C181D Correlation Report

## General information

- Includes MG004 and MM013C.
- 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, 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 30/09/2019.

## Fringes

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| Ef | B | **yes** | Fringe overview of all baselines 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.<br><br>Scans 18-20, 24-26, 28-29, 31, 33, 35-36 are missing from all diagnostic plots due to a difx2mark4 error. They are present in the final correlation products.<br><br>c181d_FRINGE_RfAnt_Ef_LLRR_AllSrc.pdf<br><br>Examples of fourfit fringe plots:<br><br>c181d_No0038_1055+018_AB_LL.pdf, c181d_No0038_1055+018_AB_LR.pdf, c181d_No0038_1055+018_AB_RL.pdf, c181d_No0038_1055+018_AB_RR.pdf<br><br>c181d_No0052_2013+370_Bt_RL.pdf, c181d_No0052_2013+370_Bt_RR.pdf,<br><br>no LL or LR fringe<br><br>c181d_No0052_2013+370_Bu_RL.pdf, c181d_No0052_2013+370_Bu_RR.pdf,<br>no LL or LR fringe<br><br>c181d_No0052_2013+370_By_RL.pdf, c181d_No0052_2013+370_By_RR.pdf,<br>no LL or LR fringe<br><br>Same for all antennas below unless otherwise noted. | in the plots Ef is "missing" all the baselines except to ALMA, GLT and KVN. 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. |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| On | X | **yes** | c181d_FRINGE_RfAnt_On_LLRR_AllSrc.pdf<br><br>c181d_No0038_1055+018_AX_LL.pdf, c181d_No0038_1055+018_AX_LR.pdf, c181d_No0038_1055+018_AX_RL.pdf, c181d_No0038_1055+018_AX_RR.pdf<br><br>c181d_No0041_2013+370_tX_LL.pdf, c181d_No0041_2013+370_tX_LR.pdf, c181d_No0041_2013+370_tX_RL.pdf, c181d_No0041_2013+370_tX_RR.pdf<br><br>c181d_No0041_2013+370_uX_LL.pdf, c181d_No0041_2013+370_uX_LR.pdf, c181d_No0041_2013+370_uX_RL.pdf, c181d_No0041_2013+370_uX_RR.pdf<br><br>c181d_No0041_2013+370_yX_LL.pdf, c181d_No0041_2013+370_yX_LR.pdf, c181d_No0041_2013+370_yX_RL.pdf, c181d_No0041_2013+370_yX_RR.pdf | in the plots On is "missing" all the baselines except to ALMA, GLT and KVN. 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. |
| Ys | Y | **yes** | c181d_FRINGE_RfAnt_Ys_LLRR_AllSrc.pdf<br><br>c181d_No0038_1055+018_AY_LL.pdf, c181d_No0038_1055+018_AY_LR.pdf, c181d_No0038_1055+018_AY_RL.pdf, c181d_No0038_1055+018_AY_RR.pdf | 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.<br><br>in the plots Ys is "missing" all the baselines except to ALMA, GLT and KVN. This is due to a fourfit error, the baselines are missing only from some of the diagnostic plots, but are present in the |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| | | | | final correlation products. |
