

C201E / MK013 Correlation Report

General information

- Consists of only one science project: **MK013**
- PI: Kim
- Target: M87
- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr20/feedback_apr20.asc
- Text files with detailed antenna statistics, scroll down to get to the cumulative statistics for the whole experiment:
[c201e_ALL.antrep](#)
- Due to the coronavirus pandemia restrictions and various technical problems only Ef, On, Ys, Mh, VLBA and KVN participated in this session, despite more antennas originally scheduled. In addition to this, because of an unfortunate server failure KVN lost all session data before it could have been transferred.

Current status

Correlation finished, data **released to PI** on 14.08.2020.

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, blue - no fringe, green -- good fringe, red -- false fringe found by fourfit (detected by very large SBD).</p> <p>c201e_SBD_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>No0046_B.pdf</p> <p>Antenna statistics:</p> <p>c201e_Ef.antrep</p> <p>Same for all antennas below unless otherwise noted.</p>	
On	X	yes	<p>c201e_SBD_RfAnt_On_LLRR_AllSrc.pdf</p> <p>No0046_X.pdf</p> <p>c201e_On.antrep</p>	

Ys	Y	yes	c201e_SBD_RfAnt_Ys_LLRR_AllSrc.pdf No0046_Y.pdf c201e_Ys.antrep	
Mh	Z	yes	c201e_SBD_RfAnt_Mh_LLRR_AllSrc.pdf No0046_Z.pdf c201e_Mh.antrep	
VLBA: Br	b	yes	c201e_SBD_RfAnt_Br_LLRR_AllSrc.pdf No0089_Br.pdf c201e_Br.antrep	
VLBA: Fd	f	yes	c201e_SBD_RfAnt_Fd_LLRR_AllSrc.pdf No0046_f.pdf c201e_Fd.antrep	
VLBA: Kp	k	yes	c201e_SBD_RfAnt_Kp_LLRR_AllSrc.pdf No0051_k.pdf c201e_Kp.antrep	
VLBA: La	l	yes	c201e_SBD_RfAnt_La_LLRR_AllSrc.pdf No0049_l.pdf c201e_La.antrep	
VLBA: Mk	m	yes	c201e_SBD_RfAnt_Mk_LLRR_AllSrc.pdf No0073_m.pdf c201e_Mk.antrep	Taken out for a part of scan No0103 and scan No0104 because of USNO observing.
VLBA: Nl	n	yes	c201e_SBD_RfAnt_Nl_LLRR_AllSrc.pdf No0073_n.pdf c201e_Nl.antrep	

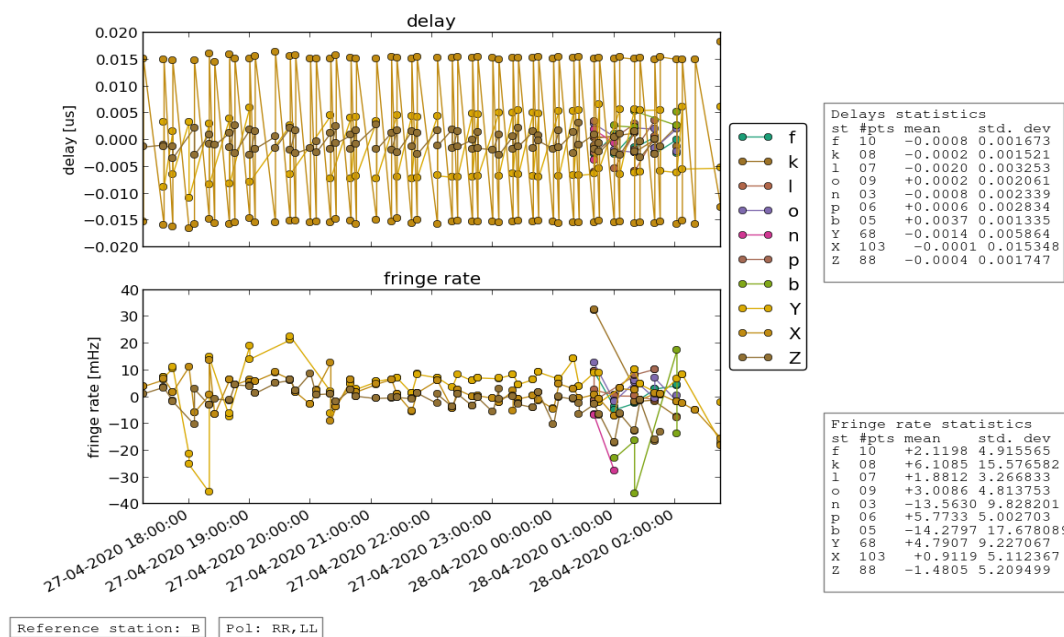
VLBA: Ov	o	yes	c201e_SBD_RfAnt_Ov_LLRR_AllSrc.pdf No0056_o.pdf c201e_Ov.antrep	.
VLBA: Pt	p	yes	c201e_SBD_RfAnt_Pt_LLRR_AllSrc.pdf No0046_p.pdf c201e_Pt.antrep	Taken out for a part of scan No0103 and scan No0104 because of USNO observing.

