

Torun (Tr) Station Report

(Feb 7th, 2022)

Recent EVN Sessions

Two EVN sessions have been carried out since the previous report (Apr 26th, 2021).

May/Jun 2021 session.

Tr was scheduled in 29 regular disk projects at L, C and K bands. Short time before beginning of the session K band receiver become not operational due to LO amplifier failure. Therefore, we did not participate in K band part. EC077D was not carried out due to receiver's cooling system malfunction.

Oct/Nov 2021 session.

Tr was scheduled in 28 regular disk projects at L, C, X bands. K band receiver was still not functional as we waited for delivery of amplifier's parts. No major problems occurred with the exception of wrong LO frequencies sets during whole EM156B and 2 hours of EW025B.

Outside regular sessions (since last TOG report) Tr was scheduled in 6 e-EVN and 9 RG012 ToO experiments. RG012H and RG012I were cancelled due to power transformer planned maintenance and receiver failure respectively. Also, Tr participated in many PRECISE-VLBI experiments allocating total number of 501 hrs observing time during Jan 2021 - Feb 2022 period.

Current Development

The X-band receiver completed last year, successfully passed the first fringe test experiment at 8GHz in May 2021.

Changes/Upgrades Made to Software

Current software versions

- Mark5B unit:
 - Debian "Wheezy" version 7.11 (64-bit)
 - StreamStor driver version: 11.50 (SDK 9.4), API version 12.06, firmware version 13.05
- Field System version: 9.13.2
- jive5ab version: 2.9.0
- The DBBC firmware version in "tunable" mode is 1.07.

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