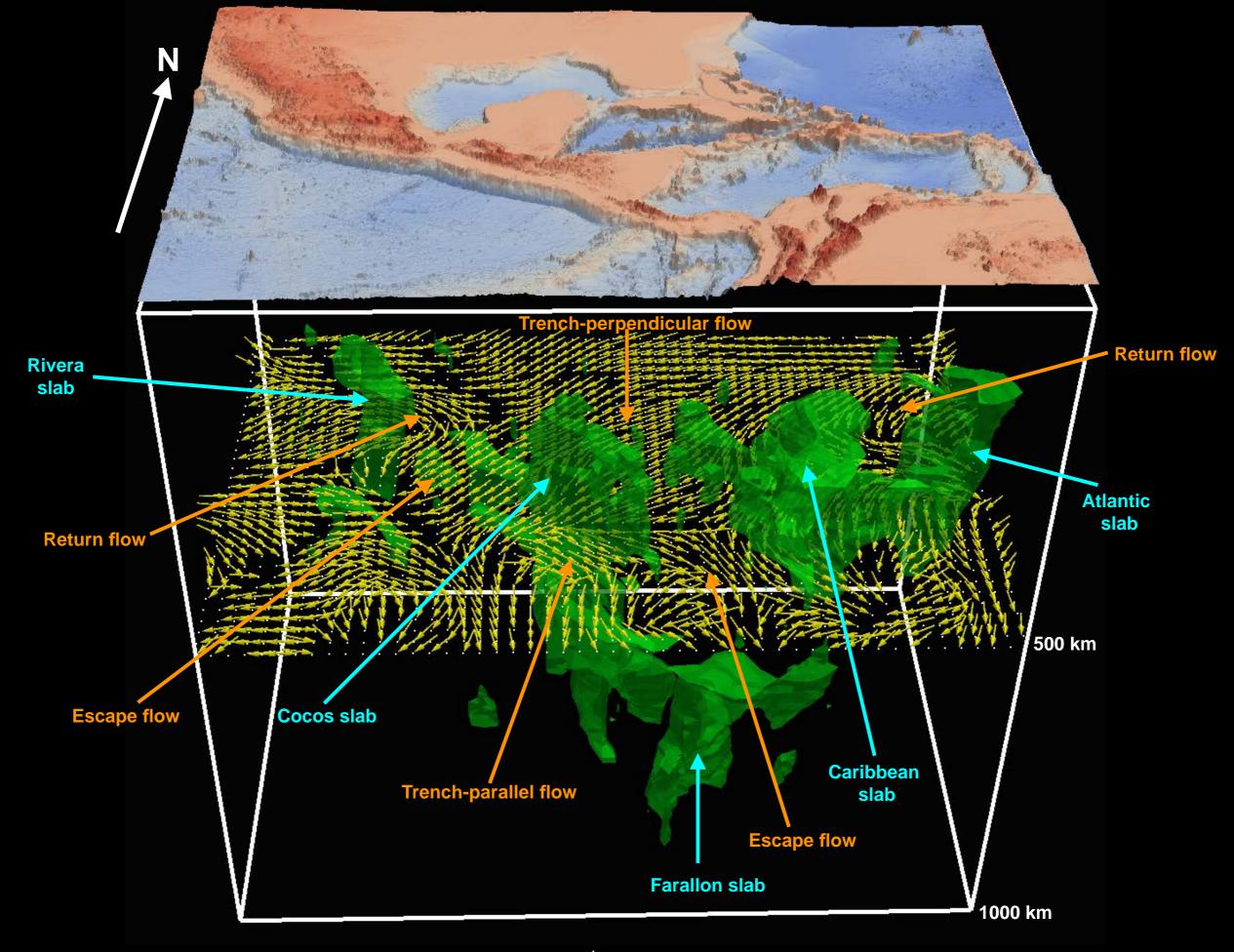


- Continental-scale tomography (Europe, North America, and Australia)
- Crustal-scale tomography (central
  Oklahoma and the Delaware Basin)
- Reservoir-scale imaging
- Azimuthal anisotropy and attenuation

Environmental seismology

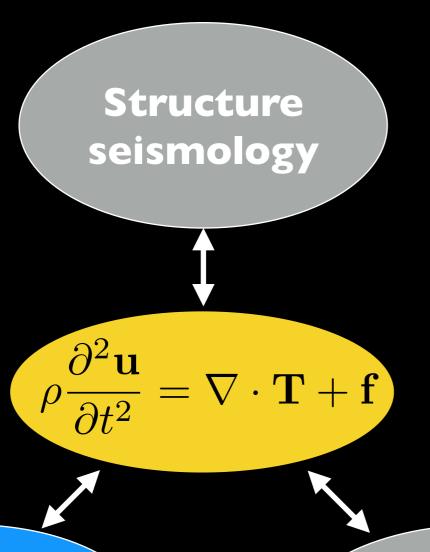
Earthquake seismology





## UTD Seismic Imaging Laboratory

Mission: developing advanced seismic imaging technologies to investigate tectonic/environmental processes, physical properties of Earth's materials, and earthquake rupture processes



Monitoring crustal response to

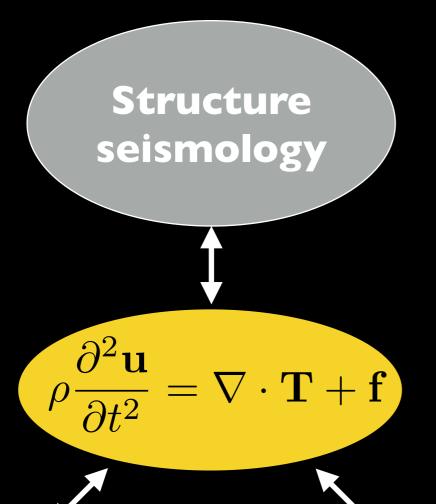
- Ice sheet melting
- Injection/withdraw of water

Environmental seismology

Earthquake seismology

## UTD Seismic Imaging Laboratory

Mission: developing advanced seismic imaging technologies to investigate tectonic/environmental processes, physical properties of Earth's materials, and earthquake rupture processes



- Earthquake location
- Moment tensor inversion
- Finite fault rupture imaging

IN 3D EARTH!

**Environmental** seismology

Earthquake seismology

## Rupture processes for the fore and mainshocks

2019 Mw6.4 Ridgecrest, California earthquake

2020 Mw 6.5 Stanley, Idaho earthquake

