

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3323 - L2 Version 001  
Chandra X-Ray Center

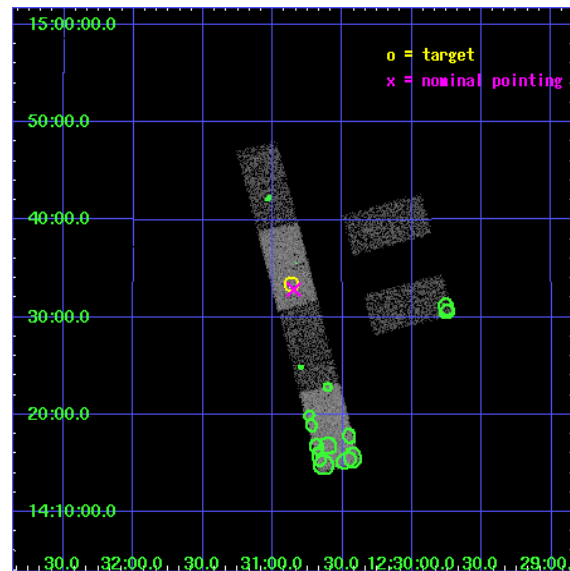
L2 Processing Date : Sep 26 2006

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# 1 Front

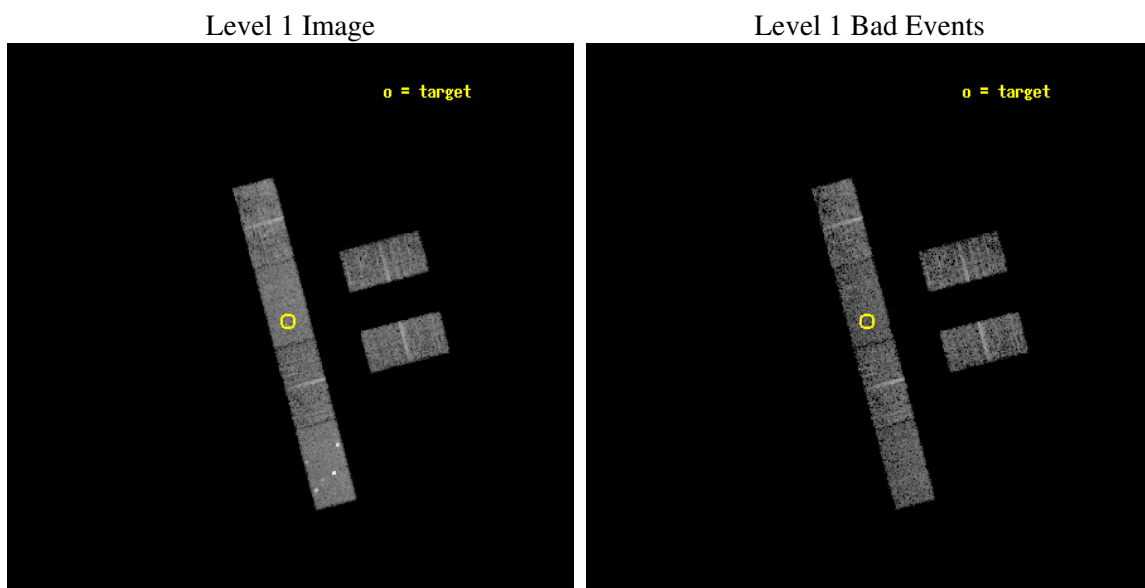
seq_num	900162
obs_id	3323
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?
observer	Professor Kirpal Nandra
object	AX J1230.8+1433
dtcycle	0
cycle	P
ra_targ	187.71625
dec_targ	14.556389
ra_nom	187.71205908437
dec_nom	14.54760655664
roll_nom	255.29972223067
revision	2
ontime	5302.8000351191
livetime	5184.5913522869
ontime2	5302.8000351191
ontime3	5302.8000351191
ontime5	5302.8000351191
ontime6	5302.8000351191
ontime7	5302.8000351191
ontime8	5302.8000351191
l2events	29186



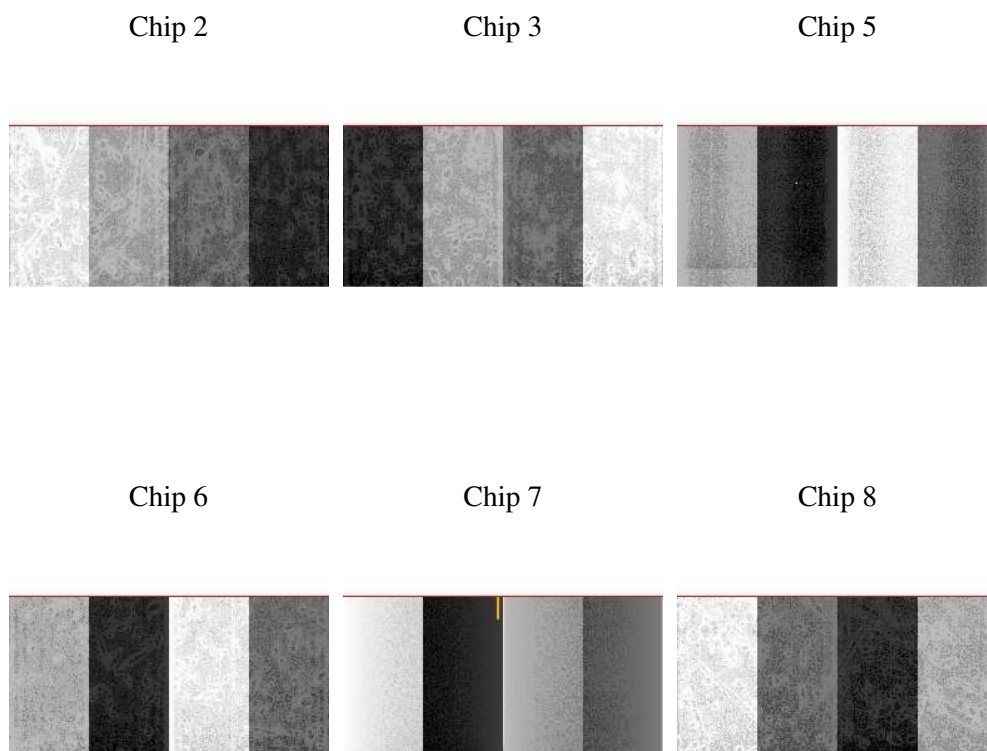
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.9
caldsver	3.2.3
date	2006-09-26T08:38:04
revision	2

sched_exp_time	4900.000000
ontime	5305.8105681539
ontime2	5305.8105681539
ontime3	5305.8105681539
ontime5	5305.8105681539
ontime6	5305.8105681539
ontime7	5305.8105681539
ontime8	5305.8105681539
l1events	132192

