

## Gravity anomalies in Kusatsu-Shirane volcano

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The purpose of this study is to show the density structure of Kusatsu-Shirane volcano with the micro-gravity survey. Although a large number of researches have been carried out into the activity of Kusatsu-Shirane volcano, little is known about the geophysical structure. The micro-gravity survey has been carried out at 45 gravity stations around the summit of volcano. Locations of these stations were decided by the fast-static mode of GPS survey. The Bouguer anomaly map compiled from new data and gravity database (GSJ,2000) revealed low anomaly (-4.5mGal) in the eastern slope of the summit. This low anomaly has relationship with hypocenter distribution of earthquakes and tremors in the period from October 1989 to March 1990.