C181E Correlation Report

General information

- Consists of only one subproject: MM013D.
- 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
- The only correlation block of C181 that was processed in the usual way since ALMA did not participate in it.

Current Status

Correlation finished, data **released** on 10/12/2018.

Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	**yes**	Fringe overview of all baselines of this antenna 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.: c181e_FRINGE_RfAnt_Ef_LLRR_AllSrc.pdf Examples of fourfit fringe plots: c181e_No0049_3C454.3_bB_LL.pdf, c181e_No0049_3C454.3_bB_RR.pdf, no LR or RL fringes c181e_No0041_3C454.3_Bf_LL.pdf, c181e_No0041_3C454.3_Bf_RR.pdf, no LR or RL fringes c181e_No0041_3C454.3_Bk_LL.pdf, c181e_No0041_3C454.3_Bk_RR.pdf, no LR or RL fringes c181e_No0041_3C454.3_Bl_LL.pdf, c181e_No0041_3C454.3_Bl_LR.pdf, no fringe in RL, c181e_No0041_3C454.3_Bl_RR.pdf c181e_No0041_3C454.3_Bn_LL.pdf, c181e_No0041_3C454.3_Bn_RR.pdf, no LR or RL fringes c181e_No0041_3C454.3_Bo_LL.pdf, c181e_No0041_3C454.3_Bo_RR.pdf, no LR or RL fringes c181e_No0041_3C454.3_Bp_LL.pdf, c181e_No0041_3C454.3_Bp_RR.pdf, no LR or RL fringes	

Station	Code	Fringes	Plots	Comments
			c181e_No0041_3C454.3_BX_LL.pdf, c181e_No0041_3C454.3_BX_LR.pdf, c181e_No0041_3C454.3_BX_RL.pdf, c181e_No0041_3C454.3_BX_RR.pdf c181e_No0041_3C454.3_BY_LL.pdf, c181e_No0041_3C454.3_BY_LR.pdf, no RL or RR fringes c181e_No0041_3C454.3_BZ_LL.pdf, c181e_No0041_3C454.3_BZ_LR.pdf, c181e_No0041_3C454.3_BZ_RL.pdf, c181e_No0041_3C454.3_BZ_RR.pdf c181e_No0055_3C454.3_BP_LL.pdf, c181e_No0055_3C454.3_BP_LR.pdf, c181e_No0055_3C454.3_BP_RL.pdf, c181e_No0055_3C454.3_BP_RR.pdf c181e_No0077_0716+714_Bt_LR.pdf, c181e_No0077_0716+714_Bt_RL.pdf, no LL or RR fringes c181e_No0077_0716+714_Bu_LL.pdf, c181e_No0077_0716+714_Bu_LR.pdf, c181e_No0077_0716+714_Bu_RL.pdf, c181e_No0077_0716+714_Bu_RR.pdf Same for all antennas below unless otherwise noted.	
On	X	yes	c181e_FRINGE_RfAnt_On_LLRR_AllSrc.pdf c181e_No0041_3C454.3_BX_LL.pdf, c181e_No0041_3C454.3_BX_LR.pdf, c181e_No0041_3C454.3_BX_RL.pdf, c181e_No0041_3C454.3_BX_RR.pdf c181e_No0049_3C454.3_bX_LL.pdf, c181e_No0049_3C454.3_bX_RR.pdf, no LR or RL fringes c181e_No0055_3C454.3_XP_LL.pdf, c181e_No0055_3C454.3_XP_LR.pdf, c181e_No0055_3C454.3_XP_RL.pdf, c181e_No0055_3C454.3_XP_RR.pdf c181e_No0077_0716+714_tX_LL.pdf, c181e_No0077_0716+714_tX_LR.pdf, c181e_No0077_0716+714_tX_RL.pdf, c181e_No0077_0716+714_tX_RR.pdf c181e_No0077_0716+714_uX_LL.pdf, c181e_No0077_0716+714_uX_LR.pdf, c181e_No0077_0716+714_uX_RL.pdf, c181e_No0077_0716+714_uX_RR.pdf	
Ys	Y	yes	c181e_FRINGE_RfAnt_Ys_LLRR_AllSrc.pdf c181e_No0041_3C454.3_BY_LL.pdf, c181e_No0041_3C454.3_BY_LR.pdf, no RL or RR fringes c181e_No0055_3C454.3_PY_LL.pdf, c181e_No0055_3C454.3_PY_LR.pdf, c181e_No0055_3C454.3_PY_RL.pdf, c181e_No0055_3C454.3_PY_RR.pdf	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.
Mh	Z	yes	c181e_FRINGE_RfAnt_Mh_LLRR_AllSrc.pdf	

