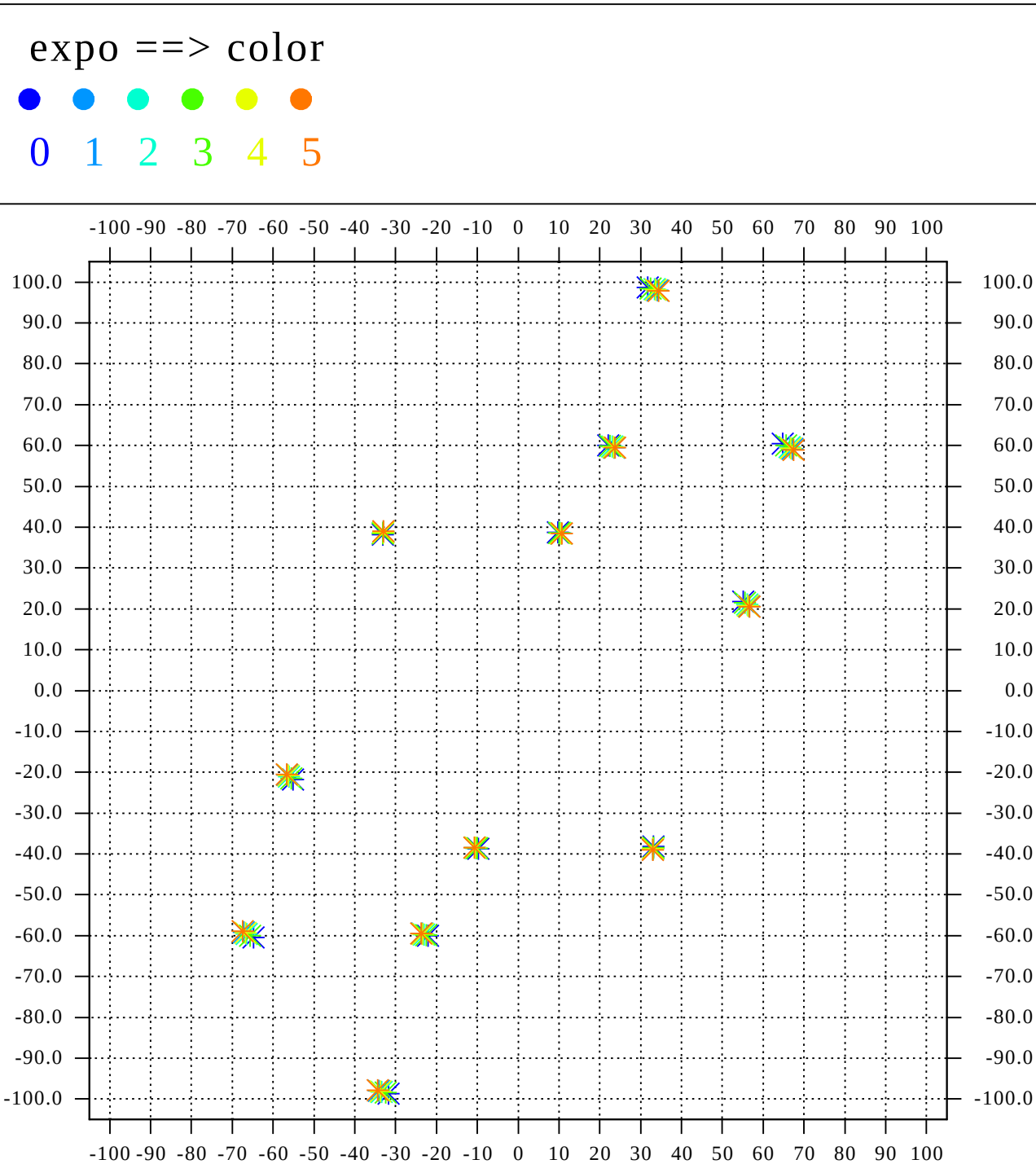
MATISSE OIFITS Quality Control Report

Filename	2018-05-12T03_31_13.6272_HSco_IR-LM.fits
Observing date	2018-05-12T03:31:13.6272
Processing/report date	2018-06-06T06:42:11 2018-07-05T16:51:46
Product category, Chip name	CALIB_RAW_INT, HAWAII-2RG
DIL, PIL, POL, FIL, SFL, BCD1, BCD2	LOW, PHOTO, OPEN, L, HOLE2, IN, IN
NDIT x DIT ; time_tot ; nb_expo ; nwave	385 x 0.0751997 s ; 28.9518845 s ; 6 ; 64
Object name	H Sco [STD]
Object RA, Dec, L, M	249.093716 -35.25528 L = TBD M = TBD
Telescope stations	AT4=J3 AT3=D0 AT2=G2 AT1=K0
Seeing (arcsec) ; Wind (m/s) ; T0 in V (s)	1.7 --> 1.7 ; 12.78 ; 0.001681 --> 0.001681



