

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 1885 - L2 Version 001
Chandra X-Ray Center

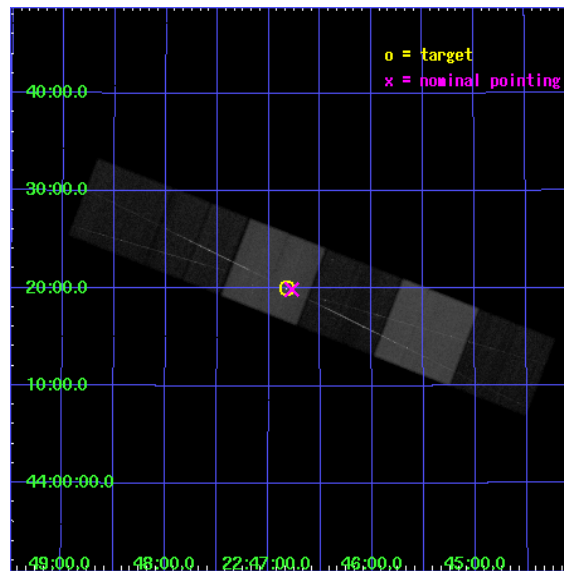
L2 Processing Date : Jan 3 2007

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1 Front

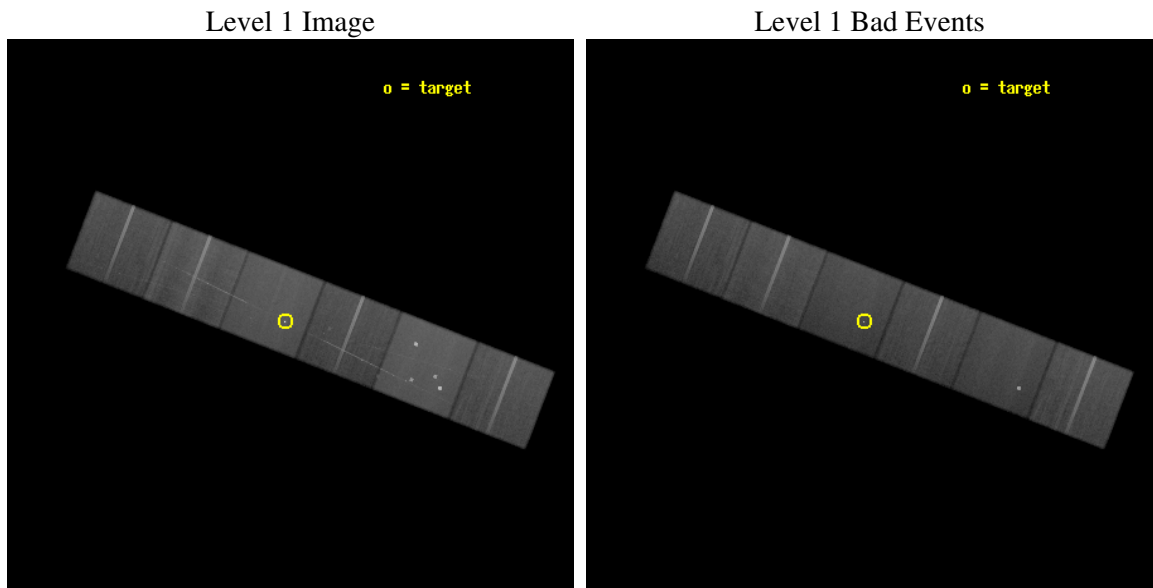
seq_num	200113
obs_id	1885
title	CORONAL DYNAMICS OF THE FLARE STAR EV LAC
observer	RACHEL OSTEN
object	EV LAC
dtcycle	0
cycle	P
ra_targ	341.707083
dec_targ	44.334
ra_nom	341.69371285459
dec_nom	44.332140426164
roll_nom	201.24169801671
revision	2
ontime	101305.75903974
livetime	100022.96451978
ontime4	101305.75903974
ontime5	101305.75903974
ontime6	101302.51804955
ontime7	101305.75903974
ontime8	101305.75903974
ontime9	101305.75903974
l2events	997613



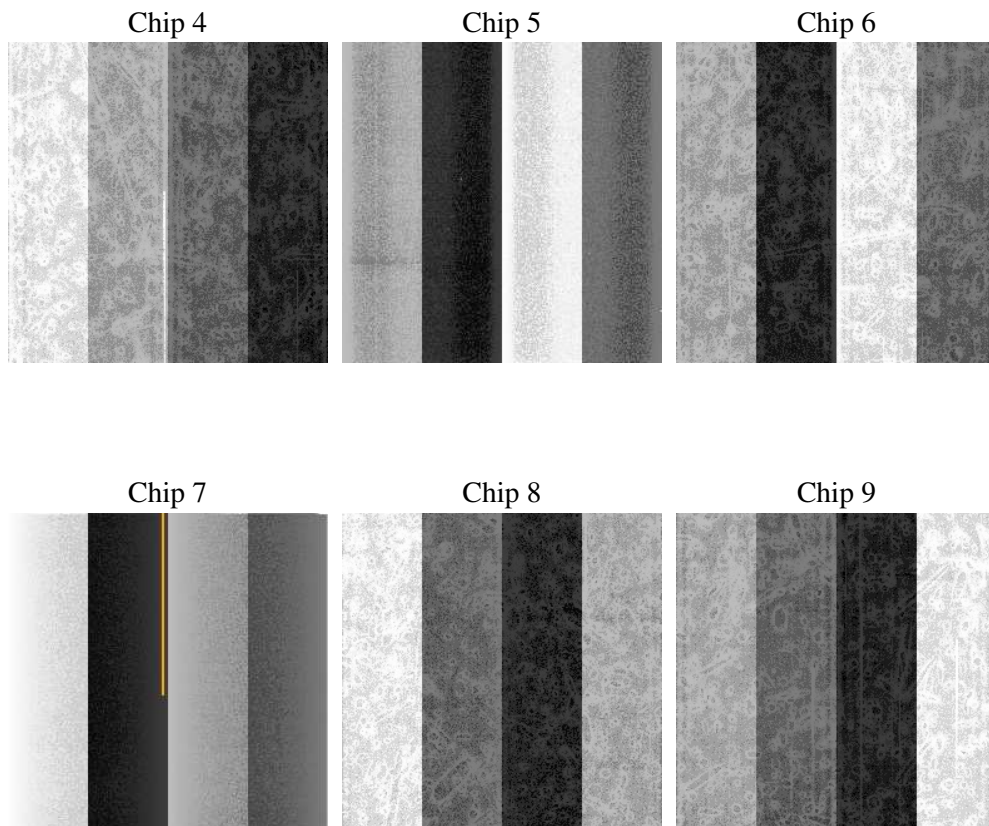
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.4
date	2007-01-03T19:27:42
revision	2

sched_exp_time	101404.547000
ontime	101346.16267098
ontime4	101346.16267098
ontime5	101346.16267098
ontime6	101342.92168079
ontime7	101346.16267098
ontime8	101346.16267098
ontime9	101346.16267098
l1events	4721195

2.1.4 Events

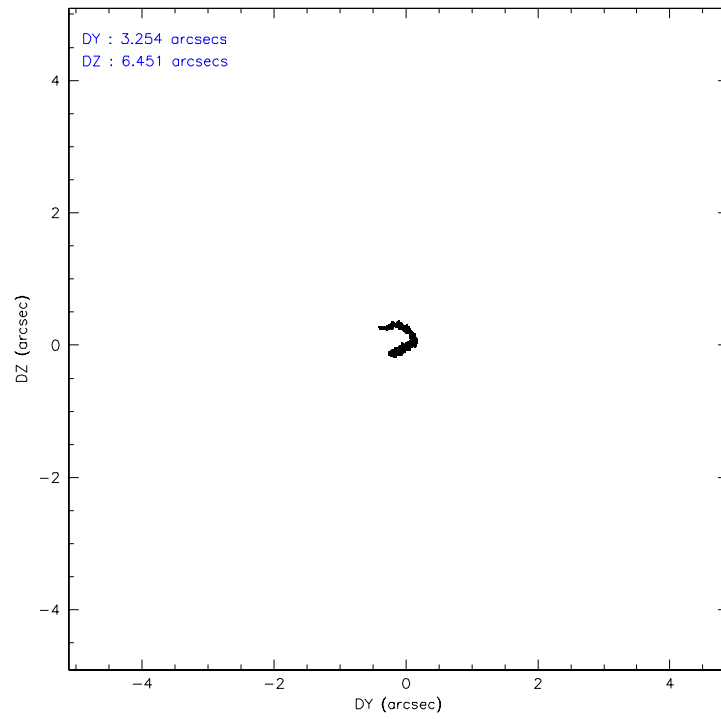
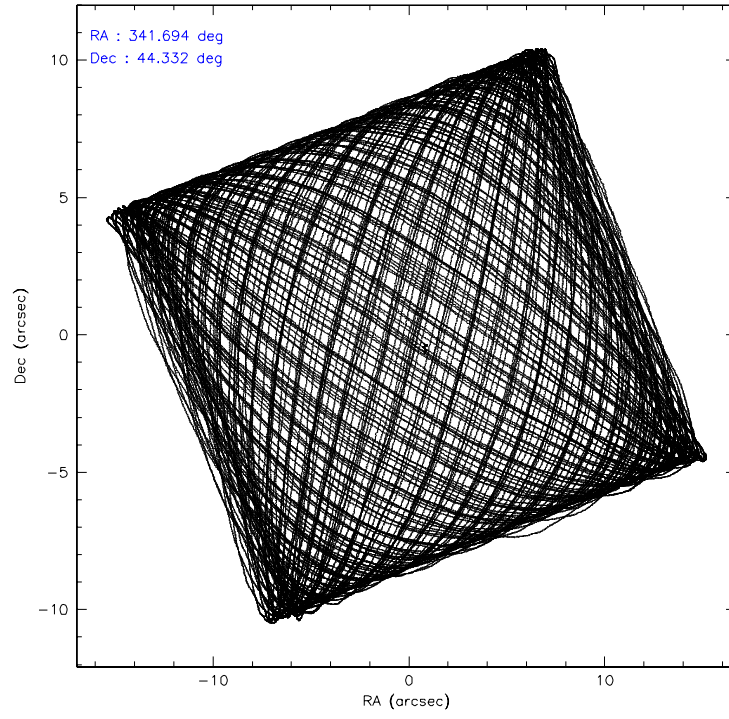
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	734968	965047	671174	861952	830860	657194
rejected events	656590	527183	586114	524291	659550	579618
rejected %	89%	54%	87%	60%	79%	88%

