

Network Monitoring Report: M-band 4cm N23M2

Source: J1430+1043 and J1613+3412 **Length:** 180 min. **Observing mode:** 256 Mbps, 16x4 MHz, 2 bits, dual pol.
Reference antenna: Effelsberg, Tianma **Date of observations:** 25/10/23 **Reference date:** 298d 08h 00m
Experiment code: N23M2 **Date of report:** 15/01/24 **by:** Gabor Orosz

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

	Jb2	Wb1	Ef	Mc	O8	Ur	T6	Tr	Hh	Ib
Station has observed	⊗	⊗	⊗	⊗	⊗	■	⊗	⊗	⊗	■
Station produced fringes (ftp)	⊗	⊗	⊗	⊗	⊗	☐	⊗	⊗	⊗	☐
Station produced fringes (disk)	⊗	⊗	⊗	⊗	⊗	☐	⊗	⊗	⊗	☐
Logs are available (within 72 hours)	⊗	⊗	⊗	⊗	⊗	☐	■	⊗	⊗	☐
Antabs on vlbeer (within 7 days)	■	⊗	⊗	■	⊗	☐	⊗	⊗	⊗	☐
Feedback on www (within 7 days)	⊗	⊗	⊗	⊗	⊗	☐	⊗	⊗	⊗	☐
GPS clock estimate gives fringes	⊗	⊗	⊗	⊗	⊗	☐	⊗	⊗	⊗	☐
Clock rate in psec/sec	0.09	0.12	0.23	0.08	-0.64	-	0.78	2.1	0.03	-
Recording okay	⊗	⊗	⊗	⊗	⊗	☐	⊗	⊗	⊗	☐
Polarization setup okay	⊗	⊗	⊗	⊗	⊗	☐	⊗	⊗	⊗	☐
Strong signal amplitude	⊗	⊗	⊗	⊗	⊗	☐	⊗	⊗	⊗	☐
Sampler statistics okay	⊗	⊗	⊗	⊗	⊗	☐	⊗	⊗	⊗	☐
Please check BBC number(s):	03/11						03/07	03/11	03/11	
Previous reported problem(s) corrected										
Problem(s) first reported										
See enclosed footnote(s):	a	b	c		d	e	f	g	h	■

Enclosure: Footnotes M-band 4cm N23M2

Footnotes to the Network Monitoring Report: **M-band 4cm N23M2**

General:

1) There are RFI-like spikes at ca. 6670 MHz, which show up at multiple stations: Jb2/Tr/Hh (BBC03/11, LSB, RCP/LCP) and T6 (BBC03/07, LSB, RCP/LCP). The noise is the strongest at Tr.

2) The first fringe finder source (J1430+1043) is much fainter than the second one (J1613+3412), so for the initial scans the fringe quality is low on some baselines.

a) **Jb2, Jodrell Bank Mark 2** Possible RFI (see general notes). Also, no Tsys information as CAL diode failed, making the TPI measurements meaningless.

b) **Ef, Effelsberg:** Observed linear polarizations, which were left uncorrected for this report.

c) **Mc, Medicina:** Recorded data with the DBBC3 in parallel. To be correlated in a later time at JIVE. Also, no Tsys information uploaded.

d) **Ur, Urumqi:** Could not participate in the observations (was not originally scheduled). For M-band fringes, see F23M1.

e) **T6, Tianma:** Possible RFI (see general notes). No log files uploaded.

f) **Tr, Torun:** Possible RFI (see general notes). It is the strongest at this station.

g) **Hh, Hartebeesthoek:** Possible RFI (see general notes).

h) **Ib, Irbene 16m:** Did not take part in the observation and gave no notice about it. No feedback.