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	0.053 ± 0.006	1.000	0.000	0.000	0.000	0.000
13	0.206 ± 0.022	1.000	0.000	0.000	0.000	0.000
14	0.150 ± 0.020	1.000	0.000	0.000	0.000	0.000
23	0.086 ± 0.010	1.000	0.000	0.000	0.000	0.000
24	0.083 ± 0.012	1.000	0.000	0.000	0.000	0.000
34	0.111 ± 0.015	1.000	0.000	0.000	0.000	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	0.029 ± 0.000	1.000	0.000	0.000	0.000	0.000
13	0.099 ± 0.000	1.000	0.000	0.000	0.000	0.000
14	0.078 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.044 ± 0.000	1.000	0.000	0.000	0.000	0.000
24	0.032 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.053 ± 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	+12.584 ± 215.492	0.904	0.000	0.000	0.096	0.000
13	-16.198 ± 199.740	0.923	0.000	0.000	0.077	0.000
14	+3.338 ± 190.843	0.923	0.000	0.000	0.077	0.000
23	+5.961 ± 126.629	0.885	0.000	0.000	0.115	0.000
24	-24.520 ± 190.058	0.885	0.000	0.000	0.115	0.000
34	-12.594 ± 152.585	0.962	0.000	0.000	0.038	0.000

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

Triplet	[28 24 13]	[19 28 24]	[19 28 13]	[19 24 13]
Phi(deg)	+0.288 ± 2.859	+0.328 ± 2.640	+4.265 ± 6.293	+3.527 ± 8.817

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	0.041 ± 0.005	1.000	0.000	0.000	0.000	0.000
13	0.155 ± 0.017	1.000	0.000	0.000	0.000	0.000
14	0.125 ± 0.017	0.981	0.019	0.000	0.000	0.000
23	0.072 ± 0.006	0.981	0.000	0.000	0.019	0.000
24	0.064 ± 0.009	1.000	0.000	0.000	0.000	0.000
34	0.080 ± 0.010	1.000	0.000	0.000	0.000	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	0.008 ± 0.000	1.000	0.000	0.000	0.000	0.000
13	0.035 ± 0.000	1.000	0.000	0.000	0.000	0.000
14	0.039 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.013 ± 0.000	1.000	0.000	0.000	0.000	0.000
24	0.008 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.014 ± 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	+1.409 ± 283.103	0.846	0.000	0.000	0.154	0.000
13	-11.511 ± 245.594	0.788	0.000	0.000	0.212	0.000
14	+6.809 ± 218.398	0.788	0.000	0.000	0.212	0.000
23	+12.047 ± 254.667	0.904	0.000	0.000	0.096	0.000
24	-22.150 ± 281.103	0.769	0.000	0.000	0.231	0.000
34	-21.600 ± 205.652	0.942	0.000	0.000	0.058	0.000

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

Triplet	[28 24 13]	[19 28 24]	[19 28 13]	[19 24 13]
Phi(deg)	-0.928 ± 5.193	-0.274 ± 12.552	+4.742 ± 3.865	+1.428 ± 5.156

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	0.042 ± 0.006	1.000	0.000	0.000	0.000	0.000
13	0.147 ± 0.027	1.000	0.000	0.000	0.000	0.000
14	0.104 ± 0.023	1.000	0.000	0.000	0.000	0.000
23	0.079 ± 0.013	1.000	0.000	0.000	0.000	0.000
24	0.060 ± 0.011	1.000	0.000	0.000	0.000	0.000
34	0.092 ± 0.017	1.000	0.000	0.000	0.000	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	0.011 ± 0.000	1.000	0.000	0.000	0.000	0.000
13	0.036 ± 0.000	1.000	0.000	0.000	0.000	0.000
14	0.034 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.014 ± 0.000	1.000	0.000	0.000	0.000	0.000
24	0.014 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.022 ± 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	+5.253 ± 256.959	0.942	0.000	0.000	0.058	0.000
13	-20.836 ± 197.505	0.846	0.000	0.000	0.154	0.000
14	+15.252 ± 245.527	0.923	0.000	0.000	0.077	0.000
23	+9.392 ± 304.271	0.885	0.000	0.000	0.115	0.000
24	-30.484 ± 218.706	0.808	0.000	0.000	0.192	0.000
34	-32.475 ± 199.538	0.904	0.000	0.000	0.096	0.000

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

Triplet	[28 24 13]	[19 28 24]	[19 28 13]	[19 24 13]
Phi(deg)	-1.489 ± 7.094	-1.074 ± 6.714	+4.065 ± 8.673	-4.653 ± 13.662