### 2.1.4 Events

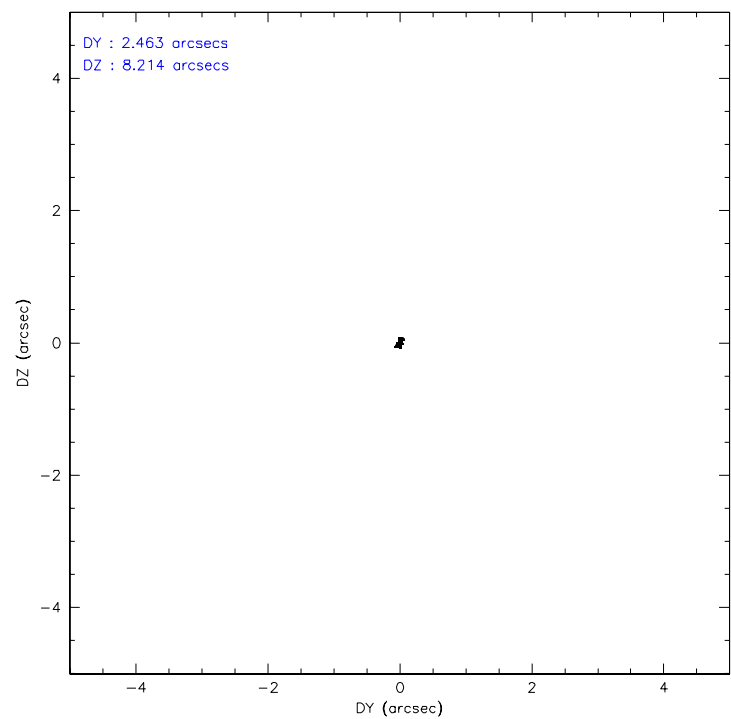
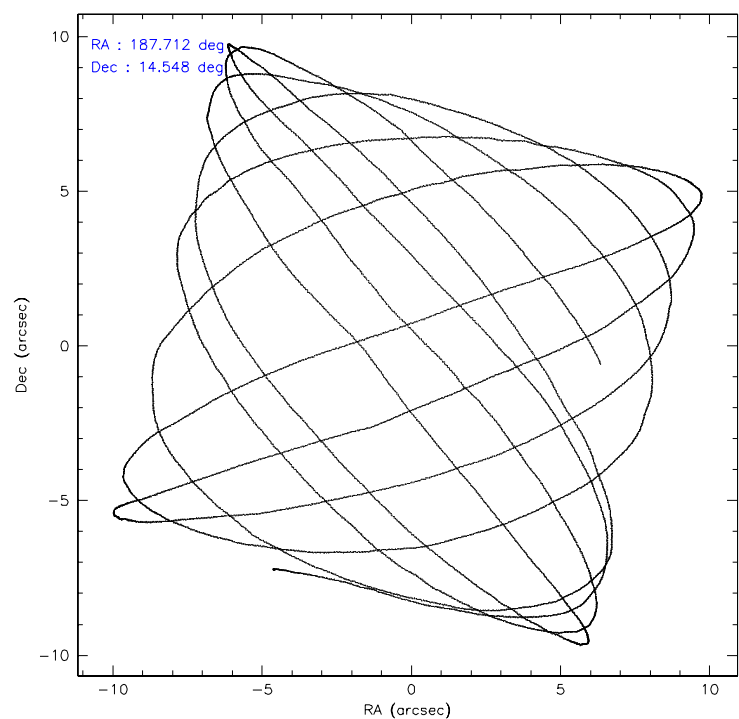
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19416	17623	29444	18952	23215	23542
rejected events	16820	15230	13502	16387	13473	17869
rejected %	86%	86%	45%	86%	58%	75%

