

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 786 - L2 Version 001  
Chandra X-Ray Center

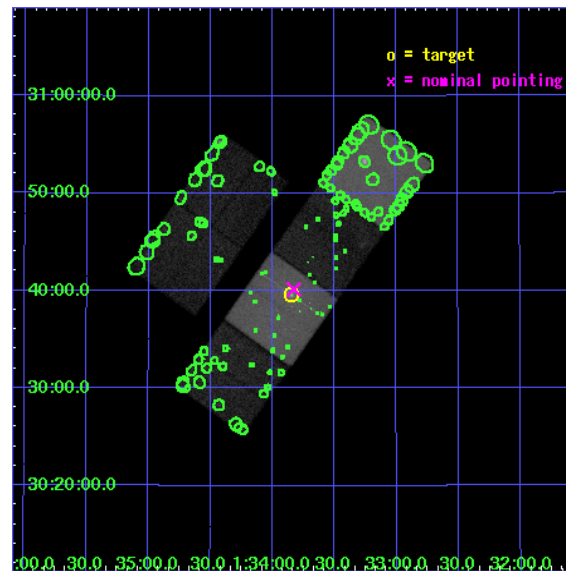
L2 Processing Date : Jun 6 2007

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# 1 Front

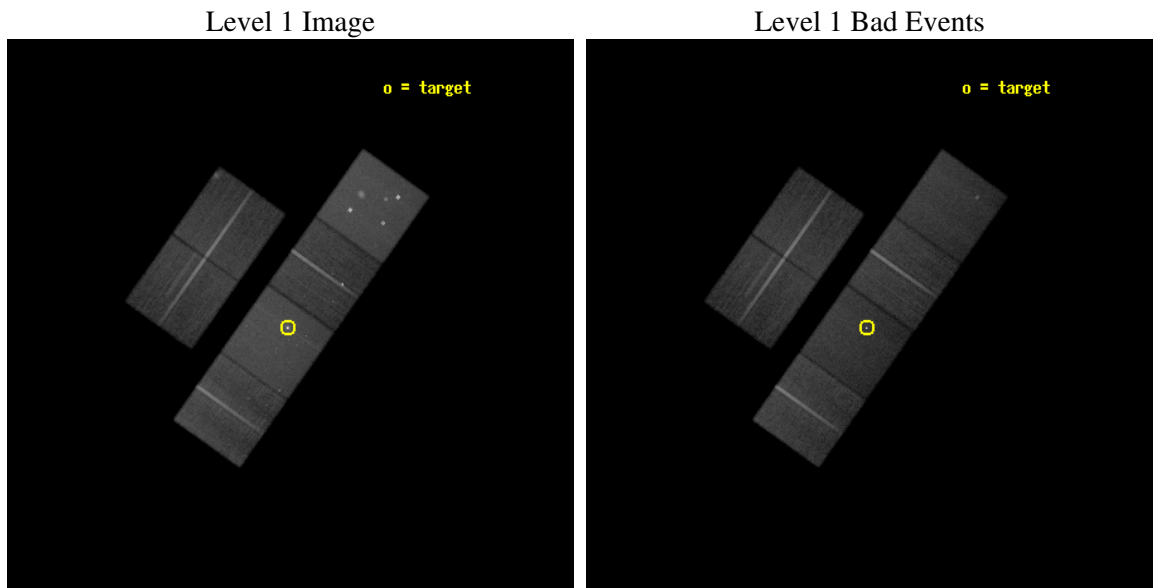
seq_num	600089
obs_id	786
title	THE X-RAY SOURCE POPULATION OF M33
observer	Dr. Jonathan McDowell
object	M33
dtcycle	0
cycle	P
ra_targ	23.461667
dec_targ	30.660167
ra_nom	23.456816341928
dec_nom	30.669164473355
roll_nom	125.31655732995
revision	2
ontime	46851.200043634
livetime	46257.941938275
ontime2	46851.200043634
ontime3	46847.959083393
ontime5	46851.200043634
ontime6	46847.959083378
ontime7	46851.200043634
ontime8	46851.200043634
l2events	511382



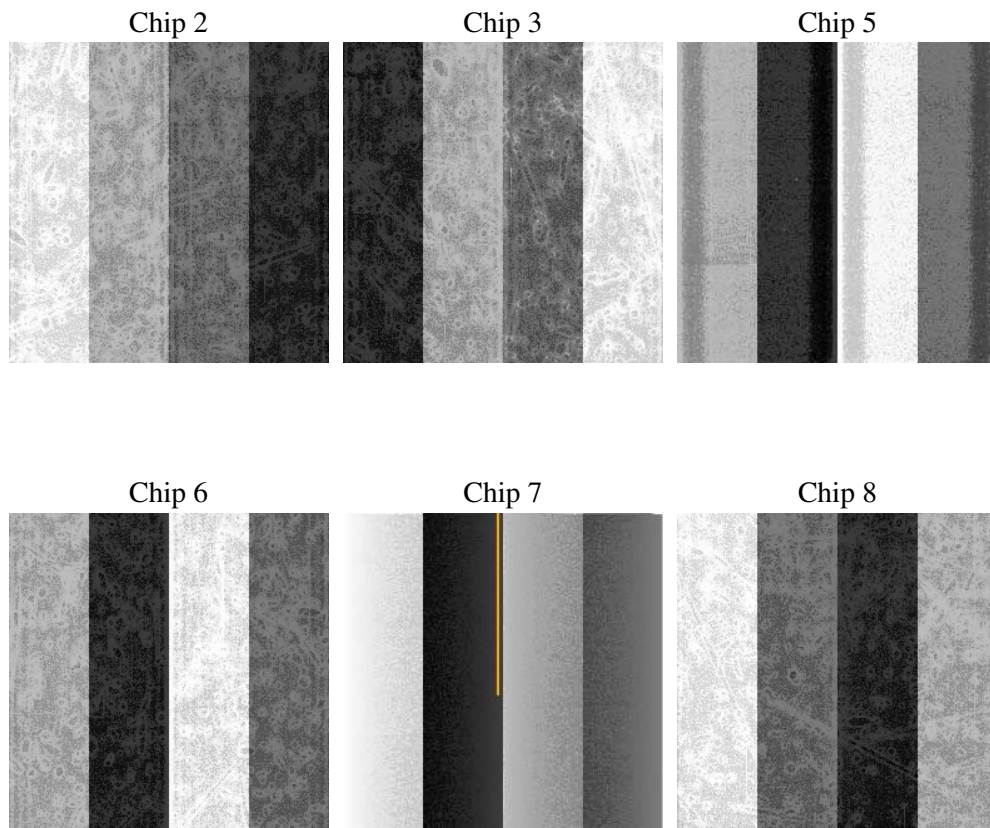
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.10
caldsver	3.4.0
date	2007-06-06T13:54:03
revision	2

sched_exp_time	46900.000000
ontime	46851.200043634
ontime2	46851.200043634
ontime3	46847.959083393
ontime5	46851.200043634
ontime6	46847.959083378
ontime7	46851.200043634
ontime8	46851.200043634
l1events	2041718