Station	Code	Fringes	Plots	Comments
			c181e_No0041_3C454.3_BZ_LL.pdf, c181e_No0041_3C454.3_BZ_LR.pdf, c181e_No0041_3C454.3_BZ_RL.pdf, c181e_No0041_3C454.3_BZ_RR.pdf c181e_No0055_3C454.3_ZP_LL.pdf, c181e_No0055_3C454.3_ZP_LR.pdf, c181e_No0055_3C454.3_ZP_RL.pdf, c181e_No0055_3C454.3_ZP_RR.pdf	
Pv	P	**yes**	c181e_FRINGE_RfAnt_Pv_LLRR_AllSrc.pdf c181e_No0055_3C454.3_BP_LL.pdf, c181e_No0055_3C454.3_BP_LR.pdf, c181e_No0055_3C454.3_BP_RL.pdf, c181e_No0055_3C454.3_BP_RR.pdf c181e_No0055_3C454.3_fP_LL.pdf, c181e_No0055_3C454.3_fP_LR.pdf, c181e_No0055_3C454.3_fP_RL.pdf, c181e_No0055_3C454.3_fP_RR.pdf c181e_No0055_3C454.3_kP_LL.pdf, c181e_No0055_3C454.3_kP_RR.pdf, no LR or RL fringes c181e_No0055_3C454.3_lP_LL.pdf, no LR fringe, c181e_No0055_3C454.3_lP_RL.pdf, c181e_No0055_3C454.3_lP_RR.pdf c181e_No0055_3C454.3_nP_LL.pdf, c181e_No0055_3C454.3_nP_RR.pdf, no LR or RL fringes c181e_No0055_3C454.3_oP_LL.pdf, c181e_No0055_3C454.3_oP_LR.pdf, c181e_No0055_3C454.3_oP_RR.pdf, c181e_No0055_3C454.3_pP_LL.pdf c181e_No0055_3C454.3_pP_LR.pdf, no LR fringe, c181e_No0055_3C454.3_pP_RL.pdf, c181e_No0055_3C454.3_pP_RR.pdf c181e_No0055_3C454.3_PY_LL.pdf, c181e_No0055_3C454.3_PY_LR.pdf, c181e_No0055_3C454.3_PY_RL.pdf, c181e_No0055_3C454.3_PY_RR.pdf c181e_No0055_3C454.3_XP_LL.pdf, c181e_No0055_3C454.3_XP_LR.pdf, c181e_No0055_3C454.3_XP_RL.pdf, c181e_No0055_3C454.3_XP_RR.pdf c181e_No0055_3C454.3_ZP_LL.pdf, c181e_No0055_3C454.3_ZP_LR.pdf, c181e_No0055_3C454.3_ZP_RL.pdf, c181e_No0055_3C454.3_ZP_RR.pdf c181e_No0077_0716+714_tP_LL.pdf, c181e_No0077_0716+714_tP_LR.pdf, c181e_No0077_0716+714_tP_RL.pdf, c181e_No0077_0716+714_tP_RR.pdf c181e_No0077_0716+714_uP_LL.pdf, c181e_No0077_0716+714_uP_LR.pdf, c181e_No0077_0716+714_uP_RL.pdf, c181e_No0077_0716+714_uP_RR.pdf	
VLBA: Br	b	**yes**	c181e_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf c181e_No0049_3C454.3_bB_LL.pdf, c181e_No0049_3C454.3_bB_RR.pdf, no LR or RL fringes	