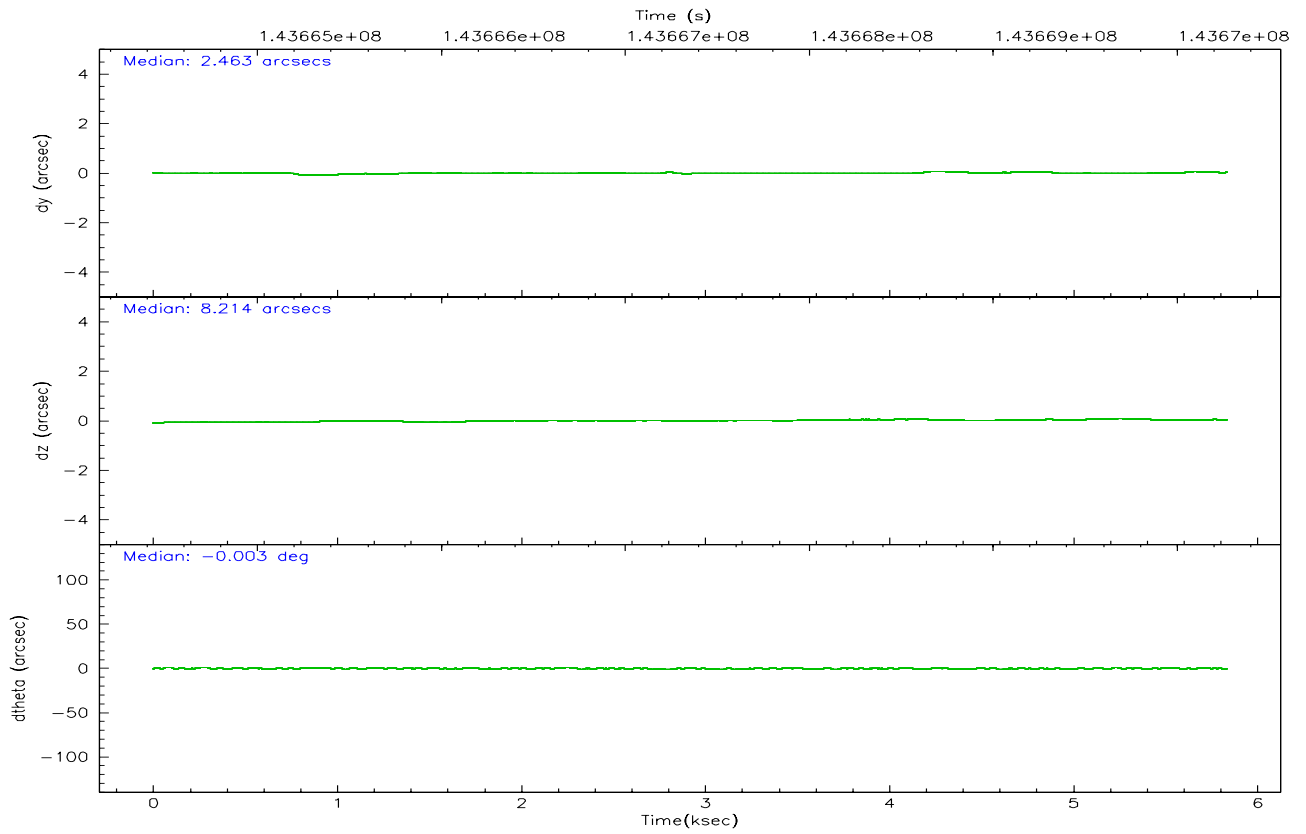
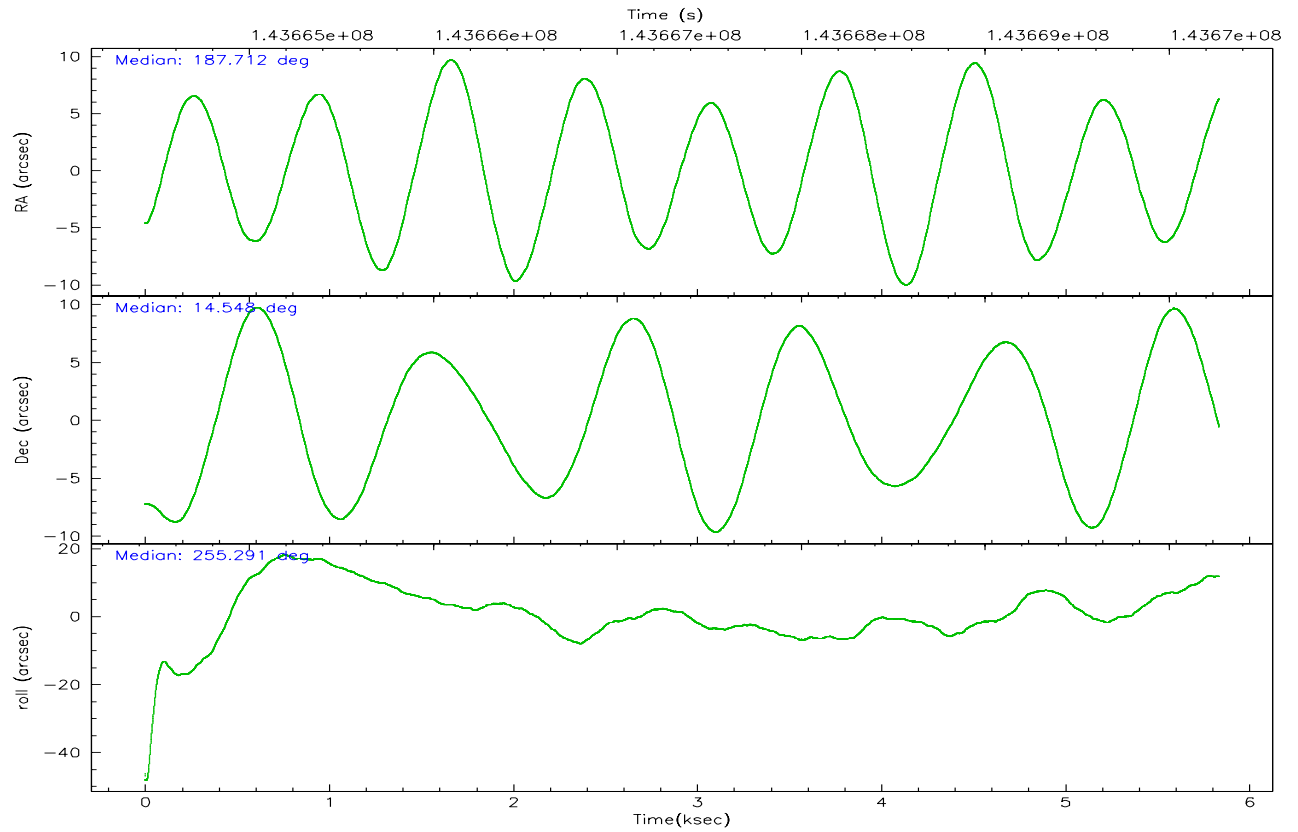
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1160	1058	5211	1091	794	2005
	5%	6%	17%	5%	3%	8%
grade 1 events	7	4	46	4	12	11
	0%	0%	0%	0%	0%	0%
grade 2 events	501	443	3834	490	2402	1084
	2%	2%	13%	2%	10%	4%
grade 3 events	248	236	323	258	657	751
	1%	1%	1%	1%	2%	3%
grade 4 events	271	258	303	299	651	603
	1%	1%	1%	1%	2%	2%
grade 5 events	623	641	1150	694	1586	887
	3%	3%	3%	3%	6%	3%
grade 6 events	417	400	6274	427	5245	1233
	2%	2%	21%	2%	22%	5%
grade 7 events	16189	14583	12303	15689	11868	16968
	83%	82%	41%	82%	51%	72%

## 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	187.704267	187.7120590843748	Subarray requested	1/2	1/2
Pointing Dec	14.573774	14.54760655664008	Subarray start row	0	257
Pointing Roll	255.145175	255.2997222306656	Subarray row count	1024	512
SIM focus pos (mm)	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
SIM defocus (mm)	0	0.001444936568705701	Primary exposure time	0.000000	1.8
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	143665366.184000	143664026.23267			
Observation start date	2002-07-21T19:01:42	2002-07-21T18:40:26			
Observation end time	143670266.184000	143670404.80793			
Observation end date	2002-07-21T20:23:22	2002-07-21T20:26:44			
Read mode	TIMED	TIMED			

