Innovative developments of an exploration method of a mobile type ACROSS transmitter

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The development is being made for a mobile type ACROSS transmitter, called HIT, which has been developed for field seismic exploration works. In this study, we report the preliminary data with a length of 50 sec and stacked for 25 minutes in the frequency range of 7 to 63 Hz at 13 temporary stations. Further the transfer functions, T(f) [m/N], are analyzed by SOMPI event analysis method (Hasada et al., 2001) to obtain a set of travel times, decay rates, amplitudes and phases for possible wave arrivals from the source. We could identify several arrivals that are consistent with the theoretical arrival in a studied area.