

## Density distribution in the vicinity of the Futaba Fault

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We carried out the gravity and GPS surveys in the vicinity of the Futaba Fault. The Futaba Fault extends over a distance of 100km along the eastern margin of the Abukuma Mountains. This fault was active in the Quaternary time. The Abukuma mountains were uplifted in Pliocene to early Pleistocene time.

Along the Futaba Fault, high anomalies with a width of 1-2 km are found in the Bouguer anomaly map. Rock samples corresponding to high anomalies, metavolcanic rocks, show mass-density of 2.82-2.84. On the other hand, granitic rocks on the west side of the Futaba fault are 2.66-2.70, sediments of the Sendai Group on the east side are 2.41-2.42.

Near Odaka town, high gravity anomalies are found, with a width of 8km and a length of 12km. Ultramafic rocks are seemed to be concealed under the sediments.