

## Estimation of attenuation factor ( $1/Q$ ) in Philippine Sea plate beneath Bungo-Suido

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We estimated attenuation coefficient ( $1/Q$ ) in the Philippine Sea plate beneath Bungo-Suido using the coda normalization method by Rizkita and Matsumoto (this meeting). Beneath Bungo-Suido, southwestern Japan, not only earthquakes but also aseismic slips and low-frequency tremors occur associated with subduction of Philippine Sea plate. The difference in type of slip could relate to heterogeneous structure in the plate. Attenuation factor ( $1/Q$ ) is an important parameter to know physical property in the medium, reflected anelasticity and/or strength of heterogeneity with short period. These factors could suggest a cause for the activity of the events. Rizkita and Matsumoto extended the coda normalization method to obtain  $1/Q$  in hypocentral area. We analyzed intermediate depth and deep earthquakes occurred. The obtained  $1/Q$  in deeper region becomes high. It is important information to consider seismogenic region. In addition, frequency dependency is smaller than that obtained in the crust.