

Initial environmental noise assessment for Cosmic Explorer: equipment and impact on the measurement site

Below: the two main types of sensors and how they are deployed. **We expect 3 to 10 deployments, each lasting an hour to a day.**

Seismometers can be set on a granite slab on the ground after clearing a flat place. If it is windy and digging a hole is acceptable, a ~1ft hole will be dug to put the seismometer below ground level



Seismometers

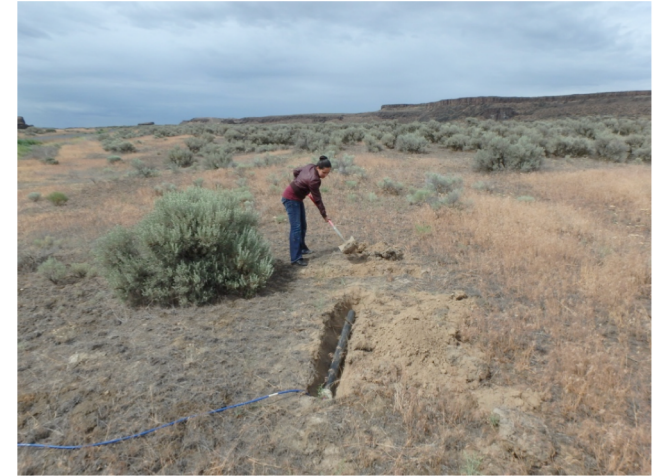
Magnetometer requires about a ~1 foot hole for burial.

The full setup with cover over seismometer.



Magnetometer

Below: figures from a talk on **a previous more invasive set of field measurements** showing minimization of impact.



Drumheller Channels. Margarita taking her turn digging the EW trench. Magnetometer in the NS trench has not yet been buried.



Drumheller Channels. After: trenches filled in and impact minimized, good practice for field measurements.