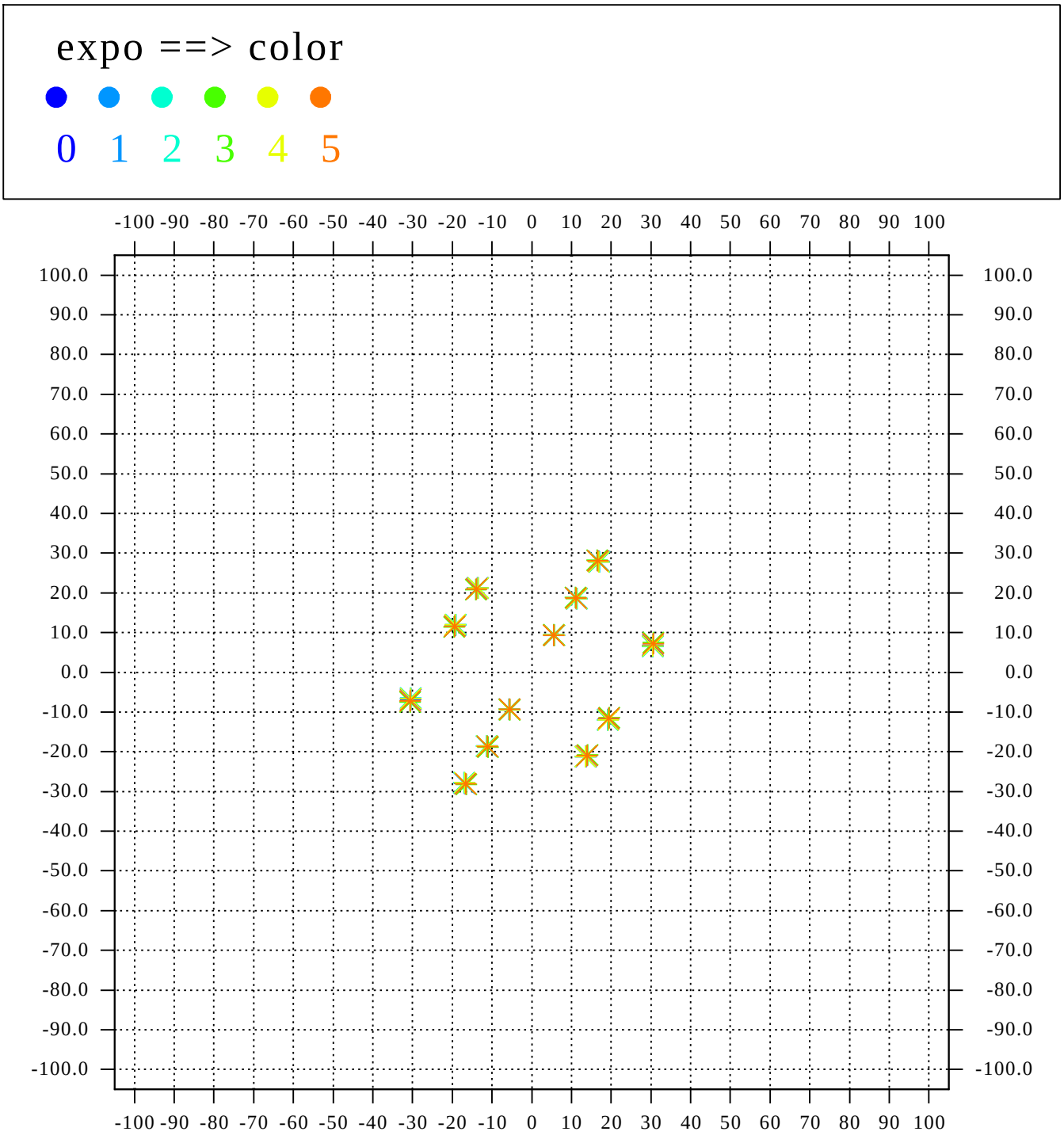
MATISSE OIFITS Quality Control Report

Filename	CALIB_RAW_INT_0001_L.fits
Observing date	2018-03-15T01:38:47.2174
Processing/report date	2018-03-16T16:24:47 2018-07-05T16:51:48
Product category, Chip name	CALIB_RAW_INT, HAWAII-2RG
DIL, PIL, POL, FIL, SFL, BCD1, BCD2	MED, PHOTO, OPEN, LM, HOLE2, OUT, OUT
NDIT x DIT ; time_tot ; nb_expo ; nwave	107 x 0.2 s ; 21.4 s ; 6 ; 1607
Object name	C_PUP [STD]
Object RA, Dec, L, M	116.312274 -37.96856 L = TBD M = TBD
Telescope stations	AT4=C1 AT3=D0 AT2=B2 AT1=A0
Seeing (arcsec) ; Wind (m/s) ; T0 in V (s)	0.39 --> 0.39 ; 3.42 ; 0.011436 --> 0.011436



Col 1 : Baseline
Col 2 : Average squared visibility per baseline (vis^2 ± err) ==> page 3
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis^2	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.105 ± 0.062	0.966	0.012	0.002	0.020	0.000
13	0.101 ± 0.051	0.988	0.005	0.000	0.007	0.000
14	0.037 ± 0.021	0.992	0.003	0.000	0.005	0.000
23	0.258 ± 0.099	0.948	0.003	0.000	0.049	0.000
24	0.026 ± 0.015	0.997	0.000	0.000	0.003	0.000
34	0.047 ± 0.027	0.990	0.001	0.000	0.009	0.000

