C172B Correlation Report

General information

- Session info: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/
- Station feedback: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/sep17/feedback_sep17.asc
- C172B consists of only one subproject: MV001A.
- Initial correlation done with all stations, second correlation (fix Effelsberg incorrect channel order) done without Mh due to local cluster data loss and the station having deleted its own copy of the data. Final version is a combination of these two correlations, with non-Ef baselines taken from the initial correlation and Ef baselines -- from the later one with Mh missing. Thus there are no Ef-Mh baselines in the final correlation product.

Fringes

Station	Code	Fringes	Plots	Comments
Ef	B	yes	Fringe overview of all baselines including Ef in LL (left for each baseline) and RR (right for each baseline). Legend: white - scheduled, but no data, blue - no fringe, red-green - fringes of different quality. c172b_FRINGE_RfAnt_Ef_LLRR_AllSrc.pdf Examples of fourfit fringe plots: EfGb, all pols: c172b_No0004_3C279_BG_LL.pdf, c172b_No0004_3C279_BG_LR.pdf, c172b_No0004_3C279_BG_RL.pdf, c172b_No0004_3C279_BG_RR.pdf EfOn, all pols: c172b_No0021_1502+106_BX_LL.pdf, c172b_No0021_1502+106_BX_LR.pdf, c172b_No0021_1502+106_BX_RL.pdf, c172b_No0021_1502+106_BX_RR.pdf	see general info about the missing Ef-Mh baseline. Effelsberg recorded with DBBC (Ef) and RDBE (Eb), but only Ef was correlated. Weather: cloudy
On	X	yes	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_On_LLRR_AllSrc.pdf Examples of fourfit fringe plots: EfOn, all pols: c172b_No0021_1502+106_BX_LL.pdf, c172b_No0021_1502+106_BX_LR.pdf, c172b_No0021_1502+106_BX_RL.pdf, c172b_No0021_1502+106_BX_RR.pdf GbOn, all except LR (no LR fringe): c172b_No0034_1502+106_GX_LL.pdf c172b_No0034_1502+106_GX_RL.pdf, c172b_No0034_1502+106_GX_RR.pdf	See station feedback for detailed comments.
Ys	Y	yes	Fringe overview (see Ef for explanations):	As usual, Ys observed LCP only, but it was also recorded as fake RCP, that's

Station	Code	Fringes	Plots	Comments
			c172b_FRINGE_RfAnt_Ys_LLRR_AllSrc.pdf Examples of fourfit fringe plots: PvYs, all pols: c172b_No0021_1502+106_PY_LL.pdf, c172b_No0021_1502+106_PY_LR.pdf, c172b_No0021_1502+106_PY_RL.pdf, c172b_No0021_1502+106_PY_RR.pdf GbYs, LL and LR only: c172b_No0034_1502+106_GY_LL.pdf, c172b_No0034_1502+106_GY_LR.pdf	why there are common Ys "right" to other antenna's left fringes.
Mh	Z	**yes**	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_Mh_LLRR_AllSrc.pdf Examples of fourfit fringe plots: MhOn, all pols: c172b_No0012_1502+106_ZX_LL.pdf, c172b_No0012_1502+106_ZX_LR.pdf, c172b_No0012_1502+106_ZX_RL.pdf, c172b_No0012_1502+106_ZX_RR.pdf MhPv, all pols: c172b_No0034_1502+106_ZP_LL.pdf, c172b_No0034_1502+106_ZP_LR.pdf, c172b_No0034_1502+106_ZP_RL.pdf, c172b_No0034_1502+106_ZP_RR.pdf	
Pv	P	**yes**	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_Pv_LLRR_AllSrc.pdf Examples of fourfit fringe plots: MhPv, all pols: c172b_No0012_1502+106_ZP_LL.pdf, c172b_No0012_1502+106_ZP_LR.pdf, c172b_No0012_1502+106_ZP_RL.pdf, c172b_No0012_1502+106_ZP_RR.pdf BrPv, || pols: c172b_No0034_1502+106_bP_LL.pdf, c172b_No0034_1502+106_bP_RR.pdf OvPv, || pols: c172b_No0034_1502+106_oP_LL.pdf, c172b_No0034_1502+106_oP_RR.pdf	Joined the schedule late.
Gb	G	**yes**	Fringe overview (see Ef for explanations):	See station feedback for detailed comments.