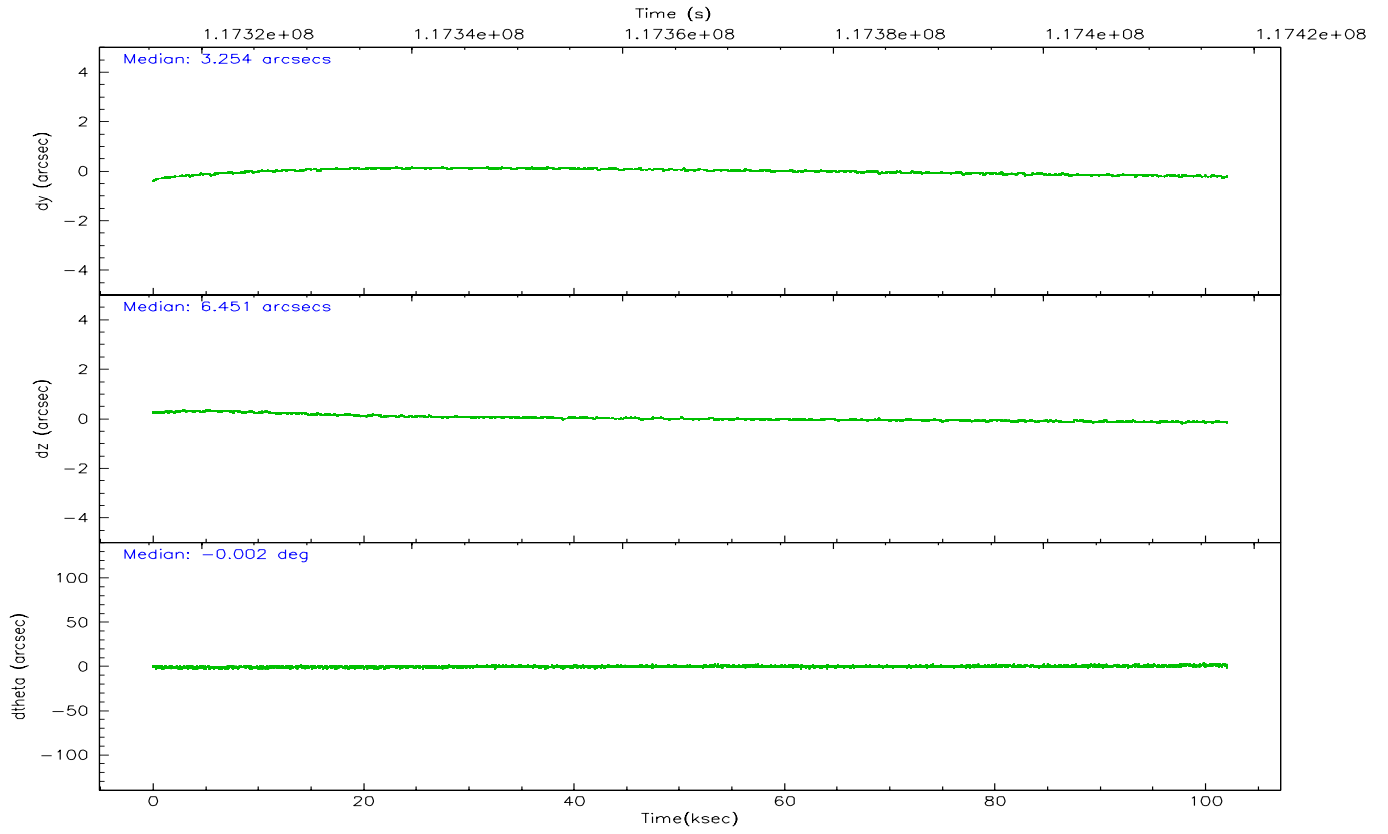
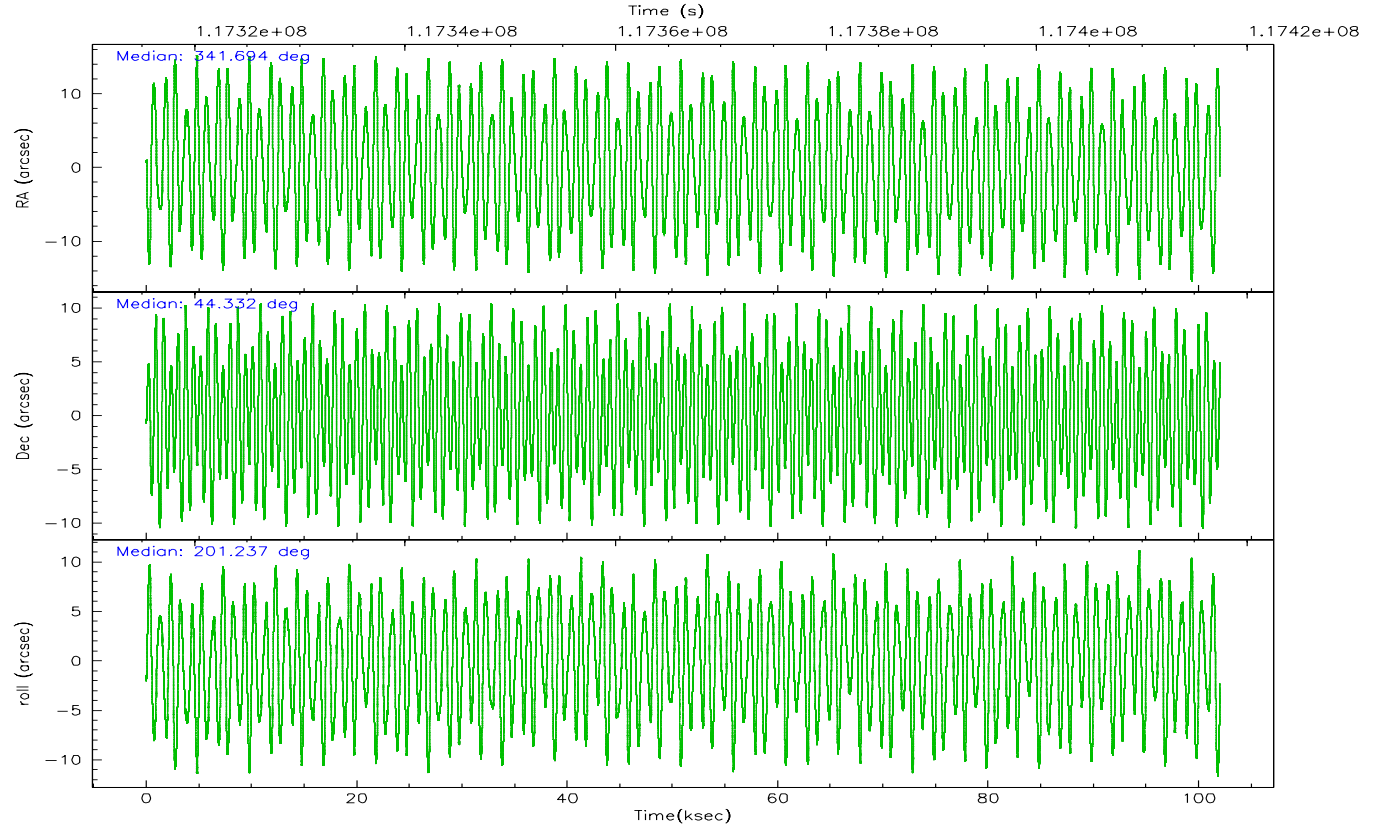
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	31707	53374	38589	22867	58279	31382
	4%	5%	5%	2%	7%	4%
grade 1 events	342	755	348	795	507	283
	0%	0%	0%	0%	0%	0%
grade 2 events	18864	134495	15956	82661	36117	15789
	2%	13%	2%	9%	4%	2%
grade 3 events	7292	9721	7892	19085	17939	7821
	0%	1%	1%	2%	2%	1%
grade 4 events	6951	8815	7573	18095	16628	7397
	0%	0%	1%	2%	2%	1%
grade 5 events	23679	52062	27967	57987	35349	28406
	3%	5%	4%	6%	4%	4%
grade 6 events	13584	231630	15080	195096	42397	15225
	1%	24%	2%	22%	5%	2%
grade 7 events	632549	474195	557769	465366	623644	550891
	86%	49%	83%	53%	75%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	HETG	HETG	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	341.707083	341.6937128545934	Alternating exposures requested	N	N
Pointing Dec	44.334	44.33214042616441	Primary exposure time	0.000000	0.000000
Pointing Roll	201.068617	201.2416980167095			
Window start time	117072064.184000	117072064.184000			
Window stop time	117590464.184000	117590464.184000			
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119			
SIM defocus (mm)	0.001444942264670734	0.001444942264670734			
SIM translation stage pos (mm)	-187.122887688	-187.122887688			
SIM translation stage offset (mm)	-3.00963541596721	-3.00963541596721			
Observation start time	117315383.3	117315383.3			
Observation start date	2001-09-19T19:36:23	2001-09-19T19:36:23			
Observation end time	117417432.3	117417432.3			
Observation end date	2001-09-20T23:57:12	2001-09-20T23:57:12			
Read mode	TIMED	TIMED			

