

# MK016C Correlation Report

## General information

- A part of [C202B](#).
- Includes 3mm and 7mm parts
- PI: KADLER
- Targets: Ext.Blaz 1959+650
- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: [http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/oct20/feedback\\_oct20.asc](http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/oct20/feedback_oct20.asc)
- Text files with detailed antenna statistics, scroll down to get to the cumulative statistics for the whole experiment:  
[c202b ALL 3mm.antrep](#)  
[c202b 7mm ALL.antrep](#)

## Current Status

Correlation finished, data **released to PI** on 28.04.2021.

## Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	yes	<p><b>Note: all plots and statistics are done for the whole of c202b</b></p> <p>Fringe overview of all baselines including this antenna in LL(left for each baseline) and RR (right for each baseline).</p> <p>Legend: white box - scheduled, but no data (or sometimes fourfit had trouble with the particular baseline/pol, so no data in alist), blue - no fringe, shades of green and brown -- fringes of varying quality.</p> <p><a href="#">c202b FRINGE RfAnt Ef LLRR AllSrc 3mm.pdf</a></p> <p>Examples of fourfit fringe plots can be found in (all fringe plots with baselines including the given antenna):</p> <p><a href="#">No0055 B 3mm.pdf</a></p> <p>Antenna statistics:</p> <p><a href="#">c202b Ef 3mm.antrep</a></p> <p><b>Same for all antennas below unless otherwise noted.</b></p>	<p>Participated in 99% scans (3mm only), fringes in 38% baselines*  pols, mean SNR 67.</p> <p><b>bad weather</b></p>
On	X	yes	<p><a href="#">c202b FRINGE RfAnt On LLRR AllSrc 3mm.pdf</a></p> <p><a href="#">No0082 X 3mm.pdf</a></p> <p><a href="#">No0283 X 3mm.pdf</a></p> <p><a href="#">c202b On 3mm.antrep</a></p>	<p>Participated in 100% scans (3mm only), fringes in 39% baselines*  pols, mean SNR 55.</p>

Ys	Y	yes	<a href="#">c202b FRINGE RfAnt Ys LLRR AllSrc 3mm.pdf</a> <a href="#">No0079_Y_3mm.pdf</a> <a href="#">No0080_Y_3mm.pdf</a> <a href="#">c202b_Ys_3mm.antrep</a>	Participated in 94% scans (3mm only), fringes in 47% baselines*  pols, mean SNR 102.
Mh	Z	yes	<a href="#">c202b FRINGE RfAnt Mh LLRR AllSrc 3mm.pdf</a> <a href="#">No0163_Z_3mm.pdf</a> <a href="#">c202b_Mh_3mm.antrep</a>	Participated in 84% scans (3mm only), fringes in 26% baselines*  pols, mean SNR 26.  <b>bad weather</b>
Pv	P	yes	<a href="#">c202b FRINGE RfAnt Pv LLRR AllSrc 3mm.pdf</a> <a href="#">No0079_P_3mm.pdf</a> <a href="#">No0080_P_3mm.pdf</a> <a href="#">c202b_Pv_3mm.antrep</a>	Participated in 100% scans (3mm only), fringes in 61% baselines*  pols, mean SNR 113.
VLBA: Br	b	yes	<a href="#">c202b FRINGE RfAnt Br LLRR AllSrc 3mm.pdf</a> <a href="#">No0079_b_3mm.pdf</a> <a href="#">No0101_b_3mm.pdf</a> <a href="#">c202b_Br_3mm.antrep</a> <a href="#">c202b FRINGE RfAnt Br LLRR AllSrc 7mm.pdf</a> <a href="#">No0154_b_7mm.pdf</a> <a href="#">c202b_7mm_Br.antrep</a>	3mm: participated in 100% scans, fringes in 33% baselines*  pols, mean SNR 22.  7mm: participated in 100% scans, fringes in 83% baselines*  pols, mean SNR 200..
VLBA: Fd	f	yes	<a href="#">c202b FRINGE RfAnt Fd LLRR AllSrc 3mm.pdf</a> <a href="#">No0028_f_3mm.pdf</a> <a href="#">No0117_f_3mm.pdf</a> <a href="#">c202b_Fd_3mm.antrep</a> <a href="#">c202b FRINGE RfAnt Fd LLRR AllSrc 7mm.pdf</a> <a href="#">No0154_f_7mm.pdf</a> <a href="#">c202b_7mm_Fd.antrep</a>	3mm: participated in 99% scans, fringes in 49% baselines*  pols, mean SNR 33.  7mm: participated in 99% scans, fringes in 87% baselines*  pols, mean SNR 238.

