ML006B Correlation Report

General information

- A part of C181A
- no KVN participation in this subproject
- Targets: 3C273, 3C279
- Session info: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/
- Station feedback: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr18/feedback_apr18.asc
- GBT calibration info (Tsys files for download) and other related information for this session can be found here: https://safe.nrao.edu/wiki/bin/view/GB/Observing/WbandVLBACal/C181
- *Special processing* was applied to all data in order to correlate mismatching frequency setups of ALMA and other GMVA stations. See details here.

Current Status

Correlation finished, data **released** on 12/12/2018.

A **second** data release, with a problem, spotted in the original release, corrected, was made on 31/01/2019.

A **third** data release, rerunning PolConvert with the latest (25.06.2019) ALMA QA2 release, was made on 01/10/2019.

Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	**yes**	Fringe overview of all baselines (all of C181A) including Ef in LL (left for each baseline) and RR (right for each baseline). Legend: white - scheduled, but no data, blue - no fringe, red-green - fringes of different quality. D -- fourfit error, in this case due to mixing upper and lower subbands in the KVN compatibility mode, no real problem with the data. Scans 209, 210, 213-214 are missing from all diagnostic plots due to a difx2mark4 error. They are present in the final correlation products. c181a_FRINGE_RfAnt_Ef_LLRR_AllSrc.pdf Examples of fourfit fringe plots: c181a_No0199_3C273_AB_LL.pdf, c181a_No0199_3C273_AB_LR.pdf, c181a_No0199_3C273_AB_RL.pdf, c181a_No0199_3C273_AB_RR.pdf c181a_No0208_3C273_AB_LL.pdf, c181a_No0208_3C273_AB_LR.pdf, c181a_No0208_3C273_AB_RL.pdf, c181a_No0208_3C273_AB_RR.pdf Same for all antennas below unless otherwise noted.	In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products.
On	X	**yes**	c181a_FRINGE_RfAnt_On_LLRR_AllSrc.pdf c181a_No0208_3C273_AX_LL.pdf, c181a_No0208_3C273_AX_LR.pdf, c181a_No0208_3C273_AX_RL.pdf, c181a_No0208_3C273_AX_RR.pdf	In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit

Station	Code	Fringes	Plots	Comments
				error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products.
Ys	Y	yes	c181a_FRINGE_RfAnt_Ys_LLRR_AllSrc.pdf c181a_No0208_3C273_AY_LL.pdf, c181a_No0208_3C273_AY_LR.pdf, c181a_No0208_3C273_AY_RL.pdf, c181a_No0208_3C273_AY_RR.pdf c181a_No0220_3C273_gY_LL.pdf, c181a_No0220_3C273_gY_LR.pdf, no RL or RR fringes	As usual, Ys observed LCP only, but it was also recorded as fake RCP, that's why there are common Ys "right" to other antenna's left fringes. In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products.
Mh	Z	yes	c181a_FRINGE_RfAnt_Mh_LLRR_AllSrc.pdf c181a_No0208_3C273_AZ_LL.pdf, c181a_No0208_3C273_AZ_LR.pdf, c181a_No0208_3C273_AZ_RL.pdf, c181a_No0208_3C273_AZ_RR.pdf	In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots,

