

# MG005A Correlation Report

## General information

- A part of [C191C](#)
- PI: Gomez
- Targets: OJ287, 1055+018, 3C84
- 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 No0016, source 3C84, fringes to Br, Fd, Kp, La, Ov, Pt: [No0016\\_all.pdf](#)

Scan No0036, source OJ287, fringes to Ef, On, Ys, Mh, Gl, Gb, Kp, La, Nl, Ov, Pt: [No0036\\_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="#">No0036_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="#">No0036_all.pdf</a></p>	
Ys	Y	yes	<p><a href="#">c191c_FRINGE_RfAnt_Ys_LLRR_AllSrc.pdf</a></p> <p><a href="#">No0036_all.pdf</a></p>	

Station	Code	Fringes	Plots	Comments
Mh	Z	yes	<a href="#">c191c FRINGE RfAnt Mh LLRR AllSrc.pdf</a> <a href="#">No0036_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="#">No0036_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="#">No0036_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="#">No0016_all.pdf</a>	cloudy conditions, precipitation
VLBA: Fd	f	yes	<a href="#">c191c FRINGE RfAnt Fd LLRR AllSrc.pdf</a> <a href="#">No0016_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="#">No0016_all.pdf</a> , <a href="#">No0036_all.pdf</a>	cloudy confitions
VLBA: La	l	yes	<a href="#">c191c FRINGE RfAnt La LLRR AllSrc.pdf</a> <a href="#">No0016_all.pdf</a> , <a href="#">No0036_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="#">No0036_all.pdf</a>	cloudy conditions, receiver slightly warm
VLBA: Ov	o	yes	<a href="#">c191c FRINGE RfAnt Ov LLRR AllSrc.pdf</a> <a href="#">No0016_all.pdf</a> , <a href="#">No0036_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="#">No0016_all.pdf</a> , <a href="#">No0036_all.pdf</a>	Taken out for several scans because of USNO observing. Also briefly parked to check cryos.