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	286761	278297	434461	289287	407244	345668
rejected events	254328	247179	205586	250839	210184	278447
rejected %	88%	88%	47%	86%	51%	80%

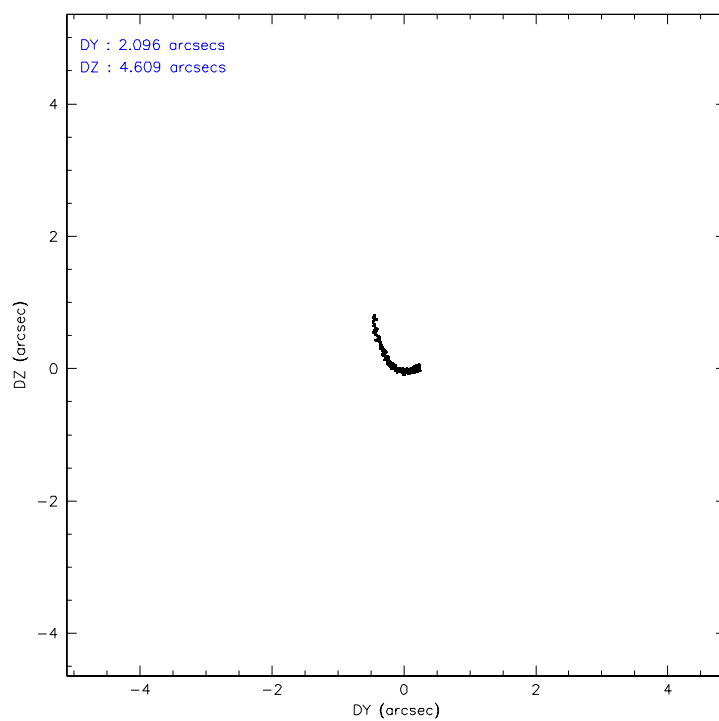
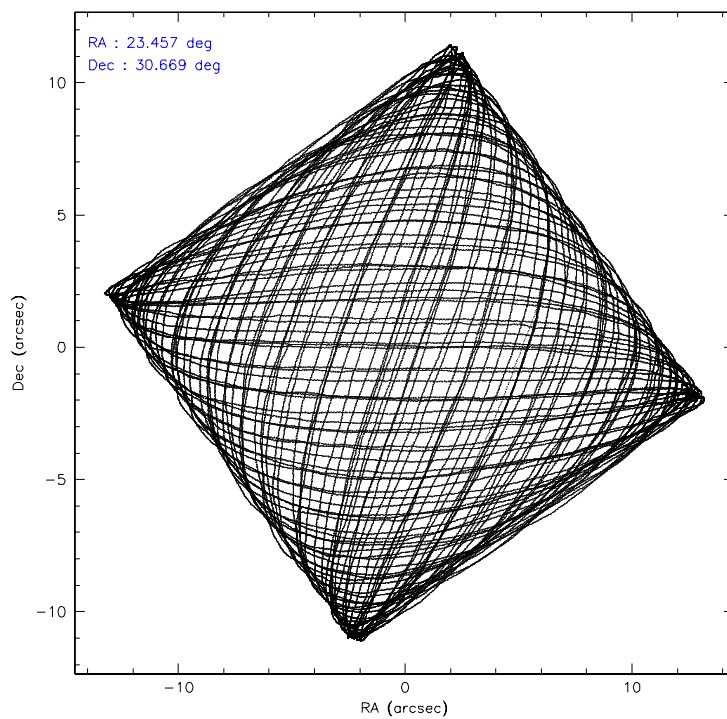
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	14673	13805	42579	18831	24956	22250
	5%	4%	9%	6%	6%	6%
grade 1 events	114	130	1094	229	609	181
	0%	0%	0%	0%	0%	0%
grade 2 events	6548	5841	65317	6798	39404	14296
	2%	2%	15%	2%	9%	4%
grade 3 events	2934	3090	10548	3398	18287	7076
	1%	1%	2%	1%	4%	2%
grade 4 events	2984	2992	10111	3241	18078	6652
	1%	1%	2%	1%	4%	1%
grade 5 events	9254	10102	29632	11366	34804	14387
	3%	3%	6%	3%	8%	4%
grade 6 events	5302	5395	100354	6187	96355	16950
	1%	1%	23%	2%	23%	4%
grade 7 events	244952	236942	174826	239237	174751	263876
	85%	85%	40%	82%	42%	76%

