

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 6132 - L2 Version 001  
Chandra X-Ray Center

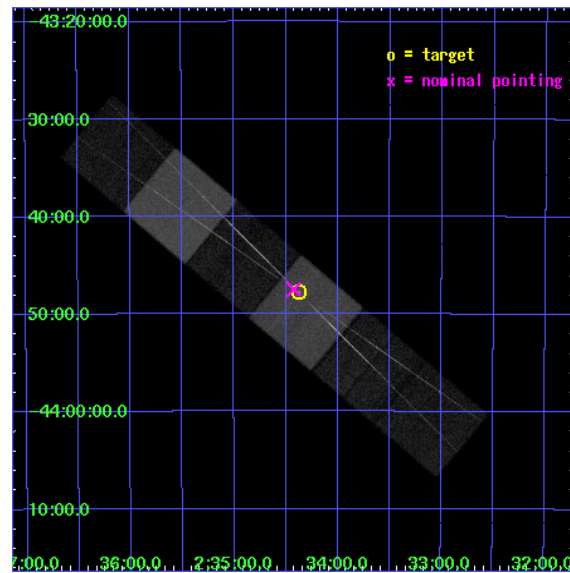
L2 Processing Date : Apr 17 2006

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# 1 Front

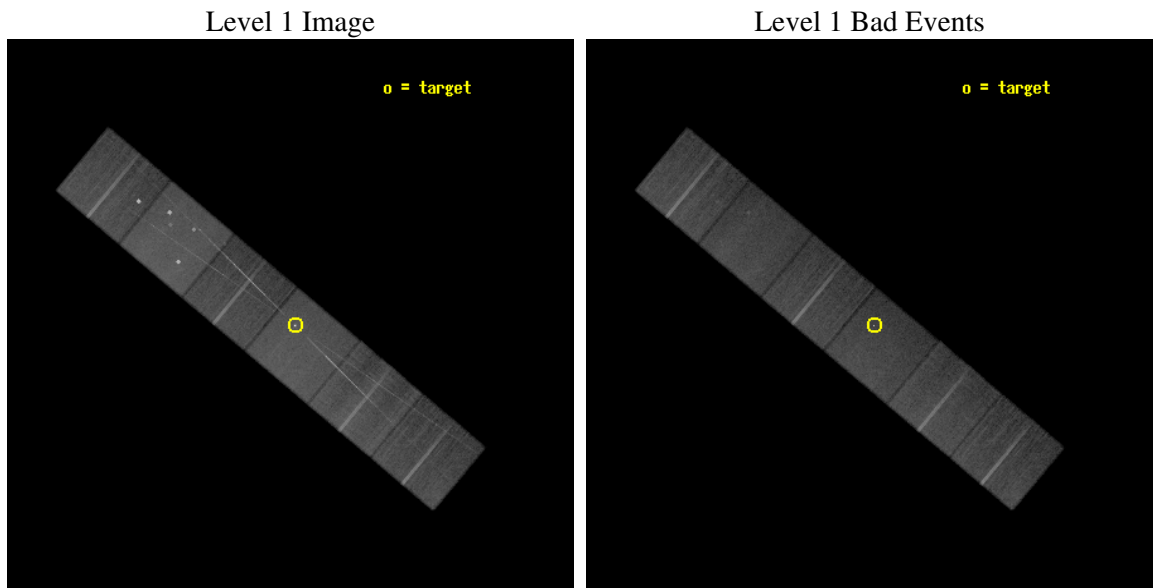
seq_num	200282
obs_id	6132
title	From Photosphere to Corona: Magnetic Fields and Coronal Emission from the Active Binary CC Eridani
observer	Dr. Rachel Osten
object	CC Eri
dtcycle	0
cycle	P
ra_targ	38.594167
dec_targ	-43.796361
ra_nom	38.605731838239
dec_nom	-43.791560923975
roll_nom	39.914629234889
revision	3
ontime	30953.599884689
livetime	30561.646764929
ontime4	30953.599884689
ontime5	30953.599884689
ontime6	30953.599884689
ontime7	30953.599884689
ontime8	30953.599884689
ontime9	30953.599884689
l2events	413935



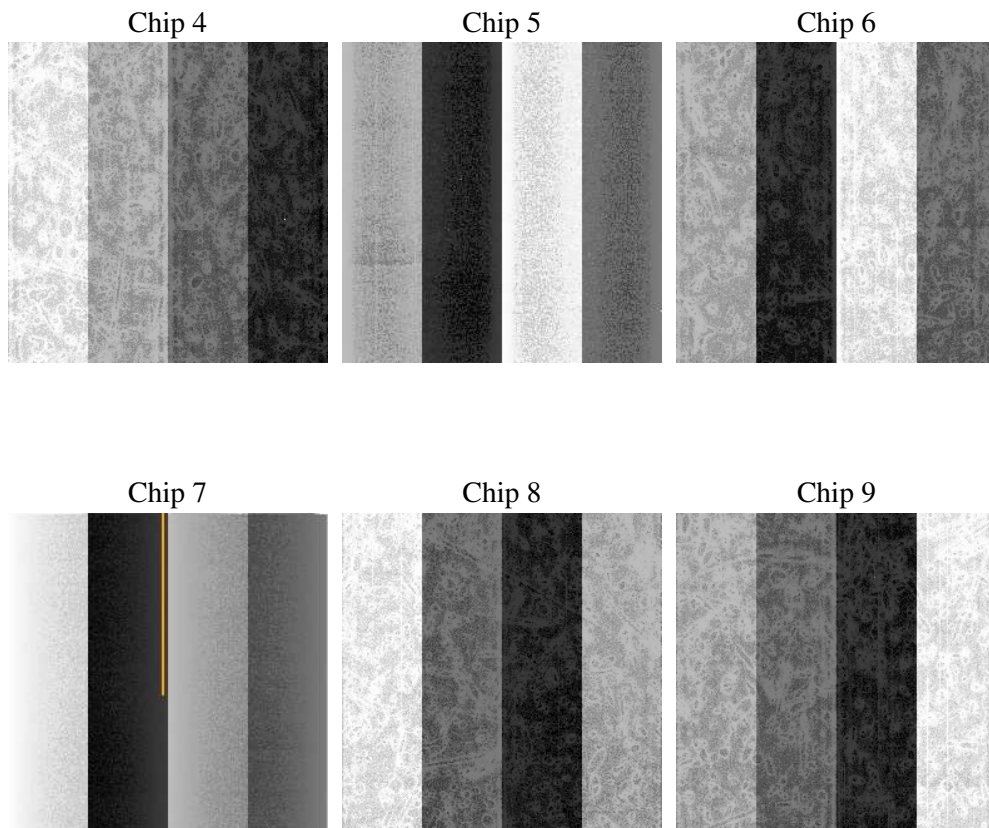
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-04-17T15:47:12
revision	3

sched_exp_time	31000.000000
ontime	30958.124863446
ontime4	30958.124843568
ontime5	30958.124863446
ontime6	30958.124863446
ontime7	30958.124863446
ontime8	30958.124843568
ontime9	30958.124863446
l1events	1773189

### 2.1.4 Events

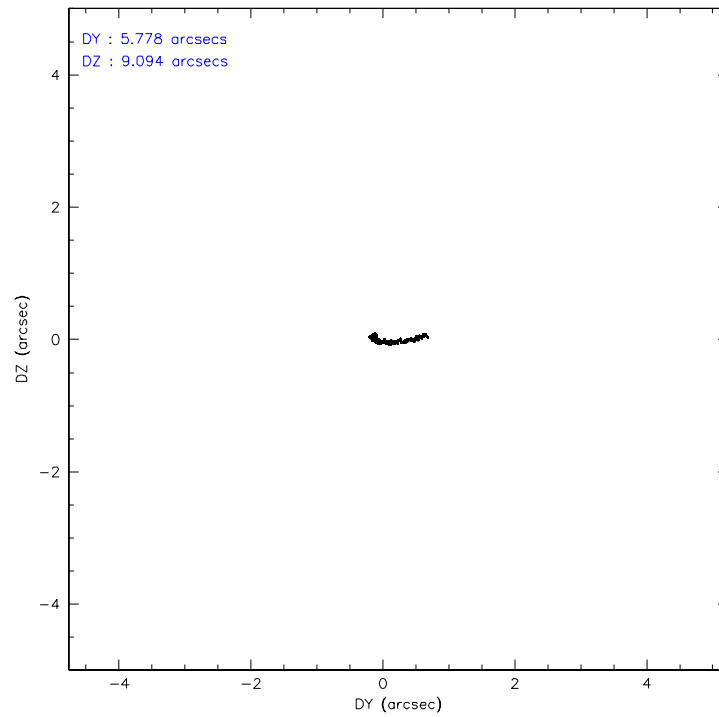
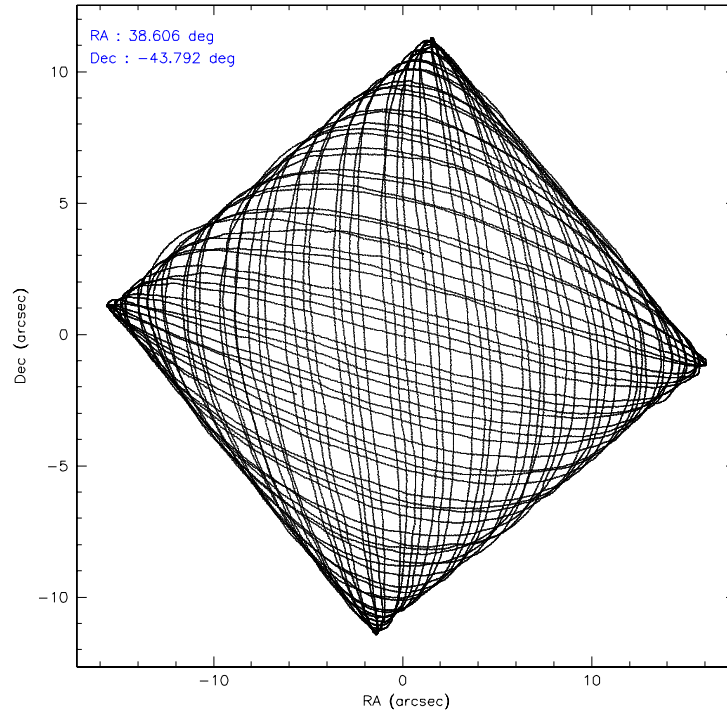
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	268591	366020	256583	334753	309016	238226
rejected events	229821	195487	212010	198828	233882	207549
rejected %	85%	53%	82%	59%	75%	87%

