

C211B Correlation Report

General Information

- Includes 2 science projects: [MK017B1+B2](#) and [POLCAL1](#).
- 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:
[c211b_3mm_ALL.antrep](#)
[c211b_7mm_ALL.antrep](#)

Current Status

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

The second release, v2, was prepared in February 2022 and fixes 3mm, the 7mm remains unaffected.

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>c211b_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>c211b_3mm_No0160_all.pdf</p> <p>Antenna statistics:</p> <p>c211b_3mm_Ef.antrep</p> <p>Same for all antennas below unless otherwise noted.</p>	<p>Mostly clear sky</p> <p>Participated in 100% scans (3mm only), fringes in 54% baselines*||pols, mean SNR 309.</p>
On	X	yes	<p>c211b_3mm_FRINGE_RfAnt_On_LLRR_AllSrc.pdf</p> <p>c211b_3mm_No0160_all.pdf</p> <p>c211b_3mm_On.antrep</p>	<p>Mostly clear sky.</p> <p>The 4mm receiver was used.</p> <p>Participated in 100% scans (3mm only), fringes in 55% baselines*||pols, mean SNR 186.</p>

Station	Code	Fringes	Plots	Comments
Ys	Y	no		missed the whole experiment due to the blind repairs
Mh	Z	yes	c211b_3mm_FRINGE_RfAnt_Mh_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf c211b_3mm_Mh.antrep	Bad weather for most of the observations (rain or wet snow, heavy clouds). Participated in 94% scans (3mm only), fringes in 34% baselines*||pols, mean SNR 47.
Pv	P	yes	c211b_3mm_FRINGE_RfAnt_Pv_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf c211b_3mm_Pv.antrep	Bad weather. "Participated" in 62% scans (3mm only). This represents the number of recorded scans, but for part of those the antenna was stowed due to the weather. See the fringe overview for the good and bad scans. fringes in 21% baselines*||pols, mean SNR 68.
NOEMA: Nn	N	yes	c211b_3mm_FRINGE_RfAnt_Nn_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf , c211b_3mm_No0177_N.pdf c211b_3mm_Nn.antrep	Participated in 100% scans (3mm only), fringes in 72% baselines*||pols, mean SNR 306. (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)
GLT: Gl	g	yes	c211b_3mm_FRINGE_RfAnt_Gl_LLRR_AllSrc.pdf c211b_3mm_No0177_g.pdf c211b_3mm_Gl.antrep	Storm and high wind for part of the observations. Participated in 100% scans (3mm only), fringes in 26% baselines*||pols, mean SNR 26.
VLBA: Br	b	yes	c211b_3mm_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf , c211b_3mm_No0254_all.pdf c211b_3mm_Br.antrep c211b_7mm_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf c211b_7mm_No0072_all.pdf	3mm: Participated in 99% scans, fringes in 21% baselines*||pols, mean SNR 20. 7mm: Participated in 99% scans, fringes in 95%

Station	Code	Fringes	Plots	Comments
			c211b_7mm_Br.antrep	baselines*||pols, mean SNR 129.
VLBA: Fd	f	yes	c211b_3mm_FRINGE_RfAnt_Fd_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf , c211b_3mm_No0254_all.pdf c211b_3mm_Fd.antrep c211b_7mm_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf c211b_7mm_No0072_all.pdf c211b_7mm_Fd.antrep	3mm: Participated in 98% scans, fringes in 34% baselines*||pols, mean SNR 23. 7mm: Participated in 98% scans, fringes in 97% baselines*||pols, mean SNR 176.
VLBA: Kp	k	yes	c211b_3mm_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf , c211b_3mm_No0254_all.pdf c211b_3mm_Kp.antrep c211b_7mm_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf c211b_7mm_No0072_all.pdf c211b_7mm_Kp.antrep	3mm: Participated in 100% scans, fringes in 39% baselines*||pols, mean SNR 22. 7mm: Participated in 100% scans, fringes in 98% baselines*||pols, mean SNR 205.
VLBA: La	l	yes	c211b_3mm_FRINGE_RfAnt_La_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf , c211b_3mm_No0254_all.pdf c211b_3mm_La.antrep c211b_7mm_FRINGE_RfAnt_La_LLRR_AllSrc.pdf c211b_7mm_No0072_all.pdf c211b_7mm_La.antrep	3mm: Participated in 100% scans, fringes in 20% baselines*||pols, mean SNR 15. 7mm: Participated in 100% scans, fringes in 95% baselines*||pols, mean SNR 150.
VLBA: Mk	m	yes	c211b_3mm_FRINGE_RfAnt_Mk_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf , c211b_3mm_No0254_all.pdf , c211b_3mm_No0122_m.pdf c211b_3mm_Mk.antrep c211b_7mm_FRINGE_RfAnt_Mk_LLRR_AllSrc.pdf c211b_7mm_No0072_all.pdf	3mm: Participated in 88% scans, fringes in 22% baselines*||pols, mean SNR 17. 7mm: Participated in 92% scans, fringes in 97% baselines*||pols, mean SNR 114.

