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## Towards the Utilization of QZSS for GPS surveying: Test observation at Tsukuba Baseline Field

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Geospatial Information Authority of Japan (GSI) and Japan Aerospace Exploration Agency (JAXA) jointly conduct a test observation of Quasi Zenith Satellite System (QZSS) at Tsukuba Baseline Field of GSI. This is one of the first technical evaluations of GPS availability enhancement of QZSS.

We obtained GPS and QZSS data using JAXA's GNSS receivers manufactured by JAVAD at 14 stations for 24 hours. GPS baseline solutions with/without QZSS will be compared under various elevation cutoff angles using RTKLIB software developed by Tokyo University of Marine Science and Technology and GAMIT software modified by GSI.

Towards the early realization of multi-GNSS surveying environment, GSI will take necessary steps in collaboration with JAXA, including a new 4 year R&D project for multi-GNSS analysis method from 2011FY.

Keywords: QZSS, GPS augmentation, surveying