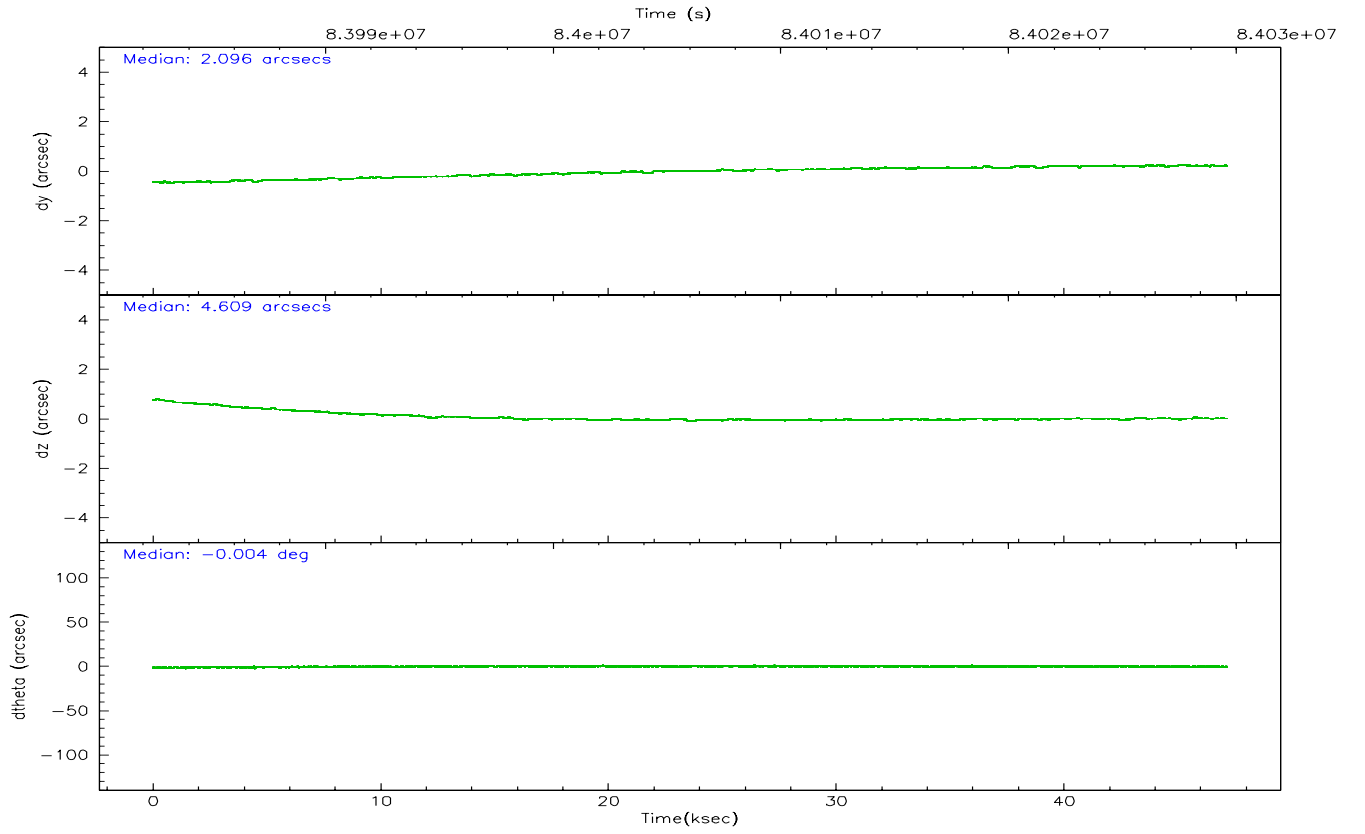
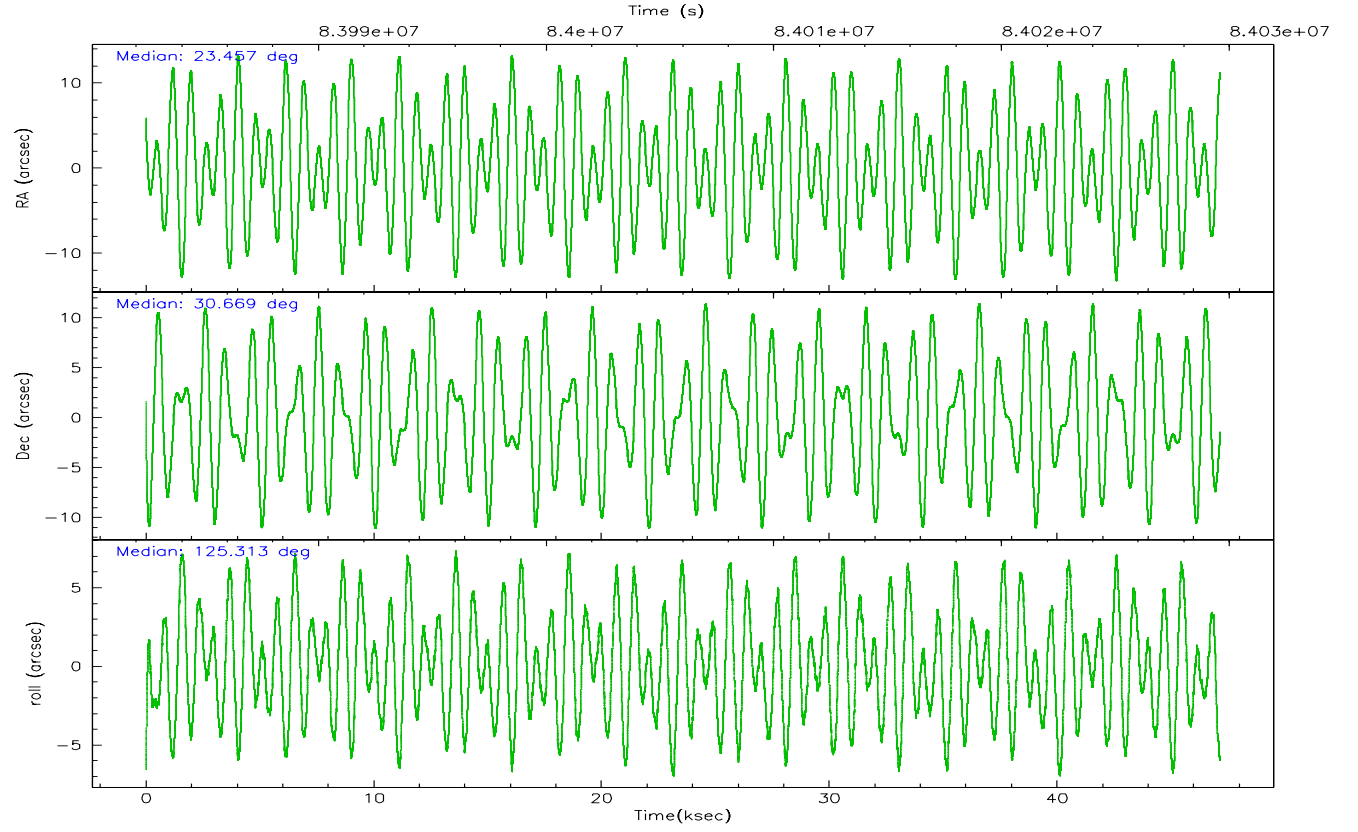


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	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	23.485819	23.45681634192811	Subarray requested	NONE	NONE
Pointing Dec	30.657876	30.66916447335514	Alternating exposures requested	N	N
Pointing Roll	125.145135	125.3165573299501	Primary exposure time	3.200000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	83982697.184000	83981689.69513801			
Observation start date	2000-08-30T00:30:33	2000-08-30T00:14:49			
Observation end time	84029597.184000	84029906.721949			
Observation end date	2000-08-30T13:32:13	2000-08-30T13:38:26			
Read mode	TIMED	TIMED			

