

# MG005B Correlation Report

## General information

- A part of [C191C](#)
- PI: Gomez
- Targets: 3C345, 1633+38, 1749+096
- 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:  
[c191c.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 No0097, source 3C345, fringes to all stations: [No0097\\_all.pdf](#)

Station	Code	Fringes	Plots	Comments
Ef	B	yes	<p>Fringe overview of all baselines (all of C191C) 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="#">c191c FRINGE RfAnt Ef LLRR AllSrc.pdf</a></p> <p>Examples of fourfit fringe plots:</p> <p><a href="#">No0097_all.pdf</a></p> <p><b>Same for all antennas below unless otherwise noted.</b></p>	weather mixed, everything from clear sky to light rain
On	X	yes	<p><a href="#">c191c FRINGE RfAnt On LLRR AllSrc.pdf</a></p> <p><a href="#">No0097_all.pdf</a></p>	
Ys	Y	yes	<p><a href="#">c191c FRINGE RfAnt Ys LLRR AllSrc.pdf</a></p> <p><a href="#">No0097_all.pdf</a></p>	

Station	Code	Fringes	Plots	Comments
Mh	Z	yes	<a href="#">c191c FRINGE RfAnt Mh LLRR AllSrc.pdf</a> <a href="#">No0097_all.pdf</a>	
Pv	P	no	<a href="#">c191c FRINGE RfAnt Pv LLRR AllSrc.pdf</a>	did not observe due to bad weather
GLT: Gl	g	yes	<a href="#">c191c FRINGE RfAnt Gl LLRR AllSrc.pdf</a> <a href="#">No0097_all.pdf</a>	confirmed correct polarization configuration for this session
GBT: Gb	G	yes	<a href="#">c191c FRINGE RfAnt Gb LLRR AllSrc.pdf</a> <a href="#">No0097_all.pdf</a>	broken Cal-Wheel, no Tsys, cloudy and rainy weather
VLBA: Br	b	yes	<a href="#">c191c FRINGE RfAnt Br LLRR AllSrc.pdf</a> <a href="#">No0097_all.pdf</a>	cloudy conditions, precipitation
VLBA: Fd	f	yes	<a href="#">c191c FRINGE RfAnt Fd LLRR AllSrc.pdf</a> <a href="#">No0097_all.pdf</a>	High winds. Dropped out for technical reasons, both briefly and for significant lengths of time.
VLBA: Kp	k	yes	<a href="#">c191c FRINGE RfAnt Kp LLRR AllSrc.pdf</a> <a href="#">No0097_all.pdf</a>	cloudy confitions
VLBA: La	l	yes	<a href="#">c191c FRINGE RfAnt La LLRR AllSrc.pdf</a> <a href="#">No0097_all.pdf</a>	
VLBA: Mk	m	no	<a href="#">c191c FRINGE RfAnt Mk LLRR AllSrc.pdf</a>	Out for 3mm receiver repair. No scans recorded.
VLBA: Nl	n	yes	<a href="#">c191c FRINGE RfAnt Nl LLRR AllSrc.pdf</a> <a href="#">No0097_all.pdf</a>	cloudy conditions, receiver slightly warm
VLBA: Ov	o	yes	<a href="#">c191c FRINGE RfAnt Ov LLRR AllSrc.pdf</a> <a href="#">No0097_all.pdf</a>	high winds, cloudy conditions
VLBA: Pt	p	yes	<a href="#">c191c FRINGE RfAnt Pt LLRR AllSrc.pdf</a>	High winds, cloudy conditions.

Station	Code	Fringes	Plots	Comments
			<a href="#">No0097_all.pdf</a>	Taken out for several scans because of USNO observing. Also briefly parked to check cryos.