2.3 Aspect





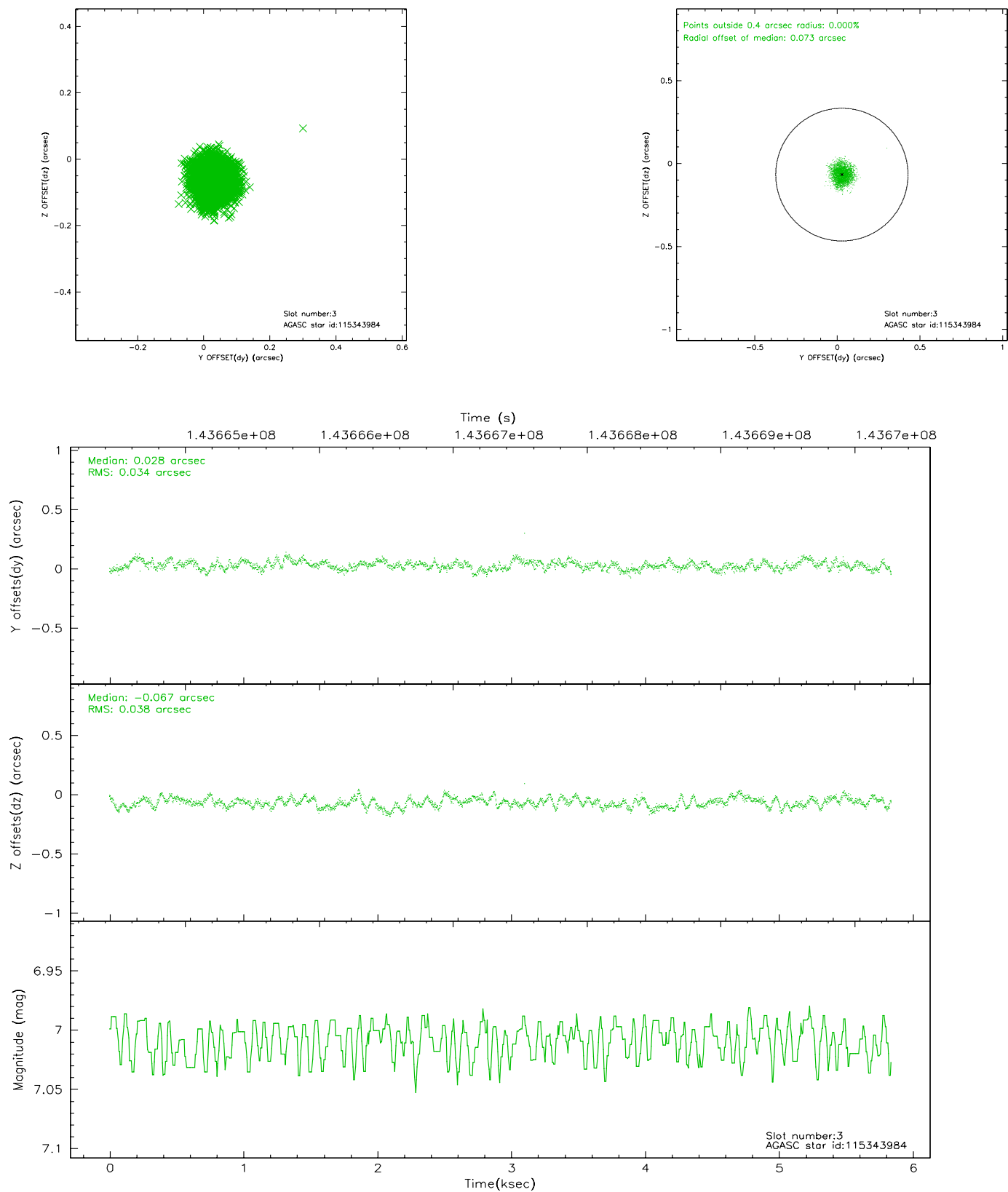
### Slot Statistics

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	1424	0.007	0.029	0.007	0.012	0.000000	0.000000	-755.10	-1729.33
1	FID	ACIS-S-4	7.20	1423	-0.084	-0.011	0.005	0.009	0.000000	0.000000	2157.64	178.03
2	FID	ACIS-S-5	7.23	1423	0.046	-0.010	0.006	0.010	0.000000	0.000000	-1806.57	172.91
3	GUIDE	115343984	7.01	2847	0.028	-0.067	0.055	0.085	187.445111	14.650185	-34.10	-943.42
4	BAD	115344184	9.97	2721	-0.661	0.217	0.115	0.194	188.223378	14.673173	-810.78	1654.46
5	GUIDE	115344368	10.29	2846	0.321	-0.324	0.143	0.231	187.412928	14.132996	1794.72	-576.05
6	GUIDE	115345056	9.44	2847	0.378	0.090	0.097	0.154	187.860673	14.574305	-140.05	525.76
7	GUIDE	189399616	10.55	2826	-0.100	0.092	0.147	0.251	187.345601	15.111891	-1553.03	-1701.92

