

## Localized small-scale heterogeneities in the Hidaka region estimated by anomalous amplification of coda level

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We estimated spatial distribution of small-scale heterogeneities in the Hidaka region by coda analysis. First, we estimated the site effect of each station on events outside the region. Next, coda amplification factor (CAF) was obtained by the spectral ratio of coda after correcting the site effect. Heterogeneities are assumed to be localized between source and station if  $CAF \gg 1$ . In frequency lower than 4Hz, CAF is relatively large in the west, implying the possibility of strong heterogeneities with a scale of 0.2 - 1.5km there. In a high frequency range (>16Hz), coda was amplified on path crossing the Hidaka Mountains. From the corresponding lapse time of coda (65sec), there may be a zone mid concentrated heterogeneities beneath the Hidaka at depth of 80 km.