C181A Correlation Report

General information

- Includes ML006A, ML006B, MM013A.
- 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**	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. Scans 209, 210, 213-214 are missing from all diagnostic plots due to a difx2mark4 error. They are present in the final correlation products. c181a_FRINGE_RfAnt_Ef_LLRR_AllSrc.pdf Examples of fourfit fringe plots: preliminary: c181a_No0055_3C345_BP_LL.pdf, c181a_No0055_3C345_BP_LR.pdf, c181a_No0055_3C345_BP_RL.pdf, c181a_No0055_3C345_BP_RR.pdf. final: c181a_No0035_3C279_AB_LL.pdf, c181a_No0035_3C279_AB_LR.pdf, c181a_No0035_3C279_AB_RL.pdf, c181a_No0035_3C279_AB_RR.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	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.

Station	Code	Fringes	Plots	Comments
			Same for all antennas below unless otherwise noted.	
On	X	yes	c181a_FRINGE_RfAnt_On_LLRR_AllSrc.pdf preliminary: c181a_No0055_3C345_XP_LL.pdf, c181a_No0055_3C345_XP_LR.pdf, c181a_No0055_3C345_XP_RL.pdf, c181a_No0055_3C345_XP_RR.pdf. final: c181a_No0032_3C279_AX_LL.pdf, c181a_No0032_3C279_AX_LR.pdf, c181a_No0032_3C279_AX_RL.pdf, c181a_No0032_3C279_AX_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	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.
Ys	Y	yes	c181a_FRINGE_RfAnt_Ys_LLRR_AllSrc.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_No0220_3C273_gY_LL.pdf, c181a_No0220_3C273_gY_LR.pdf, no RL or RR fringes	late start due to bad weather 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. 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.
Mh	Z	yes	c181a_FRINGE_RfAnt_Mh_LLRR_AllSrc.pdf	In the plots EVN is "missing" all the

Station	Code	Fringes	Plots	Comments
			preliminary: c181a_No0055_3C345_ZP_LL.pdf, c181a_No0055_3C345_ZP_LR.pdf, c181a_No0055_3C345_ZP_RL.pdf, c181a_No0055_3C345_ZP_RR.pdf. final: c181a_No0024_3C279_AZ_LL.pdf, c181a_No0024_3C279_AZ_LR.pdf, c181a_No0024_3C279_AZ_RL.pdf, c181a_No0024_3C279_AZ_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	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.
Pv	P	**yes**	c181a_FRINGE_RfAnt_Pv_LLRR_AllSrc.pdf preliminary: c181a_No0055_3C345_BP_LL.pdf, c181a_No0055_3C345_BP_LR.pdf, c181a_No0055_3C345_BP_RL.pdf, c181a_No0055_3C345_BP_RR.pdf. c181a_No0055_3C345_XP_LL.pdf, c181a_No0055_3C345_XP_LR.pdf, c181a_No0055_3C345_XP_RL.pdf, c181a_No0055_3C345_XP_RR.pdf. c181a_No0055_3C345_ZP_LL.pdf, c181a_No0055_3C345_ZP_LR.pdf, c181a_No0055_3C345_ZP_RL.pdf, c181a_No0055_3C345_ZP_RR.pdf. c181a_No0055_3C345_fP_LL.pdf, c181a_No0055_3C345_fP_RR.pdf, no LR or RL fringes c181a_No0055_3C345_oP_LL.pdf, c181a_No0055_3C345_oP_LR.pdf, no RL fringe, c181a_No0055_3C345_oP_RR.pdf. final: 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	late start due to snow 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_No0039_3C279_bG_LL.pdf, c181a_No0039_3C279_bG_LR.pdf, no RL fringe, c181a_No0039_3C279_bG_RR.pdf	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems

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VLBA: Fd	f	**yes**	c181a_FRINGE_RfAnt_Fd_LLRR_AllSrc.pdf	all VLBA stations were starting recording late,

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VLBA: Kp	k	**yes**	c181a_FRINGE_RfAnt_Kp_LLRR_AllSrc.pdf c181a_No0230_3C273_kp_LL.pdf, c181a_No0230_3C273_kp_LR.pdf, c181a_No0230_3C273_kp_RL.pdf, c181a_No0230_3C273_kp_RR.pdf c181a_No0065_1633+38_bk_LL.pdf, c181a_No0065_1633+38_bk_LR.pdf, no RL fringe, c181a_No0065_1633+38_bk_RR.pdf	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems

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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 c181a_No0065_1633+38_bl_LL.pdf, c181a_No0065_1633+38_bl_LR.pdf, no RL fringe, c181a_No0065_1633+38_bl_RR.pdf c181a_No0114_3C345_gl_LL.pdf, c181a_No0114_3C345_gl_LR.pdf, c181a_No0114_3C345_gl_RL.pdf, c181a_No0114_3C345_gl_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_No0008_OJ287_mp_LL.pdf, no LR, RL or RR fringe c181a_No0047_3C279_Am_LL.pdf, c181a_No0047_3C279_Am_LR.pdf, c181a_No0047_3C279_Am_RL.pdf, c181a_No0047_3C279_Am_RR.pdf c181a_No0047_3C279_fm_LL.pdf, c181a_No0047_3C279_fm_RR.pdf, no LR or RL fringes 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 preliminary: c181a_No0039_3C279_Gn_LL.pdf, c181a_No0039_3C279_Gn_RR.pdf, no LR or RL fringe final: c181a_No0035_3C279_An_LL.pdf, c181a_No0035_3C279_An_LR.pdf, c181a_No0035_3C279_An_RL.pdf, c181a_No0035_3C279_An_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_No0008_OJ287_np_LL.pdf, c181a_No0008_OJ287_np_RR.pdf, no LR or RL fringes	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems

