

Network Monitoring Report: **L-band** N10L1

Source: J1935+2031, B1937+21, 3C84, DA193, J0552+3754

Length: 240 min.

Observing mode: Mk IV, mode 512-16-2, dual pol.

Reference antenna: Effelsberg

Date of observations: 04/03/10

Reference date: 04/03/10; 63d 12h 00m

Experiment code: N10L1

Date of report: 08/06/10

by: Mehreen Mahmud

⊗ According to expectation, no special remarks

■ Problem occurred - see enclosed footnote(s)

⊠ Station did not observe (not scheduled)

○ Entry not applicable/investigated

	EVN stations												
	Kn	Cm	Ef	Jb	Mc	Nt	On	Sh	Tr	Ur	Wb	Zc	Bd
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 μ sec	307.636	951.136	-21.18	-0.424	-102	-3	-32.185	46.211	5.811	0.64	61.854	-5.330	-1.845
Clock rate in psec/sec	-0.0271	-0.0271	1.2	-0.0271	6.18	-0.3	0.113	0.774	0.67	0.0313	0.192		
Recording okay	⊗	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Polarization setup okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Strong signal amplitude	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Phase cal aligns phases													
Sampler statistics okay	⊗	⊗	⊗	■	⊗	■	⊗	⊗	■	⊗	■	⊗	⊗
Please check VC number(s):	⊗	⊗	⊗	3	⊗	6	⊗	⊗	2	⊗	2	⊗	⊗
Previous reported problem(s) corrected													
Problem(s) first reported	N09L3												
See enclosed footnote(s):	a			b			c		d		e		f

Enclosure: Footnotes L-band N10L1

Footnotes to the Network Monitoring Report: **L-band** N10L1

General:

Fringes to all stations. Kn on BBCs 1 and 2, Cm on BBCs 3 and 4. Efelsberg and Torun had a late start due to Mrk 5 connection problems. Medicina, Onsala and Torun suffered from a bit of RFI in SB 7/IF 8 (feature at L-Band). Also note that N10L1 had 2 recording modes: 512 mbps and 1Gbps (only last scan). The Gbps mode was only correlated with the software correlator during the fringe test.

a) Cm, Cambridge: Faulty LO synthesizer replaced about 14:15 UT, which affected Cm but not Kn. Fringes were therefore not seen for Cm in the first two ftp scans.

b) Jb, Jodrell Bank: Frequent telescope encoder faults resulting in brief periods offsource (from experiment feedback page). BBC 3/LSB (SB2/LL) had low auto correlation amplitude (0.5x) corresponding to very low fraction of high bits to low bits (17%). Huge RFI at 1682 MHz occurs in BBCs 7 and 8.

c) Nt, Noto: Noto stopped observing after second ftp scan (13:45 UT) due to high winds. Very low auto correlation amplitude (0.1x) in BBC 6/LSB (SB 4/LL).

d) Tr, Torun: BBC 2/USB (SB1/LL) had low auto correlation amplitude (0.6x).

e) Wb, Westerbork: 12 Telescopes in array, no RT1 and RT5 (from experiment feedback page). BBC 2/LSB (SB0/RR) failed to reach optimal fraction of high bits (mostly oscillating between too high and too low). This is a noted feature of RFI at L-Band in this particular subband.

f) Bd, Badary: Disk packs not sent to JIVE.