

ML006B Correlation Report

General information

- A part of [C181A](#)
- no KVN participation in this subproject
- Targets: 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/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 12/12/2018.

A **second** data release, with a problem, spotted in the original release, corrected, was made on 31/01/2019.

A **third** data release, rerunning PolConvert with the latest (25.06.2019) ALMA QA2 release, was made on 01/10/2019.

Fringes

| Station | Code | Fringes | Plots | Comments |
|---------|------|---------|---|---|
| Ef | B | yes | <p>Fringe overview of all baselines (all of C181A) including Ef 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. D -- fourfit error, in this case due to mixing upper and lower subbands in the KVN compatibility mode, no real problem with the data.</p> <p>Scans 209, 210, 213-214 are missing from all diagnostic plots due to a difx2mark4 error. They are present in the final correlation products.</p> <p>c181a FRINGE RfAnt Ef LLRR AllSrc.pdf</p> <p>Examples of fourfit fringe plots:</p> <p>c181a_No0199_3C273_AB_LL.pdf, c181a_No0199_3C273_AB_LR.pdf, c181a_No0199_3C273_AB_RL.pdf, c181a_No0199_3C273_AB_RR.pdf</p> <p>c181a_No0208_3C273_AB_LL.pdf, c181a_No0208_3C273_AB_LR.pdf, c181a_No0208_3C273_AB_RL.pdf, c181a_No0208_3C273_AB_RR.pdf</p> <p>Same for all antennas below unless otherwise noted.</p> | In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products. |
| On | X | yes | <p>c181a FRINGE RfAnt On LLRR AllSrc.pdf</p> <p>c181a_No0208_3C273_AX_LL.pdf, c181a_No0208_3C273_AX_LR.pdf, c181a_No0208_3C273_AX_RL.pdf, c181a_No0208_3C273_AX_RR.pdf</p> | In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit |

| Station | Code | Fringes | Plots | Comments |
|---------|------|------------|---|---|
| | | | | error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products. |
| Ys | Y | yes | <p>c181a FRINGE RfAnt Ys LLRR AllSrc.pdf</p> <p>c181a_No0208_3C273_AY_LL.pdf, c181a_No0208_3C273_AY_LR.pdf, c181a_No0208_3C273_AY_RL.pdf, c181a_No0208_3C273_AY_RR.pdf</p> <p>c181a_No0220_3C273_gY_LL.pdf, c181a_No0220_3C273_gY_LR.pdf, no RL or RR fringes</p> | <p>As usual, Ys observed LCP only, but it was also recorded as fake RCP, that's why there are common Ys "right" to other antenna's left fringes.</p> <p>In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products.</p> |
| Mh | Z | yes | <p>c181a FRINGE RfAnt Mh LLRR AllSrc.pdf</p> <p>c181a_No0208_3C273_AZ_LL.pdf, c181a_No0208_3C273_AZ_LR.pdf, c181a_No0208_3C273_AZ_RL.pdf, c181a_No0208_3C273_AZ_RR.pdf</p> | <p>In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots,</p> |