Station	Code	Fringes	Plots	Comments
				but are present in the final correlation products.
Pv	P	yes	c181a_FRINGE_RfAnt_Pv_LLRR_AllSrc.pdf c181a_No0208_3C273_AP_LL.pdf, c181a_No0208_3C273_AP_LR.pdf, c181a_No0208_3C273_AP_RL.pdf, c181a_No0208_3C273_AP_RR.pdf c181a_No0220_3C273_AP_LL.pdf, c181a_No0220_3C273_AP_LR.pdf, c181a_No0220_3C273_AP_RL.pdf, c181a_No0220_3C273_AP_RR.pdf c181a_No0220_3C273_gP_LL.pdf, c181a_No0220_3C273_gP_LR.pdf, c181a_No0220_3C273_gP_RL.pdf, c181a_No0220_3C273_gP_RR.pdf	In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products.
VLBA: Br	b	yes	c181a_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf preliminary: c181a_No0225_3C273_bg_LL.pdf, c181a_No0225_3C273_bg_LR.pdf, c181a_No0225_3C273_bg_RL.pdf, c181a_No0225_3C273_bg_RR.pdf final: c181a_No0215_3C273_Ab_LL.pdf, c181a_No0215_3C273_Ab_LR.pdf, c181a_No0215_3C273_Ab_RL.pdf, c181a_No0215_3C273_Ab_RR.pdf c181a_No0220_3C273_bG_LL.pdf, c181a_No0220_3C273_bG_LR.pdf, c181a_No0220_3C273_bG_RL.pdf, c181a_No0220_3C273_bG_RR.pdf	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems
VLBA: Fd	f	yes	c181a_FRINGE_RfAnt_Fd_LLRR_AllSrc.pdf c181a_No0208_3C273_Af_LL.pdf, c181a_No0208_3C273_Af_LR.pdf, c181a_No0208_3C273_Af_RL.pdf, c181a_No0208_3C273_Af_RR.pdf c181a_No0220_3C273_fG_LL.pdf, c181a_No0220_3C273_fG_LR.pdf, c181a_No0220_3C273_fG_RL.pdf, c181a_No0220_3C273_fG_RR.pdf c181a_No0230_3C273_fp_LL.pdf, c181a_No0230_3C273_fp_LR.pdf, c181a_No0230_3C273_fp_RL.pdf, c181a_No0230_3C273_fp_RR.pdf	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems
VLBA: Kp	k	yes	c181a_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf	all VLBA stations were starting

Station	Code	Fringes	Plots	Comments
			c181a_No0230_3C273_kp_LL.pdf, c181a_No0230_3C273_kp_LR.pdf, c181a_No0230_3C273_kp_RL.pdf, c181a_No0230_3C273_kp_RR.pdf	recording late, software glitch: low data weight, possible other problems
VLBA: La	l	yes	c181a_FRINGE_RfAnt_La_LLRR_AllSrc.pdf c181a_No0230_3C273_lp_LL.pdf, c181a_No0230_3C273_lp_LR.pdf, c181a_No0230_3C273_lp_RL.pdf, c181a_No0230_3C273_lp_RR.pdf	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems
VLBA: Mk	m	yes	c181a_FRINGE_RfAnt_Mk_LLRR_AllSrc.pdf c181a_No0230_3C273_mp_LL.pdf, c181a_No0230_3C273_mp_RR.pdf, no LR or RL fringes c181a_No0220_3C273_Gm_LL.pdf, c181a_No0220_3C273_Gm_RR.pdf, no LR or RL fringes	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems
VLBA: Nl	n	yes	c181a_FRINGE_RfAnt_Nl_LLRR_AllSrc.pdf c181a_No0208_3C273_An_LL.pdf, c181a_No0208_3C273_An_LR.pdf, c181a_No0208_3C273_An_RL.pdf, c181a_No0208_3C273_An_RR.pdf c181a_No0220_3C273_gn_LL.pdf, c181a_No0220_3C273_gn_LR.pdf, c181a_No0220_3C273_gn_RL.pdf, c181a_No0220_3C273_gn_RR.pdf c181a_No0220_3C273_Gn_LL.pdf, c181a_No0220_3C273_Gn_LR.pdf, c181a_No0220_3C273_Gn_RL.pdf, c181a_No0220_3C273_Gn_RR.pdf	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems
VLBA: Ov	o	yes	c181a_FRINGE_RfAnt_Ov_LLRR_AllSrc.pdf c181a_No0208_3C273_Ao_LL.pdf, c181a_No0208_3C273_Ao_LR.pdf, c181a_No0208_3C273_Ao_RL.pdf, c181a_No0208_3C273_Ao_RR.pdf c181a_No0220_3C273_go_LL.pdf, c181a_No0220_3C273_go_LR.pdf, c181a_No0220_3C273_go_RL.pdf, c181a_No0220_3C273_go_RR.pdf c181a_No0220_3C273_Go_LL.pdf, c181a_No0220_3C273_Go_LR.pdf, c181a_No0220_3C273_Go_RL.pdf, c181a_No0220_3C273_Go_RR.pdf	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems
VLBA: Pt	p	yes	c181a_FRINGE_RfAnt_Pt_LLRR_AllSrc.pdf preliminary	all VLBA stations were starting recording late,

