

# Network Monitoring Report: L-band N18L1

**Source:** J0237+2848 and J0530+1331  
**Reference antenna:** Effelsberg  
**Experiment code:** N18L1

**Length:** 180 min.  
**Date of observations:** 22/02/18  
**Date of report:** 02/08/18  
**Observing mode:** Mk V, mode 512-16-2, dual pol.  
**Reference date:** 22/02/18; 53d 13h 00m  
**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	O8	T6	Ur	Tr	Sv	Zc	Bd	Hh	Ir	Cm	Da	Kn	Ta
Station has observed	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	⊗	⊗	⊗	⊗
Station produced fringes (ftp)	■	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	■	■	■	■
Station produced fringes (disk)	■	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	■	■	■	■
Logs are available (within 72 hours)	○	⊗	■	⊗	⊗	■	⊗	⊗	■	■	■	⊗	○	○	○	○	○
Feedback on www (within 7 days)	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	■	■	■	■
GPS clock estimate gives fringes	○	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	○	○	○	○
Clock rate in psec/sec	-	-	-25.7	-7.6	2.2	38.8	67.6	-22.4	217	213	217	3.87	-	-	-	-	-
Recording okay	■	○	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	■	■	■	■
Polarization setup okay	○	○	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	○	○	○	○
Strong signal amplitude	○	○	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	○	○	○	○
Sampler statistics okay	○	○	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	○	○	○	○
Please check BBC number(s):				5-8,LCP													
Previous reported problem(s) corrected				■													
Problem(s) first reported	■	■					■										
See enclosed footnote(s):	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q

**Enclosure:** Footnotes L-band N18L1

# Footnotes to the Network Monitoring Report: L-band N18L1

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## General:

Data are affected by e-series firmware problems at several stations using DBBCs. This problem produces large variations of the amplitudes across the band and lost of sensitivity (see e.g. standard plots for cross-correlations in the EVN archive).

Sample statistics, while OK for all telescopes, look much less stable across the channels for the stations having the aforementioned e-series issue. Compare for example to KVAZAR stations that do not show such issue.

- a) **Jb, Jodrell Bank:** *Lovell* could not participate. *Mark2* did not show fringes. Suffered same problems than the eMERLIN outstations (see note *g* for details).
- b) **Wb, Westerbork:** Problems with the L-band receiver.
- c) **Mc, Medicina:** No LCP signal, or very low amplitude, for IFs 5 to 8 (*already reported in N17L3*).
- d) **T6, Tianma:** Sent only one linear polarization (*already reported in N17L3. Problem fixed after this NME/session*).
- e) **Ur, Urumqi:** Similar power at all Stokes. No cross-pols or linear pols. Unclear origin of the problem.
- f) **Ir, Irbene:** Could not participate.
- g) **Cm, Da, Kn, Ta, (eMERLIN outstations):** Same problem as Jb: During the NME the extraction of data was off by up to some minutes (random offsets each time), not allowing us to correlate the data. Data recording was not successful due to recording issues (tried to record all stations into one flexbuf, exceeding the writing speed. Most of the data were lost).

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

Report ends