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VLBA: Ov	o	**yes**	c181a_FRINGE_RfAnt_Ov_LLRR_AllSrc.pdf preliminary: c181a_No0055_3C345_oP_LL.pdf, c181a_No0055_3C345_oP_LR.pdf, no RL fringe, c181a_No0055_3C345_oP_RR.pdf. c181a_No0039_3C279_Go_LL.pdf, no LR fringe, c181a_No0039_3C279_Go_RL.pdf, c181a_No0039_3C279_Go_RR.pdf. final: c181a_No0035_3C279_Ao_LL.pdf, c181a_No0035_3C279_Ao_LR.pdf, c181a_No0035_3C279_Ao_RL.pdf, c181a_No0035_3C279_Ao_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_No0008_OJ287_op_LL.pdf, c181a_No0008_OJ287_op_LR.pdf, c181a_No0008_OJ287_op_RL.pdf, c181a_No0008_OJ287_op_RR.pdf c181a_No0010_OJ287_op_LL.pdf, c181a_No0010_OJ287_op_RR.pdf, no LR or RL fringes c181a_No0052_3C279_bo_LL.pdf, no LR fringe, c181a_No0052_3C279_bo_RL.pdf, c181a_No0052_3C279_bo_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

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VLBA: Pt	p	**yes**	c181a_FRINGE_RfAnt_Pt_LLRR_AllSrc.pdf preliminary: c181a_No0120_3C345_gp_LL.pdf, c181a_No0120_3C345_gp_LR.pdf, c181a_No0120_3C345_gp_RL.pdf, c181a_No0120_3C345_gp_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_No0029_3C279_Ap_LL.pdf, c181a_No0029_3C279_Ap_LR.pdf, c181a_No0029_3C279_Ap_RL.pdf, c181a_No0029_3C279_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_No0008_OJ287_bp_LL.pdf, c181a_No0008_OJ287_bp_RR.pdf, no LR or RL fringe c181a_No0008_OJ287_fp_LL.pdf, c181a_No0008_OJ287_fp_LR.pdf, c181a_No0008_OJ287_fp_RL.pdf, c181a_No0008_OJ287_fp_RR.pdf c181a_No0008_OJ287_Gp_LL.pdf, c181a_No0008_OJ287_Gp_LR.pdf, c181a_No0008_OJ287_Gp_RL.pdf, c181a_No0008_OJ287_Gp_RR.pdf c181a_No0010_OJ287_Gp_LL.pdf, c181a_No0010_OJ287_Gp_LR.pdf, no RL fringe, c181a_No0010_OJ287_Gp_RR.pdf c181a_No0008_OJ287_mp_LL.pdf, no LR, RL or RR fringe c181a_No0008_OJ287_np_LL.pdf, c181a_No0008_OJ287_np_RR.pdf, no LR or RL fringes c181a_No0008_OJ287_op_LL.pdf, c181a_No0008_OJ287_op_LR.pdf, c181a_No0008_OJ287_op_RL.pdf, c181a_No0008_OJ287_op_RR.pdf c181a_No0010_OJ287_fp_LL.pdf, c181a_No0010_OJ287_fp_LR.pdf, c181a_No0010_OJ287_fp_RL.pdf, c181a_No0010_OJ287_fp_RR.pdf c181a_No0010_OJ287_np_LL.pdf, c181a_No0010_OJ287_np_RR.pdf, no LR or RL fringes	all VLBA stations were starting recording late, software glitch: low data weight, possible other problems Taken out for several scans because of USNO observing.

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GBT: Gb	G	**yes**	c181a_FRINGE_RfAnt_Gb_LLRR_AllSrc.pdf preliminary: c181a_No0039_3C279_bG_LL.pdf, c181a_No0039_3C279_bG_LR.pdf, no RL fringe, c181a_No0039_3C279_bG_RR.pdf. c181a_No0039_3C279_fG_LL.pdf, c181a_No0039_3C279_fG_LR.pdf, c181a_No0039_3C279_fG_RL.pdf, c181a_No0039_3C279_fG_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_No0039_3C279_Gn_LL.pdf, c181a_No0039_3C279_Gn_RR.pdf, no LR or RL fringe c181a_No0039_3C279_Go_LL.pdf, no LR fringe, c181a_No0039_3C279_Go_RL.pdf, c181a_No0039_3C279_Go_RR.pdf. final: c181a_No0035_3C279_AG_LL.pdf, c181a_No0035_3C279_AG_LR.pdf, c181a_No0035_3C279_AG_RL.pdf, c181a_No0035_3C279_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	