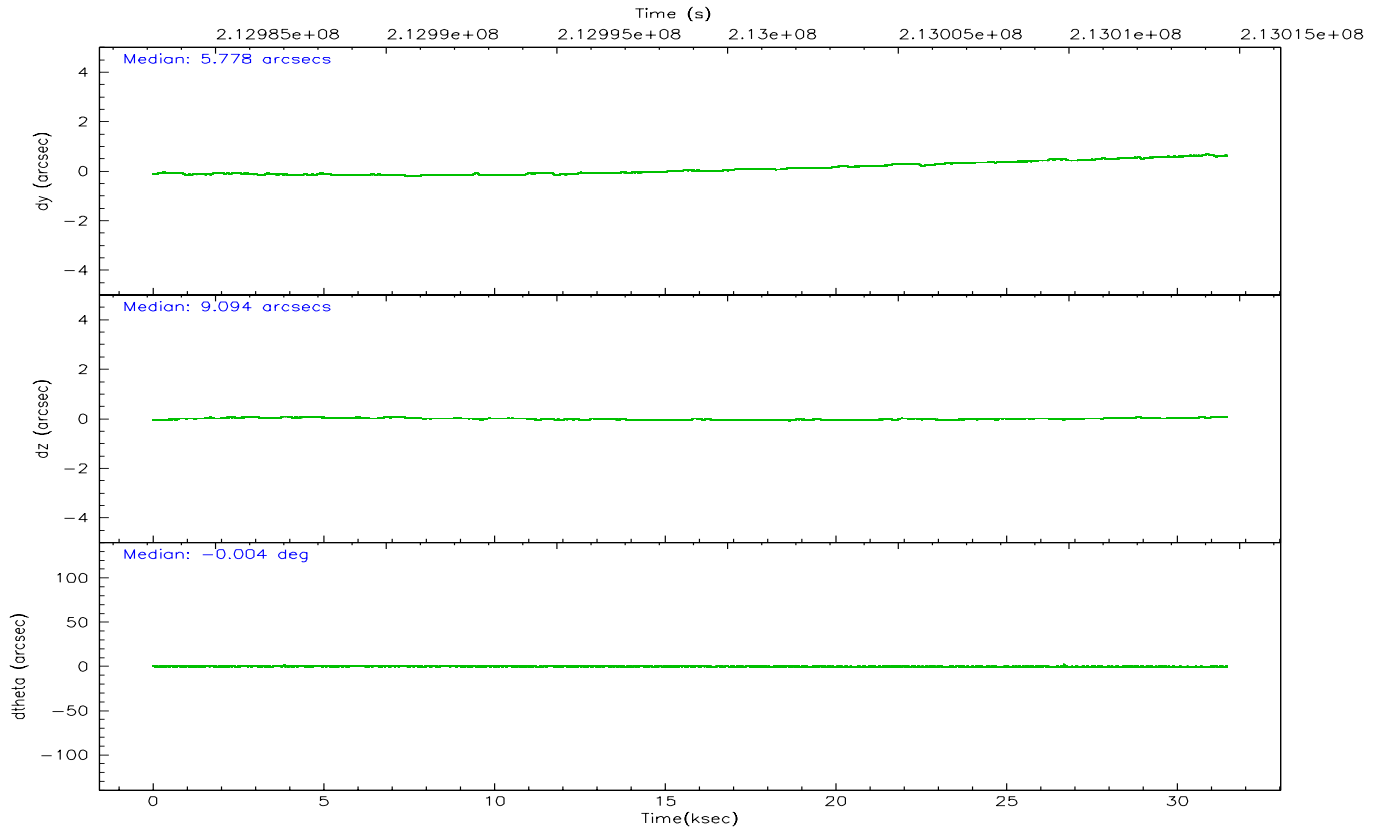
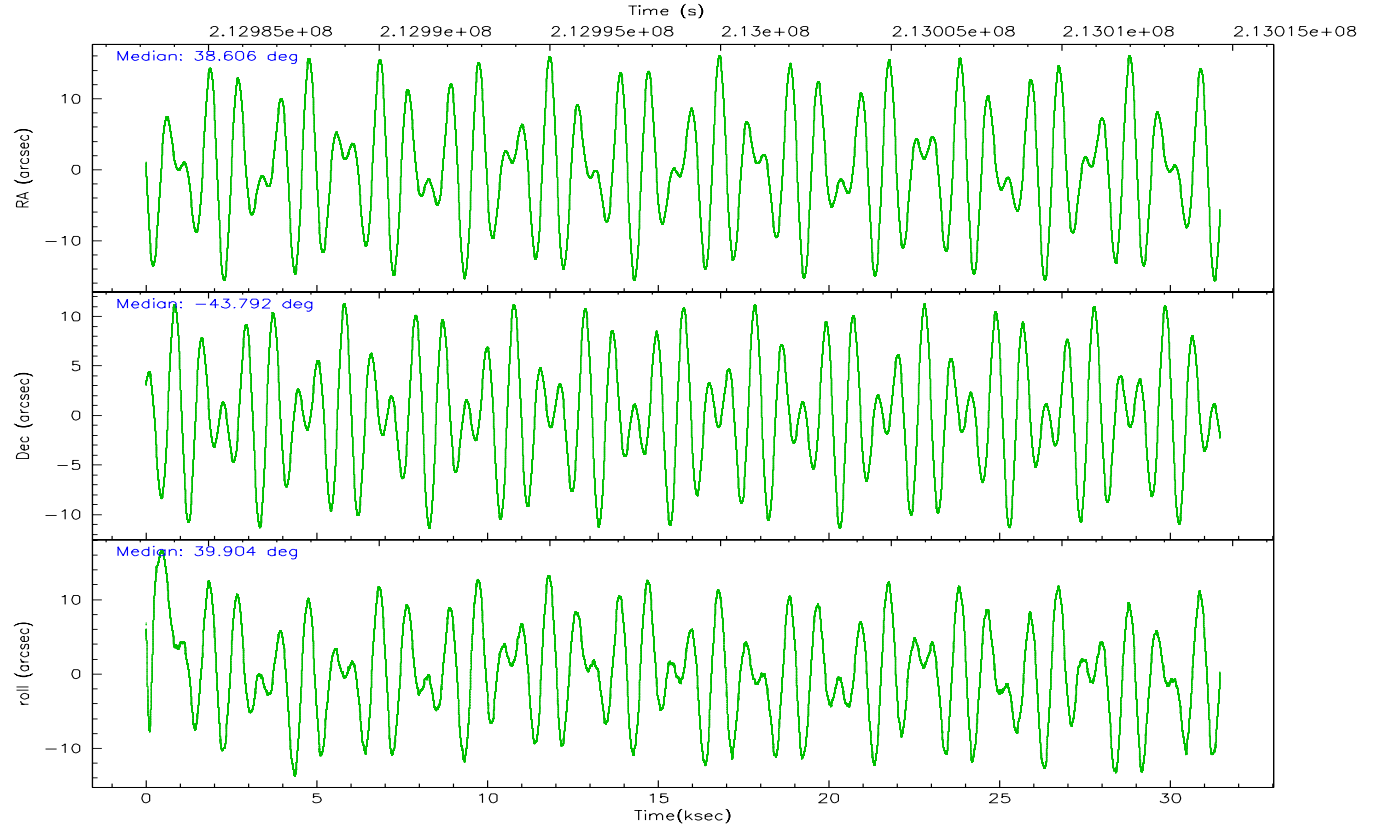
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	22108	21830	24734	9924	30302	13646
	8%	5%	9%	2%	9%	5%
grade 1 events	312	655	216	351	250	126
	0%	0%	0%	0%	0%	0%
grade 2 events	6077	52513	7459	34058	14834	5660
	2%	14%	2%	10%	4%	2%
grade 3 events	2920	3747	3298	7556	6986	3033
	1%	1%	1%	2%	2%	1%
grade 4 events	2959	3565	3187	7474	6524	2830
	1%	0%	1%	2%	2%	1%
grade 5 events	10348	16534	11017	21649	14173	11489
	3%	4%	4%	6%	4%	4%
grade 6 events	4710	88900	5902	76928	16497	5512
	1%	24%	2%	22%	5%	2%
grade 7 events	219157	178276	200770	176813	219450	195930
	81%	48%	78%	52%	71%	82%