## 2.3 Aspect



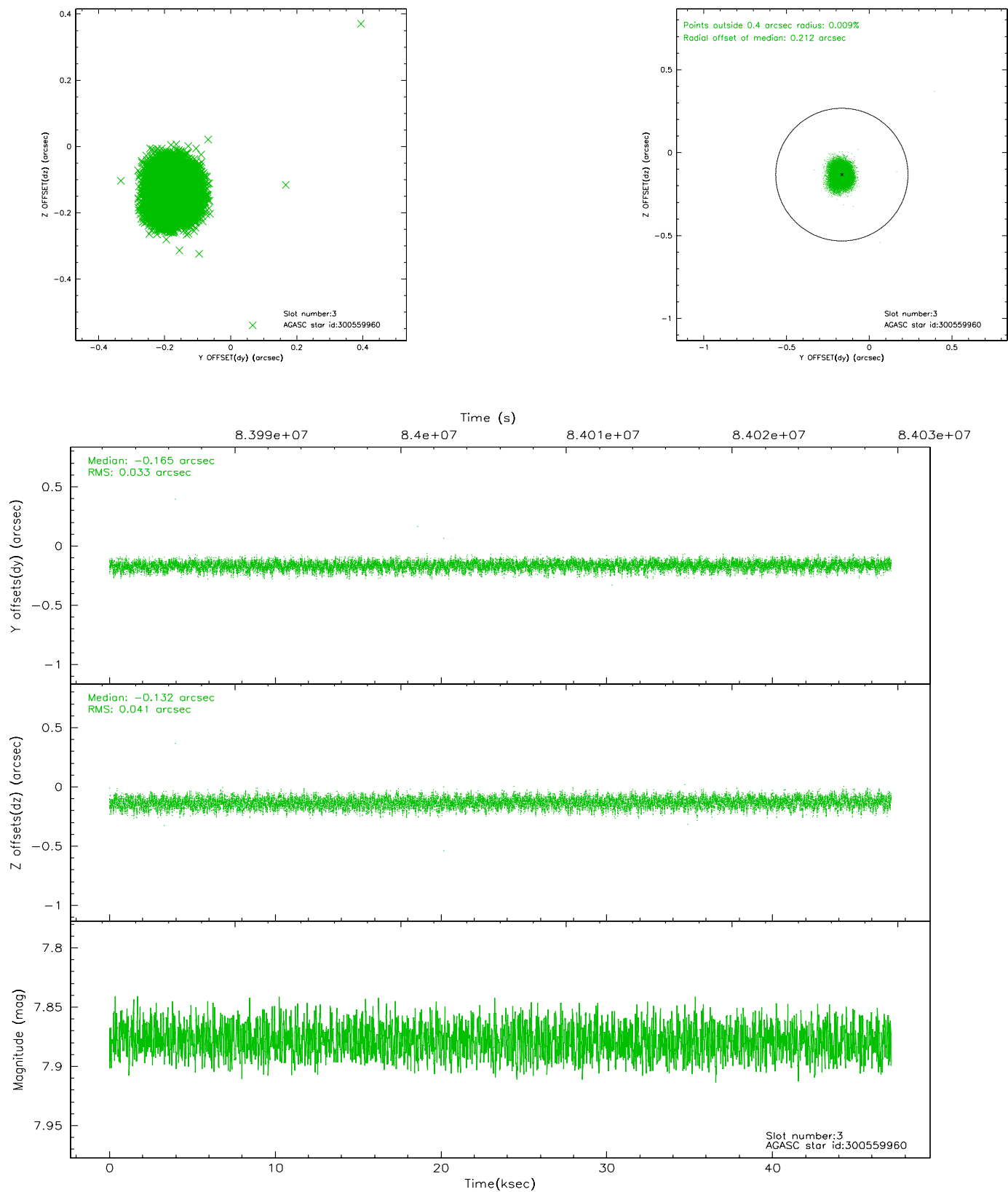


### Slot Statistics

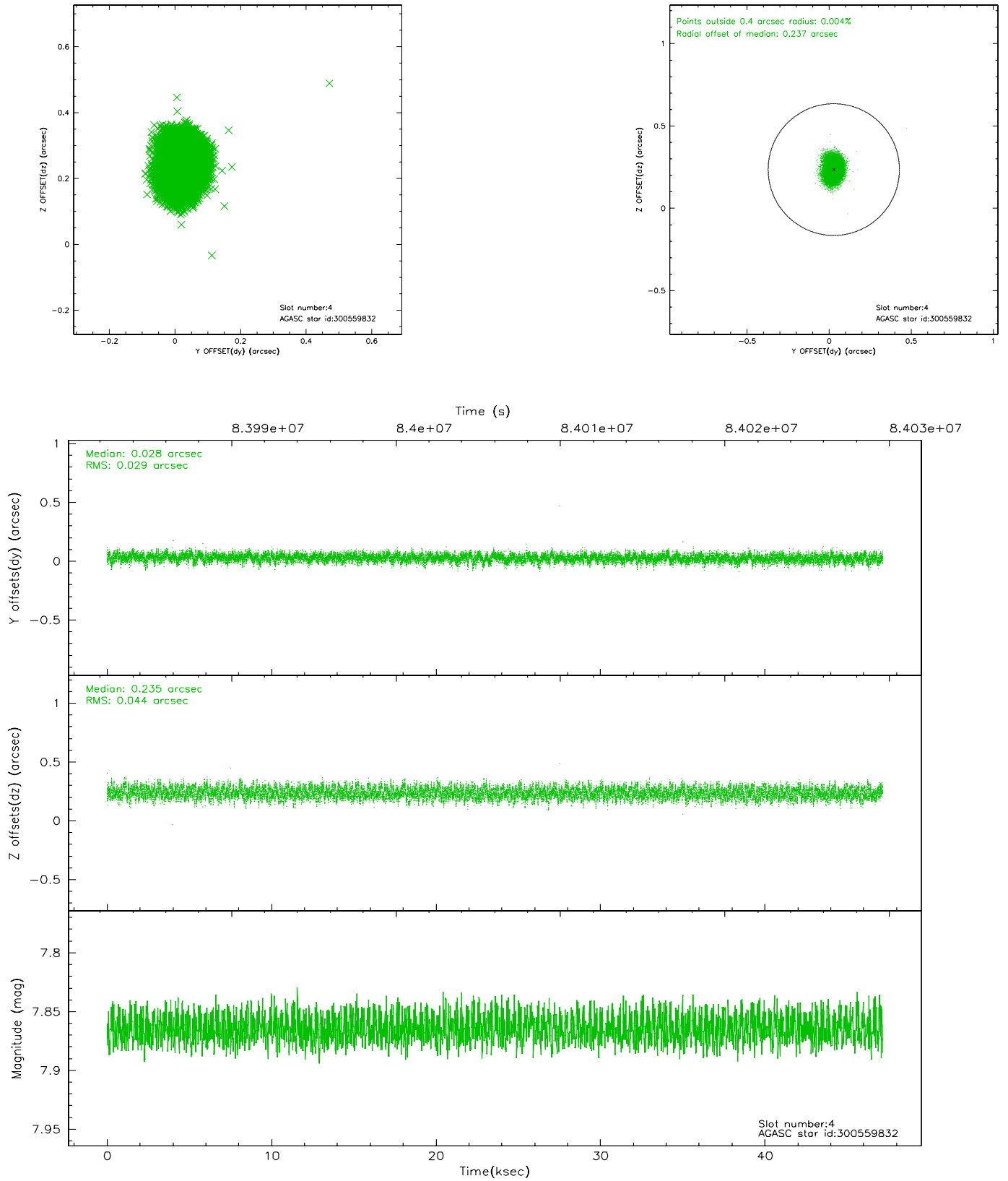
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	11501	-0.014	0.015	0.009	0.017	0.000000	0.000000	-754.68	-1725.73
1	FID	ACIS-S-4	7.21	11501	-0.056	0.003	0.007	0.013	0.000000	0.000000	2158.56	182.75
2	FID	ACIS-S-5	7.24	11504	0.037	-0.008	0.011	0.022	0.000000	0.000000	-1807.48	176.39
3	GUIDE	300559960	7.88	23005	-0.165	-0.132	0.056	0.091	22.944463	30.624765	870.61	1437.74
4	GUIDE	300559832	7.86	23004	0.028	0.235	0.056	0.090	24.407732	30.552794	-1945.21	-2125.66
5	GUIDE	300556352	8.42	23000	0.095	-0.048	0.058	0.095	23.404474	30.389211	-645.76	763.33
6	GUIDE	300423280	8.91	22996	-0.144	-0.110	0.073	0.119	22.470839	30.803648	2246.74	2256.35
7	GUIDE	300559160	9.41	22996	0.188	0.055	0.076	0.124	24.161026	30.632205	-1274.40	-1660.37

