

Torun (Tr) Station Report

(Dec 4th, 2024)

Recent EVN Sessions

Three EVN sessions have been carried out since the previous report (Jan 20th, 2023).

Feb/Mar 2023 session.

Tr was scheduled in 29 regular disk projects at L, C and X bands. No major problems were noticed.

May/Jun 2023 session.

Tr was scheduled in 25 regular disk projects at L, C, M, X and K bands. No major problems were noticed.

Oct/Nov 2023 session.

Tr was scheduled in 38 regular disk projects at L, C, M, X, and K bands. No major problems were noticed. Two hours of EF030C experiments were lost due to antenna control computer failure. Corrupted log file was generated for EH043 possibly as a result of 80Hz continuous cal disappearance (no antab file available).

Torun successfully participated in all e-EVN experiments

Tr also participated in many PRECISE-VLBI experiments allocating total number of 492 hrs observing time during Nov 2022 - Nov 2023 period.

Cases of phase jump was partially solved. The reason was in a new time and frequency distribution unit, but the exact defective element is still unknown.

Toruń did not participate in K band experiments. The receiver after amplifier fixing seems to have good sensitivity however it was moved to a new location in focus box. As the receiver is not sensitive for point sources we suspect that it needs focusing (higher position in focus box)

Toruń DBBC3 unit has been sent to Bonn for upgrades and recalibration - unfortunately during return shipment there was an accident and the package arrived severely damaged. The impact was so hard that the aluminum box was punctured from the inside by the case, despite being covered by thick foam. All components inside were torn out from their positions, some were severely deformed. Currently the device is back in Bonn and the damage is being assessed.

Personnel Changes

As of Mar 1st 2023, Marcin Gawroński became a new vice head of Institute of Astronomy replacing Agnieszka Słowikowska.

Paweł Wolak

Roman Feiler

Marcin Gawroński