## 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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	38.593310	38.60573183823948	Alternating exposures requested	N	N
Pointing Dec	-43.817257	-43.79156092397529	Primary exposure time	0.000000	3.2
Pointing Roll	39.749404	39.91462923488866			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-187.132523	-187.1228876879999			
SIM translation stage offset (mm)	-3	-3.009634895007935			
Observation start time	212983628.184000	212982472.95557			
Observation start date	2004-10-01T02:06:04	2004-10-01T01:47:52			
Observation end time	213014628.184000	213015116.64453			
Observation end date	2004-10-01T10:42:44	2004-10-01T10:51:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect





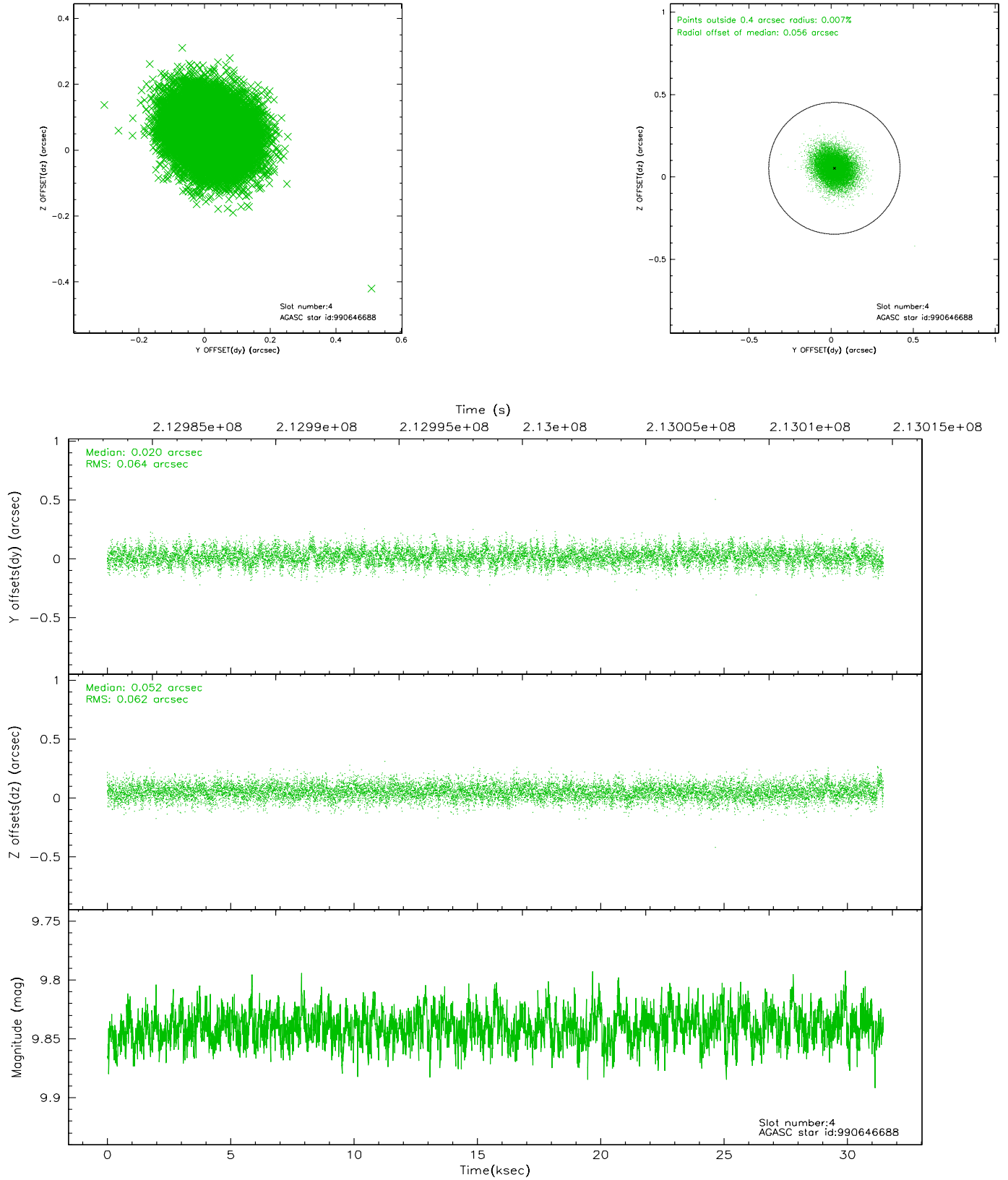
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	7673	-0.072	-0.037	0.007	0.012	0.000000	0.000000	-758.47	-1792.49
1	FID	ACIS-S-4	7.20	7672	0.086	0.045	0.006	0.009	0.000000	0.000000	2154.94	115.99
2	FID	ACIS-S-5	7.23	7674	-0.045	0.001	0.007	0.012	0.000000	0.000000	-1811.20	109.70
3	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
4	GUIDE	990646688	9.84	15328	0.020	0.052	0.094	0.155	39.195111	-43.949146	892.66	-1366.89
5	GUIDE	990647840	9.66	15332	0.000	-0.024	0.104	0.177	39.476651	-43.890480	1586.23	-1677.61
6	GUIDE	990648904	9.32	15330	0.034	0.078	0.096	0.155	39.426522	-43.673133	1994.46	-997.12
7	GUIDE	990646896	9.06	15336	-0.049	-0.103	0.085	0.138	39.157415	-43.282359	2365.10	531.40