| Station | Code | Fringes | Plots | Comments |
|-------------|------|---------|---|---|
| | | | | but are present in the final correlation products. |
| Pv | P | yes | c181a FRINGE RfAnt Pv LLRR AllSrc.pdf c181a No0208 3C273 AP LL.pdf , c181a No0208 3C273 AP LR.pdf , c181a No0208 3C273 AP RL.pdf , c181a No0208 3C273 AP RR.pdf c181a No0220 3C273 AP LL.pdf , c181a No0220 3C273 AP LR.pdf , c181a No0220 3C273 AP RL.pdf , c181a No0220 3C273 AP RR.pdf c181a No0220 3C273 gP LL.pdf , c181a No0220 3C273 gP LR.pdf , c181a No0220 3C273 gP RL.pdf , c181a No0220 3C273 gP RR.pdf | In the plots EVN is "missing" all the baselines except to ALMA or GLT. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the final correlation products. |
| VLBA: Br | b | yes | c181a FRINGE RfAnt Br LLRR AllSrc.pdf preliminary: c181a No0225 3C273 bg LL.pdf , c181a No0225 3C273 bg LR.pdf , c181a No0225 3C273 bg RL.pdf , c181a No0225 3C273 bg RR.pdf final: c181a No0215 3C273 Ab LL.pdf , c181a No0215 3C273 Ab LR.pdf , c181a No0215 3C273 Ab RL.pdf , c181a No0215 3C273 Ab RR.pdf c181a No0220 3C273 bG LL.pdf , c181a No0220 3C273 bG LR.pdf , c181a No0220 3C273 bG RL.pdf , c181a No0220 3C273 bG RR.pdf | all VLBA stations were starting recording late, software glitch: low data weight, possible other problems |
| VLBA: Fd | f | yes | c181a FRINGE RfAnt Fd LLRR AllSrc.pdf c181a No0208 3C273 Af LL.pdf , c181a No0208 3C273 Af LR.pdf , c181a No0208 3C273 Af RL.pdf , c181a No0208 3C273 Af RR.pdf c181a No0220 3C273 fG LL.pdf , c181a No0220 3C273 fG LR.pdf , c181a No0220 3C273 fG RL.pdf , c181a No0220 3C273 fG RR.pdf c181a No0230 3C273 fp LL.pdf , c181a No0230 3C273 fp LR.pdf , c181a No0230 3C273 fp RL.pdf , c181a No0230 3C273 fp RR.pdf | all VLBA stations were starting recording late, software glitch: low data weight, possible other problems |
| VLBA: Kp | k | yes | c181a FRINGE RfAnt Kp LLRR AllSrc.pdf | all VLBA stations were starting |

| Station | Code | Fringes | Plots | Comments |
|-------------|------|---------|---|---|
| | | | c181a No0230 3C273 kp LL.pdf , c181a No0230 3C273 kp LR.pdf , c181a No0230 3C273 kp RL.pdf , c181a No0230 3C273 kp RR.pdf | recording late, software glitch: low data weight, possible other problems |
| VLBA: La | l | yes | c181a FRINGE RfAnt La LLRR AllSrc.pdf c181a No0230 3C273 lp LL.pdf , c181a No0230 3C273 lp LR.pdf , c181a No0230 3C273 lp RL.pdf , c181a No0230 3C273 lp RR.pdf | all VLBA stations were starting recording late, software glitch: low data weight, possible other problems |
| VLBA: Mk | m | yes | c181a FRINGE RfAnt Mk LLRR AllSrc.pdf c181a No0230 3C273 mp LL.pdf , c181a No0230 3C273 mp RR.pdf , no LR or RL fringes c181a No0220 3C273 Gm LL.pdf , c181a No0220 3C273 Gm RR.pdf , no LR or RL fringes | all VLBA stations were starting recording late, software glitch: low data weight, possible other problems |
| VLBA: Nl | n | yes | c181a FRINGE RfAnt Nl LLRR AllSrc.pdf c181a No0208 3C273 An LL.pdf , c181a No0208 3C273 An LR.pdf , c181a No0208 3C273 An RL.pdf , c181a No0208 3C273 An RR.pdf c181a No0220 3C273 gn LL.pdf , c181a No0220 3C273 gn LR.pdf , c181a No0220 3C273 gn RL.pdf , c181a No0220 3C273 gn RR.pdf c181a No0220 3C273 Gn LL.pdf , c181a No0220 3C273 Gn LR.pdf , c181a No0220 3C273 Gn RL.pdf , c181a No0220 3C273 Gn RR.pdf | all VLBA stations were starting recording late, software glitch: low data weight, possible other problems |
| VLBA: Ov | o | yes | c181a FRINGE RfAnt Ov LLRR AllSrc.pdf c181a No0208 3C273 Ao LL.pdf , c181a No0208 3C273 Ao LR.pdf , c181a No0208 3C273 Ao RL.pdf , c181a No0208 3C273 Ao RR.pdf c181a No0220 3C273 go LL.pdf , c181a No0220 3C273 go LR.pdf , c181a No0220 3C273 go RL.pdf , c181a No0220 3C273 go RR.pdf c181a No0220 3C273 Go LL.pdf , c181a No0220 3C273 Go LR.pdf , c181a No0220 3C273 Go RL.pdf , c181a No0220 3C273 Go RR.pdf | all VLBA stations were starting recording late, software glitch: low data weight, possible other problems |
| VLBA: Pt | p | yes | c181a FRINGE RfAnt Pt LLRR AllSrc.pdf preliminary | all VLBA stations were starting recording late, |

