

## Japan Gravity Standardization Net and Tohoku Region Pacific Coast Earthquake

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The Geospatial Information Authority of Japan (GSI) carried out hybrid gravity survey (absolute observation + relative observation) to detect gravity change caused by Tohoku Region Pacific Coast Earthquake in Sendai, Hachinohe, and Ohsyu area. GSI surveys Sendai and Hachinohe area every 5 years. Because crust change of those areas are very active. Fortunately we carried out gravity survey in Sendai and Hachinohe half year earlier than Tohoku Region Pacific Coast Earthquake. By comparing gravity of last year and this year, we find gravity change in absolute observation.

We inspect change of Japan Gravity Standardization Net (JGSN75 and 96) that have been provided from GSI.

Although, land subsidence was detected in those areas, gravity value decreases at some observation station. We intend to inspect those gravity changes by using formularization of gravity change that is bases on dislocation theory(Okubo, 1994).

We will report results of gravity change of JGSN and model calculation.

Keywords: Gravity, Gravity Standardization Net, Tohoku Region Pacific Coast Earthquake