

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2570 - L2 Version 001
Chandra X-Ray Center

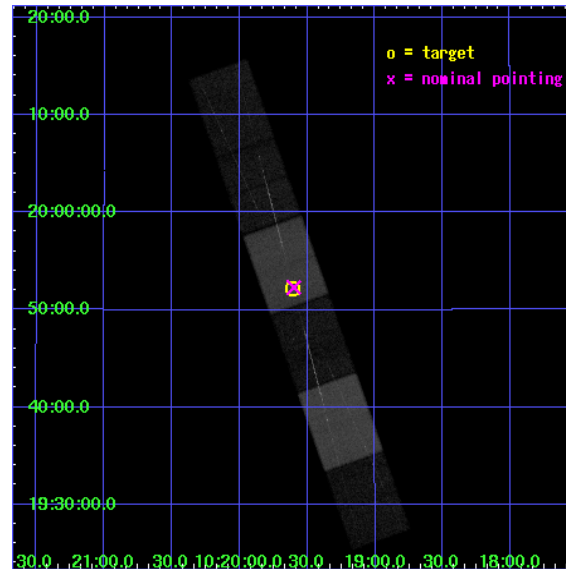
L2 Processing Date : Sep 18 2006

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1 Front

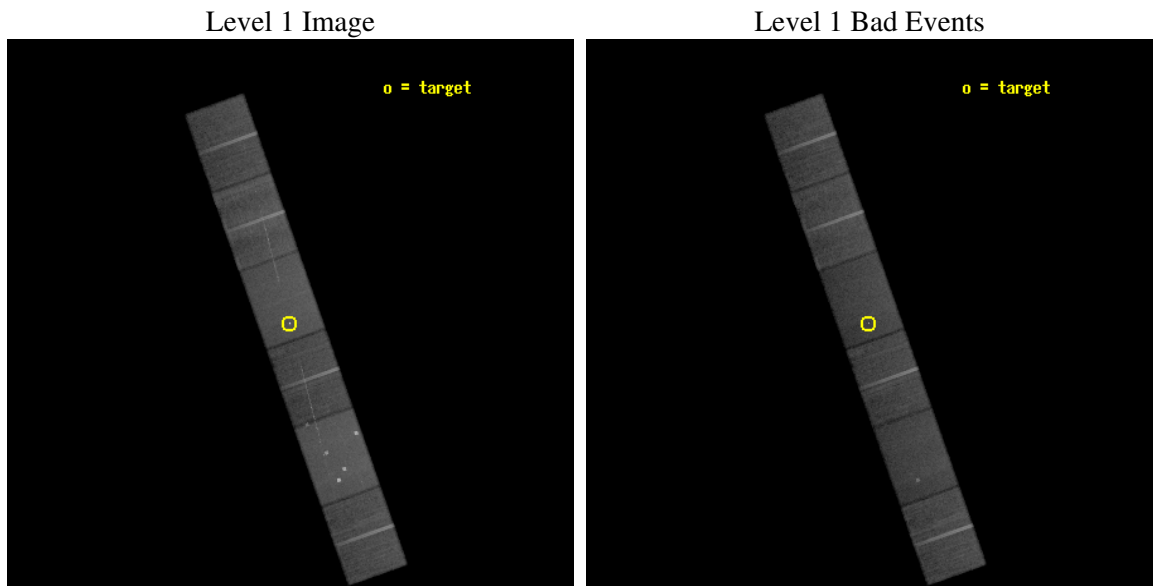
seq_num	200178
obs_id	2570
title	CORONAL DYNAMICS AND THE COMPLETE FLARE ENERGY BUDGET FOR THE M DWARF FLARE STAR AD LEO
observer	DR. Alexander Brown
object	AD_LEO
dtcycle	0
cycle	P
ra_targ	154.900917
dec_targ	19.869889
ra_nom	154.89974744832
dec_nom	19.871822005948
roll_nom	250.53653320041
revision	2
ontime	45897.5
livetime	45156.21556528
ontime4	45897.5
ontime5	45897.5
ontime6	45897.5
ontime7	45897.5
ontime8	45894.959009826
ontime9	45894.959009826
l2events	358587



2 OBI

2.1 OBI

2.1.1 Images

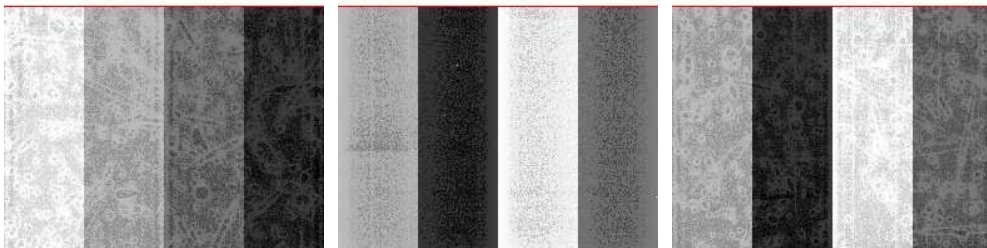


2.1.2 Bias

Chip 4

Chip 5

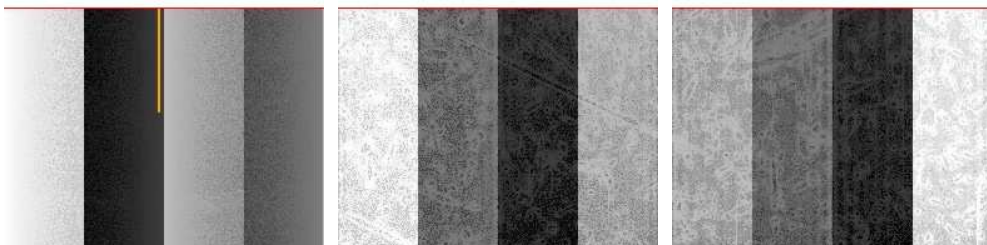
Chip 6



Chip 7

Chip 8

Chip 9



2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-18T03:04:51
revision	2

sched_exp_time	46000.000000
ontime	45903.317854404
ontime4	45903.317824483
ontime5	45903.317824483
ontime6	45903.317824483
ontime7	45903.317854404
ontime8	45900.776834309
ontime9	45900.776834309
l1events	1647751

2.1.4 Events

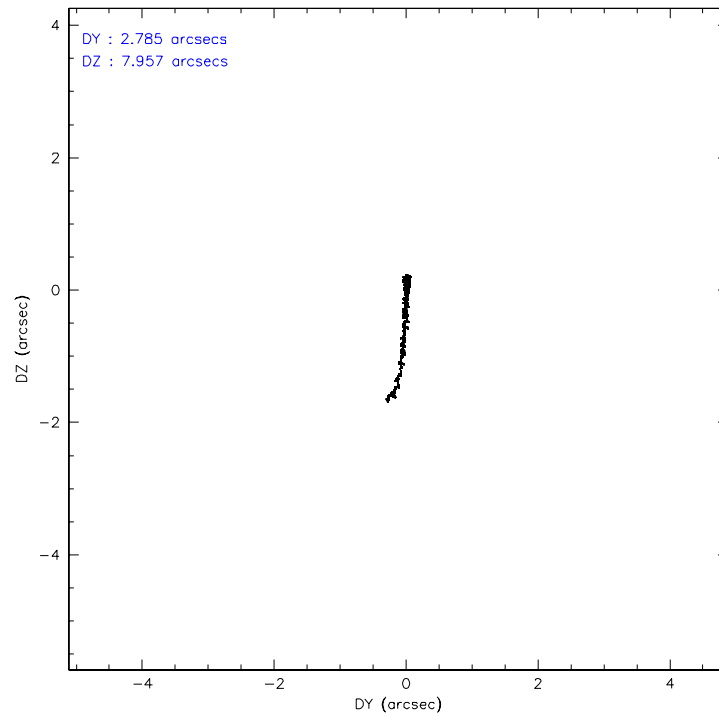
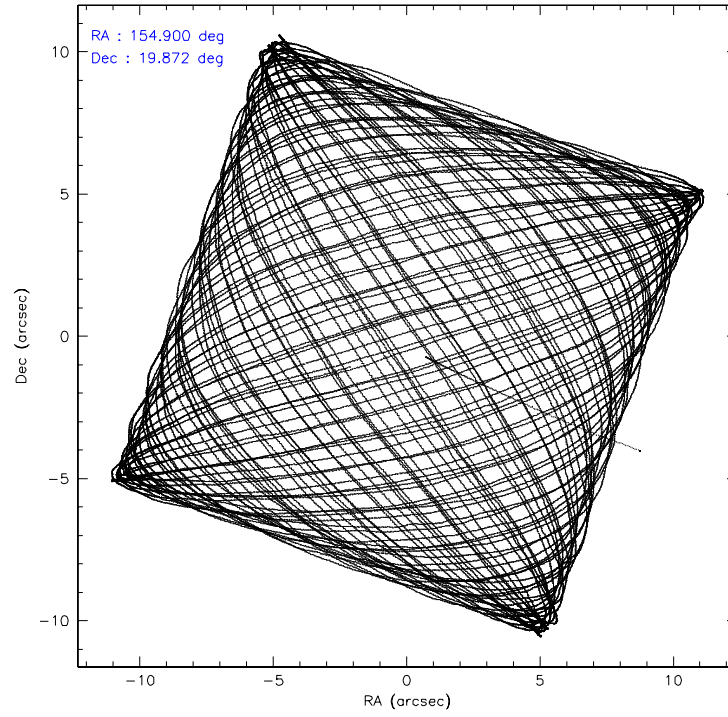
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	250202	344865	231960	301795	292961	225968
rejected events	221858	181997	201976	177957	228989	198069
rejected %	88%	52%	87%	58%	78%	87%

