

C211A Correlation Report

General Information

- Includes 3 science projects: [MB016A](#), [MB018A](#), and [MS004](#).
- Includes 3mm and 7mm parts
- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr21/feedback_apr21.asc
- Text files with detailed antenna statistics, scroll down to get to the cumulative statistics for the whole experiment:
[c211a_3mm_ALL.antrep](#)
[c211a_7mm_ALL.antrep](#)

Current Status

Correlation finished, data **released to PI** on 25.11.2021.

The second release was prepared in February 2022, v3, fixing NOEMA site position in the 3mm part. The 7mm is unaffected and those FITS files should be taken from the first release, v1.

Found July 2023: output of the 7mm correlation contains all autocorrelation records twice. This leads to artificially low weights in AIPS task ACCOR or equivalent, and/or to lower than expected flux densities.

Suggested fix (communicated to PIs): Antenna based scaling by a factor of $2^{0.5}$ or baseline based scaling by a factor of 2.

Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	yes	<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, with bright green designating the best and brownish-red the worst.</p> <p>c211a_3mm_FRINGE_RfAnt_Ef_LLRR_AllSrc.pdf</p> <p>Examples of fourfit fringe plots can be found in (all fringe plots with baselines including the given antenna):</p> <p>No0029_B.pdf, No0245_B.pdf</p> <p>Antenna statistics:</p> <p>c211a_3mm_Ef.antrep</p> <p>Same for all antennas below unless otherwise noted.</p>	<p>Mostly clear sky</p> <p>Participated in 99% scans (3mm only), fringes in 53% baselines*||pols, mean SNR 333.</p>

Station	Code	Fringes	Plots	Comments
On	X	yes	c211a_3mm_FRINGE_RfAnt_On_LLRR_AllSrc.pdf No0029_X.pdf , No0231_X.pdf c211a_3mm_On.antrep	<p>Mostly clear sky. The 4mm receiver was used.</p> <p>Participated in 100% scans (3mm only), fringes in 51% baselines*||pols, mean SNR 211.</p>
Ys	Y	yes	c211a_3mm_FRINGE_RfAnt_Ys_LLRR_AllSrc.pdf No0007_Y.pdf c211a_3mm_Ys.antrep	<p>Took part only in a few scans due to the blind repairs, and fringes found only for one scan.</p> <p>Participated in 8% scans (3mm only), fringes in 10% baselines*||pols, mean SNR 88.</p>
Mh	Z	yes	c211a_3mm_FRINGE_RfAnt_Mh_LLRR_AllSrc.pdf No0103_Z.pdf c211a_3mm_Mh.antrep	<p>Bad weather for most of the observations (rain or wet snow, heavy clouds).</p> <p>Participated in 96% scans (3mm only), fringes in 33% baselines*||pols, mean SNR 44.</p>
Pv	P	yes	c211a_3mm_FRINGE_RfAnt_Pv_LLRR_AllSrc.pdf No0143_P.pdf c211a_3mm_Pv.antrep	<p>Bad weather.</p> <p>"Participated" in 100% scans (3mm only),</p> <p>This represents the number of recorded scans, but for more than a half of those the antenna was stowed due to the weather. See the fringe overview for the good and bad scans.</p> <p>fringes in 23% baselines*||pols, mean SNR 317.</p>
NOEMA: Nn	N	yes	c211a_3mm_FRINGE_RfAnt_Nn_LLRR_AllSrc.pdf No0156_N.pdf , No0160_N.pdf , No0245_N.pdf c211a_3mm_Nn.antrep	<p>Participated in 100% scans (3mm only), fringes in 56% baselines*||pols, mean SNR 526.</p> <p>(there was a large clock drift in the first production correlation, but it was fixed in the second release by using a better phase center)</p>
GLT: Gl	g	yes	c211a_3mm_FRINGE_RfAnt_Gl_LLRR_AllSrc.pdf	<p>Storm and high wind for part of the observations.</p>

