Network Monitoring Report: **L-band** N10L2

Source: 4C39.25, 1145+268, 1146+286, 1156+295   **Length:** 180 min.   **Observing mode:** Mk IV, mode 512-16-2, dual pol.
Reference antenna: Effelsberg   **Date of observations:** 04/06/10   **Reference date:** 04/06/10; 155d 12h 00m
Experiment code: N10L2   **Date of report:** 19/07/10   **by:** Mehreen Mahmud

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

	EVN stations												
	Da	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 μsec	52.37	951.81	−15.273	−0.35	−90.046		−31.004	52.412	9.419	0.759	63.857	−2.42	−2.98
Clock rate in psec/sec	−0.0142	−0.0142	0.826	−0.0142	2.61		0.184	0.771	0.247	0.0243	0.184	−0.325	0
Recording okay	⊗	⊗	⊗	⊗	⊗		⊗	⊗	⊗	⊗	■	⊗	⊗
Polarization setup okay	■	⊗	⊗	⊗	⊗		⊗	⊗	⊗	⊗	⊗	⊗	⊗
Strong signal amplitude	⊗	⊗	⊗	⊗	⊗		⊗	⊗	⊗	⊗	⊗	⊗	⊗
Phase cal aligns phases													
Sampler statistics okay	⊗	⊗	⊗	⊗	■		⊗	⊗	■	⊗	■	⊗	■
Please check VC number(s):	⊗	⊗	⊗	⊗	6,8		⊗	⊗	2,7,8	⊗	2	⊗	all
Previous reported problem(s) corrected					⊗								
Problem(s) first reported													
See enclosed footnote(s):	a				b				c		d		e

Enclosure: Footnotes L-band N10L2

Footnotes to the Network Monitoring Report: **L-band** N10L2

General:

Fringes to all stations. Nt did not observe due to mechanical problems with the antenna.

a) Da, Darnhall: Da initially had swapped polarizations, corrected soon after the first ftp scan.

b) Mc, Medicina: BBC 6 and 8 (LSB and USB) had slightly lower auto correlation amplitudes. The fraction of high bits to low bits was lowest for BBC 8/USB at 22%.

c) Tr, Torun: BBC 2/USB, BBC 7/LSB and BBC 8/LSB had slightly lower auto correlation amplitudes. The fraction of high bits to low bits was lowest for BBC 2/USB at 22%.

d) Wb, Westerbork: Data from the first ftp scan was unreadable; after changing the diskpack, the ftp files were ok. BBC 2/LSB 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.

e) Bd, Badary: Failed on last two scans due to power failure. All BBCs had slightly higher than optimal fraction of high to low bits (41-48%), corresponding to slightly higher auto correlation amplitudes of 1.1 - 1.3x.