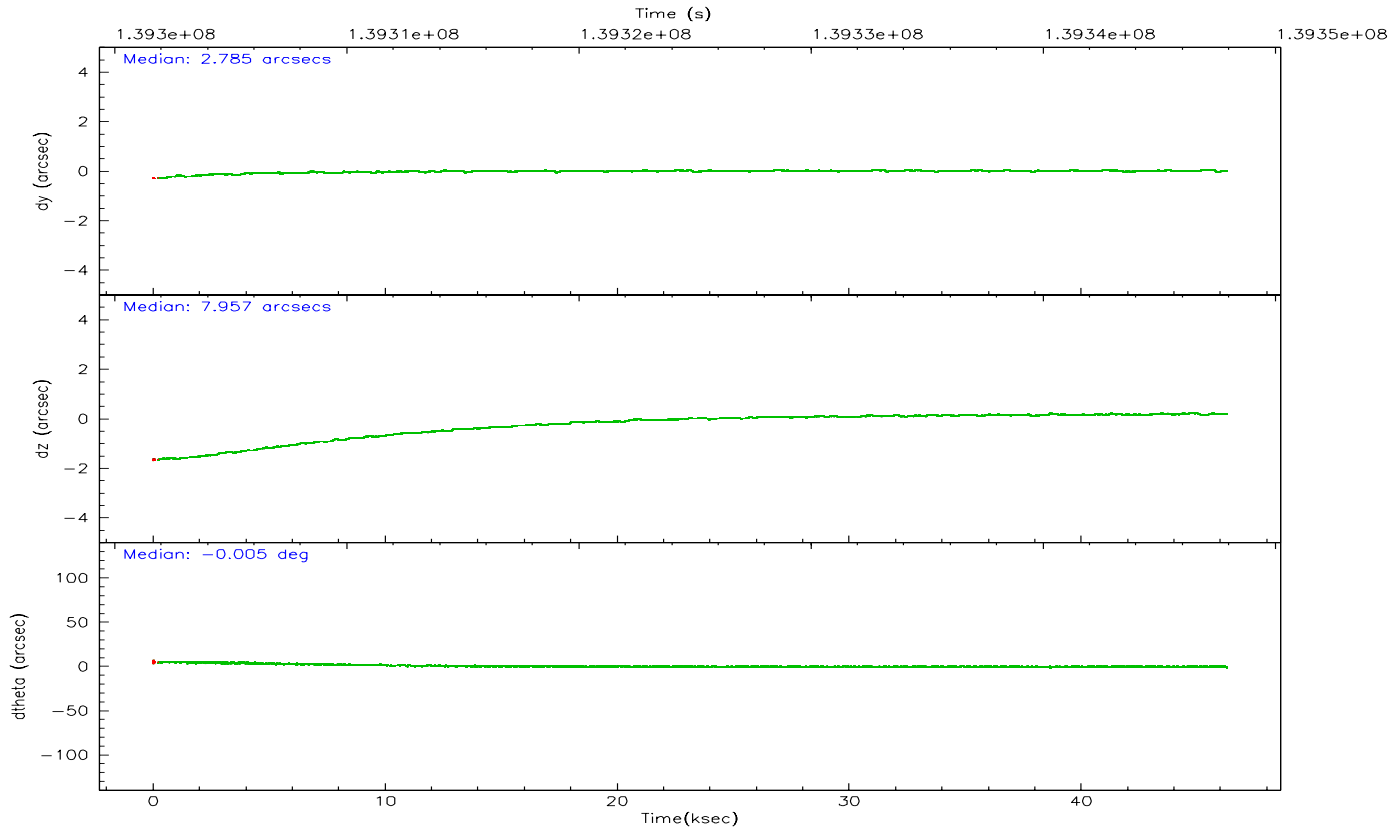
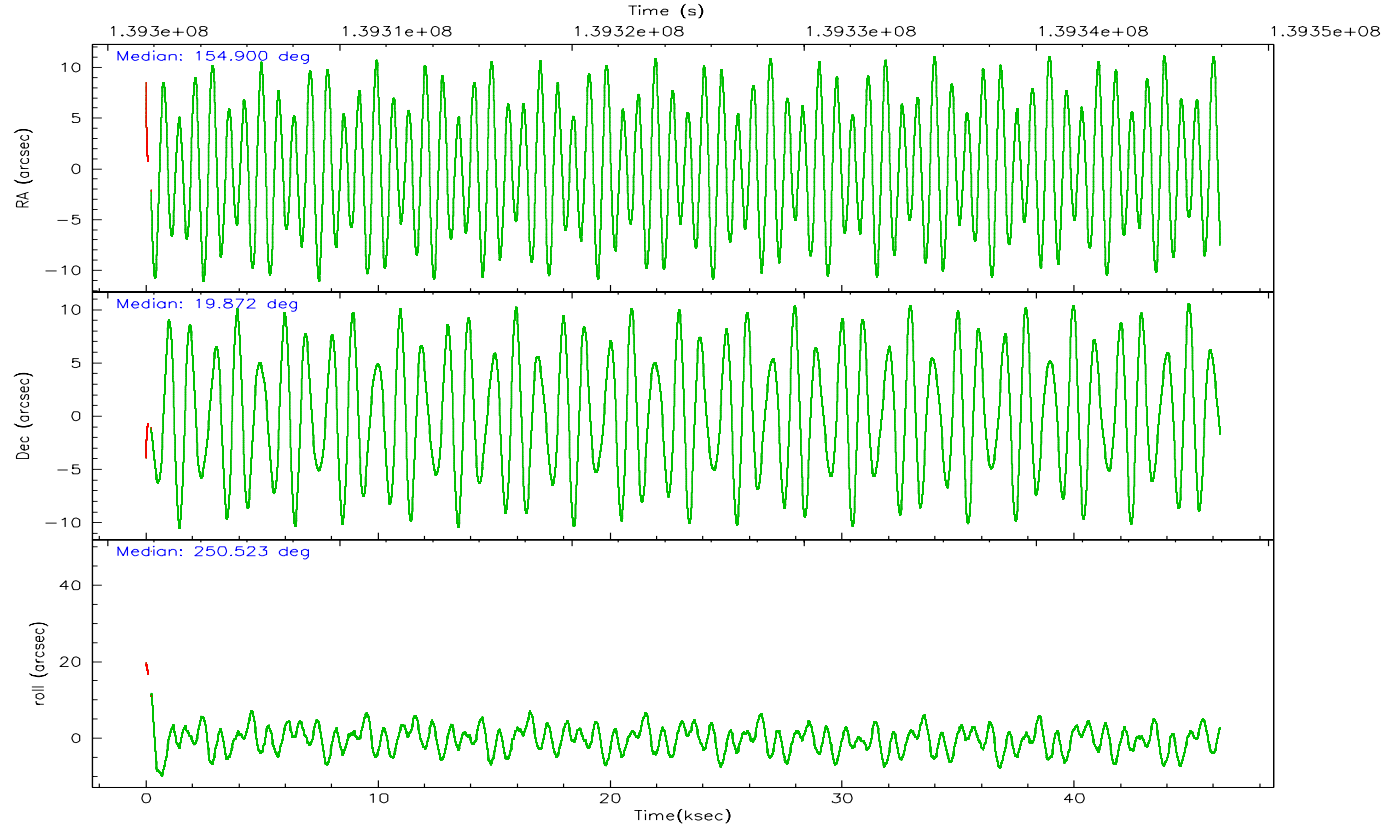
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	11331	29835	13247	9537	21461	11350
	4%	8%	5%	3%	7%	5%
grade 1 events	104	1328	103	330	151	70
	0%	0%	0%	0%	0%	0%
grade 2 events	6637	44326	5650	29771	13369	5553
	2%	12%	2%	9%	4%	2%
grade 3 events	2699	4012	3008	7944	6800	2942
	1%	1%	1%	2%	2%	1%
grade 4 events	2726	3799	2880	7751	6324	2818
	1%	1%	1%	2%	2%	1%
grade 5 events	8435	15899	9685	21491	12271	9809
	3%	4%	4%	7%	4%	4%
grade 6 events	4956	80919	5200	68841	16022	5239
	1%	23%	2%	22%	5%	2%
grade 7 events	213314	164747	192187	156130	216563	188187
	85%	47%	82%	51%	73%	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	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	154.894086	154.8997474483164	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	19.898541	19.87182200594788	Subarray start row	1	1
Pointing Roll	250.381828	250.5365332004078	Subarray row count	774	774
Window start time	138844924.184000	138844924.184000	Alternating exposures requested	N	N
Window stop time	139449604.184000	139449604.184000	Primary exposure time	0.000000	2.5
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1254020033014			
SIM translation stage offset (mm)	-3	-3.007120579706367			
Observation start time	139301945.184000	139300918.80388			
Observation start date	2002-06-01T06:58:01	2002-06-01T06:41:58			
Observation end time	139347945.184000	139348519.29332			
Observation end date	2002-06-01T19:44:41	2002-06-01T19:55:19			
Read mode	TIMED	TIMED			