Station	Code	Fringes	Plots	Comments
			No0182_g.pdf , No0245_g.pdf c211a_3mm_Gl.antrep	Participated in 100% scans (3mm only), fringes in 36% baselines*||pols, mean SNR 45.
GBT: Gb	G	yes	c211a_3mm_FRINGE_RfAnt_Gb_LLRR_AllSrc.pdf No0029_G.pdf , No0108_G.pdf c211a_3mm_Gb.antrep	Pointing problems , for some scans was not on source. Participated in 100% scans (3mm only), fringes in 14% baselines*||pols, mean SNR 61.
VLBA: Br	b	yes	c211a_3mm_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf No0213_b.pdf c211a_3mm_Br.antrep c211a_7mm_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf No0082_all.pdf , No0121_all.pdf c211a_7mm_Br.antrep	3mm: Participated in 99% scans, fringes in 44% baselines*||pols, mean SNR 48. 7mm: Participated in 99% scans, fringes in 84% baselines*||pols, mean SNR 179.
VLBA: Fd	f	yes	c211a_3mm_FRINGE_RfAnt_Fd_LLRR_AllSrc.pdf No0245_f.pdf c211a_3mm_Fd.antrep c211a_7mm_FRINGE_RfAnt_Fd_LLRR_AllSrc.pdf No0082_all.pdf , No0121_all.pdf c211a_7mm_Fd.antrep	Constant LCP problems. 3mm: Participated in 98% scans, fringes in 41% baselines*||pols, mean SNR 50. 7mm: Participated in 98% scans, fringes in 91% baselines*||pols, mean SNR 173.
VLBA: Kp	k	yes	c211a_3mm_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf No0155_k.pdf c211a_3mm_Kp.antrep c211a_7mm_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf No0082_all.pdf , No0121_all.pdf c211a_7mm_Kp.antrep	3mm: Participated in 100% scans, fringes in 46% baselines*||pols, mean SNR 53. 7mm: Participated in 100% scans, fringes in 94% baselines*||pols, mean SNR 221.

Station	Code	Fringes	Plots	Comments
VLBA: La	l	yes	c211a_3mm_FRINGE_RfAnt_La_LLRR_AllSrc.pdf No0237_l.pdf c211a_3mm_La.antrep c211a_7mm_FRINGE_RfAnt_La_LLRR_AllSrc.pdf No0082_all.pdf, No0121_all.pdf c211a_7mm_La.antrep	<p>3mm: Participated in 100% scans, fringes in 45% baselines*||pols, mean SNR 58.</p> <p>7mm: Participated in 100% scans, fringes in 90% baselines*||pols, mean SNR 174.</p>
VLBA: Mk	m	yes	c211a_3mm_FRINGE_RfAnt_Mk_LLRR_AllSrc.pdf No0237_m.pdf c211a_3mm_Mk.antrep c211a_7mm_FRINGE_RfAnt_Mk_LLRR_AllSrc.pdf No0082_all.pdf, No0121_all.pdf c211a_7mm_Mk.antrep	<p>3mm: Participated in 87% scans, fringes in 37% baselines*||pols, mean SNR 28.</p> <p>7mm: Participated in 90% scans, fringes in 85% baselines*||pols, mean SNR 199.</p> <p>dropped out for a few scans due to USNO observations</p>
VLBA: Nl	n	yes	c211a_3mm_FRINGE_RfAnt_Nl_LLRR_AllSrc.pdf No0155_n.pdf c211a_3mm_Nl.antrep c211a_7mm_FRINGE_RfAnt_Nl_LLRR_AllSrc.pdf No0082_all.pdf, No0121_all.pdf c211a_7mm_Nl.antrep	<p>3mm: Participated in 100% scans, fringes in 26% baselines*||pols, mean SNR 22.</p> <p>7mm: Participated in 98% scans, fringes in 89% baselines*||pols, mean SNR 138.</p>
VLBA: Ov	o	yes	c211a_3mm_FRINGE_RfAnt_Ov_LLRR_AllSrc.pdf No0152_o.pdf c211a_3mm_Ov.antrep c211a_7mm_FRINGE_RfAnt_Ov_LLRR_AllSrc.pdf No0082_all.pdf, No0121_all.pdf c211a_7mm_Ov.antrep	<p>.</p> <p>3mm: Participated in 100% scans, fringes in 43% baselines*||pols, mean SNR 44.</p> <p>7mm: Participated in 100% scans, fringes in 80% baselines*||pols, mean SNR 149.</p>

