

Deep seismic structure of the interplate seismogenic zone beneath the southern part of NE Japan arc

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In the off-Fukushima region, the interplate seismicity is active mostly in the landward half of the plate boundary zone. We try to estimate the seismic velocity structure of the above this seismogenic zone by jointly using land and ocean bottom seismographic data. The hypocenters of interplate earthquakes located by the land network alone and those by the OBS data show with a 3D heterogeneous structure model and found that these hypocenters are converged to a plausible plate boundary location. This result indicates that the deep structure of this area can be inverted from the land-OBS data set.