2.3 Aspect



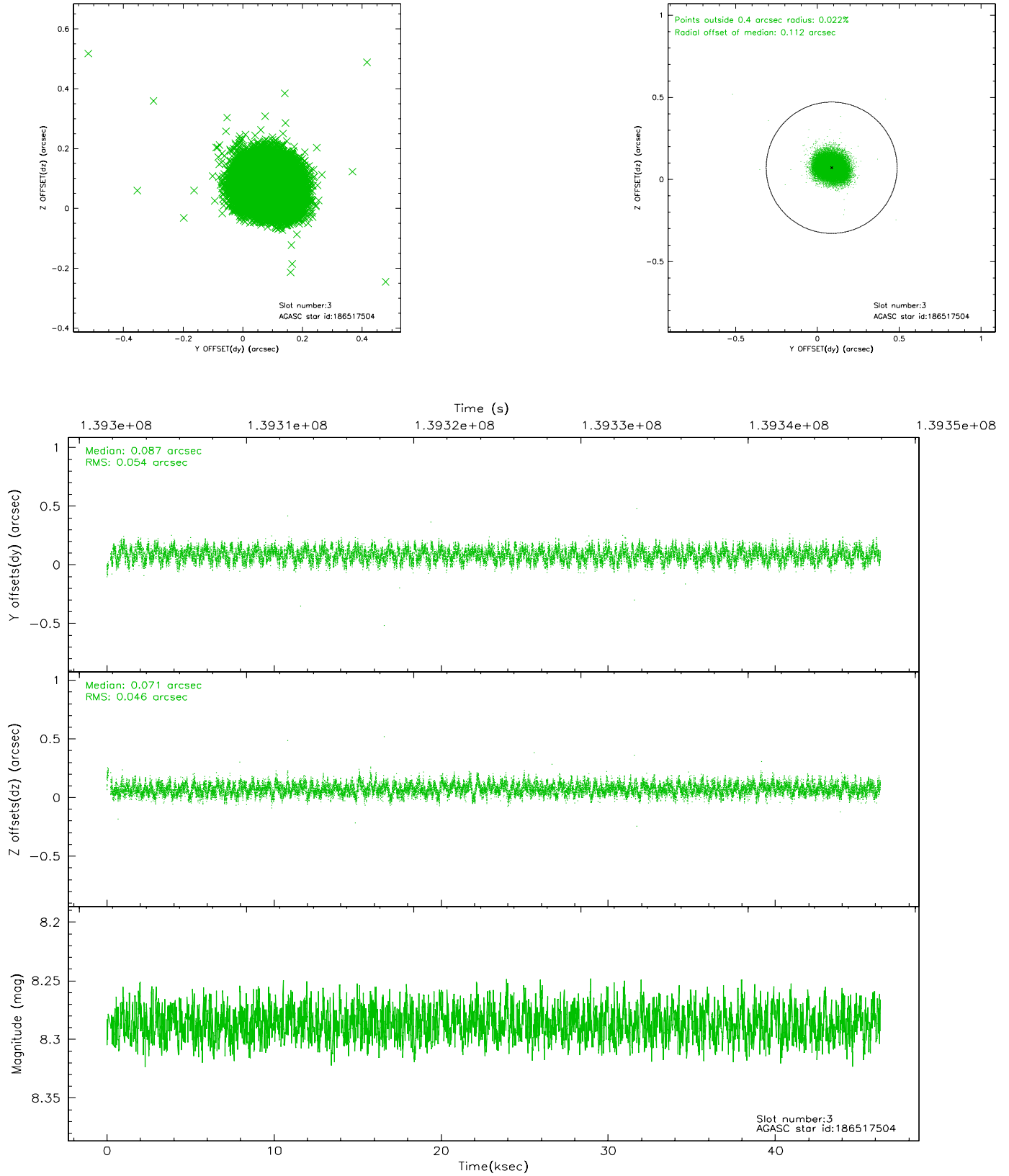


Slot Statistics

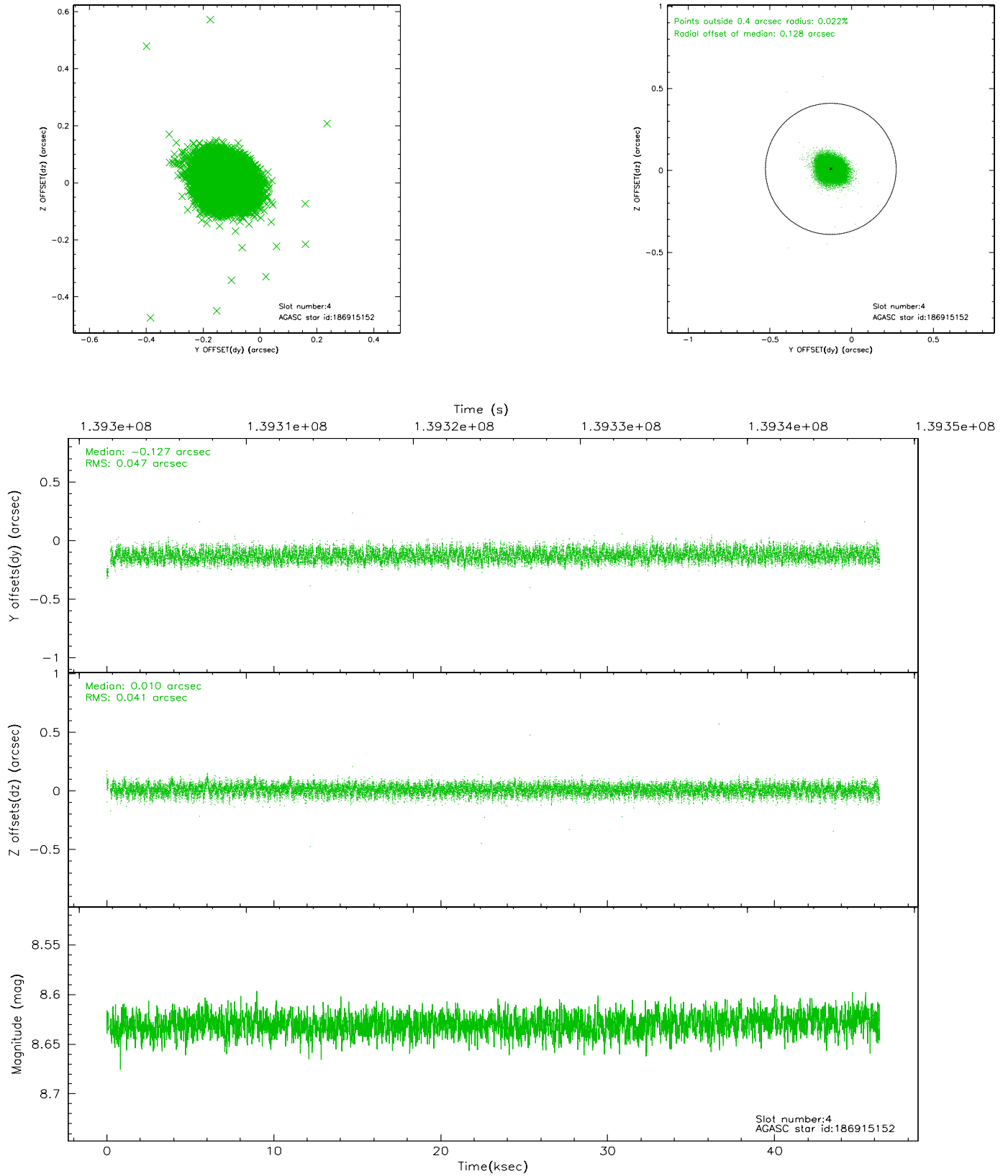
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	11254	-0.042	-0.000	0.010	0.034	0.000000	0.000000	-755.20	-1790.98
1	FID	ACIS-S-4	7.20	11252	-0.043	0.020	0.006	0.014	0.000000	0.000000	2158.04	117.58
2	FID	ACIS-S-5	7.23	11255	0.053	-0.012	0.010	0.032	0.000000	0.000000	-1808.00	111.14
3	GUIDE	186517504	8.29	22508	0.087	0.071	0.077	0.118	155.199091	19.538995	871.74	1408.96
4	GUIDE	186915152	8.63	22506	-0.127	0.010	0.066	0.105	155.481319	20.053598	-1195.33	1681.57
5	GUIDE	186517264	9.02	22504	0.026	0.055	0.093	0.153	155.474034	19.793179	-304.85	1976.37
6	GUIDE	186390704	9.30	22508	0.014	-0.135	0.083	0.133	154.186948	19.891390	824.92	-2248.06
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

