

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 4972 - L2 Version 001  
Chandra X-Ray Center

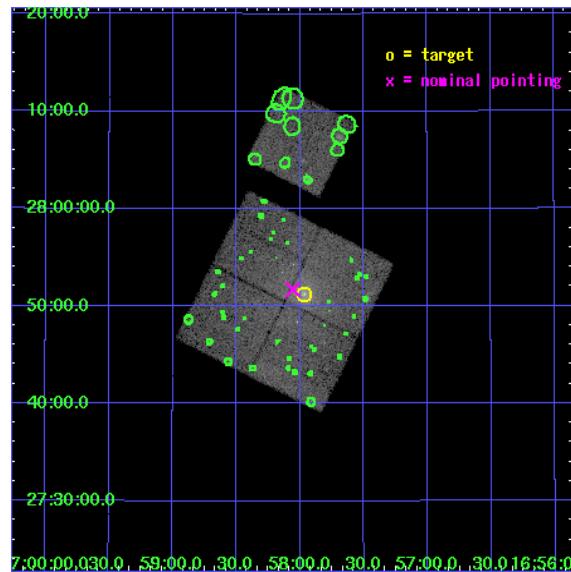
L2 Processing Date : Jun 22 2006

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# 1 Front

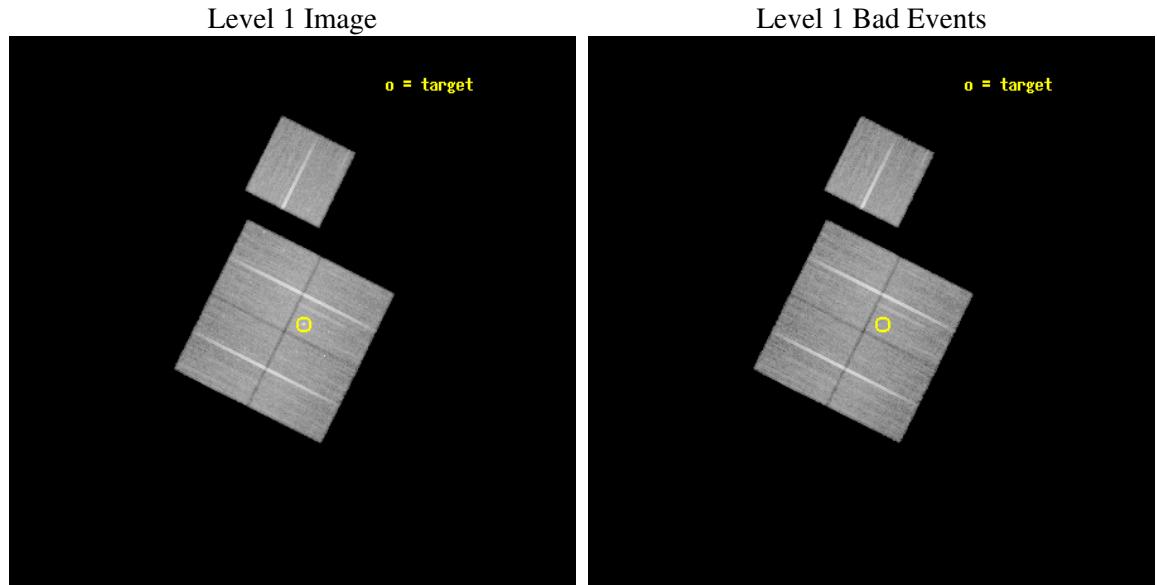
seq_num	800417
obs_id	4972
title	Testing Formation Models and Heating and Feedback Mechanisms In Galaxy Groups
observer	Dr. William Forman
object	NGC6269
dtycycle	0
cycle	P