| Mh | Z | **yes** | c181d_FRINGE_RfAnt_Mh_LLRR_AllSrc.pdf<br>c181d_No0023_1055+018_AZ_LL.pdf, c181d_No0023_1055+018_AZ_LR.pdf,<br>c181d_No0023_1055+018_AZ_RL.pdf, c181d_No0023_1055+018_AZ_RR.pdf | in the plots Mh is "missing" all the baselines except to ALMA, GLT and KVN. 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. |
| Pv | P | **yes** | c181d_FRINGE_RfAnt_Pv_LLRR_AllSrc.pdf<br>c181d_No0016_OJ287_AP_LL.pdf, c181d_No0016_OJ287_AP_LR.pdf,<br>c181d_No0016_OJ287_AP_RL.pdf, c181d_No0016_OJ287_AP_RR.pdf<br>c181d_No0016_OJ287_gP_LL.pdf, c181d_No0016_OJ287_gP_LR.pdf,<br>c181d_No0016_OJ287_gP_RL.pdf, c181d_No0016_OJ287_gP_RR.pdf | in the plots Pv is "missing" all the baselines except to ALMA, GLT and KVN. 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** | c181d_FRINGE_RfAnt_Br_LLRR_AllSrc.pdf<br>c181d_No0010_BLLAC_bf_LL.pdf, c181d_No0010_BLLAC_bf_RR.pdf,<br>no LR or RL fringe | Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| | | | c181d_No0012_BLLAC_bl_LL.pdf, c181d_No0012_BLLAC_bl_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0012_BLLAC_bp_LL.pdf, c181d_No0012_BLLAC_bp_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0039_OJ287_Ab_LL.pdf, c181d_No0039_OJ287_Ab_LR.pdf,<br><br>c181d_No0039_OJ287_Ab_RL.pdf, c181d_No0039_OJ287_Ab_RR.pdf | correlation products. |
| VLBA: Fd | f | **yes** | c181d_FRINGE_RfAnt_Fd_LLRR_AllSrc.pdf<br><br>c181d_No0010_BLLAC_bf_LL.pdf, c181d_No0010_BLLAC_bf_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0010_BLLAC_fk_LL.pdf, c181d_No0010_BLLAC_fk_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0010_BLLAC_fl_LL.pdf, c181d_No0010_BLLAC_fl_LR.pdf,<br>c181d_No0010_BLLAC_fl_RL.pdf, c181d_No0010_BLLAC_fl_RR.pdf<br><br>c181d_No0010_BLLAC_fo_LL.pdf, c181d_No0010_BLLAC_fo_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0010_BLLAC_fp_LL.pdf, c181d_No0010_BLLAC_fp_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_fk_LL.pdf, c181d_No0012_BLLAC_fk_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_fl_LL.pdf, c181d_No0012_BLLAC_fl_LR.pdf,<br>np RL fringe, c181d_No0012_BLLAC_fl_RR.pdf<br><br>c181d_No0012_BLLAC_fo_LL.pdf, c181d_No0012_BLLAC_fo_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_fp_LL.pdf, c181d_No0012_BLLAC_fp_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0038_1055+018_Af_LL.pdf, c181d_No0038_1055+018_Af_LR.pdf,<br><br>c181d_No0038_1055+018_Af_RL.pdf, c181d_No0038_1055+018_Af_RR.pdf | Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products. |