Col 1 : Baseline
Col 2 : Average visibility amplitude per baseline (vis ± err) ==> page 4
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.009 ± 0.000	1.000	0.000	0.000	0.000	0.000
13	0.025 ± 0.000	0.998	0.002	0.000	0.000	0.000
14	0.006 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.022 ± 0.000	1.000	0.000	0.000	0.000	0.000
24	0.002 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.004 ± 0.000	0.961	0.000	0.000	0.000	0.039

Col 1 : Baseline
Col 2 : Average differential phase per baseline (visphi ± err), in degrees ==> page 6
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis_phi	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	+3.398 ± 543.023	0.849	0.000	0.000	0.151	0.000
13	-0.989 ± 405.871	0.851	0.000	0.000	0.149	0.000
14	-8.958 ± 332.604	0.907	0.000	0.000	0.093	0.000
23	-1.721 ± 542.408	0.870	0.000	0.000	0.130	0.000
24	-6.998 ± 393.430	0.887	0.000	0.000	0.113	0.000
34	-2.925 ± 479.650	0.850	0.000	0.000	0.150	0.000

Average closure phase per triplet (t3phi ± err), in degrees ==> page 5

Triplet	[5 13 10]	[1 5 13]	[1 5 10]	[1 13 10]
Phi(deg)	-18.352 ± 6.821	-7.588 ± 17.060	+3.803 ± 6.499	-0.032 ± 19.373

Exposure number 1

Col 1 : Baseline
Col 2 : Average squared visibility per baseline (vis^2 ± err) ==> page 3
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis^2	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.096 ± 0.066	0.966	0.013	0.001	0.020	0.000
13	0.085 ± 0.051	0.982	0.007	0.000	0.012	0.000
14	0.033 ± 0.022	0.992	0.002	0.000	0.007	0.000
23	0.236 ± 0.102	0.950	0.006	0.000	0.044	0.000
24	0.023 ± 0.015	0.993	0.000	0.000	0.007	0.000
34	0.040 ± 0.027	0.992	0.003	0.000	0.004	0.000

Col 1 : Baseline
Col 2 : Average visibility amplitude per baseline (vis ± err) ==> page 4
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.081 ± 0.000	0.999	0.000	0.001	0.000	0.000
13	0.038 ± 0.000	0.997	0.003	0.000	0.000	0.000
14	0.034 ± 0.000	0.977	0.002	0.000	0.000	0.021
23	0.038 ± 0.000	0.997	0.003	0.000	0.000	0.000
24	0.016 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.037 ± 0.000	1.000	0.000	0.000	0.000	0.000

Col 1 : Baseline
Col 2 : Average differential phase per baseline (visphi ± err), in degrees ==> page 6
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis_phi	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	+5.646 ± 70.056	0.992	0.000	0.000	0.008	0.000
13	-1.383 ± 104.630	0.994	0.000	0.000	0.006	0.000
14	-9.034 ± 93.891	0.992	0.000	0.000	0.008	0.000
23	-3.277 ± 56.685	0.997	0.000	0.000	0.003	0.000
24	-7.901 ± 131.956	0.979	0.000	0.000	0.021	0.000
34	-3.900 ± 104.806	0.987	0.000	0.000	0.013	0.000

Average closure phase per triplet (t3phi ± err), in degrees ==> page 5

Triplet	[5 13 10]	[1 5 13]	[1 5 10]	[1 13 10]
Phi(deg)	-18.706 ± 8.058	-11.217 ± 19.060	+4.704 ± 6.925	-0.193 ± 19.378

Exposure number 2

Col 1 : Baseline
Col 2 : Average squared visibility per baseline (vis^2 ± err) ==> page 3
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis^2	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.031 ± 0.043	0.979	0.008	0.003	0.011	0.000
13	0.028 ± 0.042	0.974	0.009	0.000	0.017	0.000
14	0.021 ± 0.017	0.984	0.004	0.000	0.012	0.000
23	0.053 ± 0.084	0.969	0.005	0.001	0.025	0.000
24	0.006 ± 0.010	0.992	0.002	0.002	0.005	0.000
34	0.011 ± 0.017	0.987	0.005	0.002	0.006	0.000

Col 1 : Baseline
Col 2 : Average visibility amplitude per baseline (vis ± err) ==> page 4
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.034 ± 0.000	0.996	0.004	0.000	0.000	0.000
13	0.084 ± 0.000	0.996	0.004	0.000	0.000	0.000
14	0.022 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.178 ± 0.000	0.987	0.013	0.000	0.000	0.000
24	0.018 ± 0.000	0.999	0.001	0.000	0.000	0.000
34	0.034 ± 0.000	0.998	0.002	0.000	0.000	0.000

