

Gravity anomaly around the Hakodate-Heiya-Seien fault zone, Hokkaido

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We carried out gravity survey (277 points) around the Hakodate-Heiya-Seien fault zone, Ohno Plane (Hakodate Plane), in Hokkaido and contoured Bouguer anomaly map. On the west of the Plane, a steep horizontal gravity gradient zone corresponds to the boundary fault, but not to the active fault. To interpret gravity anomaly, we made two-dimensional subsurface structure analysis along the section to cross the active fault and the boundary fault. Assuming that the density boundary corresponds to the boundary fault, the model suggests that the Kamiiso Mountain is thrust over the Ohno Plane.