Station	Code	Fringes	Plots	Comments
			c181a_No0225_3C273_gp_LL.pdf, c181a_No0225_3C273_gp_LR.pdf, c181a_No0225_3C273_gp_RL.pdf, c181a_No0225_3C273_gp_RR.pdf final: c181a_No0208_3C273_Ap_LL.pdf, c181a_No0208_3C273_Ap_LR.pdf, c181a_No0208_3C273_Ap_RL.pdf, c181a_No0208_3C273_Ap_RR.pdf c181a_No0230_3C273_mp_LL.pdf, c181a_No0230_3C273_mp_RR.pdf, no LR or RL fringes c181a_No0230_3C273_kp_LL.pdf, c181a_No0230_3C273_kp_LR.pdf, c181a_No0230_3C273_kp_RL.pdf, c181a_No0230_3C273_kp_RR.pdf c181a_No0230_3C273_lp_LL.pdf, c181a_No0230_3C273_lp_LR.pdf, c181a_No0230_3C273_lp_RL.pdf, c181a_No0230_3C273_lp_RR.pdf c181a_No0230_3C273_fp_LL.pdf, c181a_No0230_3C273_fp_LR.pdf, c181a_No0230_3C273_fp_RL.pdf, c181a_No0230_3C273_fp_RR.pdf	software glitch: low data weight, possible other problems
GBT: Gb	G	**yes**	c181a_FRINGE_RfAnt_Gb_LLRR_AllSrc.pdf preliminary: c181a_No0225_3C273_Gg_LL.pdf, c181a_No0225_3C273_Gg_LR.pdf, c181a_No0225_3C273_Gg_RL.pdf, c181a_No0225_3C273_Gg_RR.pdf final: c181a_No0215_3C273_AG_LL.pdf, c181a_No0215_3C273_AG_LR.pdf, c181a_No0215_3C273_AG_RL.pdf, c181a_No0215_3C273_AG_RR.pdf c181a_No0220_3C273_AG_LL.pdf, c181a_No0220_3C273_AG_LR.pdf, c181a_No0220_3C273_AG_RL.pdf, c181a_No0220_3C273_AG_RR.pdf c181a_No0220_3C273_Gm_LL.pdf, c181a_No0220_3C273_Gm_RR.pdf, no LR or RL fringes c181a_No0220_3C273_Gg_LL.pdf, c181a_No0220_3C273_Gg_LR.pdf, c181a_No0220_3C273_Gg_RL.pdf, c181a_No0220_3C273_Gg_RR.pdf c181a_No0220_3C273_bG_LL.pdf, c181a_No0220_3C273_bG_LR.pdf, c181a_No0220_3C273_bG_RL.pdf, c181a_No0220_3C273_bG_RR.pdf c181a_No0220_3C273_Gn_LL.pdf, c181a_No0220_3C273_Gn_LR.pdf, c181a_No0220_3C273_Gn_RL.pdf, c181a_No0220_3C273_Gn_RR.pdf c181a_No0220_3C273_Go_LL.pdf, c181a_No0220_3C273_Go_LR.pdf, c181a_No0220_3C273_Go_RL.pdf, c181a_No0220_3C273_Go_RR.pdf	