| VLBA: Kp | k | **yes** | c181d_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf<br><br>c181d_No0010_BLLAC_fk_LL.pdf, c181d_No0010_BLLAC_fk_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0012_BLLAC_fk_LL.pdf, c181d_No0012_BLLAC_fk_RR.pdf,<br><br>no LR or RL fringe | Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| | | | c181d_No0010_BLLAC_kl_LL.pdf, c181d_No0010_BLLAC_kl_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0010_BLLAC_ko_LL.pdf, c181d_No0010_BLLAC_ko_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0010_BLLAC_kp_LL.pdf, c181d_No0010_BLLAC_kp_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_kl_LL.pdf, c181d_No0012_BLLAC_kl_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_ko_LL.pdf, c181d_No0012_BLLAC_ko_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_kp_LL.pdf, c181d_No0012_BLLAC_kp_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0038_1055+018_Ak_LL.pdf, c181d_No0038_1055+018_Ak_LR.pdf,<br><br>c181d_No0038_1055+018_Ak_RL.pdf, c181d_No0038_1055+018_Ak_RR.pdf | correlation products. |
| VLBA: La | l | **yes** | c181d_FRINGE_RfAnt_La_LLRR_AllSrc.pdf<br><br>c181d_No0010_BLLAC_kl_LL.pdf, c181d_No0010_BLLAC_kl_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_bl_LL.pdf, c181d_No0012_BLLAC_bl_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0010_BLLAC_fl_LL.pdf, c181d_No0010_BLLAC_fl_LR.pdf,<br>c181d_No0010_BLLAC_fl_RL.pdf, c181d_No0010_BLLAC_fl_RR.pdf<br><br>c181d_No0012_BLLAC_fl_LL.pdf, c181d_No0012_BLLAC_fl_LR.pdf,<br>np RL fringe, c181d_No0012_BLLAC_fl_RR.pdf<br><br>c181d_No0012_BLLAC_kl_LL.pdf, c181d_No0012_BLLAC_kl_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0010_BLLAC_lo_LL.pdf, c181d_No0010_BLLAC_lo_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0010_BLLAC_lp_LL.pdf, no LR fringe,<br>c181d_No0010_BLLAC_lp_RL.pdf, c181d_No0010_BLLAC_lp_RR.pdf<br><br>c181d_No0012_BLLAC_lo_LL.pdf, no LR fringe,<br>c181d_No0012_BLLAC_lo_RL.pdf, c181d_No0012_BLLAC_lo_RR.pdf<br><br>c181d_No0012_BLLAC_lp_LL.pdf, c181d_No0012_BLLAC_lp_LR.pdf,<br>c181d_No0012_BLLAC_lp_RL.pdf, c181d_No0012_BLLAC_lp_RR.pdf | Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products. |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| | | | c181d_No0038_1055+018_Al_LL.pdf, c181d_No0038_1055+018_Al_LR.pdf,<br>c181d_No0038_1055+018_Al_RL.pdf, c181d_No0038_1055+018_Al_RR.pdf | |
| VLBA: Mk | m | **yes** | c181d_FRINGE_RfAnt_Mk_LLRR_AllSrc.pdf<br>c181d_No0039_OJ287_Am_LL.pdf, c181d_No0039_OJ287_Am_LR.pdf,<br>c181d_No0039_OJ287_Am_RL.pdf, c181d_No0039_OJ287_Am_RR.pdf | Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products.<br>Taken out for several scans because of USNO observing.<br>General performance in c181d poor, with fringes mostly to ALMA. |
| VLBA: Nl | n | **yes** | c181d_FRINGE_RfAnt_Nl_LLRR_AllSrc.pdf<br>c181d_No0038_1055+018_An_LL.pdf, c181d_No0038_1055+018_An_LR.pdf,<br>c181d_No0038_1055+018_An_RL.pdf, c181d_No0038_1055+018_An_RR.pdf | Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products. |