| Station | Code | Fringes | Plots | Comments |
|------------|------|---------|---|---|
| | | | <p>c181a No0225 3C273 gp LL.pdf, c181a No0225 3C273 gp LR.pdf, c181a No0225 3C273 gp RL.pdf, c181a No0225 3C273 gp RR.pdf</p> <p>final:</p> <p>c181a No0208 3C273 Ap LL.pdf, c181a No0208 3C273 Ap LR.pdf, c181a No0208 3C273 Ap RL.pdf, c181a No0208 3C273 Ap RR.pdf</p> <p>c181a No0230 3C273 mp LL.pdf, c181a No0230 3C273 mp RR.pdf, no LR or RL fringes</p> <p>c181a No0230 3C273 kp LL.pdf, c181a No0230 3C273 kp LR.pdf, c181a No0230 3C273 kp RL.pdf, c181a No0230 3C273 kp RR.pdf</p> <p>c181a No0230 3C273 lp LL.pdf, c181a No0230 3C273 lp LR.pdf, c181a No0230 3C273 lp RL.pdf, c181a No0230 3C273 lp RR.pdf</p> <p>c181a No0230 3C273 fp LL.pdf, c181a No0230 3C273 fp LR.pdf, c181a No0230 3C273 fp RL.pdf, c181a No0230 3C273 fp RR.pdf</p> | <p>software glitch: low data weight, possible other problems</p> |
| GBT: Gb | G | yes | <p>c181a FRINGE RfAnt Gb LLRR AllSrc.pdf</p> <p>preliminary:</p> <p>c181a No0225 3C273 Gg LL.pdf, c181a No0225 3C273 Gg LR.pdf, c181a No0225 3C273 Gg RL.pdf, c181a No0225 3C273 Gg RR.pdf</p> <p>final:</p> <p>c181a No0215 3C273 AG LL.pdf, c181a No0215 3C273 AG LR.pdf, c181a No0215 3C273 AG RL.pdf, c181a No0215 3C273 AG RR.pdf c181a No0220 3C273 AG LL.pdf, c181a No0220 3C273 AG LR.pdf, c181a No0220 3C273 AG RL.pdf, c181a No0220 3C273 AG RR.pdf</p> <p>c181a No0220 3C273 Gm LL.pdf, c181a No0220 3C273 Gm RR.pdf, no LR or RL fringes</p> <p>c181a No0220 3C273 Gg LL.pdf, c181a No0220 3C273 Gg LR.pdf, c181a No0220 3C273 Gg RL.pdf, c181a No0220 3C273 Gg RR.pdf</p> <p>c181a No0220 3C273 bG LL.pdf, c181a No0220 3C273 bG LR.pdf, c181a No0220 3C273 bG RL.pdf, c181a No0220 3C273 bG RR.pdf</p> <p>c181a No0220 3C273 Gn LL.pdf, c181a No0220 3C273 Gn LR.pdf, c181a No0220 3C273 Gn RL.pdf, c181a No0220 3C273 Gn RR.pdf</p> <p>c181a No0220 3C273 Go LL.pdf, c181a No0220 3C273 Go LR.pdf, c181a No0220 3C273 Go RL.pdf, c181a No0220 3C273 Go RR.pdf</p> | |