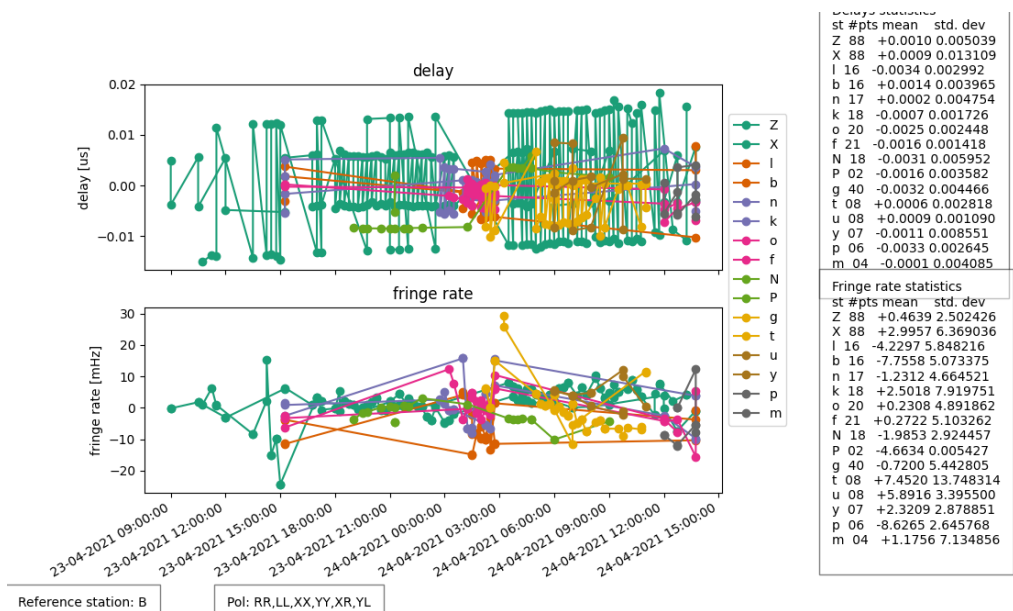
Station	Code	Fringes	Plots	Comments
VLBA: Pt	p	yes	c211a_3mm_FRINGE_RfAnt_Pt_LLRR_AllSrc.pdf No0173_p.pdf c211a_3mm_Pt.antrep c211a_7mm_FRINGE_RfAnt_Pt_LLRR_AllSrc.pdf No0082_all.pdf, No0121_all.pdf c211a_7mm_Pt.antrep	3mm: Participated in 95% scans, fringes in 34% baselines*||pols, mean SNR 30. 7mm: Participated in 92% scans, fringes in 84% baselines*||pols, mean SNR 160. dropped out for a few scans due to USNO observations
VLBA: Hn	h	yes	c211a_7mm_FRINGE_RfAnt_Hn_LLRR_AllSrc.pdf No0082_all.pdf, No0121_all.pdf c211a_7mm_Hn.antrep	Participated in 100% scans (7mm only), fringes in 75% baselines*||pols, mean SNR 89.
VLBA: Sc	c	yes	c211a_7mm_FRINGE_RfAnt_Sc_LLRR_AllSrc.pdf No0082_all.pdf, No0121_all.pdf c211a_7mm_Sc.antrep	Participated in 90% scans (7mm only), fringes in 72% baselines*||pols, mean SNR 85.
KVN: Kt	t	yes	c211a_3mm_FRINGE_RfAnt_Kt_LLRR_AllSrc.pdf No0170_t.pdf, No0213_t.pdf c211a_3mm_Kt.antrep	Some bad weather. Participated in 100% scans (3mm only), fringes in 49% baselines*||pols, mean SNR 125.
KVN: Ku	u	yes	c211a_3mm_FRINGE_RfAnt_Ku_LLRR_AllSrc.pdf No0164_u.pdf, No0212_u.pdf c211a_3mm_Ku.antrep	Some bad weather. Participated in 100% scans (3mm only), fringes in 51% baselines*||pols, mean SNR 156.
KVN: Ky	y	yes	c211a_3mm_FRINGE_RfAnt_Ky_LLRR_AllSrc.pdf No0166_y.pdf, No0212_y.pdf c211a_3mm_Ky.antrep -----	Some bad weather. Participated in 100% scans (3mm only), fringes in 51% baselines*||pols, mean SNR 154.