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	0.025 ± 0.007	1.000	0.000	0.000	0.000	0.000
13	0.103 ± 0.023	0.981	0.019	0.000	0.000	0.000
14	0.072 ± 0.019	1.000	0.000	0.000	0.000	0.000
23	0.037 ± 0.015	1.000	0.000	0.000	0.000	0.000
24	0.043 ± 0.014	1.000	0.000	0.000	0.000	0.000
34	0.045 ± 0.015	1.000	0.000	0.000	0.000	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	0.018 ± 0.000	1.000	0.000	0.000	0.000	0.000
13	0.065 ± 0.000	1.000	0.000	0.000	0.000	0.000
14	0.053 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.030 ± 0.000	1.000	0.000	0.000	0.000	0.000
24	0.027 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.027 ± 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	+14.680 ± 214.420	0.808	0.000	0.000	0.192	0.000
13	-1.412 ± 204.561	0.827	0.000	0.000	0.173	0.000
14	+6.811 ± 232.255	0.942	0.000	0.000	0.058	0.000
23	+7.445 ± 192.684	0.904	0.000	0.000	0.096	0.000
24	-10.672 ± 195.889	0.904	0.000	0.000	0.096	0.000
34	-18.532 ± 176.980	0.904	0.000	0.000	0.096	0.000

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

Triplet	[28 24 13]	[19 28 24]	[19 28 13]	[19 24 13]
Phi(deg)	+6.377 ± 16.110	-5.061 ± 10.279	+9.329 ± 10.591	-6.135 ± 17.390

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	0.028 ± 0.008	1.000	0.000	0.000	0.000	0.000
13	0.157 ± 0.036	1.000	0.000	0.000	0.000	0.000
14	0.106 ± 0.042	1.000	0.000	0.000	0.000	0.000
23	0.042 ± 0.007	0.981	0.019	0.000	0.000	0.000
24	0.047 ± 0.014	1.000	0.000	0.000	0.000	0.000
34	0.051 ± 0.009	1.000	0.000	0.000	0.000	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	0.003 ± 0.000	1.000	0.000	0.000	0.000	0.000
13	0.036 ± 0.000	1.000	0.000	0.000	0.000	0.000
14	0.013 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.007 ± 0.000	1.000	0.000	0.000	0.000	0.000
24	0.004 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.007 ± 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	-7.922 ± 265.632	0.846	0.000	0.000	0.154	0.000
13	+5.099 ± 312.748	0.942	0.000	0.000	0.058	0.000
14	-6.240 ± 297.403	0.885	0.000	0.000	0.115	0.000
23	+13.269 ± 272.328	0.885	0.000	0.000	0.115	0.000
24	-37.031 ± 358.667	0.827	0.000	0.000	0.173	0.000
34	-12.337 ± 332.629	0.865	0.000	0.000	0.135	0.000

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

Triplet	[28 24 13]	[19 28 24]	[19 28 13]	[19 24 13]
Phi(deg)	-0.746 ± 9.327	-2.061 ± 8.787	-2.247 ± 12.449	-4.971 ± 22.707

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	0.037 ± 0.006	1.000	0.000	0.000	0.000	0.000
13	0.092 ± 0.018	1.000	0.000	0.000	0.000	0.000
14	0.097 ± 0.017	1.000	0.000	0.000	0.000	0.000
23	0.077 ± 0.014	0.981	0.000	0.000	0.019	0.000
24	0.046 ± 0.007	1.000	0.000	0.000	0.000	0.000
34	0.062 ± 0.008	1.000	0.000	0.000	0.000	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	0.012 ± 0.000	1.000	0.000	0.000	0.000	0.000
13	0.031 ± 0.000	1.000	0.000	0.000	0.000	0.000
14	0.023 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.026 ± 0.000	1.000	0.000	0.000	0.000	0.000
24	0.013 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.019 ± 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	+13.582 ± 301.891	0.865	0.000	0.000	0.135	0.000
13	-17.818 ± 234.902	0.904	0.000	0.000	0.096	0.000
14	-22.955 ± 193.975	0.962	0.000	0.000	0.038	0.000
23	-1.575 ± 229.963	0.962	0.000	0.000	0.038	0.000
24	+4.530 ± 246.333	0.904	0.000	0.000	0.096	0.000
34	-9.556 ± 221.802	0.904	0.000	0.000	0.096	0.000

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

Triplet	[28 24 13]	[19 28 24]	[19 28 13]	[19 24 13]
Phi(deg)	-1.310 ± 7.456	+5.502 ± 7.990	+3.948 ± 8.886	+4.523 ± 6.978

