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Global solutions of International VLBI experiments data (2)

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http://vldb.gsi.go.jp/sokuchi/vlbi/

The International VLBI Service for Geodesy and Astrometry (IVS) has kept all VLBI experiments data from 1979 until now, and users can make free access to them. In Japan, CRL, NAO and GSI participated in international VLBI experiments and these data are also put in the IVS data server. If you analyze global VLBI data, you can get site positions, site velocities and source positions as global parameters, and EOP, clock parameters and atmosphere parameters as local (each session's) parameters.

NASA/GSFC, UNSO, Bonn Univ., BKG and Shanghai observatory analyzed the VLBI data globally and the results were used for determination of ITRF coordinates as essential data.

GSI started global analysis using CALC/SOLVE VLBI analysis software from April 2002 for the purpose of construction and maintenance of international terrestrial reference frame and determination of the coordinate value of Japan on the earth. I had already reported the pre-analysis result at the 98th Meeting of Geodetic Society of Japan in Kanazawa. This time, I succeed in the analysis using all data (about 3,500 sessions) from the dawn of VLBI (1979) until now. GSI's mobile VLBI experiments data that is used for the generation of Japanese Geodetic Datum 2000 (JGD2000) are included in the solution.

In this poster, we'll report the detail of the global solution.