| VLBA: Ov | o | **yes** | c181d_FRINGE_RfAnt_Ov_LLRR_AllSrc.pdf<br>c181d_No0010_BLLAC_fo_LL.pdf, c181d_No0010_BLLAC_fo_RR.pdf,<br>no LR or RL fringe<br>c181d_No0010_BLLAC_ko_LL.pdf, c181d_No0010_BLLAC_ko_RR.pdf,<br>no LR or RL fringe<br>c181d_No0010_BLLAC_lo_LL.pdf, c181d_No0010_BLLAC_lo_RR.pdf, | Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products. |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| | | | no LR or RL fringe<br>c181d_No0012_BLLAC_fo_LL.pdf, c181d_No0012_BLLAC_fo_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0012_BLLAC_ko_LL.pdf, c181d_No0012_BLLAC_ko_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_lo_LL.pdf, no LR fringe,<br>c181d_No0012_BLLAC_lo_RL.pdf, c181d_No0012_BLLAC_lo_RR.pdf<br><br>c181d_No0010_BLLAC_op_LL.pdf, c181d_No0010_BLLAC_op_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_op_LL.pdf, c181d_No0012_BLLAC_op_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0038_1055+018_Ao_LL.pdf, no LR finge,<br><br>c181d_No0038_1055+018_Ao_RL.pdf, c181d_No0038_1055+018_Ao_RR.pdf | |
| VLBA: Pt | p | **yes** | c181d_FRINGE_RfAnt_Pt_LLRR_AllSrc.pdf<br><br>c181d_No0010_BLLAC_fp_LL.pdf, c181d_No0010_BLLAC_fp_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0010_BLLAC_kp_LL.pdf, c181d_No0010_BLLAC_kp_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0010_BLLAC_lp_LL.pdf, no LR fringe,<br>c181d_No0010_BLLAC_lp_RL.pdf, c181d_No0010_BLLAC_lp_RR.pdf<br><br>c181d_No0010_BLLAC_op_LL.pdf, c181d_No0010_BLLAC_op_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_bp_LL.pdf, c181d_No0012_BLLAC_bp_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0012_BLLAC_fp_LL.pdf, c181d_No0012_BLLAC_fp_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0012_BLLAC_kp_LL.pdf, c181d_No0012_BLLAC_kp_RR.pdf,<br><br>no LR or RL fringe<br>c181d_No0012_BLLAC_lp_LL.pdf, c181d_No0012_BLLAC_lp_LR.pdf,<br>c181d_No0012_BLLAC_lp_RL.pdf, c181d_No0012_BLLAC_lp_RR.pdf<br><br>c181d_No0012_BLLAC_op_LL.pdf, c181d_No0012_BLLAC_op_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0038_1055+018_Ap_LL.pdf, c181d_No0038_1055+018_Ap_LR.pdf, | Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products.<br><br>Taken out for several scans because of USNO observing. |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| | | | c181d_No0038_1055+018_Ap_RL.pdf, c181d_No0038_1055+018_Ap_RR.pdf | |
| GBT: Gb | G | **yes** | c181d_FRINGE_RfAnt_Gb_LLRR_AllSrc.pdf<br>c181d_No0016_OJ287_AG_LL.pdf, c181d_No0016_OJ287_AG_RR.pdf,<br>no LR or RL fringe | Baselines to EVN stations are "missing" due to a fourfit error. They are present in the final correlation products.<br>For most of this experiment: unrecoverable read error of the Mk5 module, logs indicate bad weather, so this loss is considered non-critical |
