

# C191A/MH004A Correlation Report

## General information

- Consists of only one science project: **MH004A**
- PI: Hada
- Targets: 3C84, M87, 3C273, 3C279
- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: [http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr19/feedback\\_apr19.asc](http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr19/feedback_apr19.asc)
- Text file with detailed antenna statistics, scroll down to get to the cumulative statistics for the whole experiment:  
[c191a.antrep](http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr19/c191a.antrep)

## Current Status

correlation finished, data **released** on 19/09/2019.

the **second release** was made on 18/01/2020 to fix the double autocorrelation issue.

## Fringes

Fourfit fringe plots with fringes to multiple antennas:

Scan No0068, source 3C273, fringes to all stations: [No0068\\_all.pdf](#)

Station	Code	Fringes	Plots	Comments
GLT: Gl	g	yes	<p>Fringe overview of all baselines (all of C191A) including this antenna in LL (left for each baseline) and RR (right for each baseline).</p> <p>Legend: white - scheduled, but no data, blue - no fringe, dark red/brown/green - fringes of different quality.</p> <p><a href="#">c191a_FRINGE_RfAnt_Gl_LLRR_AllSrc.pdf</a></p> <p>Examples of fourfit fringe plots can be found in:</p> <p><a href="#">No0068_all.pdf</a></p> <p>Same for all antennas below unless otherwise noted.</p>	confirmed correct polarization configuration for this session
GBT: Gb	G	yes	<p><a href="#">c191a_FRINGE_RfAnt_Gb_LLRR_AllSrc.pdf</a></p> <p><a href="#">No0068_all.pdf</a></p>	broken Cal-Wheel, no Tsys
VLBA: Br	b	yes	<p><a href="#">c191a_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf</a></p> <p><a href="#">No0068_all.pdf</a></p>	

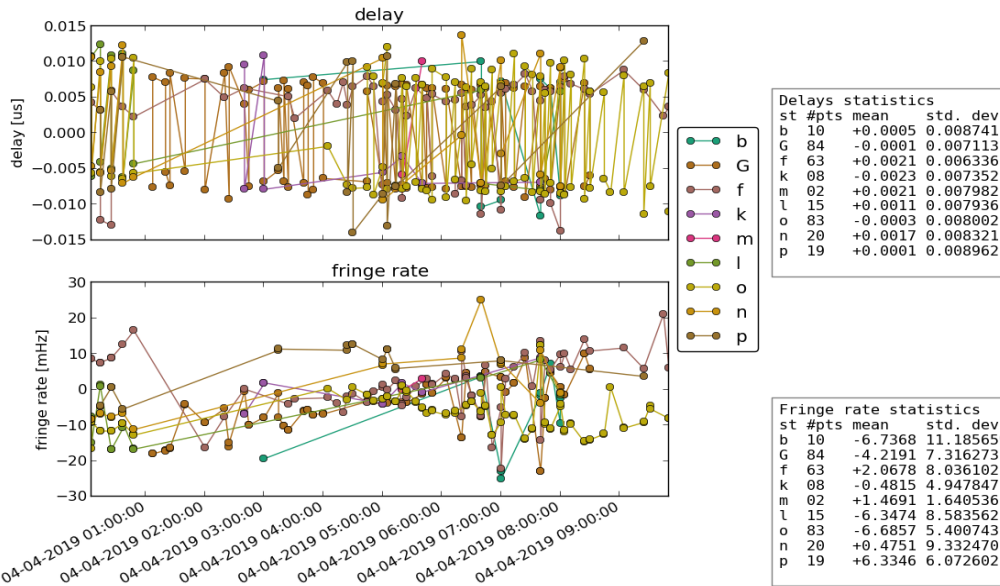
Station	Code	Fringes	Plots	Comments
VLBA: Fd	f	yes	<a href="#">c191a FRINGE RfAnt Fd LLRR AllSrc.pdf</a> <a href="#">No0068_all.pdf</a>	high winds
VLBA: Kp	k	yes	<a href="#">c191a FRINGE RfAnt Kp LLRR AllSrc.pdf</a> <a href="#">No0068_all.pdf</a>	
VLBA: La	l	yes	<a href="#">c191a FRINGE RfAnt La LLRR AllSrc.pdf</a> <a href="#">No0068_all.pdf</a>	partially cloudy
VLBA: Mk	m	yes	<a href="#">c191a FRINGE RfAnt Mk LLRR AllSrc.pdf</a> <a href="#">No0068_all.pdf</a>	3mm receiver was just replaced and is still far too warm. <b>This severely deteriorated the quality of the data.</b>  Taken out for several scans because of USNO observing.
VLBA: Nl	n	yes	<a href="#">c191a FRINGE RfAnt Nl LLRR AllSrc.pdf</a> <a href="#">No0068_all.pdf</a>	cloudy conditions, receiver slightly warm
VLBA: Ov	o	yes	<a href="#">c191a FRINGE RfAnt Ov LLRR AllSrc.pdf</a> <a href="#">No0068_all.pdf</a>	.
VLBA: Pt	p	yes	<a href="#">c191a FRINGE RfAnt Pt LLRR AllSrc.pdf</a> <a href="#">No0068_all.pdf</a>	Taken out for several scans because of USNO observing.