| Station | Code | Fringes | Plots | Comments |
|-------------|------|---------|---|---|
| | | | c181a No0220 3C273 fG LL.pdf , c181a No0220 3C273 fG LR.pdf , c181a No0220 3C273 fG RL.pdf , c181a No0220 3C273 fG RR.pdf | |
| GLT: Gl | g | yes | c181a FRINGE RfAnt Gl LLRR AllSrc.pdf preliminary: c181a No0225 3C273 bg LL.pdf , c181a No0225 3C273 bg LR.pdf , c181a No0225 3C273 bg RL.pdf , c181a No0225 3C273 bg RR.pdf c181a No0225 3C273 Gg LL.pdf , c181a No0225 3C273 Gg LR.pdf , c181a No0225 3C273 Gg RL.pdf , c181a No0225 3C273 Gg RR.pdf c181a No0225 3C273 gp LL.pdf , c181a No0225 3C273 gp LR.pdf , c181a No0225 3C273 gp RL.pdf , c181a No0225 3C273 gp RR.pdf final: c181a No0215 3C273 Ag LL.pdf , c181a No0215 3C273 Ag LR.pdf , c181a No0215 3C273 Ag RL.pdf , c181a No0215 3C273 Ag RR.pdf c181a No0220 3C273 Ag LL.pdf , c181a No0220 3C273 Ag LR.pdf , c181a No0220 3C273 Ag RL.pdf , c181a No0220 3C273 Ag RR.pdf c181a No0220 3C273 gY LL.pdf , c181a No0220 3C273 gY LR.pdf , no RL or RR fringes c181a No0220 3C273 gP LL.pdf , c181a No0220 3C273 gP LR.pdf , c181a No0220 3C273 gP RL.pdf , c181a No0220 3C273 gP RR.pdf c181a No0220 3C273 Gg LL.pdf , c181a No0220 3C273 Gg LR.pdf , c181a No0220 3C273 Gg RL.pdf , c181a No0220 3C273 Gg RR.pdf c181a No0220 3C273 gn LL.pdf , c181a No0220 3C273 gn LR.pdf , c181a No0220 3C273 gn RL.pdf , c181a No0220 3C273 gn RR.pdf c181a No0220 3C273 go LL.pdf , c181a No0220 3C273 go LR.pdf , c181a No0220 3C273 go RL.pdf , c181a No0220 3C273 go RR.pdf | Data analysis has shown that GLT recorded in unknown polarization instead of circular (most probably unknown elliptic). At this moment IT SHOULD NOT BE USED FOR ANY POLARIMETRY and in general dealt with very carefully. |
| ALMA: Aa | A | yes | c181a FRINGE RfAnt Aa LLRR AllSrc.pdf c181a No0199 3C273 AB LL.pdf , c181a No0199 3C273 AB LR.pdf , c181a No0199 3C273 AB RL.pdf , c181a No0199 3C273 AB RR.pdf c181a No0208 3C273 AB LL.pdf , c181a No0208 3C273 AB LR.pdf , c181a No0208 3C273 AB RL.pdf , c181a No0208 3C273 AB RR.pdf | Observed in linear polarization, converted to circular polarization in post-correlation using PolConvert. For technical reasons the atmospheric |