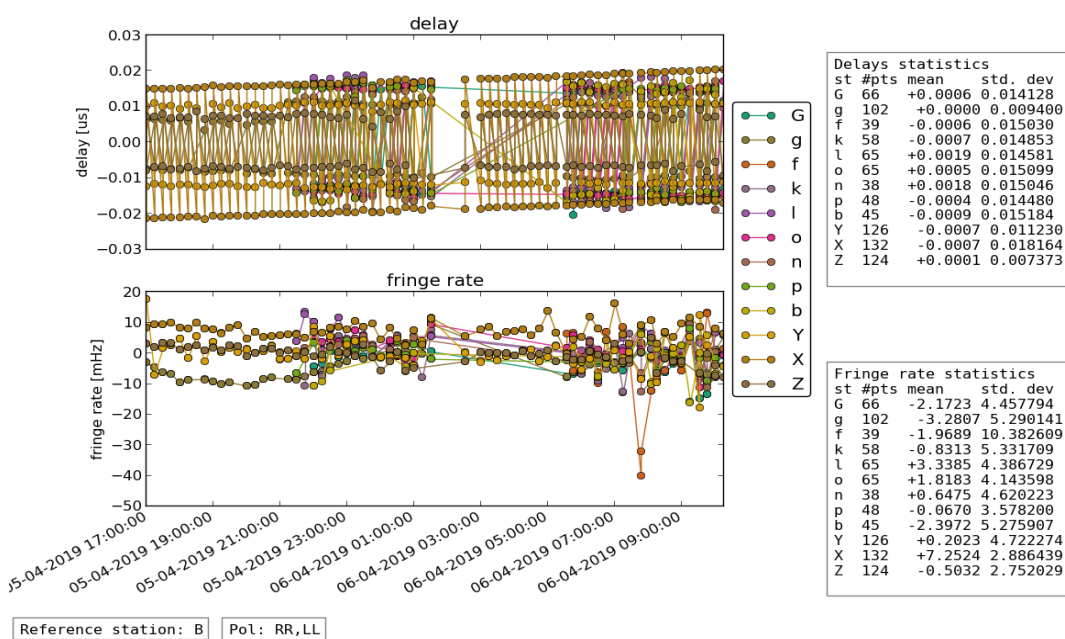
### Notes

ALMA was supposed to take part in this experiment, but did not participate because of extremely harsh weather.