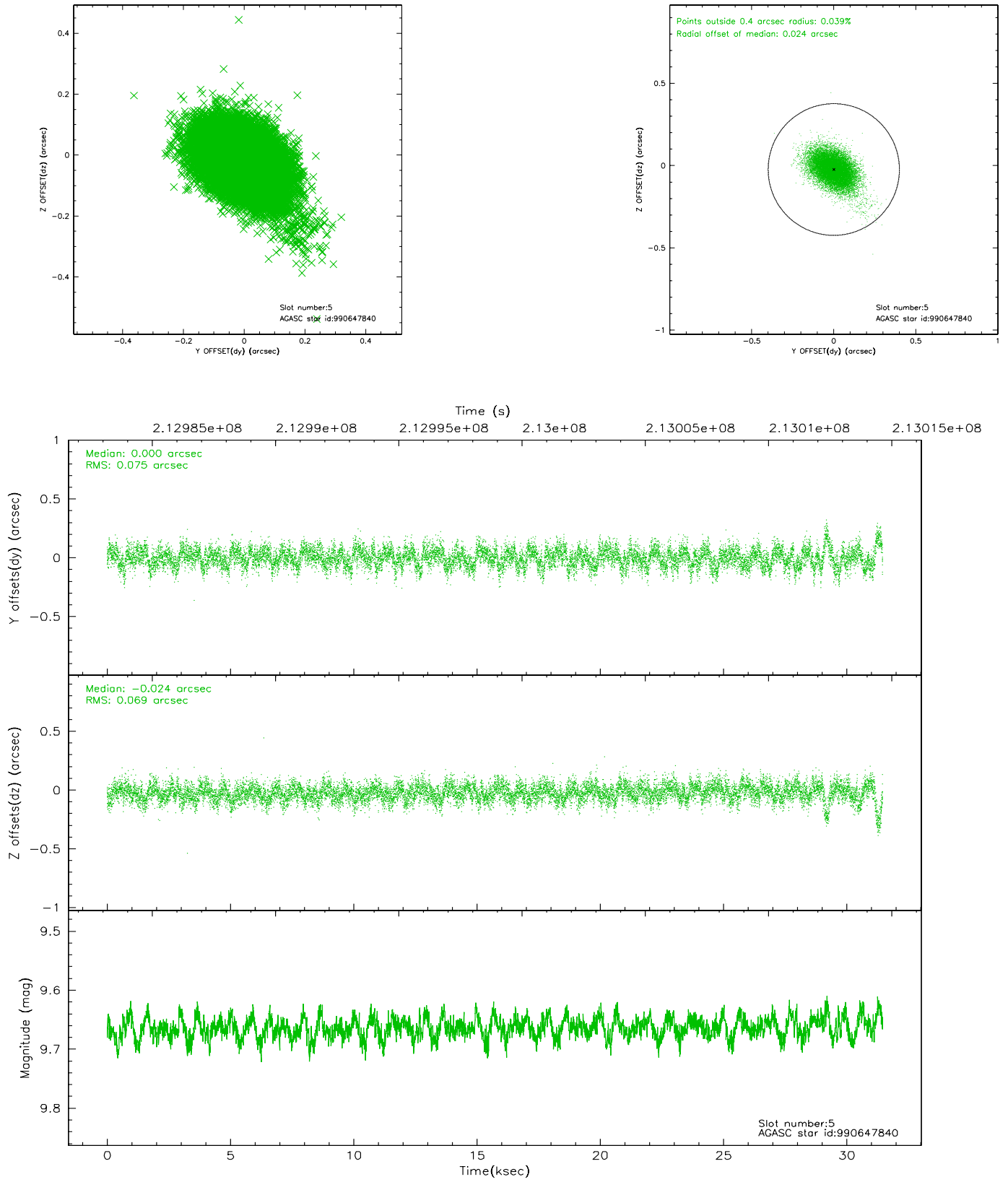


## 2.4 Star Slots

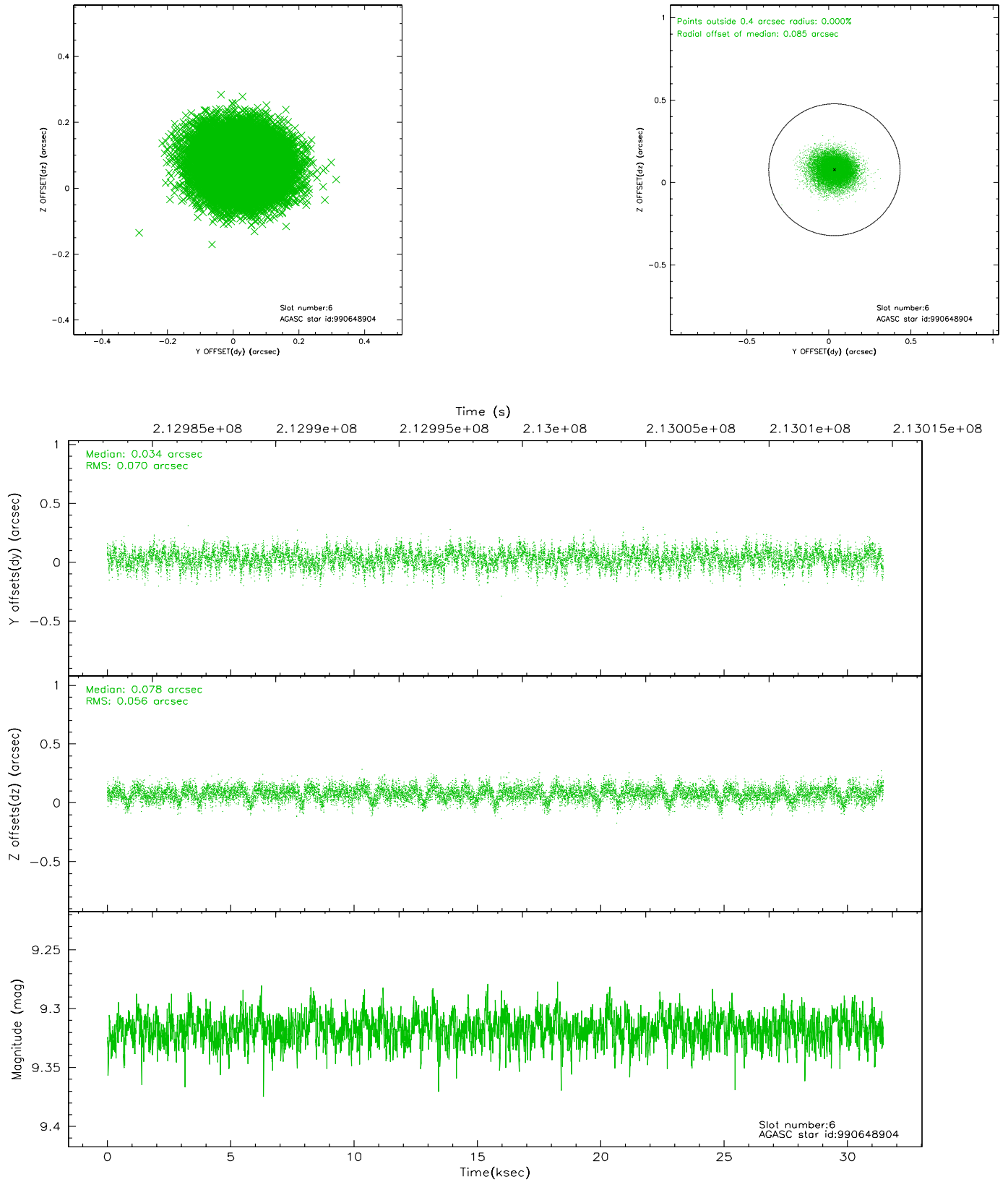
### 2.4.1 Slot 4



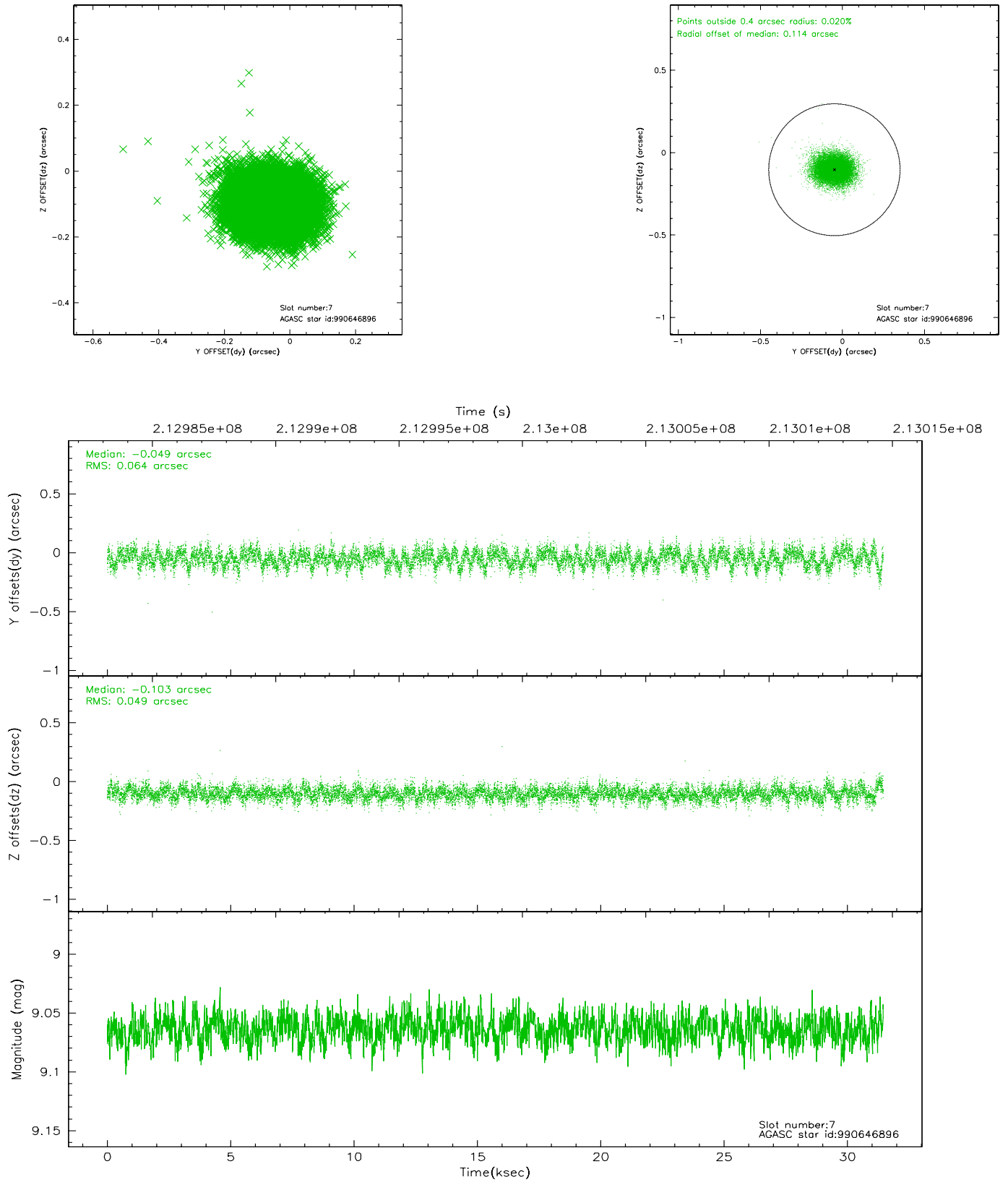
