

Gravity observation with a superconducting gravimeter in Bandung, Indonesia

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Considering the uneven spatial distribution of Superconducting Gravimeters (SGs) in early 1990s, a SG station near the equator had been highly desired. Under the support of Ocean Hemisphere Project, we moved a SG from Kyoto and installed it at the Volcanological Survey of Indonesia in Bandung, Indonesia,

The SG observation in Bandung started in December 1997 and supplementary observation of groundwater level started in January 2000. Using the data obtained so far, we conducted tidal analyses by means of BAYTAP-G for short period tides and BAYTAP-L for long period ones. The residual gravity signals after removing the tide signals, polar motion effects and instrumental drift, have a good correlation with the observed groundwater variations.