

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

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SGD021-P03

Room:Convention Hall

Time:May 23 14:00-16:30

Development of space geodetic analysis software c5++, Part-2

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New analysis software "c5++" is being developed at NICT, Hitotsubashi Univ and JAXA for high-precision geodesy/navigation data such as SLR (Satellite Laser Ranging) and VLBI (Very Long Baseline Interferometry).

This software is oriented for combining multiple types of observations, which is getting common in geodetic analyses and other purposes. The "c5++" software is equipped with the combination procedure such as "VLBI+SLR" data set at the observation level.

The physical models in Earth rotation, site displacement, satellite acceleration and propagation delay are being updated so that it has full compatibility with the newly-released IERS Conventions 2010.

The first outcome from this software is a rapid UT1 analysis from VLBI data. The poster contains the actual results from this project.

Keywords: space geodesy, satellite laser ranging, very long baseline interferometry