Station	Code	Fringes	Plots	Comments
			c181a_No0220_3C273_fG_LL.pdf, c181a_No0220_3C273_fG_LR.pdf, c181a_No0220_3C273_fG_RL.pdf, c181a_No0220_3C273_fG_RR.pdf	
GLT: Gl	g	yes	c181a_FRINGE_RfAnt_Gl_LLRR_AllSrc.pdf preliminary: c181a_No0225_3C273_bg_LL.pdf, c181a_No0225_3C273_bg_LR.pdf, c181a_No0225_3C273_bg_RL.pdf, c181a_No0225_3C273_bg_RR.pdf c181a_No0225_3C273_Gg_LL.pdf, c181a_No0225_3C273_Gg_LR.pdf, c181a_No0225_3C273_Gg_RL.pdf, c181a_No0225_3C273_Gg_RR.pdf c181a_No0225_3C273_gp_LL.pdf, c181a_No0225_3C273_gp_LR.pdf, c181a_No0225_3C273_gp_RL.pdf, c181a_No0225_3C273_gp_RR.pdf final: c181a_No0215_3C273_Ag_LL.pdf, c181a_No0215_3C273_Ag_LR.pdf, c181a_No0215_3C273_Ag_RL.pdf, c181a_No0215_3C273_Ag_RR.pdf c181a_No0220_3C273_Ag_LL.pdf, c181a_No0220_3C273_Ag_LR.pdf, c181a_No0220_3C273_Ag_RL.pdf, c181a_No0220_3C273_Ag_RR.pdf c181a_No0220_3C273_gY_LL.pdf, c181a_No0220_3C273_gY_LR.pdf, no RL or RR fringes c181a_No0220_3C273_gP_LL.pdf, c181a_No0220_3C273_gP_LR.pdf, c181a_No0220_3C273_gP_RL.pdf, c181a_No0220_3C273_gP_RR.pdf c181a_No0220_3C273_Gg_LL.pdf, c181a_No0220_3C273_Gg_LR.pdf, c181a_No0220_3C273_Gg_RL.pdf, c181a_No0220_3C273_Gg_RR.pdf c181a_No0220_3C273_gn_LL.pdf, c181a_No0220_3C273_gn_LR.pdf, c181a_No0220_3C273_gn_RL.pdf, c181a_No0220_3C273_gn_RR.pdf c181a_No0220_3C273_go_LL.pdf, c181a_No0220_3C273_go_LR.pdf, c181a_No0220_3C273_go_RL.pdf, c181a_No0220_3C273_go_RR.pdf	Data analysis has shown that GLT recorded in unknown polarization instead of circular (most probably unknown elliptic). At this moment **IT SHOULD NOT BE USED FOR ANY POLARIMETRY**and in general dealt with very carefully.
ALMA: Aa	A	yes	c181a_FRINGE_RfAnt_Aa_LLRR_AllSrc.pdf c181a_No0199_3C273_AB_LL.pdf, c181a_No0199_3C273_AB_LR.pdf, c181a_No0199_3C273_AB_RL.pdf, c181a_No0199_3C273_AB_RR.pdf c181a_No0208_3C273_AB_LL.pdf, c181a_No0208_3C273_AB_LR.pdf, c181a_No0208_3C273_AB_RL.pdf, c181a_No0208_3C273_AB_RR.pdf	Observed in linear polarization, converted to circular polarization in post-correlation uning PolConvert. For technical reasons the atmospheric