ra_targ	254.492083
dec_targ	27.854444
ra_nom	254.51420007275
dec_nom	27.86211450072
roll_nom	26.539052746068
revision	2
ontime	40160.458932638
livetime	39635.732970984
ontime0	40163.599922776
ontime1	40154.176992089
ontime2	40157.31799233
ontime3	40160.458932638
ontime6	40157.317962408
2events	111309



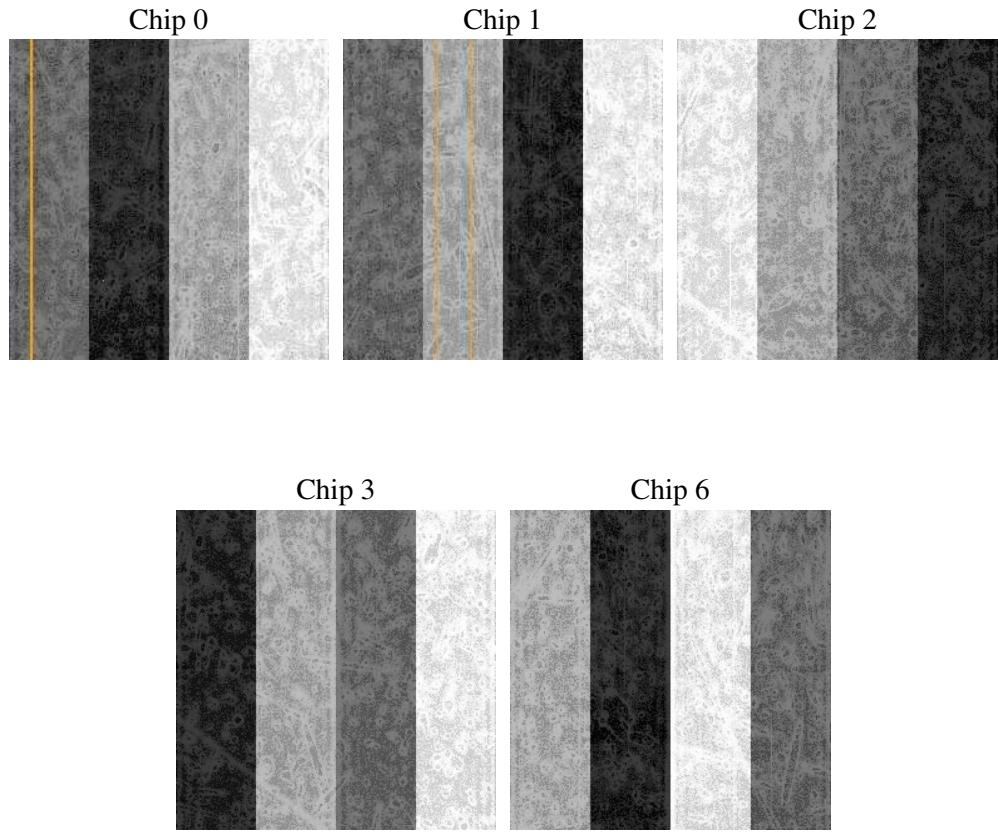
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-06-22T15:44:59
revision	2

sched_exp_time	40000.000000