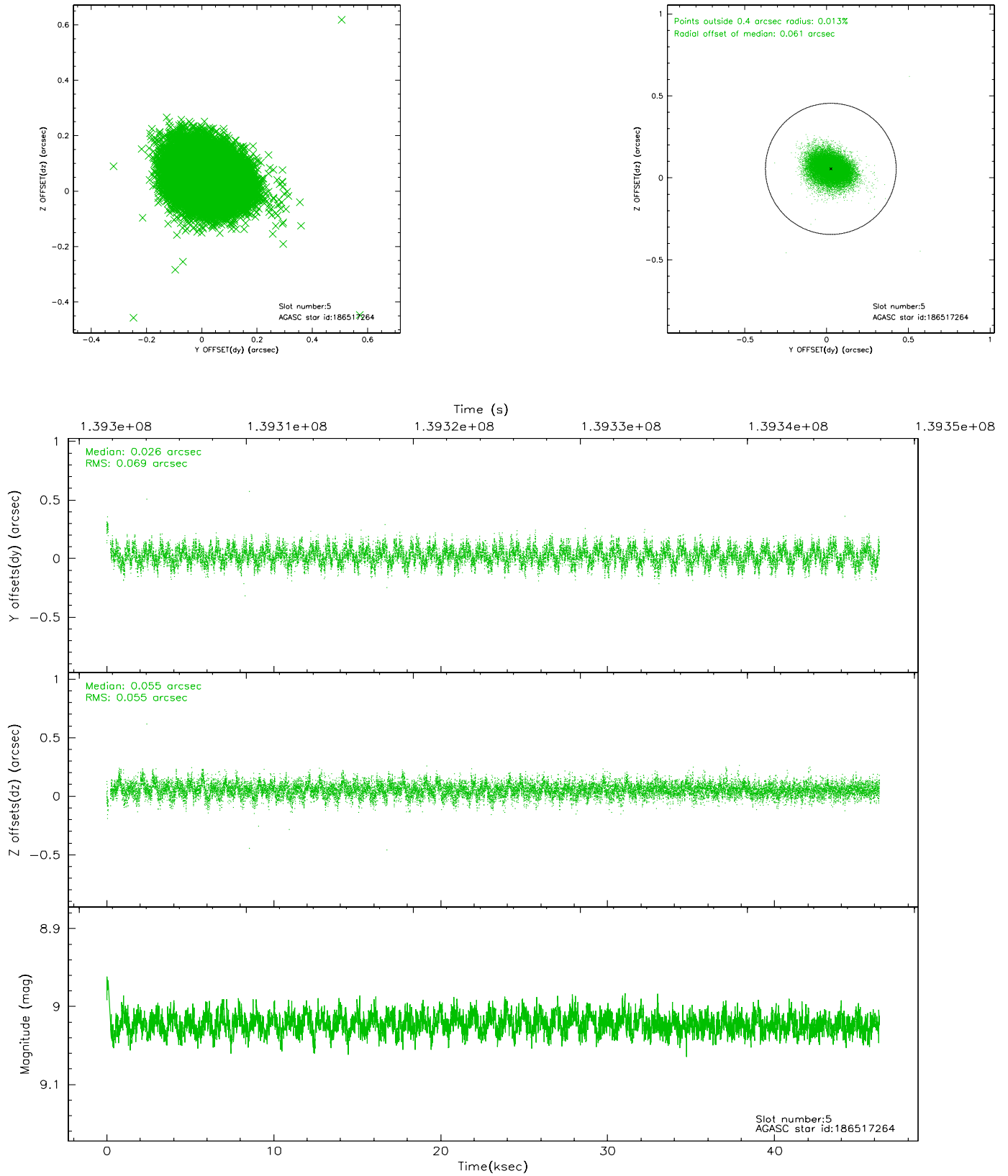
2.4.1 Slot 3



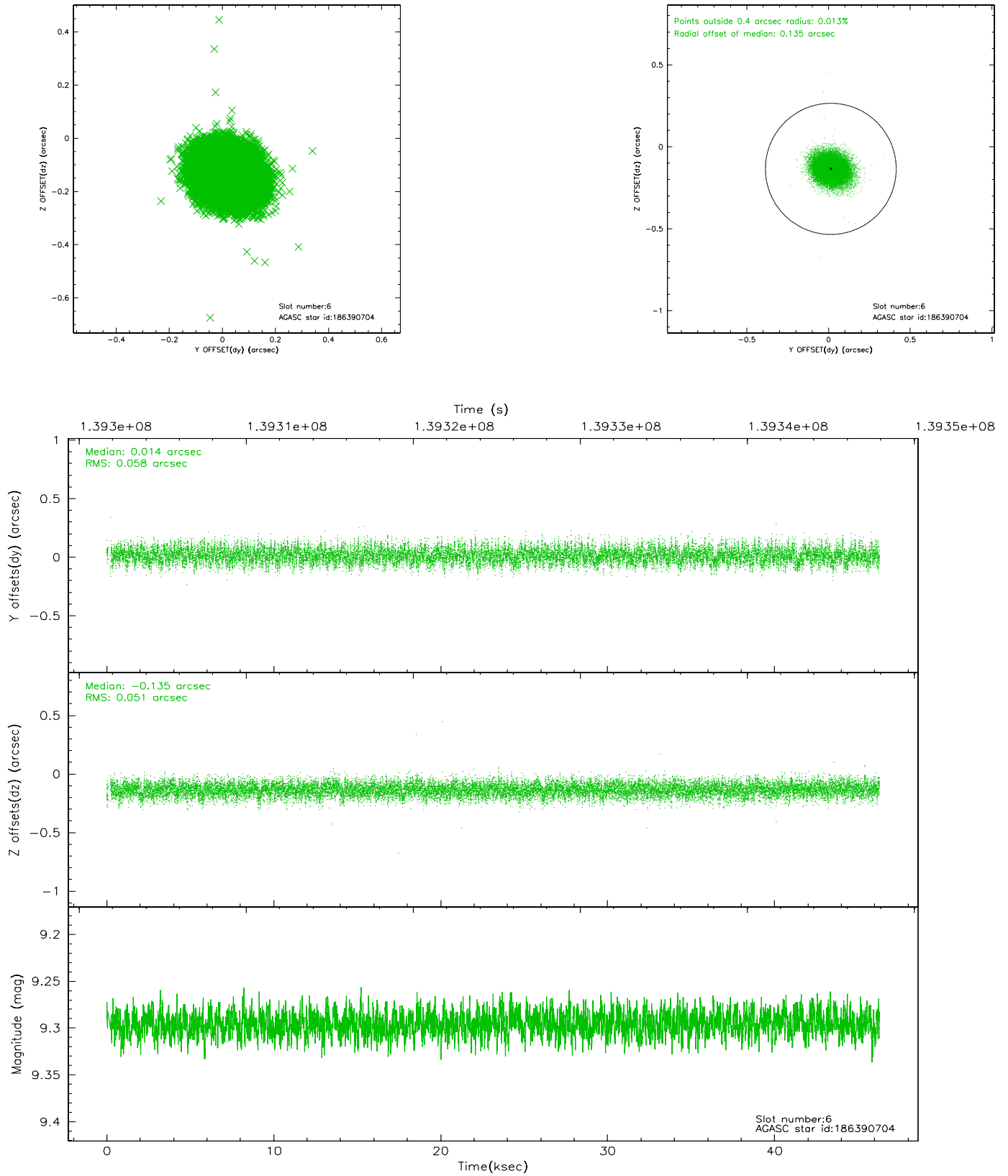
2.4.2 Slot 4



