C192C/MB011B Correlation Report

General information

- Consists of only one science project: **MB011B**
- 2013+370 (277:1445-1701) data from C192B are also used for MB011B.
  For perfomance of this part see C192B page, the pclist for the fits of this part see below
  as mb011b_ADD.fits.
- PI: Bach
- Targets: Cygnus A (including the second phase center Cygnus A2, see Notes section below)
- Session info: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/
- Station feedback: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/oct19/feedback_oct19.asc
- Text file with detailed antenna statistics, scroll down to get to the cumulative statistics for the whole experiment:
  c192c_ALL.antrep

  c192c_PV_ALL.antrep
- Two correlations were done, the main with P3 = Pico Veleta DBBC3 (16 x 32 MHz per pol)
  and another with PV = Pico Veleta DBBC2 (8 x 64 MHz per pol).
  All files without additional mark refer to the P3 correlation, and those marked with PV -- to the PV one.

Current Status

Correlation finished, data **released to PI** on 14.04.2020.

Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	**yes**	Fringe overview of all baselines (all of C192A) including this antenna in LL(left for each baseline) and RR (right for each baseline). Legend: white box - scheduled, but no data, blue - no fringe, green -- good fringe, red -- false fringe found by fourfit (detected by very large SBD). c192c_SBD_RfAnt_Ef_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Ef_LLRR_AllSrc.pdf Examples of fourfit fringe plots can be found in: No0048_Ef.pdf, No0048_PV_Ef.pdf	Participated in **77 out of 78** scheduled scans, fringes in **774 out of 1462** expected baselines in || pols, mean **SNR 44**. See .antrep file for detailed per source and per scan statistics.

Station	Code	Fringes	Plots	Comments
			Antenna statistics: c192c_Ef.antrep, c192c_PV_Ef.antrep **Same for all antennas below unless otherwise noted.**	
On	X	**yes**	c192c_SBD_RfAnt_On_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_On_LLRR_AllSrc.pdf No0056_On.pdf, No0056_PV_On.pdf c192c_On.antrep, c192c_PV_On.antrep	Participated in **80 out of 82** scheduled scans, fringes in **813 out of 1534** expected baselines in || pols, mean **SNR 46**. See .antrep file for detailed per source and per scan statistics.
Ys	Y	yes	c192c_SBD_RfAnt_Ys_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Ys_LLRR_AllSrc.pdf No0065_Ys.pdf, No0065_PV_Ys.pdf c192c_Ys.antrep, c192c_PV_Ys.antrep	Participated in **78 out of 78** scheduled scans, fringes in **628 out of 1470** expected baselines in || pols, mean **SNR 34**. See .antrep file for detailed per source and per scan statistics.
Mh	Z	yes	c192c_SBD_RfAnt_Mh_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Mh_LLRR_AllSrc.pdf No0011_Mh.pdf, No0011_PV_Mh.pdf c192c_Mh.antrep, c192c_PV_Mh.antrep	Participated in **82 out of 82** scheduled scans, fringes in **543 out of 1550** expected baselines in || pols, mean **SNR 21**. See .antrep file for detailed per source and per scan statistics.
Pv	P	yes	c192cPV_SBD_RfAnt_Pv_LLRR_AllSrc.pdf No0067_PV_Pv.pdf c192c_PV_Pv.antrep	Pv is Pico Veleta with DBBC2 Due to an undetermined problem both polarization channels recorded RCP and **LCP was lost for about a quarter of this experiment**. Scans No0001-No0024 have this problem, starting from No0025 polarization setup gets to normal: map of good/bad polarization scans is HERE (red = bad, green = good) That's why only a secondary correlation was made with this backend, primary production correlation was done with DBBC3 backend, P3. Participated in **68 out of 73** scheduled scans, fringes in **765 out of 1338** expected baselines in || pols, mean **SNR 79**. See .antrep file for detailed per source and per scan statistics.

Station	Code	Fringes	Plots	Comments
P3	i	yes	c192c_SBD_RfAnt_P3_LLRR_AllSrc.pdf No0067_P3.pdf c192c_P3.antrep	P3 is Pico Veleta with DBBC3 (16 x 32MHz per pol) Because of problems with DBBC2 data this was used in the primary production correlation. Participated in **68 out of 73** scheduled scans, fringes in **790 out of 1338** expected baselines in || pols, mean **SNR 50**. See .antrep file for detailed per source and per scan statistics. **Special processing** was applied to this data, it is described in detail HERE.
GLT: Gl	g	yes	c192c_SBD_RfAnt_Gl_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Gl_LLRR_AllSrc.pdf No0048_Gl.pdf, No0048_PV_Gl.pdf c192c_Gl.antrep, c192c_PV_Gl.antrep	Participated in **117 out of 117** scheduled scans, fringes in **428 out of 2248** expected baselines in || pols, mean **SNR 25**. See .antrep file for detailed per source and per scan statistics. Observations interrupted by snow stops, some flagging may be necessary.
VLBA: Br	b	**yes**	c192c_SBD_RfAnt_Br_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Br_LLRR_AllSrc.pdf No0044_Br.pdf, No0044_PV_Br.pdf c192c_Br.antrep, c192c_PV_Br.antrep	Participated in **80 out of 80** scheduled scans, fringes in **63 out of 1768** expected baselines in || pols, mean **SNR 15**. See .antrep file for detailed per source and per scan statistics. **Poorly performed.** A detailed report on VLBA's poor performance in this session is given HERE.
VLBA: Fd	f	**yes**	c192c_SBD_RfAnt_Fd_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Fd_LLRR_AllSrc.pdf No0080_Fd.pdf No0080_PV_Fd.pdf c192c_Fd.antrep c192c_PV_Fd.antrep	Participated in **80 out of 80** scheduled scans, fringes in **179 out of 1768** expected baselines in || pols, mean **SNR 22**. See .antrep file for detailed per source and per scan statistics. **Poorly performed.** A detailed report on VLBA's poor performance in this session is given HERE.
VLBA: Kp	k	**yes**	c192c_SBD_RfAnt_Kp_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Kp_LLRR_AllSrc.pdf No0065_Kp.pdf No0065_PV_Kp.pdf c192c_Kp.antrep	Participated in **76 out of 76** scheduled scans, fringes in **154 out of 1692** expected baselines in || pols, mean **SNR 15**. See .antrep file for detailed per source and per scan statistics. **Poorly performed.** A detailed report on VLBA's poor performance in this session is given HERE.

