EVN Amplitude Calibration

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EVN TOG MEETING, Ventspils, May 23

JIVE
Joint Institute for VLBI ERIC

EUROPEAN
NETWORK

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- The following table gives the **median absolute error** in the antenna gain amplitude. This number will be approximately half the error in the SEFD and is the same that you see in AIPS gain plots. The number in brackets after each entry is the number of experiments that were used.

	21cm	18cm	6cm	5cm	1.3cm
BD		0.12 (3)			0.22 (11)
EF	0.01 (1)	0.08 (2)	0.03 (9)	0.07 (19)	0.15 (11)
HH	0.02 (1)	0.05 (3)	0.19 (1)	0.05 (7)	0.23 (5)
IR			0.09 (4)	0.09 (18)	
JB	0.17 (1)	0.19 (3)	0.24 (4)	0.10 (19)	0.50 (10)
MC	0.14 (1)	0.09 (3)	0.07 (9)	0.11 (19)	0.16 (11)
NT			0.08 (9)	0.14 (19)	0.12 (11)
ON	0.02 (1)	0.05 (3)	0.06 (9)	0.08 (19)	0.31 (6)
RO		0.11 (2)			
SR		0.26 (2)		0.05 (16)	0.12 (11)
SV		0.04 (3)			0.25 (11)
TR	0.19 (1)	0.18 (3)	0.06 (9)	0.10 (19)	0.21 (10)
T6		0.09 (3)	0.06 (7)	0.04 (2)	
UR	0.10 (1)	0.14 (2)			
WB	0.07 (1)	0.09 (3)	0.06 (9)	0.18 (18)	
YS			0.05 (9)	0.06 (19)	0.10 (11)
ZC	0.08 (1)	0.14 (3)			0.23 (9)

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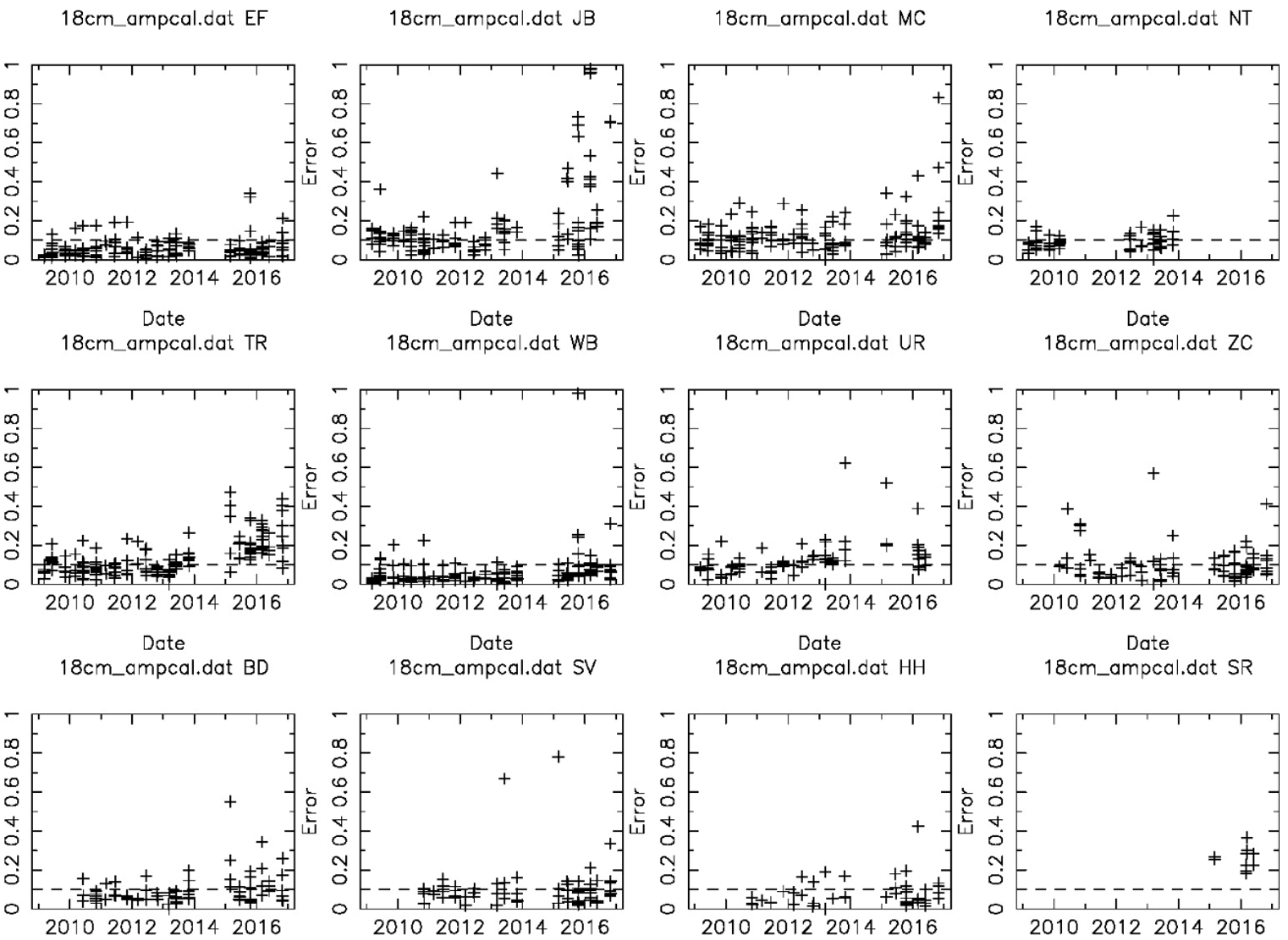
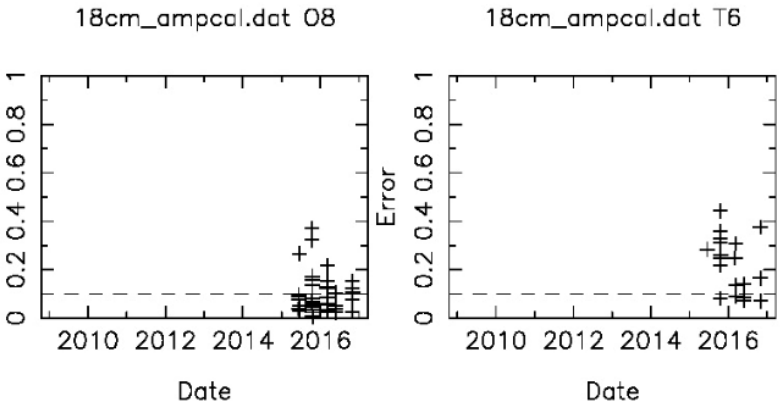
- The following table gives the **median absolute error** in the antenna gain amplitude. This number will be approximately half the error in the SEFD and is the same that you see in AIPS gain plots. The number in brackets after each entry is the number of experiments that were used.