Station	Code	Fringes	Plots	Comments
			c181a_No0208_3C273_Af_LL.pdf, c181a_No0208_3C273_Af_LR.pdf, c181a_No0208_3C273_Af_RL.pdf, c181a_No0208_3C273_Af_RR.pdf c181a_No0208_3C273_An_LL.pdf, c181a_No0208_3C273_An_LR.pdf, c181a_No0208_3C273_An_RL.pdf, c181a_No0208_3C273_An_RR.pdf c181a_No0208_3C273_Ao_LL.pdf, c181a_No0208_3C273_Ao_LR.pdf, c181a_No0208_3C273_Ao_RL.pdf, c181a_No0208_3C273_Ao_RR.pdf c181a_No0208_3C273_Ap_LL.pdf, c181a_No0208_3C273_Ap_LR.pdf, c181a_No0208_3C273_Ap_RL.pdf, c181a_No0208_3C273_Ap_RR.pdf c181a_No0208_3C273_AP_LL.pdf, c181a_No0208_3C273_AP_LR.pdf, c181a_No0208_3C273_AP_RL.pdf, c181a_No0208_3C273_AP_RR.pdf c181a_No0208_3C273_AX_LL.pdf, c181a_No0208_3C273_AX_LR.pdf, c181a_No0208_3C273_AX_RL.pdf, c181a_No0208_3C273_AX_RR.pdf c181a_No0208_3C273_AY_LL.pdf, c181a_No0208_3C273_AY_LR.pdf, c181a_No0208_3C273_AY_RL.pdf, c181a_No0208_3C273_AY_RR.pdf c181a_No0208_3C273_AZ_LL.pdf, c181a_No0208_3C273_AZ_LR.pdf, c181a_No0208_3C273_AZ_RL.pdf, c181a_No0208_3C273_AZ_RR.pdf c181a_No0215_3C273_Ab_LL.pdf, c181a_No0215_3C273_Ab_LR.pdf, c181a_No0215_3C273_Ab_RL.pdf, c181a_No0215_3C273_Ab_RR.pdf c181a_No0215_3C273_Ag_LL.pdf, c181a_No0215_3C273_Ag_LR.pdf, c181a_No0215_3C273_Ag_RL.pdf, c181a_No0215_3C273_Ag_RR.pdf c181a_No0220_3C273_Ag_LL.pdf, c181a_No0220_3C273_Ag_LR.pdf, c181a_No0220_3C273_Ag_RL.pdf, c181a_No0220_3C273_Ag_RR.pdf c181a_No0215_3C273_AG_LL.pdf, c181a_No0215_3C273_AG_LR.pdf, c181a_No0215_3C273_AG_RL.pdf, c181a_No0215_3C273_AG_RR.pdf c181a_No0220_3C273_AG_LL.pdf, c181a_No0220_3C273_AG_LR.pdf, c181a_No0220_3C273_AG_RL.pdf, c181a_No0220_3C273_AG_RR.pdf c181a_No0220_3C273_AP_LL.pdf, c181a_No0220_3C273_AP_LR.pdf, c181a_No0220_3C273_AP_RL.pdf, c181a_No0220_3C273_AP_RR.pdf ----------	correction was applied twice -- both in original ALMA data and during the correlation. Although a special procedure was developed to compensate for this, we found that its application leads to other difficulties, in particular to abnormally high fringe rate jumps, so in the final production run the double atmospheric correction was left as is.

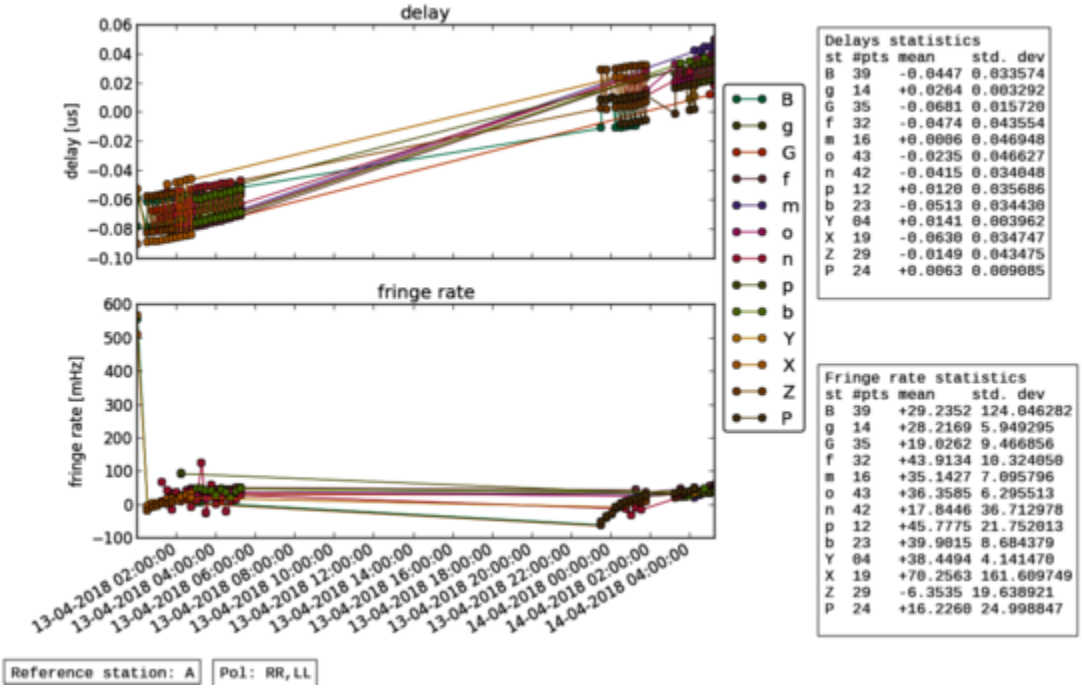
Notes

There were problems with some diagnostic plots of this experiment due to yet poorly understood errors of fourfit and other HOPS components. But this does not change the quality of the final correlation products. *(These issues were **fixed** in the second data release of 31/01/2019)*

