



SBS 42 | P-Wave Source

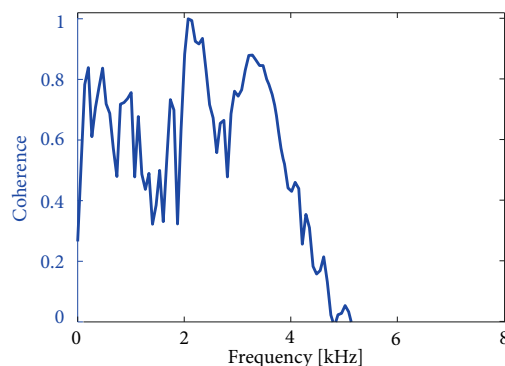
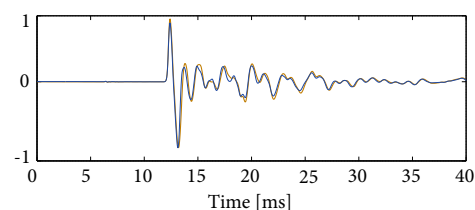
The borehole source SBS42 generates compressional waves (P) in water filled boreholes and is used for P-wave tomography.

Trigger Accuracy

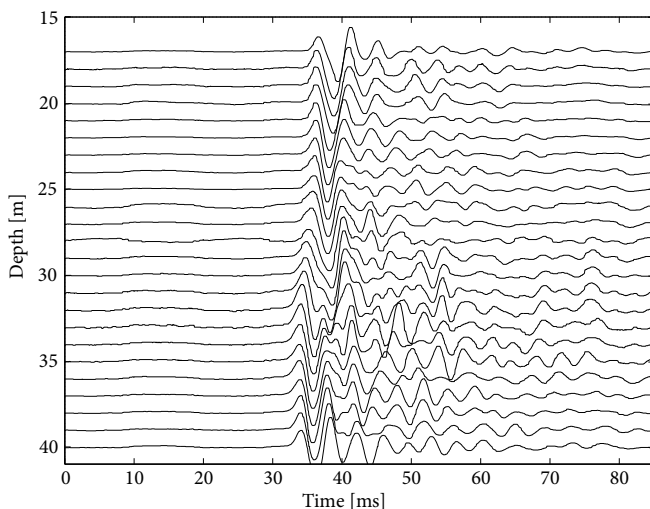
Sparker pulses are released through manual or automatic triggering of the impulse generator (IPG5000) controlled by the remote control unit (RCU). The RCU converts the reference signal of the impulse generator to an accurate time break with an accuracy of a few microseconds.

Signal Repeatability and Frequency Response

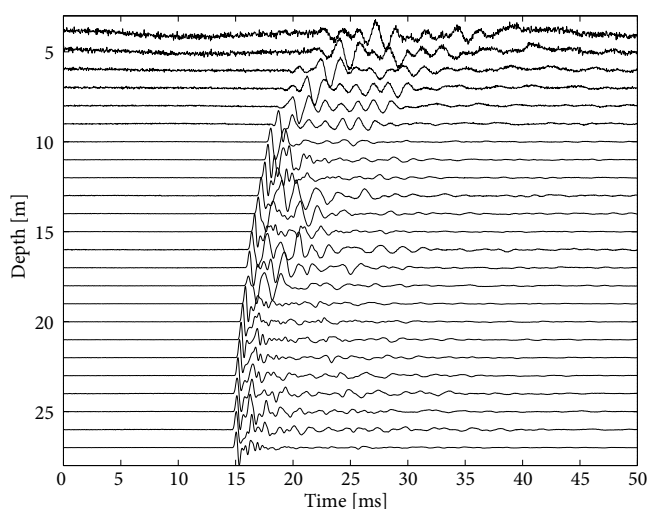
To estimate the source repeatability the calculation of the coherency spectra is used. Coherency values of „1“ indicate perfect repeatability whereas a coherency of „0“ expresses no repeatability. The test shows that the P-wave sparker source SBS42 is highly repeatable up to frequencies of 4-5 kHz.



Data Examples



Hard rock
Borehole distance: 100 m



Unconsolidated saturated sediments
Borehole distance: 25 m

