

C181B / MJ001A Correlation Report

General information

- Consists of only one subproject: MJ001A
- Session info: <http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/>
- Station feedback: http://www3.mpifr-bonn.mpg.de/div/vlbi/globalmm/sessions/apr18/feedback_apr18.asc
- GBT calibration info (Tsys files for download) and other related information for this session can be found here: <https://safe.nrao.edu/wiki/bin/view/GB/Observing/WbandVLBACal/C181>
- *Special processing* was applied to all data in order to correlate mismatching frequency setups of ALMA and other GMVA stations. See details [here](#).

Current Status

Correlation finished, data **released** on 10/12/2018.

A **second** data release, rerunning PolConvert with the latest (25.06.2019) ALMA QA2 release, was made on 16/09/2019.

Fringes

Station	Code	Fringes	Plots	Comments
VLBA: Br	b	yes	<p>Fringe overview of all baselines of this antenna 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.</p> <p>c181b FRINGE RfAnt Br LLRR AllSrc.pdf</p> <p>Examples of fourfit fringe plots:</p> <p>c181b No0003 3C279 bp LL.pdf, c181b No0003 3C279 bp LR.pdf, c181b No0003 3C279 bp RL.pdf, c181b No0003 3C279 bp RR.pdf</p> <p>c181b No0035 1921-293 Ab LL.pdf, c181b No0035 1921-293 Ab LR.pdf, c181b No0035 1921-293 Ab RL.pdf, c181b No0035 1921-293 Ab RR.pdf</p> <p>Same for all antennas below unless otherwise noted.</p>	
VLBA: Fd	f	yes	<p>c181b FRINGE RfAnt Fd LLRR AllSrc.pdf</p> <p>c181b No0003 3C279 fp LL.pdf, c181b No0003 3C279 fp LR.pdf, c181b No0003 3C279 fp RL.pdf, c181b No0003 3C279 fp RR.pdf</p> <p>c181b No0035 1921-293 Af LL.pdf, c181b No0035 1921-293 Af LR.pdf, c181b No0035 1921-293 Af RL.pdf, c181b No0035 1921-293 Af RR.pdf</p>	
VLBA: Kp	k	yes	<p>c181b FRINGE RfAnt Kp LLRR AllSrc.pdf</p> <p>c181b No0003 3C279 kp LL.pdf, c181b No0003 3C279 kp LR.pdf, c181b No0003 3C279 kp RL.pdf, c181b No0003 3C279 kp RR.pdf</p>	

Station	Code	Fringes	Plots	Comments
			c181b No0035 1921-293 Ak LL.pdf , c181b No0035 1921-293 Ak LR.pdf , c181b No0035 1921-293 Ak RL.pdf , c181b No0035 1921-293 Ak RR.pdf	
VLBA: La	l	yes	c181b FRINGE RfAnt La LLRR AllSrc.pdf c181b No0003 3C279 lp LL.pdf , c181b No0003 3C279 lp LR.pdf , c181b No0003 3C279 lp RL.pdf , c181b No0003 3C279 lp RR.pdf c181b No0035 1921-293 Al LL.pdf , c181b No0035 1921-293 Al LR.pdf , c181b No0035 1921-293 Al RL.pdf , c181b No0035 1921-293 Al RR.pdf	
VLBA: Mk	m	yes	c181b FRINGE RfAnt Mk LLRR AllSrc.pdf c181b No0003 3C279 mp LL.pdf , c181b No0003 3C279 mp LR.pdf , c181b No0003 3C279 mp RL.pdf , c181b No0003 3C279 mp RR.pdf c181b No0035 1921-293 Am LL.pdf , no LR fringe detected, c181b No0035 1921-293 Am RL.pdf , c181b No0035 1921-293 Am RR.pdf	Taken out for several scans because of USNO observing.
VLBA: Nl	n	yes	c181b FRINGE RfAnt Nl LLRR AllSrc.pdf c181b No0003 3C279 np LL.pdf , c181b No0003 3C279 np LR.pdf , c181b No0003 3C279 np RL.pdf , c181b No0003 3C279 np RR.pdf c181b No0035 1921-293 An LL.pdf , c181b No0035 1921-293 An LR.pdf , c181b No0035 1921-293 An RL.pdf , c181b No0035 1921-293 An RR.pdf	
VLBA: Ov	o	yes	c181b FRINGE RfAnt Ov LLRR AllSrc.pdf c181b No0003 3C279 op LL.pdf , c181b No0003 3C279 op LR.pdf , c181b No0003 3C279 op RL.pdf , c181b No0003 3C279 op RR.pdf c181b No0035 1921-293 Ao LL.pdf , c181b No0035 1921-293 Ao LR.pdf , c181b No0035 1921-293 Ao RL.pdf , c181b No0035 1921-293 Ao RR.pdf	
VLBA: Pt	p	yes	c181b FRINGE RfAnt Pt LLRR AllSrc.pdf c181b No0003 3C279 Ap LL.pdf , c181b No0003 3C279 Ap LR.pdf , c181b No0003 3C279 Ap RL.pdf , c181b No0003 3C279 Ap RR.pdf c181b No0003 3C279 bp LL.pdf , c181b No0003 3C279 bp LR.pdf , c181b No0003 3C279 bp RL.pdf , c181b No0003 3C279 bp RR.pdf c181b No0003 3C279 fp LL.pdf , c181b No0003 3C279 fp LR.pdf , c181b No0003 3C279 fp RL.pdf , c181b No0003 3C279 fp RR.pdf	Taken out for several scans because of USNO observing.

