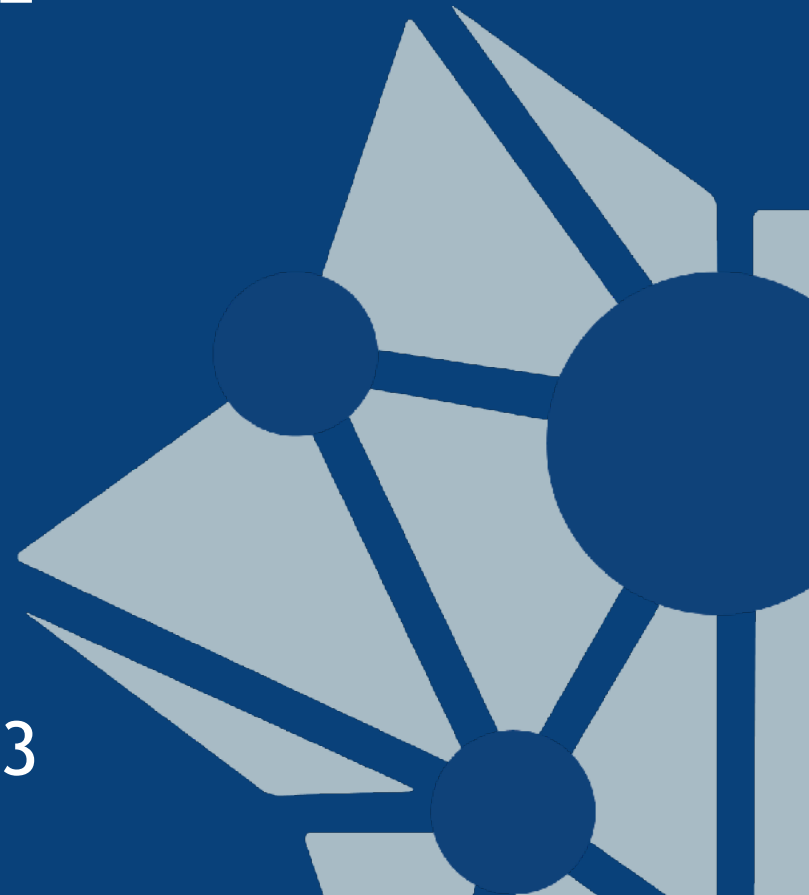


EVN Performance and Reliability

EVN Support Scientists at JIVE
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EVN TOG - December 13, 2023



Some highlights from 2023

- Still no Russian stations: big impact on (u,v) coverage
- 4 Gbps science experiments are becoming a thing (but still few)
- GMRT tests (FT047) and DBBC3 tests (in NMEs, N22K1 Od fringe) continue
- Torun phase instability fixed (in tests during May eVLBI)
- Urumqi has new 6.7 GHz receiver (first fringe in F23M1, Sess 3)
- Sardinia is back (fringe in N23C3, Sess 3)
- Polconvert update (Ivan Marti Vidal's visit)
- EVN website update and online trainings (currently in progress)
- EVN PI visitors (incl. first time users) at JIVE again

Generally things are good: busy year with most correlated hours ever. Need more stats? Please ask Bob Campbell or write us an email.



Main problems from 2023

- **Antab files**

1. **antabfs.py** --> flagging outliers? who is in charge of developing it?
--> occasional bad headers, multiple versions at various stations
2. **logs** --> Wb bad scan timestamps. In general: Status on opacity corrections?
--> bad Tsys values: T6 (flat), Ur (negative), Mc (noise), Wb (jumping)
--> in general: values in antabs became worse over last year (noisier)

- **Station Feedbacks**

Either not submitted consistently (eMerlin, Ir) or lacking any useful info even when we see problems (several stations consistently).

- **Bad communication (and no monitoring info)**

Not taking part in NMEs without notice (e.g Ir) or generally difficult to reach (Ur). Changing things last minute, without proper notice (several).

- **Schedules**

eVLBI has been very sparse for last few months, while sessions get very busy. Other: LST problems (partially on PI) and proximity to Sun.