Notes

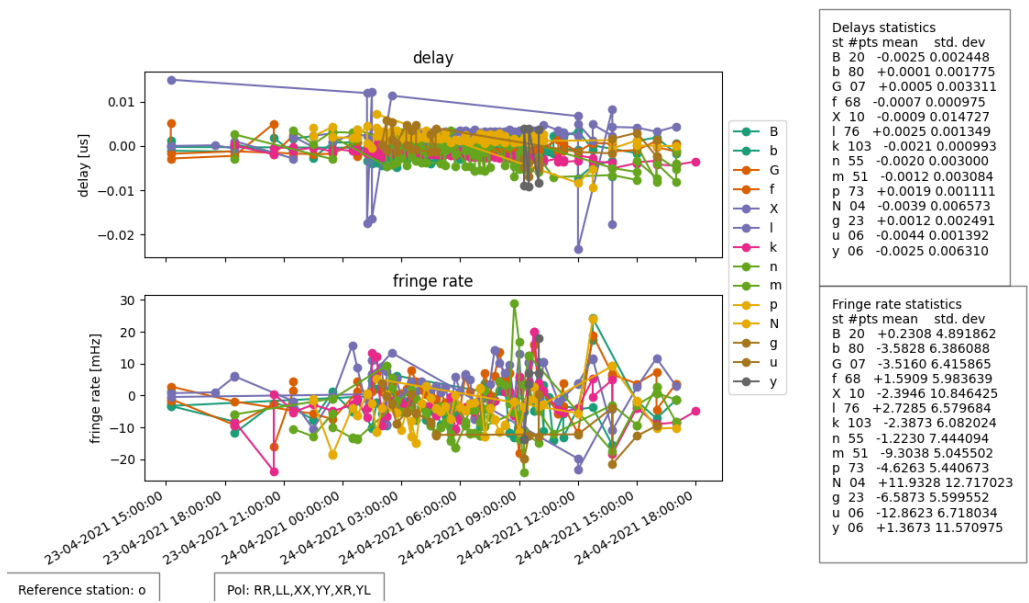
Post-Correlation checks

Residuals

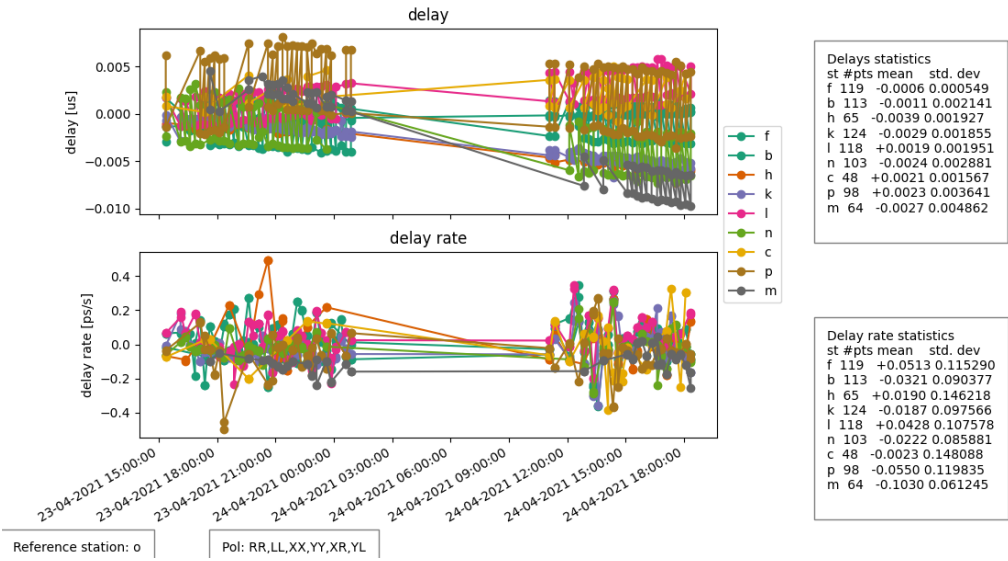
c211a 3mm, Ef as reference:



c211a 3mm, Ov as reference:



c211a 7mm, Ov as reference:



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

c211a.3mm.fits:

	EF	ON	MH	YS	GB	NL	FD	PT	LA	OV	BR	KP	PV	NN	MK	GL	KY	KU	KT
c211a_001	No0001	0106+013	86ghz	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.
c211a_002	No0002	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c211a_003	No0003	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c211a_004	No0004	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c211a_005	No0005	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c211a_006	No0006	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c211a_007	No0007	0106+013	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c211a_008	No0008	NGC1052	86ghz	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.
c211a_009	No0009	NGC1052	86ghz	o	o	o	57	.	.	.	.	.	.	.	.	.	.	.	.
c211a_010	No0010	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c211a_011	No0011	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c211a_012	No0012	NGC1052	86ghz	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c211a_013	No0013	0106+013	86ghz	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.
c211a_014	No0014	NGC1052	86ghz	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.
c211a_015	No0015	NGC1052	86ghz	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.
c211a_016	No0016	NGC1052	86ghz	o	o	90	x	.	.	.	.	.	.	.	.	.	.	.	.
c211a_017	No0017	NGC1052	86ghz	o	o	o	x	.	.	.	.	.	.	.	.	.	.	.	.
c211a_018	No0018	NGC1052	86ghz	o	o	o	x
c211a_019	No0019	NGC1052	86ghz	o	o	o	x


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c211a_120 No0171   3C273 86ghz . . . . . o o o o o o o . . o o . . .
c211a_121 No0172   BLLAC 86ghz o o o x . . . . . . . . o o . . o o o
c211a_122 No0173   3C279 86ghz . . . . . o o o o o o o . . o . . . .
c211a_123 No0174   NGC0315 86ghz o o o x . . . . . . . . o o . o o o o
c211a_124 No0175   3C273 86ghz . . . . . o o o o o o o . . o . . . .
c211a_125 No0176   NGC0315 86ghz o o o x . . . . . . . . o o . o o o o
c211a_126 No0177   3C273 86ghz . . . . . o o o o o o o . . o . . . .
c211a_127 No0178   NGC0315 86ghz o o o x . . . . . . . . o o . o o o o
c211a_128 No0179   3C273 86ghz . . . . . o o o o o o o . . o . . . .
c211a_129 No0180   NGC0315 86ghz o o o x . . . . . . . . o o . o o o o
c211a_130 No0181   3C279 86ghz . . . . . o o o o o o o . . o . . . .
c211a_131 No0182   3C84 86ghz o o o . . . . . . . . . o . o o o o
c211a_132 No0183   3C273 86ghz . . . . . o o o o o o o . . o . . . .
c211a_133 No0184   NGC0315 86ghz o o o x . . . . . . . . o o . o o o o
c211a_134 No0185   3C273 86ghz . . . . . o o o o o o o . . o . . . .
c211a_135 No0186   NGC0315 86ghz o o o x . . . . . . . . o o . o o o o
c211a_136 No0187   3C273 86ghz . . . . . o o o o o o o . . o . . . .
c211a_137 No0188   NGC0315 86ghz o o o x . . . . . . . . o o . o o o o
c211a_138 No0189   3C279 86ghz . . . . . o o o o o o o . . o . . . .
c211a_139 No0190   3C84 86ghz o o o x . . . . . . . . . o o . o o o o
c211a_140 No0191   3C273 86ghz . . . . . o o o o o o o . . o . . . .
c211a_141 No0192   NGC0315 86ghz o o o x . . . . . . . . . o o . o o o o
c211a_142 No0193   3C273 86ghz . . . . . o o o o o o o . . 14 . . .
c211a_143 No0194   NGC0315 86ghz o o o x . . . . . . . . . o o . o o o o
c211a_144 No0195   3C273 86ghz . . . . . o o o o o o o . . x . . . .
c211a_145 No0196   NGC0315 86ghz o o o x . . . . . . . . . o o . o o o o
c211a_146 No0197   3C279 86ghz . . . . . o o o o o o o . . x . . . .
c211a_147 No0198   3C84 86ghz o o o x . . . . . . . . . o o . o o o o
c211a_148 No0199   3C273 86ghz . . . . . o o o o o o o . . x . . . .
c211a_149 No0200   NGC0315 86ghz 33 o o x . . . . . . . . . o o . o o o o
c211a_150 No0201   3C273 86ghz . . . . . o o o o o o o . . x . . . .
c211a_151 No0202   NGC0315 86ghz o o o x . . . . . . . . . o o . o o o o
c211a_152 No0203   3C273 86ghz . . . . . o o o o o o o . . o . . . .
c211a_153 No0204   NGC0315 86ghz o o o x . . . . . . . . . o o . o o o o
c211a_154 No0205   3C279 86ghz . . . . . o o o o o o o . . o . . . .
c211a_155 No0206   3C84 86ghz o o o x . . . . . . . . . o o . o o o o
c211a_156 No0207   3C273 86ghz . . . . . o o o o o o o . . o . o o o
c211a_157 No0208   NGC0315 86ghz o o o x . . . . . . . . 61 o . o . . .
c211a_158 No0209   3C273 86ghz . . . . . o o o o o o o . . o . o o o
c211a_159 No0210   NGC0315 86ghz o o o x . . . . . . . . . o o . . . .
c211a_160 No0211   3C273 86ghz . . . . . . o o o o o o . . o . . . .
c211a_161 No0212   3C84 86ghz o o o x . . . . . . . . . o o . o o o o
c211a_162 No0213   3C279 86ghz . . . . . . o o o o o o . . o . o o o
c211a_163 No0214   NGC0315 86ghz o o o x . . . . . . . . . o o . . . .
c211a_164 No0215   3C273 86ghz . . . . . . o o o o o o . . o . o o o
c211a_165 No0216   NGC0315 86ghz o o o x . . . . . . . . . o o . . . .
c211a_166 No0217   3C273 86ghz . . . . . . o o o o o o . . o . o o o
c211a_167 No0218   NGC0315 86ghz o o o x . . . . . . . . . o o . . . .
c211a_168 No0219   3C273 86ghz . . . . . . . o . o o o . . o . o o o
c211a_169 No0220   NGC0315 86ghz o o o x . o . . . . . . . o o . o . . .

