

2006 Seismic Expedition in Kii Peninsula, SW Japan

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In November 6, 2006, seismic refraction/wide-angle reflection survey was conducted in the eastern part of the Kii Peninsula. This experiment was one of the important branches of National research project of interplate earthquakes in SW Japan, and aimed to elucidate the geometry of the Philippine Sea (PHS) plate and inhomogeneous structure of the seismogenic zone in and around the 1944 Tonankai earthquake. The seismic line, 88km in length, is a northwest extension of offshore profile lines by JAMSTEC.

On this onshore line, 5 shot points (SP1-5) were set with a charge size of 400, 100, 200, 100 and 400kg, respectively, and 519 offline digital recording systems were deployed with an interval of about 170m.

The obtained records were of good quality, and clear first arrivals are recognized in almost the entire part of the profile. A number of later phases are also observed which are probably wide-angle reflections within the crust and subducted PHS plate.