

# Network Monitoring Report: **K-band** N13K2

**Source:** 4C39.25, J0923+3849, J1310+3220    **Length:** 120 min.    **Observing mode:** Mk IV, mode 1024-8-16, dual pol.  
**Reference antenna:** Effelsberg    **Date of observations:** 10/06/13    **Reference date:** 10/06/13; 161d 12h 00m  
**Experiment code:** N13K2    **Date of report:** /08/13    **by:** Gabriele Surcis

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

	Ef	Jb	Mc	Nt	Tr	Ys	Mh	Zc	Bd	Ur	Sh	Hh	Ky	Ku	Kt	Od	Nd	Td	Hd
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	-16.397	-7.937	-4.322	-12.920	-3.639	-3.083	-2.194	214.924	213.291	4.694	131.642	-0.145	-6.740	-4.677	-3.450	85.532	-3.170	6.283	1.716
Clock rate in psec/sec	-0.243	-0.161	-0.158	-0.469	-0.056	0.104	-0.008	0.239	0.000	0.235	0.768	0.176	-0.691	-0.520	-0.275	0.622	-0.469	0.061	0.283
Recording okay	⊗	⊗	⊗	⊗	■	■	○	⊗	⊗	⊗	⊗	⊗	■	⊗	⊗	⊗	■	■	■
Polarization setup okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Strong signal amplitude	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Phase cal aligns phases	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗
Sampler statistics okay	⊗	■	⊗	⊗	■	⊗	■	⊗	⊗	⊗	■	⊗	⊗	⊗	⊗	⊗	⊗	■	⊗
Please check VC number(s):		7			4,5		most of				all							all	
Previous reported problem(s) corrected																			
Problem(s) first reported																			
See enclosed footnote(s):		a	b	c	d	e	f				g		h				i	j	k

**Enclosure:** Footnotes K-band N13K2

## Footnotes to the Network Monitoring Report: **K-band** N13K2

**General:** Od is On with DBBC, Nd is Nt with DBBC, Td is Tr with DBBC, Hd is Hh with a DBBC.

**a) Jb, Jodrell Bank:** poor Sampler Statistics in BBC 7 (from ftp-fringe test report).

**b) Mc, Medicina:** the POLY numbers of the antabfs file (provided by the antenna) produce a gain curve for which sources with DEC > 25° have gain=0. If we keep these numbers during the pipeline all the data related to MC are deleted. If we consider POLY=1.0000E+00 the data are not deleted. The pipeline results after APCAL are obtained with this gain curve.

**c) Nt, Noto:** observed only LCP.

- d) **Tr, Torun:** the first 40 minutes were observed with a wrong LO, consequently no fringes before 12:38 UT. Bad Sampler Statistics in BBCs 4 and 5 (from ftp-fringe test report).
- e) **Ys, Yebes:** had a problem with calibration diode and LO frequency. The problem was solved during the observations. Fringes from 13:40 to the end.
- f) **Mh, Metsahovi:** no fringes probably due to the format of the schedule for the DBBC (from Experiment Feedback). Bad Sampler Statistics in most of the DBBCs (from ftp-fringe test report).
- g) **Sh, Shanghai:** poor Sampler Statistics in all the BBCs (from ftp-fringe test report).
- h) **Ky, KVN Yonsei:** had a problem with Mark5B recording from scan 3 (12:12 UT) to scan scan 14 (12:35 UT). The problem was due to a time synchronization error (from Experiment Feedback).
- i) **Nd, Noto (DBBC):** observed only LCP. Strange bandpasses in all the subbands.
- j) **Td, Torun (DBBC):** strange bandpasses in all the subbands. Bad Sampler Statistics in all the DBBCs (from ftp-fringe test report).
- k) **Hd, Hartebeesthoek (DBBC):** strange bandpasses in all the subbands. Stronger LCP fringes than RCP fringes (from ftp-fringe test report).