| GLT: Gl | g | **yes** | c181d_FRINGE_RfAnt_Gl_LLRR_AllSrc.pdf<br>c181d_No0038_1055+018_Ag_LL.pdf, c181d_No0038_1055+018_Ag_LR.pdf,<br>c181d_No0038_1055+018_Ag_RL.pdf, c181d_No0038_1055+018_Ag_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. |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| ALMA: Aa | A | yes | c181d_FRINGE_RfAnt_Aa_LLRR_AllSrc.pdf<br><br>c181d_No0016_OJ287_AG_LL.pdf, c181d_No0016_OJ287_AG_RR.pdf,<br>no LR or RL fringe<br><br>c181d_No0023_1055+018_AZ_LL.pdf, c181d_No0023_1055+018_AZ_LR.pdf,<br>c181d_No0023_1055+018_AZ_RL.pdf, c181d_No0023_1055+018_AZ_RR.pdf<br><br>c181d_No0038_1055+018_AB_LL.pdf, c181d_No0038_1055+018_AB_LR.pdf,<br>c181d_No0038_1055+018_AB_RL.pdf, c181d_No0038_1055+018_AB_RR.pdf<br><br>c181d_No0038_1055+018_Af_LL.pdf, c181d_No0038_1055+018_Af_LR.pdf,<br>c181d_No0038_1055+018_Af_RL.pdf, c181d_No0038_1055+018_Af_RR.pdf<br><br>c181d_No0038_1055+018_Ag_LL.pdf, c181d_No0038_1055+018_Ag_LR.pdf,<br>c181d_No0038_1055+018_Ag_RL.pdf, c181d_No0038_1055+018_Ag_RR.pdf<br><br>c181d_No0038_1055+018_Ak_LL.pdf, c181d_No0038_1055+018_Ak_LR.pdf,<br>c181d_No0038_1055+018_Ak_RL.pdf, c181d_No0038_1055+018_Ak_RR.pdf<br><br>c181d_No0038_1055+018_Al_LL.pdf, c181d_No0038_1055+018_Al_LR.pdf,<br>c181d_No0038_1055+018_Al_RL.pdf, c181d_No0038_1055+018_Al_RR.pdf<br><br>c181d_No0038_1055+018_An_LL.pdf, c181d_No0038_1055+018_An_LR.pdf,<br>c181d_No0038_1055+018_An_RL.pdf, c181d_No0038_1055+018_An_RR.pdf<br><br>c181d_No0038_1055+018_Ao_LL.pdf, no LR finge,<br>c181d_No0038_1055+018_Ao_RL.pdf, c181d_No0038_1055+018_Ao_RR.pdf<br><br>c181d_No0038_1055+018_Ap_LL.pdf, c181d_No0038_1055+018_Ap_LR.pdf,<br>c181d_No0038_1055+018_Ap_RL.pdf, c181d_No0038_1055+018_Ap_RR.pdf<br><br>c181d_No0038_1055+018_AX_LL.pdf, c181d_No0038_1055+018_AX_LR.pdf,<br>c181d_No0038_1055+018_AX_RL.pdf, c181d_No0038_1055+018_AX_RR.pdf<br><br>c181d_No0038_1055+018_AY_LL.pdf, c181d_No0038_1055+018_AY_LR.pdf,<br>c181d_No0038_1055+018_AY_RL.pdf, c181d_No0038_1055+018_AY_RR.pdf<br><br>c181d_No0039_OJ287_Ab_LL.pdf, c181d_No0039_OJ287_Ab_LR.pdf,<br>c181d_No0039_OJ287_Ab_RL.pdf, c181d_No0039_OJ287_Ab_RR.pdf<br><br>c181d_No0039_OJ287_Am_LL.pdf, c181d_No0039_OJ287_Am_LR.pdf,<br>c181d_No0039_OJ287_Am_RL.pdf, c181d_No0039_OJ287_Am_RR.pdf<br><br>---------- | Observed in linear polarization, converted to circular polarization in post-correlation uning 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 double atmospheric correction was left as is. |