ontime	41995.188116133
ontime0	41998.329106271
ontime1	41988.906175584
ontime2	41992.047175825
ontime3	41995.188116133
ontime6	41992.047145903
l1events	1083939

### 2.1.4 Events

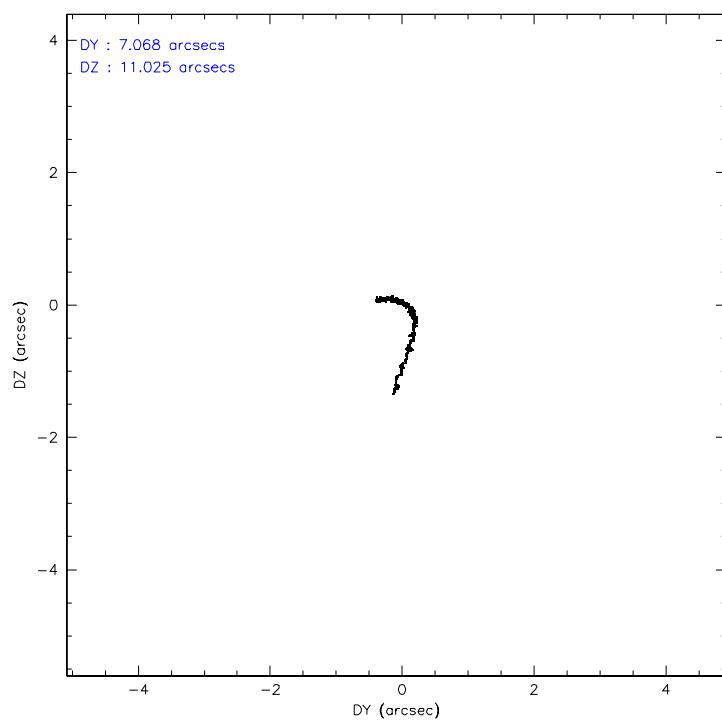
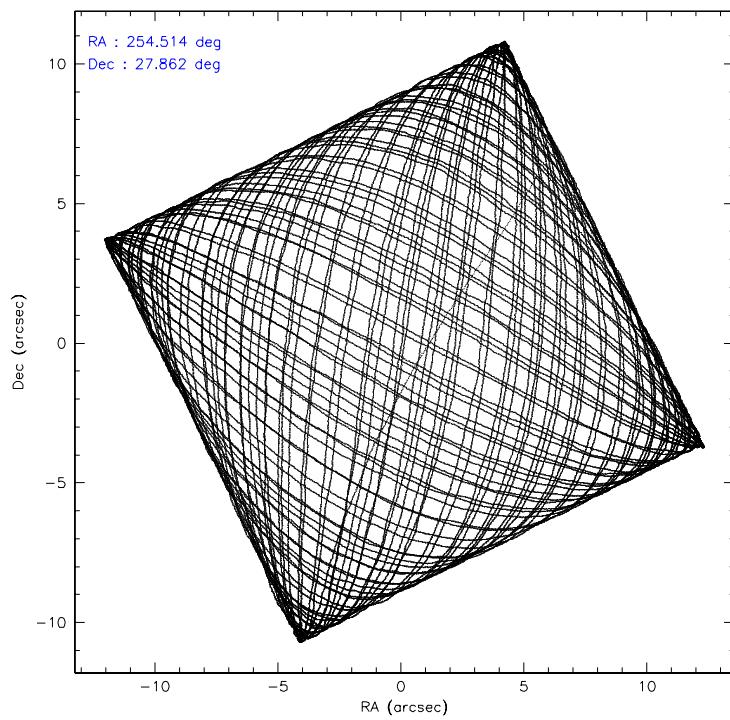
	<b>ccd 0</b>	<b>ccd 1</b>	<b>ccd 2</b>	<b>ccd 3</b>	<b>ccd 6</b>
level 1 events	200843	206171	230909	226081	219935
rejected events	177234	178302	205243	194780	198199
rejected %	88%	86%	88%	86%	90%

