

# MK017A Correlation Report

## General information

- A part of [C202B](#).
- Includes 3mm and 7mm parts
- PI: KADLER
- Targets: Neutrino 1502+106
- 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>

		<a href="#">c202b_Ku_3mm.antrep</a>	
KVN: Ky	y	<b>yes</b>	<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>

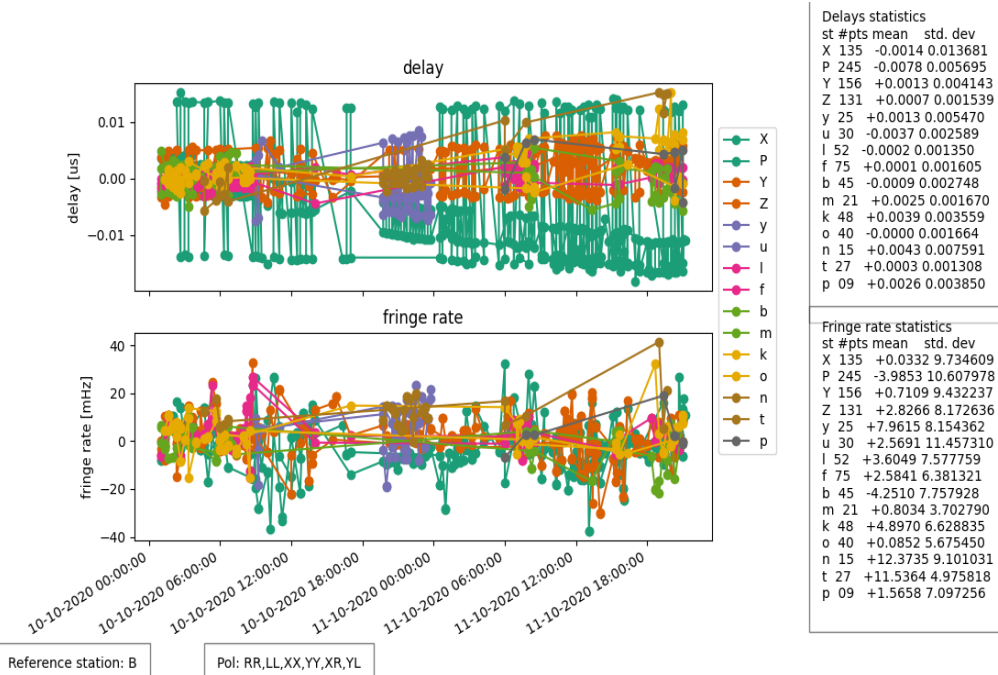
Participated in 97% scans (3mm only), fringes in 47% baselines\*||pols, mean SNR 99.