Col 1 : Baseline
Col 2 : Average differential phase per baseline (visphi ± err), in degrees ==> page 6
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis_phi	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	+4.807 ± 78.834	0.992	0.000	0.000	0.008	0.000
13	-1.009 ± 64.141	0.996	0.000	0.000	0.004	0.000
14	-8.712 ± 714.729	0.988	0.000	0.000	0.012	0.000
23	-2.815 ± 51.747	0.991	0.000	0.000	0.009	0.000
24	-8.613 ± 221.370	0.950	0.000	0.000	0.050	0.000
34	-3.831 ± 88.049	0.990	0.000	0.000	0.010	0.000

Average closure phase per triplet (t3phi ± err), in degrees ==> page 5

Triplet	[5 13 10]	[1 5 13]	[1 5 10]	[1 13 10]
Phi(deg)	-16.595 ± 22.977	-12.960 ± 41.297	+2.914 ± 24.450	-0.441 ± 46.044

Exposure number 3

Col 1 : Baseline
Col 2 : Average squared visibility per baseline (vis^2 ± err) ==> page 3
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis^2	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.099 ± 0.068	0.946	0.011	0.003	0.039	0.000
13	0.085 ± 0.056	0.959	0.008	0.000	0.033	0.000
14	0.031 ± 0.025	0.987	0.004	0.002	0.008	0.000
23	0.201 ± 0.096	0.920	0.007	0.004	0.069	0.000
24	0.023 ± 0.020	0.990	0.003	0.000	0.008	0.000
34	0.041 ± 0.032	0.982	0.003	0.000	0.014	0.000

Col 1 : Baseline
Col 2 : Average visibility amplitude per baseline (vis ± err) ==> page 4
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.036 ± 0.000	1.000	0.000	0.000	0.000	0.000
13	0.093 ± 0.000	0.997	0.003	0.000	0.000	0.000
14	0.032 ± 0.000	0.999	0.001	0.000	0.000	0.000
23	0.062 ± 0.000	0.999	0.001	0.000	0.000	0.000
24	0.012 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.012 ± 0.000	1.000	0.000	0.000	0.000	0.000

Col 1 : Baseline
Col 2 : Average differential phase per baseline (visphi ± err), in degrees ==> page 6
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis_phi	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	+8.022 ± 81.355	0.985	0.000	0.000	0.015	0.000
13	+0.683 ± 58.854	0.988	0.000	0.000	0.012	0.000
14	-13.406 ± 85.996	0.986	0.000	0.000	0.014	0.000
23	-4.357 ± 48.845	0.991	0.000	0.000	0.009	0.000
24	-12.532 ± 139.465	0.975	0.000	0.000	0.025	0.000
34	-3.629 ± 64.011	0.991	0.000	0.000	0.009	0.000

Average closure phase per triplet (t3phi ± err), in degrees ==> page 5

Triplet	[5 13 10]	[1 5 13]	[1 5 10]	[1 13 10]
Phi(deg)	-15.995 ± 11.989	-8.011 ± 30.485	+4.014 ± 10.925	+2.413 ± 29.672

Col 1 : Baseline
Col 2 : Average squared visibility per baseline (vis^2 ± err) ==> page 3
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis^2	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.091 ± 0.062	0.952	0.011	0.003	0.034	0.000
13	0.094 ± 0.062	0.962	0.008	0.001	0.029	0.000
14	0.033 ± 0.024	0.979	0.011	0.000	0.010	0.000
23	0.224 ± 0.096	0.876	0.011	0.002	0.112	0.000
24	0.022 ± 0.016	0.994	0.002	0.000	0.004	0.000
34	0.045 ± 0.032	0.984	0.004	0.002	0.010	0.000

Col 1 : Baseline
Col 2 : Average visibility amplitude per baseline (vis ± err) ==> page 4
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.100 ± 0.000	0.989	0.004	0.001	0.000	0.006
13	0.066 ± 0.000	0.996	0.004	0.000	0.000	0.000
14	0.024 ± 0.000	0.999	0.001	0.000	0.000	0.000
23	0.058 ± 0.000	0.997	0.003	0.001	0.000	0.000
24	0.007 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.030 ± 0.000	1.000	0.000	0.000	0.000	0.000

Col 1 : Baseline
Col 2 : Average differential phase per baseline (visphi ± err), in degrees ==> page 6
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis_phi	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	+5.427 ± 79.424	0.992	0.000	0.000	0.008	0.000
13	-0.375 ± 63.584	0.997	0.000	0.000	0.003	0.000
14	-8.972 ± 124.067	0.985	0.000	0.000	0.015	0.000
23	-2.890 ± 58.843	0.997	0.000	0.000	0.003	0.000
24	-7.265 ± 155.335	0.972	0.000	0.000	0.028	0.000
34	-4.024 ± 81.329	0.989	0.000	0.000	0.011	0.000

Average closure phase per triplet (t3phi ± err), in degrees ==> page 5

Triplet	[5 13 10]	[1 5 13]	[1 5 10]	[1 13 10]
Phi(deg)	-15.802 ± 12.266	-6.489 ± 27.060	+5.557 ± 11.789	+0.767 ± 28.304

Col 1 : Baseline
Col 2 : Average squared visibility per baseline (vis^2 ± err) ==> page 3
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis^2	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.103 ± 0.069	0.943	0.017	0.002	0.039	0.000
13	0.090 ± 0.064	0.960	0.009	0.000	0.031	0.000
14	0.031 ± 0.022	0.982	0.007	0.001	0.010	0.000
23	0.222 ± 0.110	0.884	0.014	0.001	0.101	0.000
24	0.024 ± 0.019	0.996	0.003	0.000	0.002	0.000
34	0.040 ± 0.033	0.980	0.003	0.001	0.016	0.000

