Ai-P004 Room: Lounge Time: June 28 12:30-14:00

Travel time analysis of frequency response function acquired by ACROSS: 1. Dispersion of body waves between 10 and 30 Hz

Yoko Hasada[1], Mineo Kumazawa[2], Takahiro Kunitomo[3]

[1] Earth and Planetary Sci., Nagoya Univ., [2] Tono, JNC, [3] JNC

http://www.eps.nagoya-u.ac.jp/epp/

The travel time analysis is made on the observed data of frequency response function of seismic wave traveled over the distance of ~200 m at test site of Tono mine. The data is acquired from 5 Hz to 35 Hz by ACROSS source installed on the ground surface and a synchronized feedback accelerometer set at the depth of 190 m in a borehole. The analyzing method is the AR modeling (Sompi method) of discrete frequency series to decompose the plural travel times with high resolution as a function of frequency. The result of analysis showed significant dispersion amounting to ~10 0.0000000 P, SV, and SH waves.