## Notes

### Post-Correlation checks

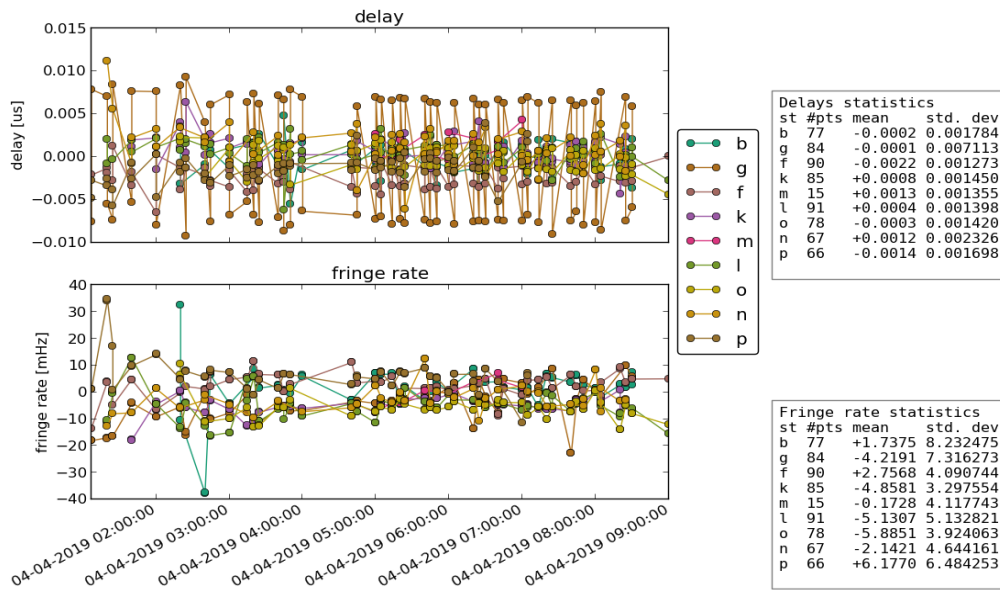
### Residuals

GLT:



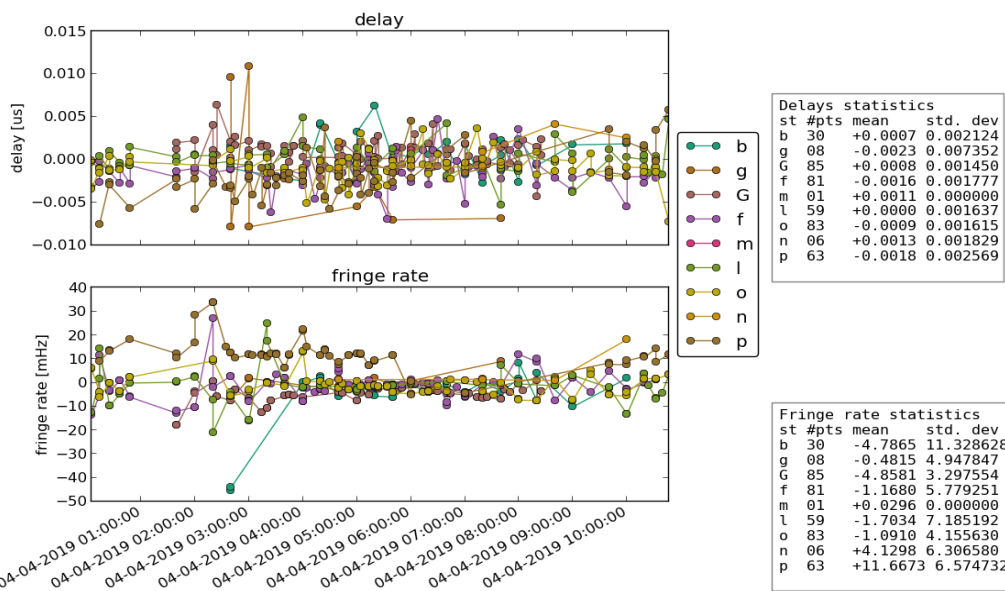
Reference station: g Pol: RR,LL

GBT:



Reference station: G Pol: RR,LL

Kp:



Reference station: k Pol: RR,LL

**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

**mh004a.fits:**

				NL	PT	LA	FD	OV	KP	BR	MK	GL	GB	
c191a_01	No0001	3C84	3mm_RDBE	o	06	o	06	06	o	o	06	o	.	
c191a_02	No0002	3C84	3mm_RDBE	o	93	o	93	93	o	o	93	o	.	
c191a_03	No0003	3C84	3mm_RDBE	o	o	o	o	o	o	o	o	o	.	
c191a_04	No0004	3C84	3mm_RDBE	o	o	o	o	o	o	o	o	o	.	
c191a_05	No0005	3C84	3mm_RDBE	o	o	o	o	o	o	o	o	o	.	
c191a_06	No0007	3C273	3mm_RDBE	o	.	o	o	.	.	.	.	o	o	
c191a_07	No0008	M87	3mm_RDBE	o	o	o	o	.	.	.	.	o	o	
c191a_08	No0009	3C273	3mm_RDBE	o	o	o	o	.	.	.	.	o	o	
c191a_09	No0010	M87	3mm_RDBE	o	o	o	o	.	.	.	.	o	o	
c191a_10	No0011	M87	3mm_RDBE	o	o	o	o	.	.	.	.	o	.	
c191a_11	No0013	3C273	3mm_RDBE	o	o	o	o	o	o	.	.	o	o	
c191a_12	No0014	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	o
c191a_13	No0015	3C273	3mm_RDBE	o	o	o	o	o	o	44	.	o	o	
c191a_14	No0016	M87	3mm_RDBE	o	o	o	o	o	o	o	.	o	o	
c191a_15	No0017	M87	3mm_RDBE	o	o	o	o	o	o	o	.	o	.	
c191a_16	No0019	3C273	3mm_RDBE	o	o	o	o	o	o	o	.	o	o	
c191a_17	No0020	M87	3mm_RDBE	o	o	o	o	o	o	o	.	o	o	