	21cm	18cm	6cm	5cm	1.3cm
BD	0.18 (1)	0.07 (5)	0.09 (10)		0.35 (4)
EF	0.08 (2)	0.08 (7)	0.06 (22)	0.06 (4)	0.15 (4)
HH		0.10 (4)	0.04 (16)		
IR			0.08 (2)	0.04 (1)	
JB		3.80 (5)	0.64 (18)	0.05 (4)	0.35 (4)
MC	0.16 (2)	0.20 (7)	0.08 (22)	0.10 (4)	0.21 (4)
NT			0.08 (19)	0.14 (4)	
ON		0.10 (7)	0.09 (17)	0.06 (4)	0.23 (4)
SR					0.15 (4)
SV	0.20 (2)	0.09 (5)	0.05 (10)		0.52 (4)
TR	0.34 (2)	0.20 (7)	0.07 (15)	0.07 (4)	0.60 (4)
T6		0.17 (3)	0.13 (7)	0.05 (3)	
UR					1.5 (4)
WB	0.07 (2)	0.08 (7)	0.08 (22)	0.12 (4)	
YS			0.05 (21)	0.05 (4)	0.64 (2)
ZC	0.21 (2)	0.10 (6)	0.52 (15)		1.3 (3)

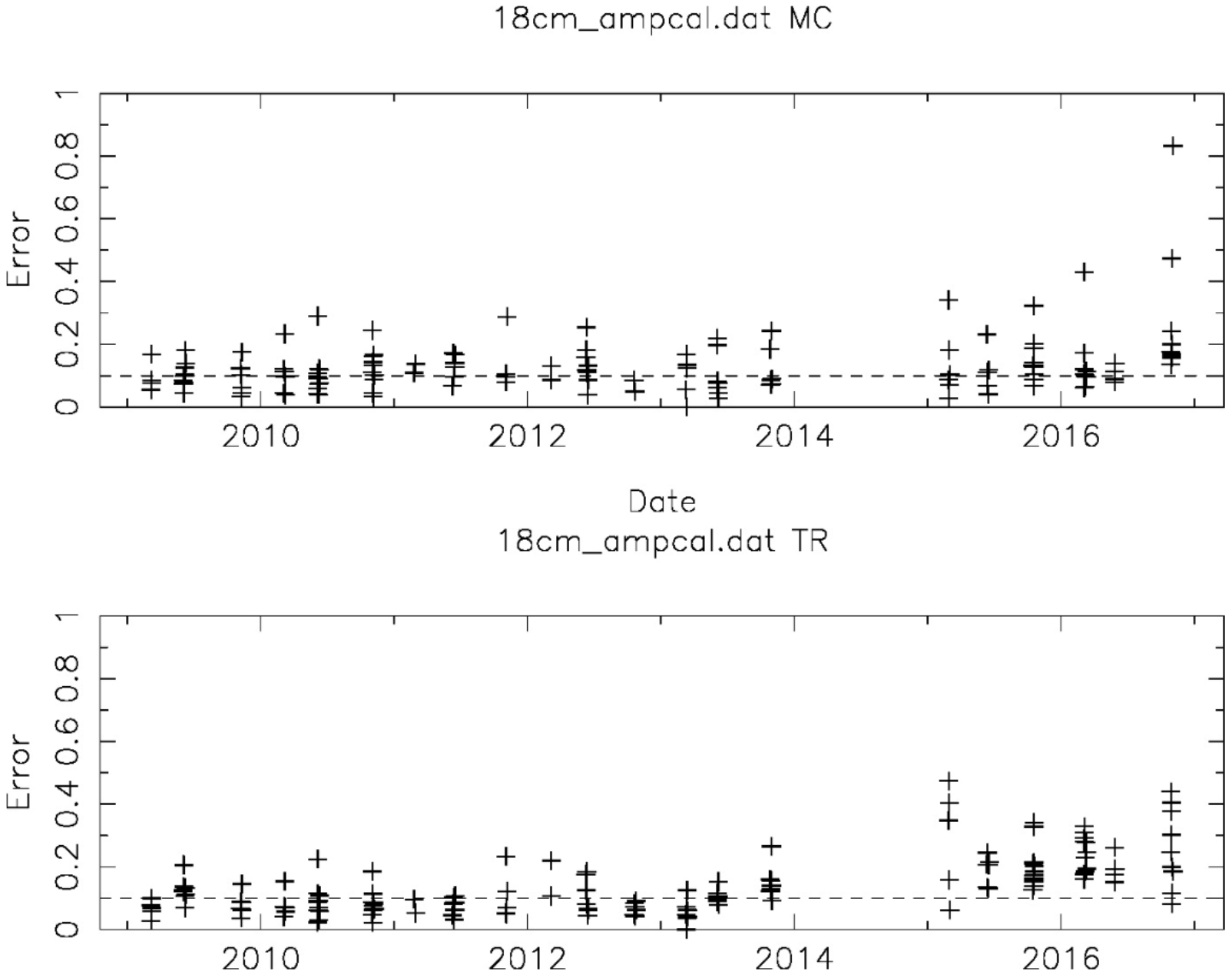