Station	Code	Fringes	Plots	Comments
			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_No0008_OJ287_Gp_LL.pdf, c181a_No0008_OJ287_Gp_LR.pdf, c181a_No0008_OJ287_Gp_RL.pdf, c181a_No0008_OJ287_Gp_RR.pdf c181a_No0010_OJ287_Gp_LL.pdf, c181a_No0010_OJ287_Gp_LR.pdf, no RL fringe, c181a_No0010_OJ287_Gp_RR.pdf c181a_No0052_3C279_bG_LL.pdf, c181a_No0052_3C279_bG_LR.pdf, c181a_No0052_3C279_bG_RL.pdf, c181a_No0052_3C279_bG_RR.pdf c181a_No0220_3C273_Gm_LL.pdf, c181a_No0220_3C273_Gm_RR.pdf, no LR or RL fringes 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_bG_LL.pdf, c181a_No0220_3C273_bG_LR.pdf, c181a_No0220_3C273_bG_RL.pdf, c181a_No0220_3C273_bG_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 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_No0120_3C345_bg_LL.pdf, c181a_No0120_3C345_bg_LR.pdf, c181a_No0120_3C345_bg_RL.pdf, c181a_No0120_3C345_bg_RR.pdf 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_No0120_3C345_gp_LL.pdf, c181a_No0120_3C345_gp_LR.pdf, c181a_No0120_3C345_gp_RL.pdf, c181a_No0120_3C345_gp_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	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
			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 c181a_No0114_3C345_gk_LL.pdf, c181a_No0114_3C345_gk_LR.pdf, c181a_No0114_3C345_gk_RL.pdf, c181a_No0114_3C345_gk_RR.pdf c181a_No0114_3C345_gl_LL.pdf, c181a_No0114_3C345_gl_LR.pdf, c181a_No0114_3C345_gl_RL.pdf, c181a_No0114_3C345_gl_RR.pdf c181a_No0114_3C345_go_LL.pdf, c181a_No0114_3C345_go_LR.pdf, c181a_No0114_3C345_go_RL.pdf, c181a_No0114_3C345_go_RR.pdf c181a_No0114_3C345_gp_LL.pdf, c181a_No0114_3C345_gp_LR.pdf, c181a_No0114_3C345_gp_RL.pdf, c181a_No0114_3C345_gp_RR.pdf	
ALMA: Aa	A	**yes**	c181a_FRINGE_RfAnt_Aa_LLRR_AllSrc.pdf c181a_No0024_3C279_AZ_LL.pdf, c181a_No0024_3C279_AZ_LR.pdf, c181a_No0024_3C279_AZ_RL.pdf, c181a_No0024_3C279_AZ_RR.pdf c181a_No0029_3C279_Ap_LL.pdf, c181a_No0029_3C279_Ap_LR.pdf, c181a_No0029_3C279_Ap_RL.pdf, c181a_No0029_3C279_Ap_RR.pdf c181a_No0032_3C279_AX_LL.pdf, c181a_No0032_3C279_AX_LR.pdf, c181a_No0032_3C279_AX_RL.pdf, c181a_No0032_3C279_AX_RR.pdf c181a_No0035_3C279_AB_LL.pdf, c181a_No0035_3C279_AB_LR.pdf, c181a_No0035_3C279_AB_RL.pdf, c181a_No0035_3C279_AB_RR.pdf	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

Station	Code	Fringes	Plots	Comments
			c181a_No0035_3C279_Ab_LL.pdf, c181a_No0035_3C279_Ab_LR.pdf, c181a_No0035_3C279_Ab_RL.pdf, c181a_No0035_3C279_Ab_RR.pdf c181a_No0035_3C279_Af_LL.pdf, c181a_No0035_3C279_Af_LR.pdf, c181a_No0035_3C279_Af_RL.pdf, c181a_No0035_3C279_Af_RR.pdf c181a_No0035_3C279_AG_LL.pdf, c181a_No0035_3C279_AG_LR.pdf, c181a_No0035_3C279_AG_RL.pdf, c181a_No0035_3C279_AG_RR.pdf c181a_No0035_3C279_An_LL.pdf, c181a_No0035_3C279_An_LR.pdf, c181a_No0035_3C279_An_RL.pdf, c181a_No0035_3C279_An_RR.pdf c181a_No0035_3C279_Ao_LL.pdf, c181a_No0035_3C279_Ao_LR.pdf, c181a_No0035_3C279_Ao_RL.pdf, c181a_No0035_3C279_Ao_RR.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 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	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.

Station	Code	Fringes	Plots	Comments
			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 c181a_No0047_3C279_Am_LL.pdf, c181a_No0047_3C279_Am_LR.pdf, c181a_No0047_3C279_Am_RL.pdf, c181a_No0047_3C279_Am_RR.pdf	
KVN: Kt	t	**no**	c181a_FRINGE_RfAnt_Kt_LLRR_AllSrc.pdf _____	no fringes detected
KVN: Ku	u	**yes**	c181a_FRINGE_RfAnt_Ku_LLRR_AllSrc.pdf c181a_No0134_1633+38_uy_LL.pdf, c181a_No0134_1633+38_uy_LR.pdf, c181a_No0134_1633+38_uy_RL.pdf, c181a_No0134_1633+38_uy_RR.pdf	only weak KuKy fringes in scans 134 and 136
KVN: Ky	y	**yes**	c181a_FRINGE_RfAnt_Ky_LLRR_AllSrc.pdf c181a_No0134_1633+38_uy_LL.pdf, c181a_No0134_1633+38_uy_LR.pdf, c181a_No0134_1633+38_uy_RL.pdf, c181a_No0134_1633+38_uy_RR.pdf	only weak KuKy fringes in scans 134 and 136

