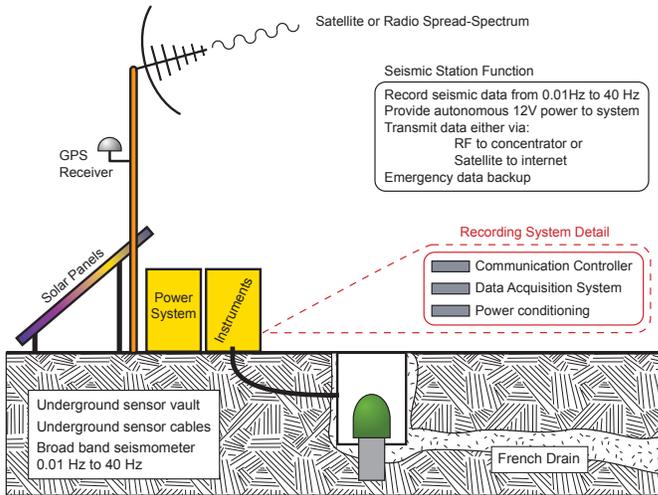


Transportable Array

Telemetered USArray Broad-Band Seismic Station

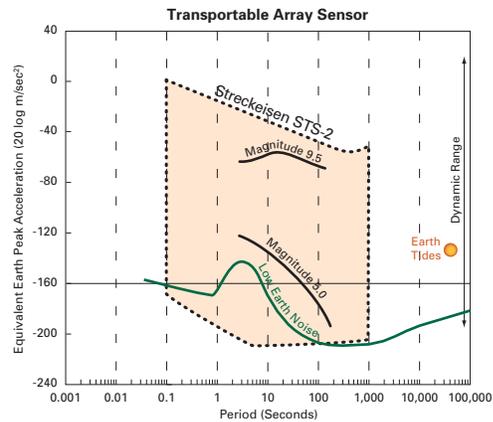


Purpose

Regional and Teleseismic
Earth Structure
Earthquake Source
Seismicity

Characteristics

Transportable
Continuous Real Time Telemetry
Low Power
Broadband



Transportable Array montage. The deployment of a typical station includes a shallow vault to protect the broadband seismometer, digitizer/recorder, power (battery and solar) systems and communications controllers. The GPS receiver provides accurate timing to the recorder, and a data telemetry system. The amplitude response shows the broadband response of these systems, but with limited very long period response compared to the permanent installations. The lowermost photograph shows, from left-to-right, Kinematics Baler (recorder and communications controller), Kinematics Q330 (digitizer), and Streckeisen STS-2 broadband seismometer.