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	0.038 ± 0.009 ± 0.006	1.000	0.000	0.000	0.000	0.000
13	0.143 ± 0.038 ± 0.024	0.997	0.003	0.000	0.000	0.000
14	0.109 ± 0.024 ± 0.023	0.997	0.003	0.000	0.000	0.000
23	0.065 ± 0.019 ± 0.011	0.990	0.003	0.000	0.006	0.000
24	0.057 ± 0.014 ± 0.011	1.000	0.000	0.000	0.000	0.000
34	0.074 ± 0.023 ± 0.012	1.000	0.000	0.000	0.000	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	0.013 ± 0.008 ± 0.000	1.000	0.000	0.000	0.000	0.000
13	0.050 ± 0.024 ± 0.000	1.000	0.000	0.000	0.000	0.000
14	0.040 ± 0.021 ± 0.000	1.000	0.000	0.000	0.000	0.000
23	0.022 ± 0.012 ± 0.000	1.000	0.000	0.000	0.000	0.000
24	0.016 ± 0.010 ± 0.000	1.000	0.000	0.000	0.000	0.000
34	0.024 ± 0.015 ± 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	+6.598 ± 8.057 ± 256.250	0.869	0.000	0.000	0.131	0.000
13	-10.446 ± 9.307 ± 232.508	0.872	0.000	0.000	0.128	0.000
14	+0.503 ± 12.254 ± 229.734	0.904	0.000	0.000	0.096	0.000
23	+7.757 ± 4.863 ± 230.090	0.904	0.000	0.000	0.096	0.000
24	-20.054 ± 13.624 ± 248.459	0.849	0.000	0.000	0.151	0.000
34	-17.849 ± 7.694 ± 214.864	0.913	0.000	0.000	0.087	0.000

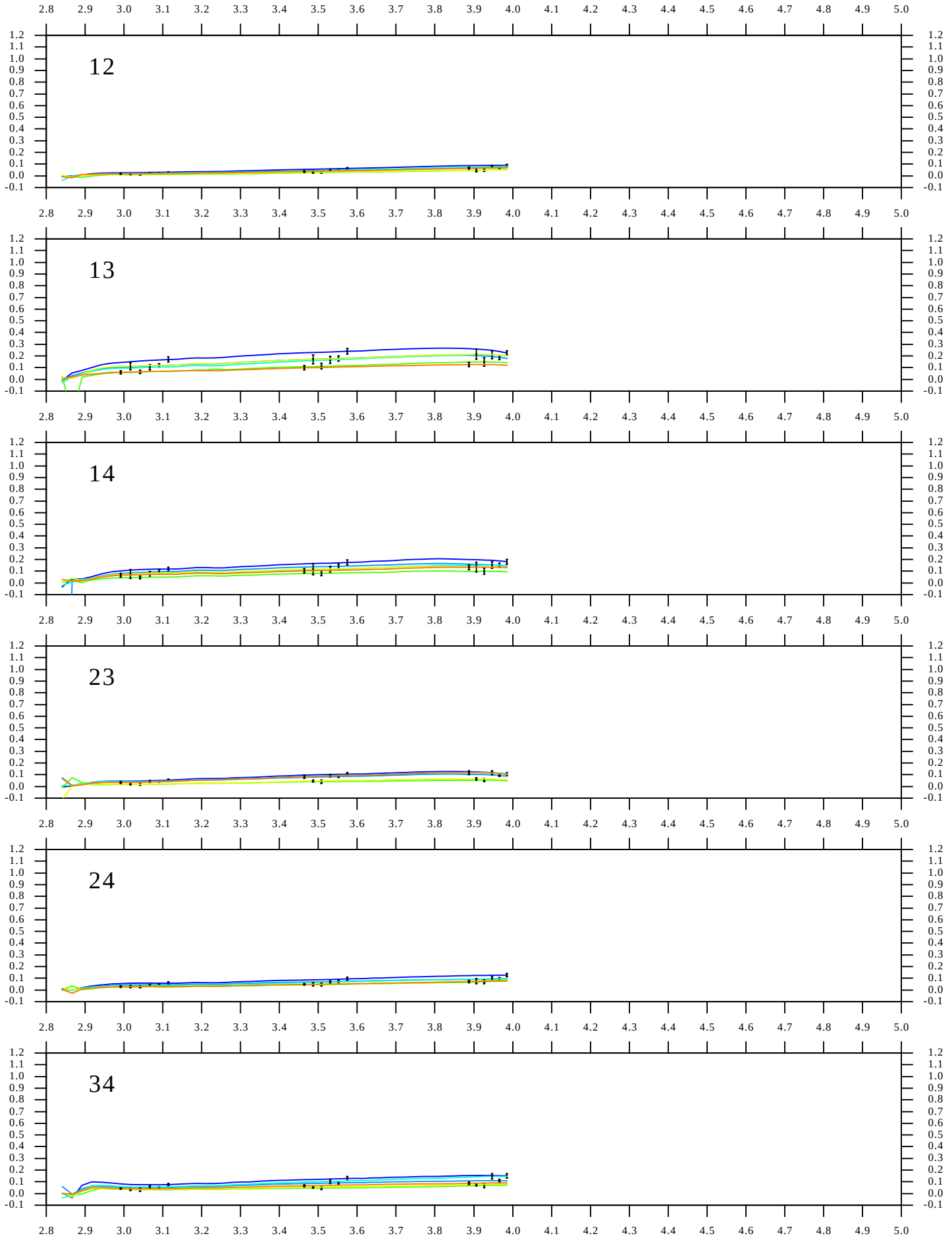
Average closure phase per triplet (t3phi ± err), in degrees ==> page 5