Station	Code	Fringes	Plots	Comments
			c211b_7mm_Mk.antrep	dropped out for several scans due to USNO observations
VLBA: Nl	n	yes	c211b_3mm_FRINGE_RfAnt_Nl_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf , c211b_3mm_No0254_all.pdf , c211b_3mm_No0166_n.pdf c211b_3mm_Nl.antrep c211b_7mm_FRINGE_RfAnt_Nl_LLRR_AllSrc.pdf c211b_7mm_No0072_all.pdf c211b_7mm_Nl.antrep	3mm: Participated in 100% scans, fringes in 20% baselines*||pols, mean SNR 15. 7mm: Participated in 100% scans, fringes in 95% baselines*||pols, mean SNR 128.
VLBA: Ov	o	yes	c211b_3mm_FRINGE_RfAnt_Ov_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf , c211b_3mm_No0254_all.pdf , c211b_3mm_No0101_o.pdf c211b_3mm_Ov.antrep c211b_7mm_FRINGE_RfAnt_Ov_LLRR_AllSrc.pdf c211b_7mm_No0072_all.pdf c211b_7mm_Ov.antrep	. 3mm: Participated in 100% scans, fringes in 26% baselines*||pols, mean SNR 25. 7mm: Participated in 100% scans, fringes in 96% baselines*||pols, mean SNR 135.
VLBA: Pt	p	yes	c211b_3mm_FRINGE_RfAnt_Pt_LLRR_AllSrc.pdf c211b_3mm_No0160_all.pdf , c211b_3mm_No0254_all.pdf c211b_3mm_Pt.antrep c211b_7mm_FRINGE_RfAnt_Pt_LLRR_AllSrc.pdf c211b_7mm_No0072_all.pdf c211b_7mm_Pt.antrep	3mm: Participated in 93% scans, fringes in 19% baselines*||pols, mean SNR 17. 7mm: Participated in 94% scans, fringes in 95% baselines*||pols, mean SNR 133. dropped out for several scans due to USNO observations
VLBA: Hn	h		c211b_7mm_FRINGE_RfAnt_Hn_LLRR_AllSrc.pdf c211b_7mm_No0072_all.pdf c211b_7mm_Hn.antrep	Participated in 100% scans (7mm only), fringes in 86% baselines*||pols, mean SNR 66