2.3 Aspect



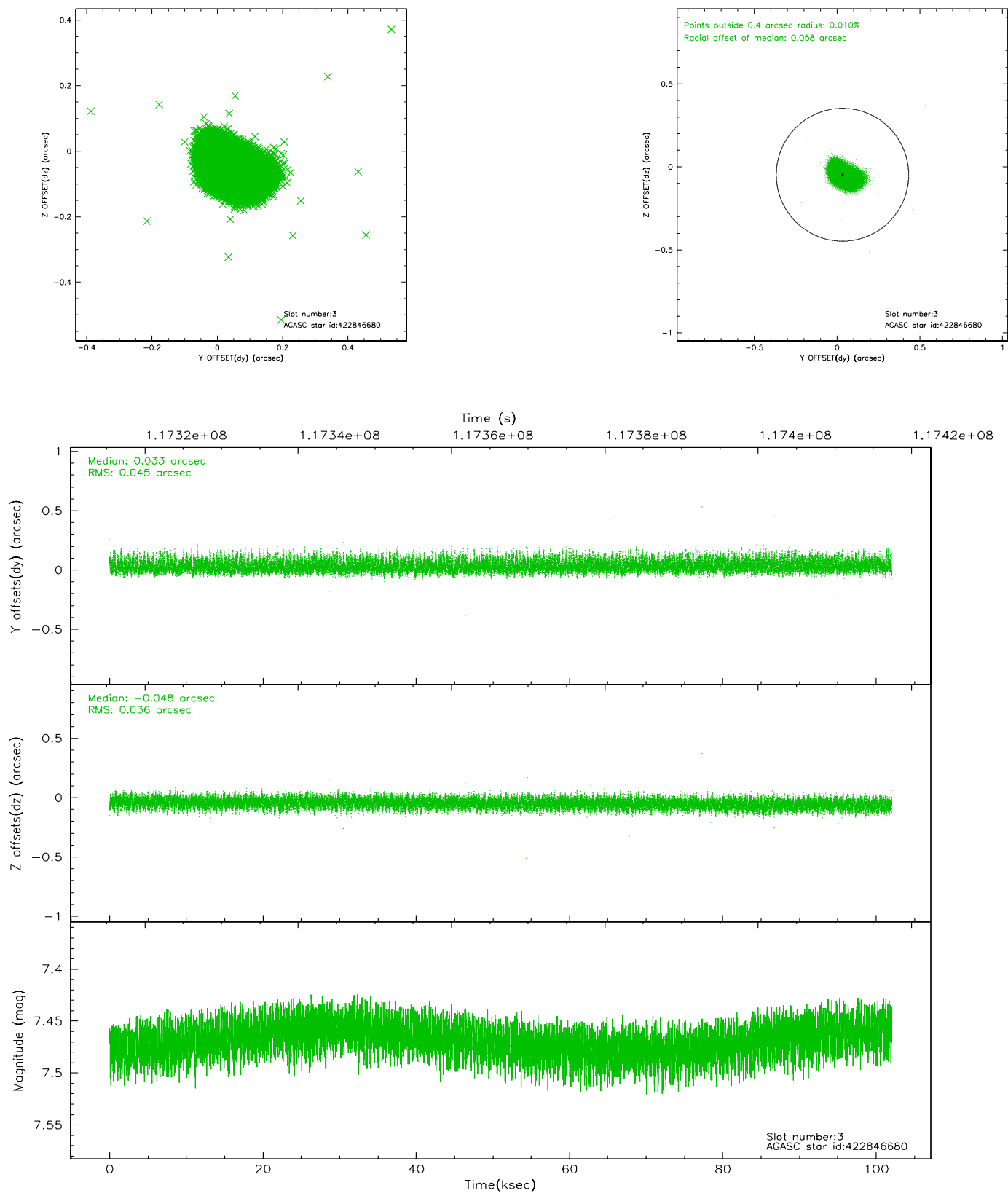


Slot Statistics

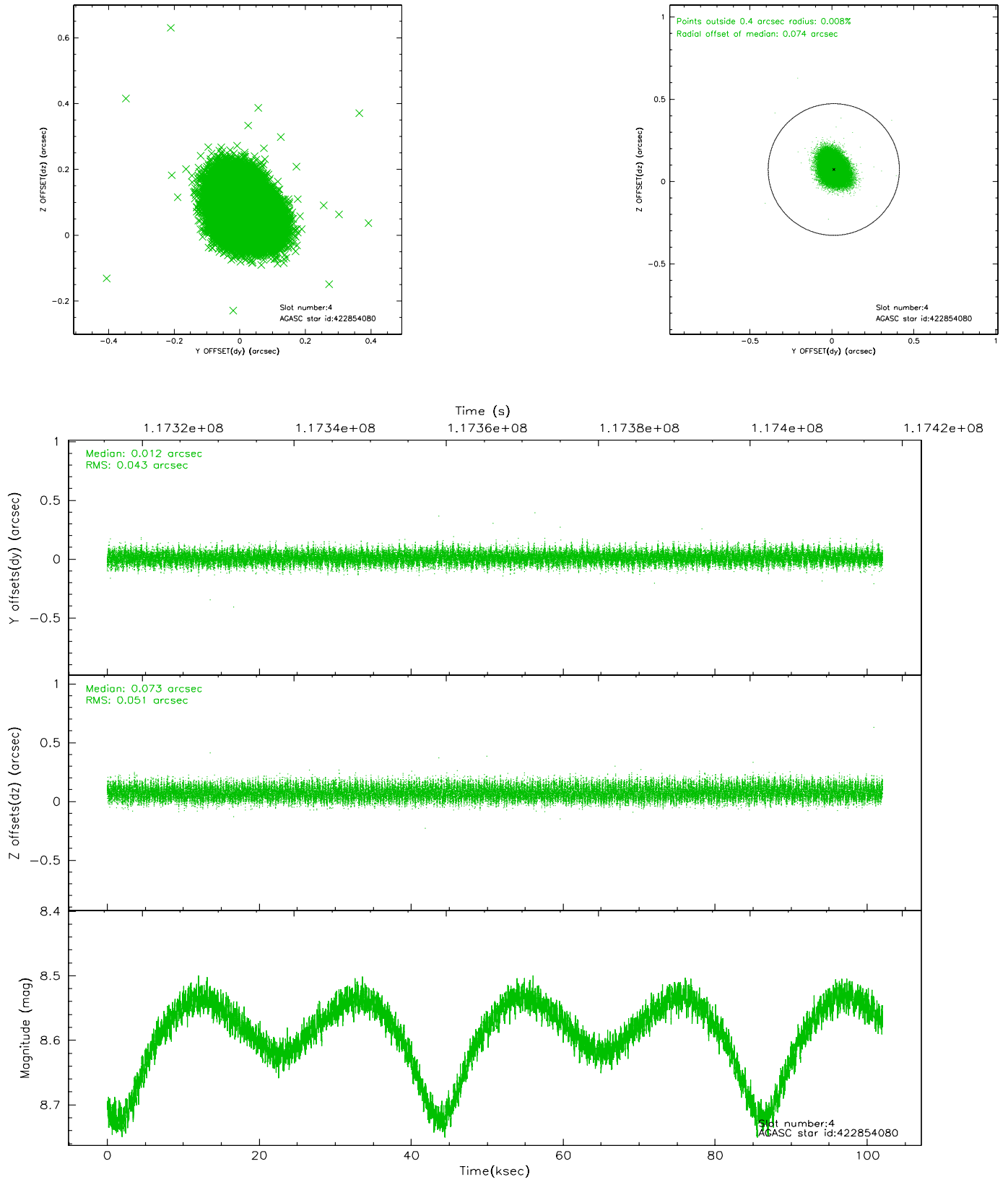
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	24889	-0.005	-0.009	0.005	0.011	0.000000	0.000000	-755.74	-1789.75
1	BAD	ACIS-S-4	7.20	19245	-0.081	0.122	0.018	0.032	0.000000	0.000000	2157.51	118.80
2	FID	ACIS-S-5	7.23	24887	-0.014	0.012	0.005	0.011	0.000000	0.000000	-1808.65	112.44
3	GUIDE	422846680	7.47	49772	0.033	-0.048	0.060	0.100	341.352010	44.752432	354.80	-1676.73
4	GUIDE	422854080	8.58	49770	0.012	0.073	0.071	0.115	341.576579	43.868860	967.97	1497.71
5	GUIDE	474618520	8.70	49757	-0.029	0.007	0.075	0.118	342.262523	45.069300	-2221.67	-1909.77
6	GUIDE	422853744	9.47	49751	-0.020	-0.033	0.102	0.161	341.282434	43.669188	1941.24	1890.20
7	MONITOR		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