| Station | Code | Fringes | Plots | Comments |
|---------|------|---------|---|--|
| | | | <p> c181a No0208 3C273 Af LL.pdf, c181a No0208 3C273 Af LR.pdf, c181a No0208 3C273 Af RL.pdf, c181a No0208 3C273 Af RR.pdf c181a No0208 3C273 An LL.pdf, c181a No0208 3C273 An LR.pdf, c181a No0208 3C273 An RL.pdf, c181a No0208 3C273 An RR.pdf c181a No0208 3C273 Ao LL.pdf, c181a No0208 3C273 Ao LR.pdf, c181a No0208 3C273 Ao RL.pdf, c181a No0208 3C273 Ao RR.pdf c181a No0208 3C273 Ap LL.pdf, c181a No0208 3C273 Ap LR.pdf, c181a No0208 3C273 Ap RL.pdf, c181a No0208 3C273 Ap RR.pdf c181a No0208 3C273 AP LL.pdf, c181a No0208 3C273 AP LR.pdf, c181a No0208 3C273 AP RL.pdf, c181a No0208 3C273 AP RR.pdf c181a No0208 3C273 AX LL.pdf, c181a No0208 3C273 AX LR.pdf, c181a No0208 3C273 AX RL.pdf, c181a No0208 3C273 AX RR.pdf c181a No0208 3C273 AY LL.pdf, c181a No0208 3C273 AY LR.pdf, c181a No0208 3C273 AY RL.pdf, c181a No0208 3C273 AY RR.pdf c181a No0208 3C273 AZ LL.pdf, c181a No0208 3C273 AZ LR.pdf, c181a No0208 3C273 AZ RL.pdf, c181a No0208 3C273 AZ RR.pdf c181a No0215 3C273 Ab LL.pdf, c181a No0215 3C273 Ab LR.pdf, c181a No0215 3C273 Ab RL.pdf, c181a No0215 3C273 Ab RR.pdf c181a No0215 3C273 Ag LL.pdf, c181a No0215 3C273 Ag LR.pdf, c181a No0215 3C273 Ag RL.pdf, c181a No0215 3C273 Ag RR.pdf c181a No0220 3C273 Ag LL.pdf, c181a No0220 3C273 Ag LR.pdf, c181a No0220 3C273 Ag RL.pdf, c181a No0220 3C273 Ag RR.pdf c181a No0215 3C273 AG LL.pdf, c181a No0215 3C273 AG LR.pdf, c181a No0215 3C273 AG RL.pdf, c181a No0215 3C273 AG RR.pdf c181a No0220 3C273 AG LL.pdf, c181a No0220 3C273 AG LR.pdf, c181a No0220 3C273 AG RL.pdf, c181a No0220 3C273 AG RR.pdf c181a No0220 3C273 AP LL.pdf, c181a No0220 3C273 AP LR.pdf, c181a No0220 3C273 AP RL.pdf, c181a No0220 3C273 AP RR.pdf </p> <p>-----</p> | <p>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 double atmospheric correction was left as is.</p> |