Notes

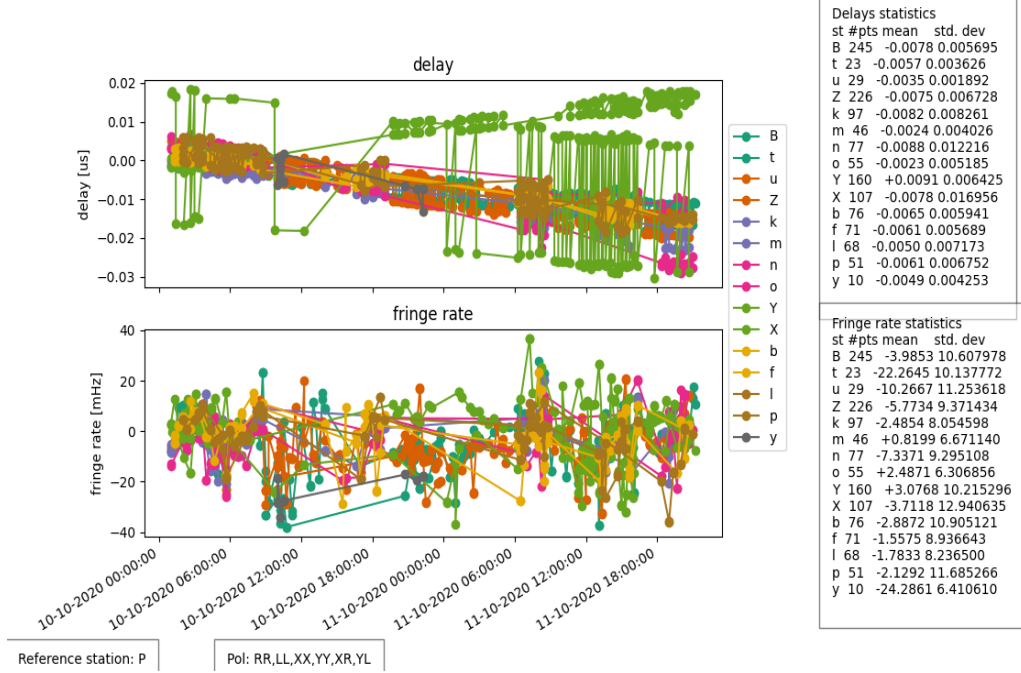
Post-Correlation checks

Residuals

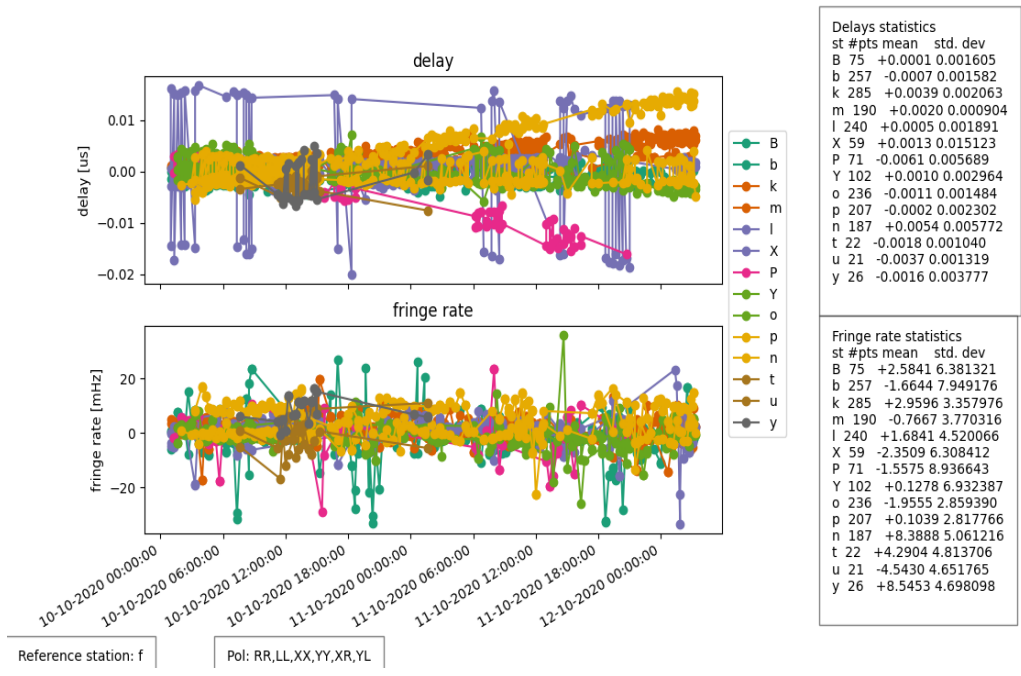
Ef as reference (3mm):



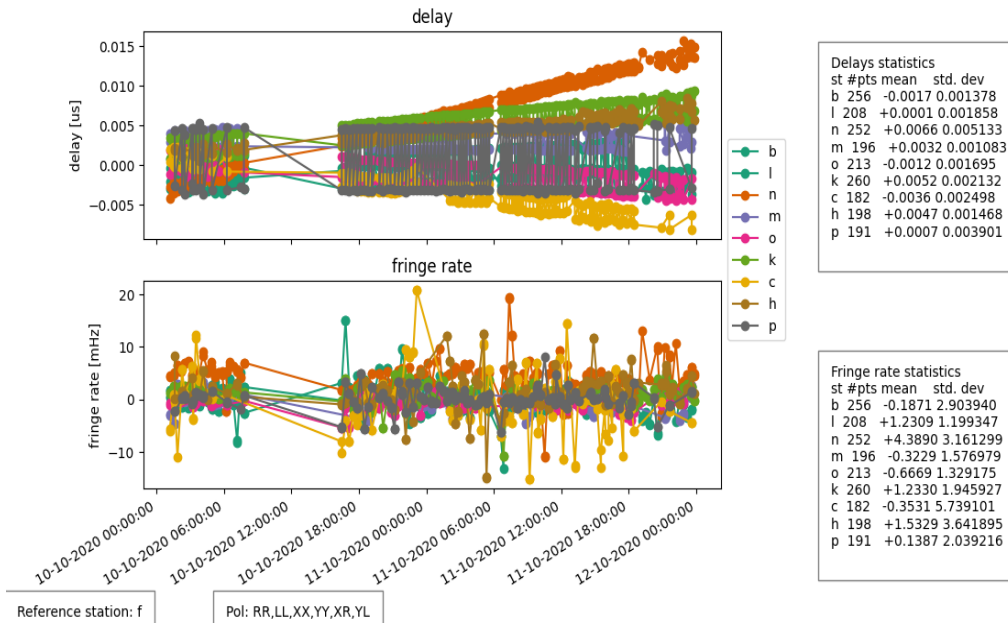
Pv as reference (3mm):