Station	Code	Fringes	Plots	Comments
			c181e_No0049_3C454.3_bf_LL.pdf, c181e_No0049_3C454.3_bf_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bk_LL.pdf, c181e_No0049_3C454.3_bk_RR.pdf, no LR or RL fringeS c181e_No0049_3C454.3_bl_LL.pdf, c181e_No0049_3C454.3_bl_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bn_LL.pdf, c181e_No0049_3C454.3_bn_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bo_LL.pdf, c181e_No0049_3C454.3_bo_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bp_LL.pdf, c181e_No0049_3C454.3_bp_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bX_LL.pdf, c181e_No0049_3C454.3_bX_RR.pdf, no LR or RL fringes	
VLBA: Fd	f	**yes**	c181e_FRINGE_RfAnt_Fd_LLRR_AllSrc.pdf c181e_No0041_3C454.3_Bf_LL.pdf, c181e_No0041_3C454.3_Bf_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bf_LL.pdf, c181e_No0049_3C454.3_bf_RR.pdf, no LR or RL fringes c181e_No0055_3C454.3_fP_LL.pdf, c181e_No0055_3C454.3_fP_LR.pdf, c181e_No0055_3C454.3_fP_RL.pdf, c181e_No0055_3C454.3_fP_RR.pdf	
VLBA: Kp	k	**yes**	c181e_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf c181e_No0041_3C454.3_Bk_LL.pdf, c181e_No0041_3C454.3_Bk_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bk_LL.pdf, c181e_No0049_3C454.3_bk_RR.pdf, no LR or RL fringes c181e_No0055_3C454.3_kP_LL.pdf, c181e_No0055_3C454.3_kP_RR.pdf, no LR or RL fringes	
VLBA: La	l	**yes**	c181e_FRINGE_RfAnt_La_LLRR_AllSrc.pdf c181e_No0041_3C454.3_Bl_LL.pdf, c181e_No0041_3C454.3_Bl_LR.pdf, no fringe in RL, c181e_No0041_3C454.3_Bl_RR.pdf	

Station	Code	Fringes	Plots	Comments
			c181e_No0049_3C454.3_bl_LL.pdf, c181e_No0049_3C454.3_bl_RR.pdf, no LR or RL fringes c181e_No0055_3C454.3_lP_LL.pdf, no LR fringe, c181e_No0055_3C454.3_lP_RL.pdf, c181e_No0055_3C454.3_lP_RR.pdf	
VLBA: Mk	m	yes	c181e_FRINGE_RfAnt_Mk_LLRR_AllSrc.pdf c181e_No0079_CTA102_mp_LL.pdf, c181e_No0079_CTA102_mp_LR.pdf, c181e_No0079_CTA102_mp_RL.pdf, c181e_No0079_CTA102_mp_RR.pdf	
VLBA: Nl	n	yes	c181e_FRINGE_RfAnt_Nl_LLRR_AllSrc.pdf c181e_No0041_3C454.3_Bn_LL.pdf, c181e_No0041_3C454.3_Bn_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bn_LL.pdf, c181e_No0049_3C454.3_bn_RR.pdf, no LR or RL fringes c181e_No0055_3C454.3_nP_LL.pdf, c181e_No0055_3C454.3_nP_RR.pdf, no LR or RL fringes	
VLBA: Ov	o	yes	c181e_FRINGE_RfAnt_Ov_LLRR_AllSrc.pdf c181e_No0041_3C454.3_Bo_LL.pdf, c181e_No0041_3C454.3_Bo_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bo_LL.pdf, c181e_No0049_3C454.3_bo_RR.pdf, no LR or RL fringes c181e_No0055_3C454.3_oP_LL.pdf, c181e_No0055_3C454.3_oP_LR.pdf, c181e_No0055_3C454.3_oP_RR.pdf, c181e_No0055_3C454.3_pP_LL.pdf	
VLBA: Pt	p	yes	c181e_FRINGE_RfAnt_Pt_LLRR_AllSrc.pdf c181e_No0041_3C454.3_Bp_LL.pdf, c181e_No0041_3C454.3_Bp_RR.pdf, no LR or RL fringes c181e_No0049_3C454.3_bp_LL.pdf, c181e_No0049_3C454.3_bp_RR.pdf, no LR or RL fringes c181e_No0055_3C454.3_pP_LR.pdf, no LR fringe, c181e_No0055_3C454.3_pP_RL.pdf, c181e_No0055_3C454.3_pP_RR.pdf c181e_No0079_CTA102_mp_LL.pdf, c181e_No0079_CTA102_mp_LR.pdf, c181e_No0079_CTA102_mp_RL.pdf, c181e_No0079_CTA102_mp_RR.pdf	