2.4.3 Slot 5

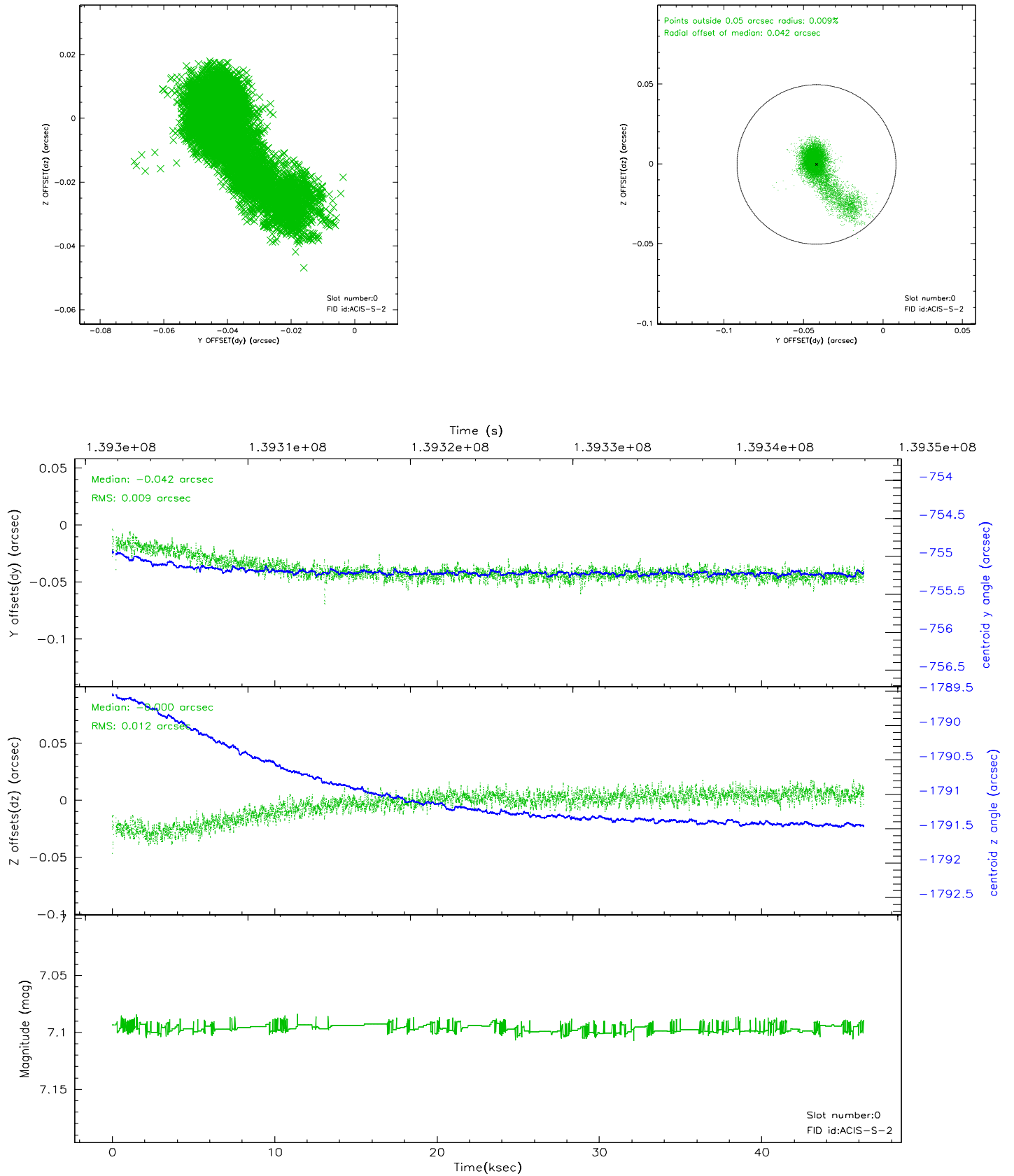


2.4.4 Slot 6

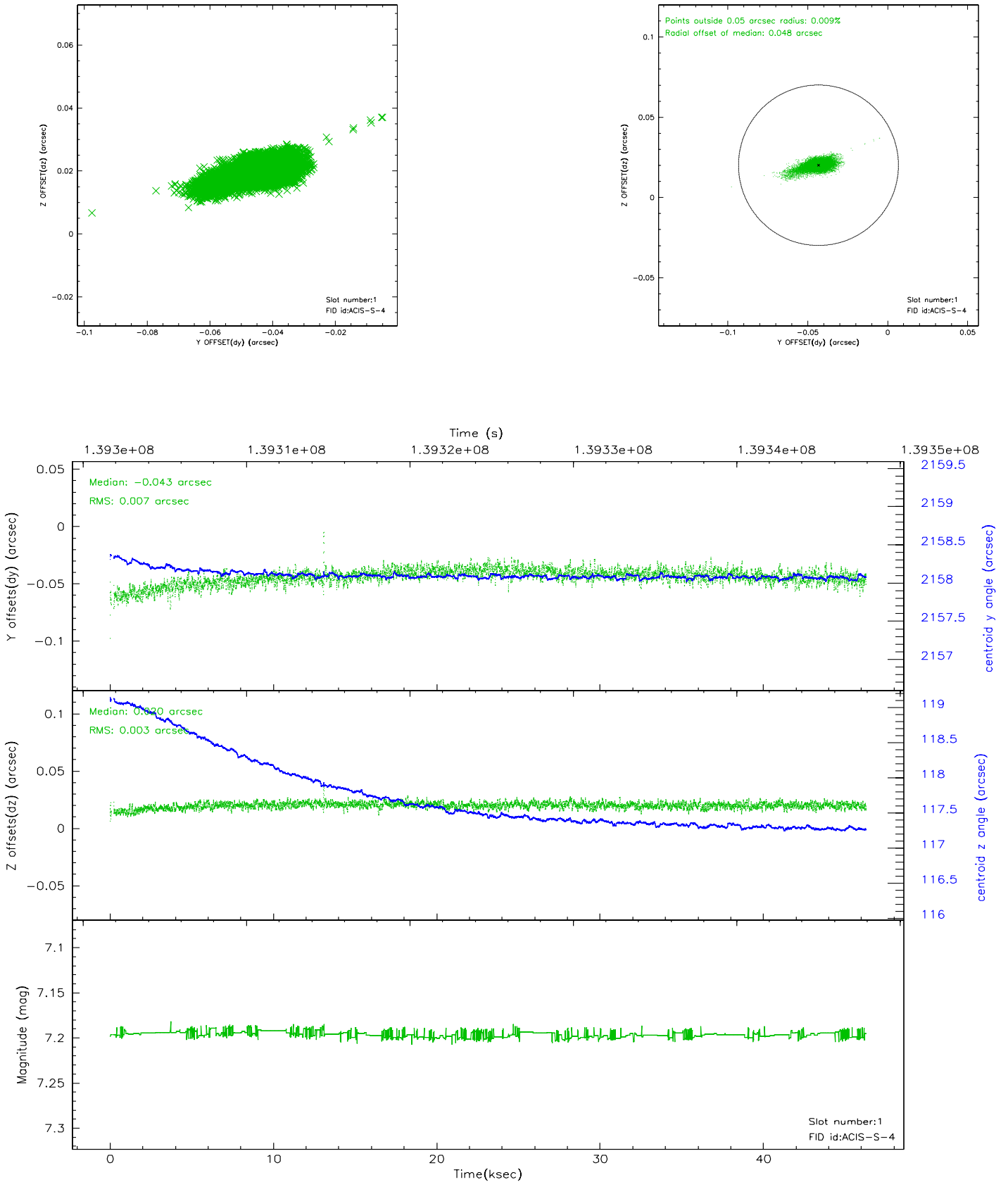