## 2.4.2 Slot 5



### 2.4.3 Slot 6

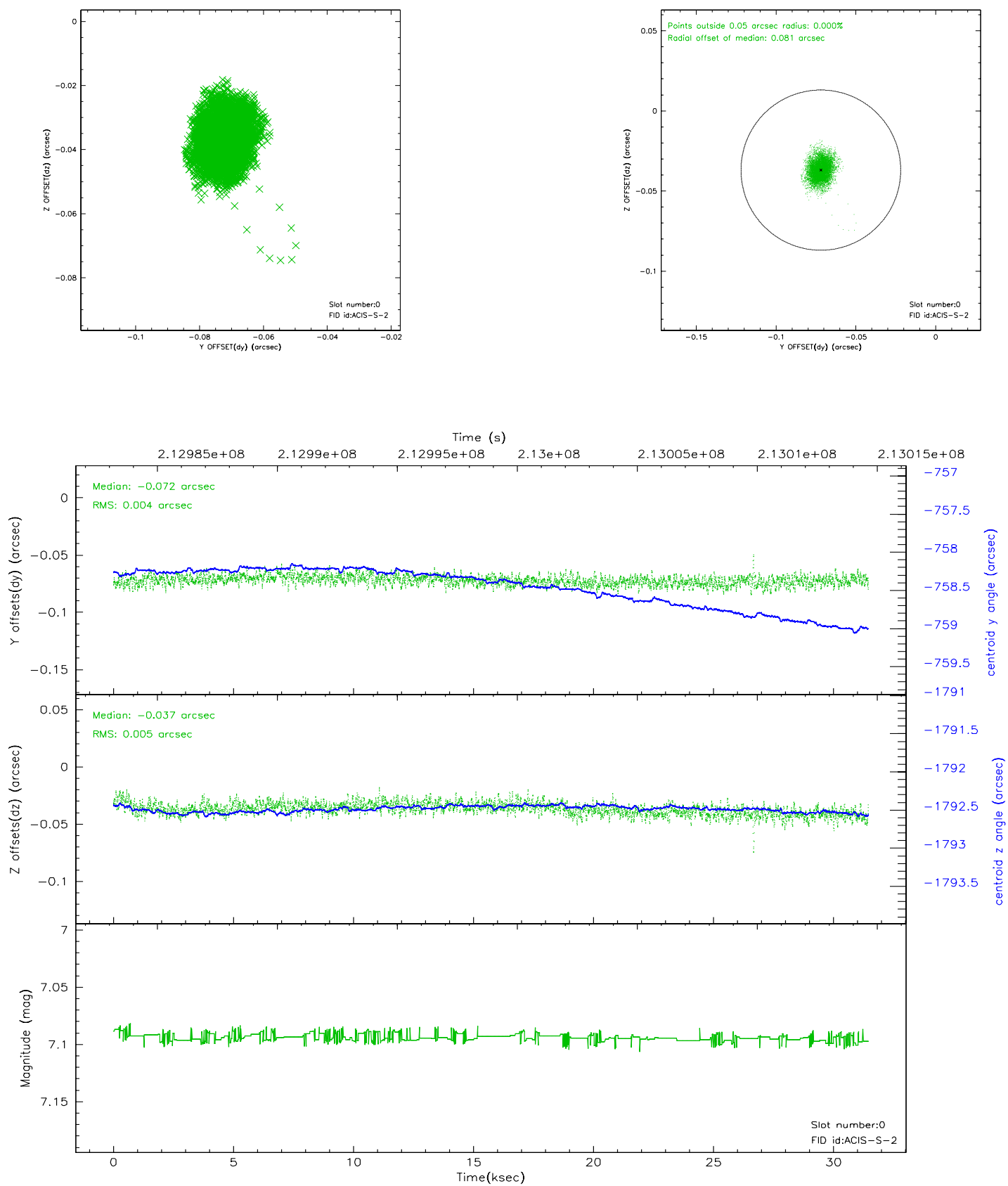


## 2.4.4 Slot 7

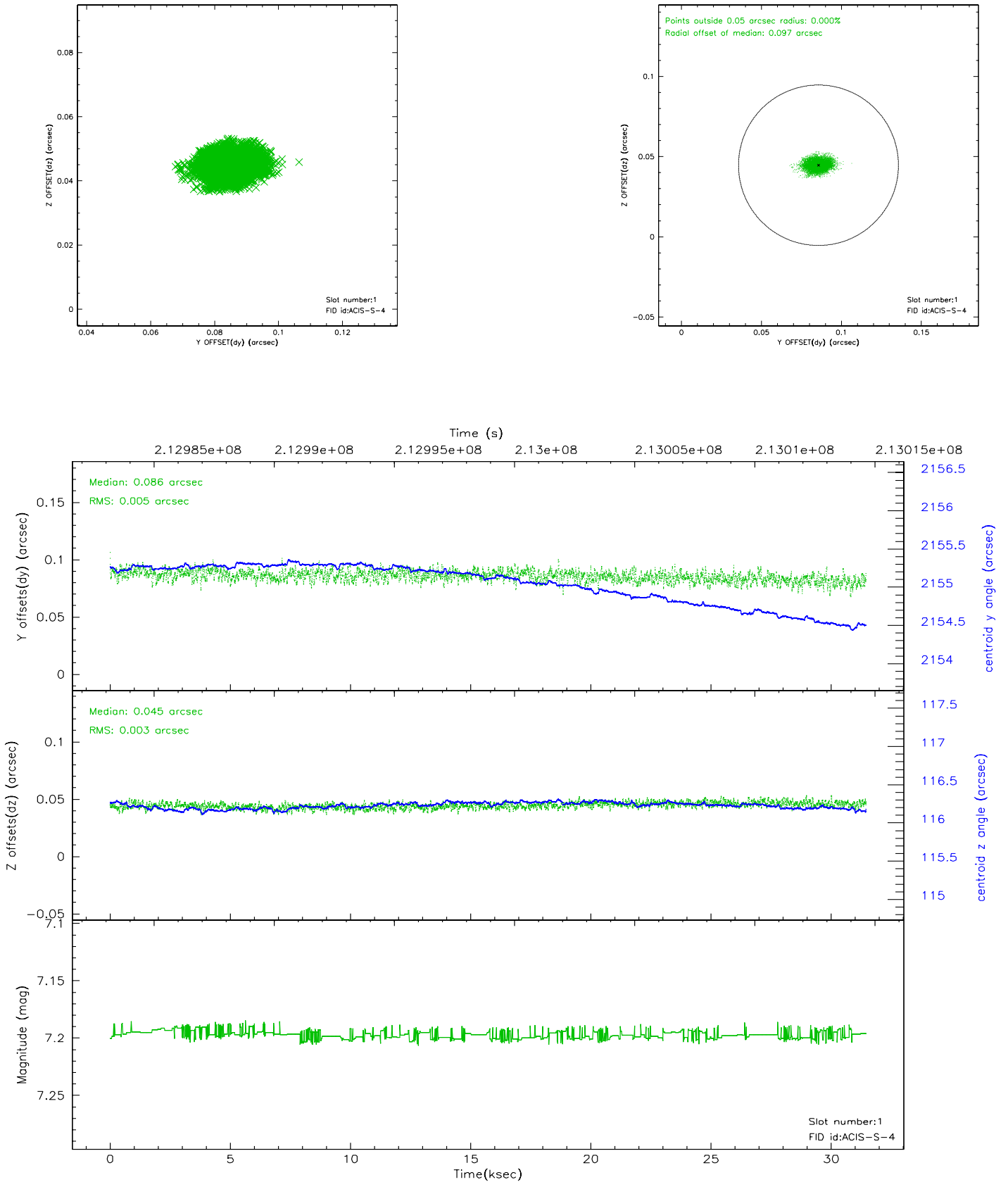


