

ML009 Correlation Report

General information

- A part of [C202A](#).
- Includes only 3mm part
- PI: LEE
- Targets: 1928+738 (4C73.18)
- 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
- Text files with detailed antenna statistics, scroll down to get to the cumulative statistics for the whole experiment:

[c202a_ALL_3mm.antrep](#)

Current Status

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

Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	yes	<p>Note: all plots and statistics are done for the whole of c202a</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>c202a_FRINGE_RfAnt_Ef_LLRR_AllSrc_3mm.pdf</p> <p>Examples of fourfit fringe plots can be found in (all fringe plots with baselines including the given antenna):</p> <p>No0189_B_3mm.pdf</p> <p>Antenna statistics:</p> <p>c202a_Ef_3mm.antrep</p> <p>Same for all antennas below unless otherwise noted.</p>	<p>Participated in 100% scans, fringes in 16% baselines*||pols, mean SNR 48.</p> <p>bad weather</p>
On	X	yes	<p>c202a_FRINGE_RfAnt_On_LLRR_AllSrc_3mm.pdf</p>	<p>Participated in 100% scans, fringes in 23% baselines*||pols, mean SNR 36.</p>

			No0131_X_3mm.pdf c202a_On_3mm.antrep	
Ys	Y	no	c202a_FRINGE_RfAnt_Ys_LLRR_AllSrc_3mm.pdf c202a_Ys_3mm.antrep	No fringes in c202a, due to some problem with clocks: fringes found in the fringe test with one clock setting, and in c202b shifted by more than 0.5us. None of these settings produced fringes in c202a and fringe search with a wide window also yielded no result.
Mh	Z	yes	c202a_FRINGE_RfAnt_Mh_LLRR_AllSrc_3mm.pdf No0087_Z_3mm.pdf c202a_Mh_3mm.antrep	Participated in 100% scans, fringes in 10% baselines*||pols, mean SNR 25. bad weather
Pv	P	yes	c202a_FRINGE_RfAnt_Pv_LLRR_AllSrc_3mm.pdf No0100_P_3mm.pdf c202a_Pv_3mm.antrep	Participated in 100% scans, fringes in 35% baselines*||pols, mean SNR 52.
VLBA: Br	b	yes	c202a_FRINGE_RfAnt_Br_LLRR_AllSrc_3mm.pdf No0128_b_3mm.pdf c202a_Br_3mm.antrep	3mm: participated in 100% scans, fringes in 23% baselines*||pols, mean SNR 23.
VLBA: Fd	f	yes	c202a_FRINGE_RfAnt_Fd_LLRR_AllSrc_3mm.pdf No0150_f_3mm.pdf c202a_Fd_3mm.antrep	3mm: participated in 100% scans, fringes in 30% baselines*||pols, mean SNR 33.
VLBA: Kp	k	yes	c202a_FRINGE_RfAnt_Kp_LLRR_AllSrc_3mm.pdf No0150_k_3mm.pdf c202a_Kp_3mm.antrep	3mm: participated in 100% scans, fringes in 24% baselines*||pols, mean SNR 24.
VLBA: La	l	yes	c202a_FRINGE_RfAnt_La_LLRR_AllSrc_3mm.pdf No0131_l_3mm.pdf c202a_La_3mm.antrep	3mm: participated in 94% scans, fringes in 30% baselines*||pols, mean SNR 30. dropped out for several scans due to USNO observations
VLBA: Mk	m	yes	c202a_FRINGE_RfAnt_Mk_LLRR_AllSrc_3mm.pdf	3mm: participated in 97% scans, fringes in 21% baselines*||pols, mean SNR 19.