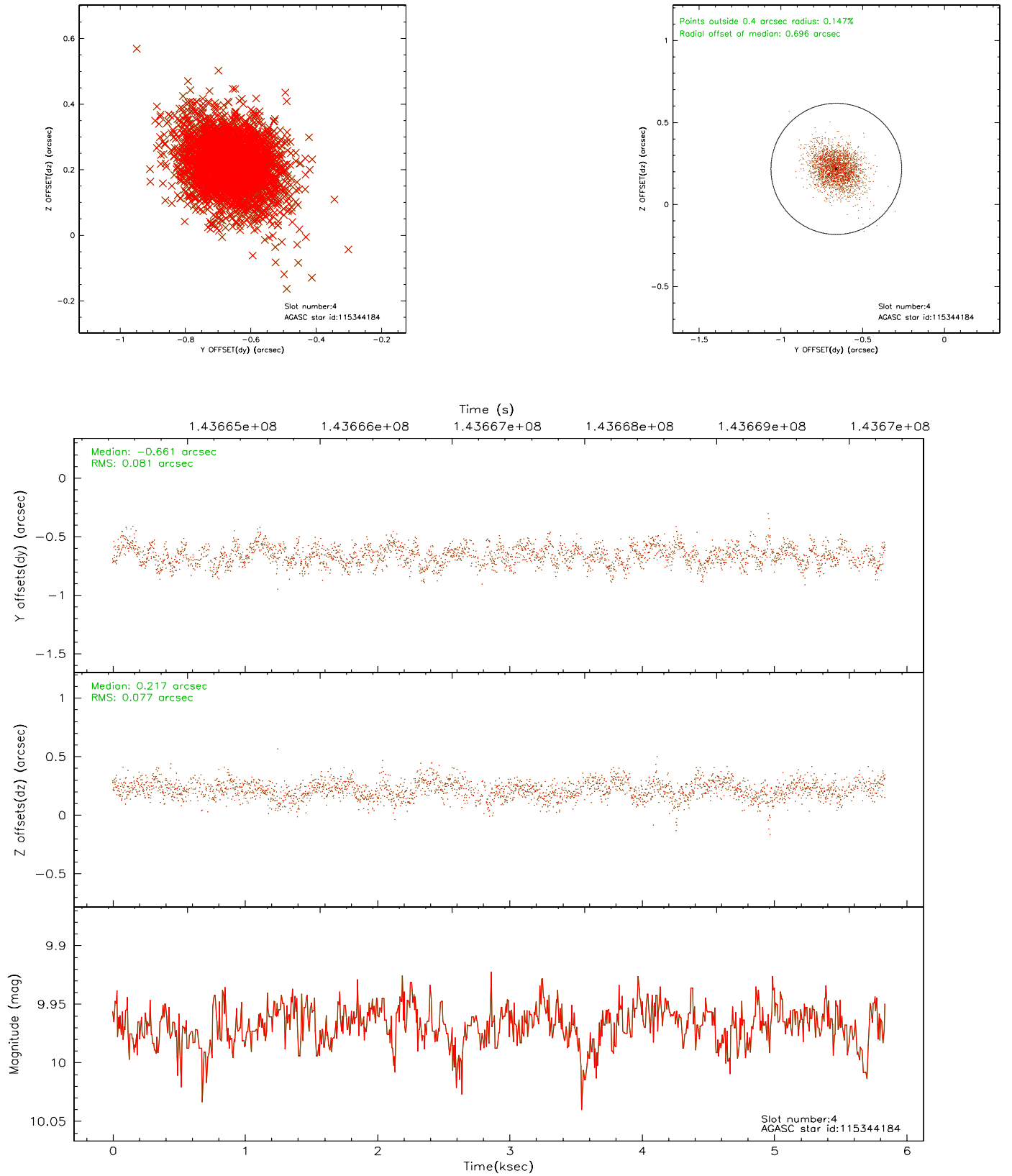


## 2.4 Star Slots

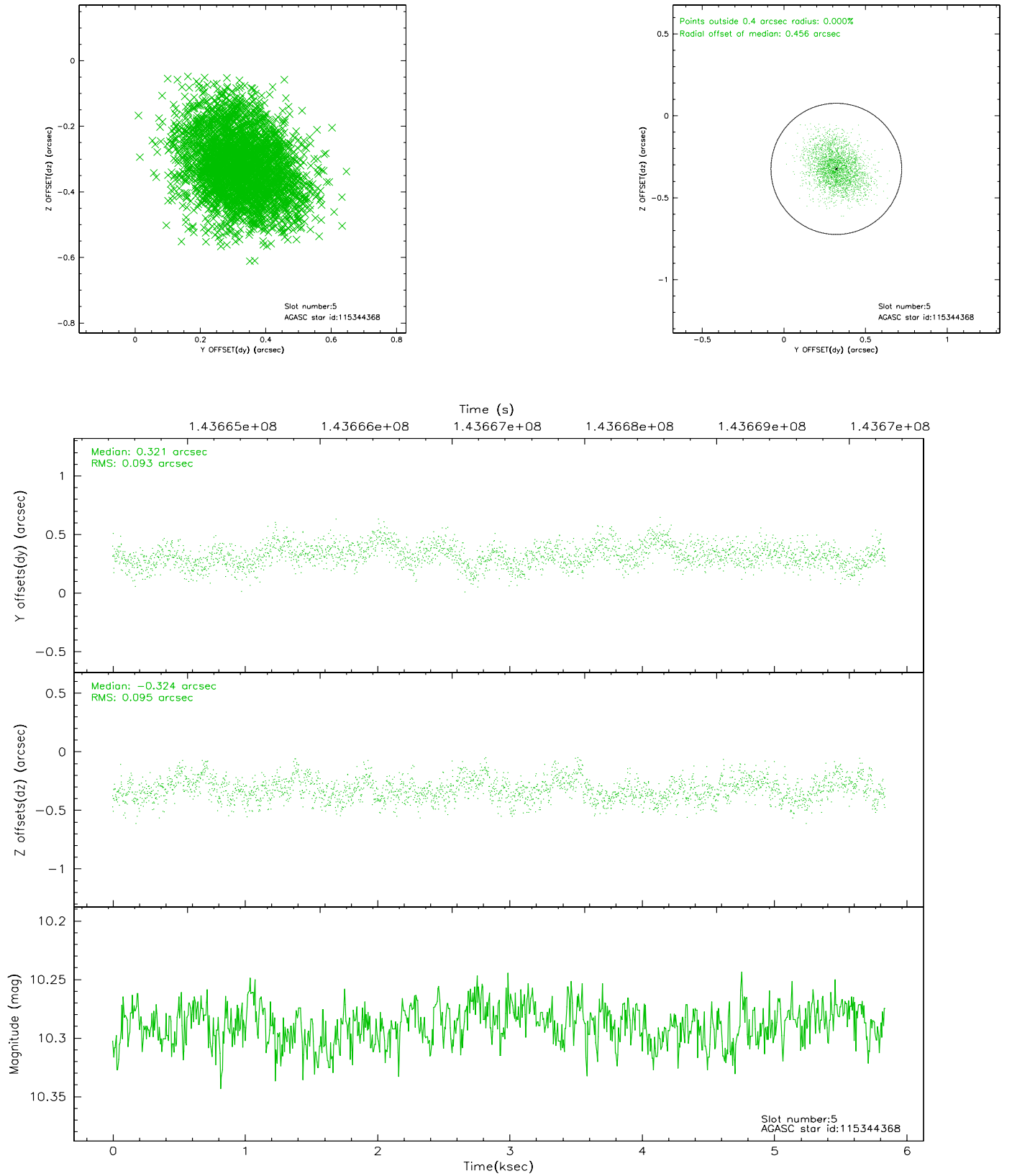
### 2.4.1 Slot 3



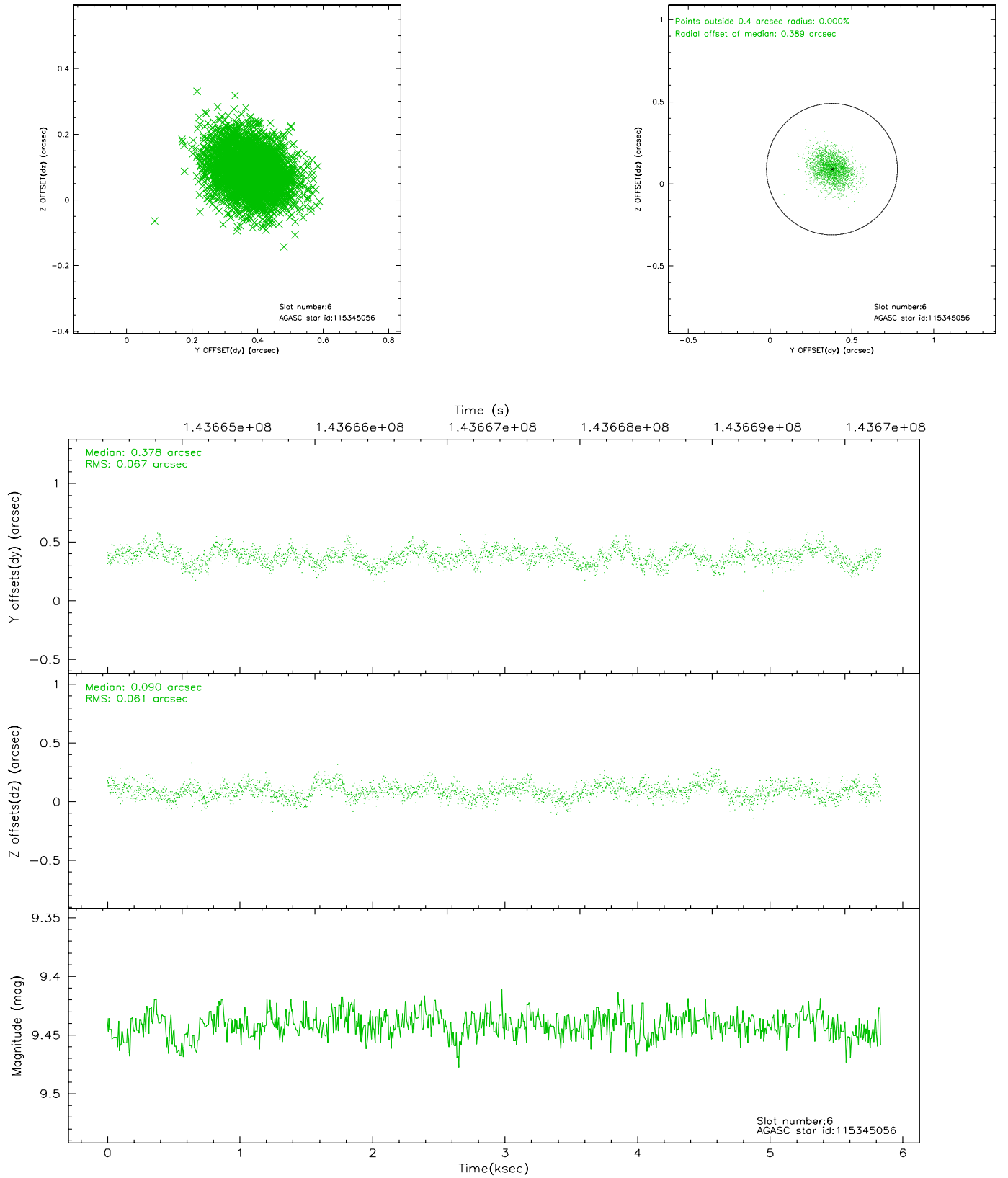
## 2.4.2 Slot 4



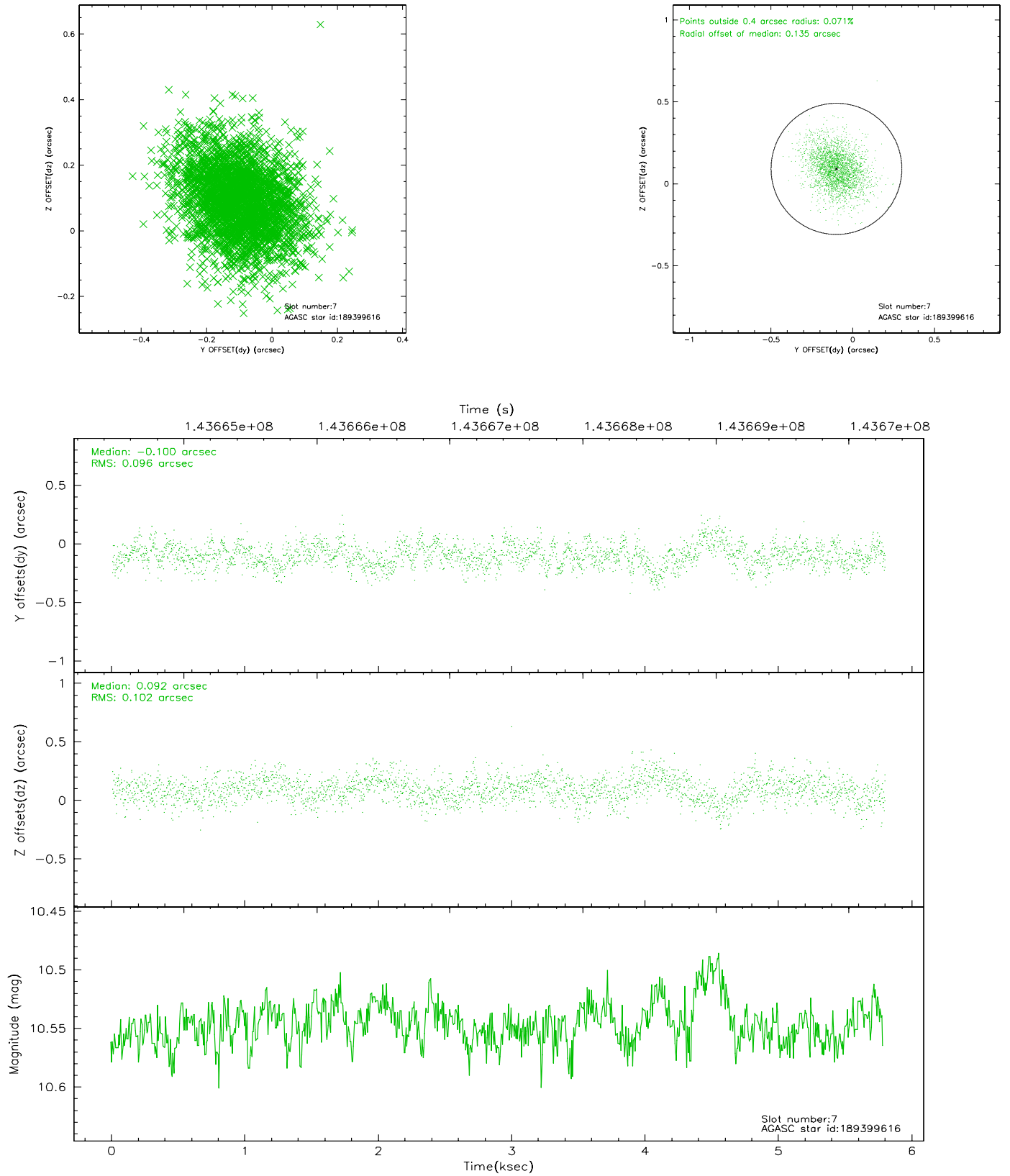