Station	Code	Fringes	Plots	Comments
			c172b_FRINGE_RfAnt_Gb_LLRR_AllSrc.pdf Examples of fourfit fringe plots: GbOn, all pols: c172b_No0004_3C279_GX_LL.pdf, c172b_No0004_3C279_GX_LR.pdf, c172b_No0004_3C279_GX_RL.pdf, c172b_No0004_3C279_GX_RR.pdf GbLa, all pols: c172b_No0046_1502+106_Gl_LL.pdf, c172b_No0046_1502+106_Gl_LR.pdf, c172b_No0046_1502+106_Gl_RL.pdf, c172b_No0046_1502+106_Gl_RR.pdf	
Br	b	**yes**	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf Examples of fourfit fringe plots: BrLa, || pols: c172b_No0034_1502+106_bk_LL.pdf, c172b_No0034_1502+106_bk_RR.pdf BrKp, || pols: c172b_No0052_1502+106_bl_LL.pdf, c172b_No0052_1502+106_bl_RR.pdf	
Fd	f	**yes**	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_Fd_LLRR_AllSrc.pdf Examples of fourfit fringe plots: FdKp, || pols: c172b_No0007_OJ287_fk_LL.pdf, c172b_No0007_OJ287_fk_RR.pdf FdKp, || pols, different scan and source: c172b_No0034_1502+106_fk_LL.pdf, c172b_No0034_1502+106_fk_RR.pdf	Communications and power problems, but data for this experiment are mostly unaffected.
Kp	k	**yes**	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf Examples of fourfit fringe plots: GbKp, || pols: c172b_No0034_1502+106_Gk_LL.pdf, c172b_No0034_1502+106_Gk_RR.pdf	

Station	Code	Fringes	Plots	Comments
			KpOn, || pols: c172b_No0034_1502+106_kX_LL.pdf, c172b_No0034_1502+106_kX_RR.pdf	
La	l	yes	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_La_LLRR_AllSrc.pdf Examples of fourfit fringe plots: FdLa, || pols: c172b_No0007_OJ287_fl_LL.pdf, c172b_No0007_OJ287_fl_RR.pdf GbLa, all pols: c172b_No0052_1502+106_Gl_LL.pdf, c172b_No0052_1502+106_Gl_LR.pdf, c172b_No0052_1502+106_Gl_RL.pdf, c172b_No0052_1502+106_Gl_RR.pdf	
Mk	m	yes	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_Mk_LLRR_AllSrc.pdf Examples of fourfit fringe plots: MkOv, all pols: c172b_No0010_OJ287_mo_LL.pdf, c172b_No0010_OJ287_mo_LR.pdf, c172b_No0010_OJ287_mo_RL.pdf, c172b_No0010_OJ287_mo_RR.pdf GbMk, all pols: c172b_No0046_1502+106_Gm_LL.pdf, c172b_No0046_1502+106_Gm_LR.pdf, c172b_No0046_1502+106_Gm_RL.pdf, c172b_No0046_1502+106_Gm_RR.pdf	
Nl	n	yes	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_Nl_LLRR_AllSrc.pdf Examples of fourfit fringe plots: FdNl, || pols: c172b_No0046_1502+106_fn_LL.pdf, c172b_No0046_1502+106_fn_RR.pdf GbNl, all pols: c172b_No0046_1502+106_Gn_LL.pdf, c172b_No0046_1502+106_Gn_LR.pdf, c172b_No0046_1502+106_Gn_RL.pdf, c172b_No0046_1502+106_Gn_RR.pdf	

Station	Code	Fringes	Plots	Comments
Ov	o	**yes**	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_Ov_LLRR_AllSrc.pdf Examples of fourfit fringe plots: KpOv, || pols: c172b_No0034_1502+106_ko_LL.pdf, c172b_No0034_1502+106_ko_RR.pdf GbOv, || pols: c172b_No0052_1502+106_Go_LL.pdf, c172b_No0052_1502+106_Go_RR.pdf	
Pt	p	**yes**	Fringe overview (see Ef for explanations): c172b_FRINGE_RfAnt_Pt_LLRR_AllSrc.pdf Examples of fourfit fringe plots: MkPt, all pols: c172b_No0010_OJ287_mp_LL.pdf, c172b_No0010_OJ287_mp_LR.pdf, c172b_No0010_OJ287_mp_RL.pdf, c172b_No0010_OJ287_mp_RR.pdf KpPt, || pols: c172b_No0034_1502+106_kp_LL.pdf, c172b_No0034_1502+106_kp_RR.pdf	