VLBA: Kp	k	yes	<a href="#">c202b FRINGE RfAnt Kp LLRR AllSrc 3mm.pdf</a> <a href="#">No0119_k_3mm.pdf</a> <a href="#">c202b_Kp_3mm.antrep</a> <a href="#">c202b FRINGE RfAnt Kp LLRR AllSrc 7mm.pdf</a> <a href="#">No0154_k_7mm.pdf</a> <a href="#">c202b_7mm_Kp.antrep</a>	<p>3mm: participated in 99% scans, fringes in 37% baselines*  pols, mean SNR 26.</p> <p>7mm: participated in 99% scans, fringes in 87% baselines*  pols, mean SNR 261.</p>
VLBA: La	l	yes	<a href="#">c202b FRINGE RfAnt La LLRR AllSrc 3mm.pdf</a> <a href="#">No0070_l_3mm.pdf</a> <a href="#">No0111_l_3mm.pdf</a> <a href="#">c202b_La_3mm.antrep</a> <a href="#">c202b FRINGE RfAnt La LLRR AllSrc 7mm.pdf</a> <a href="#">No0154_l_7mm.pdf</a> <a href="#">c202b_7mm_La.antrep</a>	<p>3mm: participated in 80% scans, fringes in 46% baselines*  pols, mean SNR 34.</p> <p>7mm: participated in 80% scans, fringes in 89% baselines*  pols, mean SNR 217.</p> <p><b>dropped out for several scans due to USNO observations</b></p>
VLBA: Mk	m	yes	<a href="#">c202b FRINGE RfAnt Mk LLRR AllSrc 3mm.pdf</a> <a href="#">No0105_m_3mm.pdf</a> <a href="#">c202b_Mk_3mm.antrep</a> <a href="#">c202b FRINGE RfAnt Mk LLRR AllSrc 7mm.pdf</a> <a href="#">No0154_m_7mm.pdf</a> <a href="#">c202b_7mm_Mk.antrep</a>	<p>3mm: participated in 96% scans, fringes in 29% baselines*  pols, mean SNR 17.</p> <p>7mm: participated in 96% scans, fringes in 85% baselines*  pols, mean SNR 176.</p> <p><b>dropped out for several scans due to USNO observations</b></p>
VLBA: Nl	n	yes	<a href="#">c202b FRINGE RfAnt Nl LLRR AllSrc 3mm.pdf</a> <a href="#">No0105_n_3mm.pdf</a> <a href="#">c202b_Nl_3mm.antrep</a> <a href="#">c202b FRINGE RfAnt Nl LLRR AllSrc 7mm.pdf</a> <a href="#">No0154_n_7mm.pdf</a> <a href="#">c202b_7mm_Nl.antrep</a>	<p>3mm: participated in 100% scans, fringes in 17% baselines*  pols, mean SNR 15.</p> <p>7mm: participated in 100% scans, fringes in 82% baselines*  pols, mean SNR 167.</p>
VLBA: Ov	o	yes	<a href="#">c202b FRINGE RfAnt Ov LLRR AllSrc 3mm.pdf</a>	.