Notes

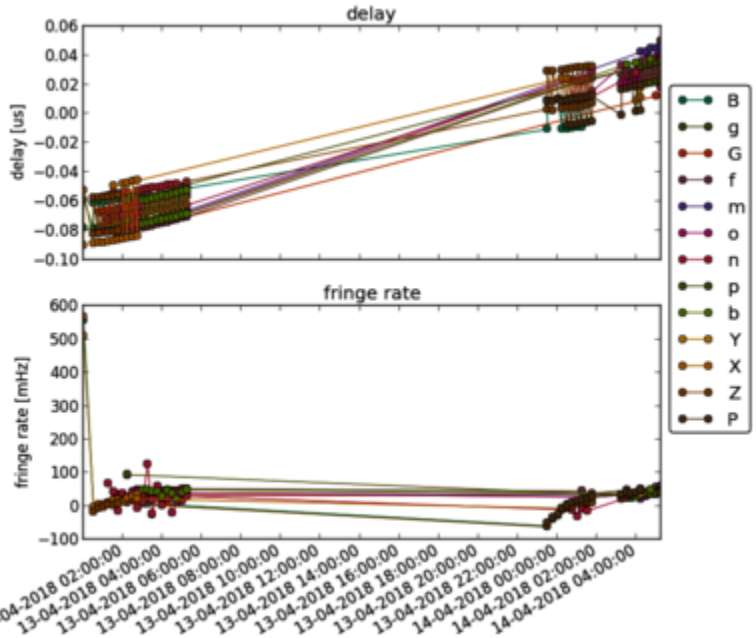
There were problems with some diagnostic plots of this experiment due to yet poorly understood errors of fourfit and other HOPS components. But this does not change the quality of the final correlation product. *(These issues were **fixed** in the second data release of 31/01/2019)*

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 7 different fits files, see their content below in the pclist section.

Post-Correlation checks

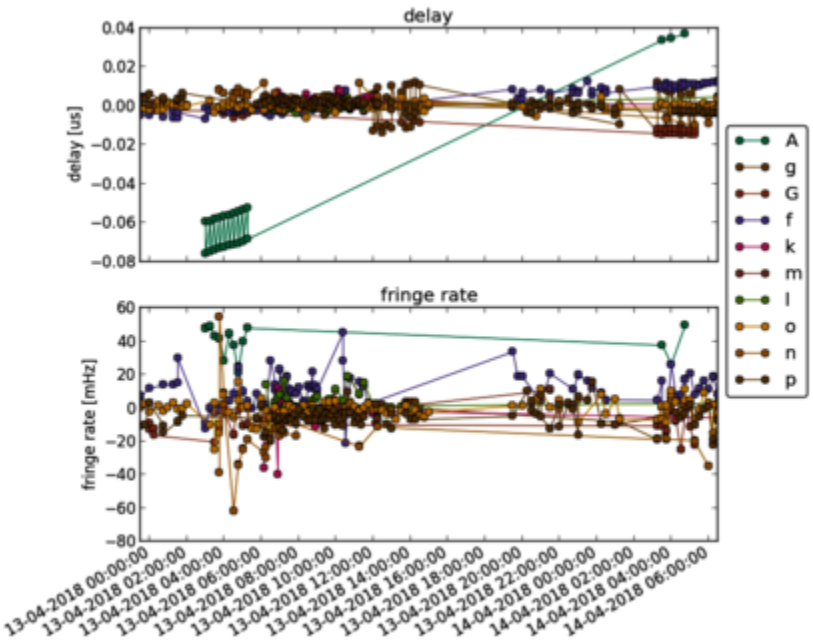
Residuals




```
Delays statistics
st #pts mean    std. dev
B  39   -0.0447 0.033574
g  14   +0.0264 0.003292
G  35   -0.0681 0.015720
f  32   -0.0474 0.043554
m  16   +0.0006 0.046948
o  43   -0.0235 0.046627
n  42   -0.0415 0.034048
p  12   +0.0120 0.035686
b  23   -0.0513 0.034430
Y  04   +0.0141 0.003962
X  19   -0.0630 0.034747
Z  29   -0.0149 0.043475
P  24   +0.0063 0.009085
```

```
Fringe rate statistics
st #pts mean    std. dev
B  39   +29.2352 124.046282
g  14   +28.2169 5.949295
G  35   +19.0262 9.466856
f  32   +43.9134 10.324050
m  16   +35.1427 7.095796
o  43   +36.3585 6.295513
n  42   +17.8446 36.712978
p  12   +45.7775 21.752013
b  23   +39.9015 8.684379
Y  04   +38.4494 4.141470
X  19   +70.2563 161.609749
Z  29   -6.3535 19.638921
P  24   +16.2260 24.998847
```