## 2.4 Star Slots

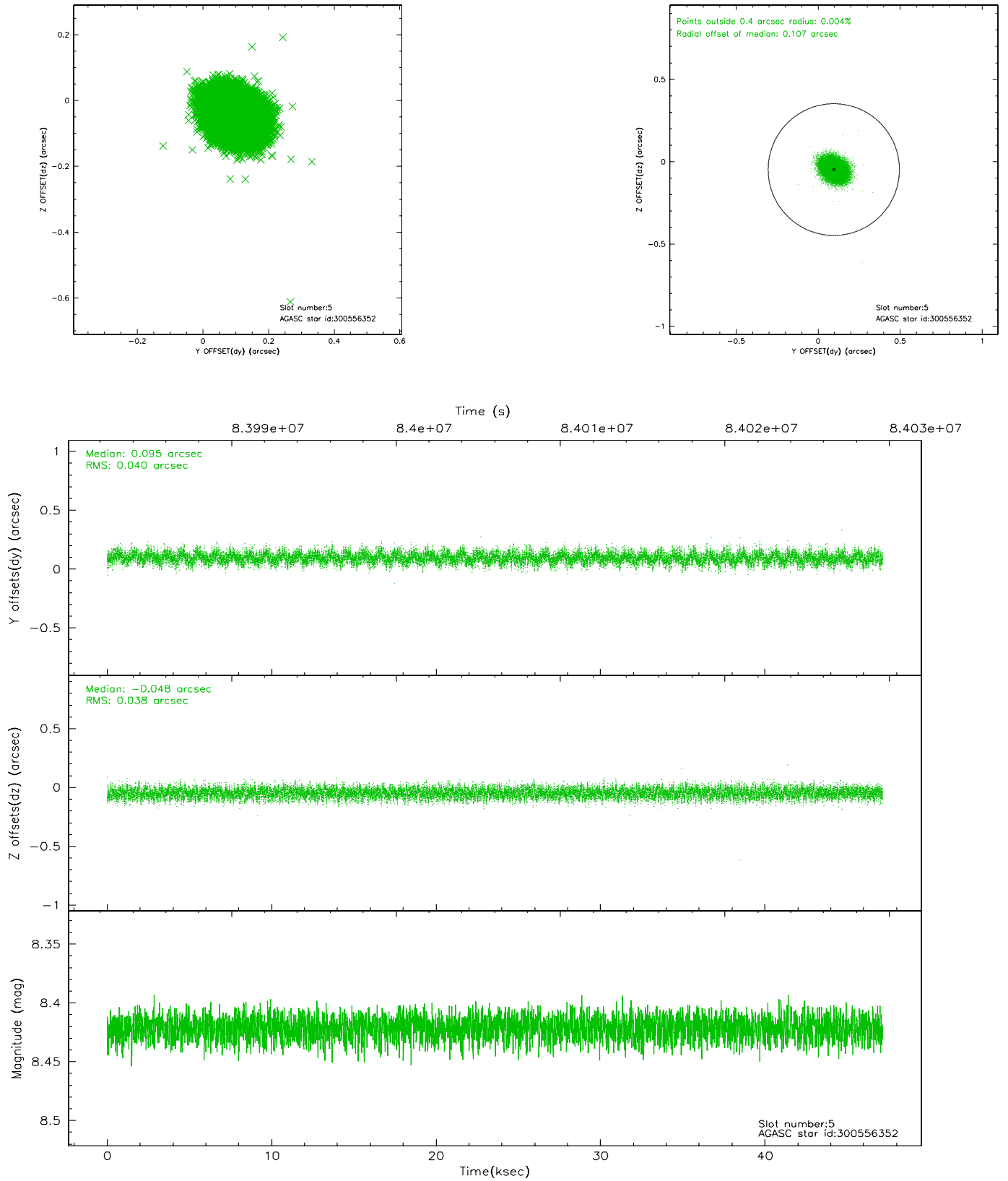
### 2.4.1 Slot 3



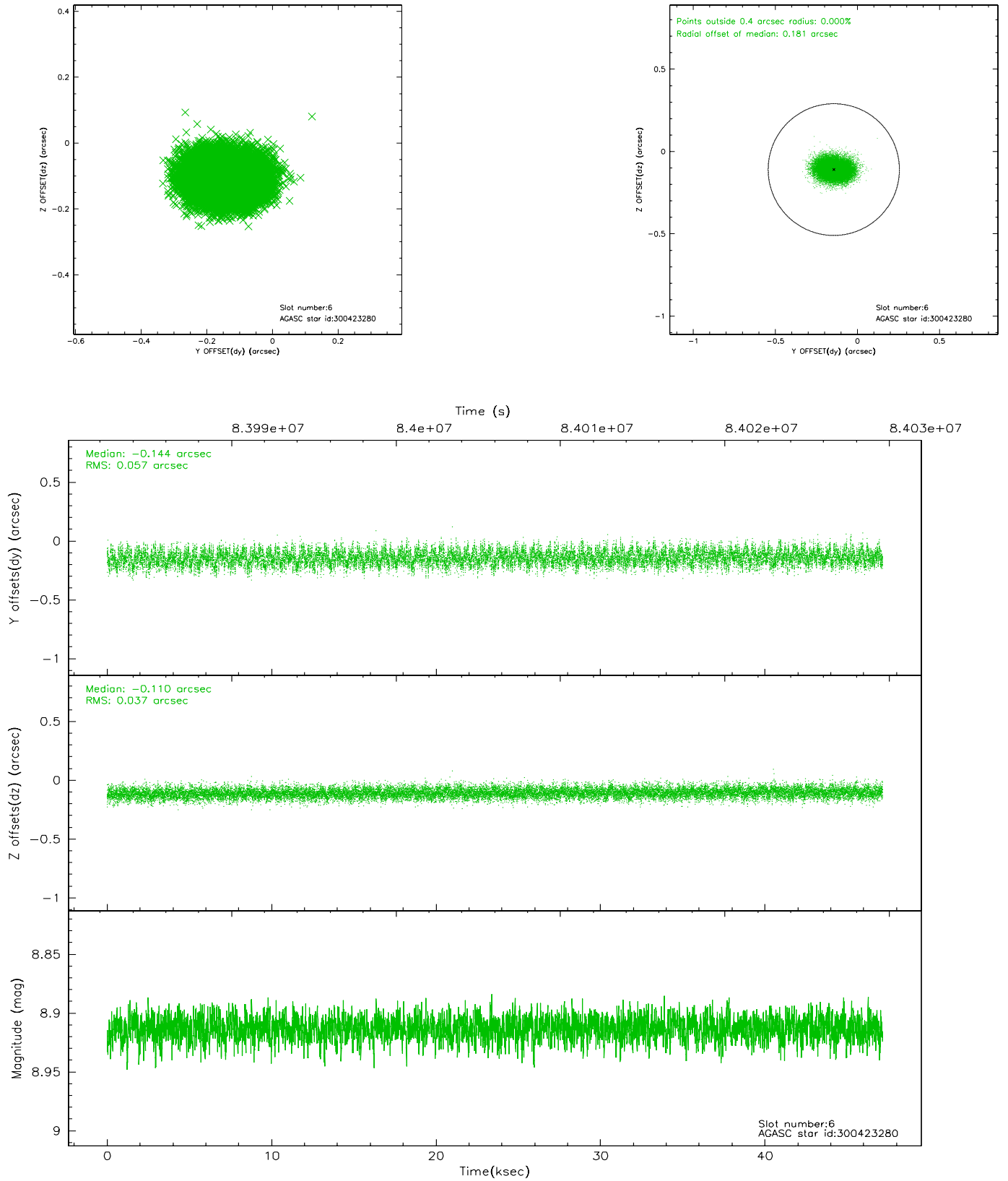