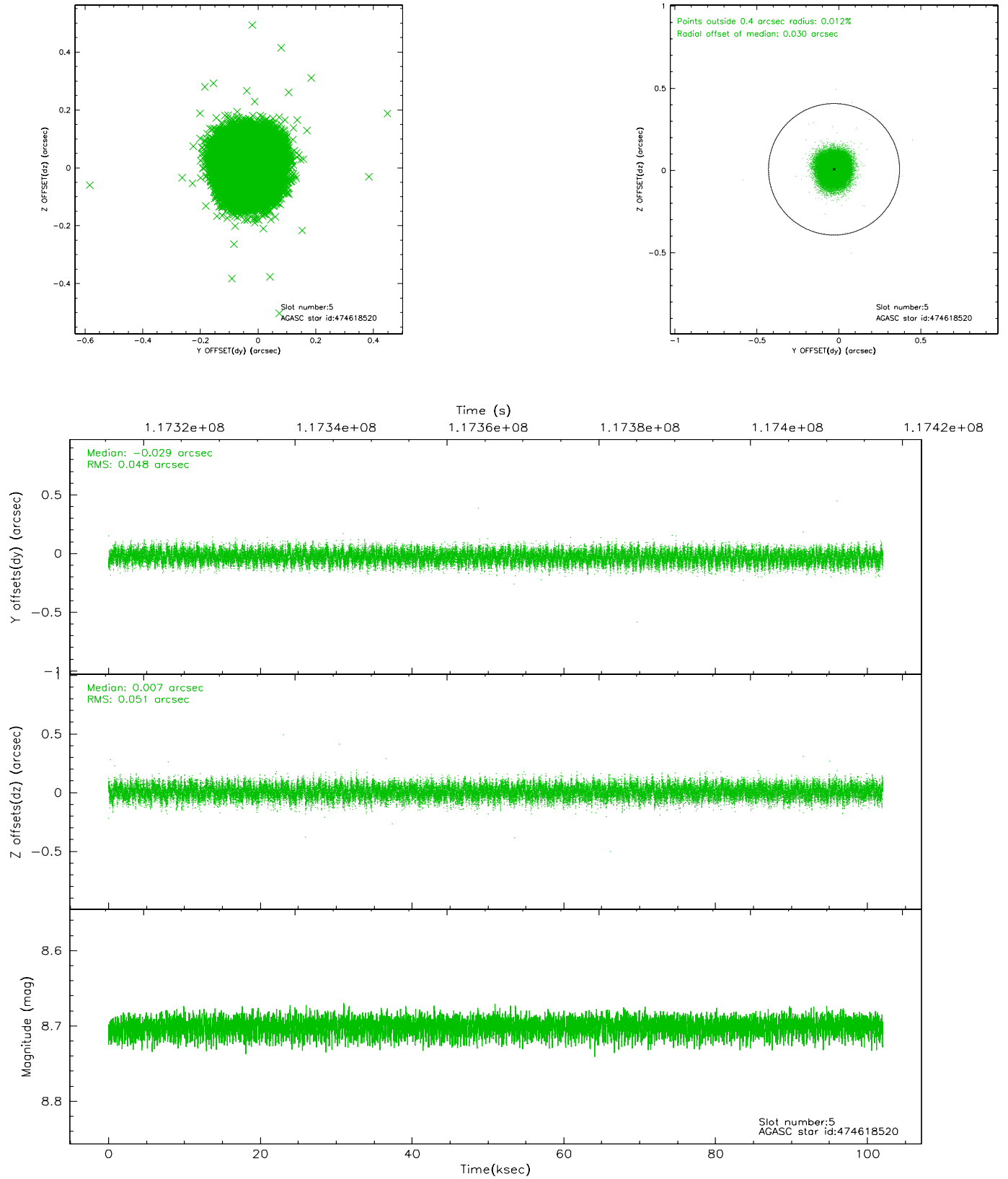
2.4.1 Slot 3



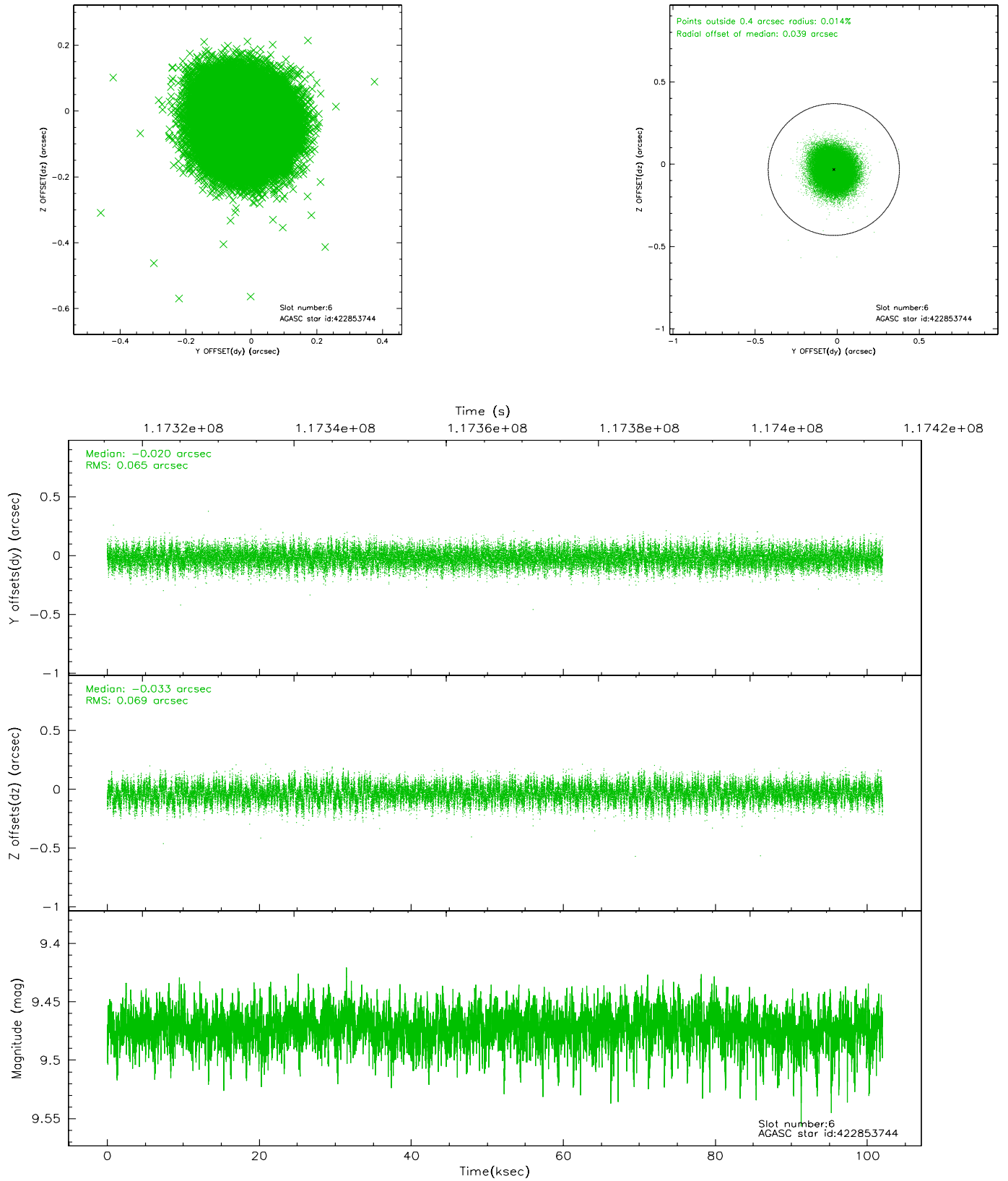
2.4.2 Slot 4



2.4.3 Slot 5

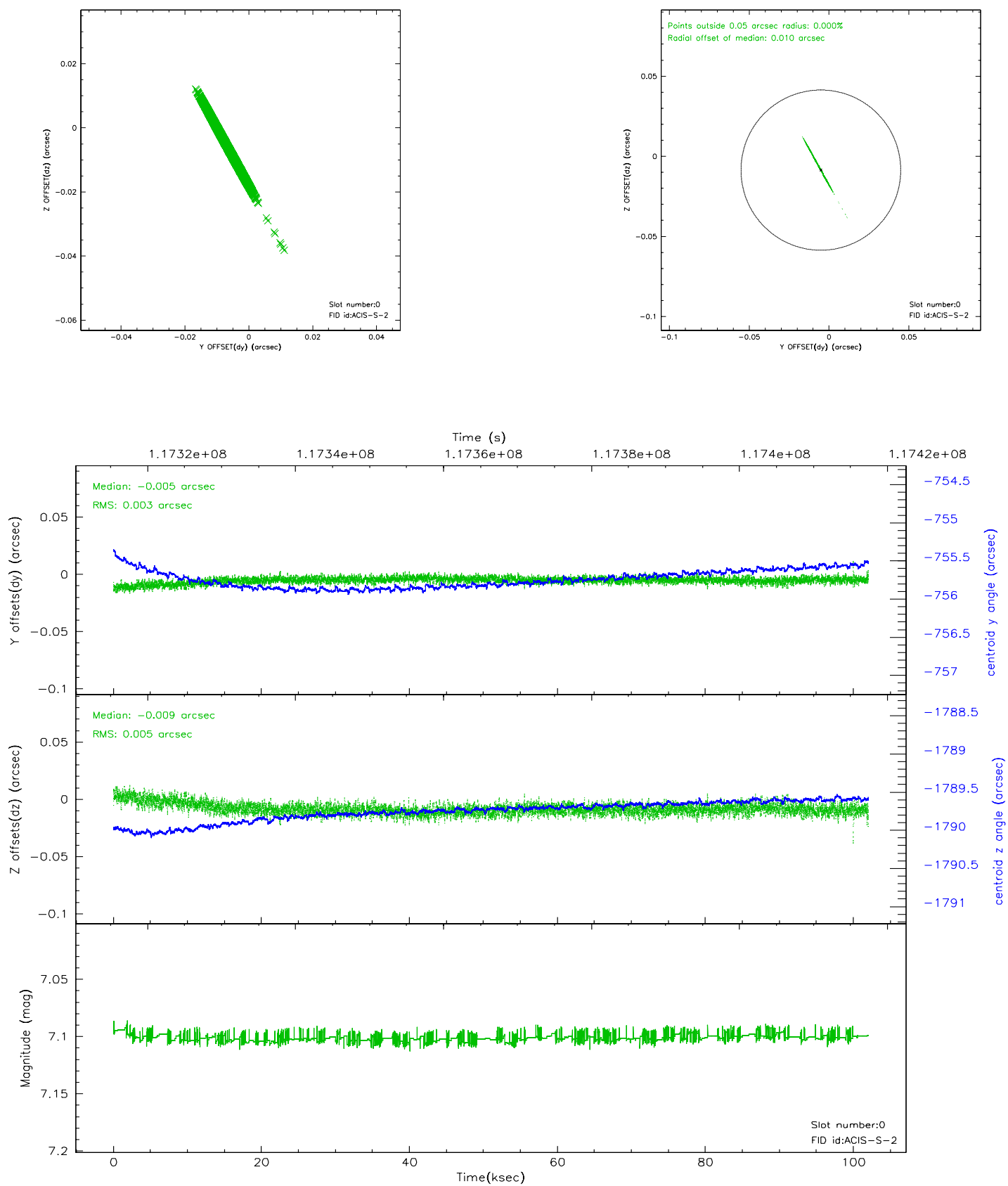


