

# Network Monitoring Report: L-band N21L2

**Source:** J0956+2515      **Length:** 180 min.      **Observing mode:** Mk V, mode 1024-8-2, full pol.  
**Reference antenna:** Effelsberg      **Date of observations:** 27/05/21      **Reference date:** 27/05/21; 147d 12h 00m  
**Experiment code:** N21L2      **Date of report:** 28/07/21      **by:** Benito Marcote

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

	Jb	Wb	Ef	Mc	Nt	O8	T6	Ur	Tr	Hh	Sv	Zc	Bd	Ir	Sr	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	0.06	-0.33	-0.014	-0.026	-	-0.5	0.8	-	0	0.07	-0.11	-0.025	0	-0.6	0.17	0.06	0.06	-	0.06	-
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):																				
<b>Enclosure:</b> Footnotes L-band N21L2	a	b			c		d	e		f		h		g			i		j	i

# Footnotes to the Network Monitoring Report: L-band N21L2

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## General:

The e-MERLIN stations exhibited off sampler statistics. For Cm, Kn, and Pi (RCP channels) it could be recovered during the NME.

- a) **Jb, Jodrell Bank (Lovell):** LCP amplitude consistently lower than RCP, but RCP seems more unstable along time.
- b) **Wb, Westerbork:** First EVN observations with the new maser. *Success.*
- c) **Nt, Noto:** Could not participate due to problems with the servo system.
- d) **T6, Tianma:** Joined at 14:00UT due to concurrent national tasks. Unrealistic Tsys values in the ANTAB file along the whole observation.
- e) **Ur, Urumqi:** Joined at 14:00UT due to concurrent national tasks. Communication problems between the filesystem and the antenna control computer preclude the observation.
- f) **Hh, Hartebeesthoek:** Leakage from RCP to LCP at the center of the band, as reported in previous NMEs. On-site limitations due to COVID restrictions have not allowed manual inspections.
- g) **Ir, Irbene:** Phase jumps of around 180 deg observed between some scans, happening only at times when gaps where inserted in the schedule (but not in every gap). *To be investigated.*
- h) **Cm, Cambridge:** Very low amplitude in LCP (fringes detected but with less than 10% amplitude with respect to RCP).
- i) **De & Pi, Defford & Pickmere:** Wrong sampler statistics, no fringes, no good bandpasses. Potential WIDAR-related issues.
- j) **Kn, Knockin:** Only LCP signal.

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Questions? [marcote@jive.eu](mailto:marcote@jive.eu)

Report ends