

Analysis of wide-angle reflection data in Tohoku, northeastern Japan

Tetsuya Takeda [1], Eiji Kurashimo [2], Takaya Iwasaki [3], Hiroshi Sato [1], Naoshi Hirata [1]

[1] ERI, Univ. Tokyo, [2] ERI, Univ. of Tokyo, [3] ERI, Tokyo Univ.

In Oct.1997, seismic refraction exploration using dynamite was made in Tohoku by Research Group of Explosion Seismology. The survey line transected across NEJapan island-arc from east to west. Viewing the observed waveforms, wide-angle reflection waves from lower crust are recognized clearly. In our study, because of mapping the reflectors in lower crust, we tried to analyze refraction data using reflection method. As our results, in Kitakami, reflectors contributed to lower crust are mapped about 5sec and 8sec in TWTT represently, and Moho about 11sec.