

Network Monitoring Report: K-band N13K1

Source: 0234+285, 0355+508, and 3C84 **Length:** 120 min. **Observing mode:** Mk IV, mode 1024-16-2, RCP & LCP.
Reference antenna: Effelsberg **Date of observations:** 27/02/13 **Reference date:** 27/02/13; 058d 11h 00m
Experiment code: N13K1 **Date of report:** 02/07/13 **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

	Jb	Ef	Zc	Bd	Nt	On	Sh	Sv	Ur	Tr	Ys	Hh	Mh	Ku	Kt	Ky
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	-8.797	-13.787		-9.694	71.444	124.868	3.647	-0.861	-3.304	10.220	-0.121	-1.257	18.388	-18.484		
Clock rate in psec/sec	-0.152	-0.220		-0.174	0.467	0.777	0.138	-0.782	-0.044	0.713	-0.037	-0.520	-0.410	-0.787		
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):	a	b	c	d	e	f	g	h	i	i	i					

Enclosure: Footnotes K-band N13K1

Footnotes to the Network Monitoring Report: K-band N13K1

General: There were the first fringes to Medicina new K-band receiver. The KVN stations Yonsei (Ky), Ulsan (Ku) and Tamna (Kt) also participated the observations and sent disk packs to JIVE. There were beautiful fringes to all the KVN stations in the production correlation.

- a) **Jb, Jodrell Bank:** No noise diode for the Tsys measurement. Its SEFD was ~ 10 times higher than the nominal value (910 Jy) in the EVN status table according to the pipeline-calibrated 3C84 data.
- b) **Zc, Zellenchukskaya:** Out due to no diskpacks. There were some problems with Russian shipping company. The diskpacks were not received in time.
- c) **Nt, Noto:** Fringe were shown for around 5 minutes (at 11h15m) in LCP. In the later using experiments, fringes to Noto were clearly seen and quite stable.
- d) **On, Onsala:** Onsala DBBC was also tested. Od had fringers significantly weaker than On.
- e) **Sv, Svetloe:** Out due to instrumental problems.
- f) **Ur, Urumqi:** No fringes in VC 2-8 LSB because the switch in front of its MKIV backend was set to local instead of remote. This mis-creation caused the system staying in the previous geodetic recording mode.
- g) **Hh, Hartebeesthoek** There were good fringes to both MK4 and DBBC backends in the production correlation.
- h) **Mh, Metsähovi:** DBBC was used. No fringes in LCP. The problem was also seen in the later K-band user experiments.
- i) **KVN:** The 3rd RCP subband had slightly lower (around 0.8x) correlation amplitude because the magnitude bit stream was not properly set in the correlation vex file.

Questions? yang@jive.nl

Report ends