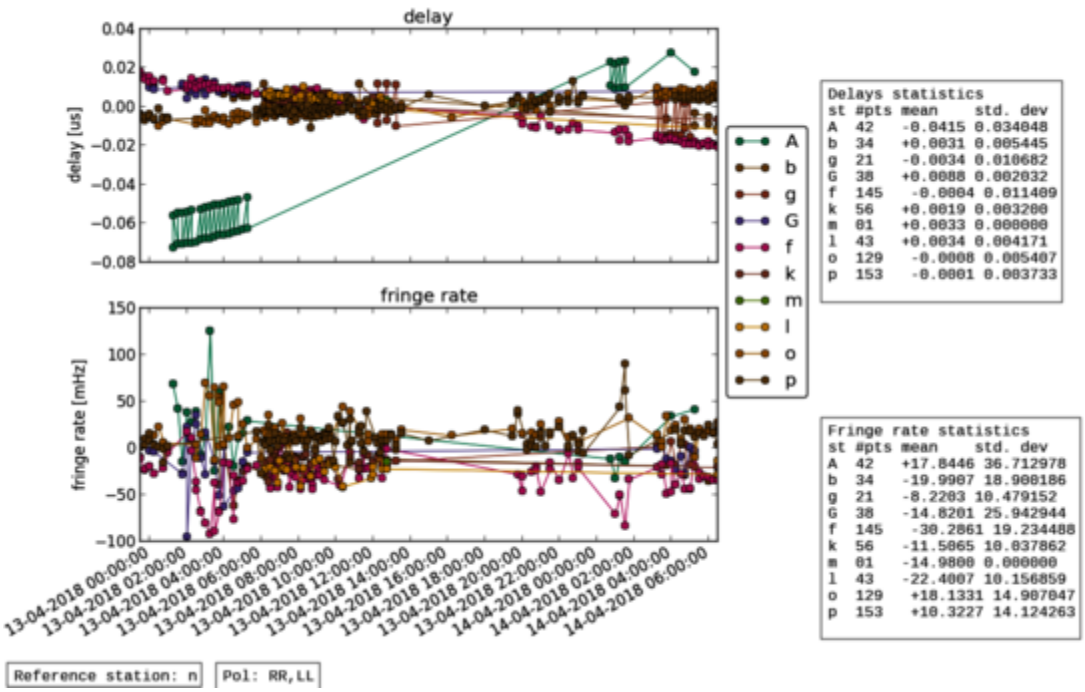
Reference station: A | Pol: RR,LL




```
Delays statistics
st #pts mean    std. dev
A  23   -0.0513 0.034430
g  33   -0.0013 0.010218
G  34   -0.0082 0.005594
f  117   +0.0025 0.005835
k  72   +0.0020 0.002101
m  07   +0.0029 0.001888
l  44   -0.0001 0.001971
o  178   +0.0002 0.001707
n  34   +0.0031 0.005445
p  146   +0.0006 0.002504
```

```
Fringe rate statistics
st #pts mean    std. dev
A  23   +39.9015 8.684379
g  33   -2.7525 6.254399
G  34   -10.1830 8.066890
f  117   +11.0201 9.210507
k  72   -3.2568 7.244210
m  07   +1.1258 6.894335
l  44   +5.5312 6.094391
o  178   -0.9232 5.350922
n  34   -19.9907 18.900186
p  146   -5.2518 6.087969
```

