

The Okitsu Melange in the Cretaceous Shimanto accretionary complex; Their detailed internal structure and the origin

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Although the term of melange means chaotic broken formations, it is revealed that the Okitsu Melange in the Cretaceous Shimanto accretionary complex, southwest Japan preserves the geologic structure of the oceanic plate during the underplating in the subduction zone.

The detailed structural and geologic analysis, 1:250 in scale suggest the Okitsu Melange consist of repeated oceanic plate stratigraphy. Mud injection and hydrofracturing, syntectonic veins, a quartz clast with asymmetric pressure shadow in block-in-matrix structure show that the progressive deformation was occurred under the high pore fluid pressure and high P-T conditions.