## 2.5 FID Slots

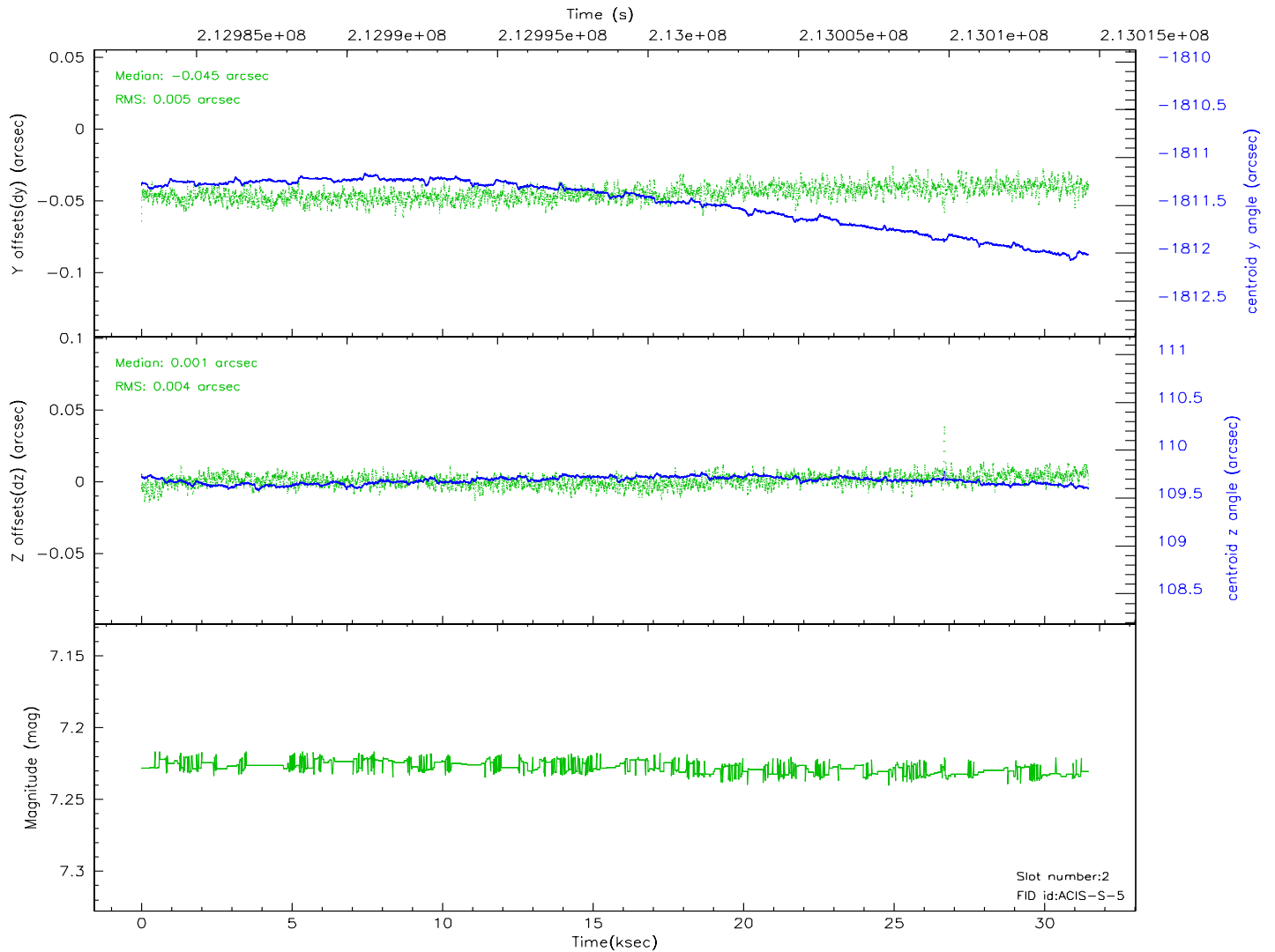
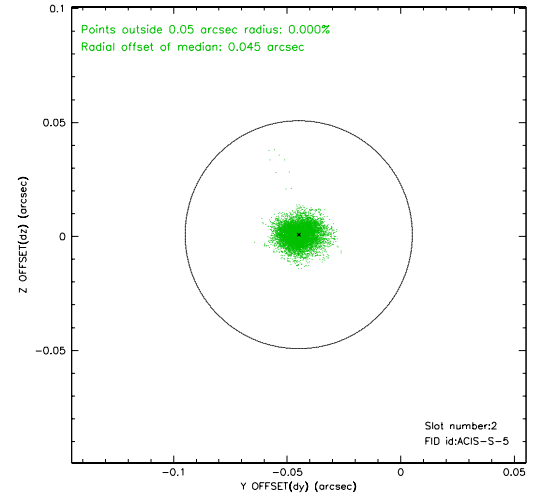
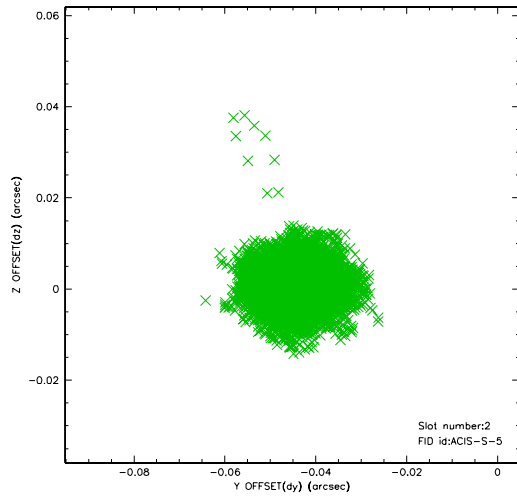
### 2.5.1 Slot 0