## 2.4.2 Slot 4



### 2.4.3 Slot 5

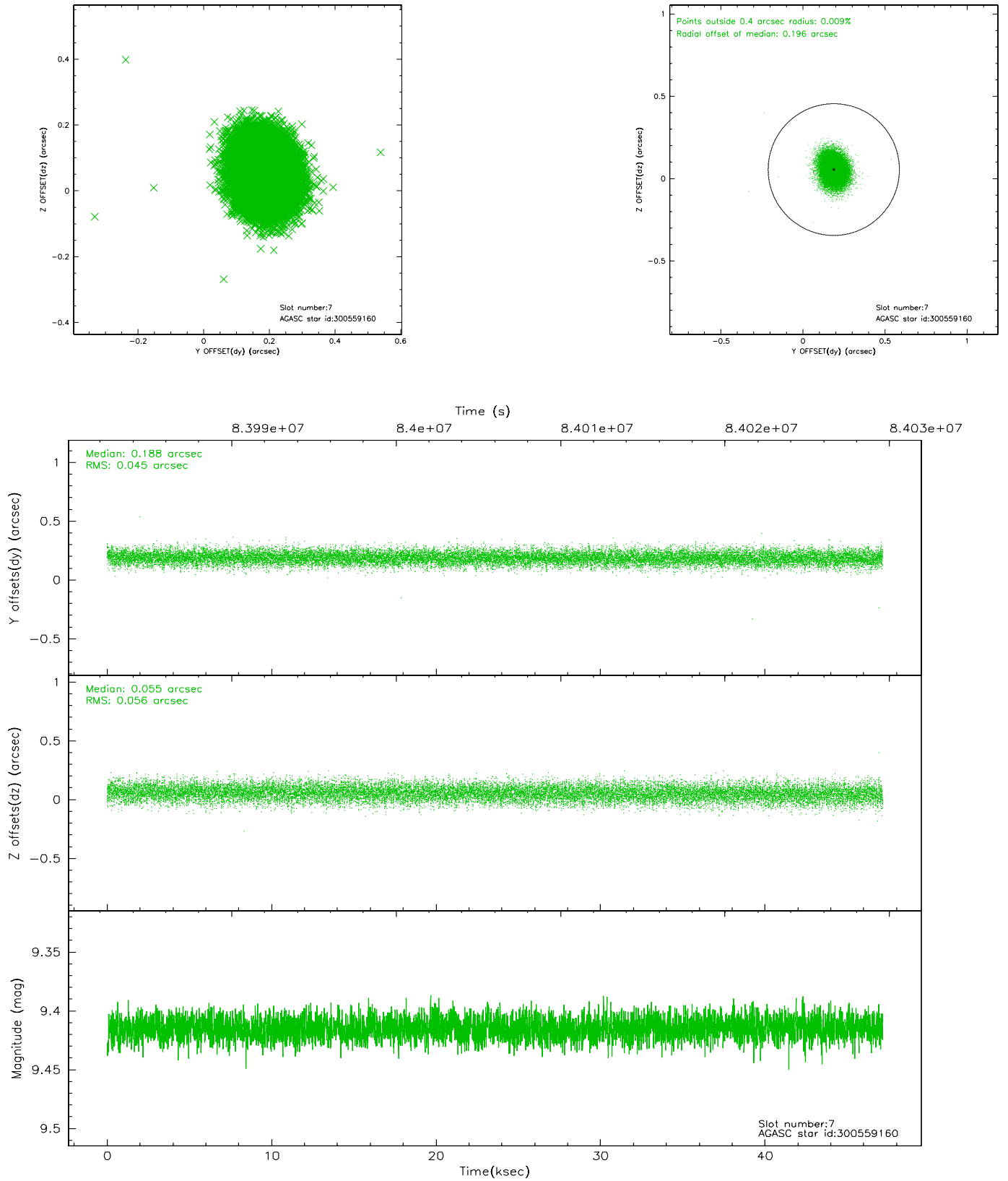


## 2.4.4 Slot 6



