

## Gravity Wave Detectors for Geophysics use

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Gravity wave detectors are large, very precise, yard stick laying on the ground.

The next generation will be underground.

They are potentially great instruments to measure the Low Frequency motion of Earth's crust, especially in the mHz region.

GW detection make every effort (succesfully) to reject seismic motion, the signal for geophysics. The next generation of GW detectors will deal nwith the fluctuations of the gravity field induced by transiting seismic waves.

good information resides in the rejected data or movement and can be rcovered for geophysics studies.

Additionally, several techniques developed to detect specific signal shapes of GW signals buried in the noisy background can be recycled to extract interesting seismic signals from seismic clutter.