2.5 FID Slots

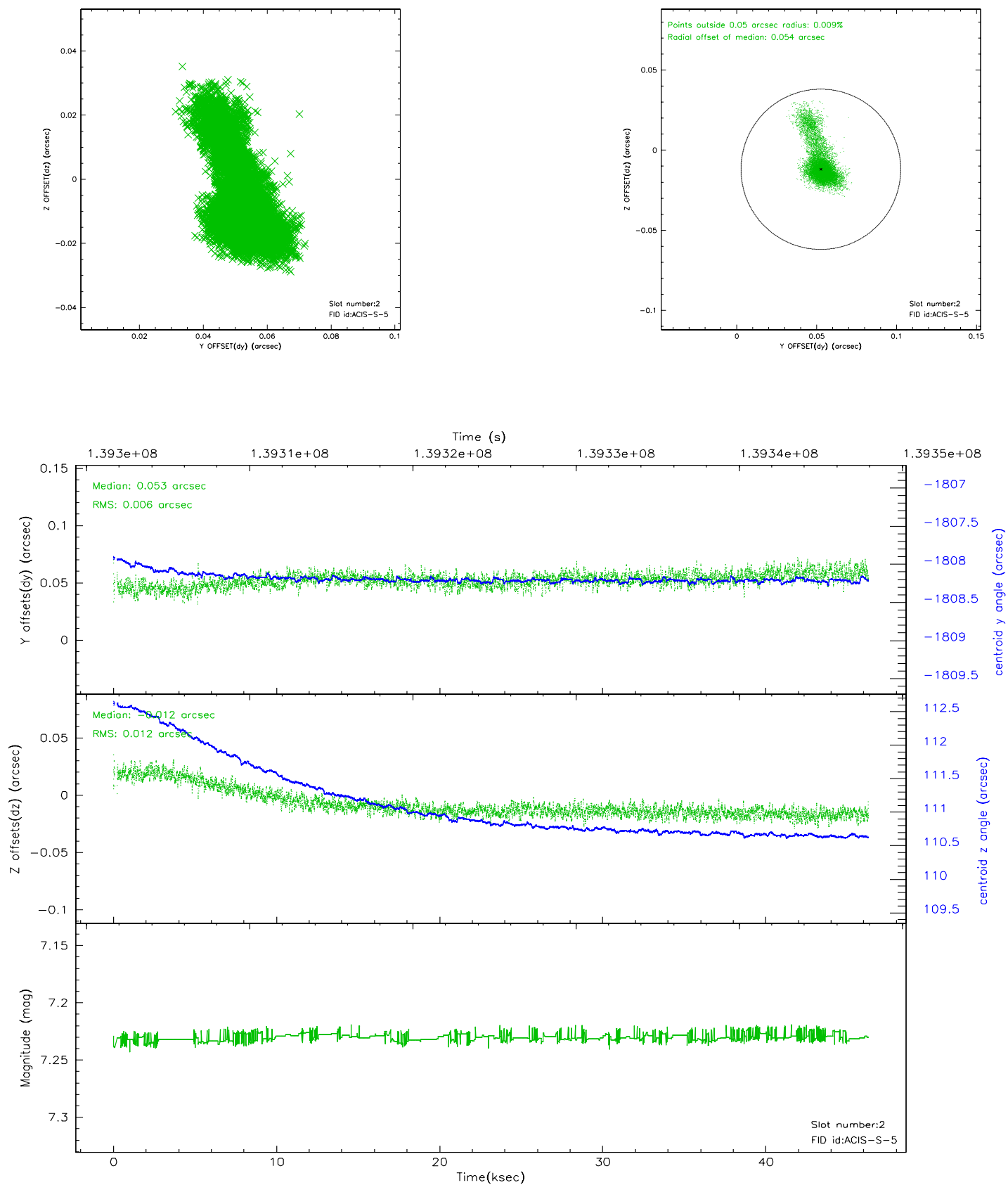
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

