

P and S velocity structures of Kanto, Tokai and Chubu region

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We obtained 3 dimensional seismic P and S velocity structures of uppermost mantle beneath Kanto, Tokai and Chubu districts in Japan, by means of travel time tomography. We used 337,828 P arrival times and 302,694 S travel times observed by NIED seismic observation stations. The result showed the low velocity zones corresponding to the oceanic crusts of the subducted Philippine Sea plate beneath Kanto and Tokai districts. Aseismic subducted Philippine Sea plate is suggested by a little high velocity zone below the Chubu district. Below the volcanic front, there is another very low velocity area adjacent to the low velocity zones of the oceanic crusts.