

Seismic investigation for the velocity structure around off-Ashizuri and western Shikoku

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In October, 1998, the seismic experiment using the airguns and fifteen ocean bottom seismographs (OBSs) was performed around the western Nankai trough, from off Ashizuri to western Shikoku. Some land stations also recorded the airgun signals. The length of the line is about 255 km. This observed area does not include the co-seismic slip area of the 1646 Nankaido earthquake. The objective of this study is to estimate the velocity structure along this line and clarify the difference of the structures between the off-Ashizuri and the off-Muroto. We obtained the preliminary results, and the velocity structure has the thick accretionary prism whose velocity is about 3 km/s around the arc slope. In this presentation, we report the preliminary results estimated using the airgun-OBSs data.