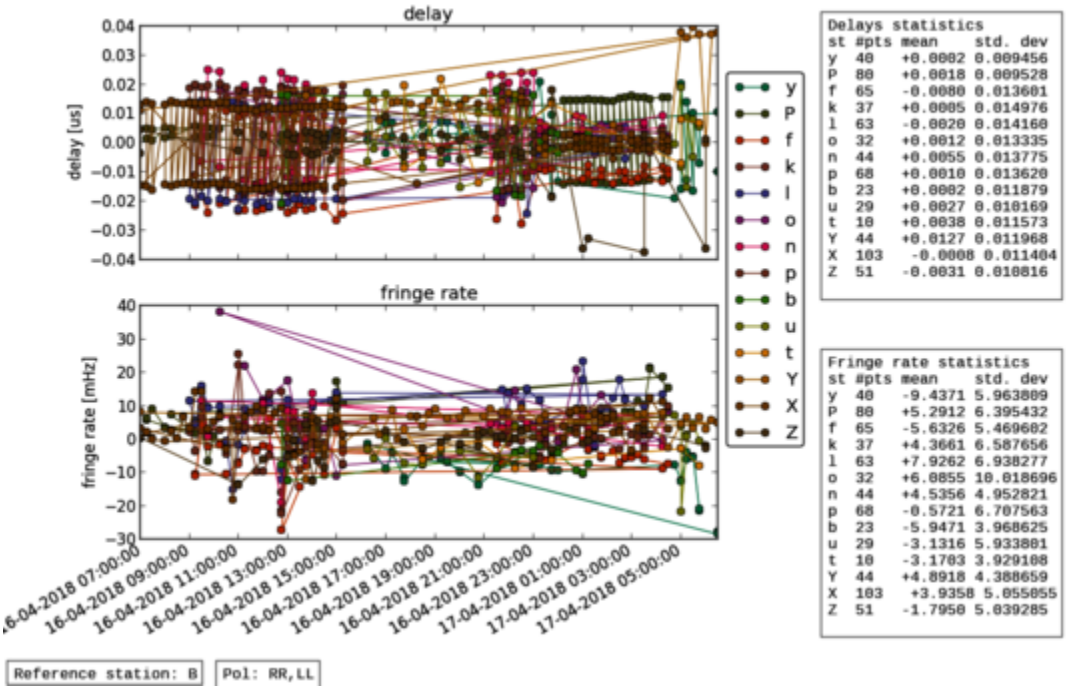
Station	Code	Fringes	Plots	Comments
GLT: Gl	g	no	----------	did not observe
KVN: Kt	t	yes	c181e_FRINGE_RfAnt_Kt_LLRR_AllSrc.pdf c181e_No0077_0716+714_Bt_LR.pdf, c181e_No0077_0716+714_Bt_RL.pdf, no LL or RR fringeS c181e_No0077_0716+714_tX_LL.pdf, c181e_No0077_0716+714_tX_LR.pdf, c181e_No0077_0716+714_tX_RL.pdf, c181e_No0077_0716+714_tX_RR.pdf c181e_No0077_0716+714_tP_LL.pdf, c181e_No0077_0716+714_tP_LR.pdf, c181e_No0077_0716+714_tP_RL.pdf, c181e_No0077_0716+714_tP_RR.pdf c181e_No0077_0716+714_tu_LL.pdf, c181e_No0077_0716+714_tu_LR.pdf, c181e_No0077_0716+714_tu_RL.pdf, c181e_No0077_0716+714_tu_RR.pdf c181e_No0077_0716+714_ty_LL.pdf, c181e_No0077_0716+714_ty_LR.pdf, c181e_No0077_0716+714_ty_RL.pdf, c181e_No0077_0716+714_ty_RR.pdf	
KVN: Ku	u	yes	c181e_FRINGE_RfAnt_Ku_LLRR_AllSrc.pdf c181e_No0077_0716+714_Bu_LL.pdf, c181e_No0077_0716+714_Bu_LR.pdf, c181e_No0077_0716+714_Bu_RL.pdf, c181e_No0077_0716+714_Bu_RR.pdf c181e_No0077_0716+714_uP_LL.pdf, c181e_No0077_0716+714_uP_LR.pdf, c181e_No0077_0716+714_uP_RL.pdf, c181e_No0077_0716+714_uP_RR.pdf c181e_No0077_0716+714_uX_LL.pdf, c181e_No0077_0716+714_uX_LR.pdf, c181e_No0077_0716+714_uX_RL.pdf, c181e_No0077_0716+714_uX_RR.pdf c181e_No0077_0716+714_tu_LL.pdf, c181e_No0077_0716+714_tu_LR.pdf, c181e_No0077_0716+714_tu_RL.pdf, c181e_No0077_0716+714_tu_RR.pdf c181e_No0077_0716+714_uy_LL.pdf, c181e_No0077_0716+714_uy_LR.pdf, c181e_No0077_0716+714_uy_RL.pdf, c181e_No0077_0716+714_uy_RR.pdf	
KVN: Ky	y	yes	c181e_FRINGE_RfAnt_Ky_LLRR_AllSrc.pdf c181e_No0077_0716+714_ty_LL.pdf, c181e_No0077_0716+714_ty_LR.pdf, c181e_No0077_0716+714_ty_RL.pdf, c181e_No0077_0716+714_ty_RR.pdf c181e_No0077_0716+714_uy_LL.pdf, c181e_No0077_0716+714_uy_LR.pdf, c181e_No0077_0716+714_uy_RL.pdf, c181e_No0077_0716+714_uy_RR.pdf	