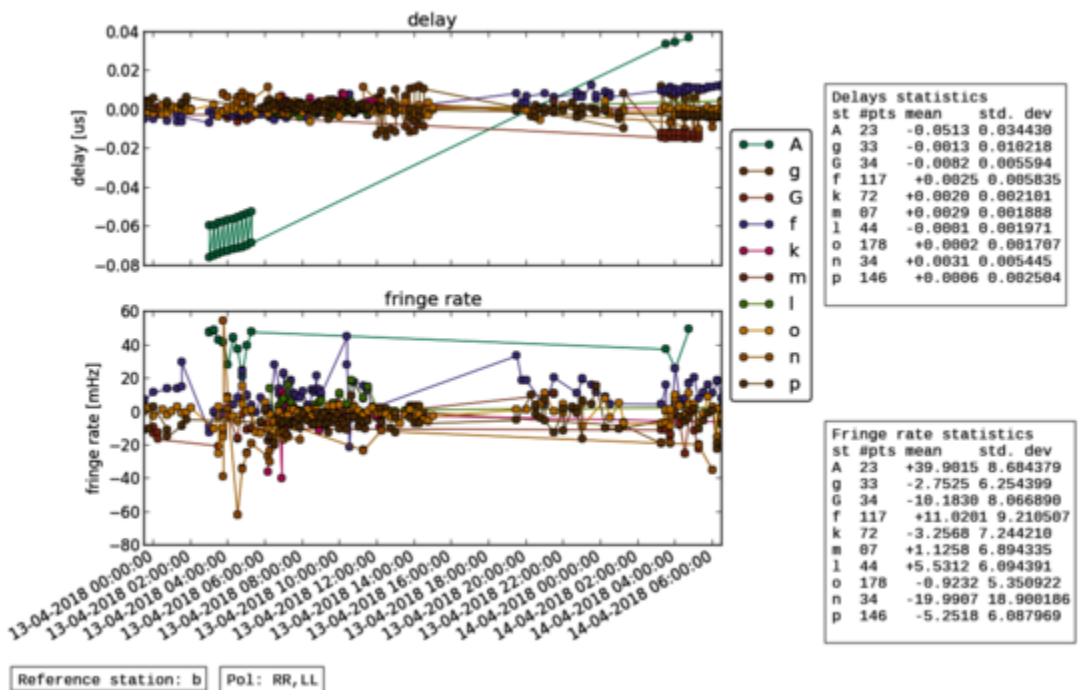
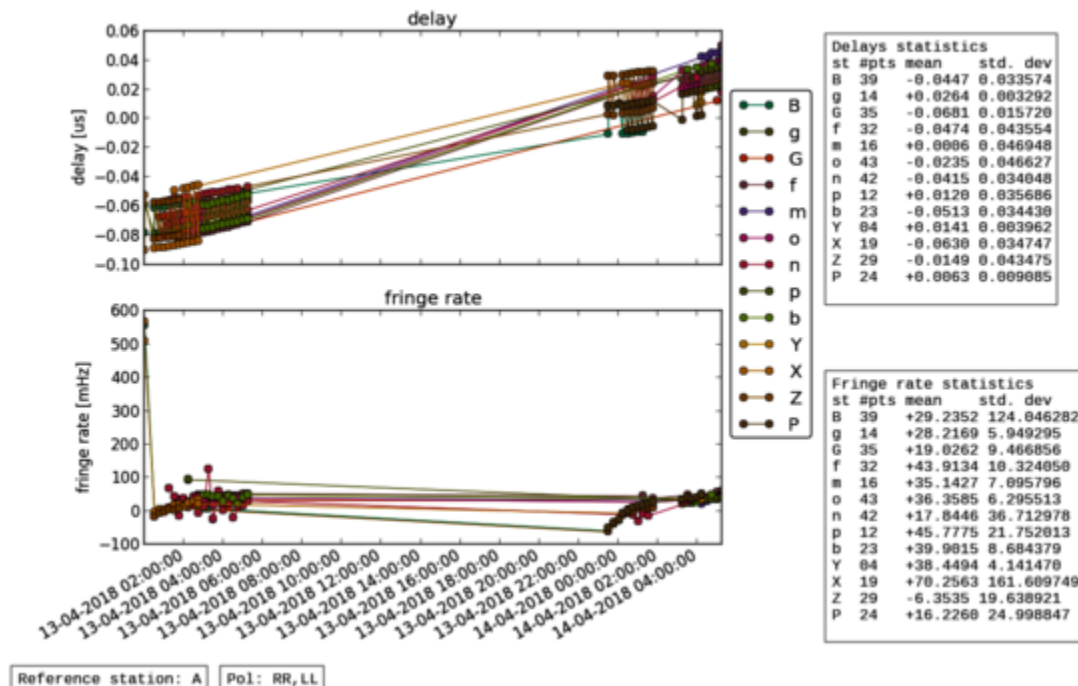
Notes

