Subsurface structure of the Median Tectonic Line active fault zone based on shallow seismic reflection surveys and geologic data

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The Median Tectonic Line active fault zone is composed of two types of active faults: the faults following the terrane boundary between the Sambagawa and Ryoke metamorphic rocks and faults located north of the terrane boundary. In order to reveal subsurface geometry between the two types of the fault, we have conducted seismic reflection surveys at Niihama City in central Shikoku and at Ichiba Town in eastern Shikoku. The migrated depth sections at the both sites depict that the terrane boundary fault dips gently to the north. The terrane boundary fault is not offset by the active Okamura and Chichio faults north of the terrane boundary, suggesting that these faults merge into the terrane boundary fault.