18/21cm ampcal vs time



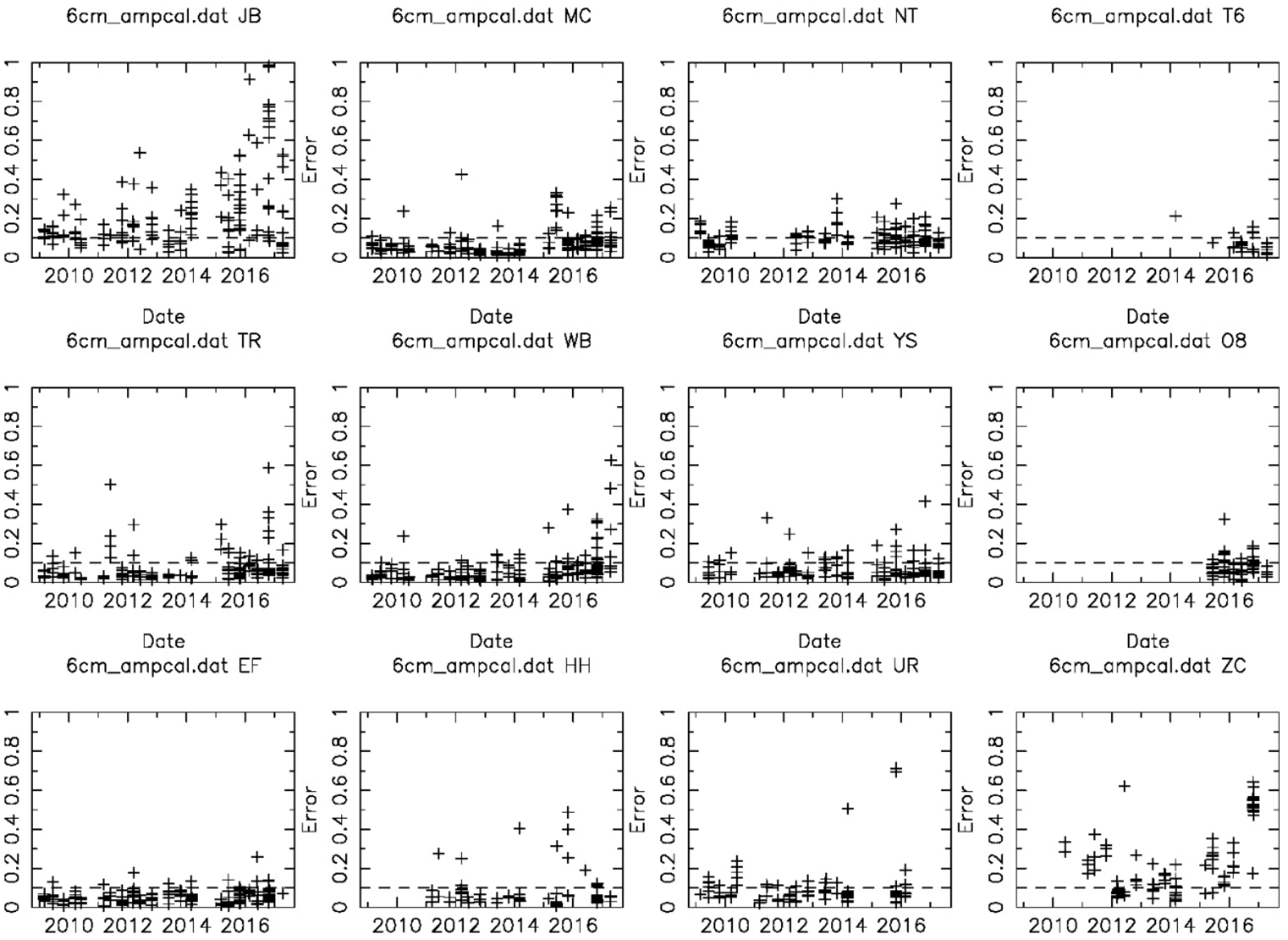
18/21cm ampcal vs time



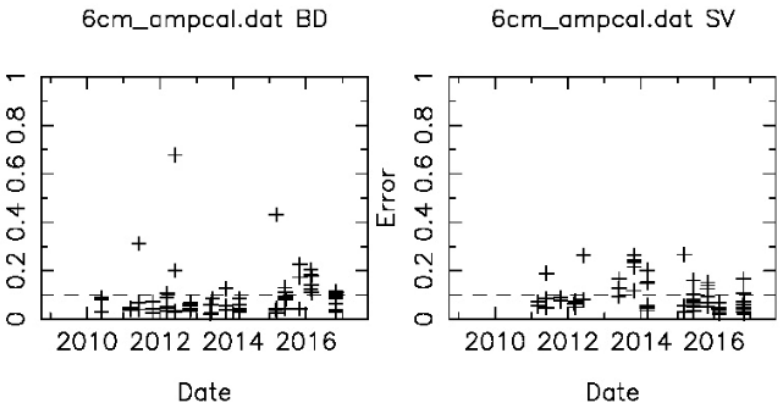
18/21cm ampcal vs time



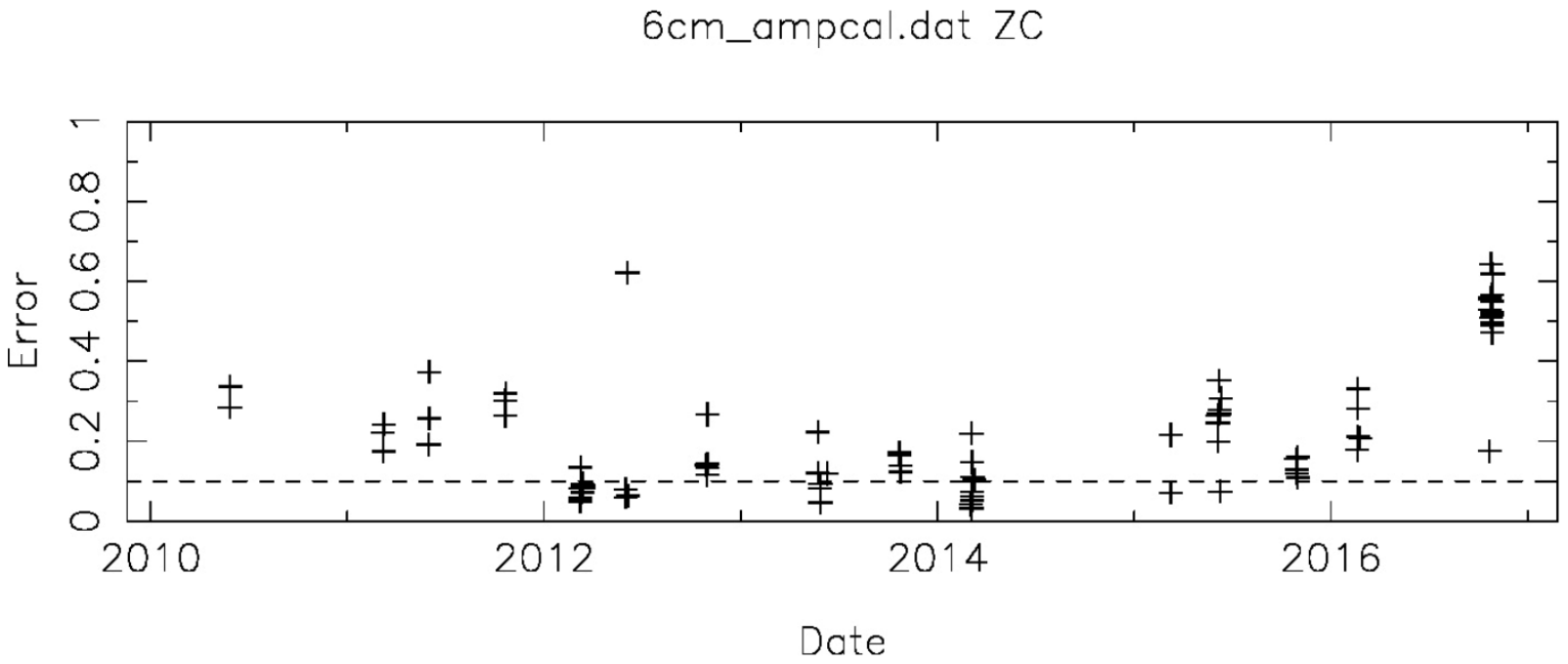
6cm ampcal vs time



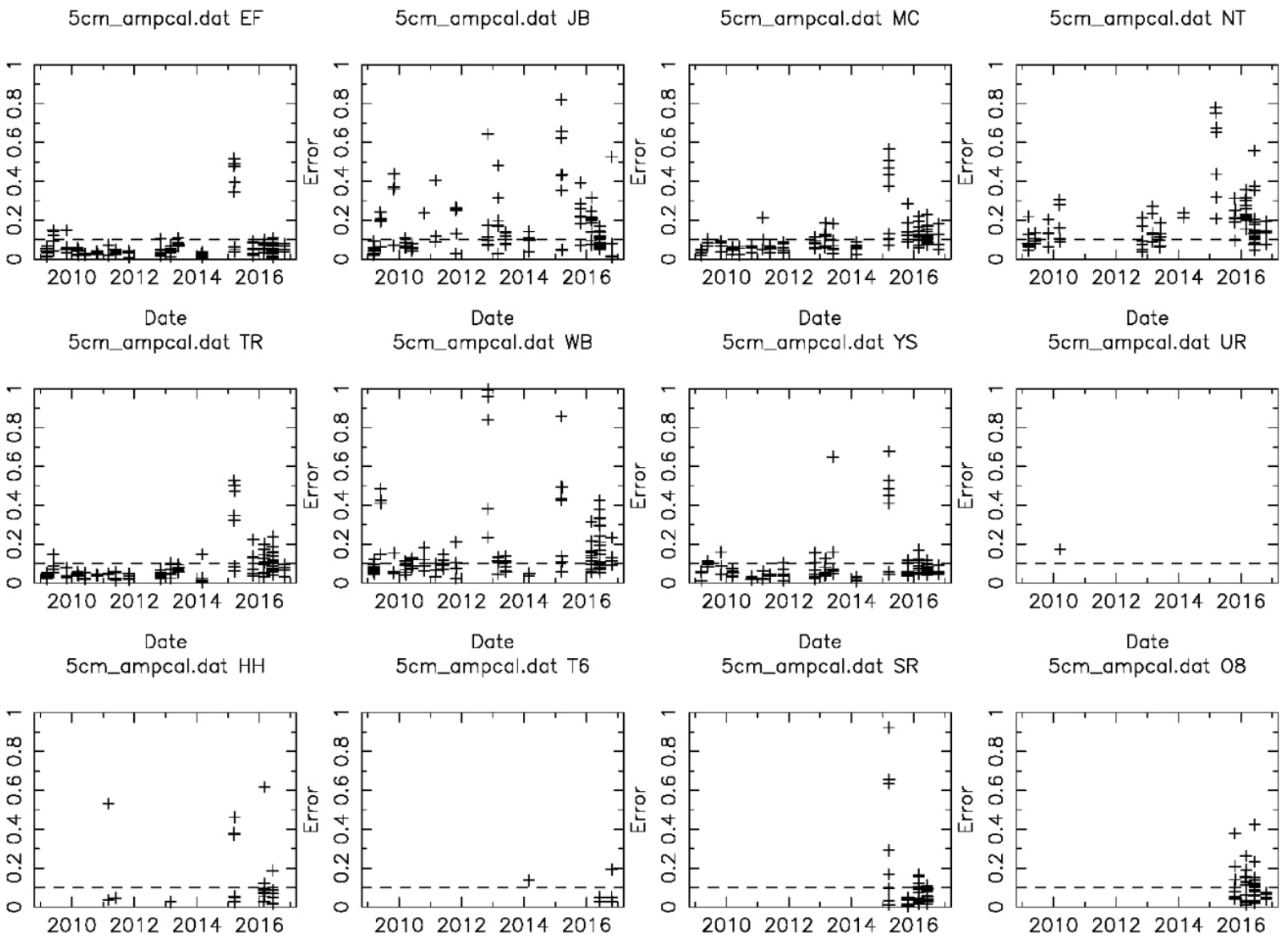
6cm ampcal vs time



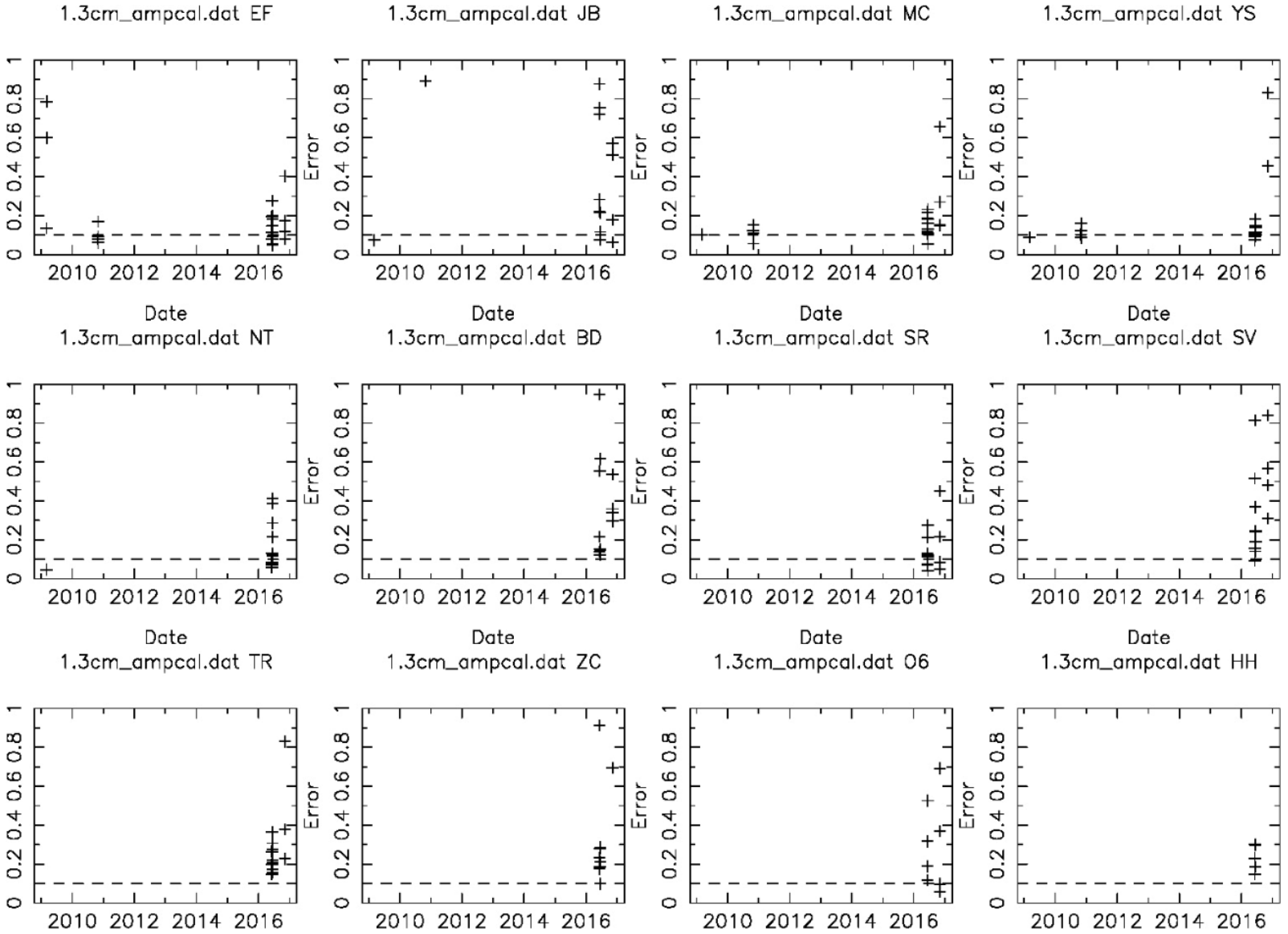
6cm ampcal vs time



5cm ampcal vs time



1.3cm ampcal vs time



Antabfs and feedback shame

- **JB**
  - No antabfs, no feedback.
- Ur
  - Missed a couple of a antabfs – did not reply to emails.
  - No feedback on web n16x1.
- T6
  - Missed a couple of antabfs – sent when requested. Did not upload logfile for n16l2, n16c2.
