Torun (Tr) Station Report

(TOG Meeting, Bonn, December 4th, 2009)

Brief Report of Recent EVN Sessions Problems

In the May-June 2009 session our VLBI station (Tr) was scheduled to observe for 30 experiments in the three bands (18 cm, 6 cm and 5 cm). We observed all of them.. During the L-band part we mounted a new filter that rejects frequencies (with strong RFI) above about 1680 MHz. At the start of 6-cm part, which followed the L-band, we experienced a heavy loss of sensitivity. This affected essentially only the first two experiments at this band (there were FTP fringes in N09C2, but ubnormally weak), since our technitians fixed the problem soon after EP064G.

In the October-November 2009 session, with 26 experiments scheduled, there were only a few minor problems. The station n09m3 snp file for unknown reason did not contain calls to the preob procedure (this also happened in a few other stations). As a result the table of Tsys (antabfs) for this experiment could not be produced.

For these two sessions we have posted some of our calibration data in the internet in the form of graphs of the noise diode equivalent temperature (Tcal) and system equivalent temperature (Tsys) for each experiment. See these links:

http://www.astro.uni.torun.pl/~kb/Reports/Cal2009-2/Sesja09-2.html
http://www.astro.uni.torun.pl/~kb/Reports/Cal2009-3/Sesja09-3.html

Personnel Changes

No changes in this category.

Changes/Upgrades Made to Hardware/Software

Last summer the receiver cabin has been reorganized. Now the central 1m x 1m is occupied by the OCRA-f array (4x4 beams). All the other receivers are placed off-axis, including the OCRA-p system.

Shortly before the last EVN session one of computers in the control room (HP VXI) failed unrecoverably. It was used for acquisition of some data, for signal control and monitoring, so we lost certain facilities. In spite for resulting inconveniences, however, this loss did not affect VLBI observing in an appreciable manner.

There were no changes related to the VLBI terminal. Current software versions are as follows:

· Mark5A OS is Debian "Etch" version 4.0 with the package mark5a_1.0.2-i386.deb

· Mark5A application code is Mark5A2007y.225d

· FS 9.9.2 version has been used in both the sessions.

e-VLBI

Since the June session our station has participated in all regular and testing experiments organized by JIVE. There were 6 such experiments altogether, all successful.

Kaz Borkowski, Magda Kunert-Bajraszewska & Genek Pazderski