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Development of a new precise positioning technique using multi-GNSS signals

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Geospatial Information Authority of Japan (GSI) is developing and standardizing new precise positioning techniques which deal with multiple GNSS constellations, GPS, QZSS, GLONASS, and Galileo, in order to mainly encourage effective surveys at places where are currently difficult to carry out them using only GPS satellites.

In FY 2013, we examined analysis methods to correct Inter System Bias for using single/double differences between GPS and other GNSS. We developed the new analysis software named GSILIB based on RTKLIB developed by Mr. T.Takasu. In addition, we obtained multi-GNSS data in eight cities and evaluated the effects and problems using multi-GNSS signals.

This presentation shows results of FY 2013 and future plans from FY 2014.

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