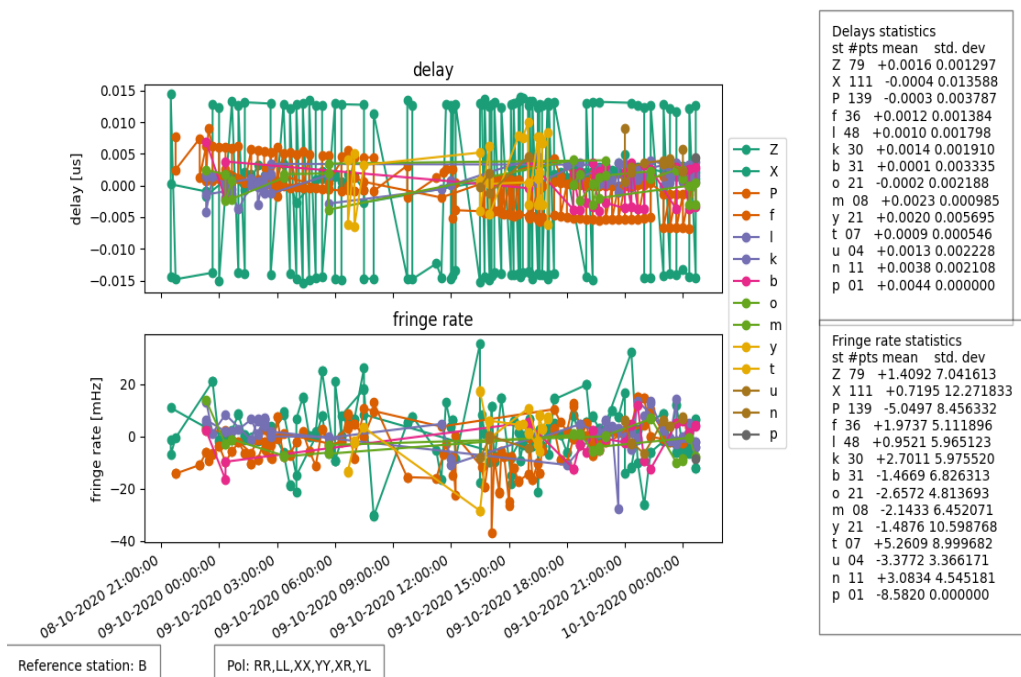
			No0150_m_3mm.pdf c202a_Mk_3mm.antrep	<p>dropped out for several scans due to USNO observations</p>
VLBA: Nl	n	yes	c202a_FRINGE_RfAnt_Nl_LLRR_AllSrc_3mm.pdf No0122_n_3mm.pdf No0219_n_3mm.pdf c202a_Nl_3mm.antrep	<p>3mm: participated in 100% scans, fringes in 11% baselines*||pols, mean SNR 15.</p>
VLBA: Ov	o	yes	c202a_FRINGE_RfAnt_Ov_LLRR_AllSrc_3mm.pdf No0150_o_3mm.pdf No0228_o_3mm.pdf c202a_Ov_3mm.antrep	<p>3mm: participated in 100% scans, fringes in 27% baselines*||pols, mean SNR 29.</p>
VLBA: Pt	p	yes	c202a_FRINGE_RfAnt_Pt_LLRR_AllSrc_3mm.pdf No0128_p_3mm.pdf c202a_Pt_3mm.antrep	<p>3mm: participated in 95% scans, fringes in 13% baselines*||pols, mean SNR 19.</p> <p>lots of technical problems, see logs</p>
KVN: Kt	t	yes	c202a_FRINGE_RfAnt_Kt_LLRR_AllSrc_3mm.pdf No0110_t_3mm.pdf c202a_Kt_3mm.antrep	<p>Participated in 99% scans, fringes in 29% baselines*||pols, mean SNR 54.</p>
KVN: Ku	u	yes	c202a_FRINGE_RfAnt_Ku_LLRR_AllSrc_3mm.pdf No0113_u_3mm.pdf c202a_Ku_3mm.antrep	<p>Participated in 86% scans, fringes in 25% baselines*||pols, mean SNR 52.</p>
KVN: Ky	y	yes	c202a_FRINGE_RfAnt_Ky_LLRR_AllSrc_3mm.pdf No0103_y_3mm.pdf No0140_y_3mm.pdf c202a_Ky_3mm.antrep <p>-----</p>	<p>Participated in 100% scans, fringes in 36% baselines*||pols, mean SNR 49.</p>