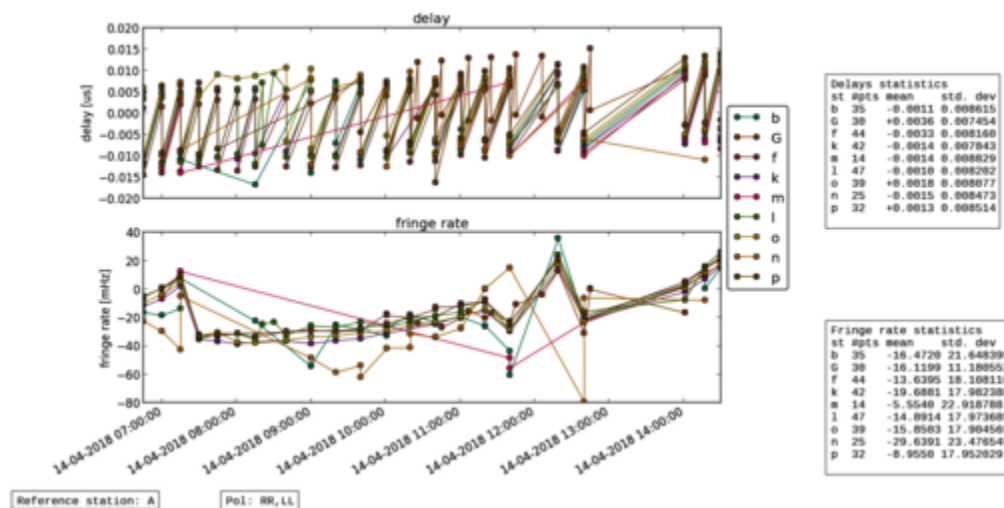
Station	Code	Fringes	Plots	Comments
			c181b No0003 3C279 kp LL.pdf , c181b No0003 3C279 kp LR.pdf , c181b No0003 3C279 kp RL.pdf , c181b No0003 3C279 kp RR.pdf c181b No0003 3C279 lp LL.pdf , c181b No0003 3C279 lp LR.pdf , c181b No0003 3C279 lp RL.pdf , c181b No0003 3C279 lp RR.pdf c181b No0003 3C279 mp LL.pdf , c181b No0003 3C279 mp LR.pdf , c181b No0003 3C279 mp RL.pdf , c181b No0003 3C279 mp RR.pdf c181b No0003 3C279 np LL.pdf , c181b No0003 3C279 np LR.pdf , c181b No0003 3C279 np RL.pdf , c181b No0003 3C279 np RR.pdf c181b No0003 3C279 op LL.pdf , c181b No0003 3C279 op LR.pdf , c181b No0003 3C279 op RL.pdf , c181b No0003 3C279 op RR.pdf c181b No0035 1921-293 Ap LL.pdf , c181b No0035 1921-293 Ap LR.pdf , c181b No0035 1921-293 Ap RL.pdf , c181b No0035 1921-293 Ap RR.pdf	
GBT: Gb	G	yes	c181b FRINGE RfAnt Gb LLRR AllSrc.pdf c181b No0035 1921-293 AG LL.pdf , c181b No0035 1921-293 AG LR.pdf , c181b No0035 1921-293 AG RL.pdf , c181b No0035 1921-293 AG RR.pdf -----	
ALMA: Aa	A	yes	c181b FRINGE RfAnt Aa LLRR AllSrc.pdf c181b No0003 3C279 Ap LL.pdf , c181b No0003 3C279 Ap LR.pdf , c181b No0003 3C279 Ap RL.pdf , c181b No0003 3C279 Ap RR.pdf c181b No0035 1921-293 Ab LL.pdf , c181b No0035 1921-293 Ab LR.pdf , c181b No0035 1921-293 Ab RL.pdf , c181b No0035 1921-293 Ab RR.pdf c181b No0035 1921-293 Af LL.pdf , c181b No0035 1921-293 Af LR.pdf , c181b No0035 1921-293 Af RL.pdf , c181b No0035 1921-293 Af RR.pdf c181b No0035 1921-293 AG LL.pdf , c181b No0035 1921-293 AG LR.pdf , c181b No0035 1921-293 AG RL.pdf , c181b No0035 1921-293 AG RR.pdf c181b No0035 1921-293 Ak LL.pdf , c181b No0035 1921-293 Ak LR.pdf , c181b No0035 1921-293 Ak RL.pdf , c181b No0035 1921-293 Ak RR.pdf c181b No0035 1921-293 Al LL.pdf , c181b No0035 1921-293 Al LR.pdf , c181b No0035 1921-293 Al RL.pdf , c181b No0035 1921-293 Al RR.pdf c181b No0035 1921-293 Am LL.pdf , no LR fringe detected, c181b No0035 1921-293 Am RL.pdf , c181b No0035 1921-293 Am RR.pdf	Observed in linear polarization, converted to circular polarization in post-correlation using PolConvert. For technical reasons the atmospheric correction was applied twice -- both in original ALMA data and during the correlation. Although a special procedure was developed to compensate for this, we found that its application leads to other difficulties, in particular to abnormally high fringe rate jumps, so in the final production run the