2.4.4 Slot 6

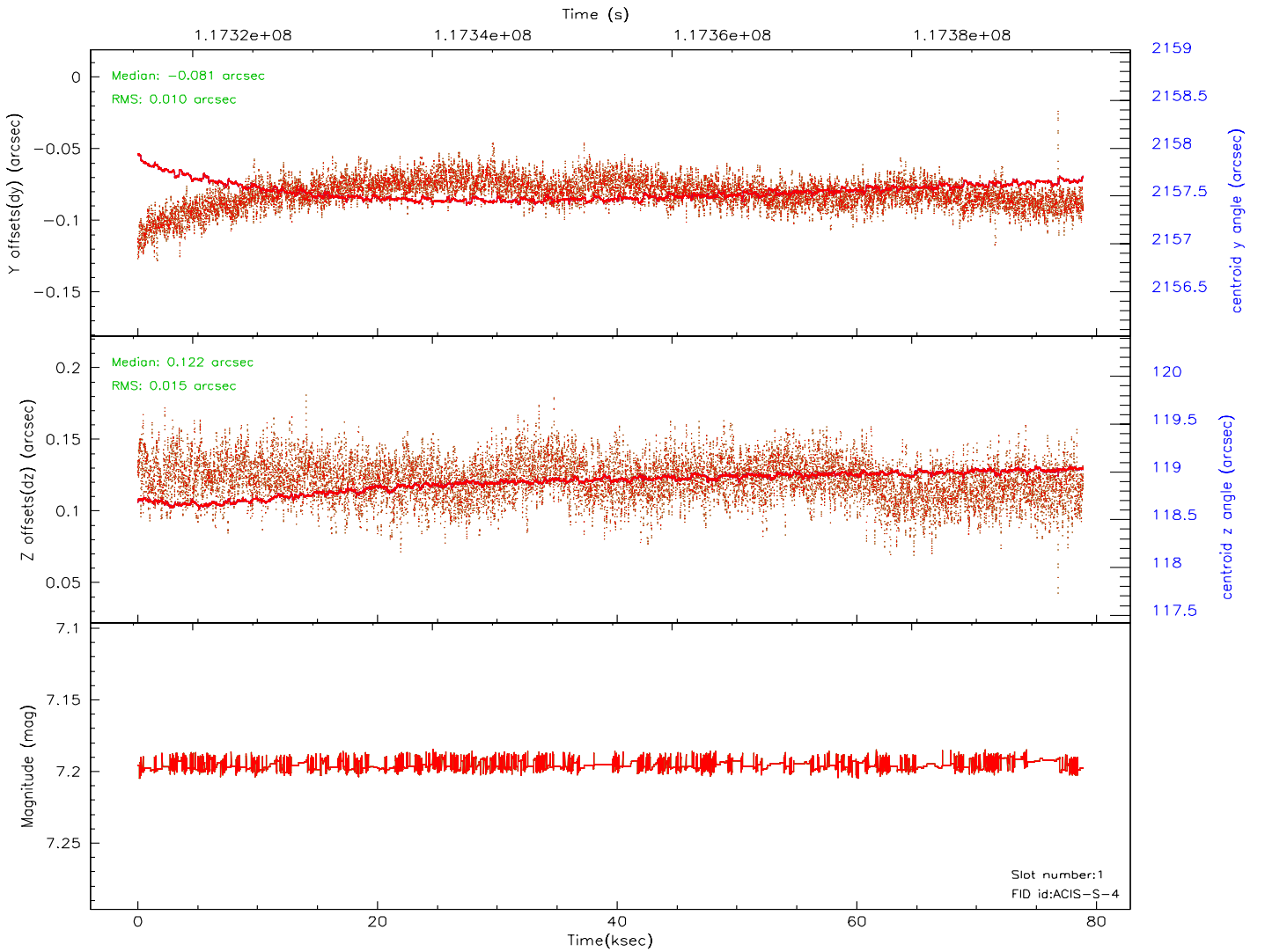
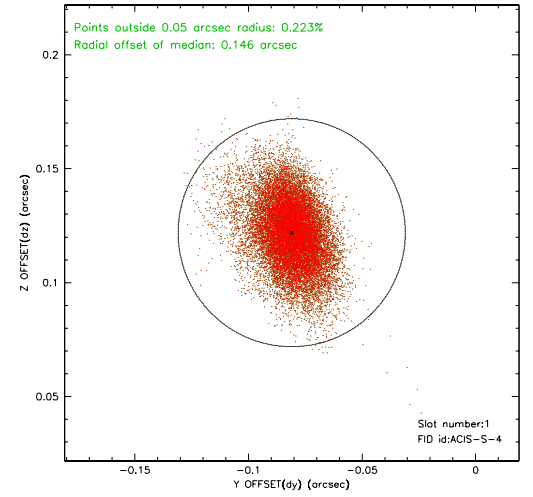
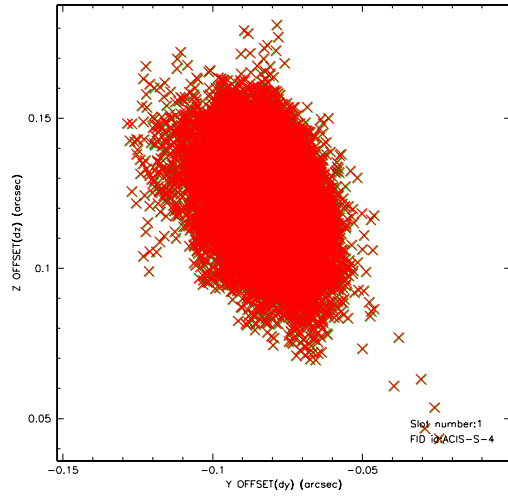