Triplet	[28 24 13]	[19 28 24]	[19 28 13]	[19 24 13]
Phi(deg)	+0.365 ± 2.748 ± 8.007	-0.440 ± 3.171 ± 8.160	+4.017 ± 3.368 ± 8.460	-1.047 ± 4.327 ± 12.452

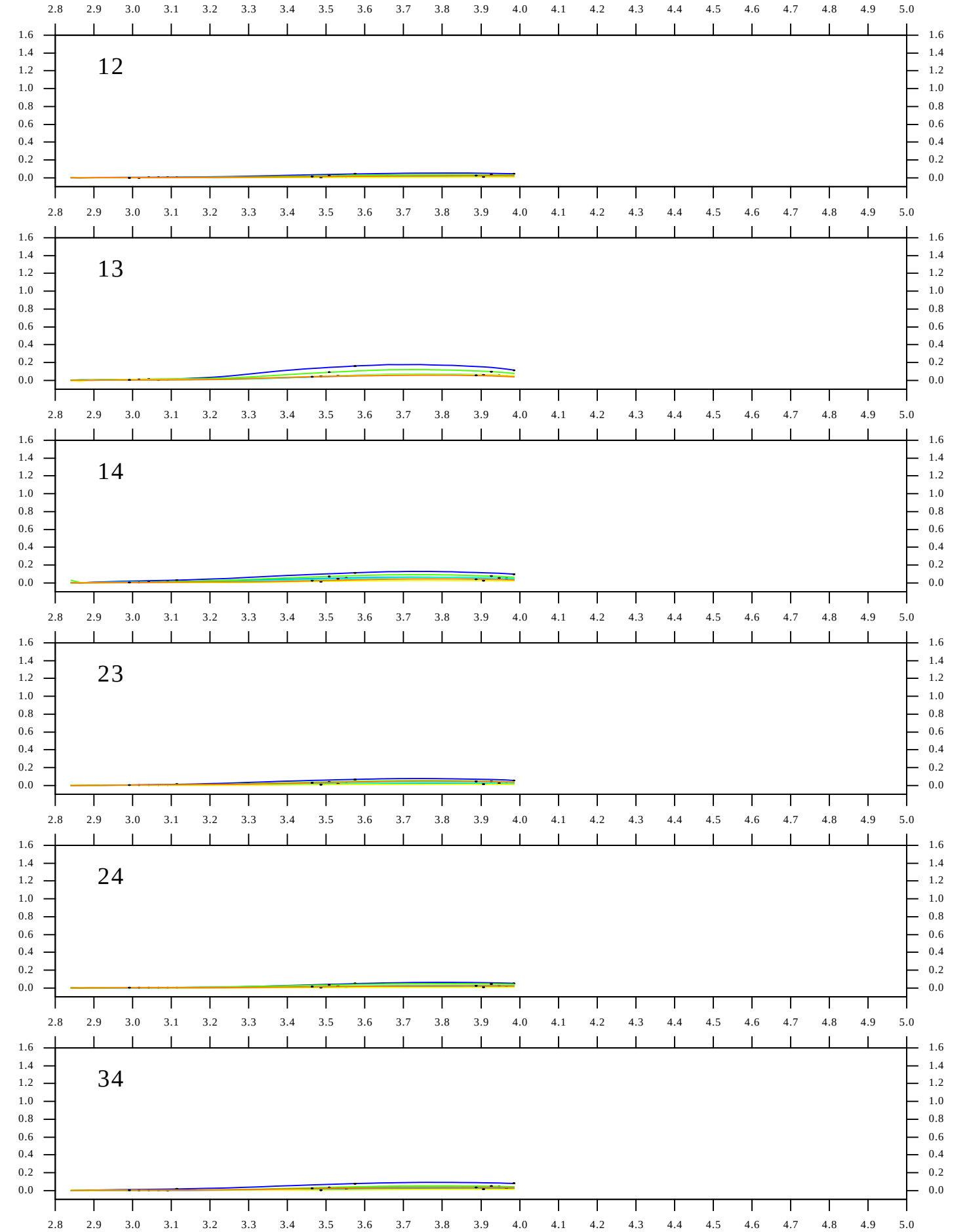
Average photometric flux (1.0e+04 photo-e-/s/sp.channel ± std) ==> page 7