c191a_18	No0021	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	o
c191a_19	No0022	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	88
c191a_20	No0023	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	o
c191a_21	No0024	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	.
c191a_22	No0026	3C273	3mm_RDBE	o	77	o	77	o	o	o	o	.	o	o
c191a_23	No0027	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	o
c191a_24	No0028	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	o
c191a_25	No0029	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	88
c191a_26	No0030	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	o
c191a_27	No0031	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	.
c191a_28	No0033	3C273	3mm_RDBE	o	77	o	77	77	o	o	o	.	o	o
c191a_29	No0034	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	o
c191a_30	No0035	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	o
c191a_31	No0036	3C273	3mm_RDBE	o	22	o	22	22	o	o	o	.	o	o
c191a_32	No0037	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	o
c191a_33	No0038	M87	3mm_RDBE	o	93	o	93	93	o	o	o	.	o	.
c191a_34	No0040	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	o	88
c191a_35	No0041	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_36	No0042	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_37	No0043	3C279	3mm_RDBE	o	22	o	22	o	o	o	o	.	.	o
c191a_38	No0044	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_39	No0045	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c191a_40	No0047	3C273	3mm_RDBE	o	77	o	77	o	o	o	o	o	o	o
c191a_41	No0048	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_42	No0049	M87	3mm_RDBE	o	93	o	93	o	o	o	o	o	o	o
c191a_43	No0050	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_44	No0051	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_45	No0052	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c191a_46	No0054	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_47	No0055	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_48	No0056	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_49	No0057	3C279	3mm_RDBE	o	22	o	22	o	o	o	o	.	o	o
c191a_50	No0058	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_51	No0059	M87	3mm_RDBE	o	93	o	93	93	o	o	93	o	.	o
c191a_52	No0061	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	88
c191a_53	No0062	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_54	No0063	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_55	No0064	3C273	3mm_RDBE	o	22	o	22	22	o	o	22	o	o	o
c191a_56	No0065	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c191a_57	No0066	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c191a_58	No0068	3C273	3mm_RDBE	o	77	o	77	77	o	o	77	o	o	o
c191a_59	No0069	M87	3mm_RDBE	o	60	o	o	o	o	o	60	o	o	o
c191a_60	No0070	M87	3mm_RDBE	o	x	o	93	93	o	26	x	o	o	o
c191a_61	No0071	3C279	3mm_RDBE	o	x	o	o	o	o	o	x	.	o	o
c191a_62	No0072	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	o	o
c191a_63	No0073	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	.	o
c191a_64	No0075	3C273	3mm_RDBE	o	x	o	44	44	o	o	x	o	o	o
c191a_65	No0076	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	o	o
c191a_66	No0077	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	o	o
c191a_67	No0078	3C273	3mm_RDBE	o	x	o	22	22	o	o	x	o	o	o

c191a_68	No0079	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	o
c191a_69	No0080	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	.
c191a_70	No0082	3C273	3mm_RDBE	o	x	o	77	77	o	o	x	.	o
c191a_71	No0083	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	o
c191a_72	No0084	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	o
c191a_73	No0085	3C279	3mm_RDBE	o	x	o	22	22	o	o	x	.	o
c191a_74	No0086	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	o
c191a_75	No0087	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	.
c191a_76	No0089	3C273	3mm_RDBE	o	x	o	77	77	o	o	x	.	o
c191a_77	No0090	M87	3mm_RDBE	o	x	o	o	o	o	o	x	o	o
c191a_78	No0091	3C273	3mm_RDBE	o	22	o	22	22	o	o	22	.	o
c191a_79	No0092	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o
c191a_80	No0093	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	.
c191a_81	No0095	3C273	3mm_RDBE	o	77	o	77	77	o	o	x	.	o
c191a_82	No0096	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o
c191a_83	No0097	M87	3mm_RDBE	o	o	o	o	o	o	o	o	o	o
c191a_84	No0098	3C273	3mm_RDBE	o	22	o	22	22	o	o	22	.	o
c191a_85	No0099	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o
c191a_86	No0100	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	.
c191a_87	No0102	3C273	3mm_RDBE	o	o	o	o	o	o	o	o	.	o
c191a_88	No0103	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	o
c191a_89	No0104	3C273	3mm_RDBE	o	o	44	o	44	o	o	44	.	.
c191a_90	No0105	M87	3mm_RDBE	o	o	o	o	88	o	o	88	.	.
c191a_91	No0106	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	.
c191a_92	No0107	M87	3mm_RDBE	o	o	o	o	o	o	o	o	.	.