

Estimation of Fault Structures by means of Dense Gravity Measurements (Part2)

Sachiko Iwano[1], Yoichi Fukuda[2], Tatsuya Ishiyama[3], Hiroshi Takiguchi[4]

[1] Dep. Geophysics, Kyoto Univ, [2] Geophysics, Kyoto Univ., [3] Earth and Planetary Sci., Kyoto Univ., [4] Dep. Geophysics, Kyoto Univ.

Dense gravity measurements were carried out to investigate detailed fault structures. Last year, we reported that obtained bouguer anomaly and expected bouguer anomaly from seismic prospecting data did not coincide well. We did not judge whether inadequate terrain correction caused these differences or actually there exist some anomalous density structures. In this study, we made 10m DEM (Digital Elevation Model) and calculated bouguer anomaly using both 50mDEM and 10mDEM. We concluded that inconsistency of two bouguer anomalies were caused by real anomalous density structures. We also discussed the effects of topographical changes around gravity stations on the accuracy of bouguer anomalies.