			<a href="#">No0103_o_3mm.pdf</a> <a href="#">No0277_o_3mm.pdf</a> <a href="#">c202b_Ov_3mm.antrep</a> <a href="#">c202b_FRINGE_RfAnt_Ov_LLRR_AllSrc_7mm.pdf</a> <a href="#">No0154_o_7mm.pdf</a> <a href="#">c202b_7mm_Ov.antrep</a>	<p>3mm: participated in 100% scans, fringes in 31% baselines*  pols, mean SNR 25.</p> <p>7mm: participated in 100% scans, fringes in 72% baselines*  pols, mean SNR 187.</p>
VLBA: Pt	p	yes	<a href="#">c202b_FRINGE_RfAnt_Pt_LLRR_AllSrc_3mm.pdf</a> <a href="#">No0113_p_3mm.pdf</a> <a href="#">c202b_Pt_3mm.antrep</a> <a href="#">c202b_FRINGE_RfAnt_Pt_LLRR_AllSrc_7mm.pdf</a> <a href="#">No0154_p_7mm.pdf</a> <a href="#">c202b_7mm_Pt.antrep</a>	<p>3mm: participated in 100% scans, fringes in 20% baselines*  pols, mean SNR 20.</p> <p>7mm: participated in 100% scans, fringes in 66% baselines*  pols, mean SNR 120.</p> <p><b>lots of technical problems, see logs</b></p>
VLBA: Hn	h	yes	<a href="#">c202b_FRINGE_RfAnt_Hn_LLRR_AllSrc_7mm.pdf</a> <a href="#">No0154_h_7mm.pdf</a> <a href="#">c202b_7mm_Hn.antrep</a>	<p>Participated in 100% scans (7mm only), fringes in 71% baselines*  pols, mean SNR 106.</p>
VLBA: Sc	c	yes	<a href="#">c202b_FRINGE_RfAnt_Sc_LLRR_AllSrc_7mm.pdf</a> <a href="#">No0154_c_7mm.pdf</a> <a href="#">c202b_7mm_Sc.antrep</a>	<p>Participated in 100% scans (7mm only), fringes in 70% baselines*  pols, mean SNR 94.</p>
KVN: Kt	t	yes	<a href="#">c202b_FRINGE_RfAnt_Kt_LLRR_AllSrc_3mm.pdf</a> <a href="#">No0119_t_3mm.pdf</a> <a href="#">No0162_t_3mm.pdf</a> <a href="#">c202b_Kt_3mm.antrep</a>	<p>Participated in 98% scans (3mm only), fringes in 46% baselines*  pols, mean SNR 98.</p>
KVN: Ku	u	yes	<a href="#">c202b_FRINGE_RfAnt_Ku_LLRR_AllSrc_3mm.pdf</a> <a href="#">No0119_u_3mm.pdf</a> <a href="#">No0162_u_3mm.pdf</a>	<p>Participated in 91% scans (3mm only), fringes in 45% baselines*  pols, mean SNR 96.</p>

