

Gravity observation using a superconducting gravimeter at Ishigakijima, Japan (part 3)

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About two years have passed since we started gravity observation by means of a superconducting gravimeter at the VERA Ishigakijima Station, National Astronomical Observatory Japan in 2012, with the main purpose of detecting possible gravity changes associated with the long-term slow slip events beneath the Yaeyama Islands. Up to now, we have experienced three times of events, which took place in May 2012, December 2012 and July 2013. For the two events in 2012, gravity changes possibly associated with the slow slip events were recorded. The July 2013 event was not well recorded because of the damages by the typhoon. In addition, an earthquake swarm near the Yaeyama Islands in April 2013 may have also influenced the observed gravity. The next slow event is expected to take place around February 2014. Modeling and interpretation of the data will be presented in the paper.

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