- Ef
  - Slow uploading logfiles n16c2.
  - No feedback on web n16x1.
- Mh
  - No feedback on web n16k1, n16l3.
- TR
  - No feedback on web n16l3, n16m3.
- NT
  - No feedback on web n16x1.
- Ys
  - No feedback on web n16x1.

N16K2

Network Monitoring Report: **K-band** N16K2

Source: J1801+4404, J2123+0535, J2148+0657
Reference antenna: Ef
Experiment code: N16K2

Length: 180 min.
Date of observations: 04/11/16
Date of report: 31/03/17

Observing mode: Mk V, mode 1024-16-2, dual pol.
Reference date: 04/11/16; 309d 12h 00m
by: Ross Burns

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

	Ef	Jb	Mc	Nt	O6	Ur	Tr	Ys	Sv	Zc	Bd	Sr	Hh	Mh	Ky	Ku	Kt
Station has observed	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	⊗	⊗
Station produced fringes (ftp)	⊗	⊗	⊗	⊗	⊗	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗	⊗
Station produced fringes (disk)	⊗	⊗	⊗	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗	⊗
Logs are available (within 72 hours)	■	⊗	⊗	■	⊗	⊗	⊗	⊗	■	■	■	■	⊗	⊗	■	■	■
Feedback on www (within 7 days)	■	■	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	■	■	■	■
GPS clock estimate gives fringes	⊗	⊗	⊗	○	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗	⊗
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Recording okay	⊗	⊗	⊗	○	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗	⊗
Polarization setup okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗	⊗
Strong signal amplitude	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗	⊗
Sampler statistics okay	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	⊗	○	⊗	⊗
Please check BBC number(s):	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2	8x2
Previous reported problem(s) corrected																	
Problem(s) first reported																	
See enclosed footnote(s):	d	d		a		b								d	c,d	d	d

Enclosure: Footnotes K-band N16K2