Station	Code	Fringes	Plots	Comments
			c192c_PV_Kp.antrep	
VLBA: La	l	**yes**	c192c_SBD_RfAnt_La_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_La_LLRR_AllSrc.pdf No0072_La.pdf No0072_PV_La.pdf c192c_La.antrep c192c_PV_La.antrep	Participated in **80 out of 80** scheduled scans, fringes in **171 out of 1768** expected baselines in || pols, mean **SNR 19**. See .antrep file for detailed per source and per scan statistics. **Poorly performed.** A detailed report on VLBA's poor performance in this session is given HERE.
VLBA: Mk	m	yes	c192c_SBD_RfAnt_Mk_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Mk_LLRR_AllSrc.pdf No0075_Mk.pdf No0075_PV_Mk.pdf c192c_Mk.antrep c192c_PV_Mk.antrep	Participated in **54 out of 54** scheduled scans, fringes in **147 out of 1176** expected baselines in || pols, mean **SNR 13**. See .antrep file for detailed per source and per scan statistics. **Poorly performed.** A detailed report on VLBA's poor performance in this session is given HERE.
VLBA: Nl	n	**yes**	c192c_SBD_RfAnt_Nl_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Nl_LLRR_AllSrc.pdf No0117_Nl.pdf No0117_PV_Nl.pdf c192c_Nl.antrep c192c_PV_Nl.antrep 80 80 0.991 99 1768 1768 29 2 10	Participated in **80 out of 80** scheduled scans, fringes in **29 out of 1768** expected baselines in || pols, mean **SNR 10**. See .antrep file for detailed per source and per scan statistics. **Poorly performed.** A detailed report on VLBA's poor performance in this session is given HERE.
VLBA: Ov	o	**yes**	c192c_SBD_RfAnt_Ov_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Ov_LLRR_AllSrc.pdf No0070_Ov.pdf No0070_PV_Ov.pdf c192c_Ov.antrep	. Participated in **75 out of 76** scheduled scans, fringes in **277 out of 1670** expected baselines in || pols, mean **SNR 20**. See .antrep file for detailed per source and per scan statistics. **Poorly performed.** A detailed report on VLBA's poor performance in this session is given HERE.

Station	Code	Fringes	Plots	Comments
			c192c_PV_Ov.antrep	
VLBA: Pt	p	**yes**	c192c_SBD_RfAnt_Pt_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Pt_LLRR_AllSrc.pdf No0072_Pt.pdf No0077_PV_Pt.pdf c192c_Pt.antrep c192c_PV_Pt.antrep	Participated in **80 out of 80** scheduled scans, fringes in **54 out of 1768** expected baselines in || pols, mean **SNR 11**. See .antrep file for detailed per source and per scan statistics. **Poorly performed.** A detailed report on VLBA's poor performance in this session is given HERE.
KVN: Kt	t	yes	c192c_SBD_RfAnt_Kt_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Kt_LLRR_AllSrc.pdf No0011_Kt.pdf, No0011_PV_Kt.pdf c192c_Kt.antrep, c192c_PV_Kt.antrep	KVN observed in 8 x 64 MHz mode for the first time (correlated as 16 x 32 MHz with P3). Some loss of data due to bad weather and operational mistakes, but in general performance is much better than in any previous session, Participated in **42 out of 54** scheduled scans, fringes in **258 out of 792** expected baselines in || pols, mean **SNR 28**. See .antrep file for detailed per source and per scan statistics.
KVN: Ku	u	yes	c192c_SBD_RfAnt_Ku_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Ku_LLRR_AllSrc.pdf No0011_Ku.pdf, No0011_PV_Ku.pdf c192c_Ku.antrep, c192c_PV_Ku.antrep	KVN observed in 8 x 64 MHz mode for the first time (correlated as 16 x 32 MHz with P3). Some loss of data due to bad weather and operational mistakes, but in general performance is much better than in any previous session, Participated in **44 out of 54** scheduled scans, fringes in **273 out of 832** expected baselines in || pols, mean **SNR 26**. See .antrep file for detailed per source and per scan statistics.
KVN: Ky	y	yes	c192c_SBD_RfAnt_Ky_LLRR_AllSrc.pdf c192cPV_SBD_RfAnt_Ky_LLRR_AllSrc.pdf No0011_Ky.pdf, No0011_PV_Ky.pdf c192c_Ky.antrep, c192c_PV_Ky.antrep	KVN observed in 8 x 64 MHz mode for the first time (correlated as 16 x 32 MHz with P3). Some loss of data due to bad weather and operational mistakes, but in general performance is much better than in any previous session, Participated in **34 out of 35** scheduled scans, fringes in **320 out of 904** expected baselines in || pols, mean **SNR 34**. See .antrep file for detailed per source and per scan statistics.