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c211a_170	No0221	3C84	86ghz	o	o	o	x	o	o	.	o	o	o	o
c211a_171	No0222	BLLAC	86ghz	o	o	o	o	o	o
c211a_172	No0224	NGC0315	86ghz	o	o	o	x	.	o	.	.	.	.	.	.	o	o	.	o	.	.	.
c211a_173	No0225	BLLAC	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	.	.	.	.	.	.	.
c211a_174	No0227	NGC0315	86ghz	o	o	o	x	.	o	o	o	o	.	.	.	o	o	.	o	.	.	.
c211a_175	No0229	NGC0315	86ghz	o	o	o	x	.	o	o	o	o	.	o	.	o	o	.	o	.	.	.
c211a_176	No0231	BLLAC	86ghz	o	o	o	x	.	o	o	o	o	o	o	o	o	o	.	o	.	.	.
c211a_177	No0233	NGC0315	86ghz	o	o	o	x	.	o	o	o	o	o	o	o	o	o	.	o	.	.	.
c211a_178	No0235	NGC0315	86ghz	o	o	o	x	.	o	o	o	o	o	o	o	o	o	.	o	.	.	.
c211a_179	No0237	BLLAC	86ghz	o	o	o	x	.	o	o	o	o	o	o	o	o	o	o	94	.	.	.
c211a_180	No0239	NGC0315	86ghz	o	o	o	x	.	o	o	o	o	o	o	o	o	o	.	o	.	.	.
c211a_181	No0241	NGC0315	86ghz	o	o	o	x	.	o	o	o	o	o	o	o	o	o	.	o	.	.	.
c211a_182	No0243	NGC0315	86ghz	o	o	o	x	.	o	o	o	o	o	o	o	o	o	.	o	.	.	.
c211a_183	No0245	BLLAC	86ghz	o	o	o	x	.	o	o	o	o	o	o	o	o	o	o	.	.	.	.
c211a_184	No0247	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o	.	.	.
c211a_185	No0249	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o	.	.	.
c211a_186	No0251	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o	.	.	.
c211a_187	No0253	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.	o	.	.	.
c211a_188	No0255	BLLAC	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	o	.	.	.
c211a_189	No0257	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	o	.	.	.
c211a_190	No0259	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	o	.	.	.
c211a_191	No0261	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	o	.	.	.
c211a_192	No0263	BLLAC	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	o	.	.	.
c211a_193	No0265	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	o	.	.	.
c211a_194	No0267	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	o	.	.	.
c211a_195	No0269	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	o	.	.	.
c211a_196	No0271	BLLAC	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	.	.	.	.
c211a_197	No0273	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	.	.	.	.
c211a_198	No0275	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	.	.	.	.
c211a_199	No0277	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	.	.	.	.
c211a_200	No0279	BLLAC	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	.	.	.	.
c211a_201	No0281	NGC0315	86ghz	.	.	.	.	.	o	o	o	o	o	o	o	.	.	o	.	.	.	.