Telescope	Tel_1	Tel_2	Tel_3	Tel_4
Flux	13.489 ± 0.204	15.814 ± 0.198	12.230 ± 0.157	12.657 ± 0.169

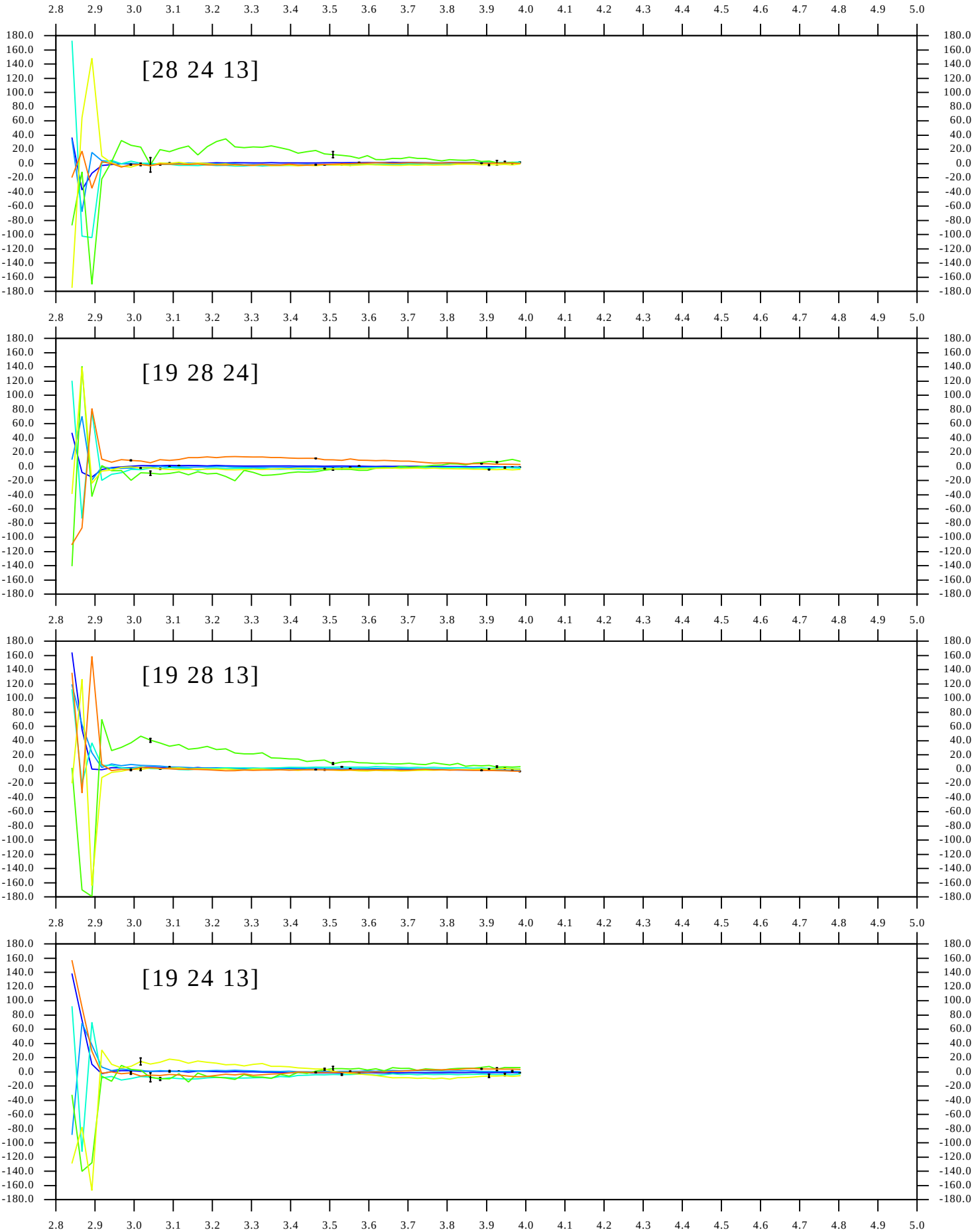
Squared visibility vs wavelength (in microns) ==> VIS2DATA