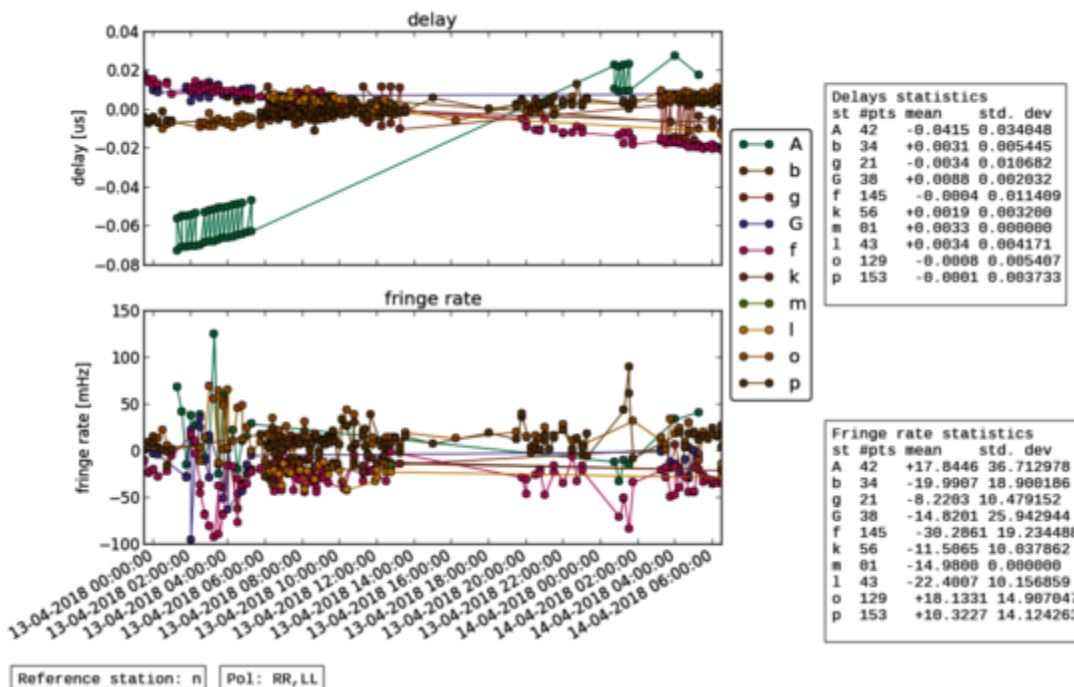
There were problems with some diagnostic plots of this experiment due to yet poorly understood errors of fourfit and other HOPS components. But this does not change the quality of the final correlation products. *(These issues were **fixed** in the second data release of 31/01/2019)*

GLT participated in this session for the first time as a test, and serious problems were detected when analysing its data. Be very carerful when using them.

Post-Correlation checks

Residuals





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

ml006b.fits:

| | | | GB | EF | ON | YS | PV | MH | AA | AA | GL | NL | FD | PT | LA | OV | KP | BR | MK |
|--------------|--------|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| c181a_146D2D | No0159 | 3C273 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_148D2D | No0161 | 3C279 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_150D2D | No0163 | 3C273 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_152D2D | No0165 | 3C279 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_154D2D | No0167 | 3C273 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_156D2D | No0169 | 3C279 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_158D2D | No0171 | 3C273 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_160D2D | No0173 | 3C279 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_162D2D | No0175 | 3C273 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_164D2D | No0177 | 3C279 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_166D2D | No0179 | 3C273 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_168D2D | No0181 | 3C279 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_170D2D | No0183 | 3C273 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_172D2D | No0185 | 3C273 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . |
| c181a_173D2D | No0187 | 3C273 3mm_RDBE | o | o | o | o | o | o | o | o | . | . | . | . | . | . | . | . | . |
| c181a_175D2D | No0189 | 3C273 3mm_RDBE | o | o | o | o | o | o | o | o | . | . | . | . | . | . | . | . | . |