## 2.5.2 Slot 1

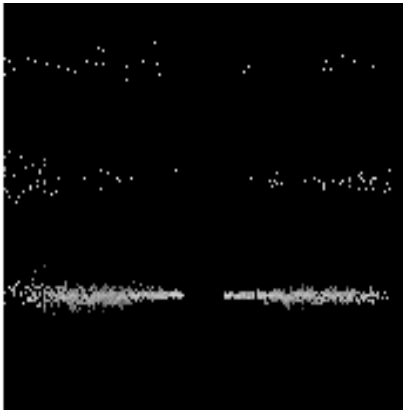


### 2.5.3 Slot 2

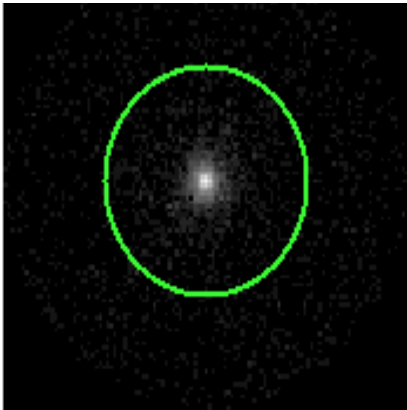


# 3 Gratings

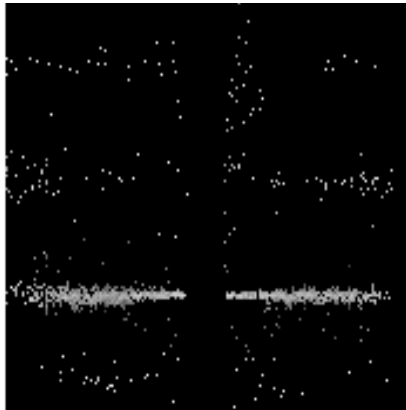
## 3.1 HEG Arm



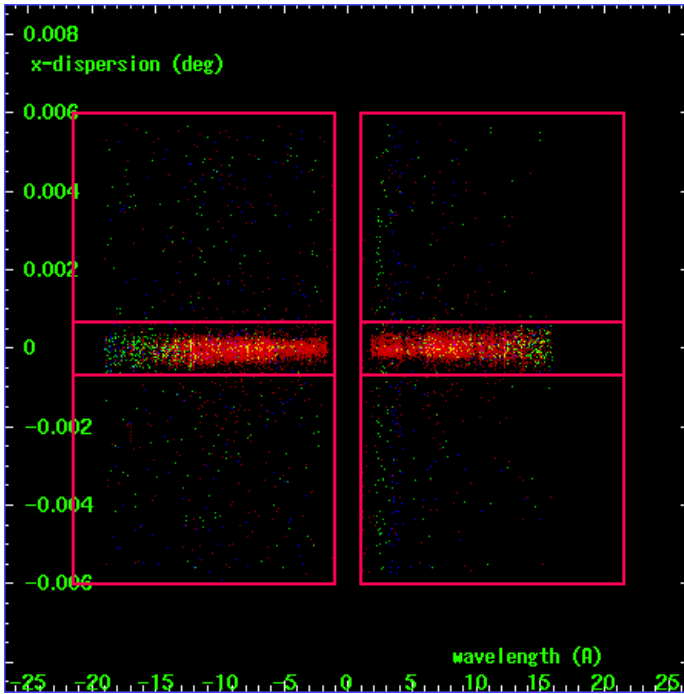
HEG Order Sort 123



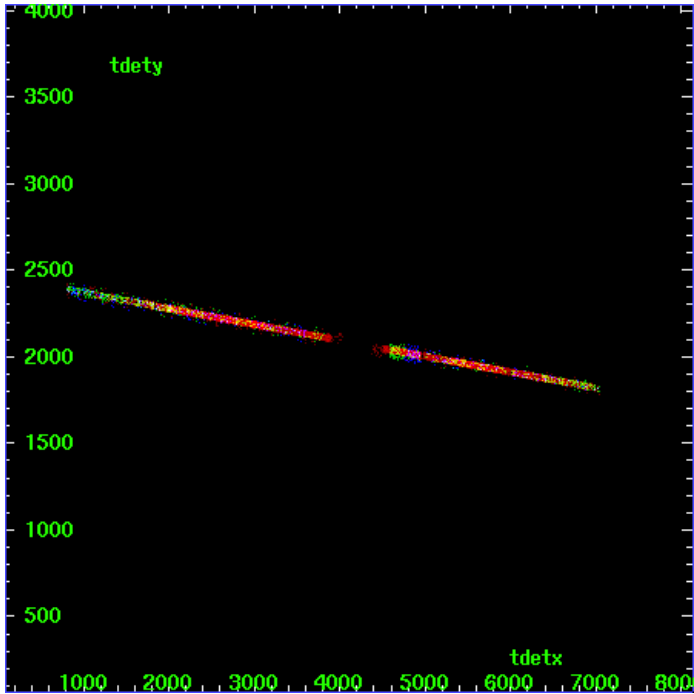
HEG Zero Order



HEG Order Sort ALL

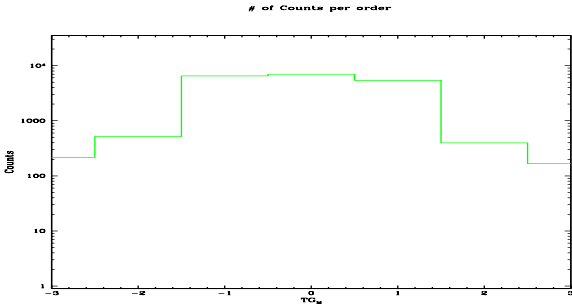


Spot Image HEG



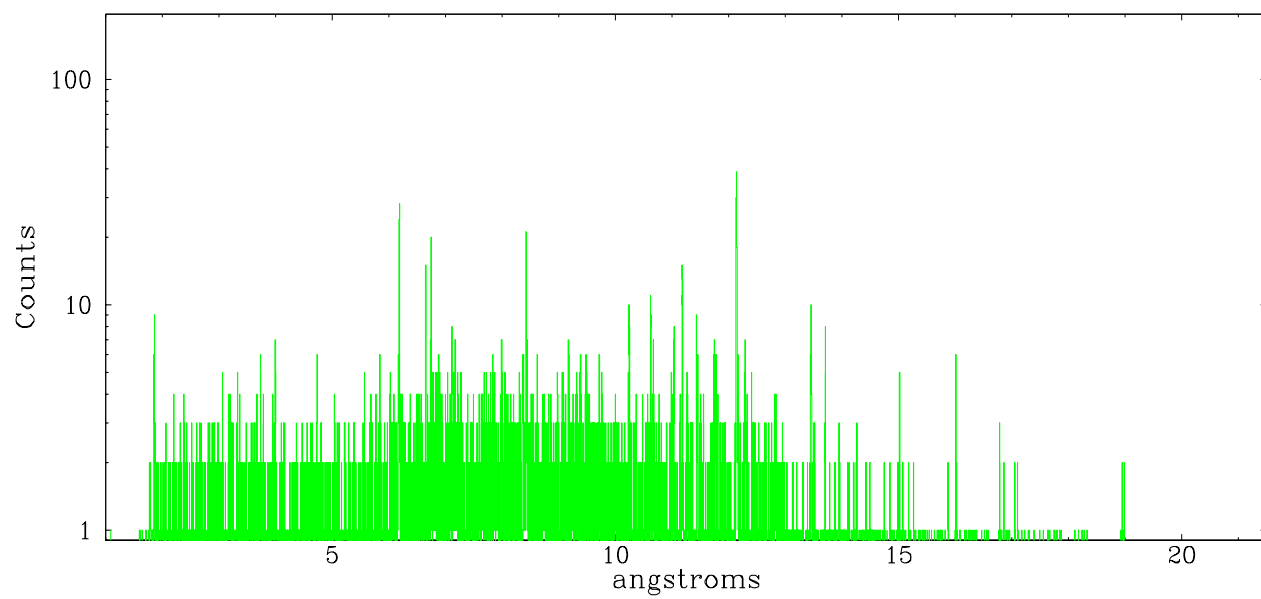
Full Detector HEG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	215	518	6506	6986	5406	397	167

