

**Aeromagnetic survey on Hokkaido Komagatake Volcano.**

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To investigate the magnetic structure of the Hokkaido Komagatake Volcano, we conducted the aeromagnetic surveys in September of 2001. The measurement was conducted along 29 parallel N-S lines with 750 m spacing and 9 parallel E-W lines with 1500 m spacing over the Komagatake Volcano using portable proton magnetometer. The altitude of flight was kept about 1800, 2300 and 2800m above the sea level, respectively. Using the observed magnetic data (total force), we have tried to investigate the broad-brush magnetic structure and anomalous magnetic structure due to the thermal distribution associated with the volcanic activities.