



Shear Wave Tomography

Shear wave source SH66 was used in a 150 mm plastic cased borehole to generate shear waves at 2 m intervals. A six component receiver string was assembled - each component having 4 horizontal geophone receivers in 45° angular separation - at 2 m spacing. Source and receiver string orientation was measured by in-built magnetic compass. Receiver setup was moved 4 times in borehole B1. Shooting incl. directional change of the source orientation to each receiver layout started two positions below to two positions above each receiver arrangement.



Shear wave source and surface equipment



Borehole geophone assembly

To calculate the shear wave tomogram traveltimes were picked based on finding the right polarity change for each seismic trace (picking on overlapping traces). About 185 traveltimes were used for tomogram calculation.

Water level was measured at 9 m depth.