| KVN: Kt | t | yes | c181d_FRINGE_RfAnt_Kt_LLRR_AllSrc.pdf | |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| | | | c181d_No0041_2013+370_tu_LL.pdf, c181d_No0041_2013+370_tu_LR.pdf, c181d_No0041_2013+370_tu_RL.pdf, c181d_No0041_2013+370_tu_RR.pdf<br><br>c181d_No0041_2013+370_tX_LL.pdf, c181d_No0041_2013+370_tX_LR.pdf, c181d_No0041_2013+370_tX_RL.pdf, c181d_No0041_2013+370_tX_RR.pdf<br><br>c181d_No0041_2013+370_ty_LL.pdf, c181d_No0041_2013+370_ty_LR.pdf, c181d_No0041_2013+370_ty_RL.pdf, c181d_No0041_2013+370_ty_RR.pdf<br><br>c181d_No0052_2013+370_Bt_RL.pdf, c181d_No0052_2013+370_Bt_RR.pdf, no LL or LR fringe<br><br>c181d_No0087_OJ287_tu_LL.pdf, c181d_No0087_OJ287_tu_LR.pdf, c181d_No0087_OJ287_tu_RL.pdf, c181d_No0087_OJ287_tu_RR.pdf<br><br>c181d_No0087_OJ287_ty_LL.pdf, c181d_No0087_OJ287_ty_LR.pdf, c181d_No0087_OJ287_ty_RL.pdf, c181d_No0087_OJ287_ty_RR.pdf | |
| KVN: Ku | u | **yes** | c181d_FRINGE_RfAnt_Ku_LLRR_AllSrc.pdf<br><br>c181d_No0041_2013+370_tu_LL.pdf, c181d_No0041_2013+370_tu_LR.pdf,<br><br>c181d_No0041_2013+370_tu_RL.pdf, c181d_No0041_2013+370_tu_RR.pdf<br>c181d_No0041_2013+370_uX_LL.pdf, c181d_No0041_2013+370_uX_LR.pdf, c181d_No0041_2013+370_uX_RL.pdf, c181d_No0041_2013+370_uX_RR.pdf<br><br>c181d_No0041_2013+370_uy_LL.pdf, c181d_No0041_2013+370_uy_LR.pdf, c181d_No0041_2013+370_uy_RL.pdf, c181d_No0041_2013+370_uy_RR.pdf<br><br>c181d_No0052_2013+370_Bu_RL.pdf, c181d_No0052_2013+370_Bu_RR.pdf, no LL or LR fringe<br><br>c181d_No0087_OJ287_tu_LL.pdf, c181d_No0087_OJ287_tu_LR.pdf,<br><br>c181d_No0087_OJ287_tu_RL.pdf, c181d_No0087_OJ287_tu_RR.pdf | |
| KVN: Ky | y | **yes** | c181d_FRINGE_RfAnt_Ky_LLRR_AllSrc.pdf<br><br>c181d_No0041_2013+370_ty_LL.pdf, c181d_No0041_2013+370_ty_LR.pdf,<br><br>c181d_No0041_2013+370_ty_RL.pdf, c181d_No0041_2013+370_ty_RR.pdf<br><br>c181d_No0041_2013+370_uy_LL.pdf, c181d_No0041_2013+370_uy_LR.pdf, c181d_No0041_2013+370_uy_RL.pdf, c181d_No0041_2013+370_uy_RR.pdf<br><br>c181d_No0041_2013+370_yX_LL.pdf, c181d_No0041_2013+370_yX_LR.pdf, c181d_No0041_2013+370_yX_RL.pdf, c181d_No0041_2013+370_yX_RR.pdf<br><br>c181d_No0052_2013+370_By_RL.pdf, c181d_No0052_2013+370_By_RR.pdf, no LL or LR fringe | |

| Station | Code | Fringes | Plots | Comments |
|---|---|---|---|---|
| | | | c181d_No0087_OJ287_ty_LL.pdf, c181d_No0087_OJ287_ty_LR.pdf, c181d_No0087_OJ287_ty_RL.pdf, c181d_No0087_OJ287_ty_RR.pdf | |

## Notes

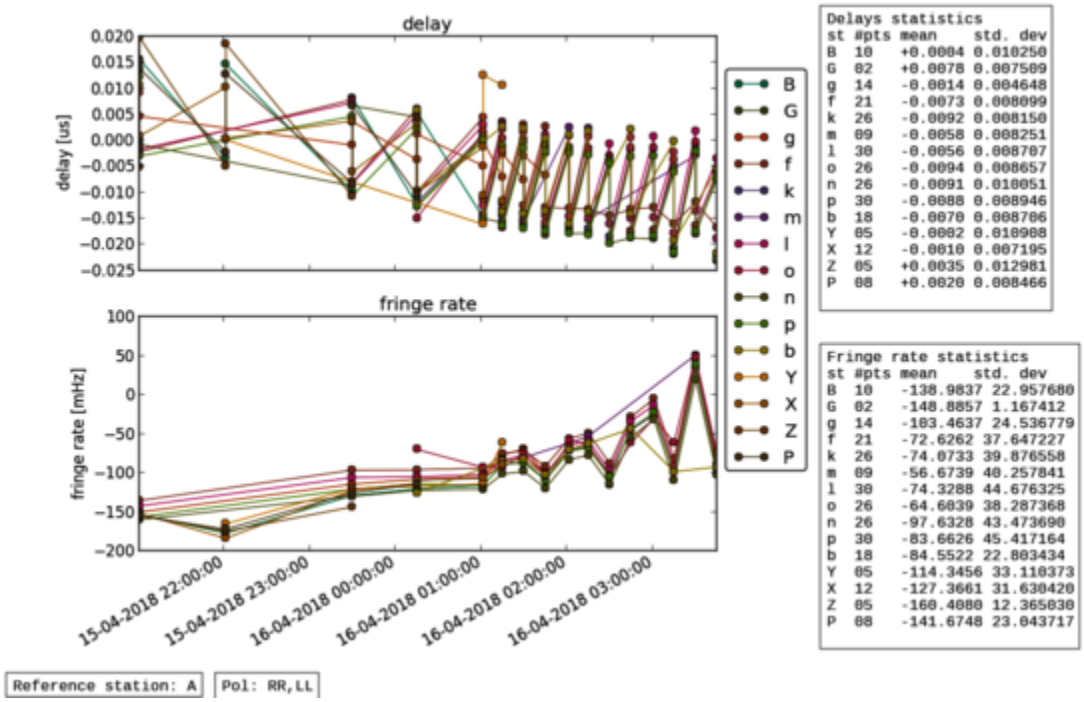
There were problems with some diagnostic plots of this experiment due to yet poorly understood errors of fourfit and other HOPS components. But this does not change the quality of the final correlation products. *(These issues were **fixed** in the second data release of 31/01/2019)*

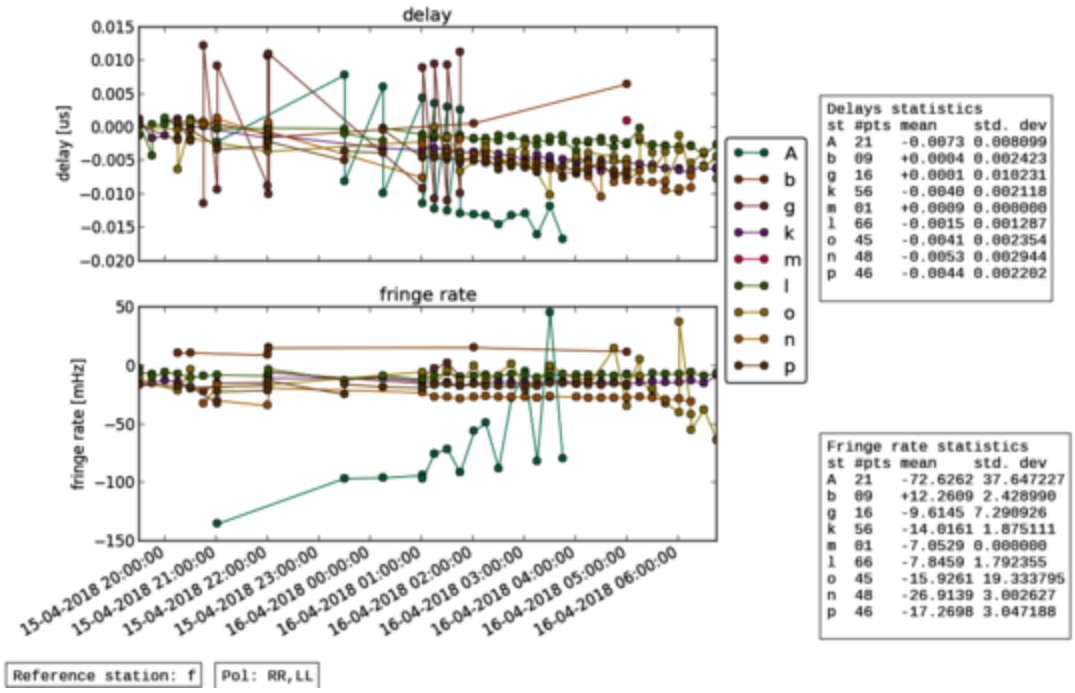
GLT participated in this session for the first time as a test, and serious problems were detected when analysing its data. Be very carerful when using them.

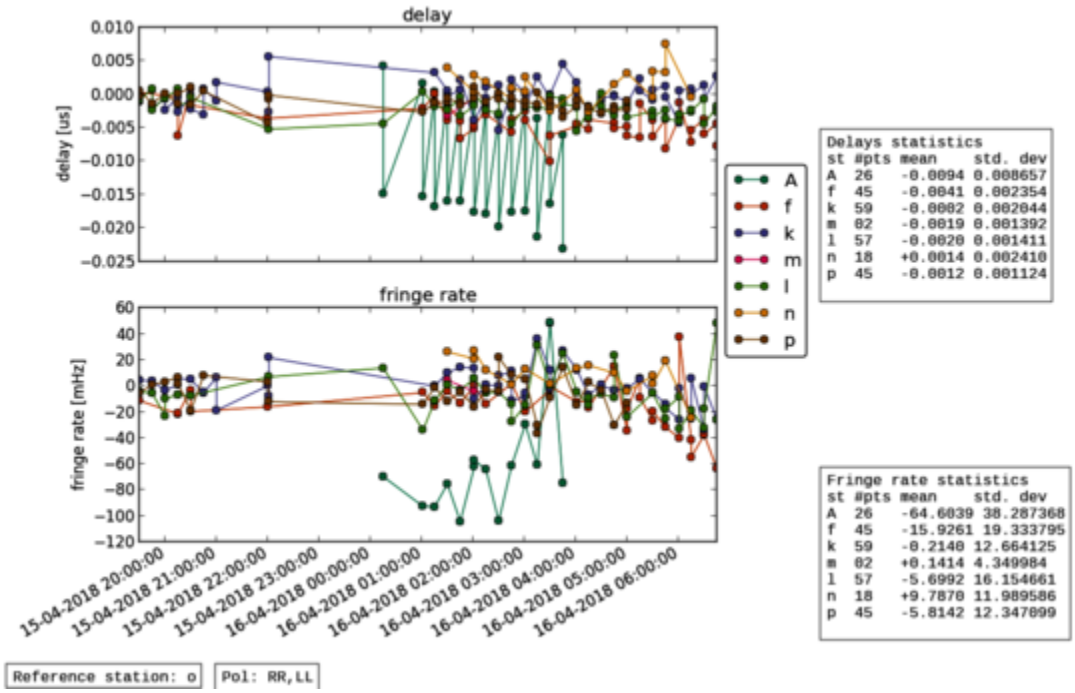
For technical reasons the correlation output is saved as 4 different fits files, see their content below in the pclist section.

