

Decollement zone in the Izu arc-arc collision zone -An example from the southernmost Boso Peninsula-

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The decollement zone is discovered in the upper Miocene Nishizaki Formation Miura Group, southernmost Boso Peninsula, Central Japan. It is recognized as assembly of thrust systems with large amount of lateral shortening. It is different from the examples from Barbados and Nankai Trough which have scaly cleavage in the mudstone.

The Lithofacies are different between upper and lower part of the decollement zone. This suggest that the position of the decollement zone was controlled by changes of lithologic change and fluid behavior.

The southeast verging decollement zone is consistent with the major structures in the whole of the Nishizaki Formation. However, they might be formed in different stages.