2.5 FID Slots

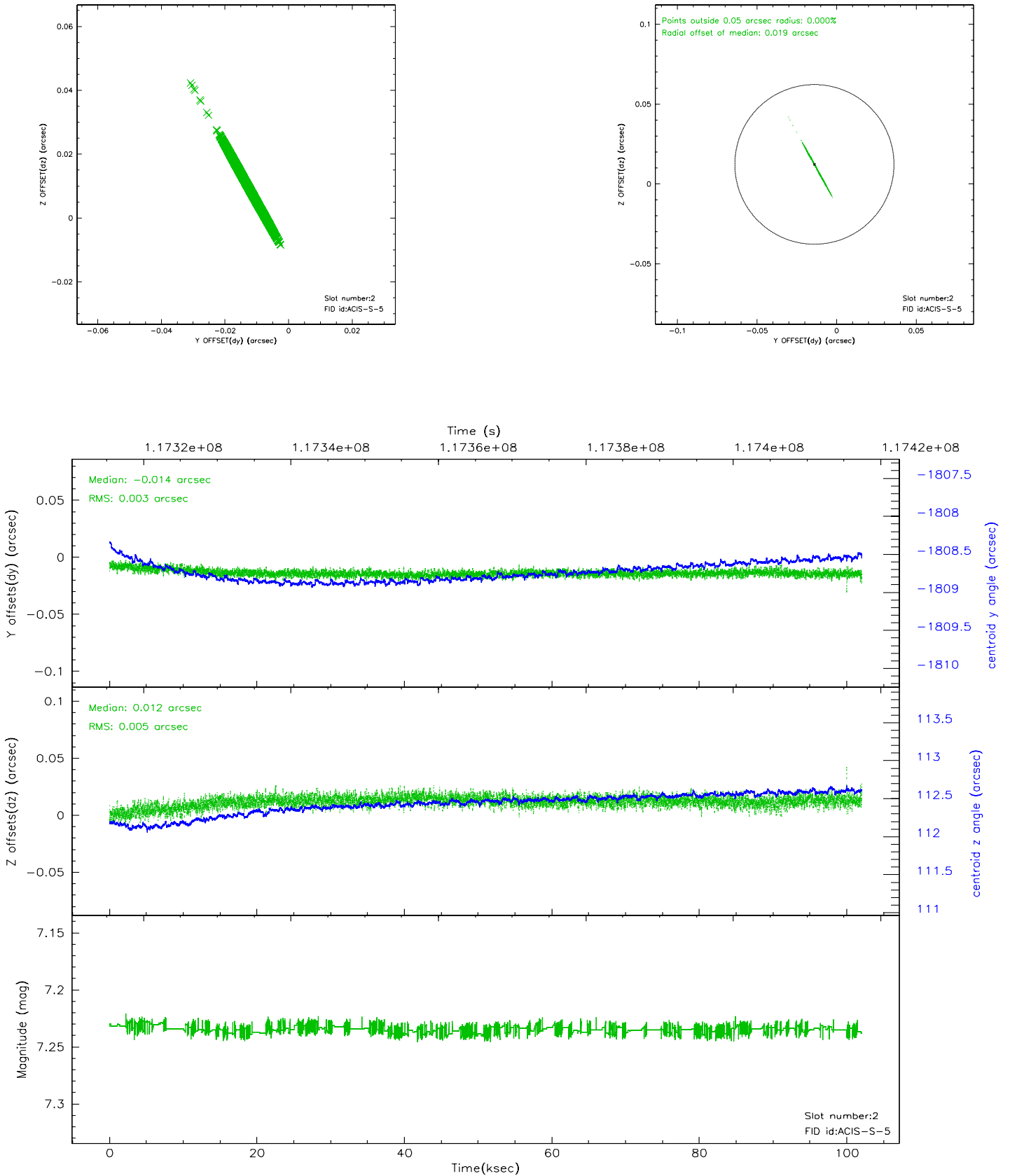
2.5.1 Slot 0



2.5.2 Slot 1

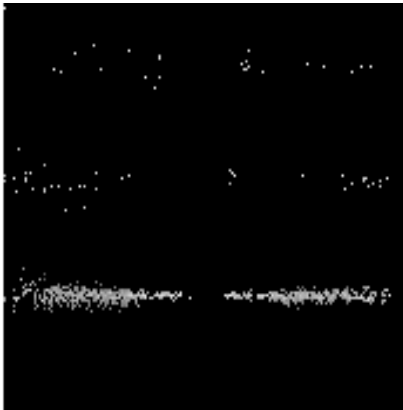


2.5.3 Slot 2

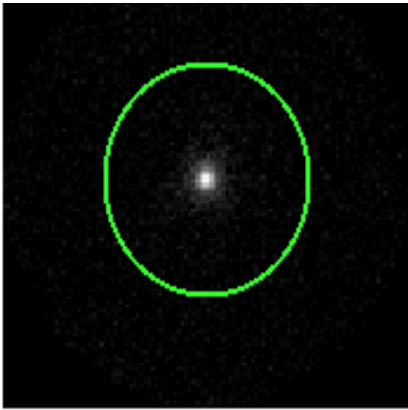


3 Gratings

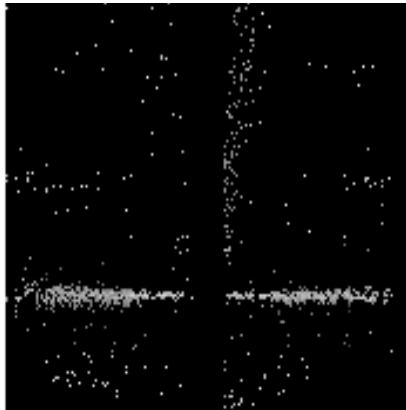
3.1 HEG Arm



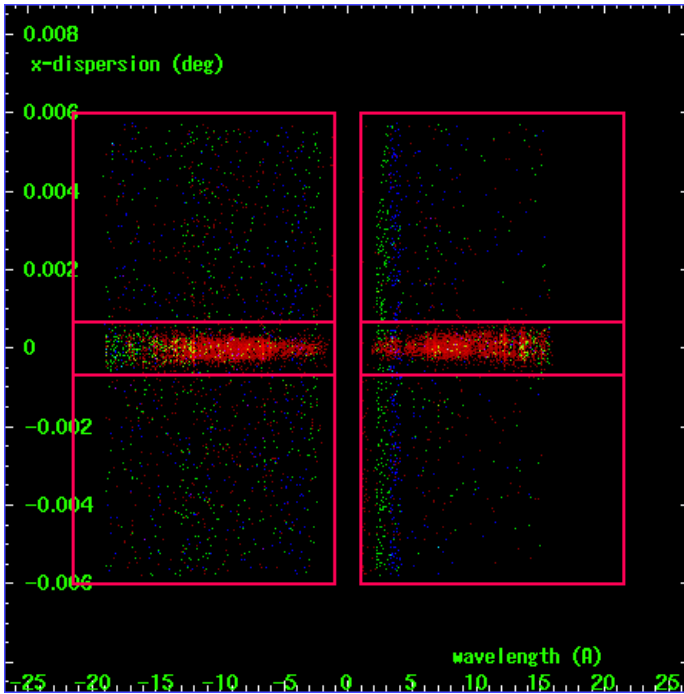
HEG Order Sort 123