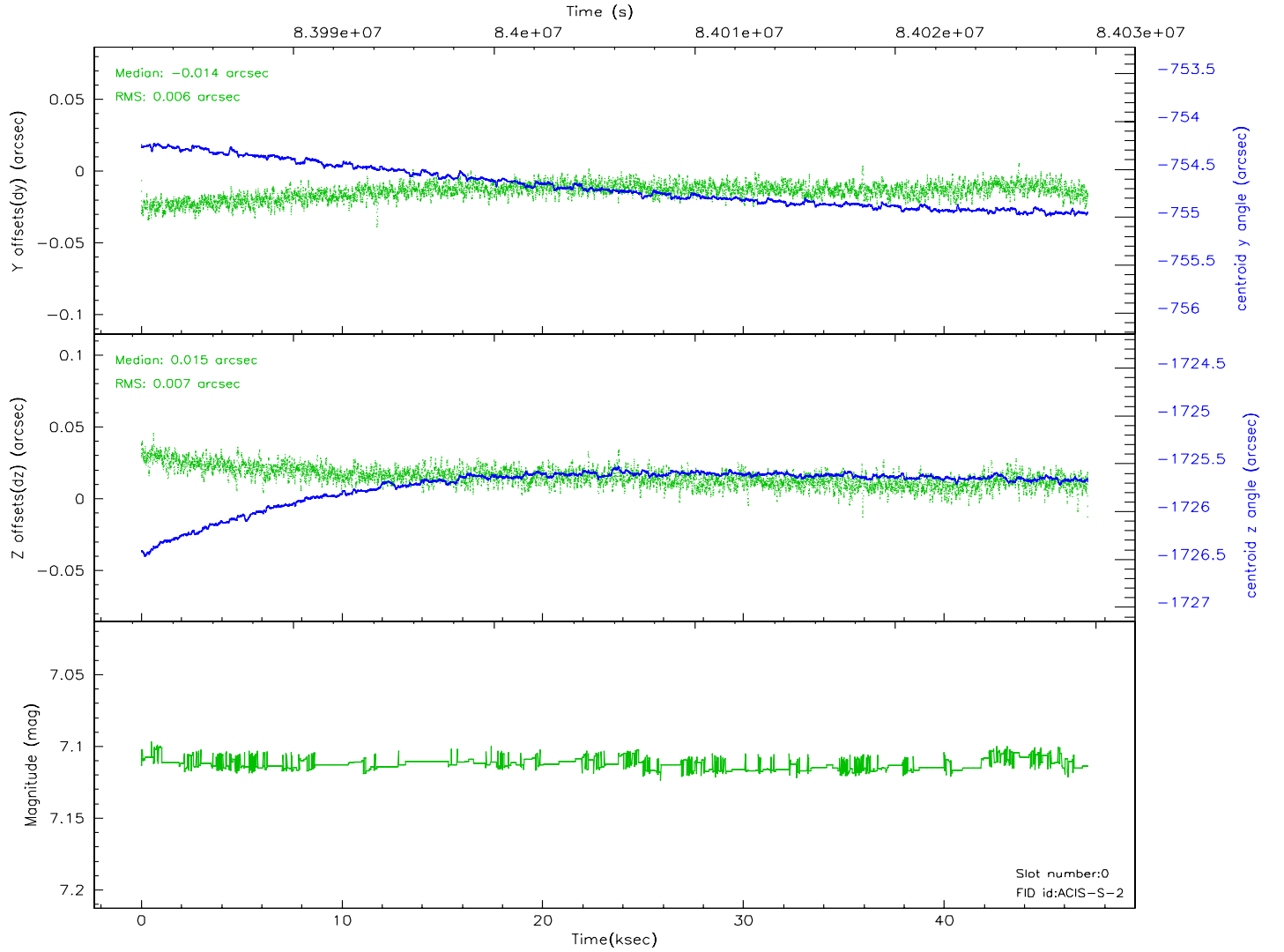
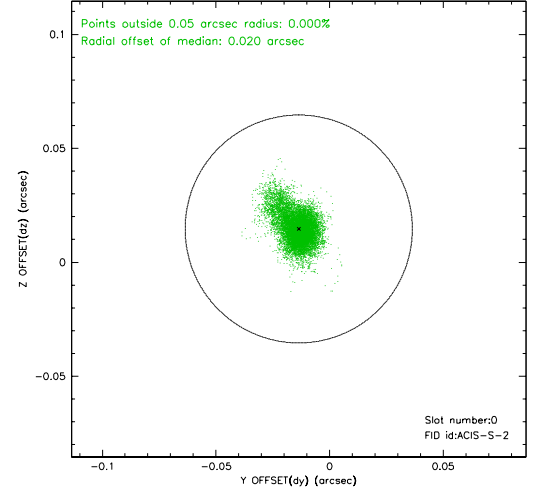
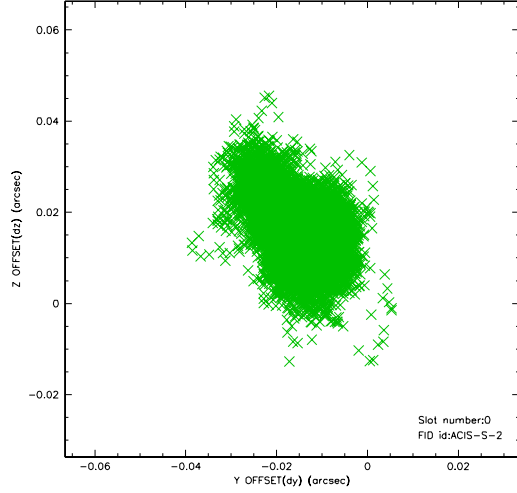