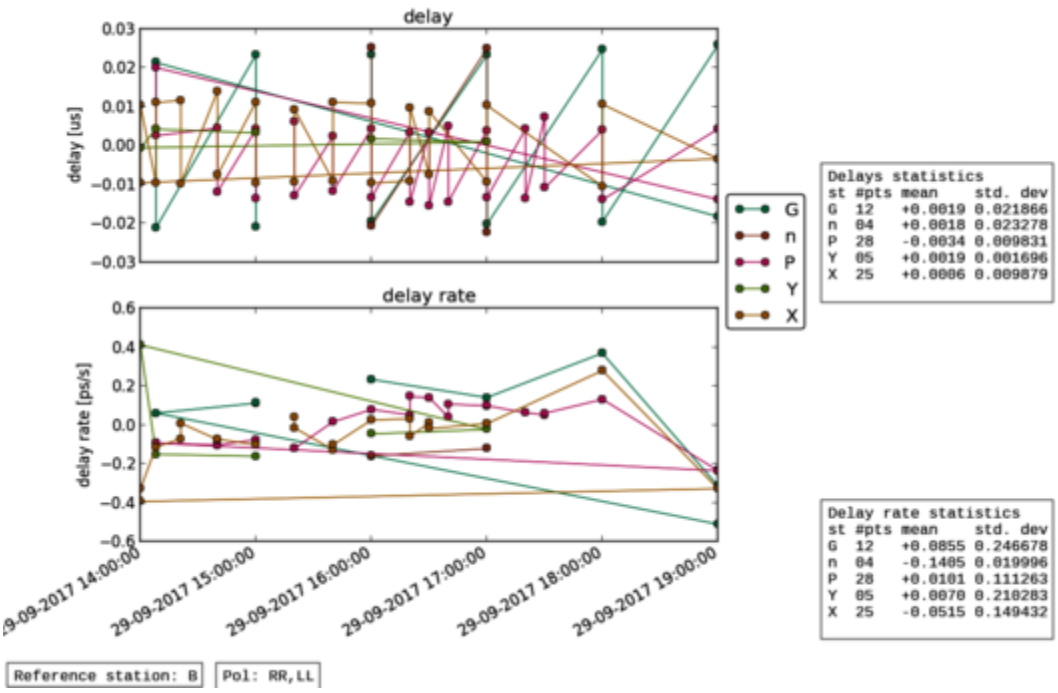
Notes

- PV joined the schedule late (during the second 3C279 scan)

