

Shallow seismic reflection profiling across the western marginal faults of Kitakami Lowland, Iwate Pref. (Isidoriya Line)

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Integrated passive and active seismic experiments have been conducting in the north-eastern honshu arc, Japan, since October 1997. These experiments are aimed to understand the relationship between an earthquake occurrence and a deformation process of the intra-island-arc crust. In August of 1998, a shallow seismic reflection survey was conducted to obtain the detailed fault's geometry to depths of 1km across the western marginal faults of Kitakami Lowland, Iwate Pref., Japan. Beneath the Kitakami Lowland, the shallower part of the CMP stacked section is characterized by flat reflector. On the other hand the western side of the fault is characterized by poor reflector.