## 2.4.5 Slot 7

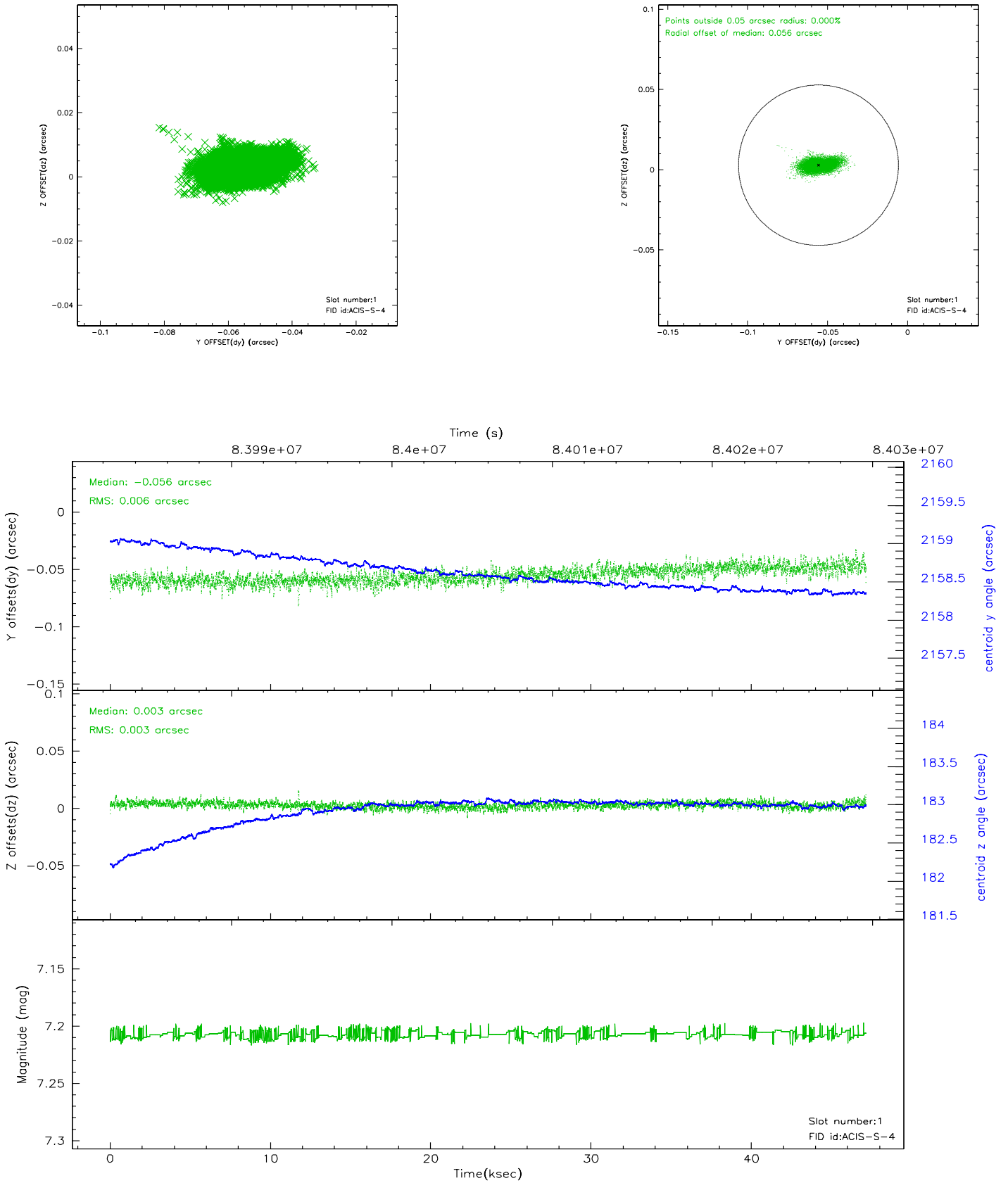


## 2.5 FID Slots

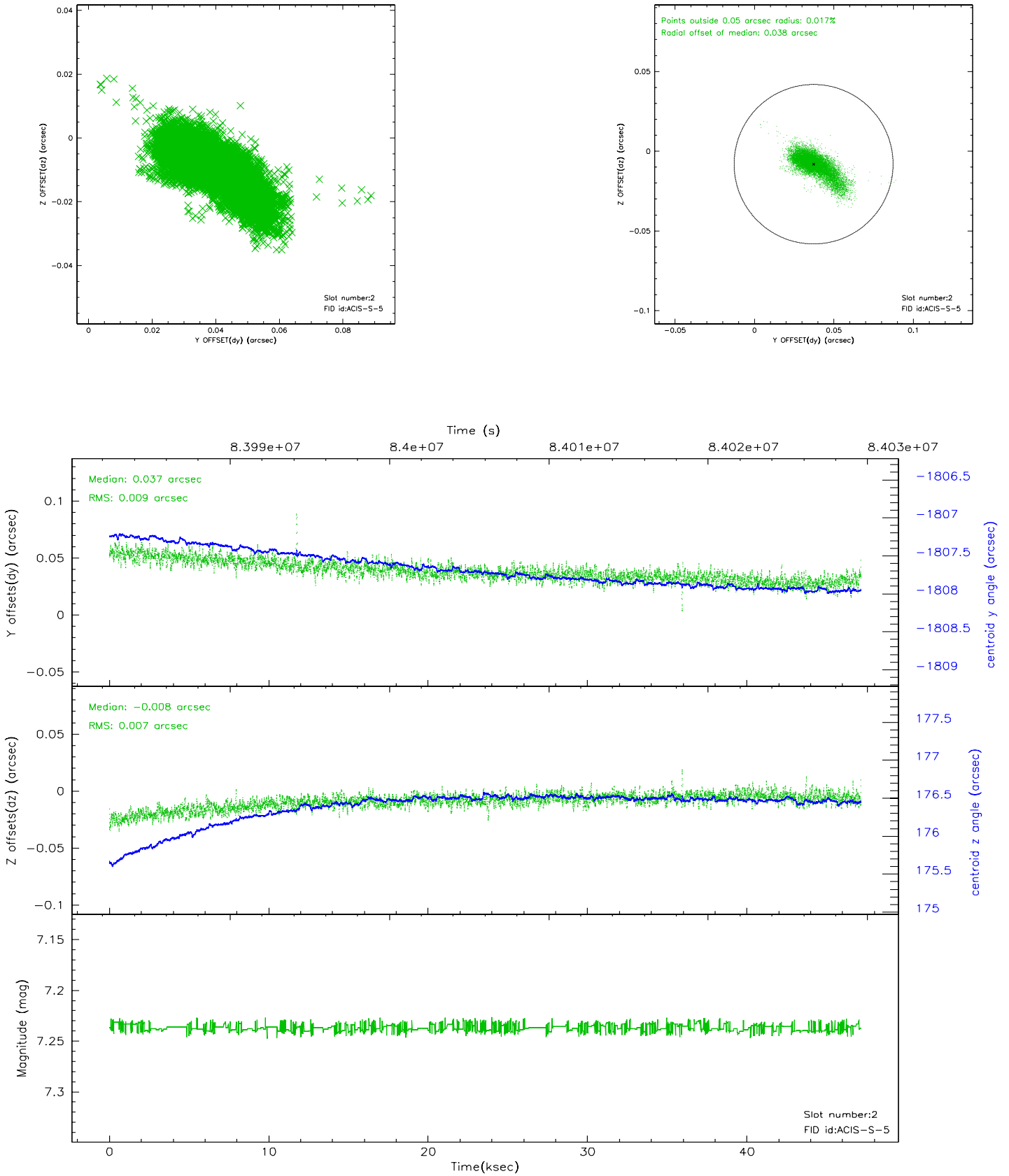
### 2.5.1 Slot 0



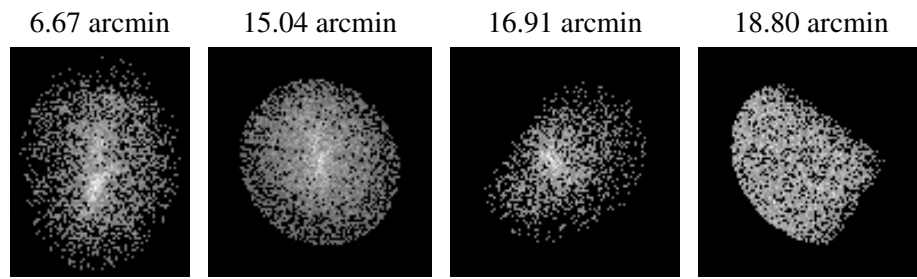
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.854

### A.2 Comments