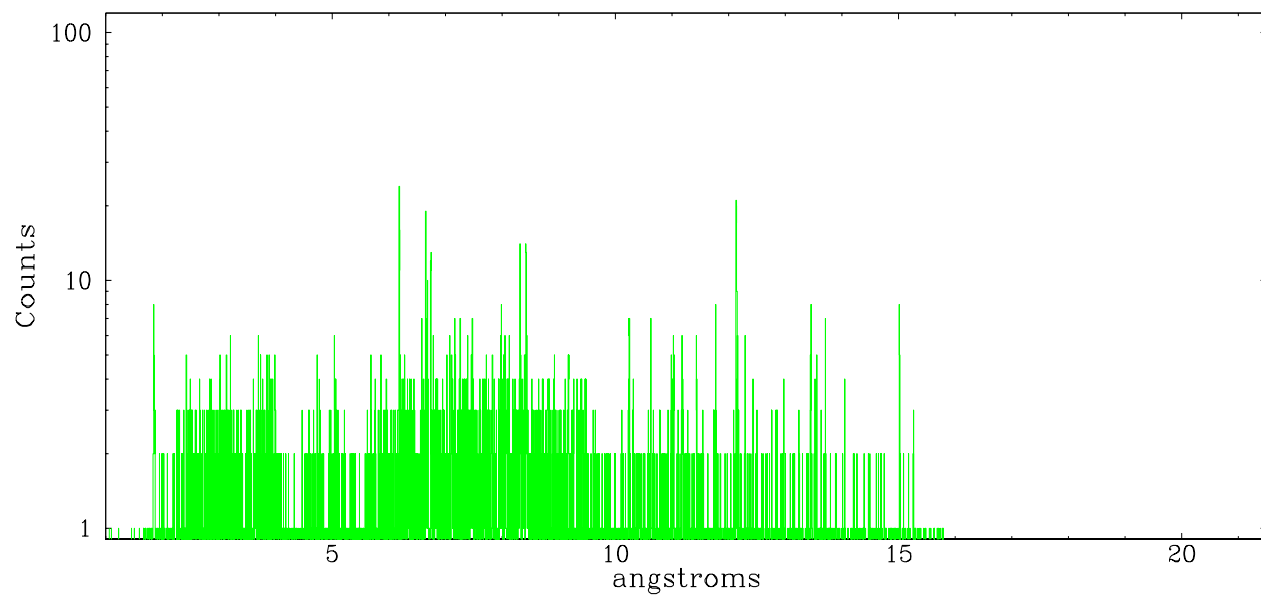




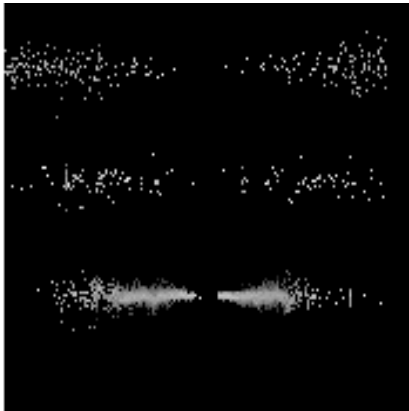
heg order -1



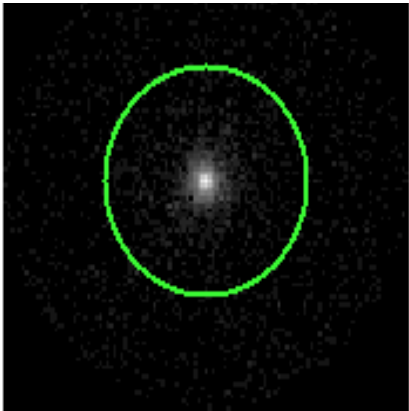
heg order +1



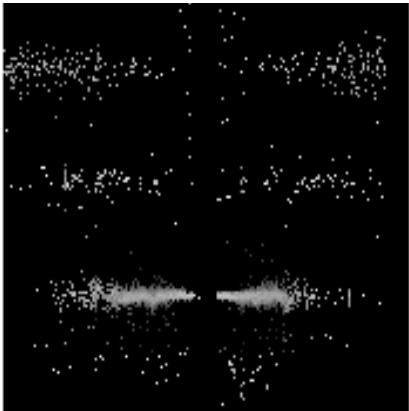
3.2 MEG Arm



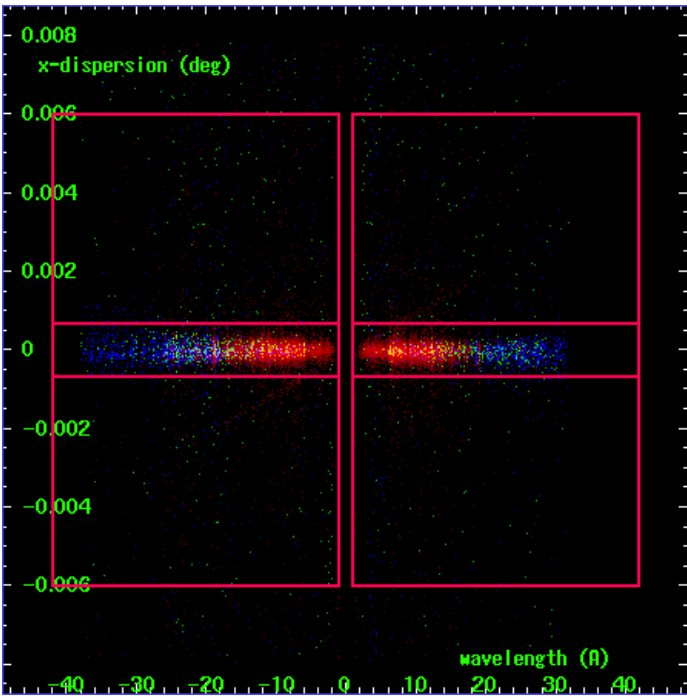
MEG Order Sort 123



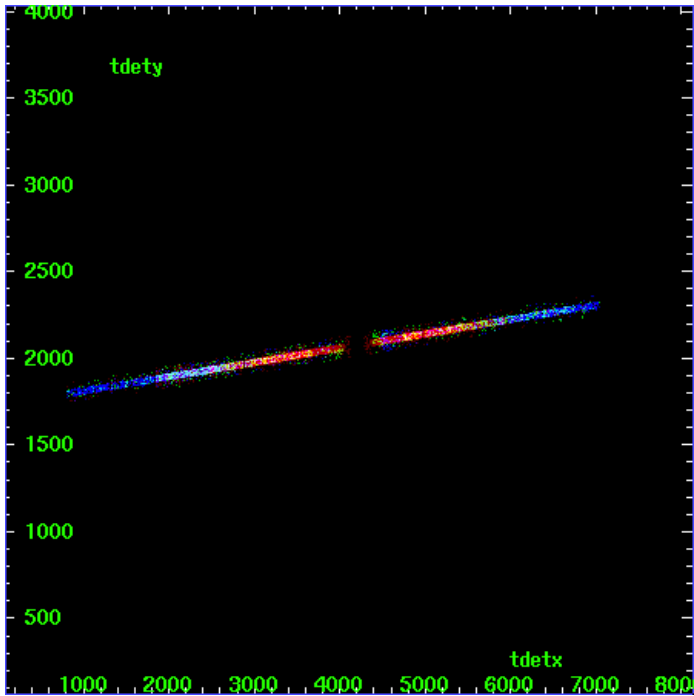
MEG Zero Order



MEG Order Sort ALL

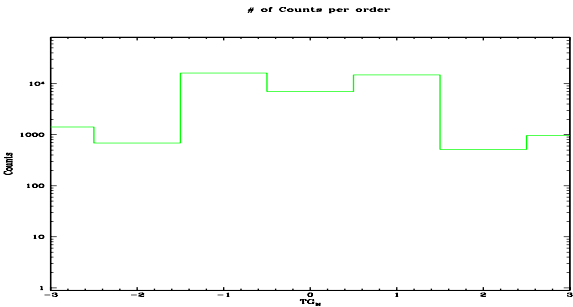


Spot Image MEG

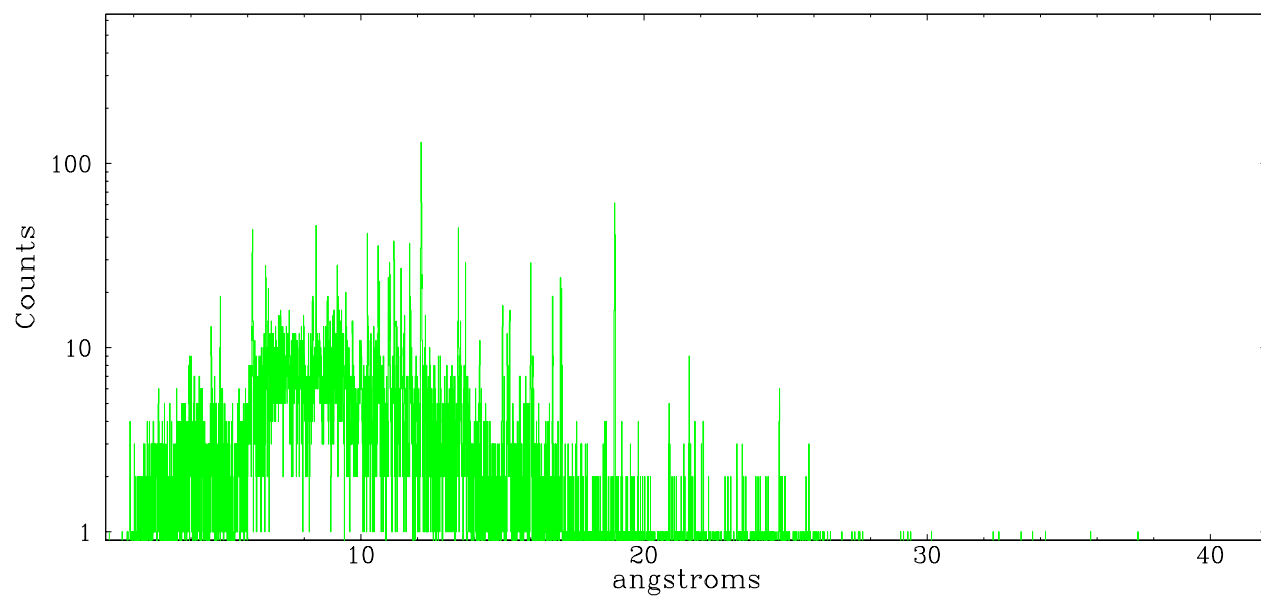


Full Detector MEG

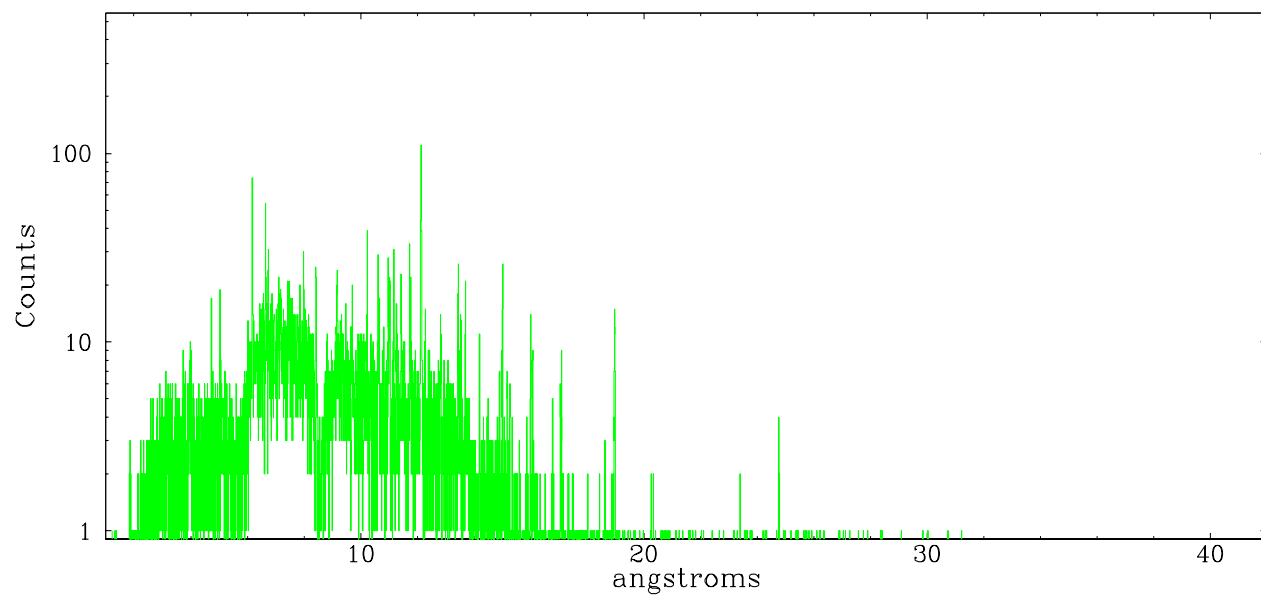
	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	1410	686	16147	6986	14823	516	963



meg order -1



meg order +1



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2010.10.04
V&V Edition	2
V&V Disposition and Status	OK
V&V Charge Time	30.953

## A.2 Comments

The guide star in slot 3 was manually excluded from the processing due to poor data quality.