Reference station: b | Pol: RR,LL



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
```

c181a_setup1.fits:

			GB	EF	ON	YS	PV	MH	AA	AA	GL	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181a_001D2D No0002	3C279	3mm_RDBE	.	o	o	x	x	o	x	x	.	.	.	.	.	.	.	.	.	.	.	.
c181a_002D2D No0003	OJ287	3mm_RDBE	o	.	.	.	.	.	.	.	x	76	76	76	76	76	76	76	.	.	.	.
c181a_003D2D No0004	3C279	3mm_RDBE	.	o	o	x	x	o	x	x	.	.	.	.	.	.	.	.	.	.	.	.
c181a_004D2D No0005	OJ287	3mm_RDBE	o	.	.	.	.	.	.	.	x	76	76	76	76	76	76	76	.	.	.	.
c181a_005D2D No0007	3C279	3mm_RDBE	.	o	o	x	x	o	42	42	.	.	.	.	.	.	.	.	.	.	.	.
c181a_006D2D No0008	OJ287	3mm_RDBE	o	.	.	.	.	.	.	.	x	76	76	76	76	85	76	85	85	.	.	.
c181a_007D2D No0009	3C279	3mm_RDBE	.	o	o	x	x	o	x	x	.	.	.	.	.	.	.	.	.	.	.	.
c181a_008D2D No0010	OJ287	3mm_RDBE	o	.	.	.	.	.	.	.	x	66	66	66	66	66	66	66	66	.	.	.
c181a_009D2D No0012	3C279	3mm_RDBE	o	o	o	x	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c181a_010D2D No0013	OJ287	3mm_RDBE	.	.	.	.	.	.	.	.	x	66	66	66	66	66	66	66	66	.	.	.
c181a_011D2D No0015	3C279	3mm_RDBE	o	o	o	x	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c181a_012D2D No0016	OJ287	3mm_RDBE	.	.	.	.	.	.	.	.	x	76	76	76	76	76	76	76	76	.	.	.
c181a_013D2D No0017	3C279	3mm_RDBE	o	o	o	x	x	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.
c181a_014D2D No0018	OJ287	3mm_RDBE	.	.	.	.	.	.	.	.	x	76	76	76	76	76	76	76	76	.	.	.
c181a_015D2D No0019	3C279	3mm_RDBE	o	o	o	x	x	o	o	o	.	80	.	.	.	.	.	.	.	.	.	.
c181a_016D2D No0020	OJ287	3mm_RDBE	.	.	.	.	.	.	.	.	x	.	76	76	76	76	76	76	76	.	.	.

c181a_017D2D	No0022	3C279	3mm_RDBE	o	o	o	x	x	o	o	o	.	66	.	.	.	.	.	.	.	.	.
c181a_018D2D	No0023	OJ287	3mm_RDBE	.	.	.	.	.	.	.	.	x	.	76	76	76	76	76	76	76	.	.
c181a_019D2D	No0024	3C279	3mm_RDBE	o	o	o	x	x	o	o	o	.	80	80	.	.	.	.	.	.	.	.
c181a_020D2D	No0025	OJ287	3mm_RDBE	.	.	.	.	.	.	.	.	x	.	.	76	76	76	76	76	76	.	.
c181a_021D2D	No0027	3C279	3mm_RDBE	o	o	o	x	x	.	o	o	.	66	66	.	.	.	.	.	.	.	.
c181a_022D2D	No0028	OJ287	3mm_RDBE	.	.	.	.	.	.	.	.	x	.	.	76	76	76	76	76	76	.	.
c181a_023D2D	No0029	3C279	3mm_RDBE	o	o	o	x	x	.	o	o	.	80	80	80	80	.	80	.	.	.	.
c181a_024D2D	No0031	3C279	3mm_RDBE	o	o	o	x	x	.	o	o	.	66	66	x	66	80	66	.	.	.	.
c181a_025D2D	No0032	3C279	3mm_RDBE	o	o	o	x	x	.	o	o	.	66	66	x	66	80	66	.	.	.	.
c181a_026D2D	No0034	3C279	3mm_RDBE	o	o	.	x	x	.	o	o	.	66	66	x	66	85	66	85	.	.	.
c181a_027D2D	No0035	3C279	3mm_RDBE	o	o	.	x	x	.	o	o	.	66	66	x	66	85	66	85	.	.	.
c181a_028D2D	No0037	3C279	3mm_RDBE	o	.	.	x	x	.	95	95	.	66	66	x	66	85	66	85	.	.	.
c181a_029D2D	No0038	3C279	3mm_RDBE	o	.	.	x	x	.	o	o	.	66	66	x	66	66	66	66	.	.	.
c181a_030D2D	No0039	3C279	3mm_RDBE	o	.	.	x	x	.	o	o	.	66	66	x	66	66	66	66	.	.	.
c181a_031D2D	No0041	3C345	3mm_RDBE	.	o	o	.	.	o	.	.	x	.	.	.	.	.	.	.	.	.	.
c181a_032D2D	No0042	3C279	3mm_RDBE	o	.	.	.	.	.	o	o	.	66	66	x	66	66	66	66	.	.	.
c181a_033D2D	No0043	3C345	3mm_RDBE	.	o	o	x	x	o	.	.	x	.	.	.	.	.	.	.	.	.	.
c181a_034D2D	No0045	3C279	3mm_RDBE	o	.	.	.	.	.	o	o	.	66	66	x	66	90	66	90	x	.	.
c181a_035D2D	No0046	3C345	3mm_RDBE	.	o	o	x	x	o	.	.	x	.	.	.	.	.	.	.	.	.	.
c181a_036D2D	No0047	3C279	3mm_RDBE	o	.	.	.	.	.	o	o	.	66	66	x	66	90	66	90	90	.	.
c181a_037D2D	No0048	3C345	3mm_RDBE	.	o	o	x	x	o	.	.	x	.	.	.	.	.	.	.	.	.	.
c181a_038D2D	No0050	3C279	3mm_RDBE	o	.	.	.	.	.	o	o	.	66	66	x	66	90	66	90	90	.	.
c181a_039D2D	No0051	3C345	3mm_RDBE	.	o	o	x	x	o	.	.	x	.	.	.	.	.	.	.	.	.	.
c181a_040D2D	No0052	3C279	3mm_RDBE	o	.	.	.	.	.	o	o	.	76	76	x	76	76	76	76	76	.	.
c181a_041D2D	No0054	3C345	3mm_RDBE	.	o	o	x	o	o	.	.	x	.	.	.	.	.	.	.	.	.	.
c181a_042D2D	No0055	3C345	3mm_RDBE	.	o	o	x	o	o	.	.	x	86	86	x	80	80	86	80	.	.	.
c181a_043D2D	No0056	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	33	33	25	33	o	33	o	.	.	.
c181a_044D2D	No0057	1633+38	3mm_RDBE	.	o	o	x	o	o	.	.	x	53	53	53	53	o	53	o	.	.	.
c181a_045D2D	No0058	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	25	25	25	25	o	25	o	.	.	.
c181a_046D2D	No0059	3C345	3mm_RDBE	.	o	o	x	o	o	.	.	x	53	53	53	53	o	53	o	.	.	.
c181a_047D2D	No0060	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	25	25	25	25	o	25	o	.	.	.
c181a_048D2D	No0061	1633+38	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	.	.	.
c181a_049D2D	No0062	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181a_050D2D	No0063	3C345	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	.	.	.
c181a_051D2D	No0064	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181a_053D2D	No0066	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181a_055D2D	No0068	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_057D2D	No0070	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_059D2D	No0072	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_061D2D	No0074	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_063D2D	No0076	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_065D2D	No0078	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_067D2D	No0080	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_069D2D	No0082	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_071D2D	No0084	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_073D2D	No0086	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_075D2D	No0088	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_077D2D	No0090	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_079D2D	No0092	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.