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

**mk017a.fits (3mm):**

					FD	NL	OV	PT	BR	KP	MK	LA	EF	ON	YS	PV	MH	KY	KU	KT
c202b_109	No0135	1426+428	3mm_ddc	o	o	o	o	o	o	o	.	o	o	o	o	o	o	.	.	.
c202b_110	No0137	1502+106	3mm_ddc	o	o	o	o	o	o	o	.	87	o	o	o	o	o	.	.	.
c202b_111	No0139	1502+106	3mm_ddc	o	o	o	o	o	o	o	.	x	o	o	o	o	o	.	.	.
c202b_112	No0141	3C345	3mm_ddc	o	o	o	o	o	o	o	.	o	o	o	o	o	o	.	.	.
c202b_113	No0143	1502+106	3mm_ddc	o	o	o	o	o	o	o	.	29	o	o	o	o	o	.	.	.
c202b_114	No0145	1502+106	3mm_ddc	o	o	o	o	o	o	o	.	x	o	o	o	o	.	.	.	.
c202b_115	No0147	1502+106	3mm_ddc	o	o	o	o	o	o	o	.	x	o	o	o	o	.	.	.	.
c202b_116	No0149	1502+106	3mm_ddc	o	o	o	o	o	o	o	.	x	o	o	o	o	.	.	.	.
c202b_117	No0151	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c202b_118	No0153	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	o	o	.	.	.	.	.
c202b_119	No0155	1426+428	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	.	.	.
c202b_120	No0157	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_121	No0159	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	28	o
c202b_122	No0160	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.	.
c202b_123	No0162	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o
c202b_124	No0163	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o
c202b_125	No0164	1510-089	3mm_ddc	o	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.

c202b_126	No0166	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o
c202b_127	No0167	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_128	No0169	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o
c202b_129	No0170	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_130	No0172	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o
c202b_131	No0173	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o
c202b_132	No0174	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_133	No0176	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o
c202b_134	No0177	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_135	No0179	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o
c202b_136	No0180	1510-089	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_137	No0182	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o
c202b_139	No0184	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_141	No0187	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_143	No0190	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_146	No0194	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_148	No0197	1510-089	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	.	.	.
c202b_150	No0200	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	o	o	o
c202b_152	No0203	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	o	o	o
c202b_154	No0206	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	o	o	o
c202b_156	No0209	1502+106	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	o	o	o
c202b_159	No0213	1502+106	3mm_ddc	o	.	o	o	o	o	o	o	.	.	.	.	.	o	o	o
c202b_161	No0216	3C345	3mm_ddc	o	o	o	o	o	o	o	o	.	.	.	.	.	o	o	o

**mk017a.fits (7mm):**

				FD	NL	OV	PT	BR	KP	MK	LA	HN	SC
c202b_027	No0136	1426+428	7mm_ddc	o	o	o	o	o	o	.	o	o	o
c202b_028	No0138	1502+106	7mm_ddc	o	o	o	75	o	o	.	x	o	o
c202b_029	No0140	1502+106	7mm_ddc	o	o	o	o	o	o	.	x	o	o
c202b_030	No0142	3C345	7mm_ddc	o	o	o	o	o	o	.	o	o	o
c202b_031	No0144	1502+106	7mm_ddc	o	o	o	o	o	o	.	x	o	o
c202b_032	No0146	1502+106	7mm_ddc	o	o	o	o	o	o	.	x	o	o
c202b_033	No0148	1502+106	7mm_ddc	o	o	o	o	o	o	.	x	o	o
c202b_034	No0150	1502+106	7mm_ddc	o	o	o	o	o	o	.	x	o	o
c202b_035	No0152	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_036	No0154	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_037	No0156	1426+428	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_038	No0158	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_039	No0161	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_040	No0165	1510-089	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_041	No0168	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_042	No0171	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_043	No0175	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_044	No0178	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_045	No0181	1510-089	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_046	No0185	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_047	No0188	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_048	No0191	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o



c202b_049	No0195	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	o	o
c202b_050	No0198	1510-089	7mm_ddc	o	o	o	o	o	o	o	o	.	.
c202b_051	No0201	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	.	.
c202b_052	No0204	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	.	.
c202b_053	No0207	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	.	.
c202b_054	No0210	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	.	.
c202b_055	No0214	1502+106	7mm_ddc	o	o	o	o	o	o	o	o	.	.
c202b_056	No0217	3C345	7mm_ddc	o	o	o	o	o	o	o	o	o	.