GLT participated in this session for the first time as a test, and serious problems were detected when analysing its data. Be very carerful when using them.

Post-Correlation checks

Residuals



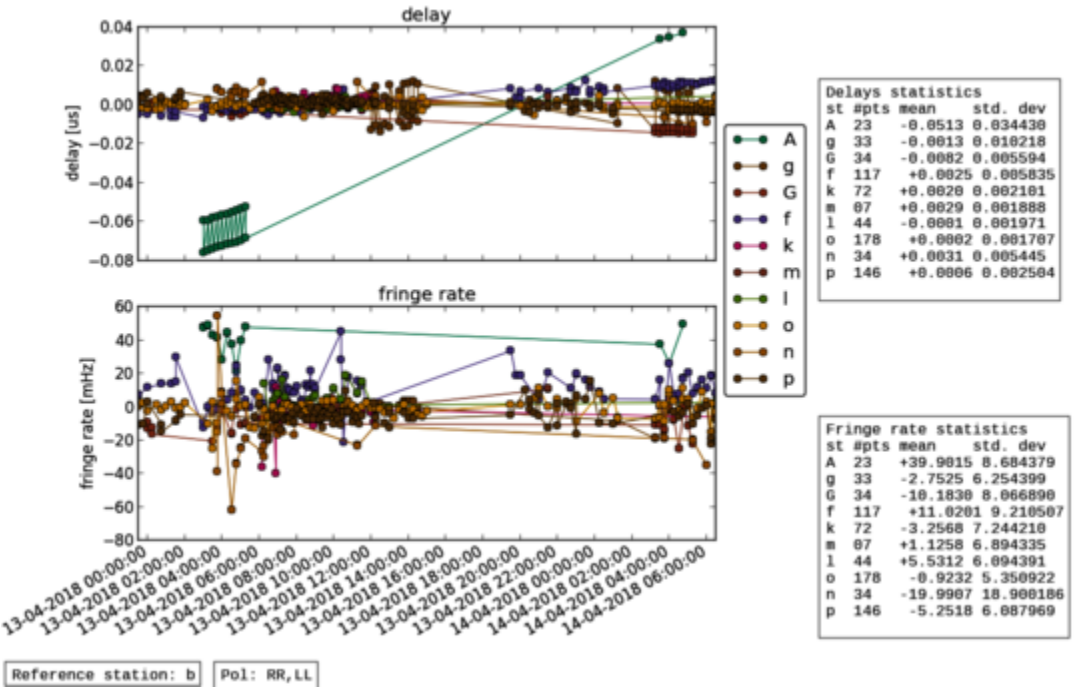
Delays statistics

st	#pts	mean	std. dev
B	39	-0.0447	0.033574
g	14	+0.0264	0.003292
G	35	-0.0681	0.015720
f	32	-0.0474	0.043554
m	16	+0.0006	0.046948
o	43	-0.0235	0.046627
n	42	-0.0415	0.034048
p	12	+0.0120	0.035686
b	23	-0.0513	0.034430
Y	84	+0.0141	0.003962
X	19	-0.0630	0.034747
Z	29	-0.0149	0.043475
P	24	+0.0063	0.009085

Fringe rate statistics

st	#pts	mean	std. dev
B	39	+29.2352	124.046282
g	14	+28.2169	5.949295
G	35	+19.0262	9.466856
f	32	+43.9134	10.324050
m	16	+35.1427	7.095796
o	43	+36.3585	6.295513
n	42	+17.8446	36.712978
p	12	+45.7775	21.752013
b	23	+39.9015	8.684379
Y	84	+38.4494	4.141470
X	19	+70.2563	161.609749
Z	29	-6.3535	19.638921
P	24	+16.2260	24.998847