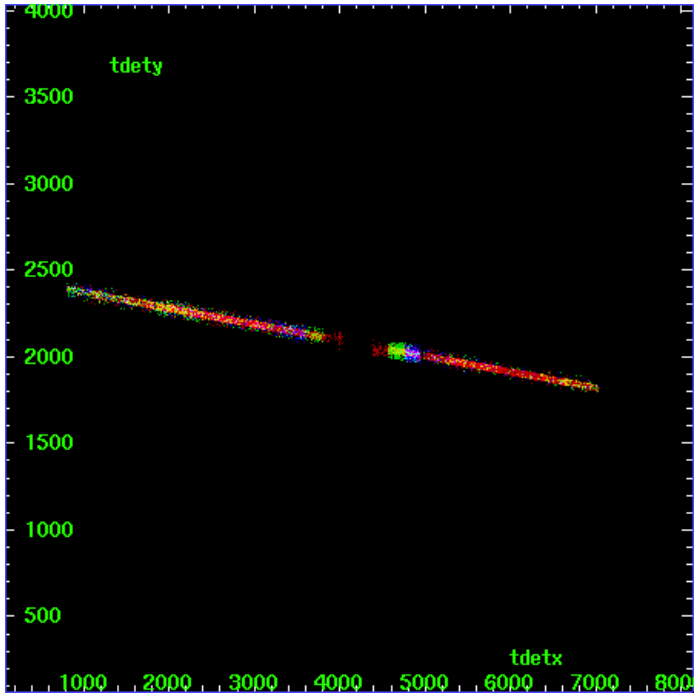
HEG Zero Order



HEG Order Sort ALL

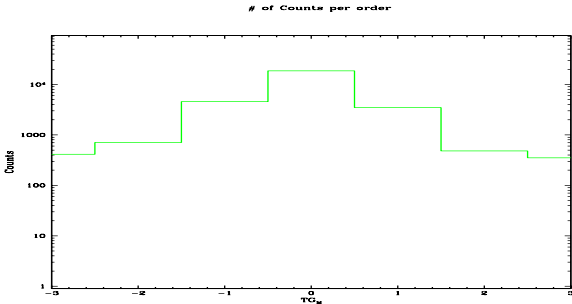


Spot Image HEG

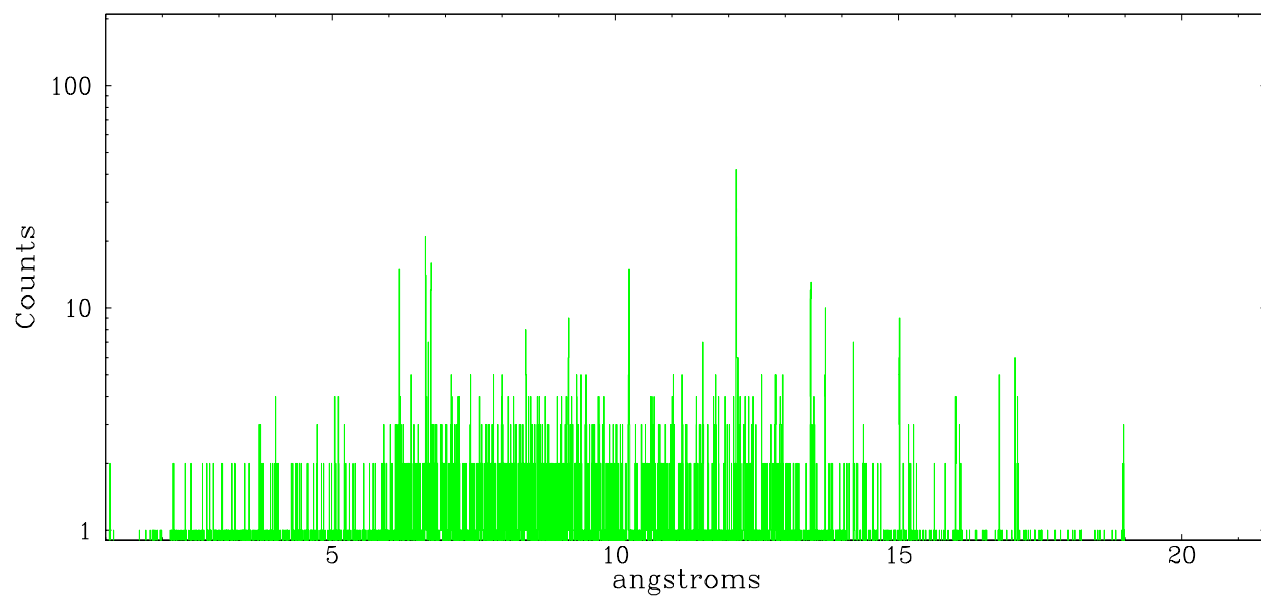


Full Detector HEG

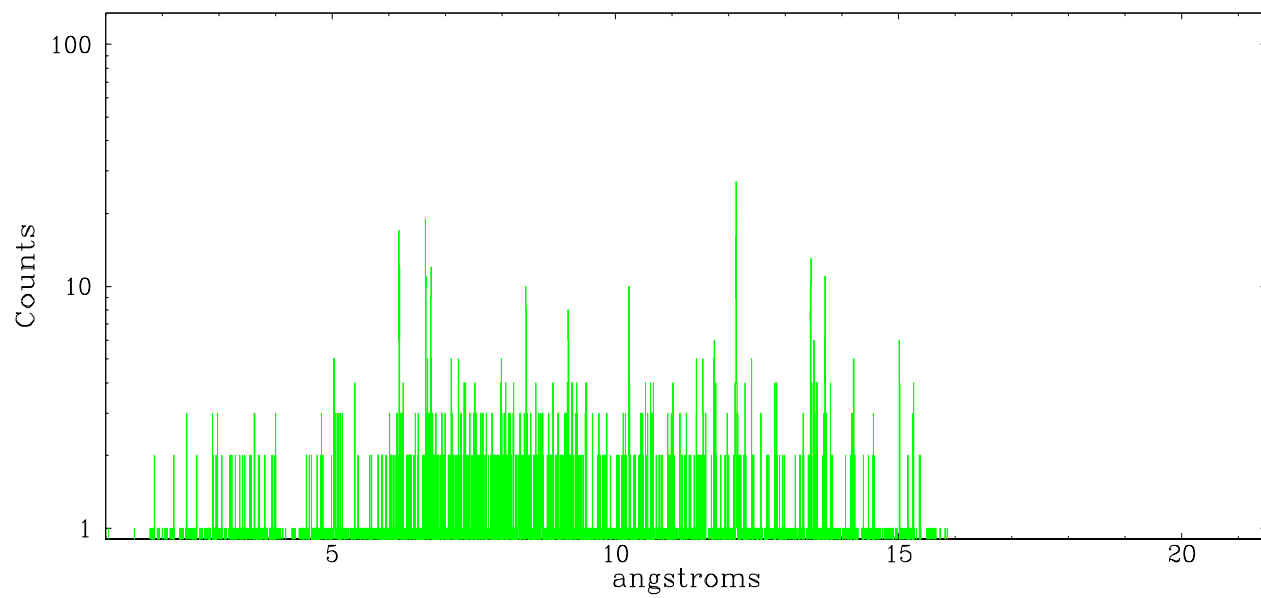
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	413	705	4564	18546	3490	483	351