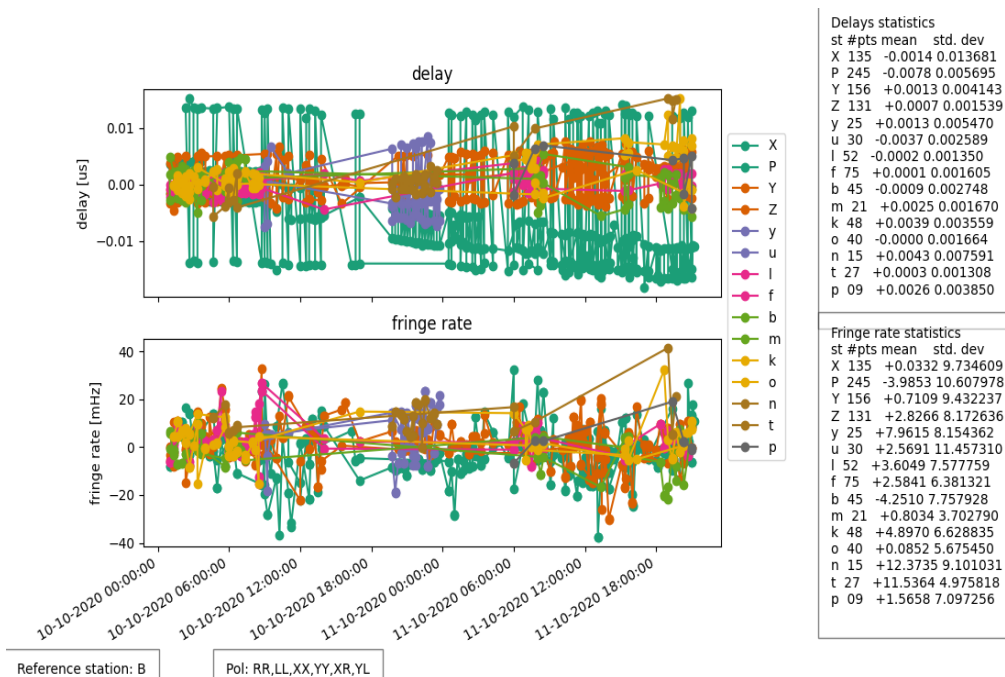
		y	<a href="#">c202b_Ku_3mm.antrep</a>	
KVN: Ky	y	yes	<a href="#">c202b FRINGE RfAnt_Ky_LLRR_AllSrc_3mm.pdf</a> <a href="#">No0117_y_3mm.pdf</a> <a href="#">No0162_y_3mm.pdf</a> <a href="#">c202b_Ky_3mm.antrep</a>	Participated in 97% scans (3mm only), fringes in 47% baselines*  pols, mean SNR 99.