Notes

At PI's request the science target, Cygnus A2, was correlated with two phase centers:

CYG_A (normal position) : RA 19:59:28.3564680 DEC 40:44:02.096078
CYG_A2 : RA 19:59:28.3234500 DEC 40:44:01.913300

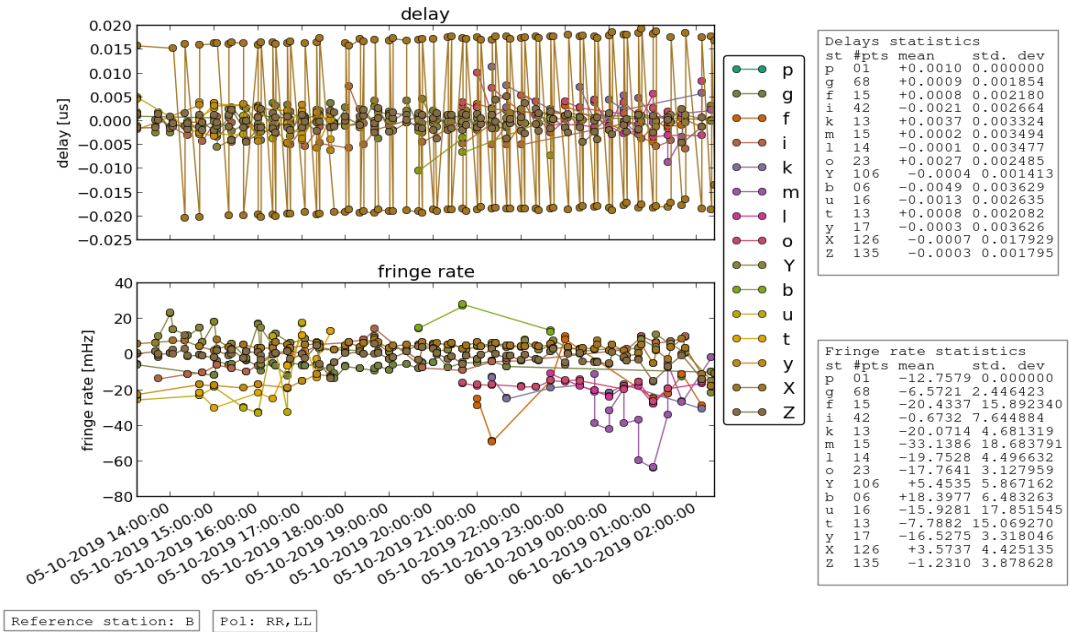
Special processing of the P3 data

Report on the VLBA problems in this session

Post-Correlation checks

Residuals

Ef *(with i=P3)*:



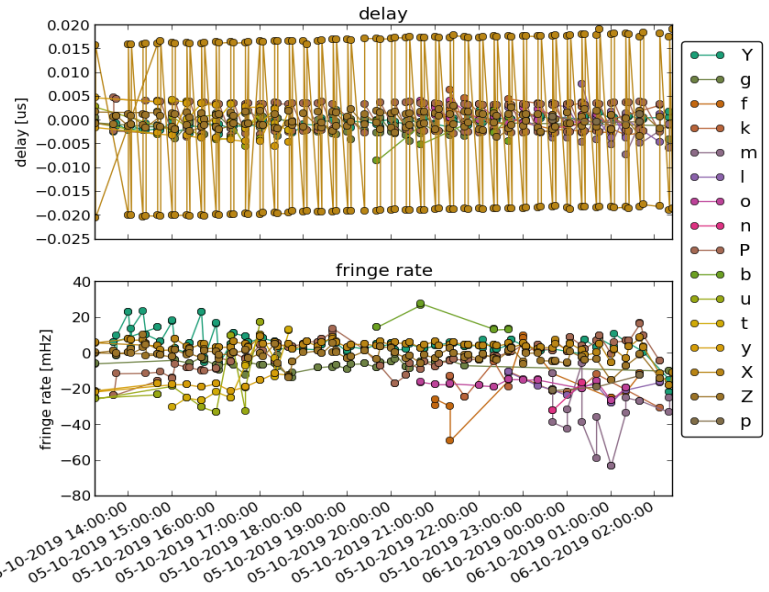
Delays statistics

st	#pts	mean	std. dev
p	01	+0.0010	0.000000
g	68	+0.0009	0.001854
f	15	+0.0008	0.002180
i	42	-0.0021	0.002664
k	13	+0.0037	0.003324
m	15	+0.0002	0.003494
l	14	-0.0001	0.003477
o	23	+0.0027	0.002485
Y	106	-0.0004	0.001413
b	06	-0.0049	0.003629
u	16	-0.0013	0.002635
t	13	+0.0008	0.002082
y	17	-0.0003	0.003626
X	126	-0.0007	0.017929
Z	135	-0.0003	0.001795

Fringe rate statistics

st	#pts	mean	std. dev
p	01	-12.7579	0.000000
g	68	-6.5721	2.446423
f	15	-20.4337	15.892340
i	42	-0.6732	7.644884
k	13	-20.0714	4.681319
m	15	-33.1386	18.683791
l	14	-19.7528	4.496632
o	23	-17.7641	3.127959
Y	106	+5.4535	5.867162
b	06	+18.3977	6.483263
u	16	-15.9281	17.851545
t	13	-7.7882	15.069270
y	17	-16.5275	3.318046
X	126	+3.5737	4.425135
Z	135	-1.2310	3.878628

Ef *(with P=Pv)*:



Delays statistics

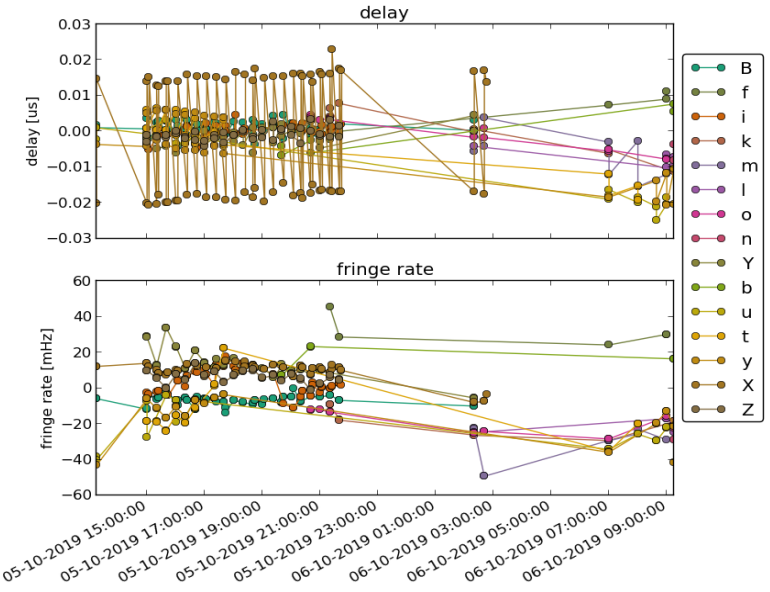
st	#pts	mean	std. dev
Y	126	-0.0004	0.001047
g	65	-0.0011	0.001595
f	13	-0.0004	0.002128
k	16	+0.0018	0.002607
m	16	-0.0019	0.003179
l	16	-0.0001	0.003158
o	24	+0.0010	0.001649
n	03	-0.0005	0.001117
P	121	+0.0008	0.003003
b	08	-0.0024	0.003243
u	16	-0.0013	0.002415
t	16	+0.0011	0.002038
y	20	-0.0006	0.003566
X	150	-0.0009	0.018103
Z	135	-0.0000	0.001483
p	05	+0.0003	0.000652

Fringe rate statistics

st	#pts	mean	std. dev
Y	126	+5.4354	6.209110
g	65	-6.2317	2.462873
f	13	-18.0466	15.263691
k	16	-18.0200	6.212622
m	16	-34.7864	15.848346
l	16	-18.8473	4.613058
o	24	-17.6520	3.131536
n	03	-26.6942	7.197269
P	121	-0.8265	7.711662
b	08	+17.2403	5.987093
u	16	-15.9307	17.874793
t	16	-11.5456	15.606165
y	20	-16.7504	3.006687
X	150	+3.8595	4.263394
Z	135	-1.1774	3.917263
p	05	-16.8620	3.823064

Reference station: B | Pol: RR,LL

GLT *(with i=P3)*:



Delays statistics

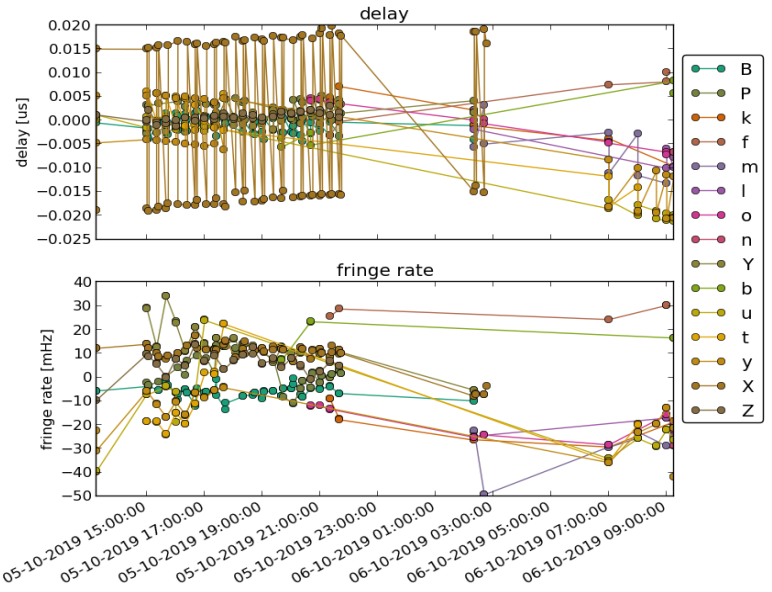
st	#pts	mean	std. dev
B	68	+0.0009	0.001854
f	05	+0.0050	0.005232
i	49	+0.0000	0.001632
k	10	-0.0011	0.006099
m	09	-0.0057	0.005958
l	05	-0.0075	0.002207
o	13	-0.0008	0.004357
n	02	-0.0059	0.002331
Y	40	-0.0015	0.002451
b	06	-0.0011	0.005625
u	19	-0.0090	0.009529
t	20	-0.0018	0.007858
y	26	-0.0046	0.008577
X	68	-0.0013	0.016883
Z	42	-0.0009	0.001658

Fringe rate statistics

st	#pts	mean	std. dev
B	68	-6.5721	2.446423
f	05	+31.8377	7.222129
i	49	+3.5207	7.039049
k	10	-20.1693	7.090947
m	09	-31.0953	10.088082
l	05	-20.8720	3.423839
o	13	-19.1887	6.424736
n	02	-25.4366	3.261002
Y	40	+13.7455	8.160695
b	06	+15.7016	6.539732
u	19	-21.5526	11.255532
t	20	-13.7443	14.989249
y	26	-14.4044	10.626872
X	68	+9.8430	5.117723
Z	42	+6.3029	3.342450