Col 1 : Baseline
Col 2 : Average visibility amplitude per baseline (vis ± err) ==> page 4
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.044 ± 0.000	0.999	0.001	0.000	0.000	0.000
13	0.043 ± 0.000	0.999	0.001	0.000	0.000	0.000
14	0.013 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.228 ± 0.000	0.991	0.009	0.000	0.000	0.000
24	0.004 ± 0.000	0.183	0.000	0.000	0.000	0.817
34	0.016 ± 0.000	1.000	0.000	0.000	0.000	0.000

Col 1 : Baseline
Col 2 : Average differential phase per baseline (visphi ± err), in degrees ==> page 6
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis_phi	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	+6.631 ± 115.911	0.981	0.000	0.000	0.019	0.000
13	+0.146 ± 73.927	0.992	0.000	0.000	0.008	0.000
14	-10.458 ± 89.138	0.987	0.000	0.000	0.013	0.000
23	-3.652 ± 63.851	0.983	0.000	0.000	0.017	0.000
24	-10.519 ± 151.214	0.961	0.000	0.000	0.039	0.000
34	-4.140 ± 79.474	0.987	0.000	0.000	0.013	0.000

Average closure phase per triplet (t3phi ± err), in degrees ==> page 5

Triplet	[5 13 10]	[1 5 13]	[1 5 10]	[1 13 10]
Phi(deg)	-16.615 ± 12.463	-13.385 ± 30.340	+4.850 ± 12.399	+2.454 ± 28.789

Summary of all exposures

Col 1 : Baseline
Col 2 : Average squared visibility per baseline (vis^2 ± err) ==> page 3
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis^2	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.088 ± 0.026 ± 0.062	0.959	0.012	0.002	0.027	0.000
13	0.080 ± 0.024 ± 0.054	0.971	0.008	0.000	0.021	0.000
14	0.031 ± 0.005 ± 0.022	0.986	0.005	0.000	0.009	0.000
23	0.199 ± 0.068 ± 0.098	0.925	0.008	0.001	0.066	0.000
24	0.020 ± 0.007 ± 0.016	0.994	0.001	0.000	0.005	0.000
34	0.037 ± 0.012 ± 0.028	0.986	0.003	0.001	0.010	0.000

Col 1 : Baseline
Col 2 : Average visibility amplitude per baseline (vis ± err) ==> page 4
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	0.051 ± 0.031 ± 0.000	0.997	0.002	0.000	0.000	0.001
13	0.058 ± 0.025 ± 0.000	0.997	0.003	0.000	0.000	0.000
14	0.022 ± 0.010 ± 0.000	0.996	0.001	0.000	0.000	0.003
23	0.098 ± 0.077 ± 0.000	0.995	0.005	0.000	0.000	0.000
24	0.010 ± 0.006 ± 0.000	0.864	0.000	0.000	0.000	0.136
34	0.022 ± 0.012 ± 0.000	0.993	0.000	0.000	0.000	0.007

Col 1 : Baseline
Col 2 : Average differential phase per baseline (visphi ± err), in degrees ==> page 6
Cols 3 --> 7 : Fraction of points Ok , points with value<limit_min , value>limit_max
points with error(err)>limit_err , error(tol)>limit_tol

Baseline	vis_phi	frac_ok	frac_min	frac_max	frac_err	frac_tol
12	+5.655 ± 1.439 ± 161.434	0.965	0.000	0.000	0.035	0.000
13	-0.488 ± 0.720 ± 128.501	0.969	0.000	0.000	0.031	0.000
14	-9.923 ± 1.659 ± 240.071	0.974	0.000	0.000	0.026	0.000
23	-3.119 ± 0.810 ± 137.063	0.971	0.000	0.000	0.029	0.000
24	-8.971 ± 1.964 ± 198.795	0.954	0.000	0.000	0.046	0.000
34	-3.742 ± 0.398 ± 149.553	0.966	0.000	0.000	0.034	0.000

