

Preliminary result of continuous observation with an iGrav superconducting gravimeter at the Teshikaga observatory, eastern Hokkaido, Japan

*Kazunari Nawa¹, Hiroaki Takahashi², Mako Ohzono², Kazumi Okada², Teruhiro Yamaguchi², Daisuke Oka³, Noritoshi Okazaki³, Ryo Honda⁴, Hiroshi Ikeda⁵

1. National Institute of Advanced Industrial Science and Technology, 2. Hokkaido University, 3. Geological Survey of Hokkaido, 4. Mount Fuji Research Institute, 5. University of Tsukuba

In November, 2018, continuous observation with the iGrav type superconducting gravimeter (# 017) was started at the Teshikaga Observatory of the Hokkaido University in order to carry out high spatiotemporal resolution gravity monitoring in the caldera / volcanic area in eastern Hokkaido. The gravity meter used in CCS project of Tomakomai site was temporarily relocated to the Minami-shinkawa Observatory in September of the same year and then moved to the Teshikaga Observatory from Minami-shinkawa at the timing before entering the snowy season . We report what kind of record is obtained by the superconducting gravimeter at each observatory in wide frequency band from the seismic to the geodetic band. The observation data will be registered in the Crustal Deformation Database of Hokkaido University for the purpose of archive, distribution and comparative analysis with other principle data.