

Lateral heterogeneity of deep portion of OST -an example from the NTL in the Shimanto accretionary complex, SW Japan-

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Recent seismography reported some dynamical heterogeneity of faults (e.g, asperity, non-asperity and barrier) (e.g., Kasahara et al, 2003). Although several factor of the heterogeneity are suggested, the details are not clarified because of poorly reports of the fault rock analysis as same scale as seismography.

The objectives of this study is to confirm the large scale of dynamical heterogeneity of faults could be observed or not from the exhumed outcrop. The Nobeoka tectonic line (NTL), an ancient out-of-sequence thrust in the Shimanto accretionary complex, was examined based on the structural analysis, rock facies discription and illite crystallinity.

Some heterogeneity of thickness of the shear zones, cumulative displacement, deformation style and rock facies are observed and some dynamical heterogeneity of the NTL was suggested.