Notes

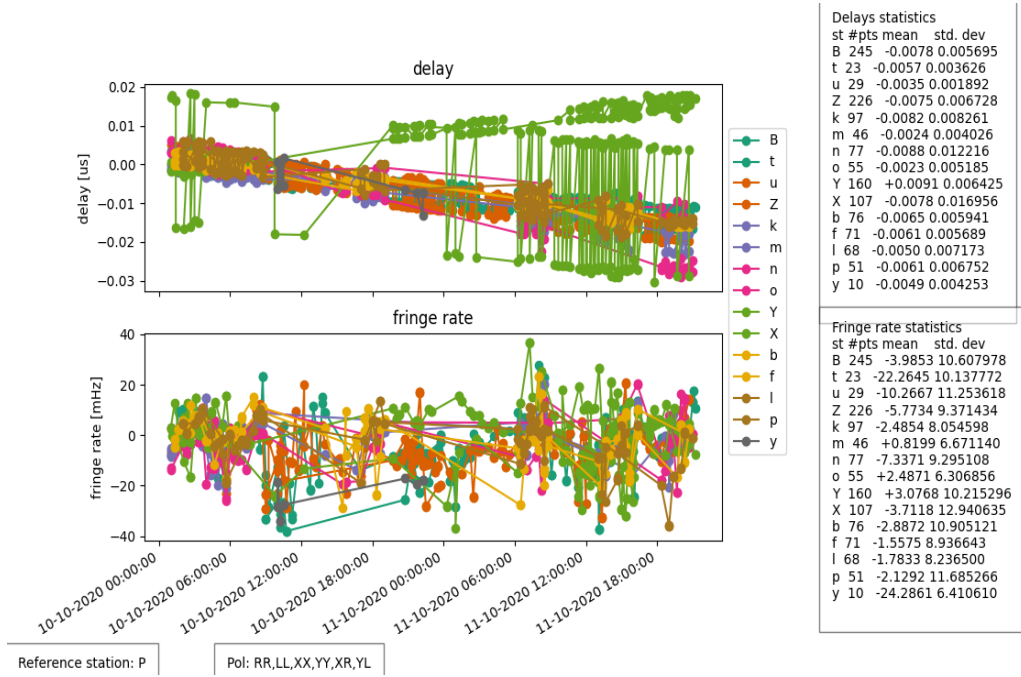
Post-Correlation checks

Residuals

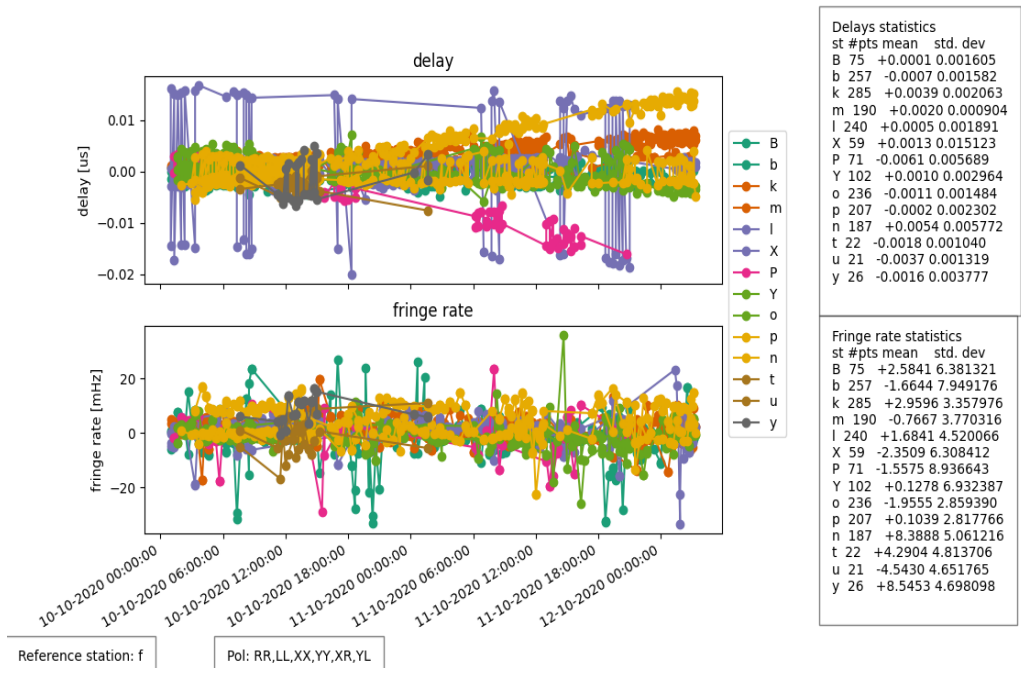
Ef as reference (3mm):



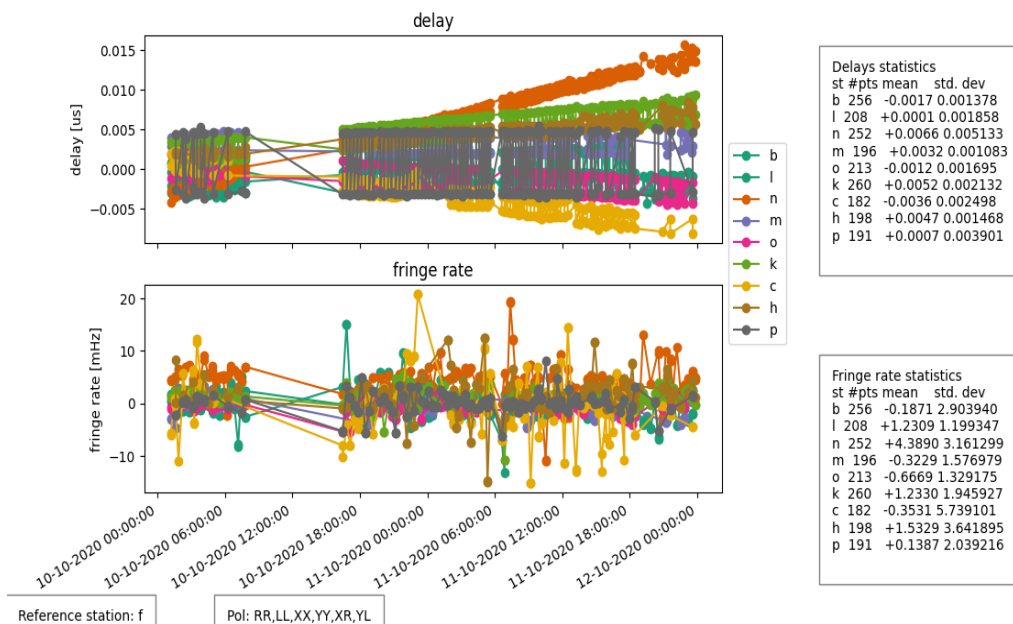
Pv as reference (3mm):



