

Analysis Center of Saint-Petersburg University

Oleg Titov

Abstract

This report summarises the information about current and future activity of analysis center of Saint-Petersburg University.

1. Analysis Center of Saint-Petersburg University

Analysis Center is located in Astronomical Institute of Saint-Petersburg University. This time the analysis center makes an analysis of NEOS-Intensives VLBI sessions for IERS as well as IVS (see part 4).

2. Technical Information

To estimate the UT1-UTC values we make a least squares analysis of the two-hour sessions using OCCAM 3.4 software. Wet delay for reference VLBI station; wet delay, clock offset and clock rate for other stations are regularly estimated. All reductional calculations are in accordance with IERS Conventions 1996. Niell's mapping function is applied for wet delay estimation. We download gzipped VLBI data file in Mark III format from USNO database.

3. Technical Staff of the Saint-Petersburg University Analysis Center

V.Vityazev - Director of Astronomical Institute of Saint-Petersburg University, PhD. General coordination and support of the activity at the Astronomical Institute.

O.Titov - associate professor of Saint-Petersburg University, PhD. Current processing of VLBI data.

4. Status of the Saint-Petersburg University Analysis Center

Analysis Center operates for quick analysis of two-hours VLBI sessions (NEOS-Intensives). UT1-UTC values are estimated and submitted to USNO and Paris Observatory biweekly. IERS takes the results for preparation of Bulletins A and B.

5. Outlook

We are going for next year:

- a. to process the regular weekly NEOS-A VLBI sessions.
- b. to make weekly comparison and combination of Intensive Series EOP.
- c. to provide a documentation about OCCAM software. OCCAM software to be upgrade using the recent recommendations of scientific groups collected since 1996 year.
- d. to participate in comparison of high-frequency EOP variations from different space geodetic techniques.