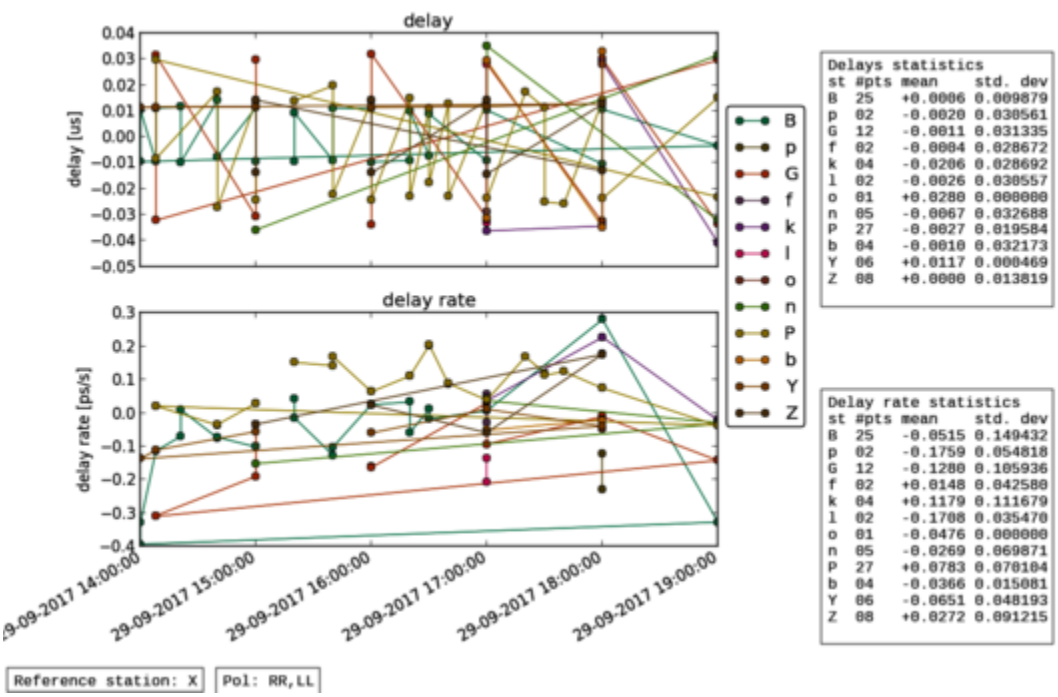
Post-Correlation checks

Residuals

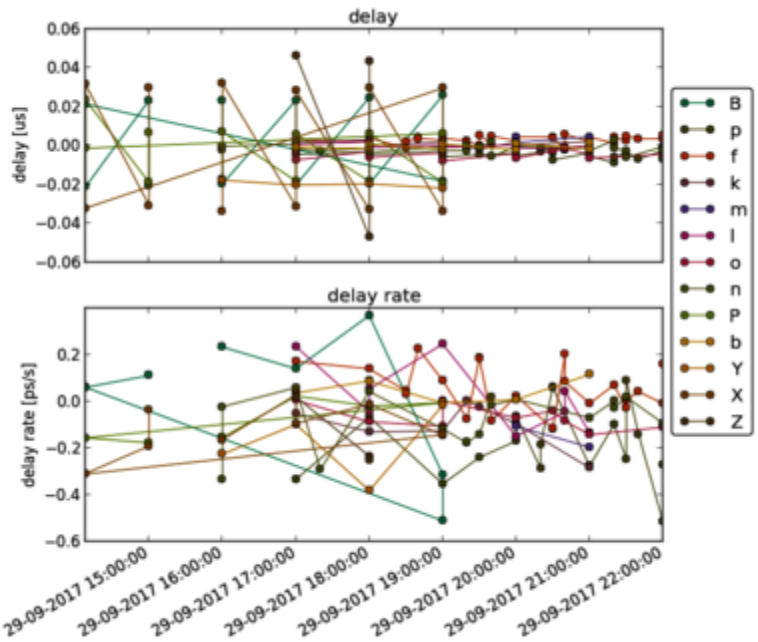
Reference B (Ef), LL and RR



Reference X (On), LL and RR



Reference G (Gb), LL and RR



Delays statistics

st	#pts	mean	std. dev
B	12	+0.0019	0.021866
p	22	-0.0046	0.001773
f	32	+0.0030	0.001874
k	12	+0.0008	0.001291
m	04	+0.0031	0.001348
l	12	-0.0004	0.001052
o	13	-0.0047	0.001892
n	23	-0.0016	0.002033
P	12	-0.0031	0.013967
b	10	-0.0005	0.001377
Y	04	-0.0199	0.001459
X	12	-0.0011	0.031335
Z	03	+0.0144	0.043365

Delay rate statistics

st	#pts	mean	std. dev
B	12	+0.0855	0.246678
p	22	-0.1878	0.152250
f	32	+0.0588	0.101091
k	12	-0.1069	0.095876
m	04	-0.1580	0.044444
l	12	+0.0350	0.160499
o	13	-0.0697	0.049824
n	23	-0.0629	0.104684
P	12	-0.0801	0.082136
b	10	+0.0498	0.046782
Y	04	-0.1796	0.137974
X	12	-0.1280	0.105936
Z	03	-0.1548	0.125078

Reference station: G Pol: RR,LL

FITS completeness (pclist)

				EF	ON	YS	PV	GB	FD	OV	PT	BR	KP	MK	LA	NL	MH
c172b_01	No0001	3C279	3mm_RDBE	o	o	o	o	.	.	.	.	.	.	.	.	.	.
c172b_02	No0003	OJ287	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.
c172b_03	No0004	3C279	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	.	.
c172b_04	No0006	1413+135	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	o	o
c172b_05	No0007	OJ287	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.
c172b_06	No0009	1413+135	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	o	o
c172b_07	No0010	OJ287	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.
c172b_08	No0012	1502+106	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	o	o
c172b_09	No0013	OJ287	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.
c172b_10	No0015	1413+135	3mm_RDBE	o	o	o	o	o	o	.	o	.	.	.	o	o	o
c172b_11	No0016	OJ287	3mm_RDBE	.	.	.	.	.	.	o	.	o	o	o	.	.	.
c172b_12	No0018	1413+135	3mm_RDBE	o	o	o	o	o	o	.	o	.	.	.	o	o	o
c172b_13	No0019	OJ287	3mm_RDBE	.	.	.	.	.	.	o	.	o	o	o	.	.	.
c172b_14	No0021	1502+106	3mm_RDBE	o	o	o	o	o	.	.	.	.	.	.	.	o	o
c172b_15	No0022	OJ287	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	.	.
c172b_16	No0024	1413+135	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c172b_17	No0025	1413+135	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c172b_18	No0026	1413+135	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c172b_19	No0028	1502+106	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c172b_20	No0030	1413+135	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c172b_21	No0031	1413+135	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c172b_22	No0032	1413+135	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c172b_23	No0034	1502+106	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	o
c172b_24	No0036	1413+135	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	.
c172b_25	No0037	1413+135	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.
c172b_26	No0038	1413+135	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o	o	o	.

c172b_27	No0040	1502+106	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.	o	o	.
c172b_28	No0042	1413+135	3mm_RDBE	.	.	o	o	o	o	o	o	o	o	o	o	o	.
c172b_29	No0043	1413+135	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_30	No0044	1413+135	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_31	No0046	1502+106	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_32	No0048	1413+135	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_33	No0049	1413+135	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_34	No0050	1413+135	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_35	No0052	1502+106	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_36	No0054	1413+135	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_37	No0055	1413+135	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_38	No0056	1413+135	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_39	No0058	1413+135	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.
c172b_40	No0060	3C345	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	o	.