

The out-of-sequence thrusts and the thermal structure in the Cretaceous Shimanto accretionary complex, southwest Japan

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The purpose of this study is to know the lithology, texture and evolution of the seismogenic fault rock in the subduction zone, Shimanto accretionary prism, southwest Japan from the thermal structure analysis based on the vitrinite reflectance.

It was revealed that the regional thermal structure is cut by more than ten small thrusts developing within the zone, 1 km in width. They are composed of the cataclasite with a little displacement. The great offset of the discontinuity of the thermal structure may cause by the cataclastic slip of the each fault.