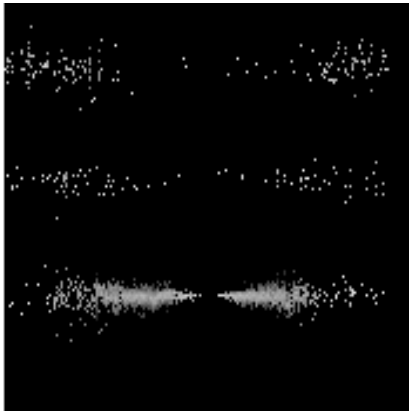
heg order -1



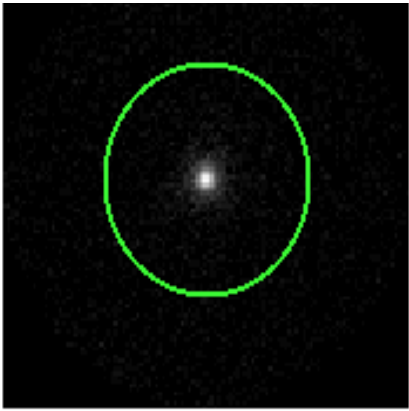
heg order +1



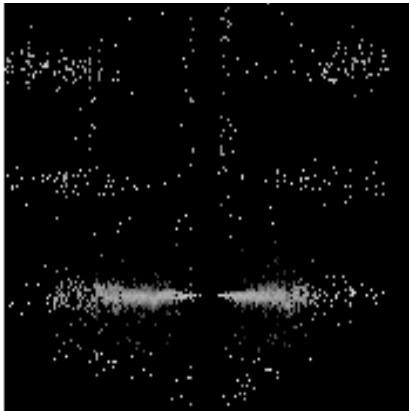
3.2 MEG Arm



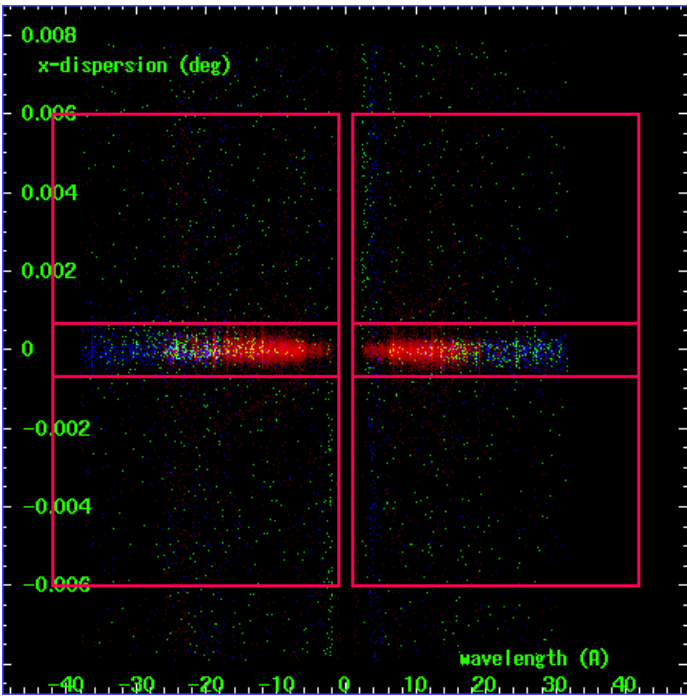
MEG Order Sort 123



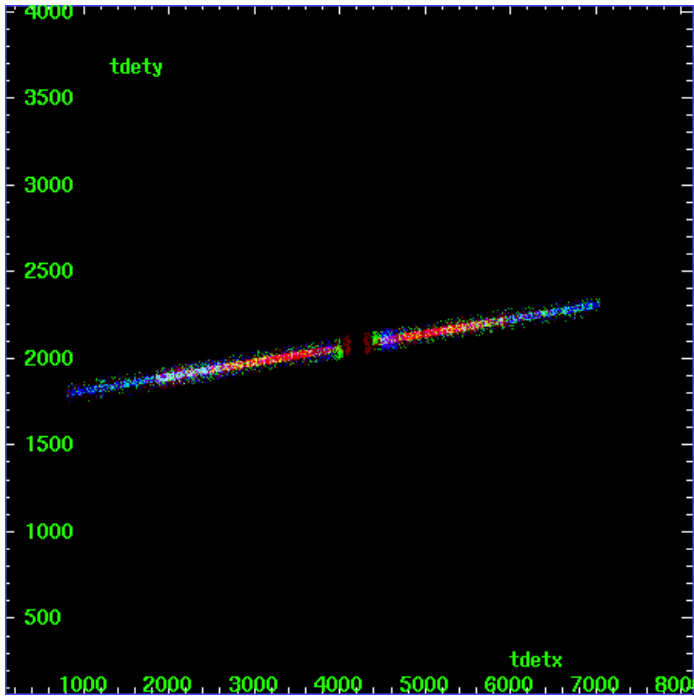
MEG Zero Order



MEG Order Sort ALL

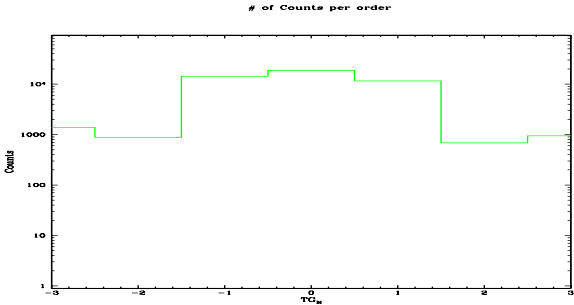


Spot Image MEG

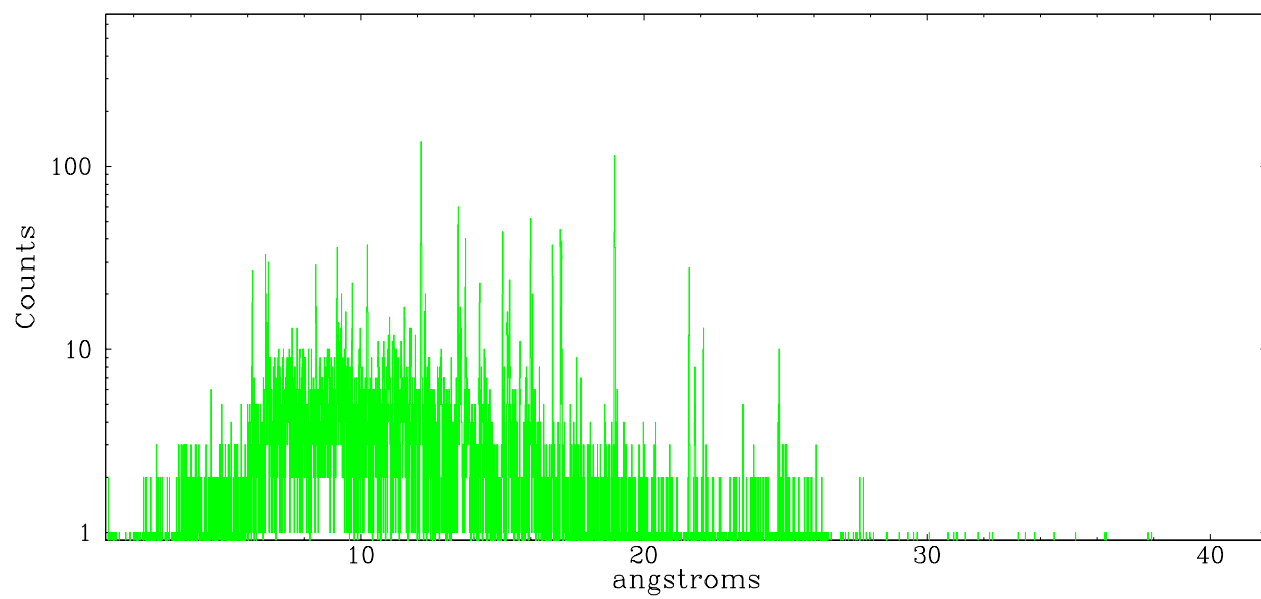


Full Detector MEG

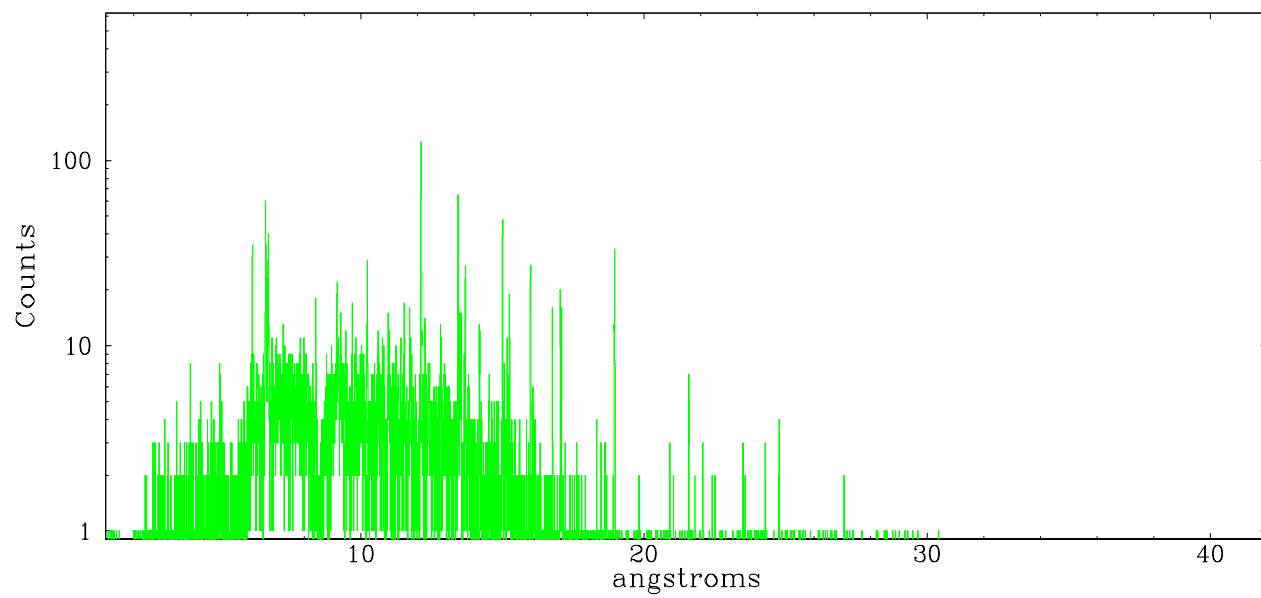
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1384	882	14256	18546	11596	683	941



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.01.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	101.343

A.2 Comments

Coordinated with HST, NOAO, VLA, MERLIN

Time constraint met.

Charge time for this ObsId remains at original value of 101.30576 ks, although with the current processing the charge time would have been 101.343 ksec.

One fid light in slot 1 and one guide star in slot 7 were removed from the aspect solution due to poor data quality. The aspect solution is not expected to be degraded by removing the fid light and the star from the solution.