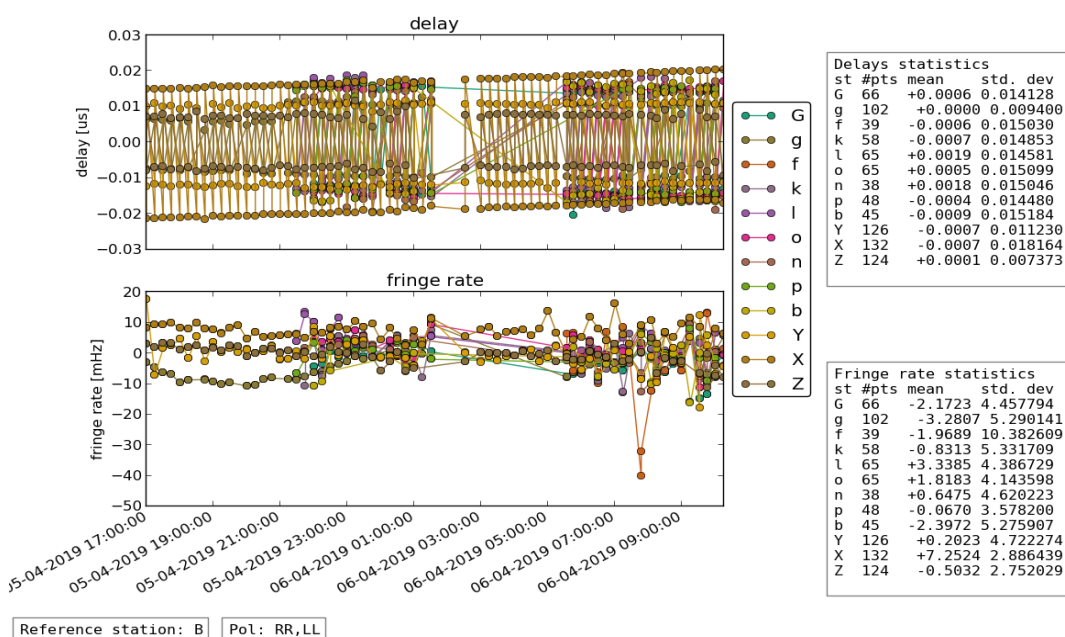
### Notes

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

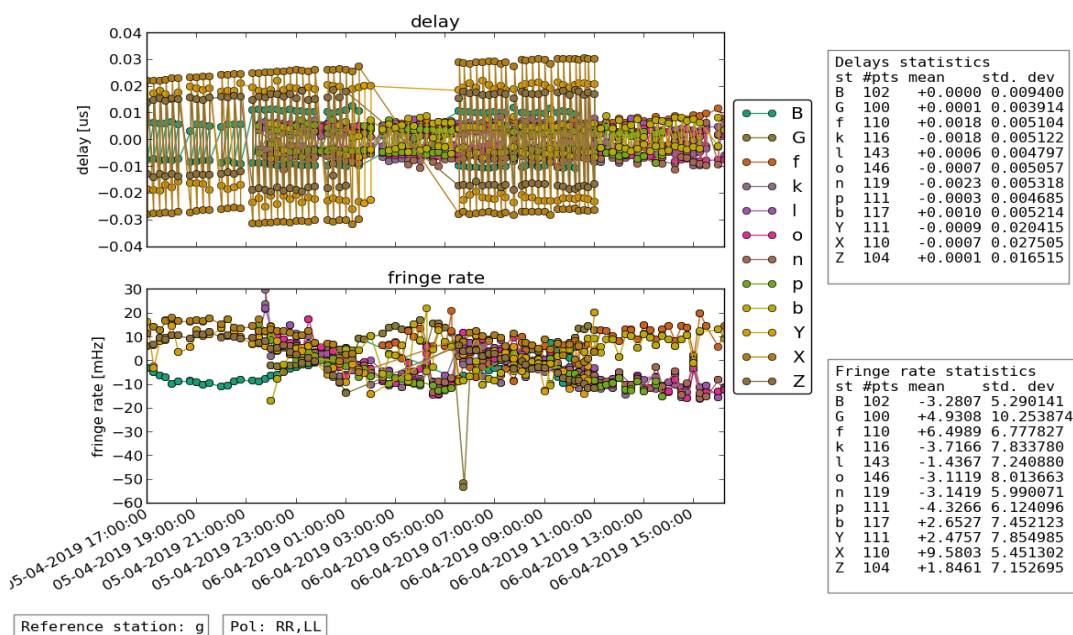
### Post-Correlation checks

#### Residuals

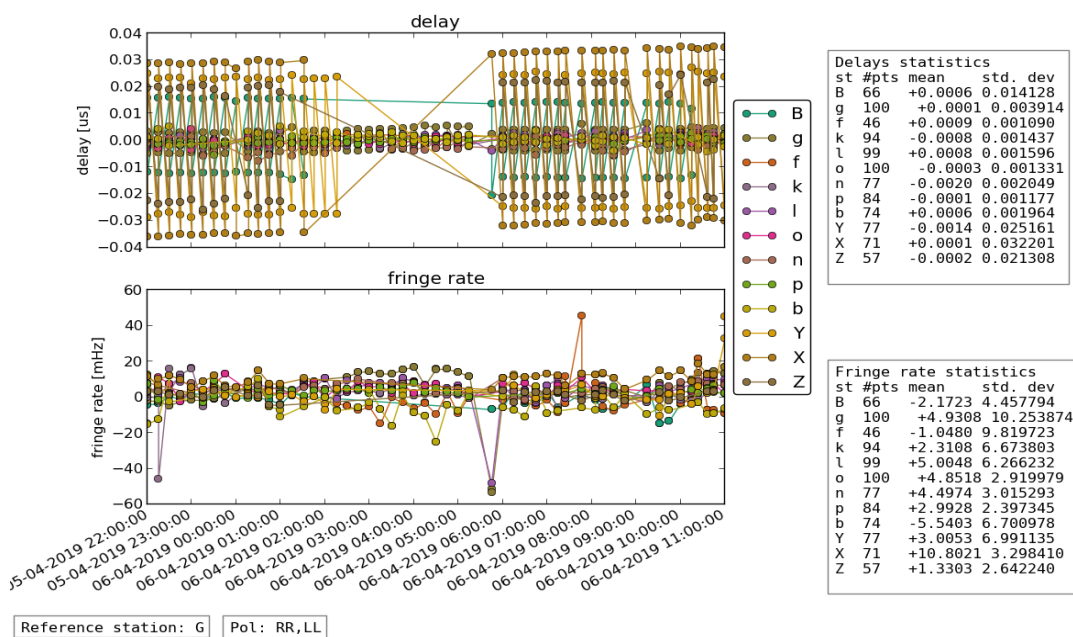
Ef:



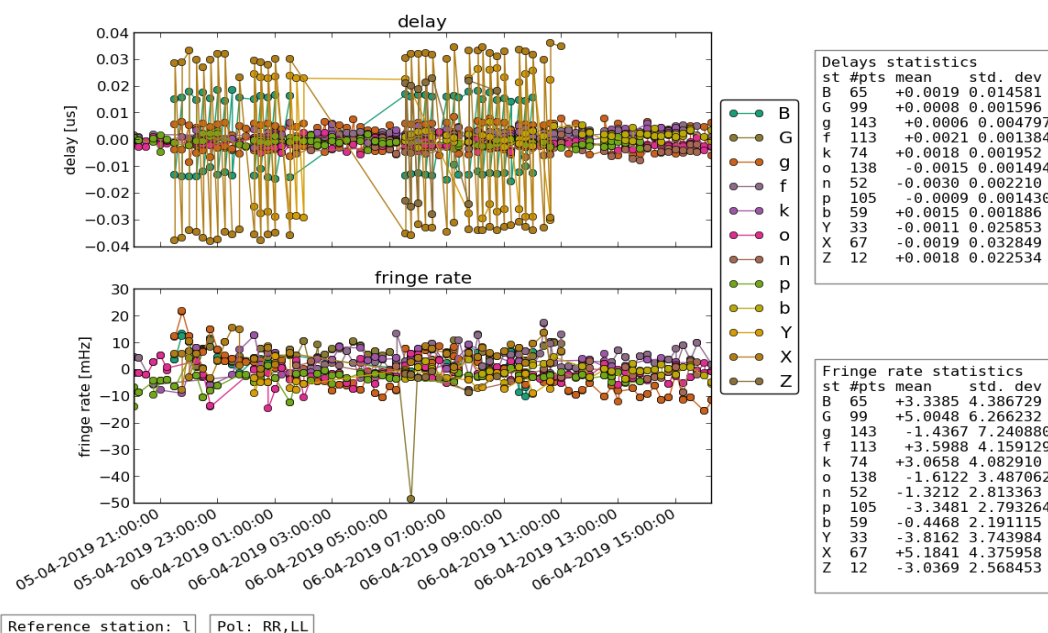
GLT:



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

### mg005a.fits:

				EF	ON	YS	PV	MH	GL	NL	FD	OV	PT	BR	KP	MK	LA	GB
c191c_001	No0001	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_002	No0002	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_003	No0003	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_004	No0004	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_005	No0005	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_006	No0006	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_007	No0007	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_008	No0008	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_009	No0009	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_010	No0010	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_011	No0011	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_012	No0012	1055+018	3mm_RDBE	o	o	o	x	o	.	.	.	.	.	.	.	.	.	.
c191c_013	No0013	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_014	No0014	3C84	3mm_RDBE	.	.	.	.	.	.	.	o	o	o	o	o	x	o	.
c191c_015	No0015	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.
c191c_016	No0016	3C84	3mm_RDBE	.	.	.	.	.	.	.	o	o	o	o	o	x	o	.
c191c_017	No0017	OJ287	3mm_RDBE	o	o	o	x	o	o	.	.	.	.	.	.	.	.	.

c191c_018	No0018	3C84	3mm_RDBE	.	.	.	.	.	.	.	.	x	o	o	o	o	x	o	.
c191c_019	No0019	OJ287	3mm_RDBE	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.
c191c_020	No0020	3C84	3mm_RDBE	.	.	.	.	.	.	.	o	o	o	o	o	o	x	o	.
c191c_021	No0021	OJ287	3mm_RDBE	o	o	o	x	o	x	o	.	.	.	.	.	.	.	.	.
c191c_022	No0022	3C84	3mm_RDBE	.	.	.	.	.	.	.	o	o	o	o	o	o	x	o	.
c191c_023	No0023	OJ287	3mm_RDBE	o	o	o	x	o	o	o	.	.	.	.	.	.	.	.	.
c191c_024	No0024	3C84	3mm_RDBE	.	.	.	.	.	.	.	o	o	o	o	o	o	x	o	.
c191c_025	No0025	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	.	o	.	.	.	.	o	.
c191c_026	No0026	3C84	3mm_RDBE	.	.	.	.	.	.	.	o	.	o	o	x	.	.	.	.
c191c_027	No0027	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	.	o	o	o	.	o	.	.
c191c_028	No0029	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o	o
c191c_029	No0030	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o	o
c191c_030	No0032	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o	o
c191c_031	No0033	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o	o
c191c_032	No0035	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o	o
c191c_033	No0036	OJ287	3mm_RDBE	o	o	o	x	17	o	o	o	o	o	o	o	.	o	o	o
c191c_034	No0038	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o	o
c191c_035	No0039	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o	o
c191c_036	No0041	1055+018	3mm_RDBE	o	o	o	x	o	.	o	.	.	.	.	.	.	.	.	o
c191c_037	No0042	OJ287	3mm_RDBE	.	.	.	.	o	.	o	o	o	o	o	o	.	o	.	.
c191c_038	No0044	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o	o
c191c_039	No0045	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	.	o	o	o
c191c_040	No0047	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o	o
c191c_041	No0049	OJ287	3mm_RDBE	o	o	o	x	o	o	o	o	o	o	o	o	x	o	o	o
c191c_042	No0050	1055+018	3mm_RDBE	o	o	o	x	.	o	o	o	o	o	o	o	.	o	o	o
c191c_043	No0052	OJ287	3mm_RDBE	o	o	o	x	.	o	66	o	o	o	o	o	x	o	o	o
c191c_044	No0053	OJ287	3mm_RDBE	.	.	o	x	.	o	o	o	o	o	o	o	x	o	o	o
c191c_045	No0055	OJ287	3mm_RDBE	.	.	o	x	.	o	o	o	o	o	o	o	x	o	o	o
c191c_046	No0057	1055+018	3mm_RDBE	.	.	o	x	.	x	o	o	o	o	o	o	.	o	o	o
c191c_047	No0058	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_049	No0060	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_051	No0063	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	86	o	x	o	o	o
c191c_053	No0065	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_055	No0068	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_057	No0070	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_059	No0073	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_061	No0075	1055+018	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_063	No0078	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_065	No0080	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_067	No0083	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o
c191c_069	No0085	OJ287	3mm_RDBE	.	.	.	.	o	o	o	o	o	o	o	o	x	o	o	o