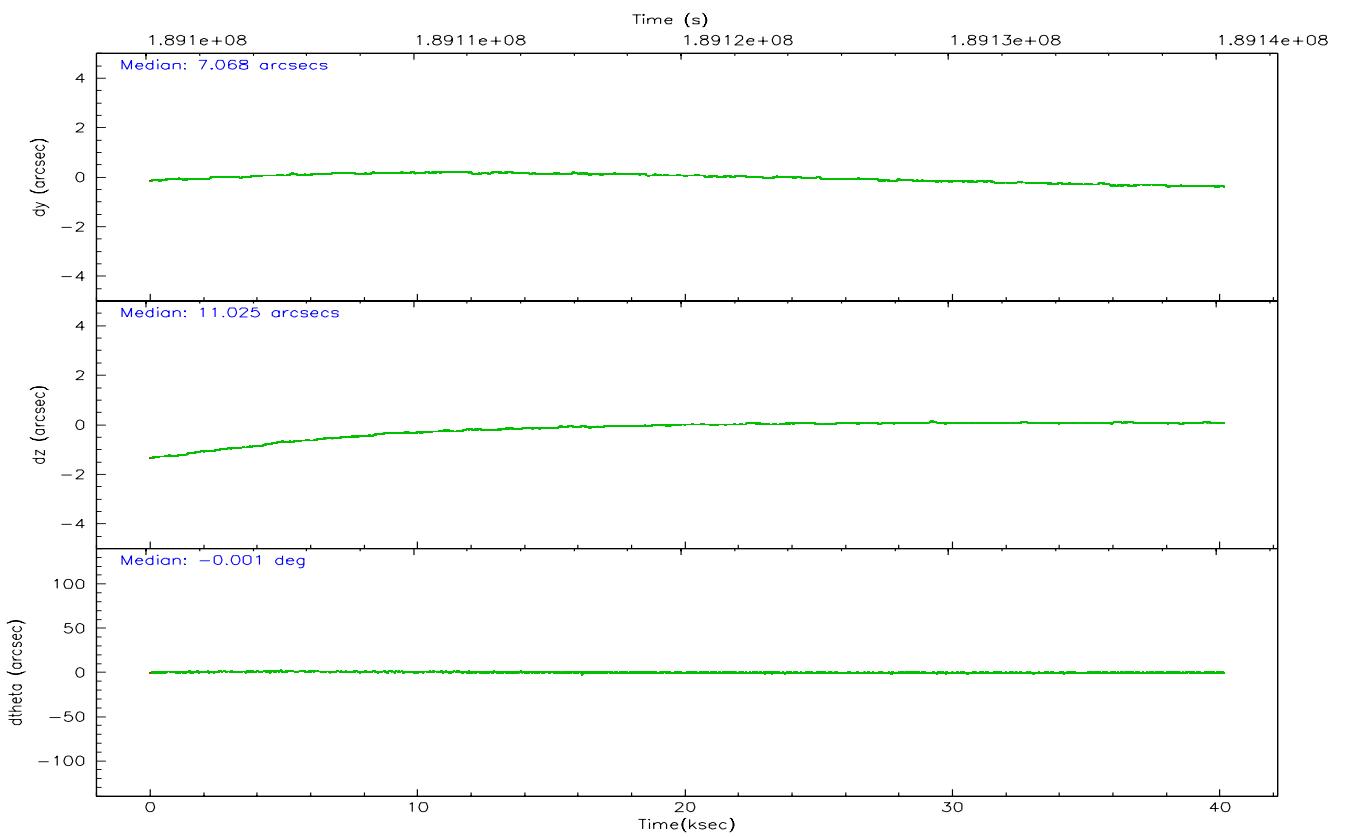
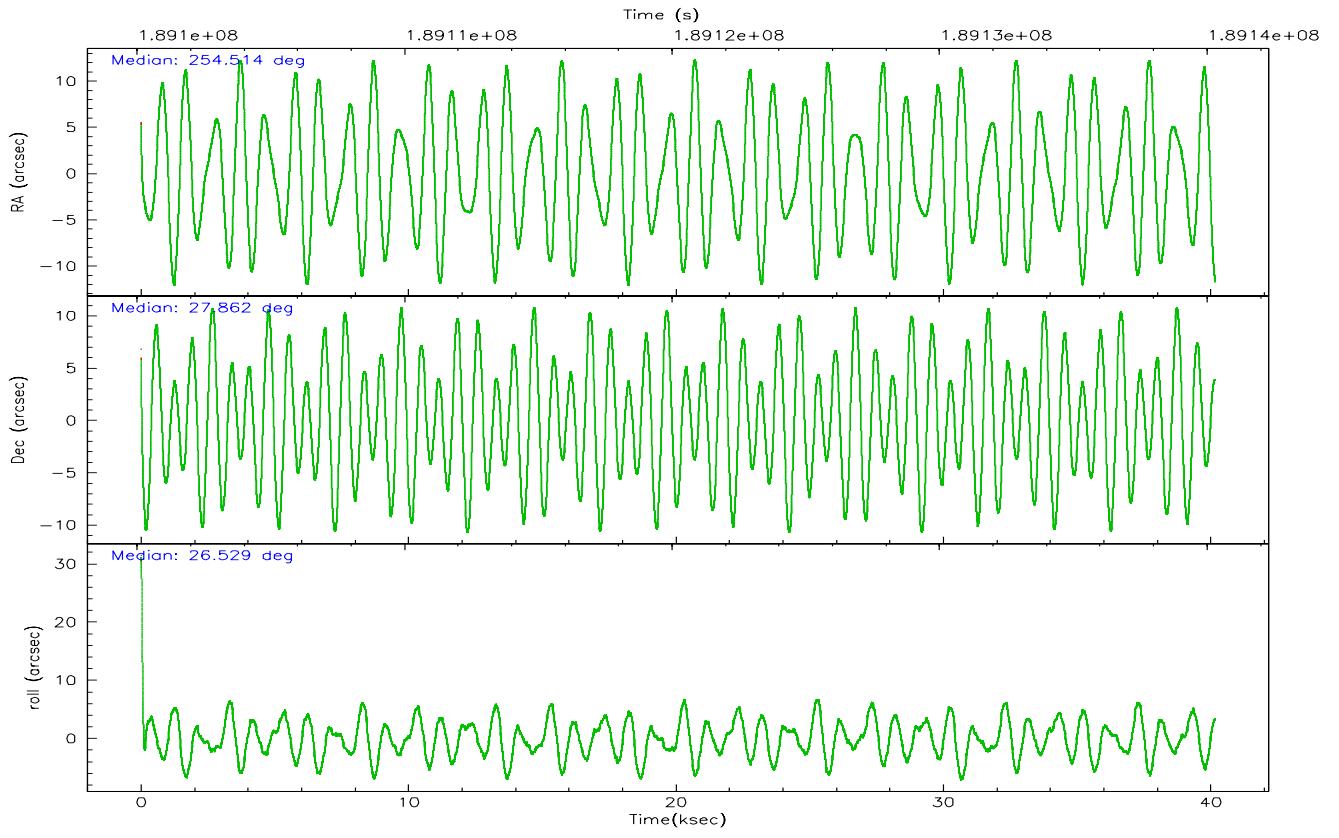
	<b>ccd 0</b>	<b>ccd 1</b>	<b>ccd 2</b>	<b>ccd 3</b>	<b>ccd 6</b>
grade 0 events	9938	12500	12185	17235	8068
	4%	6%	5%	7%	3%
grade 1 events	108	124	133	153	80
	0%	0%	0%	0%	0%
grade 2 events	5244	5672	5366	5287	4765
	2%	2%	2%	2%	2%
grade 3 events	2576	2908	2398	2764	2518
	1%	1%	1%	1%	1%
grade 4 events	2487	2789	2543	2707	2527
	1%	1%	1%	1%	1%
grade 5 events	7709	8225	7260	8733	8742
