

Network Monitoring Report: K-band N12K1

Source: 3C84 and 0528+134 **Length:** 180 min. **Observing mode:** Mk IV, mode 512-8-2, RCP & LCP.
Reference antenna: Effelsberg **Date of observations:** 29/02/12 **Reference date:** 29/02/12; 60d 12h 30m
Experiment code: N12K1 **Date of report:** 16/05/12 **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 | Mc | Nt | On | Sh | Sv | Ur | Wb | Od | Hh | Mh | Ys | Wz |
|--|----------|----------|----------|----------|----------|-------|---------|--------|---------|-------|--------|-------|----|----|----|
| 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 | -0.100 | -4.417 | 216.797 | | -11.896 | 99.12 | 216.797 | 0.454 | -11.896 | 7.291 | -1.987 | 6.695 | | | |
| Clock rate in psec/sec | -0.012 | -0.47 | | | 0.572 | 0.566 | | -0.066 | 0.572 | 0.004 | 0.013 | 0.625 | | | |
| 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 | | | | | | | | | | |

Enclosure: Footnotes K-band N12K1

Footnotes to the Network Monitoring Report: K-band N12K1

General: There was a FTP-FT only experiment F12K1 before N12K1. The 1st fringes to Urumqi new 22 GHz receiver was successfully found in F12K1.

- a) **Jb, Jodrell Bank:** As its receiver was not cooled, fringes to Jb were not as strong as it should be. Correlation amplitude in RR was a factor of 2 lower than that in LL.
- b) **Ef, Effelsberg:** Its DBBC backend was used. BBC 8 LSB had clearly different instrumental delay, which is easily seen on the baseline Ef-Od, and slightly lower correlation amplitude comparing with other BBC channels.
- c) **Ur, Urumqi:** Weak fringes in LCP VC5 LSB&USB and RCP VC8 LSB.
- d) **Od, Onsala DBBC backend:** Fringes on baselines to Od were as strong as on baselines to MK4 backend. The earlier report of weak fringes in ftp fringe tests were most likely due to the large clock offset (103 lags).
- e) **Hh, Hartebeesthoek and Mh, Metsähovi:** There were fringes in all subbands in the post production correlation. The earlier FTP-FT report of no fringes was because the observed calibrator sources are not bright enough for both Hh and Mh (SEFD \approx 1000 Jy) at 22 GHz

Questions? yang@jive.nl

Report ends