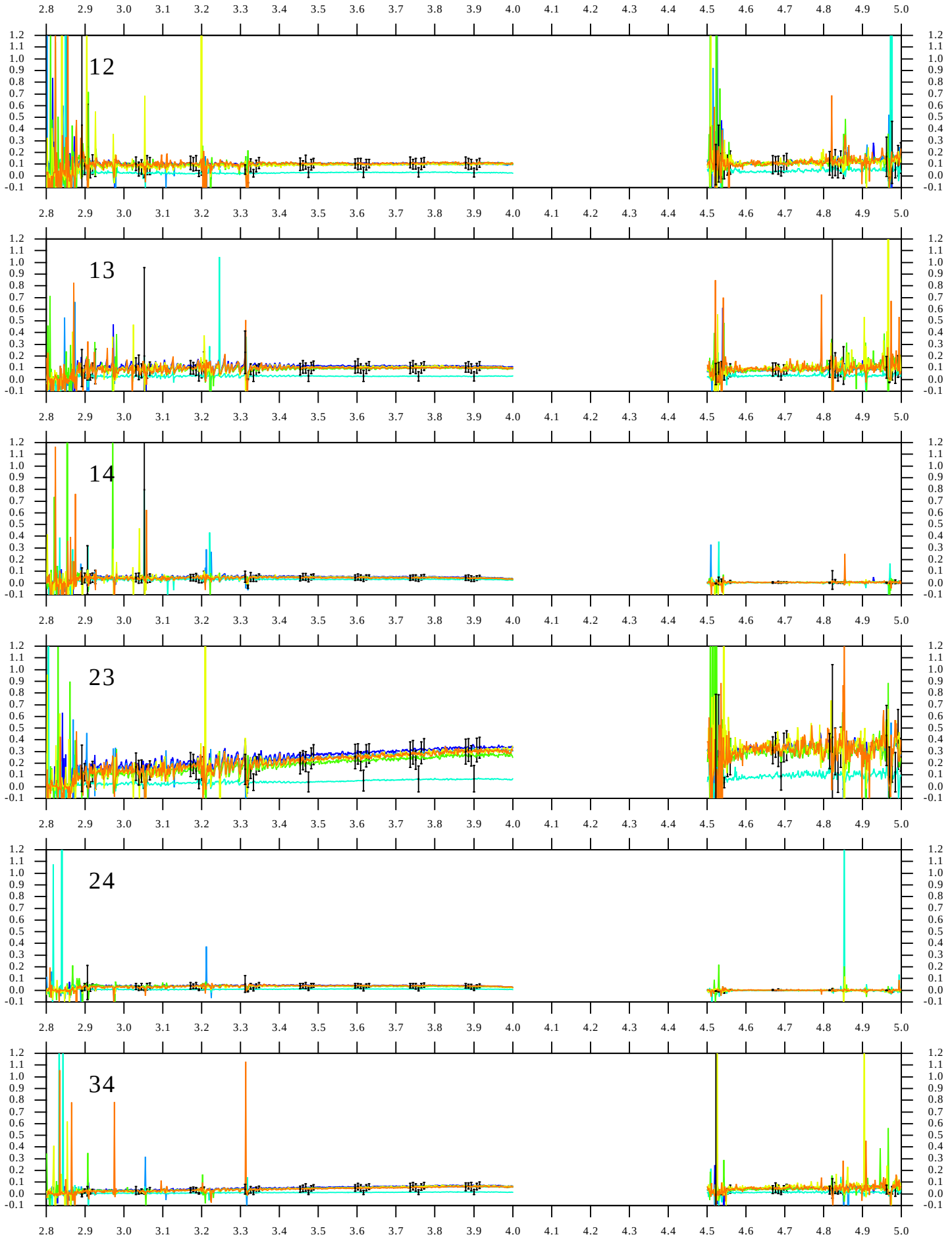
Average closure phase per triplet (t3phi ± err), in degrees ==> page 5

Triplet	[5 13 10]	[1 5 13]	[1 5 10]	[1 13 10]
Phi(deg)	-17.011 ± 1.118 ± 12.429	-9.942 ± 2.701 ± 27.550	+4.307 ± 0.846 ± 12.165	+0.828 ± 1.194 ± 28.593

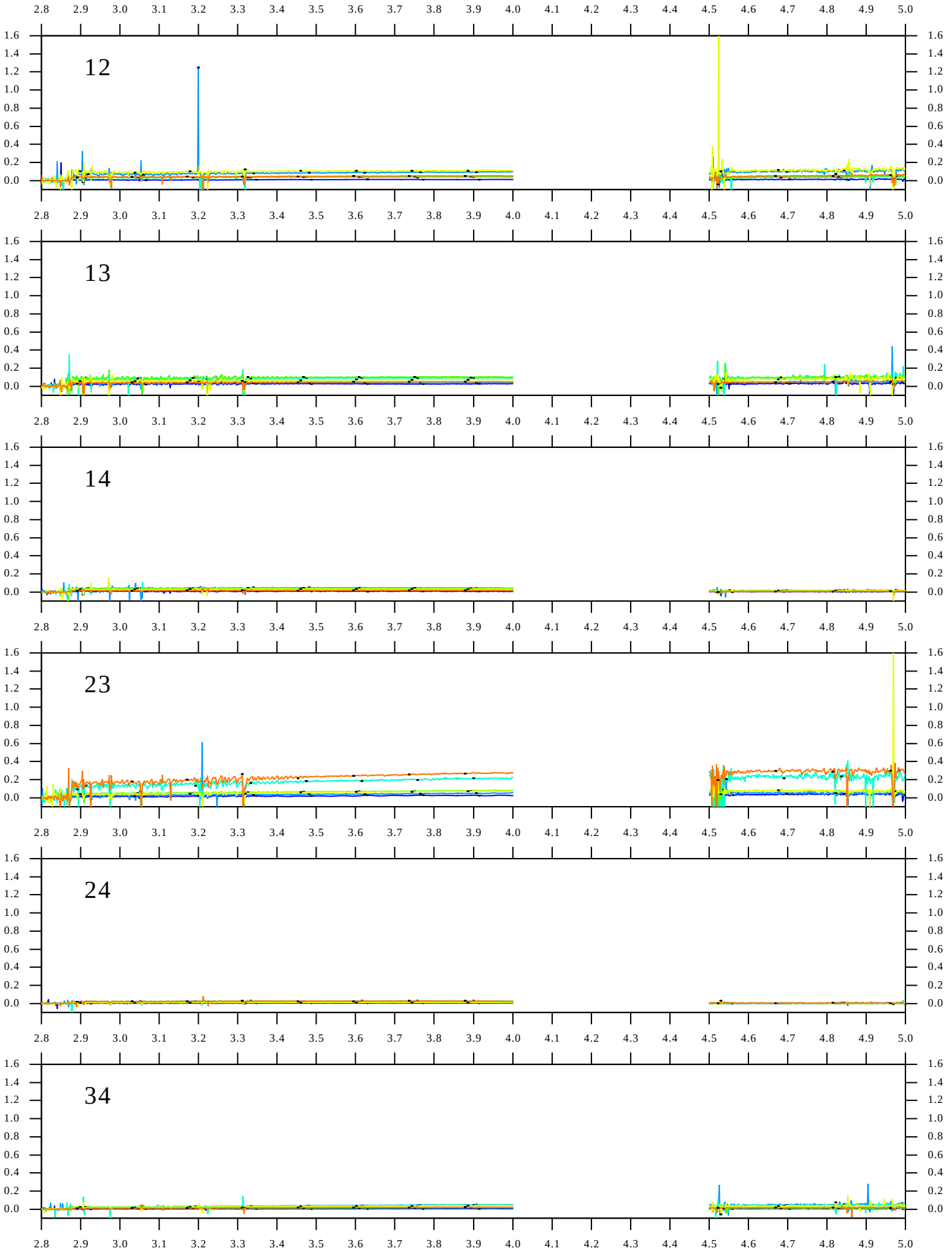
Average photometric flux (1.0e+04 photo-e-/s/sp.channel ± std) ==> page 7

