

Seismic velocity structure off-Fukushima fore arc region using controlled source

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In 1998, a seismic experiment was conducted by R/V Kairei in off-Fukushima region, Japan Trench. According to the preliminary results of airgun - OBS data, there is a layer, P wave velocity is 4 km/s, 3 km below sea floor, and there are two layers thought to be island arc upper crust and lower one. And there are some reflection signal which may be reflect from more deeper layer. On-land recorders were recorded the airgun signal simultaneously. Deep seismic velocity structure will resolve by on-land data and airgun - OBS data.