Reference station: A | Pol: RR,LL



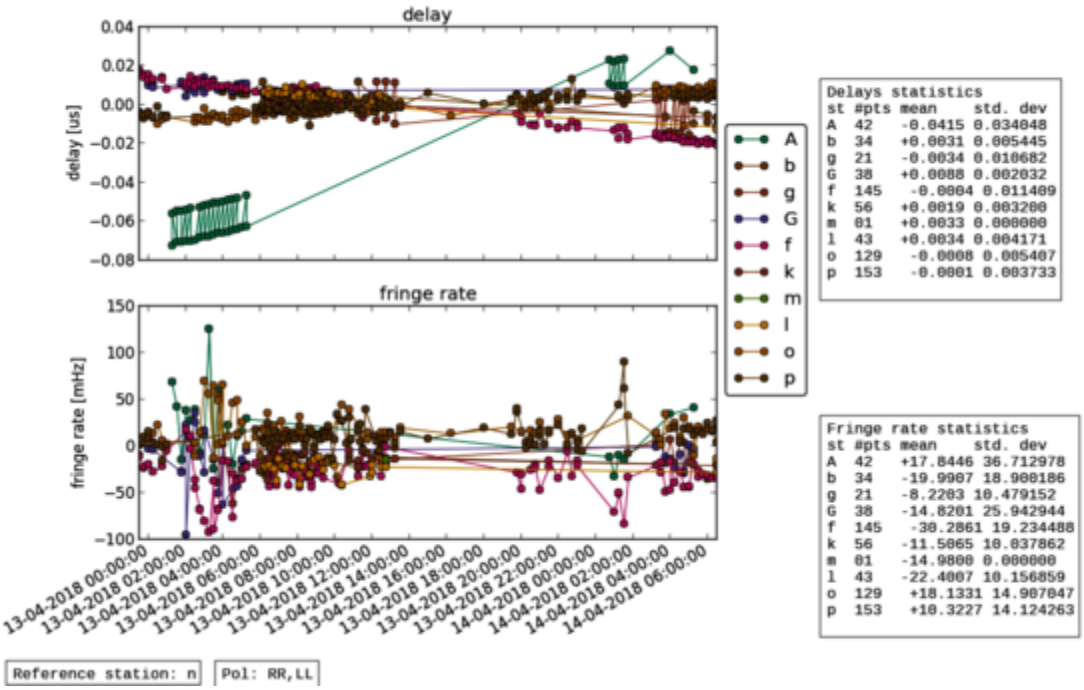
Delays statistics

st	#pts	mean	std. dev
A	23	-0.0513	0.034430
g	33	-0.0013	0.010218
G	34	-0.0082	0.005594
f	117	+0.0025	0.005835
k	72	+0.0020	0.002101
m	87	+0.0029	0.001888
l	44	-0.0001	0.001971
o	178	+0.0002	0.001707
n	34	+0.0031	0.005445
p	146	+0.0006	0.002504

Fringe rate statistics

st	#pts	mean	std. dev
A	23	+39.9015	8.684379
g	33	-2.7525	6.254399
G	34	-10.1830	8.066890
f	117	+11.0201	9.210507
k	72	-3.2568	7.244210
m	87	+1.1258	6.894335
l	44	+5.5312	6.094391
o	178	-0.9232	5.350922
n	34	-19.9907	18.900186
p	146	-5.2518	6.087969