Telescope	Tel_1	Tel_2	Tel_3	Tel_4
Flux	6.089 ± 0.088	7.034 ± 0.075	4.483 ± 0.070	6.159 ± 0.073

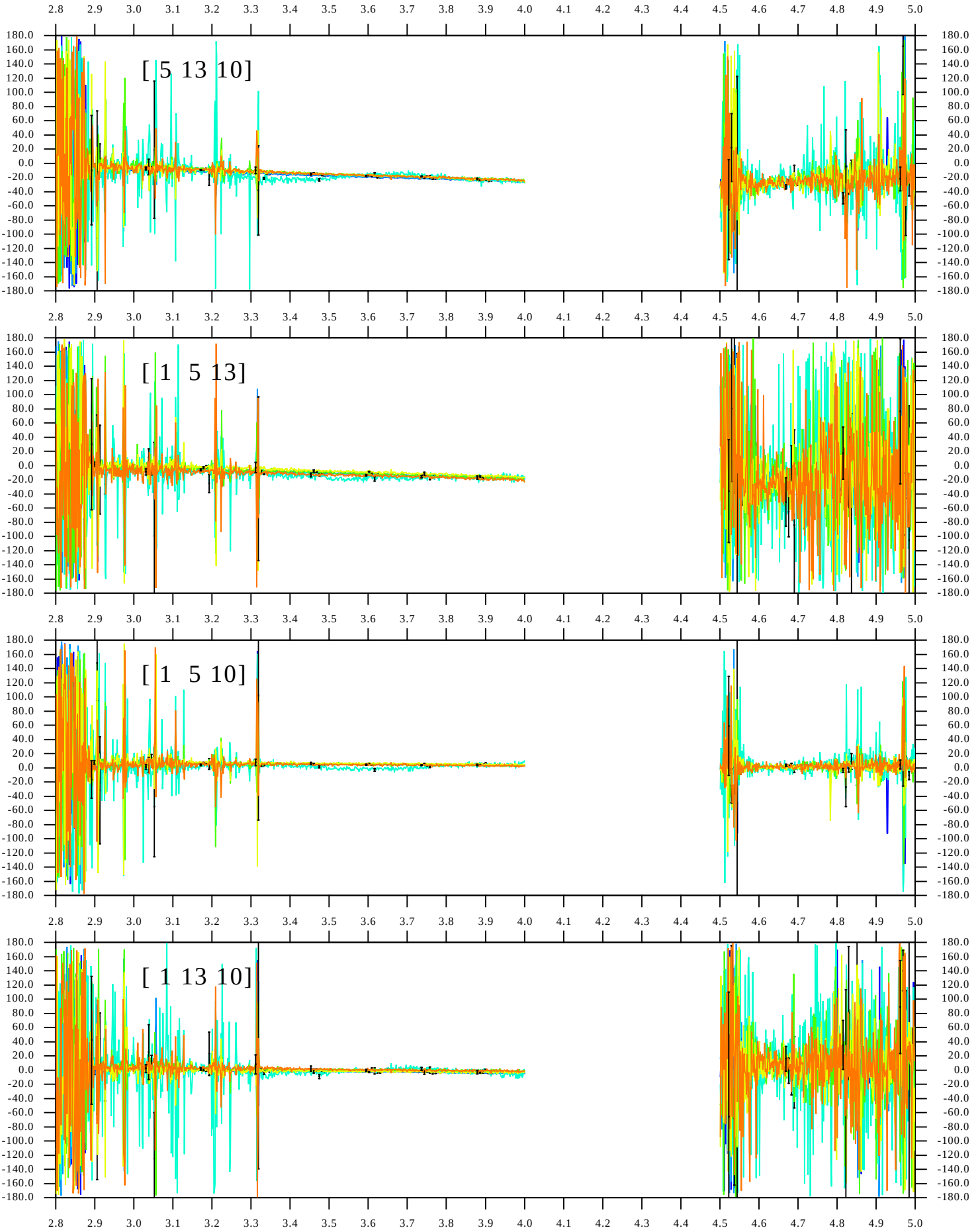
Squared visibility vs wavelength (in microns) ==> VIS2DATA

