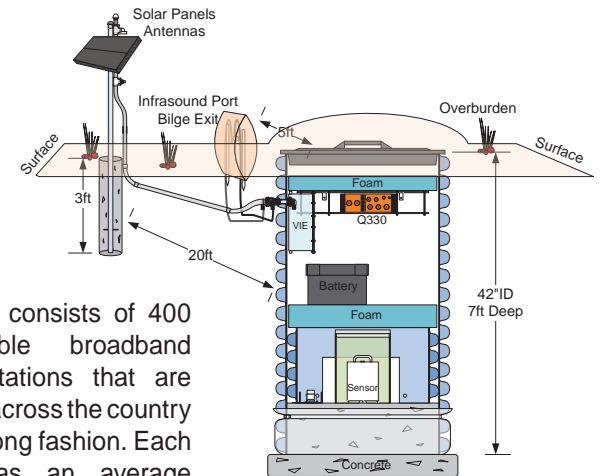
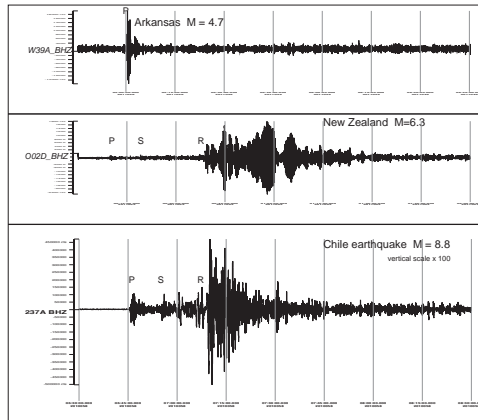


# Transportable Seismic Network:

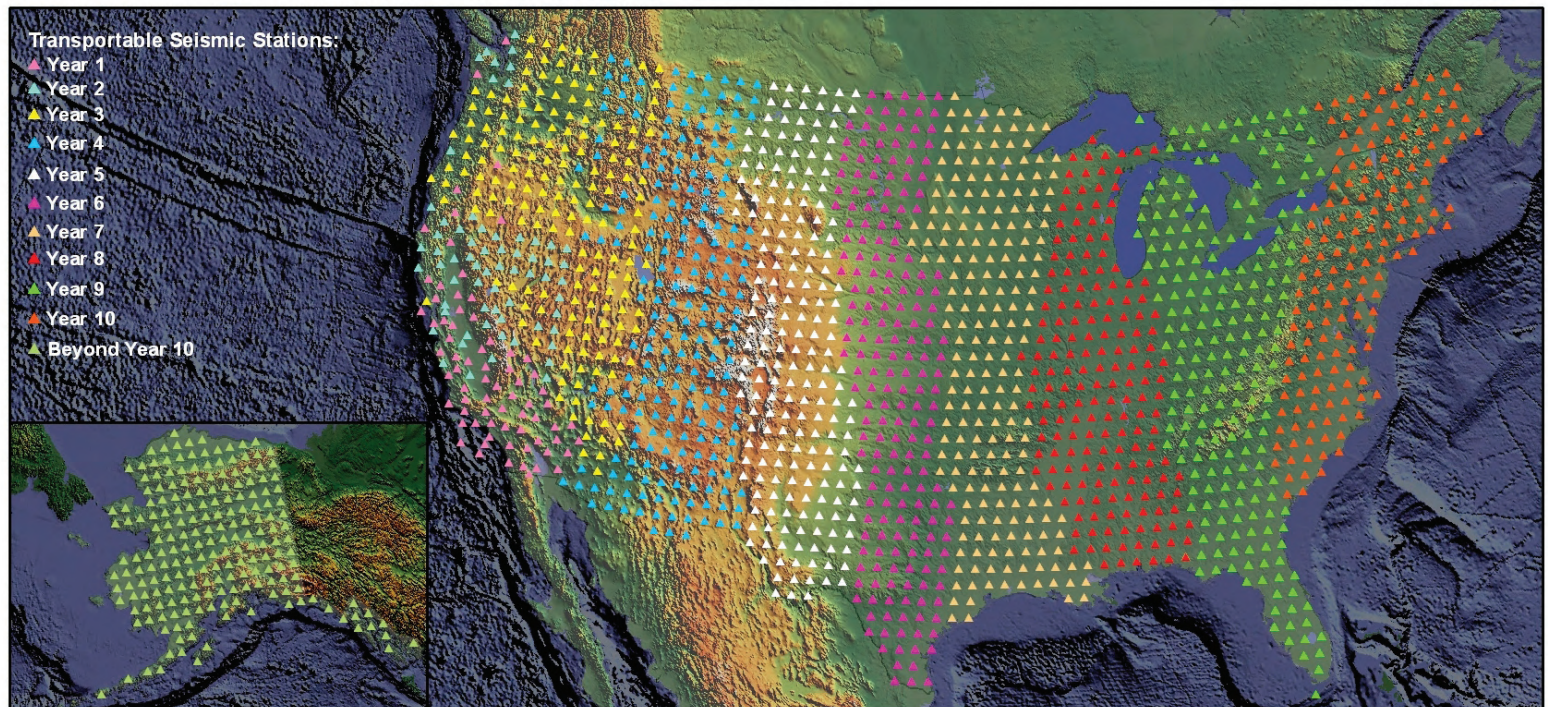
## Imaging the Earth's Interior

EarthScope is installing a dense array of seismometers across the continental United States, southern Canada, and Alaska. The seismometers record earthquakes that occur locally, regionally, and throughout the world to produce high-resolution images of the Earth's interior and to study the origin and characteristics of earthquakes and earthquake faults. EarthScope scientists integrate these images with other types of geological data to address unresolved issues of the continental structure, evolution, and dynamics.

*From your USArray station, you will be able to see earthquakes of different magnitudes and earthquakes that occur locally, regionally, and throughout the world.*



The array consists of 400 transportable broadband seismic stations that are deployed across the country in a roll-along fashion. Each station has an average residence time of 18-24 months, after which it is moved to a new location. Operational since 2005, EarthScope will occupy over 2000 locations and take 15 years to complete, from start to finish. With a station spacing of ~70km (42 miles), the array enables scientists to gain new insights into the earthquake process and to generate 3-D images of the Earth from the crust to the core.



For more information, contact [usarray@iris.edu](mailto:usarray@iris.edu) • 1-800-504-0357 (tel/fax)