

## Deep seismic reflection profiling across the Ou backbone range in northern Honshu, Japan

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To reveal deep fault geometry within a seismogenic layer, the deep seismic profiling across the Ou Backbone Range in northern Honshu was carried out in 1997-98. Obtained seismic reflection profiles show the existence of laminated lower crust in a volcanic arc and mid-crustal detachment. The 12-km thick upper crust of the Backbone Range forms a pop-up structure bounded by reverse faults.