	3%	3%	3%	3%	3%
grade 6 events	4326	5025	4065	4229	4837
	2%	2%	1%	1%	2%
grade 7 events	168455	168928	196959	184973	188398
	83%	81%	85%	81%	85%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	254.497246	254.5142000727536	Alternating exposures requested	N	N
Pointing Dec	27.839219	27.8621145007198	Primary exposure time	0.000000	3.1
Pointing Roll	26.338271	26.53905274606766			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-231.092463	-231.0932336816812			
SIM translation stage offset (mm)	-2.5	-2.499219321248518			
Observation start time	189100309.184000	189098309.35158			
Observation start date	2003-12-29T15:50:45	2003-12-29T15:18:29			
Observation end time	189140309.184000	189141204.06594			
Observation end date	2003-12-30T02:57:25	2003-12-30T03:13:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect





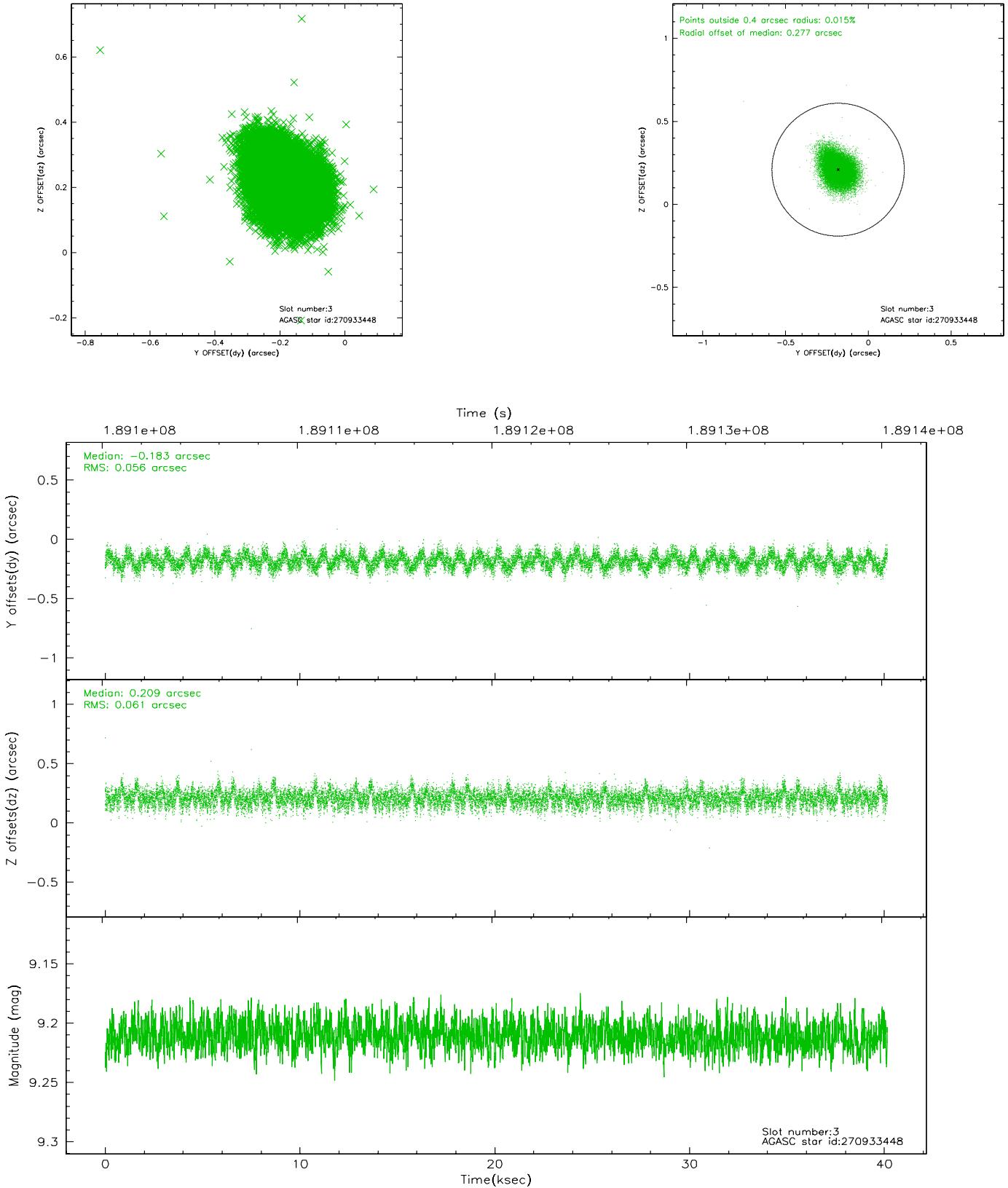