Reference station: b | Pol: RR,LL



FITS completeness (pclist)

legend:

```
o -- station scheduled and fully accounted for in the fits file
42 (or another number) -- station scheduled, but data found
                          only for 42% of the scheduled interval
x -- station scheduled, but corresponding entry not found in the fits file
. -- station not scheduled
```

ml006b.fits:

```
                                GB EF ON YS PV MH AA AA GL NL FD PT LA OV KP BR MK
c181a_146D2D No0159    3C273 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_148D2D No0161    3C279 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_150D2D No0163    3C273 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_152D2D No0165    3C279 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_154D2D No0167    3C273 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_156D2D No0169    3C279 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_158D2D No0171    3C273 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_160D2D No0173    3C279 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_162D2D No0175    3C273 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_164D2D No0177    3C279 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_166D2D No0179    3C273 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_168D2D No0181    3C279 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_170D2D No0183    3C273 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_172D2D No0185    3C273 3mm_RDBE .  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .
c181a_173D2D No0187    3C273 3mm_RDBE o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c181a_175D2D No0189    3C273 3mm_RDBE o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
```

c181a_177D2D No0192	3C279	3mm_RDBE	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.
c181a_179D2D No0194	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	77	.	.	.	.	.	.	.	.
c181a_181D2D No0197	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	80	.	.	.	.	.	.	.	.
c181a_183D2D No0199	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	77	.	.	.	.	.	.	.	.
c181a_185D2D No0202	3C273	3mm_RDBE	95	o	o	o	o	o	o	o	.	85	85	.	.	.	.	.	.	.
c181a_187D2D No0204	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	77	77	77	77	.	.	.	.	.
c181a_189D2D No0207	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	80	80	80	80	.	80	.	.	.
c181a_190D2D No0208	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	80	80	80	80	80	80	.	.	.
c181a_191D2D No0209	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	o	80	80	80	80	80	80	80	.	.
c181a_192D2D No0210	3C273	3mm_RDBE	o	o	o	o	o	.	o	o	o	83	83	83	83	77	83	77	.	.
c181a_193D2D No0212	3C273	3mm_RDBE	o	o	o	o	o	.	o	o	o	71	71	04	71	80	71	80	.	.
c181a_194D2D No0213	3C273	3mm_RDBE	o	o	o	o	o	.	o	o	o	71	71	x	71	80	71	80	.	.
c181a_195D2D No0214	3C273	3mm_RDBE	o	o	o	o	o	.	o	o	o	71	71	47	71	85	71	85	.	.
c181a_196D2D No0215	3C273	3mm_RDBE	o	.	.	o	o	.	o	o	o	66	66	44	66	83	66	83	.	.
c181a_197D2D No0217	3C273	3mm_RDBE	o	.	.	o	o	.	o	o	o	71	71	42	71	71	71	71	.	.
c181a_198D2D No0218	3C273	3mm_RDBE	o	.	.	o	o	.	o	o	o	71	71	52	71	71	71	71	.	.
c181a_199D2D No0219	3C273	3mm_RDBE	o	.	.	o	o	.	o	o	o	71	71	09	71	85	71	85	23	.
c181a_200D2D No0220	3C273	3mm_RDBE	o	.	.	o	o	.	o	o	o	66	66	66	66	83	66	83	83	.
c181a_201D2D No0222	3C273	3mm_RDBE	o	.	.	.	.	.	o	o	o	71	71	71	71	90	71	90	90	.
c181a_202D2D No0223	3C273	3mm_RDBE	o	.	.	.	.	.	o	o	o	71	71	71	71	85	71	85	85	.
c181a_203D2D No0224	3C273	3mm_RDBE	o	.	.	.	.	.	o	o	o	71	71	71	71	85	71	85	85	.
c181a_204D2D No0225	3C273	3mm_RDBE	o	.	.	.	.	.	o	o	o	71	71	71	71	71	71	71	71	.
c181a_205D2D No0226	3C273	3mm_RDBE	.	.	.	.	.	.	.	.	.	80	80	80	80	80	80	80	80	.
c181a_206D2D No0227	3C273	3mm_RDBE	.	.	.	.	.	.	.	.	.	80	80	80	80	80	80	80	80	.
c181a_207D2D No0228	3C273	3mm_RDBE	.	.	.	.	.	.	.	.	.	80	80	80	80	80	80	80	80	.
c181a_208D2D No0229	3C273	3mm_RDBE	.	.	.	.	.	.	.	.	.	80	80	80	80	80	80	80	80	.
c181a_209D2D No0230	3C273	3mm_RDBE	.	.	.	.	.	.	.	.	.	60	60	60	60	60	60	60	60	.