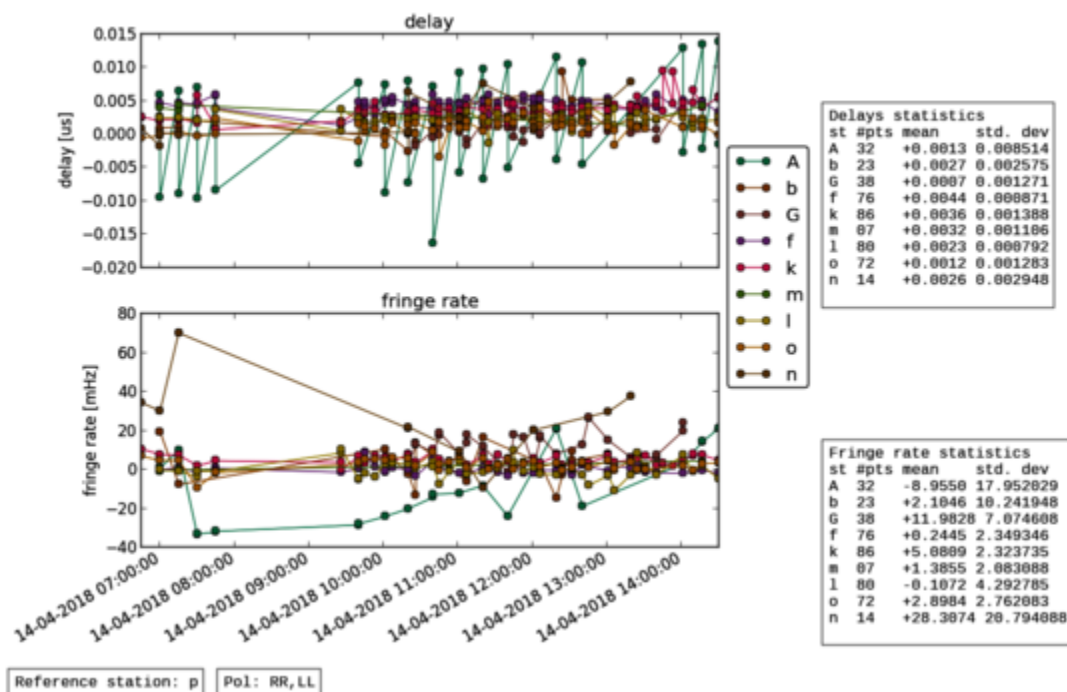
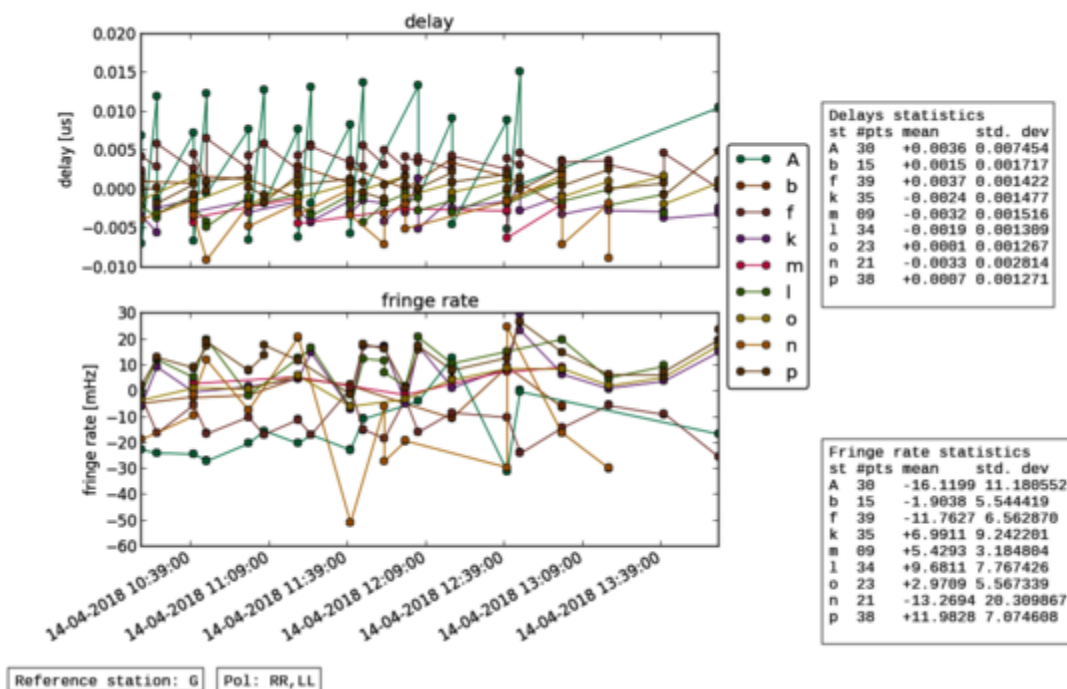
Station	Code	Fringes	Plots	Comments
			c181b No0035 1921-293 An LL.pdf , c181b No0035 1921-293 An LR.pdf , c181b No0035 1921-293 An RL.pdf , c181b No0035 1921-293 An RR.pdf c181b No0035 1921-293 Ao LL.pdf , c181b No0035 1921-293 Ao LR.pdf , c181b No0035 1921-293 Ao RL.pdf , c181b No0035 1921-293 Ao RR.pdf c181b No0035 1921-293 Ap LL.pdf , c181b No0035 1921-293 Ap LR.pdf , c181b No0035 1921-293 Ap RL.pdf , c181b No0035 1921-293 Ap RR.pdf	double atmospheric correction was left as is.