## Post-Correlation checks

### Residuals






**FITS completeness (pclist)**

**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
```

**c181d_setup1.fits:**

| | | | GB | EF | ON | PV | YS | MH | GL | NL | FD | PT | LA | OV | KP | BR | MK | AA | AA | KY | KU | KT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| c181d_01D2D | No0002 | OJ287 3mm_RDBE | o | o | x | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . | . |
| c181d_02D2D | No0003 | BLLAC 3mm_RDBE | . | . | . | . | . | . | . | . | o | o | o | o | o | o | o | . | . | . | . | . |
| c181d_03D2D | No0004 | OJ287 3mm_RDBE | o | o | o | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . | . |
| c181d_04D2D | No0005 | BLLAC 3mm_RDBE | . | . | . | . | . | . | . | . | o | o | o | o | o | o | o | . | . | . | . | . |
| c181d_05D2D | No0006 | OJ287 3mm_RDBE | o | o | o | o | o | o | o | o | . | . | . | . | . | . | . | x | x | . | . | . |
| c181d_06D2D | No0007 | BLLAC 3mm_RDBE | . | . | . | . | . | . | . | . | o | o | o | o | o | o | o | . | . | . | . | . |
| c181d_07D2D | No0009 | OJ287 3mm_RDBE | o | o | o | o | o | o | o | o | . | . | . | . | . | . | . | x | x | . | . | . |
| c181d_08D2D | No0010 | BLLAC 3mm_RDBE | . | . | . | . | . | . | . | . | o | o | o | o | o | o | o | . | . | . | . | . |
| c181d_09D2D | No0011 | OJ287 3mm_RDBE | o | o | o | o | o | o | o | o | . | . | . | . | . | . | . | x | x | . | . | . |
| c181d_10D2D | No0012 | BLLAC 3mm_RDBE | . | . | . | . | . | . | . | . | o | o | o | o | o | o | o | . | . | . | . | . |
| c181d_11D2D | No0013 | OJ287 3mm_RDBE | o | o | o | o | o | o | o | o | o | . | o | . | . | . | . | x | x | . | . | . |
| c181d_12D2D | No0014 | BLLAC 3mm_RDBE | . | . | . | . | . | . | . | . | . | o | . | o | o | o | o | . | . | . | . | . |
| c181d_13D2D | No0016 | OJ287 3mm_RDBE | o | o | o | o | o | o | o | o | o | o | o | . | . | . | . | 96 | 96 | . | . | . |
| c181d_14D2D | No0017 | BLLAC 3mm_RDBE | . | . | . | . | . | . | . | . | . | . | . | o | o | o | o | . | . | . | . | . |
| c181d_15D2D | No0018 | OJ287 3mm_RDBE | o | o | o | o | o | o | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_16D2D | No0019 | OJ287 3mm_RDBE | o | o | o | o | o | o | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_18D2D | No0021 | OJ287 3mm_RDBE | . | . | . | . | . | . | o | o | o | o | o | o | o | o | . | . | . | . | . | . |
| c181d_34D2D | No0040 | OJ287 3mm_RDBE | x | . | . | . | . | . | o | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_36D2D | No0042 | 1055+018 3mm_RDBE | x | . | . | . | . | . | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_38D2D | No0045 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_40D2D | No0047 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_42D2D | No0049 | 1055+018 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_44D2D | No0051 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_46D2D | No0054 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_48D2D | No0056 | 1055+018 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_50D2D | No0058 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_52D2D | No0060 | 1055+018 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_54D2D | No0063 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | . | . | . | . | . |
| c181d_56D2D | No0065 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | . | . | . | . | . |
| c181d_58D2D | No0067 | 1055+018 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | . | . | . | . | . |
| c181d_60D2D | No0069 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | . | . | . | . | . |
| c181d_62D2D | No0072 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | o | o | o | o | o | o | . | . | o | o | o |
| c181d_64D2D | No0074 | 1055+018 3mm_RDBE | x | . | . | . | . | . | . | o | o | x | o | o | o | o | 25 | . | . | . | . | . |
| c181d_66D2D | No0076 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | x | o | o | o | o | x | . | . | o | o | o |
| c181d_68D2D | No0078 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | x | o | o | o | o | x | . | . | o | o | o |
| c181d_70D2D | No0081 | 1055+018 3mm_RDBE | x | . | . | . | . | . | . | o | o | x | o | o | o | o | x | . | . | . | . | . |
| c181d_72D2D | No0083 | OJ287 3mm_RDBE | x | . | . | . | . | . | . | o | o | x | o | o | o | o | x | . | . | o | o | o |
| c181d_74D2D | No0085 | OJ287 3mm_RDBE | . | . | . | . | . | . | . | o | o | x | o | o | o | o | x | . | . | o | o | o |
| c181d_76D2D | No0087 | OJ287 3mm_RDBE | . | . | . | . | . | . | . | o | o | x | o | o | o | o | 85 | . | . | o | o | o |