Notes

For technical reasons the correlation output is saved as 3 different fits files, see their content below in the pclist section.

Post-Correlation checks

Residuals

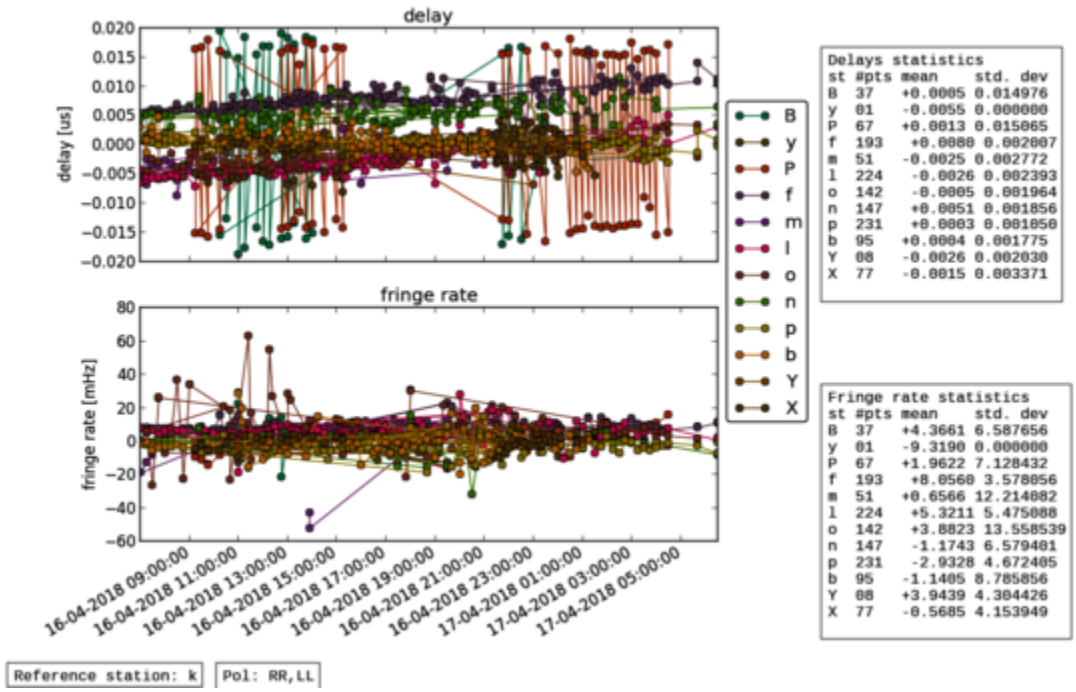


Delays statistics

st	#pts	mean	std. dev
y	40	+0.0002	0.009456
P	80	+0.0018	0.009528
f	65	-0.0080	0.013601
k	37	+0.0005	0.014976
l	63	-0.0020	0.014160
o	32	+0.0012	0.013335
n	44	+0.0055	0.013775
p	68	+0.0010	0.013620
b	23	+0.0002	0.011879
u	29	+0.0027	0.010169
t	10	+0.0038	0.011573
Y	44	+0.0127	0.011968
X	103	-0.0008	0.011404
Z	51	-0.0031	0.010816

Fringe rate statistics

st	#pts	mean	std. dev
y	40	-9.4371	5.963809
