

Crustal deformation observed by a dense GPS network around Ou Backbone Range, NE Japan

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Since 1997 authors have established a dense GPS network around Ou Backbone Range, NE Japan to investigate the present deformation and to clarify deformation process of an arc-trench system and tectonics of inland earthquakes. Data both from the national network of GPS operated by the Geographical Survey Institute and the regional network of Tohoku University were combined in data analysis to reveal the detailed deformation and discuss its relationship to active faults around the region.