

# Network Monitoring Report: X-band N11X1

**Source:** J0237+2848 and J0530+1331    **Length:** 180 min.    **Observing mode:** Mk IV, mode 512-8-2, RCP & LCP.  
**Reference antenna:** Effelsberg    **Date of observations:** 14/03/11    **Reference date:** 14/03/11; 73d 12h 00m  
**Experiment code:** N11X1    **Date of report:** 23/05/11    **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

	Bd	Ef	Zc	Mc	Nt	On	Sh	Sv	Ur	Wb	Ed	Hh	Mh	Ys
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	-2.663	5.373	-1.790	-57.565	-26.674	71.575	-1.974	1.467	68.518	7.397	7.402	-0.817		
Clock rate in psec/sec	○	-0.752	○	0.328	0.416	0.802	○	-0.006	0.190	-0.752	-0.272	0.195		
Recording okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Polarization setup okay	⊗	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	⊗	⊗	⊗
Strong signal amplitude	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Phase cal aligns phases	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Sampler statistics okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Please check VC number(s):														
Previous reported problem(s) corrected														
Problem(s) first reported														
See enclosed footnote(s):														
<b>a</b>														
<b>b</b>														
<b>c</b>														

**Enclosure:** Footnotes X-band N11X1

# Footnotes to the Network Monitoring Report: X-band N11X1

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**General:** In the last scan, a new mode 1024-16-2 in RCP only was tested. The test went successful for most stations. As the limitation of the TADUmax, Wb is supposed to show fringes in half channels. On the baselines to Wb, fringes were seen only in IF2. There was no fringes to Bd as it was still in 8MHz/subband mode. No fringes found on the baselines to Zc. All the problems were most likely operational mistakes and should not affect the future observations with the new mode. Moreover, the Kunming 40m radio telescope participated in the experiment to test its new backend, a Mark4 backend upgraded with a Mark5B recorder. The new system works well except for a minor problem: high and variable DC component in most subbands.

- a) **Ef, Effelsberg:** Polarisation swap was found in the first ftp scan and then fixed after scan 6.
- b) **Wb, Westerbork:** BBC 3-6 USBs had much larger delay. The problem was not seen in the following user experiment EM085.
- c) **Ed, Effelsberg DBBC backend:** DBBC fringe SNR is getting close to module BBCs. Bandpass mismatch at the edge of subbands was seen on the baselines to the EVN stations with module BBCs.

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*Questions? yang@jive.nl*

Report ends