S149-P001 **Room: Poster Session Hall** **Time: May 29**

Spatio-temporal dsitribution of vp/vs values in crust along Japan revaled by Wadati diagrams

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We determine vp/vs ratio using Wadati diagrams for shallow earthquakes along Japan. Since in Japan dense seismograph network is available with average spacing about 30km, then we may detect vp/vs heterogeneity with logner scale than this spacing. We analyze all shallower evnets (less than 21km: Jan 1997- Oct 2007) which have more than 5 plots in Wadati diagram within S-P time less than 8s. We adopt high precision results (error in slope off Wadati diagram is less than 0.015). Total results show the peak 1.68 and histrgram is steeper in larger than this peak.

As a large scale variation, vp/vs is lower in Tohoku, central Japan, and larger in Chugoku and Kyushu district. Most clear anomalous distrubution is obtaind for just begininng of 2000 Miyakejima dyke intrusion event(1.75-1.80). For large earthquake occurence, vp/vs distribution expanding both larger and smaller. However shapes of the distribution before and after the events don't show significant difference. Only small decreasing features after large events found for Fukuoka, 2005; Chuetsu, 2004.This variation s are close to accuracy limit. In this study, we estimate average distrubtion of vp/vs valuese in Japan and it's regionality.