**c181d_setup2.fits:**

| | | | GB | EF | ON | PV | YS | MH | GL | NL | FD | PT | LA | OV | KP | BR | MK | AA | AA | KY | KU | KT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| c181d_17D2D | No0020 | OJ287 3mm_RDBE | o | o | o | o | o | o | o | o | o | o | o | o | o | o | . | o | o | . | . | . |

## c181d_setup3.fits:

| | | | GB | EF | ON | PV | YS | MH | GL | NL | FD | PT | LA | OV | KP | BR | MK | AA | AA | KY | KU | KT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| c181d_20D2D No0023 | 1055+018 | 3mm_RDBE | o | o | o | o | o | o | . | . | . | . | . | . | . | . | . | o | o | . | . | . |
| c181d_21D2D No0024 | OJ287 | 3mm_RDBE | o | o | o | o | o | o | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_22D2D No0025 | OJ287 | 3mm_RDBE | o | o | o | o | o | o | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_23D2D No0026 | OJ287 | 3mm_RDBE | o | o | o | o | o | o | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_24D2D No0028 | OJ287 | 3mm_RDBE | x | o | o | o | o | o | o | o | o | o | o | o | o | o | . | o | o | . | . | . |

## c181d_setup4.fits:

| | | | GB | EF | ON | PV | YS | MH | GL | NL | FD | PT | LA | OV | KP | BR | MK | AA | AA | KY | KU | KT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| c181d_25D2D No0029 | OJ287 | 3mm_RDBE | x | o | o | o | o | o | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_26D2D No0030 | 1055+018 | 3mm_RDBE | x | o | o | o | o | o | o | o | o | o | o | . | . | . | . | o | o | . | . | . |
| c181d_27D2D No0031 | OJ287 | 3mm_RDBE | x | o | o | o | o | o | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_28D2D No0033 | OJ287 | 3mm_RDBE | x | o | o | o | o | o | o | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_29D2D No0034 | 1055+018 | 3mm_RDBE | x | o | o | o | o | . | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_30D2D No0035 | OJ287 | 3mm_RDBE | x | o | o | o | o | o | o | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_31D2D No0036 | OJ287 | 3mm_RDBE | x | o | o | o | o | . | o | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_32D2D No0038 | 1055+018 | 3mm_RDBE | x | o | o | o | o | . | o | o | o | o | o | o | o | o | . | o | o | . | . | . |
| c181d_33D2D No0039 | OJ287 | 3mm_RDBE | x | . | o | o | o | . | o | o | o | o | o | o | o | o | o | o | o | . | . | . |
| c181d_35D2D No0041 | 2013+370 | 3mm_RDBE | . | o | o | 95 | o | o | . | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_37D2D No0043 | 2013+370 | 3mm_RDBE | . | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_39D2D No0046 | BLLAC | 3mm_RDBE | . | o | o | 52 | o | o | o | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_41D2D No0048 | 2013+370 | 3mm_RDBE | . | o | o | 52 | o | o | o | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_43D2D No0050 | BLLAC | 3mm_RDBE | . | o | o | 52 | o | o | o | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_45D2D No0052 | 2013+370 | 3mm_RDBE | . | o | o | 52 | o | o | o | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_47D2D No0055 | BLLAC | 3mm_RDBE | . | o | o | 52 | o | o | o | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_49D2D No0057 | 2013+370 | 3mm_RDBE | . | o | o | 52 | o | o | o | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_51D2D No0059 | BLLAC | 3mm_RDBE | . | o | o | 52 | o | o | o | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_53D2D No0061 | 2013+370 | 3mm_RDBE | . | o | o | 52 | o | o | o | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_55D2D No0064 | BLLAC | 3mm_RDBE | . | o | o | o | o | o | o | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_57D2D No0066 | 2013+370 | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_59D2D No0068 | BLLAC | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_61D2D No0070 | BLLAC | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_63D2D No0073 | 2013+370 | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | . | . | . |
| c181d_65D2D No0075 | BLLAC | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_67D2D No0077 | 2013+370 | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | . | . | . |
| c181d_69D2D No0079 | BLLAC | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | . | . | . |
| c181d_71D2D No0082 | BLLAC | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | o | o | o |
| c181d_73D2D No0084 | 2013+370 | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | . | . | . |
| c181d_75D2D No0086 | BLLAC | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | . | . | . |
| c181d_77D2D No0088 | BLLAC | 3mm_RDBE | . | o | o | o | o | o | x | . | . | . | . | . | . | . | . | . | . | . | . | . |