

# Network Monitoring Report: C-band N09C3

**Source:** 3C454.3, J2254+1341, 3C84, 0234+285    **Length:** 360 min.    **Observing mode:** Mk IV, mode 256-8-2, RCP&LCP.  
**Reference antenna:** Effelsberg    **Date of observations:** 23/10/09    **Reference date:** 23/10/09; 296d 17h 30m  
**Experiment code:** N09C3    **Date of report:** 18/01/10    **by:** Jun Yang

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

	Kn	Ef	Jb	Mc	Nt	On	Sh	Tr	Ur	Wb	Ar	Hh	Mh	Ys	Da	R
Station has observed	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	
Station produced fringes (ftp)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗				⊗	⊗	
Station produced fringes (disk)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	
Filled in TRACK	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	
Logs are available (within 72 hours)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	
GPS data available (within 7 days)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	⊗				⊗	⊗	
Disks are available (within 7 days)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	
Feedback on www (within 7 days)	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	⊗				⊗	⊗	
GPS clock estimate gives fringes	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗				⊗	⊗	
Clock offset in $\mu$ sec	308.955	-26.035	1.279	-94.315	-10.706	-32.722	37.764	6.471	1.546	60.602				-1.193	53.015	
Clock rate in psec/sec	0.015	0.339	0.015	-0.702	0.332	○	0.769	-0.840	○	0.184				0.074	0.015	
Recording okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	
Polarization setup okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	
Strong signal amplitude	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗				⊗	⊗	
Phase cal aligns phases	○	○	○	○	○	○	○	○	○	○				○	○	
Sampler statistics okay	■	⊗	⊗	■	■	⊗	⊗	■	⊗	⊗				■	■	
Please check VC number(s):			3		6, 7				5					5, 7		
Previous reported problem(s) corrected																
Problem(s) first reported																
See enclosed footnote(s):	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>	<b>g</b>									

**Enclosure:** Footnotes C-band N09C3

# Footnotes to the Network Monitoring Report: C-band N09C3

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**General:** There were no ftp-fringe tests in N09C3. The ftp-fringe tests at C band were done in F09C2. Cambridge was replaced by the MERLIN out-stations: Knockin and Darnhall.

**a) Kn, Knockin:** It shared the same MK5A with Darnhall. The signal was supposed to feed into IF 2 and 3. However, we detected fringes only in IF 2. We tried tracks swap, but fringes in IF 3 were not found. Fraction of high bits was 25 – 30 % in all the BBCs, which was much lower than the optimal (36.4 %).

**b) Jb, Jodrell Bank:** The Lovell telescope was used. BBC 3 had low (0.8x) correlation amplitude.

**c) Mc, Medicina:** Fraction of high bits was a bit of too high: 45 % in BBC 5.

**d) Nt, Noto:** BBC 6 had low (0.85x) correlation amplitude. Fraction of high bits is too low: 28.5 % in BBC03. No fringes were detected in BBC 7. There was a clock jump (1 microsecond) at the beginning of scan 29 (22h32m UT).

**e) Tr, Torun:** The data could not be played back since scan 22 due to disk problems. Fraction of high bits was too low: 25 – 30 % in BBC 1 – 7, and too high: 45 % in BBC 8.

**f) Ur, Urumqi:** BBC 5 had low (0.6x) correlation amplitude.

**g) Ys, Yebe:** BBC 5 & 7 had low (0.8x) correlation amplitude. Fraction of high bits was too high: 50 % in BBC 5.

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*Questions? yang@jive.nl*

Report ends