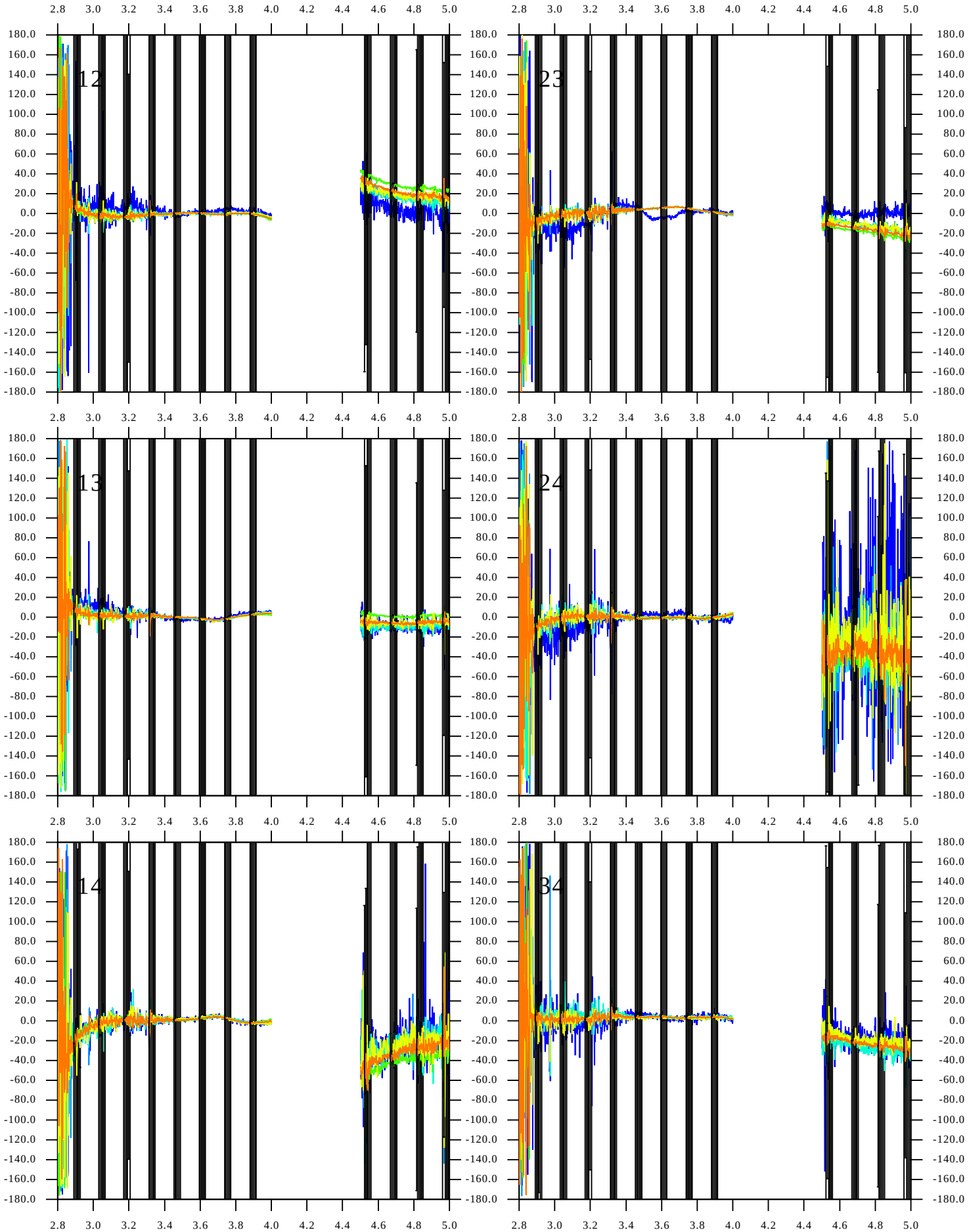


Time averaged visibility amp. vs wavelength (in microns) ==> VISAMP

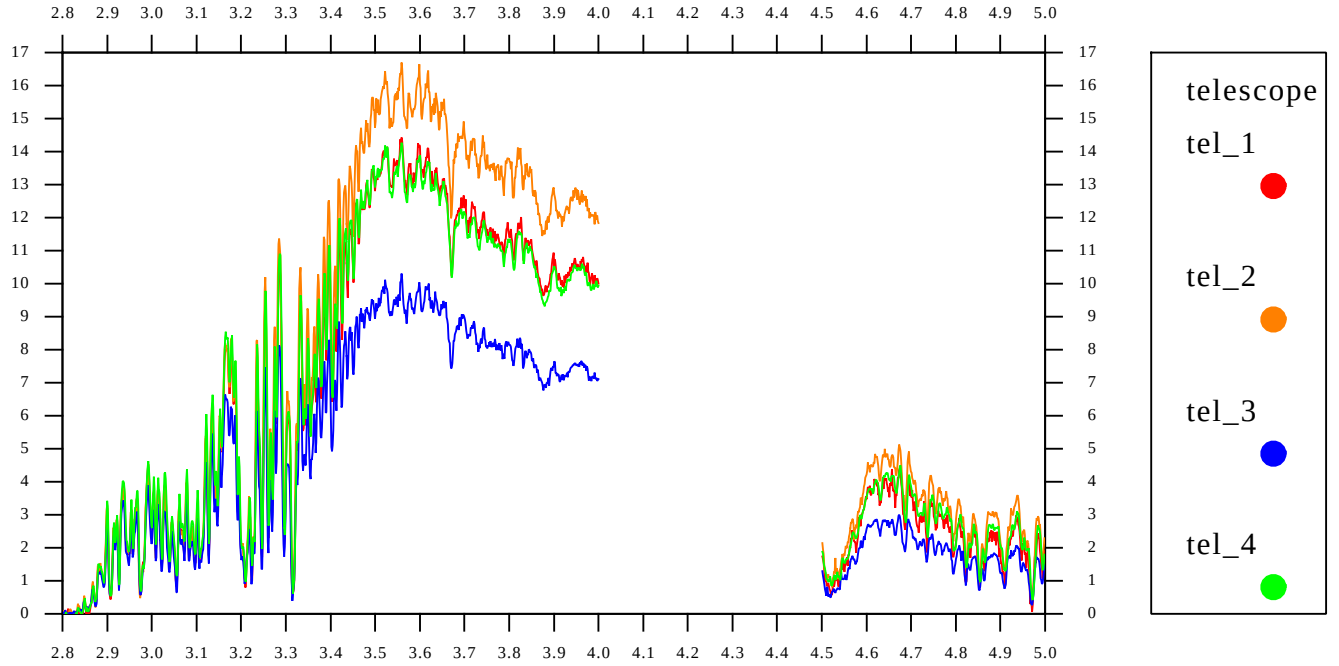


Closure phase (in degres) vs wavelength (in microns) ==> T3PHI

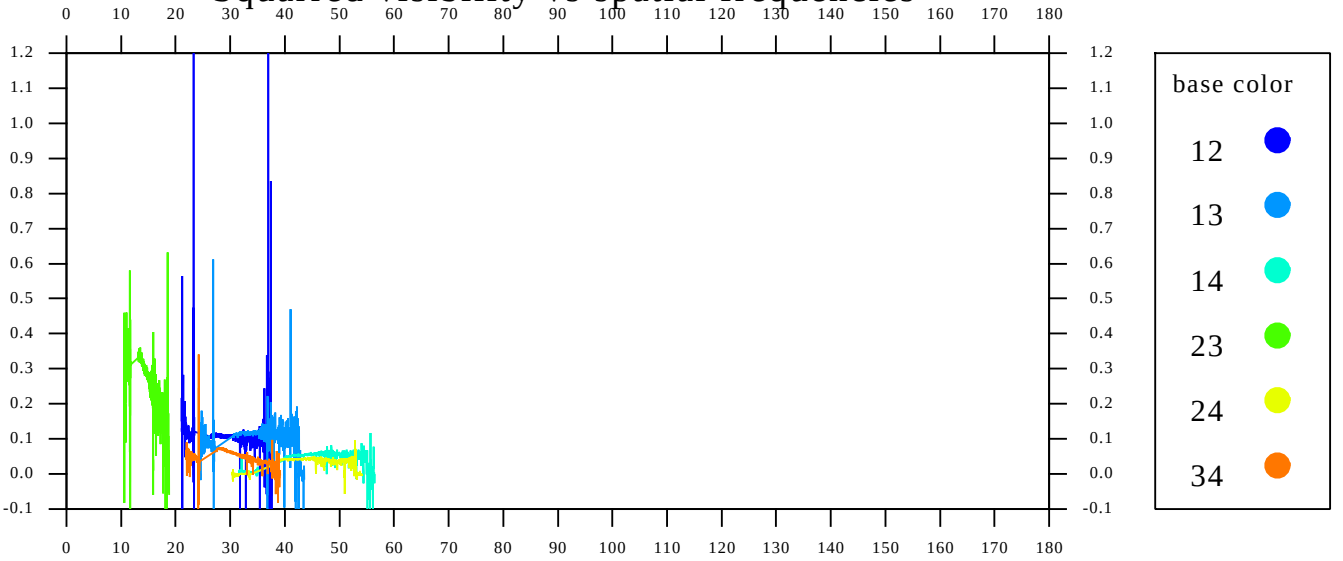



12
23
13
24
14
34
2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0
180.0 160.0 140.0 120.0 100.0 80.0 60.0 40.0 20.0 0.0 -20.0 -40.0 -60.0 -80.0 -100.0 -120.0 -140.0 -160.0 -180.0

Average spectrum (in 1.0e+04 photo-e/DIT) vs wavelength (in microns)



Squarred visibility vs spatial frequencies



Phase closure vs maximal spatial frequencies