Reference station: g | Pol: RR,LL

GLT *(with P=Pv)*:



Delays statistics

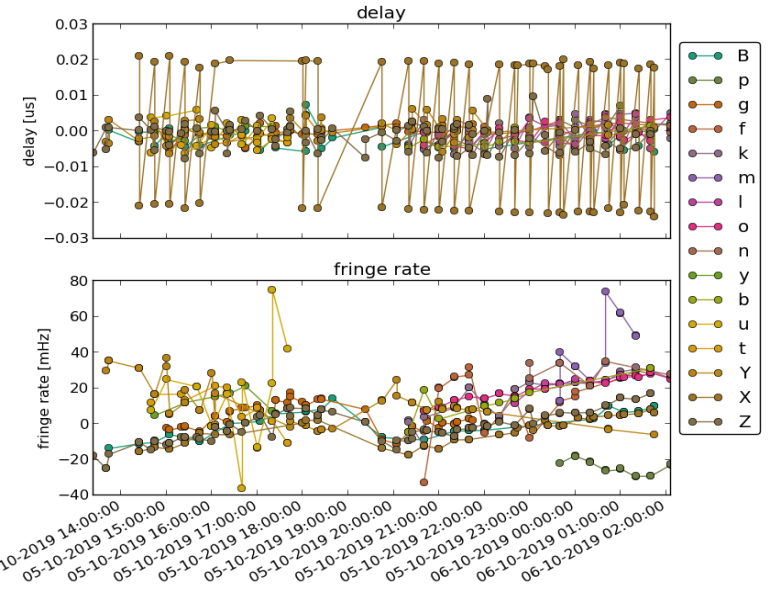
st	#pts	mean	std. dev
B	65	-0.0011	0.001595
P	42	+0.0026	0.001775
k	10	-0.0005	0.005323
f	05	+0.0045	0.005194
m	09	-0.0052	0.005540
l	05	-0.0071	0.003033
o	13	-0.0001	0.004183
n	02	-0.0067	0.000026
Y	44	-0.0000	0.001672
b	06	-0.0005	0.005440
u	24	-0.0085	0.009330
t	21	-0.0016	0.007548
y	30	-0.0050	0.008543
X	77	-0.0001	0.016875
Z	44	+0.0008	0.000894

Fringe rate statistics

st	#pts	mean	std. dev
B	65	-6.2317	2.462873
P	42	+2.7886	6.931553
k	10	-20.1675	7.106017
f	05	+27.8255	2.452832
m	09	-31.1022	10.072652
l	05	-20.8743	3.414735
o	13	-19.1949	6.423243
n	02	-25.4466	3.270908
Y	44	+13.6203	7.812141
b	06	+15.7297	6.551287
u	24	-16.5559	16.470861
t	21	-13.0089	15.016261
y	30	-15.6098	9.980697
X	77	+9.7314	5.644740
Z	44	+6.0246	4.121347

Reference station: g | Pol: RR,LL

Pico Veleta *(i = P3)*:



Delays statistics

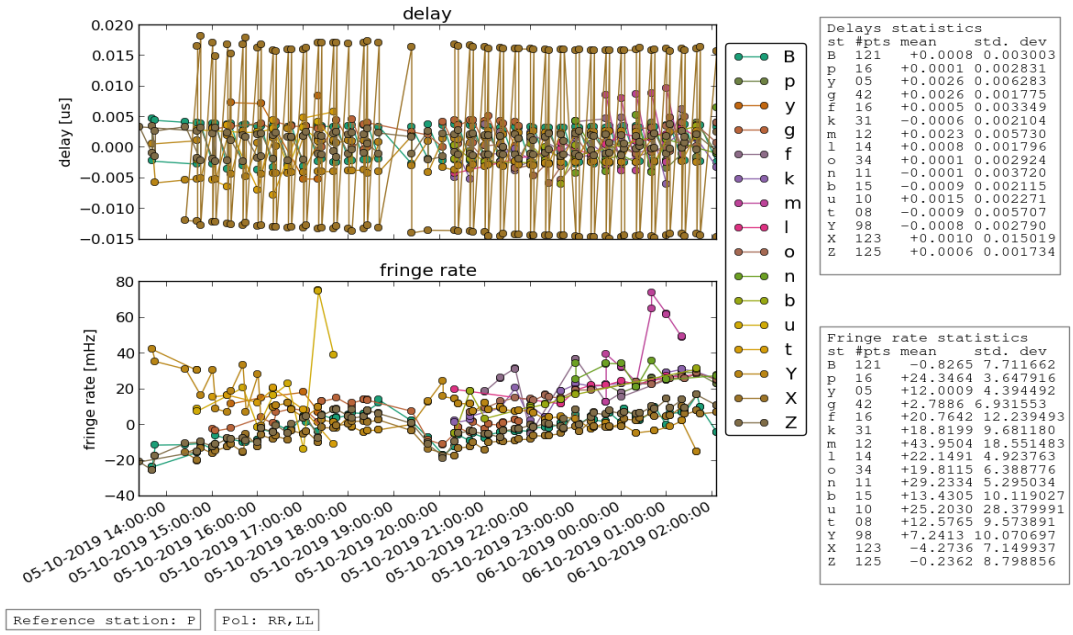
st	#pts	mean	std. dev
B	42	-0.0021	0.002664
p	15	+0.0018	0.001798
g	49	+0.0000	0.001632
f	18	-0.0007	0.002367
k	31	-0.0011	0.003273
m	12	+0.0017	0.002844
l	17	+0.0000	0.003097
o	28	-0.0010	0.002328
n	09	-0.0002	0.002907
y	07	+0.0003	0.001353
b	11	-0.0024	0.002032
u	15	+0.0002	0.003475
t	12	-0.0030	0.002065
Y	51	+0.0001	0.002846
X	62	+0.0004	0.020462
Z	93	-0.0014	0.003680