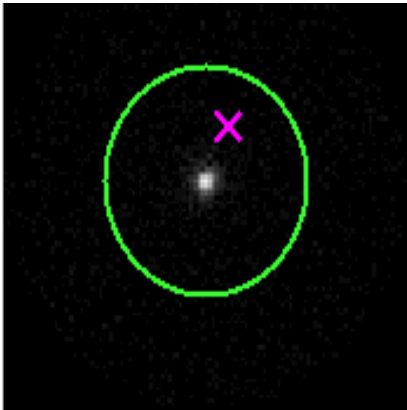


3 Gratings

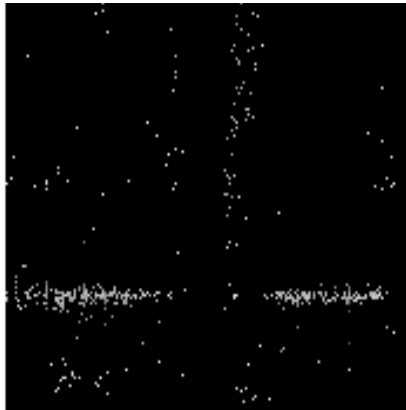
3.1 HEG Arm



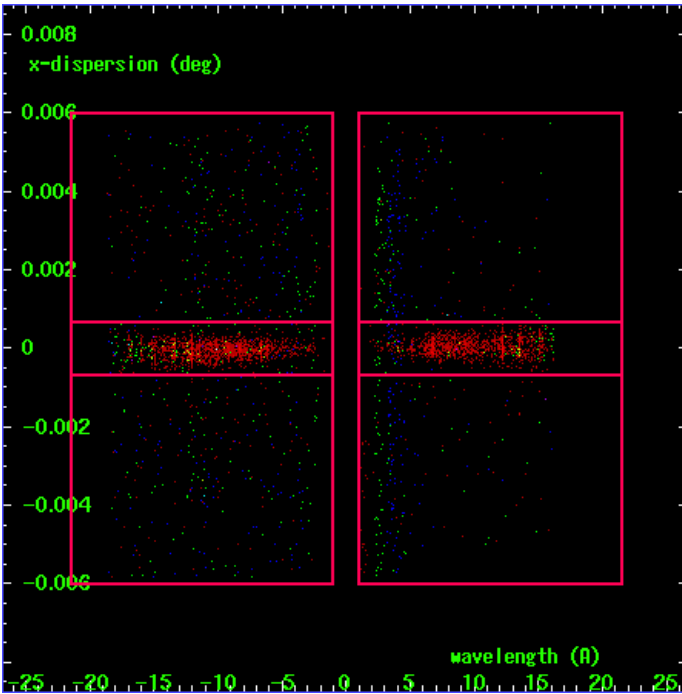
HEG Order Sort 123



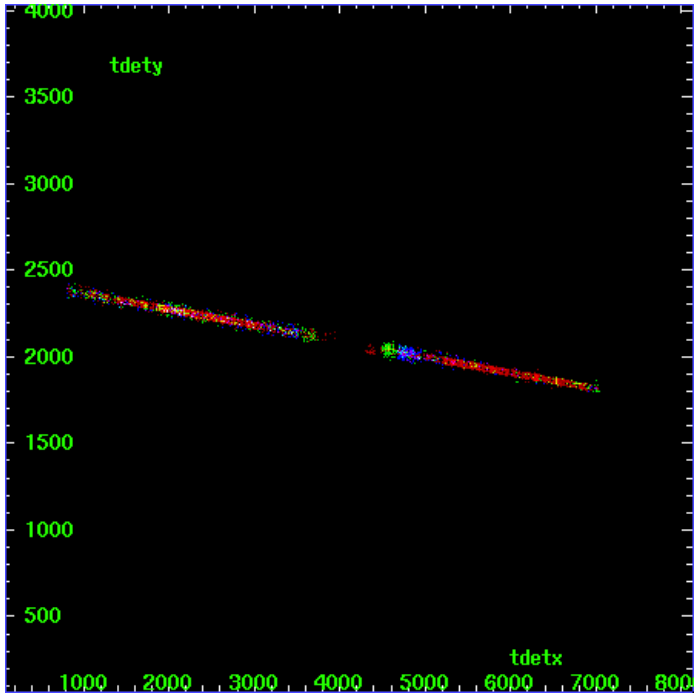
HEG Zero Order



HEG Order Sort ALL

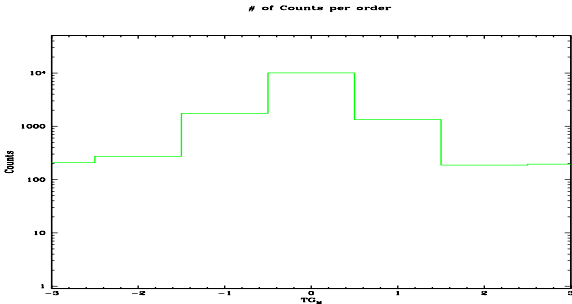


Spot Image HEG

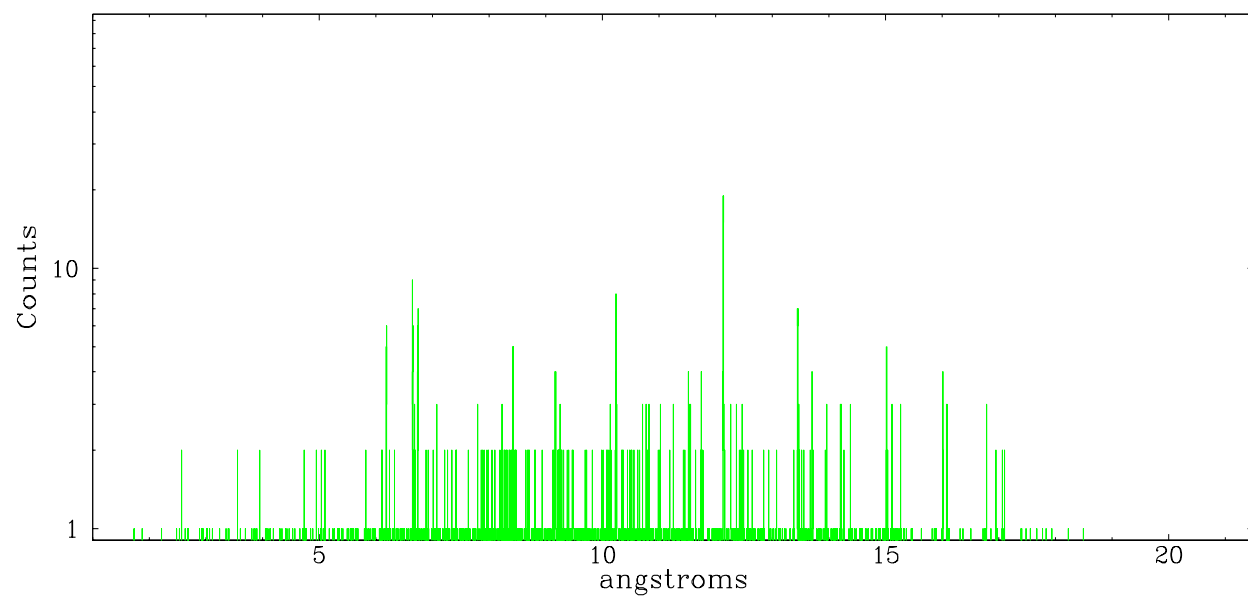


Full Detector HEG

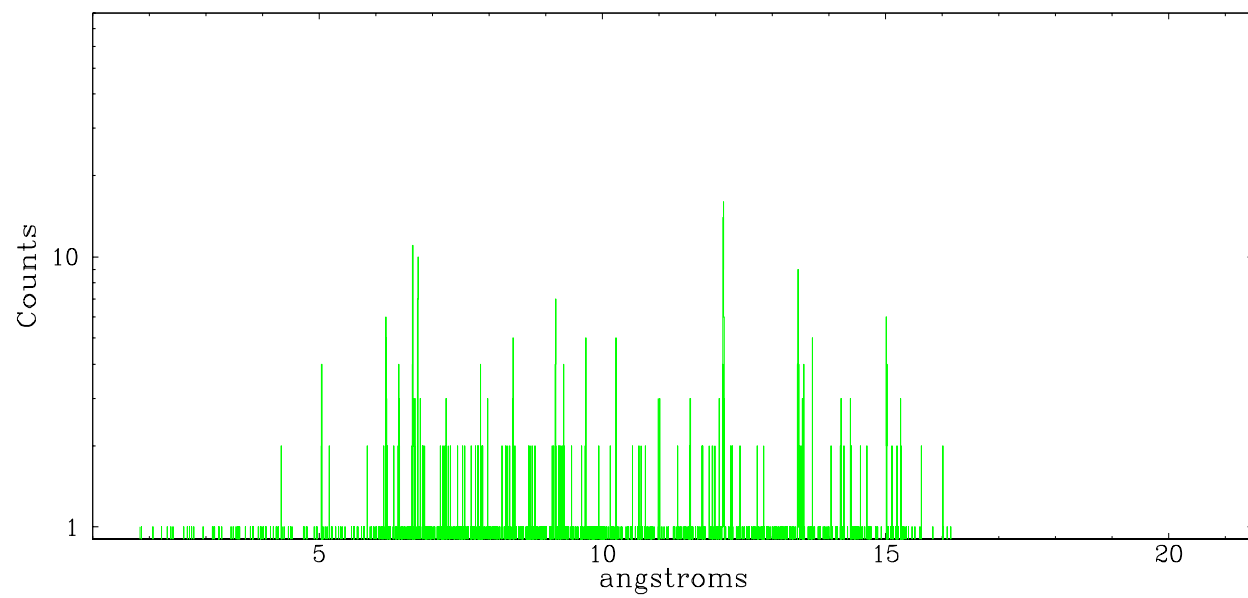
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	208	274	1749	10039	1342	187	194



