

Aeromagnetic survey on Kusatsu Shirane Volcano

Mitsuru Utsugi[1]; Yoshikazu Tanaka[2]; Yasuo Ogawa[3]; Jun-ichi Hirabayashi[4]

[1] Kyoto Univ.; [2] Aso Volcanological Laboratory Kyoto Univ.; [3] TITECH, VFRC; [4] VFRC, Tokyo Inst. Tech.

To investigate the magnetic structure of the Kusatsu Shirane Volcano, we made the aeromagnetic surveys in November of 2003. The measurement was made for two flight course, constant altitude above the terrain (150m) and constant altitude from sea level (2500m). The total distance of survey was about 160 km. For these surveys, we used two Geometrics G-858 magnetometers, utilizing a single cesium sensor, which allowed us to measure the geomagnetic total field and its spatial gradient simultaneously.