| | | | | | | | | | | | | | | | | | | | | | |
|--------------|--------|-------|----------|----|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|---|
| c181a_177D2D | No0192 | 3C279 | 3mm_RDBE | o | o | o | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . |
| c181a_179D2D | No0194 | 3C273 | 3mm_RDBE | o | o | o | o | o | o | o | o | . | 77 | . | . | . | . | . | . | . | . |
| c181a_181D2D | No0197 | 3C273 | 3mm_RDBE | o | o | o | o | o | o | o | o | . | 80 | . | . | . | . | . | . | . | . |
| c181a_183D2D | No0199 | 3C273 | 3mm_RDBE | o | o | o | o | o | o | o | o | . | 77 | . | . | . | . | . | . | . | . |
| c181a_185D2D | No0202 | 3C273 | 3mm_RDBE | 95 | o | o | o | o | o | o | o | . | 85 | 85 | . | . | . | . | . | . | . |
| c181a_187D2D | No0204 | 3C273 | 3mm_RDBE | o | o | o | o | o | o | o | o | . | 77 | 77 | 77 | 77 | . | . | . | . | . |
| c181a_189D2D | No0207 | 3C273 | 3mm_RDBE | o | o | o | o | o | o | o | o | . | 80 | 80 | 80 | 80 | . | 80 | . | . | . |
| c181a_190D2D | No0208 | 3C273 | 3mm_RDBE | o | o | o | o | o | o | o | o | . | 80 | 80 | 80 | 80 | 80 | 80 | . | . | . |
| c181a_191D2D | No0209 | 3C273 | 3mm_RDBE | o | o | o | o | o | o | o | o | . | 80 | 80 | 80 | 80 | 80 | 80 | 80 | . | . |
| c181a_192D2D | No0210 | 3C273 | 3mm_RDBE | o | o | o | o | o | . | o | o | o | 83 | 83 | 83 | 83 | 77 | 83 | 77 | . | . |
| c181a_193D2D | No0212 | 3C273 | 3mm_RDBE | o | o | o | o | o | . | o | o | o | 71 | 71 | 04 | 71 | 80 | 71 | 80 | . | . |
| c181a_194D2D | No0213 | 3C273 | 3mm_RDBE | o | o | o | o | o | . | o | o | o | 71 | 71 | x | 71 | 80 | 71 | 80 | . | . |
| c181a_195D2D | No0214 | 3C273 | 3mm_RDBE | o | o | o | o | o | . | o | o | o | 71 | 71 | 47 | 71 | 85 | 71 | 85 | . | . |
| c181a_196D2D | No0215 | 3C273 | 3mm_RDBE | o | . | . | o | o | . | o | o | o | 66 | 66 | 44 | 66 | 83 | 66 | 83 | . | . |
| c181a_197D2D | No0217 | 3C273 | 3mm_RDBE | o | . | . | o | o | . | o | o | o | 71 | 71 | 42 | 71 | 71 | 71 | 71 | . | . |
| c181a_198D2D | No0218 | 3C273 | 3mm_RDBE | o | . | . | o | o | . | o | o | o | 71 | 71 | 52 | 71 | 71 | 71 | 71 | . | . |
| c181a_199D2D | No0219 | 3C273 | 3mm_RDBE | o | . | . | o | o | . | o | o | o | 71 | 71 | 09 | 71 | 85 | 71 | 85 | 23 | . |
| c181a_200D2D | No0220 | 3C273 | 3mm_RDBE | o | . | . | o | o | . | o | o | o | 66 | 66 | 66 | 66 | 83 | 66 | 83 | 83 | . |
| c181a_201D2D | No0222 | 3C273 | 3mm_RDBE | o | . | . | . | . | . | o | o | o | 71 | 71 | 71 | 71 | 90 | 71 | 90 | 90 | . |
| c181a_202D2D | No0223 | 3C273 | 3mm_RDBE | o | . | . | . | . | . | o | o | o | 71 | 71 | 71 | 71 | 85 | 71 | 85 | 85 | . |
| c181a_203D2D | No0224 | 3C273 | 3mm_RDBE | o | . | . | . | . | . | o | o | o | 71 | 71 | 71 | 71 | 85 | 71 | 85 | 85 | . |
| c181a_204D2D | No0225 | 3C273 | 3mm_RDBE | o | . | . | . | . | . | o | o | o | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | . |
| c181a_205D2D | No0226 | 3C273 | 3mm_RDBE | . | . | . | . | . | . | . | . | . | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | . |
| c181a_206D2D | No0227 | 3C273 | 3mm_RDBE | . | . | . | . | . | . | . | . | . | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | . |
| c181a_207D2D | No0228 | 3C273 | 3mm_RDBE | . | . | . | . | . | . | . | . | . | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | . |
| c181a_208D2D | No0229 | 3C273 | 3mm_RDBE | . | . | . | . | . | . | . | . | . | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | . |
| c181a_209D2D | No0230 | 3C273 | 3mm_RDBE | . | . | . | . | . | . | . | . | . | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | . |