

Geological studies on Hatagawa fracture zone - exhumed inland seismogenic zone

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Hatagawa fracture zone is extended in the NS direction in the eastern part of Abukuma mountains, Fukushima, Northeast Japan. It is a left lateral fault and is considered to be a tectonic line between Abukuma belt and Kitakami belt. Hatagawa fracture zone is composed of well continuing cataclasite band with a width of 100m, mylonite zone (1 km maximum width) and small scale shear band. Host rocks are mostly Cretaceous granite. Mineral species and micro structure suggest that the Hatagawa fracture zone is an exhumed seismogenic zone at the depth of 5 to 10 km.