P	80	+5.2912	6.395432
f	65	-5.6326	5.469602
k	37	+4.3661	6.587656
l	63	+7.9262	6.938277
o	32	+6.0855	10.018696
n	44	+4.5356	4.952821
p	68	-0.5721	6.707563
b	23	-5.9471	3.968625
u	29	-3.1316	5.933801
t	10	-3.1703	3.929108
Y	44	+4.8918	4.388659
X	103	+3.9358	5.055055
Z	51	-1.7950	5.039285

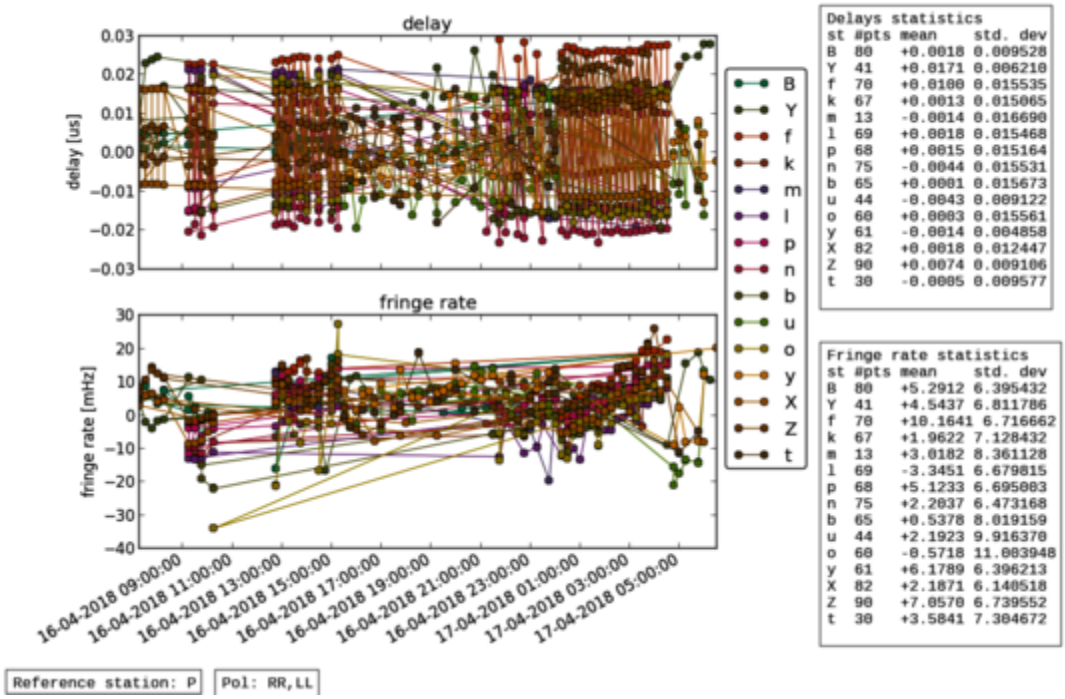


Delays statistics

st	#pts	mean	std. dev
B	37	+0.0005	0.014976
y	01	-0.0055	0.000000
P	67	+0.0013	0.015065
f	193	+0.0080	0.002007
m	51	-0.0025	0.002772
l	224	-0.0026	0.002393
o	142	-0.0005	0.001964
n	147	+0.0051	0.001856
p	231	+0.0003	0.001850
b	95	+0.0004	0.001775
Y	08	-0.0026	0.002030
X	77	-0.0015	0.003371