Notes

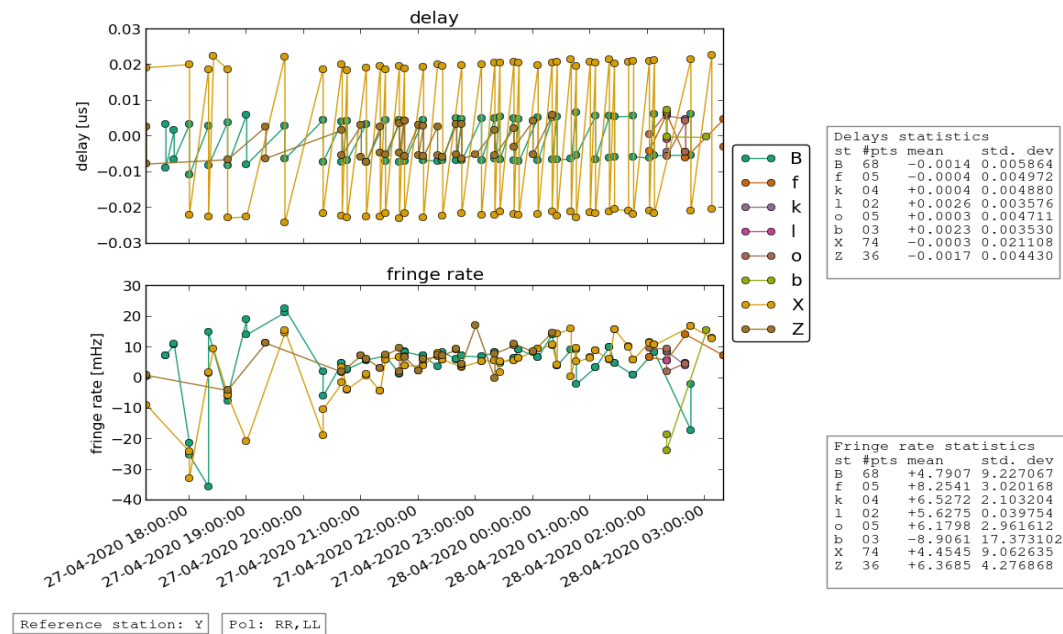
Post-Correlation checks

Residuals

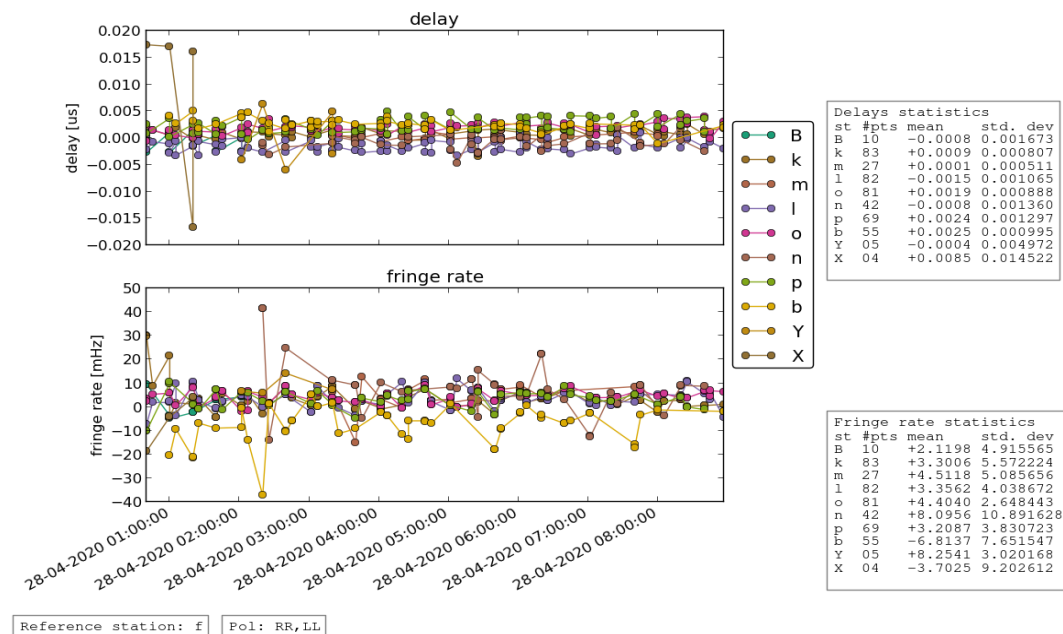
Ef as reference:



Ys as reference:



Fd 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

c201e.fits:

				EF	ON	YS	MH	NL	FD	PT	LA	KP	OV	BR	MK
c201e_01	No0001	OJ287	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_02	No0003	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_03	No0004	M87	3mm_ddc	23	28	o	o	.	.	.	.	.	.	.	.
c201e_04	No0005	M87	3mm_ddc	85	85	o	o	.	.	.	.	.	.	.	.
c201e_05	No0006	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_06	No0007	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_07	No0008	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_08	No0009	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_09	No0010	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_10	No0011	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_11	No0012	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_12	No0013	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_13	No0014	3C279	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_14	No0015	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_15	No0016	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_16	No0017	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_17	No0018	3C279	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_18	No0019	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_19	No0020	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_20	No0021	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_21	No0022	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_22	No0023	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_23	No0024	3C279	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_24	No0025	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_25	No0026	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_26	No0027	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_27	No0028	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_28	No0029	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_29	No0030	3C279	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_30	No0031	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_31	No0032	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_32	No0033	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_33	No0034	3C273	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_34	No0035	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_35	No0036	3C279	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.
c201e_36	No0037	M87	3mm_ddc	o	o	o	o	.	.	.	.	.	.	.	.

c201e_87	No0095	M87	3mm_ddc	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c201e_88	No0096	3C273	3mm_ddc	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c201e_89	No0097	M87	3mm_ddc	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c201e_90	No0098	3C279	3mm_ddc	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c201e_91	No0099	M87	3mm_ddc	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c201e_92	No0100	3C273	3mm_ddc	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c201e_93	No0101	M87	3mm_ddc	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c201e_94	No0102	3C273	3mm_ddc	.	.	.	.	o	o	o	o	o	o	o	o	o	o
c201e_95	No0103	M87	3mm_ddc	.	.	.	.	o	o	70	o	o	o	o	o	80	o
c201e_96	No0104	3C279	3mm_ddc	.	.	.	.	o	o	x	o	o	o	o	o	x	o