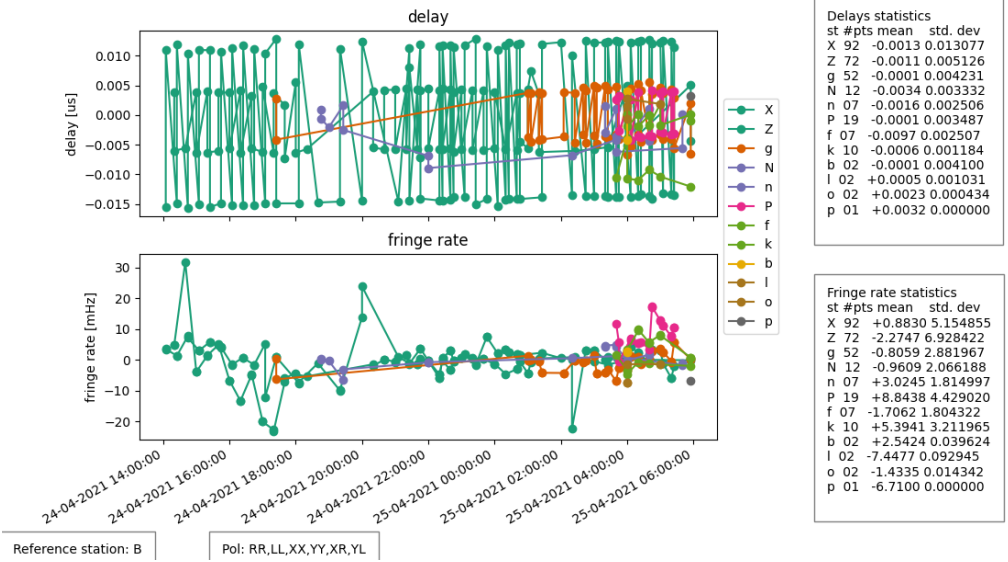
Station	Code	Fringes	Plots	Comments
VLBA: Sc	c		c211b 7mm FRINGE RfAnt Sc LLRR AllSrc.pdf c211b 7mm No0072_all.pdf c211b 7mm Sc.antrep	Participated in 92% scans (7mm only), fringes in 91% baselines*||pols, mean SNR 50

Notes

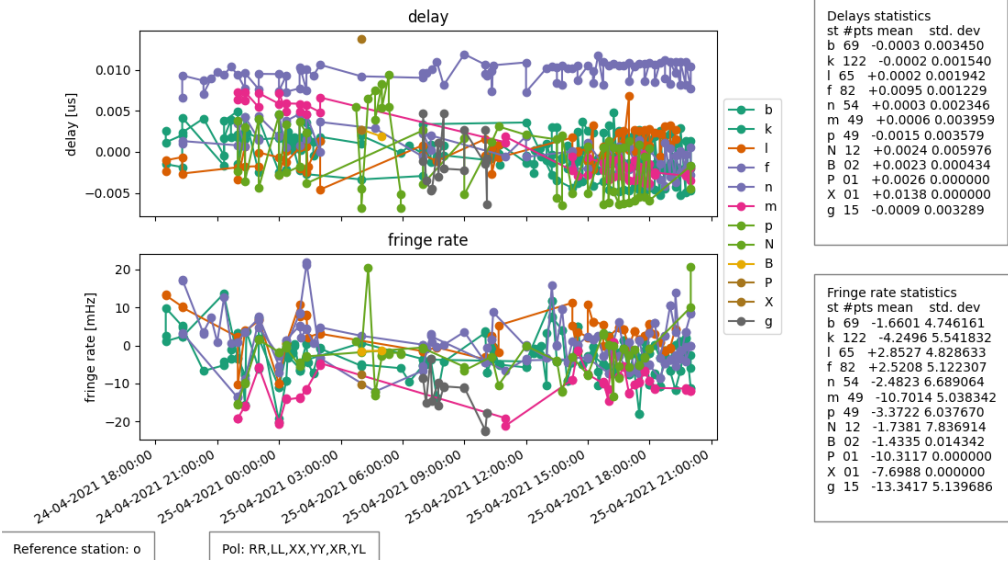
Post-Correlation checks

Residuals

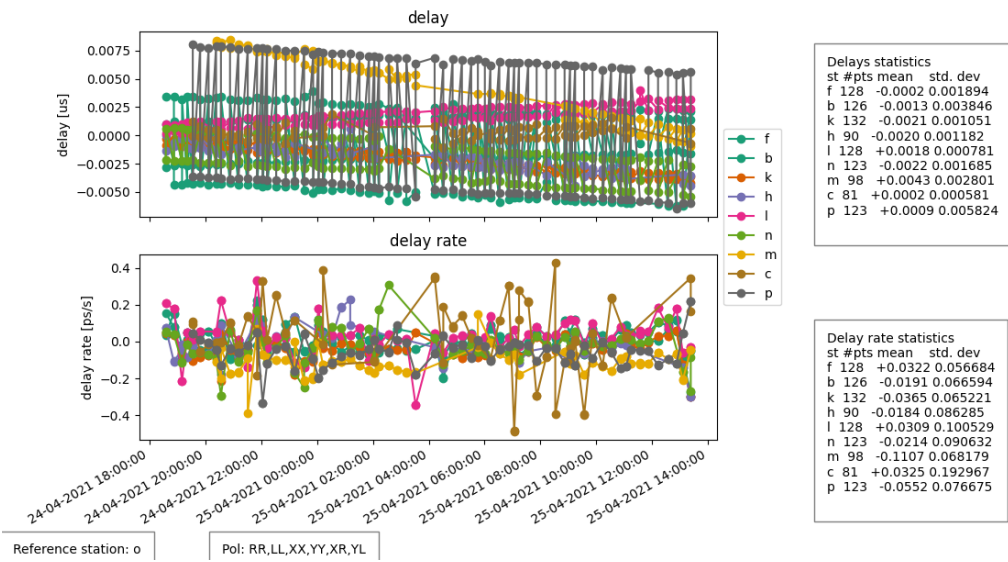
c211b 3mm, Ef as reference:



c211b 3mm, Ov as reference:



c211b 7mm, Ov as reference:



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

c211b.3mm.fits:

EF ON YS PV NN MH GL FD NL OV PT BR KP LA MK
c211b_001 No0001 0420-014 86ghz o o x x o o

c211b_052	No0064	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_053	No0065	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_054	No0066	0420-014	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_055	No0067	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_056	No0069	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_057	No0070	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_058	No0071	0420-014	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_059	No0073	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_060	No0075	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_061	No0076	0420-014	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_062	No0077	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_063	No0079	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_064	No0080	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_065	No0081	0723-008	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_066	No0082	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_067	No0084	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_068	No0085	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_069	No0086	0420-014	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_070	No0087	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_071	No0089	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_072	No0090	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_073	No0091	0420-014	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_074	No0092	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_075	No0094	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_076	No0095	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_077	No0096	0723-008	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_078	No0097	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_079	No0099	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_080	No0100	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_081	No0101	0420-014	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_082	No0103	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_083	No0105	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_084	No0106	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_085	No0107	0420-014	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_086	No0108	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_087	No0110	3C279	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_088	No0111	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_089	No0112	0723-008	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_090	No0113	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_091	No0115	3C273	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_092	No0116	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_093	No0117	0420-014	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_094	No0118	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_095	No0120	3C273	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_096	No0121	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_097	No0122	0420-014	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_098	No0123	0506+056	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c211b_099	No0125	3C273	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_100	No0126	1502+106	86ghz	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.	.
c211b_101	No0127	0723-008	86ghz	.	.	.	.	.	.	o	o	o	o	o	o	o	o	o	o

c211b_38	No0174	1502+106	43ghz	o	o	o	o	o	o	o	o	o	.
c211b_39	No0176	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_40	No0178	3C345	43ghz	o	o	o	o	o	o	o	o	o	.
c211b_41	No0180	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_42	No0183	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_43	No0186	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_44	No0188	3C345	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_45	No0190	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_46	No0193	1502+106	43ghz	o	o	o	o	o	o	o	o	o	x
c211b_47	No0196	1502+106	43ghz	o	o	o	o	o	o	o	o	o	x
c211b_48	No0199	1502+106	43ghz	o	o	o	o	o	o	o	o	o	x
c211b_49	No0202	1502+106	43ghz	o	o	o	o	o	o	o	o	o	x
c211b_50	No0205	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_51	No0207	3C345	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_52	No0209	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_53	No0212	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_54	No0215	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_55	No0218	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_56	No0221	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_57	No0224	1502+106	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_58	No0226	3C345	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_59	No0228	1502+106	43ghz	o	o	o	o	o	o	o	.	.	o
c211b_60	No0231	1502+106	43ghz	o	o	o	o	o	o	o	.	.	o
c211b_61	No0234	1502+106	43ghz	o	o	o	o	o	o	o	.	.	o
c211b_62	No0237	1502+106	43ghz	o	o	o	o	o	o	o	.	.	o
c211b_63	No0240	1502+106	43ghz	o	o	o	o	o	o	o	.	.	o
c211b_64	No0243	1502+106	43ghz	o	o	o	o	o	o	o	.	.	o
c211b_65	No0245	3C345	43ghz	o	o	o	o	o	o	o	o	o	o
c211b_66	No0247	3C454.3	43ghz	o	o	o	o	o	o	o	o	o	o