### 2.4.3 Slot 5



## 2.4.4 Slot 6

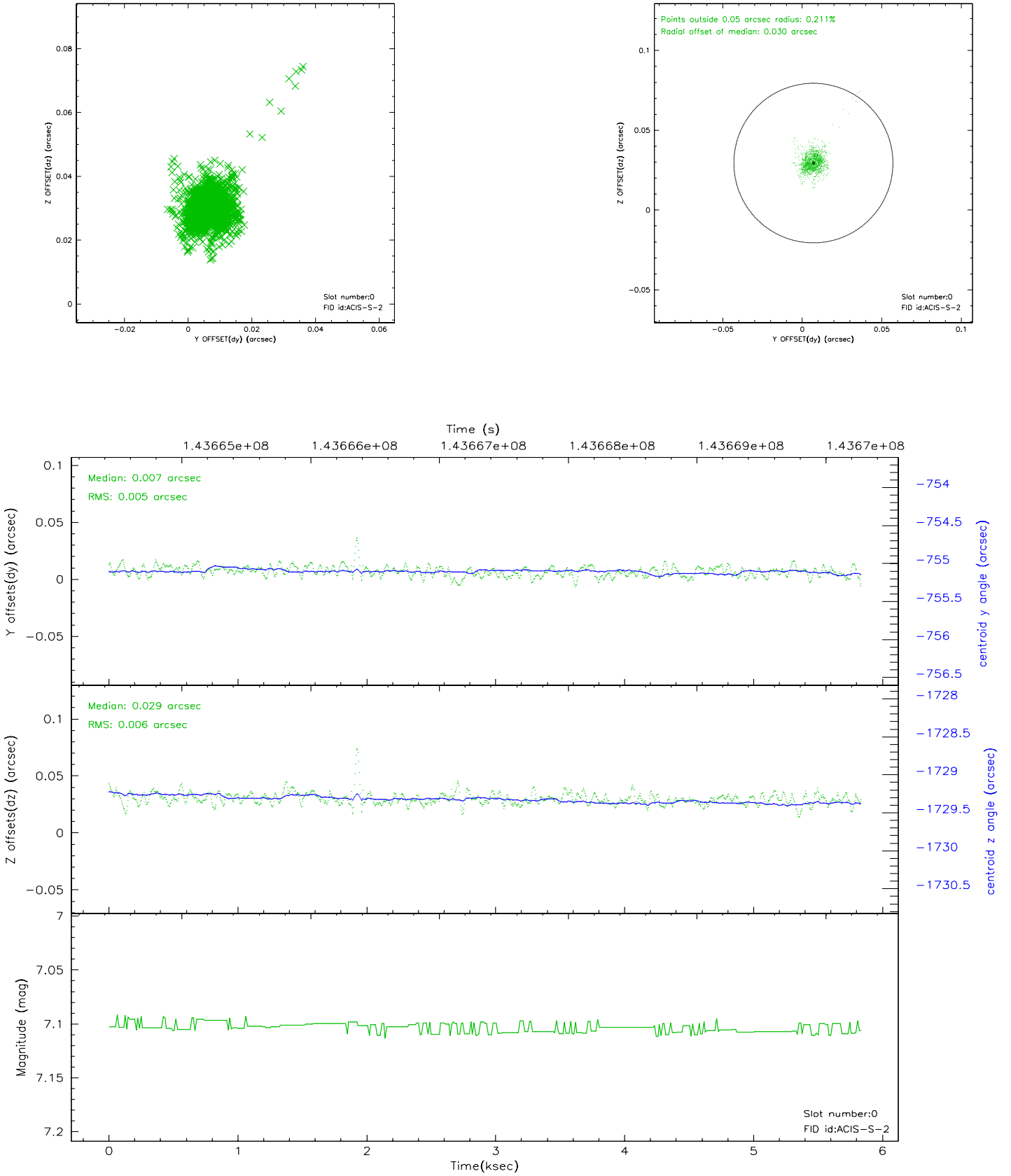


## 2.4.5 Slot 7

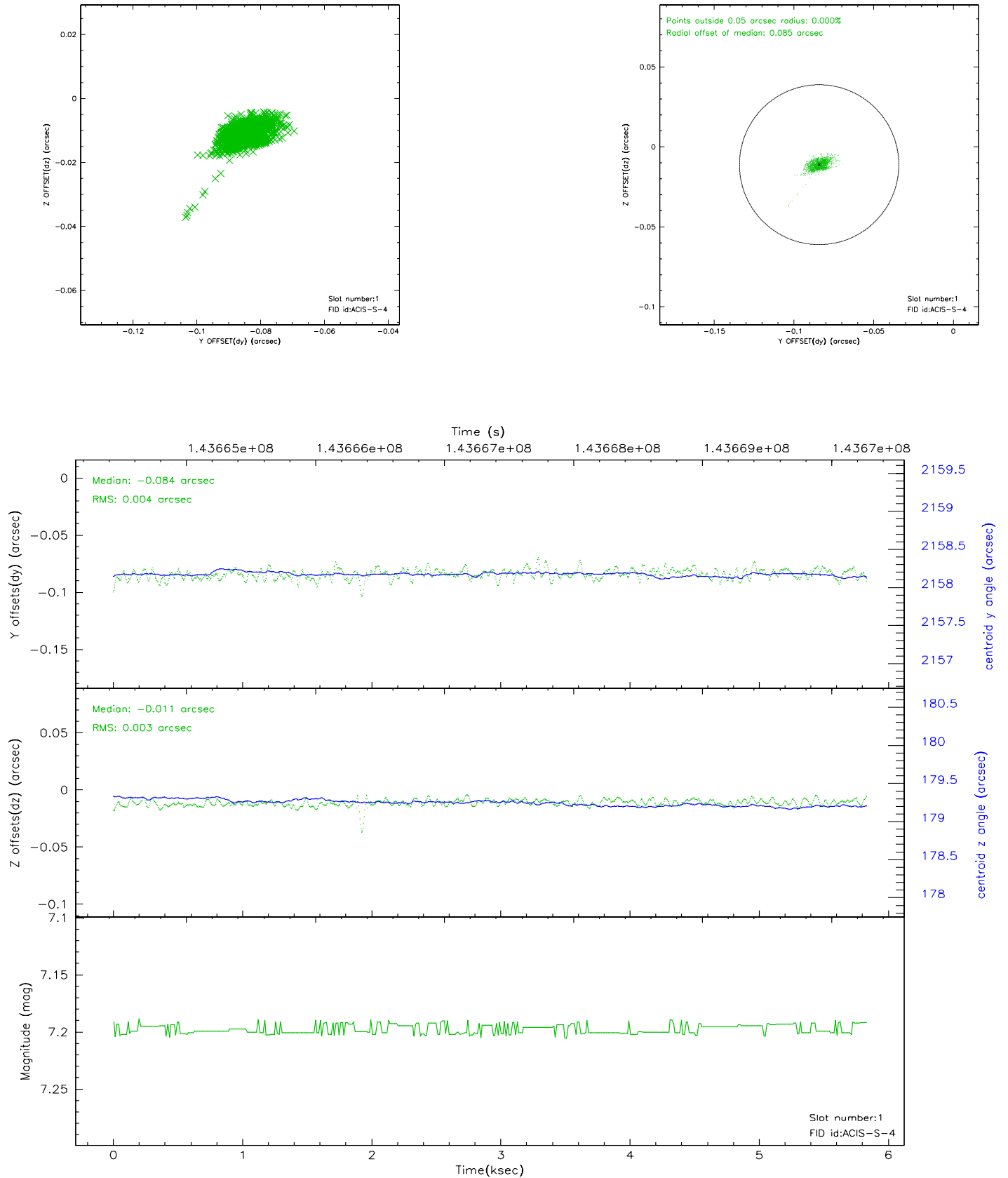


## 2.5 FID Slots

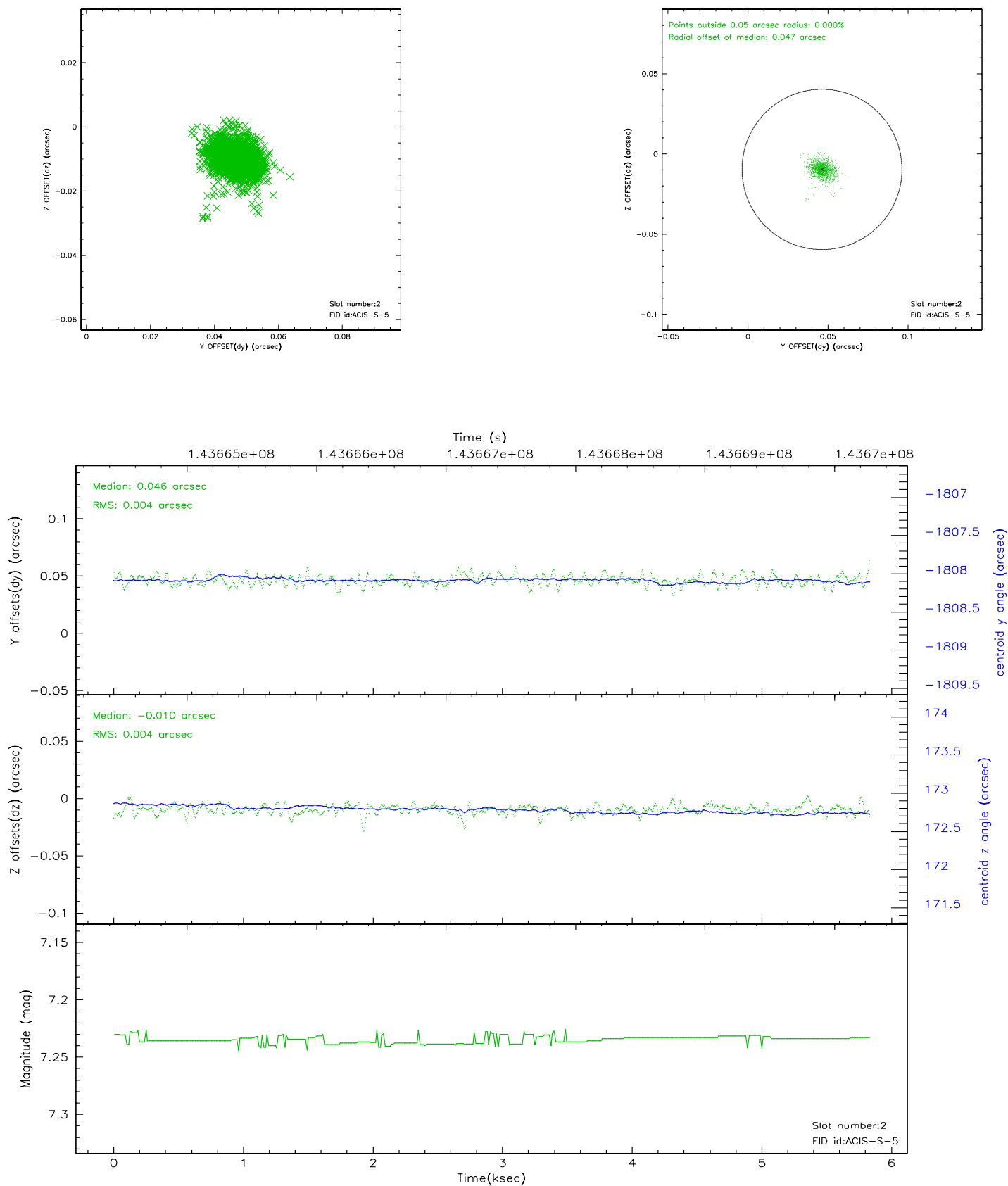
### 2.5.1 Slot 0



## 2.5.2 Slot 1

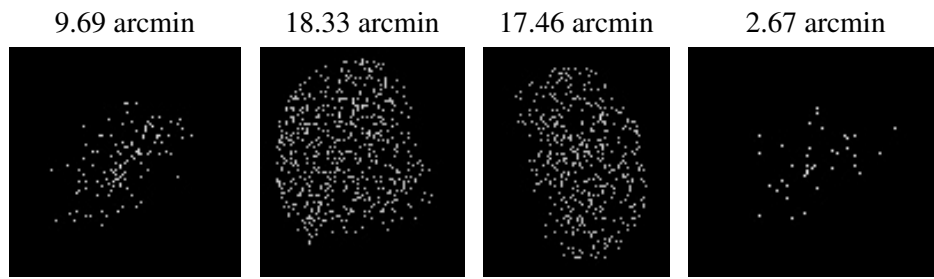


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.09.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.302

## A.2 Comments

The guide star in slot 4 was only tracked for 94% of the observation, and is therefore marked 'bad' and not used in the aspect solution calculations. The loss of a guide star is not expected to degrade the aspect solution.