Notes

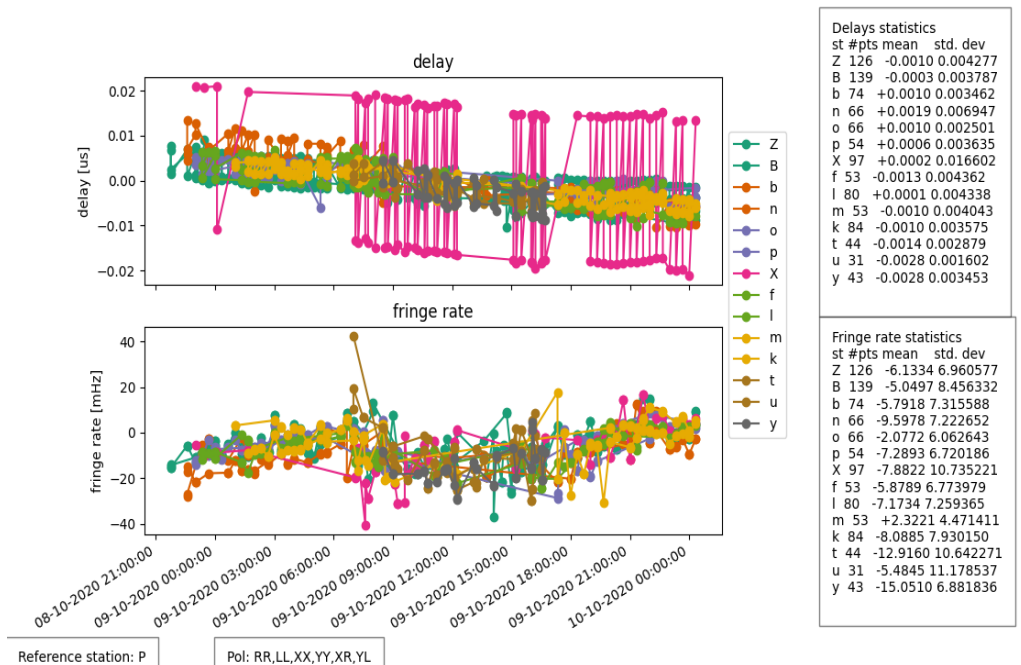
Post-Correlation checks

Residuals

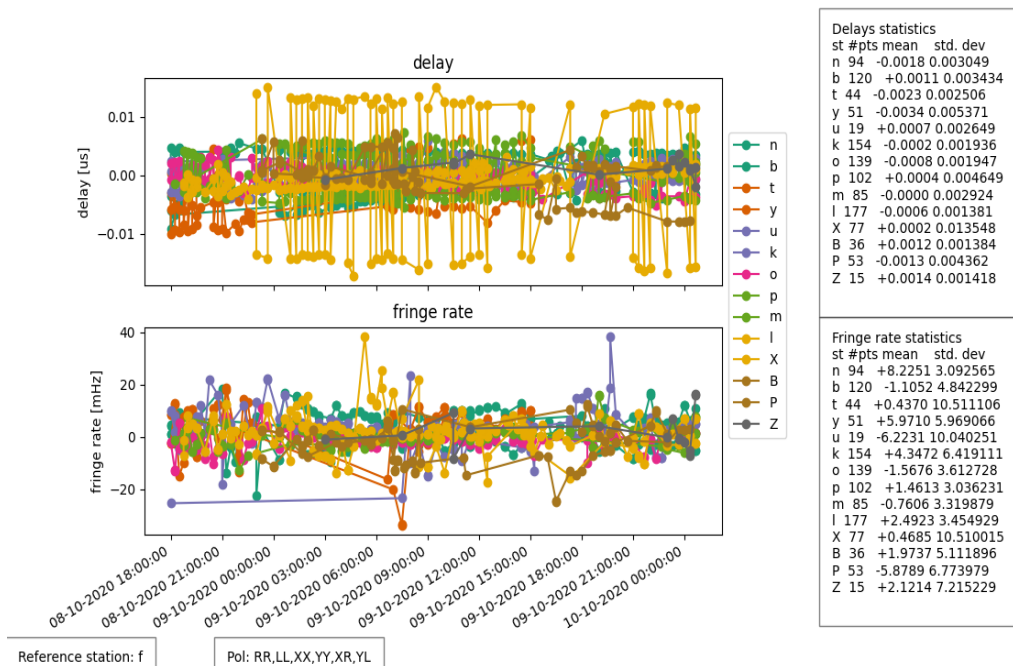
Ef as reference (3mm):



Pv as reference (3mm):



Fd as reference (3mm):



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

ml009.fits:

				FD	NL	OV	PT	BR	KP	MK	LA	KY	KU	KT	EF	ON	YS	PV	MH
c202a_075	No0100	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_076	No0101	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_077	No0102	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_078	No0103	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_079	No0104	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	x	o	o	o	o	o	o	o
c202a_080	No0105	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_081	No0106	BLLAC	3mm_ddc	o	o	o	o	o	o	o	o	o	o	.	.	.	.	.	.
c202a_082	No0107	0102+584	3mm_ddc	.	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o
c202a_083	No0108	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	x	o	o	o	o	o	o
c202a_084	No0109	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	x	o	o	o	o	o	o
c202a_085	No0110	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_086	No0111	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_087	No0112	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_088	No0113	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_089	No0114	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_090	No0115	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_091	No0116	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o

c202a_092	No0117	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_093	No0118	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	76	o	o	o	o	o	o	o
c202a_094	No0119	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_095	No0120	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_096	No0121	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_097	No0122	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	o		
c202a_098	No0123	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_099	No0124	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_100	No0125	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	o		
c202a_101	No0126	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_102	No0127	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_103	No0128	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	o		
c202a_104	No0129	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_105	No0130	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_106	No0131	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	o		
c202a_107	No0132	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_108	No0133	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_109	No0134	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	o		
c202a_110	No0135	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_111	No0136	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_112	No0137	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	o		
c202a_113	No0138	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
c202a_114	No0139	1928+738	3mm_ddc	o	o	o	o	o	o	o	o	o	95	o	o	o	o	o	o	o
c202a_115	No0140	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	o		
c202a_116	No0141	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_117	No0142	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_118	No0143	0102+584	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	o	.	.	o		
c202a_119	No0144	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_120	No0145	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_121	No0146	NRAO150	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	.	o	.	.	o	
c202a_123	No0148	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_124	No0149	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_125	No0150	NRAO150	3mm_ddc	o	o	o	o	o	o	o	o	o	o	o	.	o	.	.	o	
c202a_126	No0151	3C371	3mm_ddc	.	.	.	.	.	.	.	.	.	.	.	o	.	o	o	.	
c202a_127	No0152	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_128	No0153	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_129	No0154	3C371	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_130	No0155	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_131	No0156	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_132	No0157	3C371	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_133	No0158	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_134	No0159	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_135	No0160	3C371	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_136	No0161	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_137	No0162	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_138	No0163	3C371	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o
c202a_139	No0164	1928+738	3mm_ddc	o	o	o	o	o	o	.	o	o	o	o	o	o	o	o	o	o