Notes

Post-Correlation checks

Residuals





FITS completeness (plist)

				AA	AA	NL	FD	PT	LA	OV	KP	BR	MK	GB
c181b_01D2D	No0001	3C279	3mm_RDBE	o	o	o	o	42	o	o	o	o	66	.
c181b_02D2D	No0002	3C279	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_03D2D	No0003	3C279	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_04D2D	No0004	NRAO530	3mm_RDBE	o	o	o	o	o	o	o	o	.	.	.
c181b_05D2D	No0005	NRAO530	3mm_RDBE	o	o	o	o	o	o	o	o	.	.	.
c181b_06D2D	No0006	NRAO530	3mm_RDBE	o	o	o	o	X	o	o	o	o	.	.

c181b_07D2D	No0007	NRAO530	3mm_RDBE	o	o	o	o	x	o	o	o	o	.	.
c181b_08D2D	No0008	SGR_A	3mm_RDBE	o	o	o	o	x	o	o	o	.	.	.
c181b_09D2D	No0009	SGR_A	3mm_RDBE	o	o	o	o	x	o	o	o	.	.	.
c181b_10D2D	No0010	NRAO530	3mm_RDBE	o	o	o	o	x	o	o	o	o	.	.
c181b_11D2D	No0011	SGR_A	3mm_RDBE	o	o	o	o	x	o	o	o	.	.	.
c181b_12D2D	No0012	SGR_A	3mm_RDBE	.	.	o	o	x	o	o	o	.	.	.
c181b_13D2D	No0013	NRAO530	3mm_RDBE	o	o	o	o	x	o	o	o	o	x	.
c181b_14D2D	No0014	SGR_A	3mm_RDBE	o	o	o	o	x	o	o	o	o	.	.
c181b_15D2D	No0015	NRAO530	3mm_RDBE	o	o	o	o	x	o	o	o	o	x	.
c181b_16D2D	No0016	SGR_A	3mm_RDBE	o	o	o	o	06	o	o	o	o	06	.
c181b_17D2D	No0017	NRAO530	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_18D2D	No0018	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_19D2D	No0019	SGR_A	3mm_RDBE	.	.	o	o	o	o	o	o	o	o	.
c181b_20D2D	No0021	NRAO530	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_21D2D	No0022	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_22D2D	No0023	NRAO530	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_23D2D	No0024	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_24D2D	No0025	NRAO530	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_25D2D	No0026	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_26D2D	No0027	SGR_A	3mm_RDBE	.	.	o	o	o	o	o	o	o	o	.
c181b_27D2D	No0029	NRAO530	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_28D2D	No0030	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_29D2D	No0031	NRAO530	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_30D2D	No0032	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_31D2D	No0033	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_32D2D	No0035	1921-293	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_33D2D	No0036	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_34D2D	No0037	SGR_A	3mm_RDBE	.	.	o	o	o	o	o	o	o	o	o
c181b_35D2D	No0038	NRAO530	3mm_RDBE	x	x	o	o	o	o	o	o	o	o	o
c181b_36D2D	No0039	SGR_A	3mm_RDBE	96	96	o	o	o	o	o	o	o	o	o
c181b_37D2D	No0040	NRAO530	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_38D2D	No0041	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_39D2D	No0042	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_40D2D	No0044	1921-293	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_41D2D	No0045	SGR_A	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_42D2D	No0046	NRAO530	3mm_RDBE	x	x	o	o	o	o	o	o	o	o	o
c181b_43D2D	No0047	SGR_A	3mm_RDBE	x	x	o	o	o	o	o	o	o	o	.
c181b_44D2D	No0048	NRAO530	3mm_RDBE	x	x	o	o	o	o	o	o	o	o	o
c181b_45D2D	No0049	SGR_A	3mm_RDBE	x	x	o	o	o	o	o	o	o	o	.
c181b_46D2D	No0050	SGR_A	3mm_RDBE	x	x	o	o	o	o	o	o	o	o	.
c181b_47D2D	No0052	1921-293	3mm_RDBE	x	x	o	o	o	o	o	o	o	o	o
c181b_48D2D	No0053	SGR_A	3mm_RDBE	x	x	o	o	o	o	o	o	o	o	.
c181b_49D2D	No0054	SGR_A	3mm_RDBE	.	.	o	o	o	o	o	o	o	o	.
c181b_50D2D	No0055	1921-293	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	o
c181b_51D2D	No0056	SGR_A	3mm_RDBE	.	.	.	o	o	o	o	o	o	o	.
c181b_52D2D	No0057	1921-293	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.
c181b_53D2D	No0058	1921-293	3mm_RDBE	o	o	o	o	o	o	o	o	o	o	.