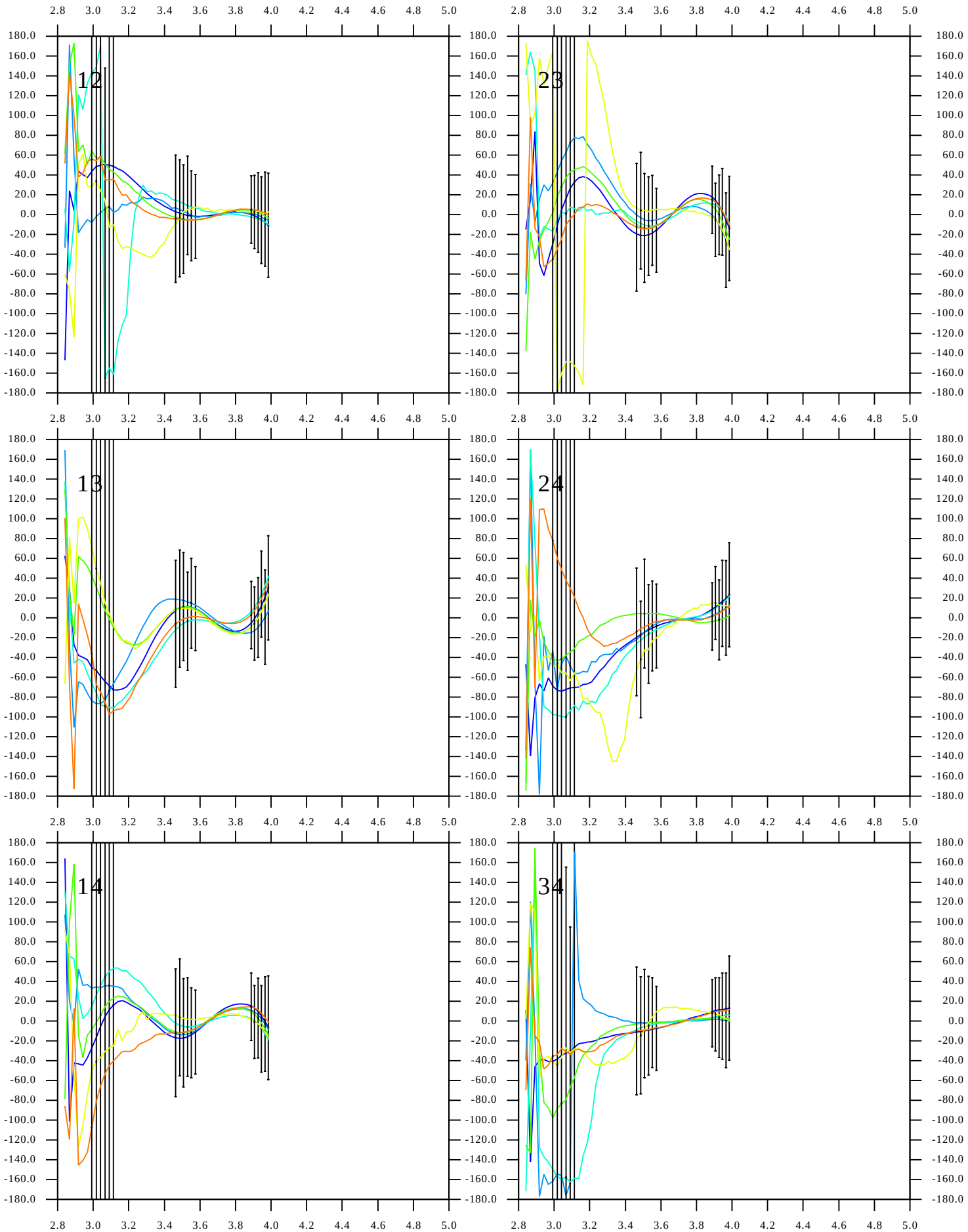


Time averaged visibility amp. vs wavelength (in microns) ==> VISAMP

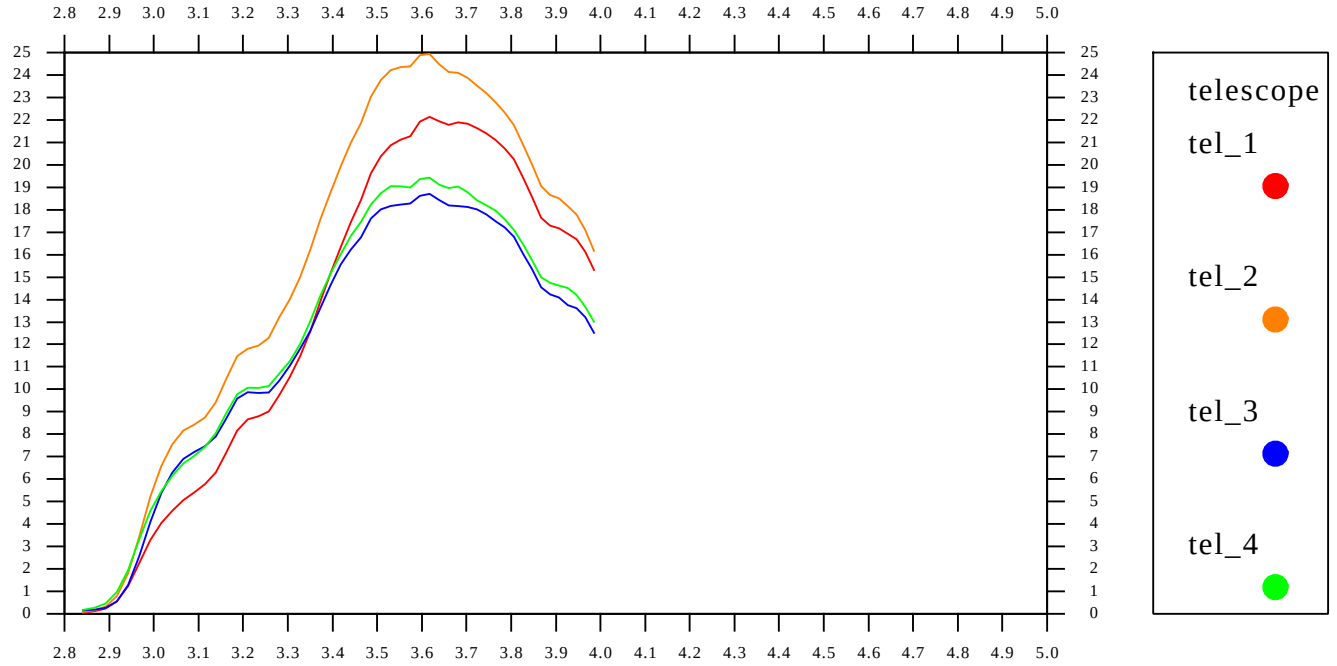


Closure phase (in degres) vs wavelength (in microns) ==> T3PHI

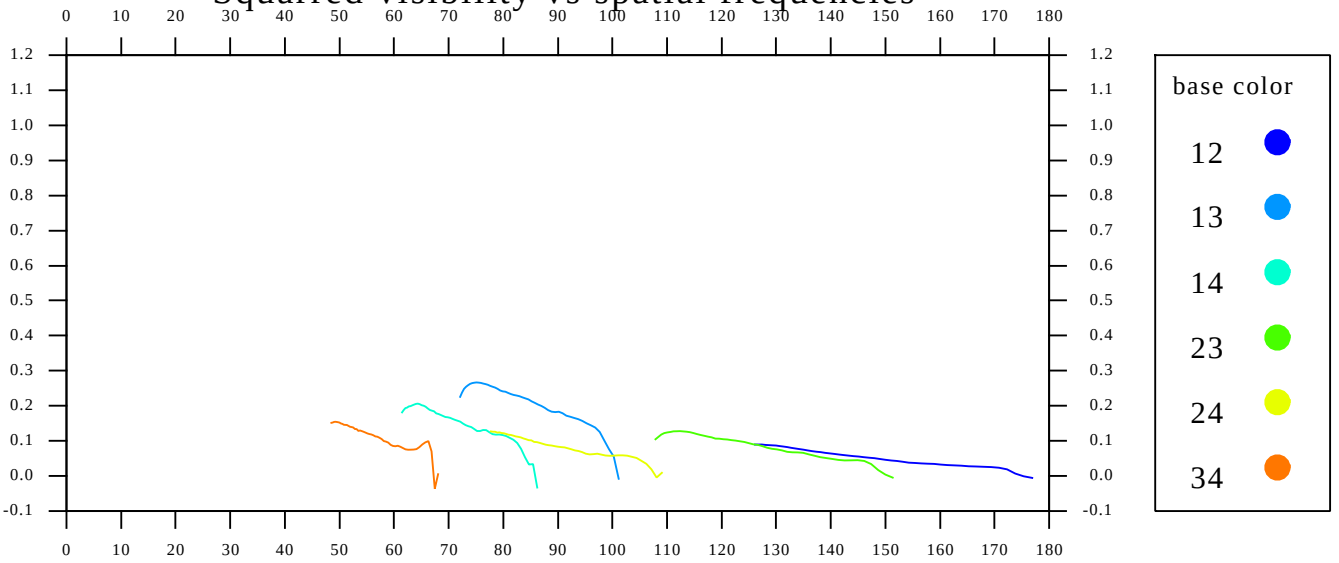



12
23
13
24
14
34
2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0
180.0 160.0 140.0 120.0 100.0 80.0 60.0 40.0 20.0 0.0 -20.0 -40.0 -60.0 -80.0 -100.0 -120.0 -140.0 -160.0 -180.0

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



Squarred visibility vs spatial frequencies



Phase closure vs maximal spatial frequencies