c181a_081D2D	No0094	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.

c181a_083D2D	No0096	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181a_085D2D	No0098	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181a_087D2D	No0100	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181a_088D2D	No0101	1633+38	3mm_RDBE	.	.	.	.	.	.	.	x	66	66	66	66	73	66	73	60	.	.	.
c181a_089D2D	No0102	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181a_090D2D	No0103	3C345	3mm_RDBE	.	.	.	.	.	.	.	x	66	66	66	66	o	66	o	o	.	.	.
c181a_091D2D	No0104	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181a_092D2D	No0105	1633+38	3mm_RDBE	.	.	.	.	.	.	.	x	66	66	66	60	66	66	66	66	.	.	.
c181a_093D2D	No0106	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181a_095D2D	No0108	3C345	3mm_RDBE	.	.	.	.	.	.	.	o	60	60	60	60	66	60	66	66	.	.	.
c181a_096D2D	No0109	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181a_098D2D	No0111	1633+38	3mm_RDBE	.	.	.	.	.	.	.	o	60	60	60	60	60	60	60	60	o	o	o
c181a_099D2D	No0112	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	o	.	.	.
c181a_101D2D	No0114	3C345	3mm_RDBE	.	.	.	.	.	.	.	o	60	60	60	60	60	60	60	60	o	o	o
c181a_102D2D	No0115	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181a_104D2D	No0117	1633+38	3mm_RDBE	.	.	.	.	.	.	.	o	60	60	60	60	60	60	60	60	o	o	o
c181a_105D2D	No0118	1510-089	3mm_RDBE	.	.	.	.	.	.	.	.	.	o	o	o	o	o	o	o	.	.	.
c181a_107D2D	No0120	3C345	3mm_RDBE	.	.	.	.	.	.	.	o	71	71	71	71	71	71	71	71	o	o	o
c181a_109D2D	No0122	1633+38	3mm_RDBE	.	.	.	.	.	.	.	o	80	80	80	80	85	80	85	85	o	o	o
c181a_111D2D	No0124	3C345	3mm_RDBE	.	.	.	.	.	.	.	o	80	80	80	80	85	80	85	85	o	o	o
c181a_113D2D	No0126	1633+38	3mm_RDBE	.	.	.	.	.	.	.	o	.	80	80	80	85	80	85	85	o	o	o
c181a_115D2D	No0128	3C345	3mm_RDBE	.	.	.	.	.	.	.	o	.	80	80	80	85	80	85	85	o	o	o
c181a_117D2D	No0130	1633+38	3mm_RDBE	.	.	.	.	.	.	.	o	.	76	76	76	85	76	85	85	o	o	o
c181a_119D2D	No0132	3C345	3mm_RDBE	.	.	.	.	.	.	.	o	.	76	76	76	85	76	85	85	o	o	o
c181a_121D2D	No0134	1633+38	3mm_RDBE	.	.	.	.	.	.	.	o	.	.	76	.	85	76	85	85	o	o	o
c181a_123D2D	No0136	3C345	3mm_RDBE	.	.	.	.	.	.	.	o	.	.	.	.	85	76	85	85	o	o	o
c181a_124D2D	No0137	0235+164	3mm_RDBE	.	o	x	o	o	o	.	.	.	71	71	71	71	.	.	.	.	.	.
c181a_129D2D	No0142	0235+164	3mm_RDBE	.	o	x	o	o	o	.	.	x	71	71	71	71	85	71	85	.	.	.
c181a_130D2D	No0143	3C120	3mm_RDBE	.	o	x	o	o	o	.	.	.	71	.	.	.	.	.	.	.	.	.
c181a_131D2D	No0144	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	.	71	71	71	71	71	71	.	.	.
c181a_132D2D	No0145	0235+164	3mm_RDBE	.	o	x	o	o	o	.	.	x	76	76	76	71	71	76	71	.	.	.
c181a_140D2D	No0153	0235+164	3mm_RDBE	.	.	.	o	o	.	.	.	x	76	76	76	76	76	76	76	76	.	.
c181a_142D2D	No0155	0235+164	3mm_RDBE	.	.	.	o	o	.	.	.	x	76	76	76	76	76	76	76	76	.	.
c181a_144D2D	No0157	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	83	83	83	83	.	.
c181a_145D2D	No0158	3C120	3mm_RDBE	.	.	.	.	.	.	.	.	x	80	80	80	80	80	80	80	80	.	.
c181a_147D2D	No0160	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	83	83	83	83	.	.
c181a_149D2D	No0162	3C120	3mm_RDBE	.	.	.	.	.	.	.	.	x	80	80	80	80	80	80	80	80	.	.
c181a_151D2D	No0164	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	83	83	83	83	.	.
c181a_153D2D	No0166	3C120	3mm_RDBE	.	.	.	.	.	.	.	.	x	80	80	80	80	80	80	80	80	.	.
c181a_155D2D	No0168	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	83	83	83	83	.	.
c181a_157D2D	No0170	3C120	3mm_RDBE	.	.	.	.	.	.	.	.	x	80	80	80	80	80	80	80	80	.	.
c181a_159D2D	No0172	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	83	83	83	83	.	.
c181a_161D2D	No0174	3C120	3mm_RDBE	.	.	.	.	.	.	.	.	x	80	80	80	80	80	80	80	80	.	.
c181a_163D2D	No0176	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	83	83	83	83	.	.
c181a_165D2D	No0178	3C120	3mm_RDBE	.	.	.	.	.	.	.	.	x	80	80	80	80	80	80	80	80	.	.
c181a_167D2D	No0180	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	83	83	83	83	.	.
c181a_169D2D	No0182	3C120	3mm_RDBE	.	.	.	.	.	.	.	.	x	80	80	80	80	80	80	80	80	.	.
c181a_171D2D	No0184	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	80	80	80	80	83	80	83	83	.	.
c181a_174D2D	No0188	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	86	83	86	86	.	.
c181a_176D2D	No0191	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	86	83	86	86	.	.

c181a_178D2D No0193	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	83	83	83	83	86	83	86	86	.	.	.
c181a_180D2D No0195	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	.	83	83	83	86	83	86	86	.	.	.
c181a_182D2D No0198	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	x	.	83	83	83	86	83	86	86	.	.	.