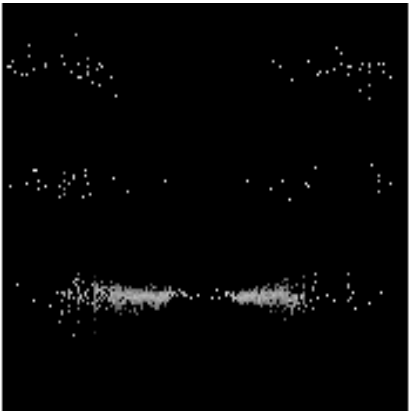
heg order -1



heg order +1



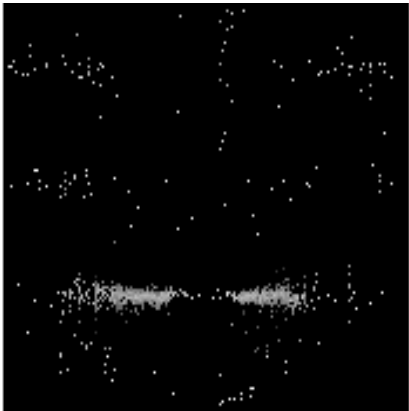
3.2 MEG Arm



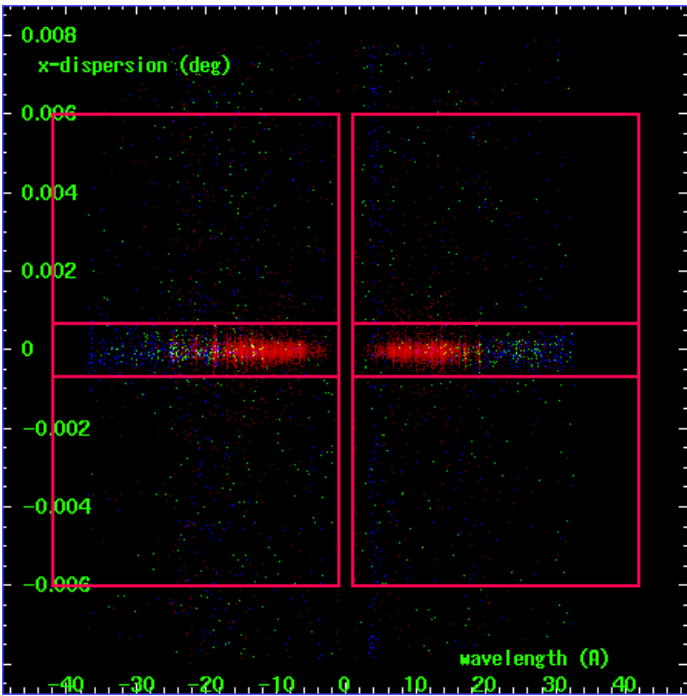
MEG Order Sort 123



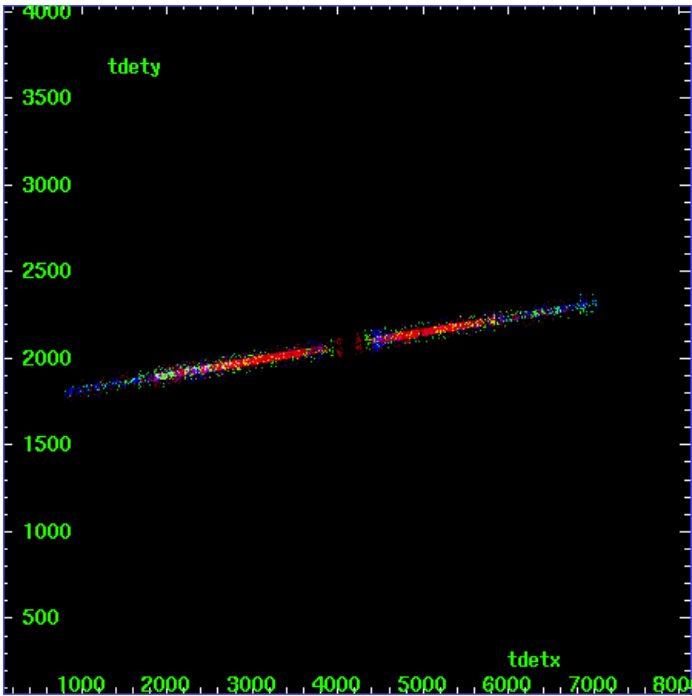
MEG Zero Order



MEG Order Sort ALL

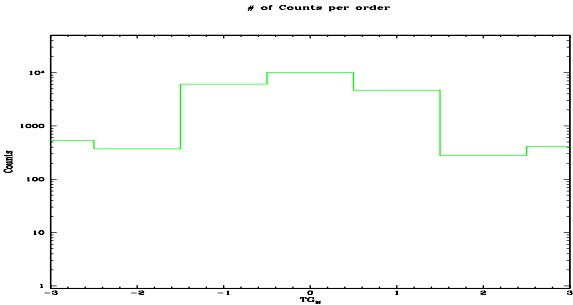


Spot Image MEG

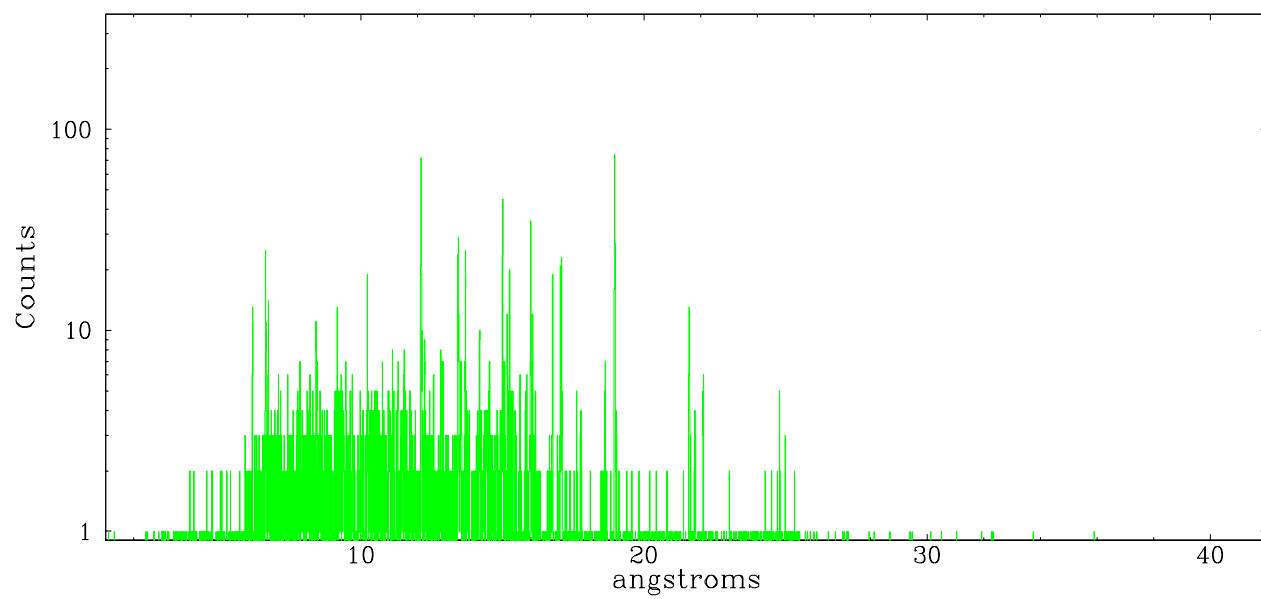


Full Detector MEG

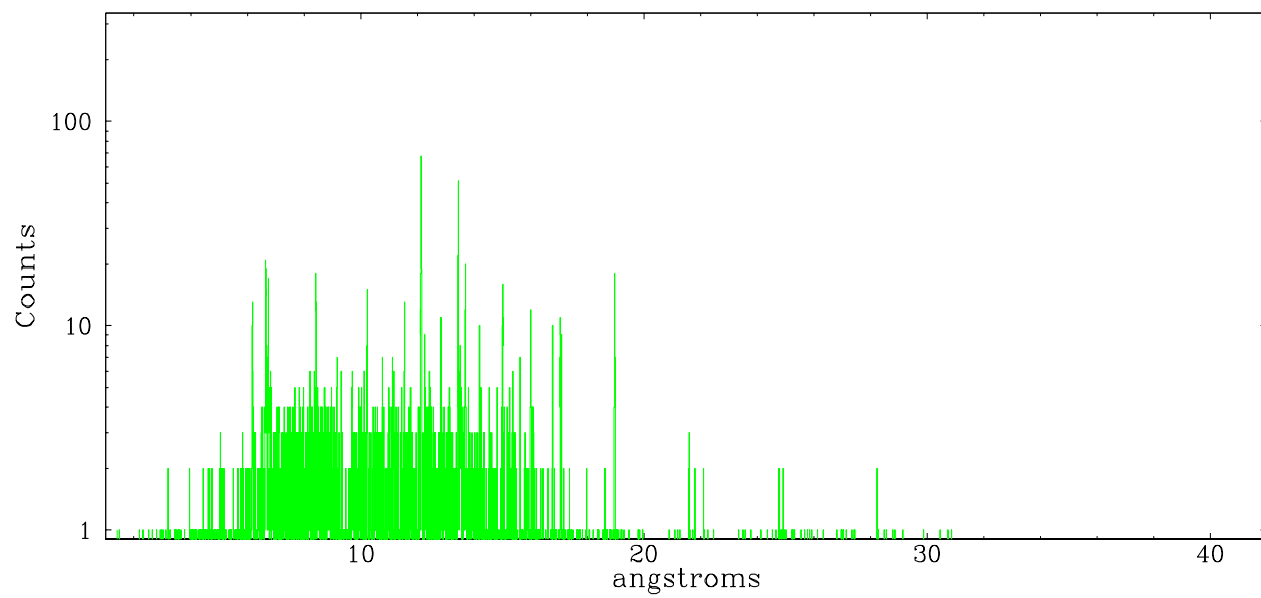
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	534	372	6113	10039	4684	280	413



meg order -1



meg order +1



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.09.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.9

A.2 Comments

Time constraint met.

Coordinated with HST and FUSE.