Fd as reference (3mm):



Fd as reference (7mm):



### FITS completeness (plist)

**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

**mk016c.fits (3mm):**

				FD	NL	OV	PT	BR	KP	MK	LA	EF	ON	YS	PV	MH	KY	KU	KT
c202b_001	No0001	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_002	No0002	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_003	No0004	3C345	3mm_ddc	.	.	.	.	.	.	.	.	.	.	.	.	.	o	28	o
c202b_004	No0005	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_005	No0006	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	x	o
c202b_006	No0009	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_007	No0010	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	x	o
c202b_008	No0012	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_009	No0013	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	x	o
c202b_010	No0016	3C345	3mm_ddc	.	.	.	.	.	.	.	.	.	.	.	.	.	20	o	o
c202b_011	No0017	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_012	No0018	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202b_013	No0020	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_014	No0021	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202b_015	No0023	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_016	No0024	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202b_017	No0027	3C345	3mm_ddc	.	.	.	.	.	.	.	.	.	.	.	.	.	60	40	66

c202b_018	No0028	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_019	No0029	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202b_020	No0031	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_021	No0032	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202b_022	No0034	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_023	No0035	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202b_024	No0037	3C345	3mm_ddc	.	.	.	.	.	.	.	.	.	.	.	.	60	06	53
c202b_025	No0038	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_026	No0039	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202b_027	No0041	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_028	No0042	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202b_029	No0045	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_030	No0046	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c202b_031	No0048	3C345	3mm_ddc	.	.	.	.	.	.	.	.	.	.	.	.	60	60	53
c202b_032	No0049	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_033	No0050	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c202b_034	No0052	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_035	No0053	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c202b_036	No0055	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_037	No0056	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c202b_038	No0059	3C345	3mm_ddc	.	.	.	.	.	.	.	.	.	.	.	.	93	93	86
c202b_039	No0060	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_040	No0061	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c202b_041	No0063	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_042	No0064	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c202b_043	No0066	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_044	No0067	1959+650	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c202b_046	No0070	0102+584	3mm_ddc	o	o	o	o	o	o	88	o	o	o	o	o	.	.	.
c202b_047	No0071	1959+650	3mm_ddc	o	o	o	o	o	o	x	o	o	o	o	.	o	o	o
c202b_048	No0073	BLLAC	3mm_ddc	o	o	o	o	o	o	x	o	.	.	.	.	o	o	o

**mk016c.fits (7mm):**

				FD	NL	OV	PT	BR	KP	MK	LA	HN	SC
c202b_001	No0003	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_002	No0007	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_003	No0008	BLLAC	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_004	No0011	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_005	No0014	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_006	No0015	BLLAC	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_007	No0019	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_008	No0022	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_009	No0025	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_010	No0026	BLLAC	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_011	No0030	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_012	No0033	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_013	No0036	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_014	No0040	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_015	No0043	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o



c202b_016	No0044	0102+584	7mm_ddc	o	o	o	o	o	o	o	o	o	o	o
c202b_017	No0047	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o	o
c202b_018	No0051	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o	o
c202b_019	No0054	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o	o
c202b_020	No0057	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o	.
c202b_021	No0058	0102+584	7mm_ddc	o	o	o	o	o	o	o	o	o	o	o
c202b_022	No0062	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o	.
c202b_023	No0065	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o	.
c202b_024	No0068	1959+650	7mm_ddc	o	o	o	o	o	o	o	o	o	o	.
c202b_025	No0072	1959+650	7mm_ddc	o	o	o	o	o	o	x	o	o	o	.
c202b_026	No0074	BLAC	7mm_ddc	o	o	o	o	o	o	x	o	o	o	.