Fringe rate statistics

st	#pts	mean	std. dev
B	42	-0.6732	7.644884
p	15	-24.4331	3.833388
g	49	+3.5207	7.039049
f	18	+14.2845	16.423320
k	31	+18.2368	10.478932
m	12	+41.3435	17.582603
l	17	+23.2283	4.943508
o	28	+19.1748	6.586652
n	09	+28.9652	5.261126
y	07	+12.7987	5.284182
b	11	+14.3147	10.225836
u	15	+13.6467	25.040172
t	12	+8.4204	10.353816
Y	51	+10.8220	11.510457
X	62	-3.4733	7.474568
Z	93	-1.0330	8.619138

Reference station: i | Pol: RR,LL

Pico Veleta (*P = Pv*):



Delays statistics

st	#pts	mean	std. dev
B	121	+0.0008	0.003003
p	16	+0.0001	0.002831
y	05	+0.0026	0.006283
g	42	+0.0026	0.001775
f	16	+0.0005	0.003349
k	31	-0.0006	0.002104
m	12	+0.0023	0.005730
l	14	+0.0008	0.001796
o	34	+0.0001	0.002924
n	11	-0.0001	0.003720
b	15	-0.0009	0.002115
u	10	+0.0015	0.002271
t	08	-0.0009	0.005707
Y	98	-0.0008	0.002790
X	123	+0.0010	0.015019
Z	125	+0.0006	0.001734

Fringe rate statistics

st	#pts	mean	std. dev
B	121	-0.8265	7.711662
p	16	+24.3464	3.647916
y	05	+12.0009	4.394492
g	42	+2.7886	6.931553
f	16	+20.7642	12.239493
k	31	+18.8199	9.681180
m	12	+43.9504	18.551483
l	14	+22.1491	4.923763
o	34	+19.8115	6.388776
n	11	+29.2334	5.295034
b	15	+13.4305	10.119027
u	10	+25.2030	28.379991
t	08	+12.5765	9.573891
Y	98	+7.2413	10.070697
X	123	-4.2736	7.149937
Z	125	-0.2362	8.798856

Reference station: P | 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
```

mb011b.fits:

```
                                EF P3 YS ON MH GL KY KU KT NL FD PT LA BR OV KP MK
c192c_001 No0001 2013+370 3mm_ddc o  o  o  o  o  o  09 19 x  .  .  .  .  .  .  .
c192c_002 No0002    CYG_A 3mm_ddc x  o  96 29 o  o  x  x  x  .  .  .  .  .  .  .
c192c_003 No0003 2013+370 3mm_ddc o  o  o  x  o  o  x  x  x  .  .  .  .  .  .  .
c192c_004 No0004    CYG_A 3mm_ddc o  o  94 x  o  o  x  x  x  .  .  .  .  .  .  .
c192c_005 No0005 2013+370 3mm_ddc o  x  o  o  o  o  x  x  x  .  .  .  .  .  .  .
c192c_006 No0006    CYG_A 3mm_ddc o  x  94 o  o  o  x  x  x  .  .  .  .  .  .  .
c192c_007 No0007 2013+370 3mm_ddc o  x  o  o  o  o  x  x  x  .  .  .  .  .  .  .
c192c_008 No0008    CYG_A 3mm_ddc o  o  98 o  o  o  15 23 23 .  .  .  .  .  .  .
c192c_009 No0009 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .
c192c_010 No0010    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .
c192c_011 No0011 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .
c192c_012 No0012    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .
c192c_013 No0013 2013+370 3mm_ddc o  o  o  o  o  o  o  x  o  .  .  .  .  .  .  .
c192c_014 No0014    CYG_A 3mm_ddc o  o  98 o  o  o  o  98 o  .  .  .  .  .  .  .
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c192c_015 No0015 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_016 No0016    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_017 No0017 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_018 No0018    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_019 No0019 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_020 No0020    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_021 No0021 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_022 No0022    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_023 No0023 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_024 No0024    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_025 No0025 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_026 No0026    CYG_A 3mm_ddc o  o  98 o  o  o  o  78 o  .  .  .  .  .  .  .  .
c192c_027 No0027 2013+370 3mm_ddc o  o  o  o  o  o  o  22 o  .  .  .  .  .  .  .  .
c192c_028 No0028    CYG_A 3mm_ddc o  o  98 o  o  o  70 70 62 .  .  .  .  .  .  .  .
c192c_029 No0029 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_030 No0030    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_031 No0031 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_032 No0032    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_033 No0033 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_034 No0034    CYG_A 3mm_ddc o  x  98 o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_035 No0035 2013+370 3mm_ddc o  x  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_036 No0036    CYG_A 3mm_ddc o  .  98 o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_037 No0037    BLLAC 3mm_ddc o  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_038 No0038 2013+370 3mm_ddc o  .  o  o  o  o  .  .  .  o  o  88 o  o  .  .  .
c192c_039 No0039    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  .  .  .
c192c_040 No0040 2013+370 3mm_ddc o  .  o  o  o  o  .  .  .  o  o  o  o  o  .  .  .
c192c_041 No0041    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  .  .  .
c192c_042 No0042 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  x  o  .
c192c_043 No0043    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_044 No0044 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_045 No0045    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_046 No0046 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_047 No0047    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_048 No0048 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_049 No0049    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_050 No0050 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_051 No0051    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_052 No0052 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_053 No0053    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_054 No0054 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_055 No0055    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_056 No0056 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_057 No0057    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_058 No0058 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_059 No0059    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_060 No0060 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_061 No0061    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_062 No0062 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_063 No0063    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_064 No0064    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  .
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c192c_065 No0065 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_066 No0066    CYG_A 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_067 No0067 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_068 No0068    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_069 No0069    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_070 No0070 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_071 No0071    CYG_A 3mm_ddc o  o  23 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_072 No0072 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_073 No0073    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_074 No0074    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_075 No0075 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_076 No0076    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_077 No0077 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_078 No0078    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_079 No0079    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_080 No0080  3C454.3 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_081 No0081 2013+370 3mm_ddc o  .  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_082 No0082    CYG_A 3mm_ddc o  .  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_083 No0083    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_084 No0084 2013+370 3mm_ddc .  .  .  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_085 No0085    CYG_A 3mm_ddc .  .  .  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_086 No0086 2013+370 3mm_ddc .  .  .  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_087 No0087    CYG_A 3mm_ddc .  .  .  o  o  o  .  .  .  o  o  o  o  o  98 o  o
c192c_088 No0088 2013+370 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_089 No0089    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_090 No0090    CYG_A 3mm_ddc .  .  .  .  .  o  96 x  x  o  o  o  o  o  o  o  o
c192c_091 No0091    CYG_A 3mm_ddc .  .  .  .  .  o  o  x  16 o  o  o  o  o  o  o  o
c192c_092 No0092 2013+370 3mm_ddc .  .  .  .  .  o  o  x  o  o  o  o  o  o  o  o  o
c192c_093 No0093    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_094 No0094    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_095 No0095    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_096 No0096    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_097 No0097  3C454.3 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_098 No0098    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_099 No0099    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_100 No0100 2013+370 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_101 No0101    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_102 No0102    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_103 No0103    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_104 No0104    BLLAC 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_105 No0105    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_106 No0106 2013+370 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_107 No0107    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_108 No0108    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_109 No0109    BLLAC 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_110 No0110    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_111 No0111 2013+370 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_112 No0112    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_113 No0113    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  o  o  o  o  o  o  o  o  o
c192c_114 No0114    BLLAC 3mm_ddc .  .  .  .  .  o  o  o  x  o  o  o  o  o  o  o  o
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c192c_115 No0115    CYG_A 3mm_ddc .  .  .  .  .  o  o  o  x  o  o  o  o  o  o  o  o
c192c_116 No0116  3C454.3 3mm_ddc .  .  .  .  .  o  o  o  x  o  o  o  o  o  o  o  o
c192c_117 No0117  3C454.3 3mm_ddc .  .  .  .  .  o  o  o  x  o  o  o  o  o  o  o  o
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mb011b_PV.fits:

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                                EF PV YS ON MH GL KY KU KT NL FD PT LA BR OV KP MK
c192c_001 No0001 2013+370 3mm_ddc o  o  o  o  o  o  09 19 x  .  .  .  .  .  .  .  .
c192c_002 No0002    CYG_A 3mm_ddc x  o  96 29 o  o  x  x  x  .  .  .  .  .  .  .  .
c192c_003 No0003 2013+370 3mm_ddc o  o  o  x  o  o  x  x  x  .  .  .  .  .  .  .  .
c192c_004 No0004    CYG_A 3mm_ddc o  o  94 x  o  o  x  x  x  .  .  .  .  .  .  .  .
c192c_005 No0005 2013+370 3mm_ddc o  x  o  o  o  o  x  x  x  .  .  .  .  .  .  .  .
c192c_006 No0006    CYG_A 3mm_ddc o  x  94 o  o  o  x  x  x  .  .  .  .  .  .  .  .
c192c_007 No0007 2013+370 3mm_ddc o  x  o  o  o  o  x  x  x  .  .  .  .  .  .  .  .
c192c_008 No0008    CYG_A 3mm_ddc o  o  98 o  o  o  15 23 23 .  .  .  .  .  .  .  .
c192c_009 No0009 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_010 No0010    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_011 No0011 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_012 No0012    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_013 No0013 2013+370 3mm_ddc o  o  o  o  o  o  o  x  o  .  .  .  .  .  .  .  .
c192c_014 No0014    CYG_A 3mm_ddc o  o  98 o  o  o  o  98 o  .  .  .  .  .  .  .  .
c192c_015 No0015 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_016 No0016    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_017 No0017 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_018 No0018    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_019 No0019 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_020 No0020    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_021 No0021 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_022 No0022    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_023 No0023 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_024 No0024    CYG_A 3mm_ddc o  o  98 o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_025 No0025 2013+370 3mm_ddc o  o  o  o  o  o  o  o  o  .  .  .  .  .  .  .  .
c192c_026 No0026    CYG_A 3mm_ddc o  o  98 o  o  o  o  78 o  .  .  .  .  .  .  .  .
c192c_027 No0027 2013+370 3mm_ddc o  o  o  o  o  o  o  22 o  .  .  .  .  .  .  .  .
c192c_028 No0028    CYG_A 3mm_ddc o  o  98 o  o  o  70 70 62 .  .  .  .  .  .  .  .
c192c_029 No0029 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_030 No0030    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_031 No0031 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_032 No0032    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_033 No0033 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_034 No0034    CYG_A 3mm_ddc o  x  98 o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_035 No0035 2013+370 3mm_ddc o  x  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_036 No0036    CYG_A 3mm_ddc o  .  98 o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_037 No0037    BLLAC 3mm_ddc o  o  o  o  o  o  .  .  .  .  .  .  .  .  .  .  .
c192c_038 No0038 2013+370 3mm_ddc o  .  o  o  o  o  .  .  .  o  o  88 o  o  .  .  .
c192c_039 No0039    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  .  .  .
c192c_040 No0040 2013+370 3mm_ddc o  .  o  o  o  o  .  .  .  o  o  o  o  o  .  .  .
c192c_041 No0041    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  .  .  .
c192c_042 No0042 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  x  o  .
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c192c_043 No0043    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_044 No0044 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_045 No0045    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_046 No0046 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_047 No0047    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_048 No0048 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_049 No0049    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_050 No0050 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_051 No0051    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_052 No0052 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_053 No0053    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_054 No0054 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_055 No0055    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_056 No0056 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_057 No0057    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_058 No0058 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_059 No0059    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_060 No0060 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_061 No0061    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_062 No0062 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_063 No0063    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_064 No0064    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  .