Fringe rate statistics

st	#pts	mean	std. dev
B	37	+4.3661	6.587656
y	01	-9.3190	0.000000
P	67	+1.9622	7.128432
f	193	+8.0560	3.578056
m	51	+0.6566	12.214082
l	224	+5.3211	5.475088
o	142	+3.8823	13.558539
n	147	-1.1743	6.579401
p	231	-2.9328	4.672405
b	95	-1.1405	8.785856
Y	08	+3.9439	4.304426
X	77	-0.5685	4.153949



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
```

mm013d_setup1.fits:

				EF	ON	YS	PV	MH	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181e_001	No0001	BLLAC	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.
c181e_002	No0002	1510-089	3mm_RDBE	.	.	.	.	.	o	o	53	o	o	o	o	o	.	.	.
c181e_003	No0003	BLLAC	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c181e_004	No0004	1510-089	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_005	No0005	BLLAC	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c181e_006	No0006	1510-089	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_007	No0007	BLLAC	3mm_RDBE	o	o	o	42	o	.	.	.	.	.	.	.	.	.	.	.
c181e_008	No0008	1510-089	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_009	No0009	BLLAC	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c181e_010	No0010	1510-089	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_011	No0011	BLLAC	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c181e_012	No0012	1510-089	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_013	No0013	BLLAC	3mm_RDBE	o	o	o	.	o	o	.	.	.	.	.	.	.	.	.	.
c181e_014	No0014	1510-089	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_015	No0015	BLLAC	3mm_RDBE	o	o	o	.	o	o	.	.	.	.	.	.	.	.	.	.
c181e_016	No0016	1510-089	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.

c181e_017	No0017	BLLAC	3mm_RDBE	o	o	o	o	o	o	.	o	o	.	.	.	.	.	.
c181e_018	No0018	1510-089	3mm_RDBE	.	.	.	.	.	.	o	.	.	o	o	o	o	.	.
c181e_019	No0019	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_020	No0020	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_021	No0021	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_022	No0022	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_023	No0023	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_024	No0024	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_025	No0025	BLLAC	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.
c181e_026	No0026	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_027	No0027	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_028	No0028	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_029	No0029	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	.	.
c181e_030	No0030	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_032	No0032	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_034	No0034	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_036	No0036	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_038	No0038	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_040	No0040	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_042	No0042	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_044	No0044	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_046	No0046	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_048	No0048	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_050	No0050	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_052	No0052	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_054	No0054	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_056	No0056	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_058	No0058	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_060	No0060	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c181e_062	No0062	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_064	No0064	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c181e_066	No0066	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_068	No0068	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_069	No0069	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_071	No0071	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_073	No0073	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_074	No0074	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_076	No0076	1749+096	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.
c181e_078	No0078	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_079	No0079	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_081	No0081	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_083	No0083	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_084	No0084	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_086	No0086	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_088	No0088	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_089	No0089	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_091	No0091	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_093	No0093	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_094	No0094	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181e_096	No0096	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.

c181e_098	No0098	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_099	No0099	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_101	No0101	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	48	o	o	o	o	o	.	.	.
c181e_103	No0103	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_104	No0104	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_106	No0106	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_108	No0108	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_109	No0109	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_111	No0111	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_113	No0113	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_114	No0114	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_116	No0116	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_118	No0118	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_119	No0119	CTA102	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_121	No0121	3C454.3	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_123	No0123	BLLAC	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_124	No0124	CTA102	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_126	No0126	3C454.3	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_128	No0128	3C454.3	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_130	No0130	0716+714	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_132	No0132	0836+710	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_134	No0134	0954+658	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_136	No0136	0716+714	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_138	No0138	0836+710	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_140	No0140	0954+658	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	x
c181e_142	No0142	0716+714	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_144	No0144	0836+710	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_146	No0146	0954+658	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_148	No0148	0716+714	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_150	No0150	0716+714	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	o	o	o	o
