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Heterogeneity of Vp/Vs ratio in the crust along Japanese Island arc inferred from local Wadati-diagram

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We applied to local Wadati diagram method to determine vp/vs ratio in the crust beneath Japanese island arc. We use trabel time picks for shallwer earthquake than 30km ocuured from 2003 to 2005 reported by JMA. Least square fittings are done for the data S-P time are less than 8s. We choosed accurate results which show smaller error less than 0.025. More than 30,000 results are obtained. To recognize regional features, we plot these data on the map and plot regional vp/vs .vs. depth with comparing entire dataset. Clear regionalities are obtained. In Kyushu, larger vp/vs are obtained in compariso with entire data. In contrast, vp/vs in Kinki and Chubu district, values are charaterized as smaller. In Shikoku and Kyushu average but concentrated distribution are obtained. We confirmed this method is available to detect larger scale lateral heterogeneity of the vp/vs distribution.