c192c_065 No0065 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_066 No0066    CYG_A 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_067 No0067 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_068 No0068    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_069 No0069    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_070 No0070 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_071 No0071    CYG_A 3mm_ddc o  o  23 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_072 No0072 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_073 No0073    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_074 No0074    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_075 No0075 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_076 No0076    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_077 No0077 2013+370 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_078 No0078    CYG_A 3mm_ddc o  o  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_079 No0079    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_080 No0080  3C454.3 3mm_ddc o  o  o  o  o  o  .  .  .  o  o  o  o  o  o  o  .
c192c_081 No0081 2013+370 3mm_ddc o  .  o  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_082 No0082    CYG_A 3mm_ddc o  .  98 o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_083 No0083    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_084 No0084 2013+370 3mm_ddc .  .  .  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_085 No0085    CYG_A 3mm_ddc .  .  .  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_086 No0086 2013+370 3mm_ddc .  .  .  o  o  o  .  .  .  o  o  o  o  o  o  o  o
c192c_087 No0087    CYG_A 3mm_ddc .  .  .  o  o  o  .  .  .  o  o  o  o  o  98 o  o
c192c_088 No0088 2013+370 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_089 No0089    BLLAC 3mm_ddc .  .  .  .  .  o  .  .  .  o  o  o  o  o  o  o  o
c192c_090 No0090    CYG_A 3mm_ddc .  .  .  .  .  o  96 x  x  o  o  o  o  o  o  o  o
c192c_091 No0091    CYG_A 3mm_ddc .  .  .  .  .  o  o  x  16 o  o  o  o  o  o  o  o
c192c_092 No0092 2013+370 3mm_ddc .  .  .  .  .  o  o  x  o  o  o  o  o  o  o  o  o
```

c192c_093	No0093		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_094	No0094		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_095	No0095		BLLAC	3mm_ddc	.	.	.	.	.	o	.	.	.	o	o	o	o	o	o	o	o
c192c_096	No0096		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_097	No0097		3C454.3	3mm_ddc	.	.	.	.	.	o	.	.	.	o	o	o	o	o	o	o	o
c192c_098	No0098		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_099	No0099		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_100	No0100	2013+370		3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_101	No0101		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_102	No0102		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_103	No0103		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_104	No0104		BLLAC	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_105	No0105		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_106	No0106	2013+370		3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_107	No0107		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_108	No0108		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_109	No0109		BLLAC	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_110	No0110		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_111	No0111	2013+370		3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_112	No0112		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_113	No0113		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o	o	o
c192c_114	No0114		BLLAC	3mm_ddc	.	.	.	.	.	o	o	o	x	o	o	o	o	o	o	o	o
c192c_115	No0115		CYG_A	3mm_ddc	.	.	.	.	.	o	o	o	x	o	o	o	o	o	o	o	o
c192c_116	No0116		3C454.3	3mm_ddc	.	.	.	.	.	o	o	o	x	o	o	o	o	o	o	o	o
c192c_117	No0117		3C454.3	3mm_ddc	.	.	.	.	.	o	o	o	x	o	o	o	o	o	o	o	o

mb011b_ADD.fits (based on c192b data, with P3 only):

					EF	P3	YS	ON	MH	GL	NL	FD	PT	LA	KP	OV	BR	MK	KY	KU	KT
c192b_067	No0067	2013+370	3mm_ddc	o	.	.	o	o	.	.	.	.	.	.	.	.	.	o	o	o
c192b_069	No0069	2013+370	3mm_ddc	o	.	.	o	o	.	.	.	.	.	.	.	.	.	o	o	o
c192b_071	No0071	2013+370	3mm_ddc	o	o	o	o	o	.	.	.	.	.	.	.	.	.	o	o	o
c192b_074	No0074	2013+370	3mm_ddc	o	o	o	o	o	.	.	.	.	.	.	.	.	.	o	o	o
c192b_076	No0076	2013+370	3mm_ddc	o	o	o	o	o	.	.	.	.	.	.	.	.	.	o	o	o
c192b_078	No0078	2013+370	3mm_ddc	o	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c192b_080	No0080	2013+370	3mm_ddc	o	o	o	o	o	.	.	.	.	.	.	.	.	.	o	o	o
c192b_083	No0083	2013+370	3mm_ddc	o	o	o	o	o	o	.	.	.	.	.	.	.	.	o	o	o
c192b_085	No0085	2013+370	3mm_ddc	o	o	o	o	o	.	.	.	.	.	.	.	.	.	28	o	o
c192b_087	No0087	2013+370	3mm_ddc	o	o	o	o	o	o	.	.	.	.	.	.	.	.	x	o	o