c181e_169	No0169	1055+018	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_171	No0171	1156+295	3mm_RDBE	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181e_173	No0173	1055+018	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_175	No0175	1156+295	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_176	No0176	1055+018	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_178	No0178	1156+295	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_180	No0180	1055+018	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_181	No0181	1156+295	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_183	No0183	1055+018	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_185	No0185	1156+295	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181e_186	No0186	1055+018	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.

mm013d_setup2.fits:

				EF	ON	YS	PV	MH	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181e_031	No0031	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	.	.	.
c181e_033	No0033	3C454.3	3mm_RDBE	o	o	o	x	o	o	o	o	o	.	o	o	.	.	.	.
c181e_035	No0035	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	.	.	.
c181e_037	No0037	BLLAC	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.	.

c181e_039	No0039	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	.	.	.
c181e_041	No0041	3C454.3	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	.	.	.
c181e_043	No0043	BLLAC	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	.	.	.
c181e_045	No0045	BLLAC	3mm_RDBE	o	o	o	04	o	.	.	.	.	.	.	.	.	.	.	.
c181e_047	No0047	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_049	No0049	3C454.3	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_051	No0051	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_053	No0053	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_055	No0055	3C454.3	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_057	No0057	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_059	No0059	BLLAC	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c181e_061	No0061	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_063	No0063	BLLAC	3mm_RDBE	o	.	o	o	o	.	.	.	.	.	.	.	.	.	.	.
c181e_065	No0065	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_067	No0067	BLLAC	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_070	No0070	0716+714	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_072	No0072	0836+710	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_075	No0075	0954+658	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_077	No0077	0716+714	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_080	No0080	0836+710	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_082	No0082	0954+658	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_085	No0085	0716+714	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	x
c181e_087	No0087	0836+710	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	x
c181e_090	No0090	0954+658	3mm_RDBE	o	o	o	o	28	.	.	.	.	.	.	.	.	o	o	o
c181e_092	No0092	0716+714	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_095	No0095	0836+710	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_097	No0097	0954+658	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_100	No0100	0716+714	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_102	No0102	0836+710	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_105	No0105	0954+658	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_107	No0107	0716+714	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_110	No0110	0836+710	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_112	No0112	0954+658	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_115	No0115	0716+714	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_117	No0117	0836+710	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	x
c181e_120	No0120	0954+658	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_122	No0122	0716+714	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_125	No0125	0836+710	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_127	No0127	0954+658	3mm_RDBE	o	o	o	o	o	o	.	.	.	.	.	.	.	o	o	o
c181e_129	No0129	0716+714	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	x
c181e_131	No0131	0836+710	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	x
c181e_133	No0133	0954+658	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c181e_135	No0135	0716+714	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c181e_137	No0137	0836+710	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c181e_139	No0139	0954+658	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c181e_141	No0141	0716+714	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o

mm013d_setup3.fits:

				EF	ON	YS	PV	MH	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181e_143	No0143	0836+710	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c181e_145	No0145	0954+658	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c181e_147	No0147	0716+714	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c181e_149	No0149	0716+714	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c181e_151	No0151	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_152	No0152	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_153	No0153	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_154	No0154	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_155	No0155	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_156	No0156	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_157	No0157	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_158	No0158	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_159	No0159	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_160	No0160	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c181e_161	No0161	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_162	No0162	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_163	No0163	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_164	No0164	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_165	No0165	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_166	No0166	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_167	No0167	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_168	No0168	1156+295	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c181e_170	No0170	3C454.3	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	x
c181e_172	No0172	3C454.3	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_174	No0174	3C454.3	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	x
c181e_177	No0177	3C454.3	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	x
c181e_179	No0179	3C454.3	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_182	No0182	3C454.3	3mm_RDBE	09	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_184	No0184	3C454.3	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c181e_187	No0187	3C454.3	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o