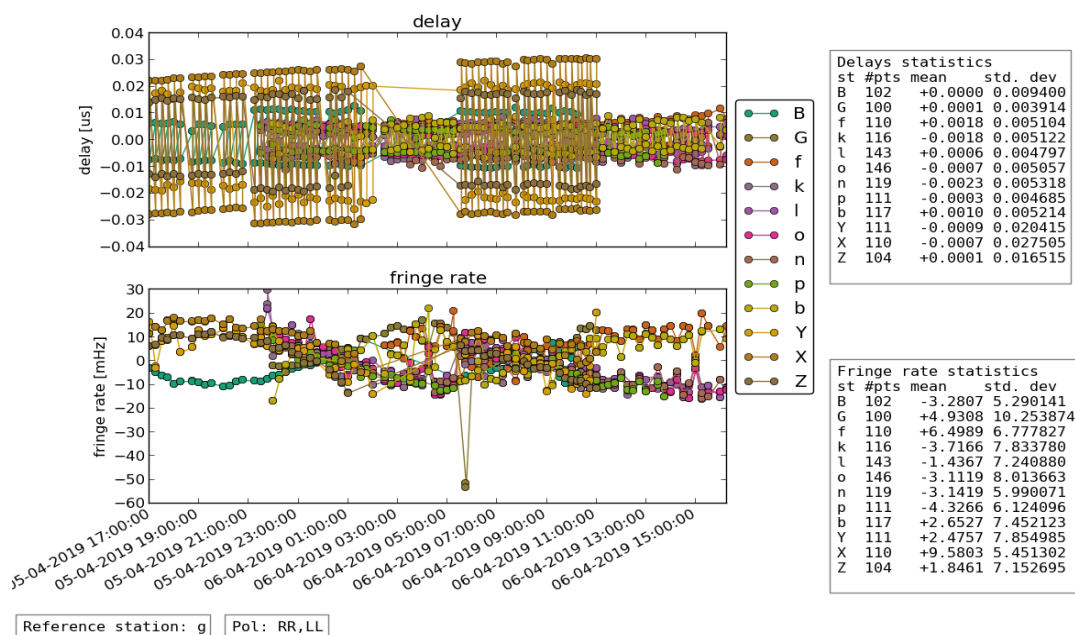
### Post-Correlation checks

#### Residuals

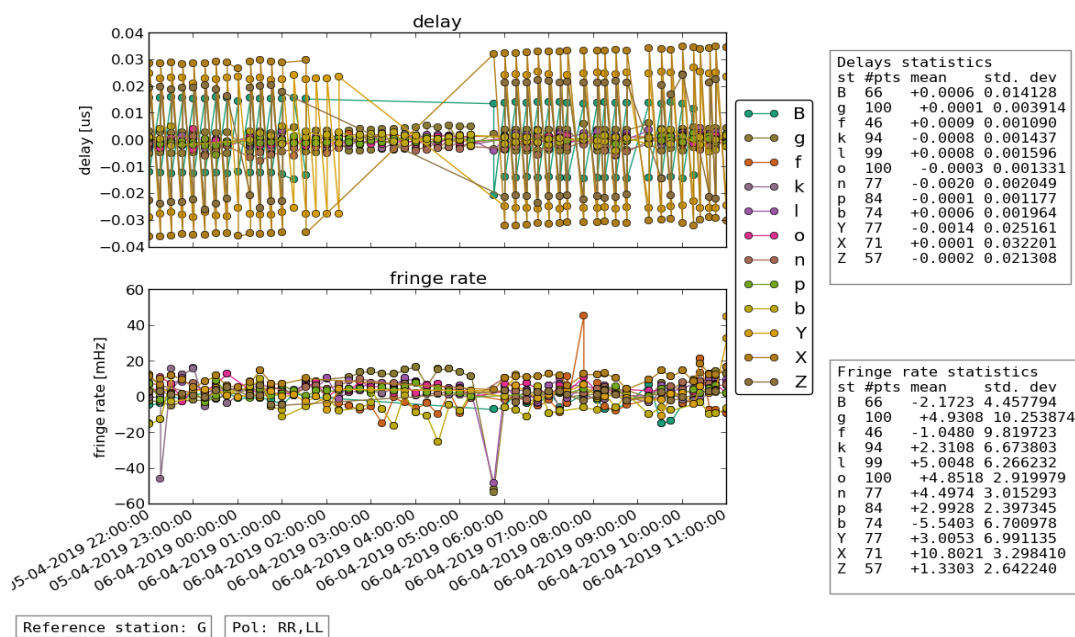
Ef:



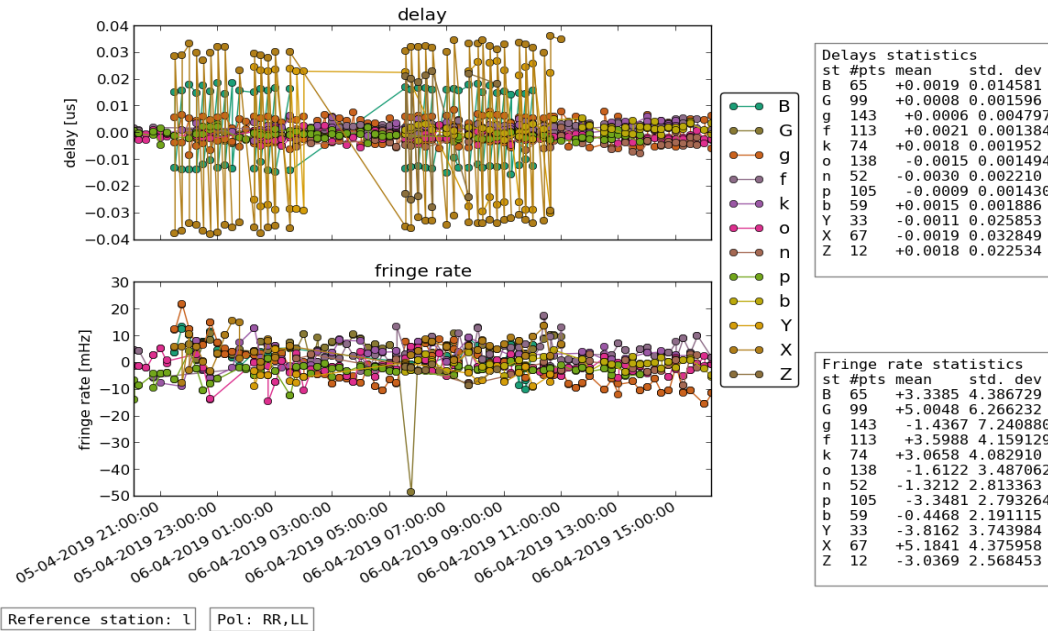
GLT:



GBT:



La:



Reference station: l 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

**mg005b.fits:**

				EF	ON	YS	PV	MH	GL	NL	FD	OV	PT	BR	KP	MK	LA	GB
c191c_048	No0059	3C345	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_050	No0061	3C345	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_052	No0064	1633+38	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_054	No0066	3C345	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_056	No0069	3C345	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_058	No0071	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_060	No0074	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_062	No0076	1749+096	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_064	No0079	3C345	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_066	No0081	3C345	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_068	No0084	1633+38	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_070	No0086	3C345	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_071	No0088	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	x	o	o	.	o	o
c191c_072	No0089	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	x	o	o	.	o	o
c191c_073	No0090	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	x	o	o	.	o	o
c191c_074	No0091	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	x	o	o	.	o	o
c191c_075	No0093	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	x	o	o	.	o	o

c191c_076	No0094	1633+38	3mm_RDBE	o	o	o	x	o	o	o	o	o	x	o	o	.	o	o
c191c_077	No0095	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	x	o	o	.	o	o
c191c_078	No0097	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o
c191c_079	No0098	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	06	o	.	o	o
c191c_080	No0100	1749+096	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o
c191c_081	No0102	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_082	No0103	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_083	No0104	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_084	No0106	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_085	No0107	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	.
c191c_086	No0109	1749+096	3mm_RDBE	o	o	o	x	.	o	o	o	o	o	o	o	.	o	o
c191c_087	No0111	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_088	No0112	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_089	No0113	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_090	No0115	1633+38	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_091	No0116	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_092	No0117	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_093	No0118	3C345	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o
c191c_094	No0119	3C345	3mm_RDBE	.	o	o	.	o	o	o	o	o	o	o	o	x	o	o
c191c_095	No0120	3C345	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_096	No0121	1633+38	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_097	No0122	3C345	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_098	No0123	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_099	No0124	1633+38	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_100	No0125	3C345	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_101	No0126	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_102	No0127	1633+38	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_103	No0128	3C345	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_104	No0129	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_105	No0130	1633+38	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	70	o	x	o	.
c191c_106	No0131	3C345	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_107	No0132	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	66	o	x	o	.
c191c_108	No0133	1633+38	3mm_RDBE	.	.	.	.	.	o	o	o	o	o	o	o	x	o	.
c191c_109	No0134	3C345	3mm_RDBE	.	.	.	.	.	o	o	o	o	x	o	o	x	o	.
c191c_110	No0135	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	o	x	o	o	x	o	.
c191c_111	No0136	1633+38	3mm_RDBE	.	.	.	.	.	o	o	o	o	x	o	o	x	o	.
c191c_112	No0137	3C345	3mm_RDBE	.	.	.	.	.	o	o	o	o	x	o	o	x	o	.
c191c_113	No0138	1749+096	3mm_RDBE	.	.	.	.	.	o	o	o	x	o	o	x	o	.	.
c191c_114	No0139	1633+38	3mm_RDBE	.	.	.	.	.	o	o	o	o	x	o	o	x	o	.
c191c_115	No0140	3C345	3mm_RDBE	.	.	.	.	.	o	o	o	o	x	o	o	x	o	.