c181a_184D2D No0201	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	o	.	83	83	83	86	83	86	86	.	.	.
c181a_186D2D No0203	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	o	.	.	83	83	86	83	86	86	.	.	.
c181a_188D2D No0205	0235+164	3mm_RDBE	.	.	.	.	.	.	.	.	o	.	.	.	.	86	83	86	86	.	.	.
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	.	.	.

c181a_setup2.fits:

			GB	EF	ON	YS	PV	MH	AA	AA	GL	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181a_052D2D No0065	1633+38	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	.	.	.	.
c181a_054D2D No0067	3C345	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	.	.	.	.
c181a_056D2D No0069	1633+38	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	.	.	.	.
c181a_058D2D No0071	3C345	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.
c181a_060D2D No0073	1633+38	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.

c181a_setup3.fits:

			GB	EF	ON	YS	PV	MH	AA	AA	GL	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181a_062D2D No0075	3C345	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.
c181a_064D2D No0077	1633+38	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.

c181a_setup4.fits:

			GB	EF	ON	YS	PV	MH	AA	AA	GL	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181a_066D2D No0079	3C345	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.
c181a_068D2D No0081	1633+38	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.
c181a_070D2D No0083	3C345	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.
c181a_072D2D No0085	1633+38	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.

c181a_setup5.fits:

			GB	EF	ON	YS	PV	MH	AA	AA	GL	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181a_074D2D No0087	3C345	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.
c181a_076D2D No0089	1633+38	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.
c181a_078D2D No0091	3C345	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	o	o	o	o	.	.	.

c181a_setup6.fits:

			GB	EF	ON	YS	PV	MH	AA	AA	GL	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181a_080D2D No0093	1633+38	3mm_RDBE	.	o	o	o	o	o	.	.	x	66	66	66	66	66	66	66	66	.	.	.
c181a_082D2D No0095	3C345	3mm_RDBE	.	o	o	o	o	o	.	.	x	o	o	o	o	60	o	60	60	.	.	.
c181a_084D2D No0097	1633+38	3mm_RDBE	.	.	o	o	.	o	.	.	x	o	o	o	o	60	o	60	60	.	.	.
c181a_086D2D No0099	3C345	3mm_RDBE	.	.	o	.	.	o	.	.	x	o	o	o	o	60	o	60	60	.	.	.
c181a_094D2D No0107	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c181a_097D2D No0110	3C120	3mm_RDBE	.	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c181a_100D2D No0113	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c181a_103D2D No0116	3C120	3mm_RDBE	.	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c181a_106D2D No0119	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.

c181a_setup7.fits:

			GB	EF	ON	YS	PV	MH	AA	AA	GL	NL	FD	PT	LA	OV	KP	BR	MK	KY	KU	KT
c181a_108D2D No0121	3C120	3mm_RDBE	.	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c181a_110D2D No0123	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c181a_112D2D No0125	3C120	3mm_RDBE	.	o	o	o	o	o	.	.	.	.	.	.	.	.	.	.	.	.	.	.
c181a_114D2D No0127	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	.	76	.	.	.	.	.	.	.	.	.	.
c181a_116D2D No0129	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	.	76	.	.	.	.	.	.	.	.	.	.
c181a_118D2D No0131	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	.	76	.	.	.	.	.	.	.	.	.	.
c181a_120D2D No0133	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	.	76	.	.	.	.	.	.	.	.	.	.
c181a_122D2D No0135	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	.	95	95	.	95	.	.	.	.	.	.	.
c181a_125D2D No0138	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	x	71	71	71	71	71	71	71	.	.	.	.
c181a_126D2D No0139	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	x	71	71	71	71	71	71	71	.	.	.	.
c181a_127D2D No0140	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	x	71	71	71	71	71	71	71	.	.	.	.
c181a_128D2D No0141	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	x	71	71	71	71	71	71	71	.	.	.	.
c181a_133D2D No0146	3C120	3mm_RDBE	.	o	o	o	o	o	.	.	x	71	71	71	71	.	.	.	.	.	.	.
c181a_134D2D No0147	0235+164	3mm_RDBE	.	o	90	o	o	o	.	.	x	76	76	76	76	71	76	71	.	.	.	.
c181a_135D2D No0148	3C120	3mm_RDBE	.	o	o	o	o	o	.	.	x	71	71	71	71	71	71	.	.	.	.	.
c181a_136D2D No0149	0235+164	3mm_RDBE	.	o	o	o	o	o	.	.	x	76	76	76	76	71	76	71	.	.	.	.
c181a_137D2D No0150	3C120	3mm_RDBE	.	o	o	o	o	o	.	.	x	71	71	71	71	71	71	71	.	.	.	.
c181a_138D2D No0151	0235+164	3mm_RDBE	.	o	o	o	o	.	.	.	x	76	76	76	76	90	76	90	90	.	.	.
c181a_139D2D No0152	3C120	3mm_RDBE	.	o	o	o	o	.	.	.	x	71	71	71	71	71	71	71	.	.	.	.
c181a_141D2D No0154	3C120	3mm_RDBE	.	o	o	o	o	.	.	.	x	71	71	71	71	71	71	71	.	.	.	.
c181a_143D2D No0156	3C120	3mm_RDBE	.	o	o	o	o	.	.	.	x	71	71	71	71	71	71	71	.	.	.	.
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	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	.	.	.	.