

# Network Monitoring Report: C-band N21C3

**Source:** J1751+0939 and J2031+1219    **Length:** 180 min.    **Observing mode:** Mk V, mode 2048/4096-16-2, dual pol.  
**Reference antenna:** Effelsberg    **Date of observations:** 21/10/21    **Reference date:** 21/10/21; 294d 12h 00m  
**Experiment code:** N21C3    **Date of report:** 17/01/21    **by:** Benito Marcote

- ⊗ According to expectation, no special remarks    ☐ Station did not observe (not scheduled)
- Problem occurred - see enclosed footnote(s)    ○ Entry not applicable/investigated

	Jb	Wb	Ef	Mc	Nt	O8	Sh	Ur	Tr	Ys	Hh	Sv	Zc	Bd	Ir	Km	Cm	Da	De,Kn,Pi
Station has observed	⊗	⊗	⊗	⊗	■	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	⊗
Station produced fringes (ftp)	⊗	⊗	⊗	⊗	☐	☐	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☐	⊗
Station produced fringes (disk)	⊗	⊗	⊗	⊗	☐	☐	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☐	⊗
Logs are available (within 72 hours)	⊗	⊗	⊗	⊗	☐	☐	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	○	☐	○
Antabs on vlbeer (within 7 days)	⊗	⊗	⊗	⊗	☐	☐	■	⊗	⊗	■	⊗	⊗	⊗	⊗	⊗	■	○	☐	○
Feedback on www (within 7 days)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	■	☐	■
GPS clock estimate gives fringes	⊗	⊗	⊗	⊗	☐	☐	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☐	⊗
Clock rate in psec/sec	0.03	0.32	0.23	0.04	-	-0.55	0.26	-0.76	0	1.5	0.07	-0.14	-0.03	0	-1.1	-3.7	-1.0	-	0.032
Recording okay	⊗	⊗	⊗	■	☐	☐	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☐	⊗
Polarization setup okay	⊗	⊗	⊗	⊗	☐	☐	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☐	⊗
Strong signal amplitude	⊗	⊗	⊗	⊗	☐	☐	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☐	⊗
Sampler statistics okay	⊗	⊗	⊗	⊗	☐	☐	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☐	⊗
Please check BBC number(s):	⊗	⊗	⊗	⊗	☐	☐	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	☐	⊗
Previous reported problem(s) corrected																			
Problem(s) first reported																			
See enclosed footnote(s):																			

**Enclosure:** Footnotes C-band N21C3

# Footnotes to the Network Monitoring Report: C-band N21C3

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## General:

Two different modes were tested: 2-Gbps datarate from scans 1 to 9, and 4 Gbps from scan 10 to 13. Bd, Zc, Sv, Ur, Sh, and Km stayed in 2-Gbps mode in the later; Wb at 1 Gbps; and Cm, Da, De, Kn, Pi at 512 Mbps.

- a) **Ef, Effelsberg:** Could not observe at the beginning of the observations due to strong winds.
- b) **Mc, Medicina:** High invalid and missing bytes in the recorded data.
- c) **Nt, Noto:** Could not participate as the DBBC is still being investigated. They could join later in the session.
- d) **O8, Onsala:** Could not observe due to strong winds.
- e) **Sh, Shanghai:** Issues with the noise tube. Loose cable resulted in likely single linear polarization.
- f) **Ur, Urumqi:** The  $T_{\text{sys}}$  recorded in the ANTAB file had unrealistically high values ( $\sim 3000\text{--}8000\text{ K}$ ).
- g) **Tr, Torun:** Issues with the control system (elevation motor). Fixed during the NME but then the antenna stowed due to strong winds.
- h) **Ys, Yebes:** Suffered a general power shutdown after scan06. Worked with the power generator.

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*Questions? marcote@jive.eu*

Report ends