

Flexible Array

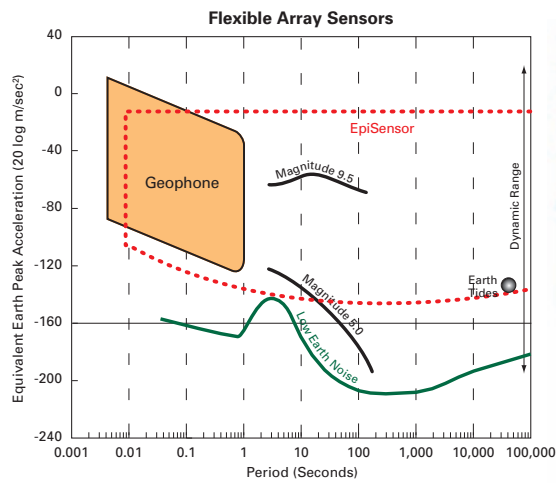
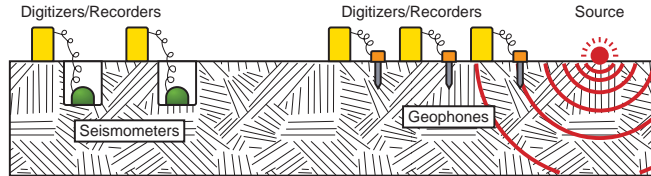
Purpose

High-resolution Images of Crustal Structure and Geologic Targets
Flexible Source-receiver Geometries

Characteristics

High-density, Short-term Observations
Natural or Artificial Sources
Highly Portable
High Frequency
Autonomous Data Acquisition

Flexible Array - Active Source Experiments



Flexible Array montage showing schematic of field layout, amplitude vs. frequency response of sensors, instrumentation, and typical deployments. Each sensor has its own digitizer/recorder with internal batteries. The recorders can be set to start/stop recording if the time of a nearby man-made seismic source is known. The geophones may be laid out in linear arrays, with station spacing from a meter to kilometers. The amplitude response of the geophones is well-suited to recording the high-frequency, energetic signals from man-made sources. The lowermost photograph shows, from left-to-right, shipping box filled with geophone, 3-channel digitizer/recorder.