

Seismic reflection profiling across the Ichinose fault, southern part of Itoigawa-Shizuoka Tectonic Line active fault system

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We carried out seismic reflection survey across the Ichinose fault, southern part of Itoigawa-Shizuoka Tectonic Line. The acoustic stratigraphic sequence is identified with Units I, II, III, IV, V in descending stratigraphic order. Upper part of Unit I is sediment of Holocene, lower part is terrace deposit of Pleistocene. Unit II is the Nirasaki scoria flow. Unit III and Unit IV are Koma group. Unit V is granitic layer.

Two reverse faults are recognized. One is located at the boundary area between the Kofu basin and the Ichinose platform, and the other is located at the boundary area between the Ichinose platform and the Koma mountains. These faults are west dipping, and the west block thrust over the east block.