c211a.7mm.fits:

				NL	FD	PT	LA	HN	SC	OV	BR	KP	MK
c211a_01	No0028	NGC1052	43ghz	o	o	o	o	o	o	.	.	.	.
c211a_02	No0030	0234+285	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_03	No0033	NGC1052	43ghz	o	o	o	o	o	o	.	.	o	.
c211a_04	No0035	NGC1052	43ghz	o	o	o	o	o	o	.	.	o	.
c211a_05	No0037	NGC1052	43ghz	o	o	o	o	o	o	o	.	o	.
c211a_06	No0040	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_07	No0042	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_08	No0045	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_09	No0049	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_10	No0052	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_11	No0056	0106+013	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_12	No0059	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_13	No0062	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	o

c211a_14	No0065	NGC1052	43ghz	o	o	25	o	o	25	o	o	o	41
c211a_15	No0069	0420-014	43ghz	o	o	x	o	o	x	o	o	o	.
c211a_16	No0072	NGC1052	43ghz	o	o	x	o	o	x	o	o	o	x
c211a_17	No0075	NGC1052	43ghz	o	o	x	o	o	x	o	o	o	x
c211a_18	No0078	NGC1052	43ghz	o	o	x	o	o	x	o	o	o	x
c211a_19	No0082	0106+013	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_20	No0085	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_21	No0089	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_22	No0092	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_23	No0096	0106+013	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_24	No0099	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_25	No0102	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_26	No0105	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_27	No0109	0420-014	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_28	No0112	NGC1052	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_29	No0115	NGC1052	43ghz	o	o	o	o	.	.	o	o	o	o
c211a_30	No0118	NGC1052	43ghz	o	o	o	o	.	.	o	o	o	o
c211a_31	No0121	0420-014	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_32	No0124	NGC1052	43ghz	o	o	o	o	.	.	o	o	o	o
c211a_33	No0127	NGC1052	43ghz	o	o	o	o	.	.	o	o	o	o
c211a_34	No0130	NGC1052	43ghz	o	o	o	o	.	.	o	o	o	o
c211a_35	No0133	0420-014	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_36	No0136	NGC1052	43ghz	.	o	o	o	.	.	o	o	o	o
c211a_37	No0139	NGC1052	43ghz	.	o	o	o	.	.	o	o	o	o
c211a_38	No0142	NGC1052	43ghz	.	.	o	o	.	.	o	o	o	o
c211a_39	No0145	0420-014	43ghz	.	.	o	o	.	.	o	o	o	o
c211a_40	No0148	0420-014	43ghz	.	o	o	o	.	.	o	o	o	o
c211a_41	No0223	BLLAC	43ghz	.	o	o	o	o	o	o	o	o	.
c211a_42	No0226	BLLAC	43ghz	.	o	o	o	o	o	o	o	o	.
c211a_43	No0228	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_44	No0230	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_45	No0232	BLLAC	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_46	No0234	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_47	No0236	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_48	No0238	BLLAC	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_49	No0240	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_50	No0242	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_51	No0244	NGC0315	43ghz	08	o	o	o	o	o	o	o	o	.
c211a_52	No0246	BLLAC	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_53	No0248	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_54	No0250	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_55	No0252	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_56	No0254	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	.
c211a_57	No0256	BLLAC	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_58	No0258	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_59	No0260	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_60	No0262	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_61	No0264	BLLAC	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_62	No0266	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_63	No0268	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	o

c211a_64	No0270	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_65	No0272	BLLAC	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_66	No0274	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_67	No0276	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_68	No0278	NGC0315	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_69	No0280	BLLAC	43ghz	o	o	o	o	o	o	o	o	o	o
c211a_70	No0282	NGC0315	43ghz	o	o	25	o	o	25	o	o	o	41