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	9796	0.009	0.027	0.014	0.034	0.000000	0.000000	932.59	-885.56
1	FID	ACIS-I-5	7.23	9798	-0.119	0.044	0.009	0.014	0.000000	0.000000	-1815.60	1011.99
2	FID	ACIS-I-6	7.25	9798	0.019	-0.001	0.012	0.038	0.000000	0.000000	398.17	1656.43
3	GUIDE	270933448	9.21	19590	-0.183	0.209	0.088	0.143	254.929117	27.410049	552.87	-1994.37
4	GUIDE	271452944	9.01	19589	0.093	-0.075	0.098	0.158	254.218451	28.321718	-20.65	1949.73
5	GUIDE	271453792	7.62	19593	0.020	-0.155	0.072	0.114	253.729889	28.137131	-1704.04	2048.86
6	GUIDE	270935240	8.15	19592	-0.021	0.010	0.062	0.098	254.043878	27.205763	-2311.13	-1397.41
7	GUIDE	271064712	9.44	19581	0.092	0.013	0.137	0.225	255.474964	27.513344	2283.44	-2424.79

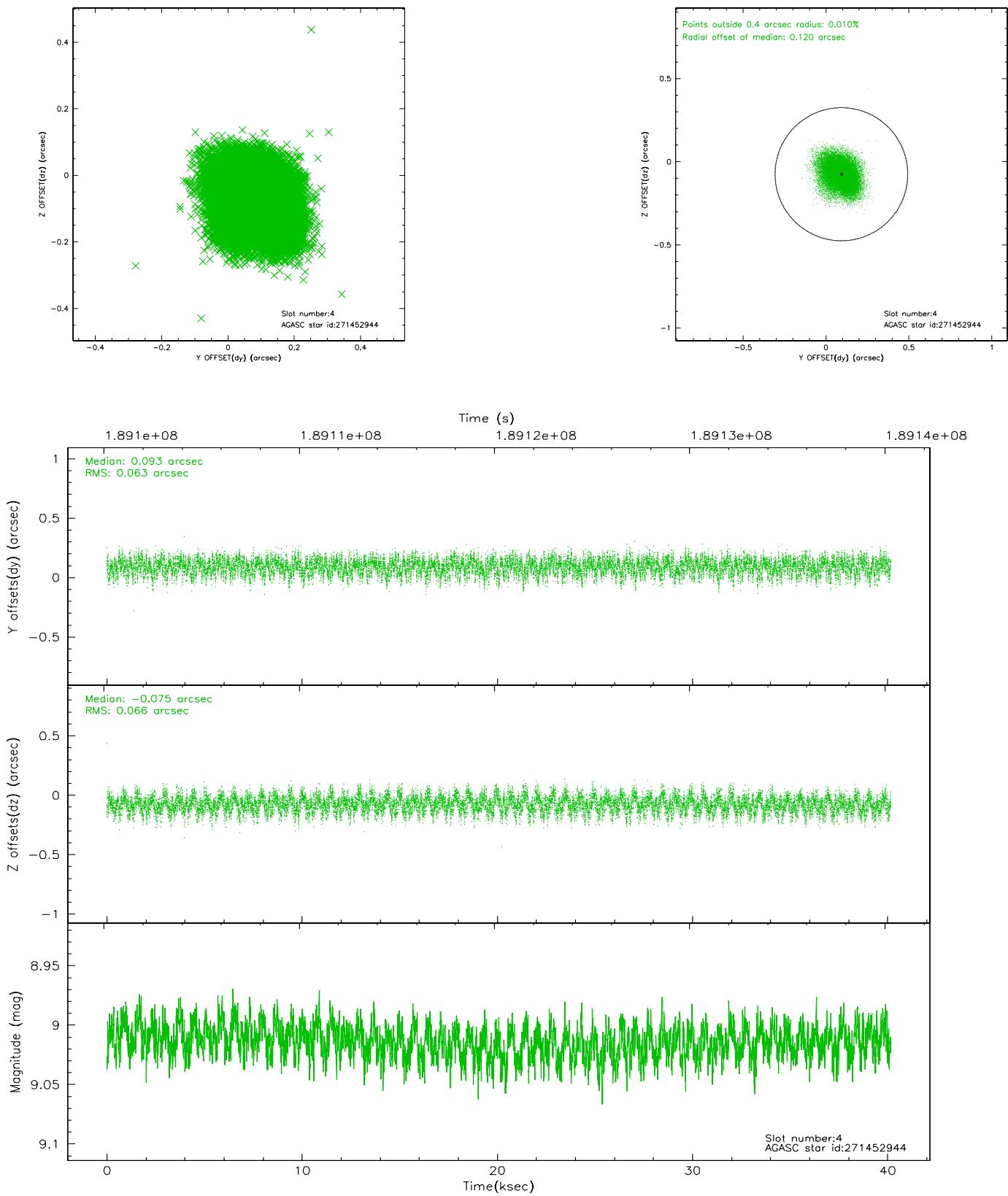
∞

## 2.4 Star Slots

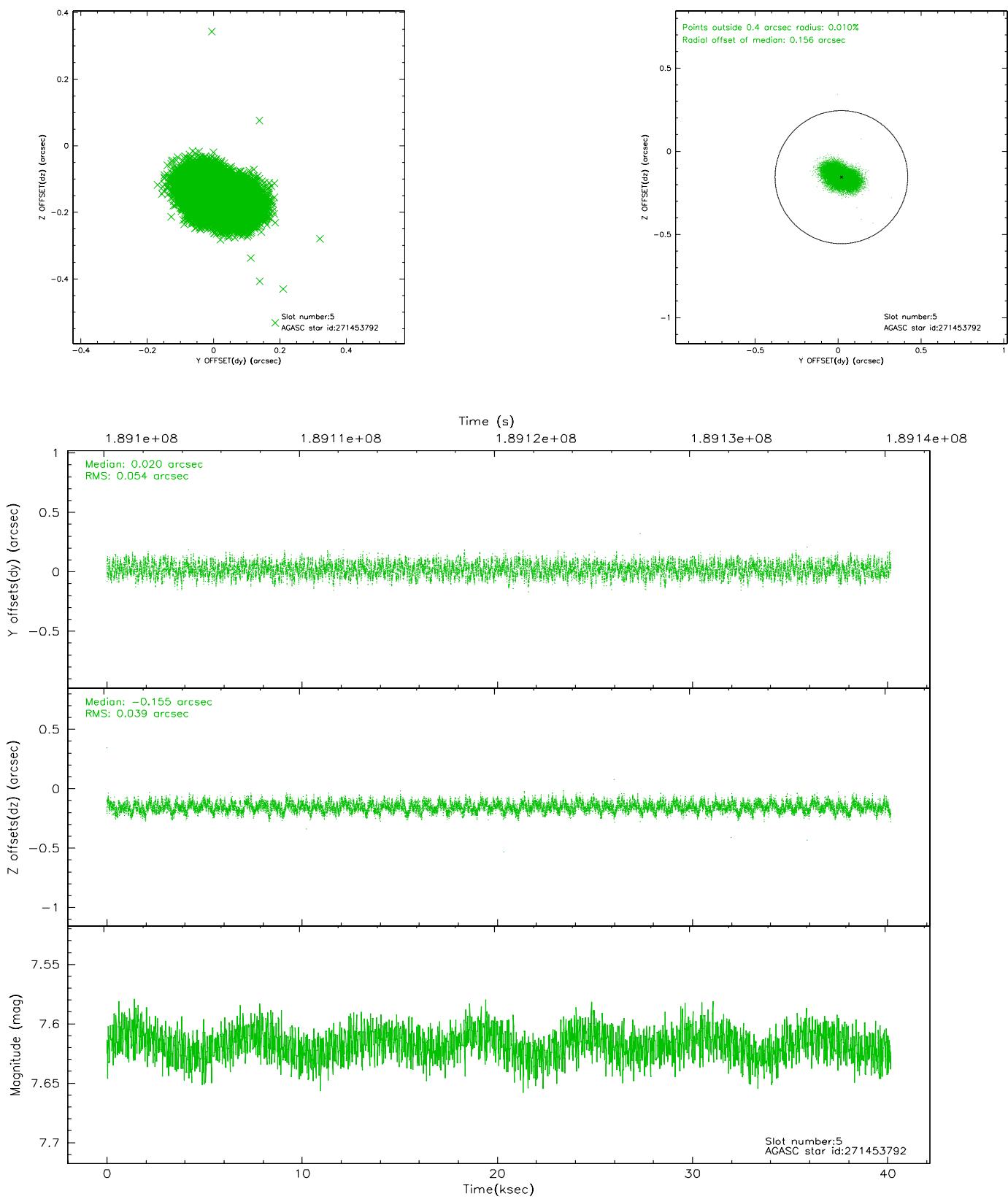
### 2.4.1 Slot 3



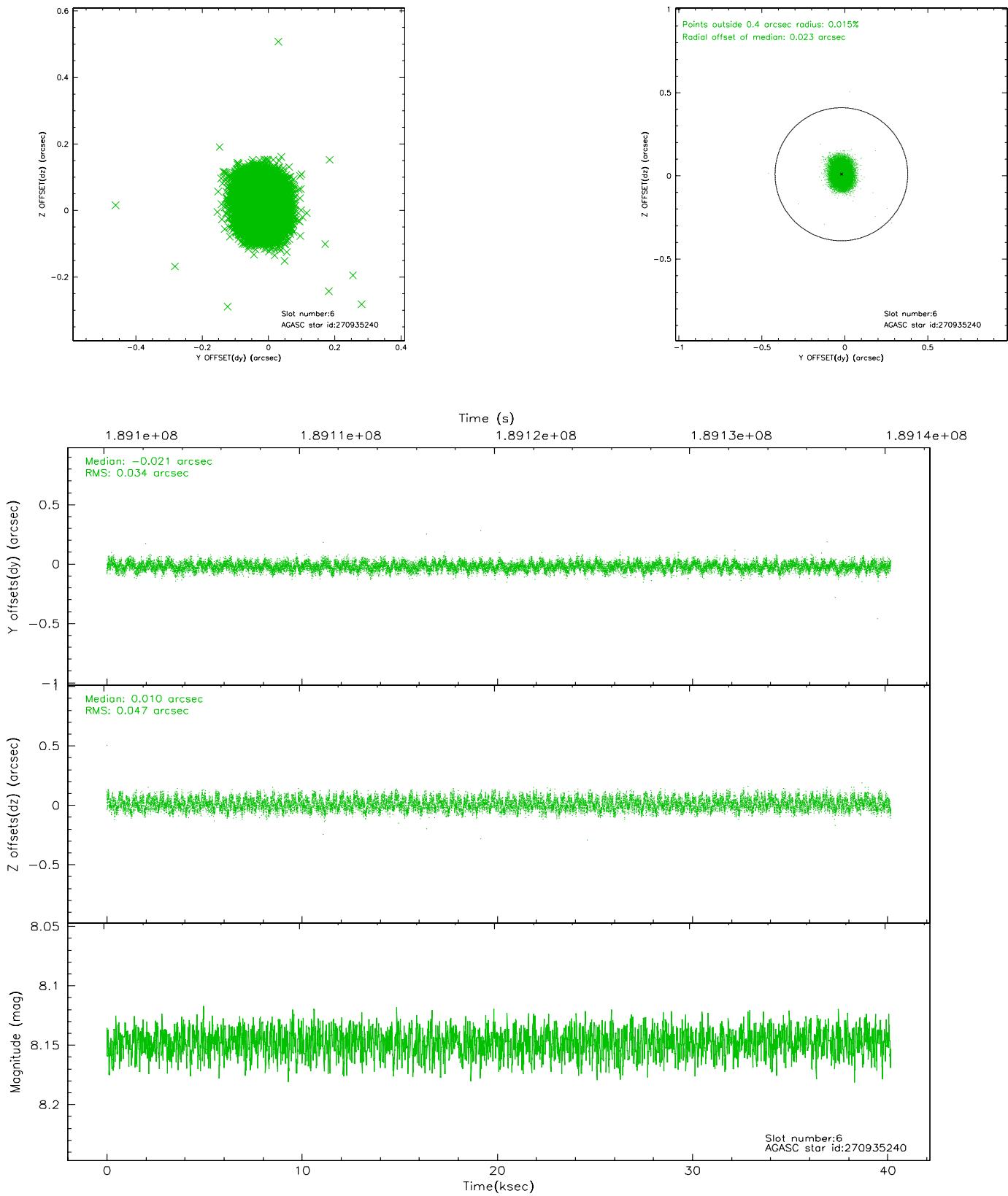
## 2.4.2 Slot 4



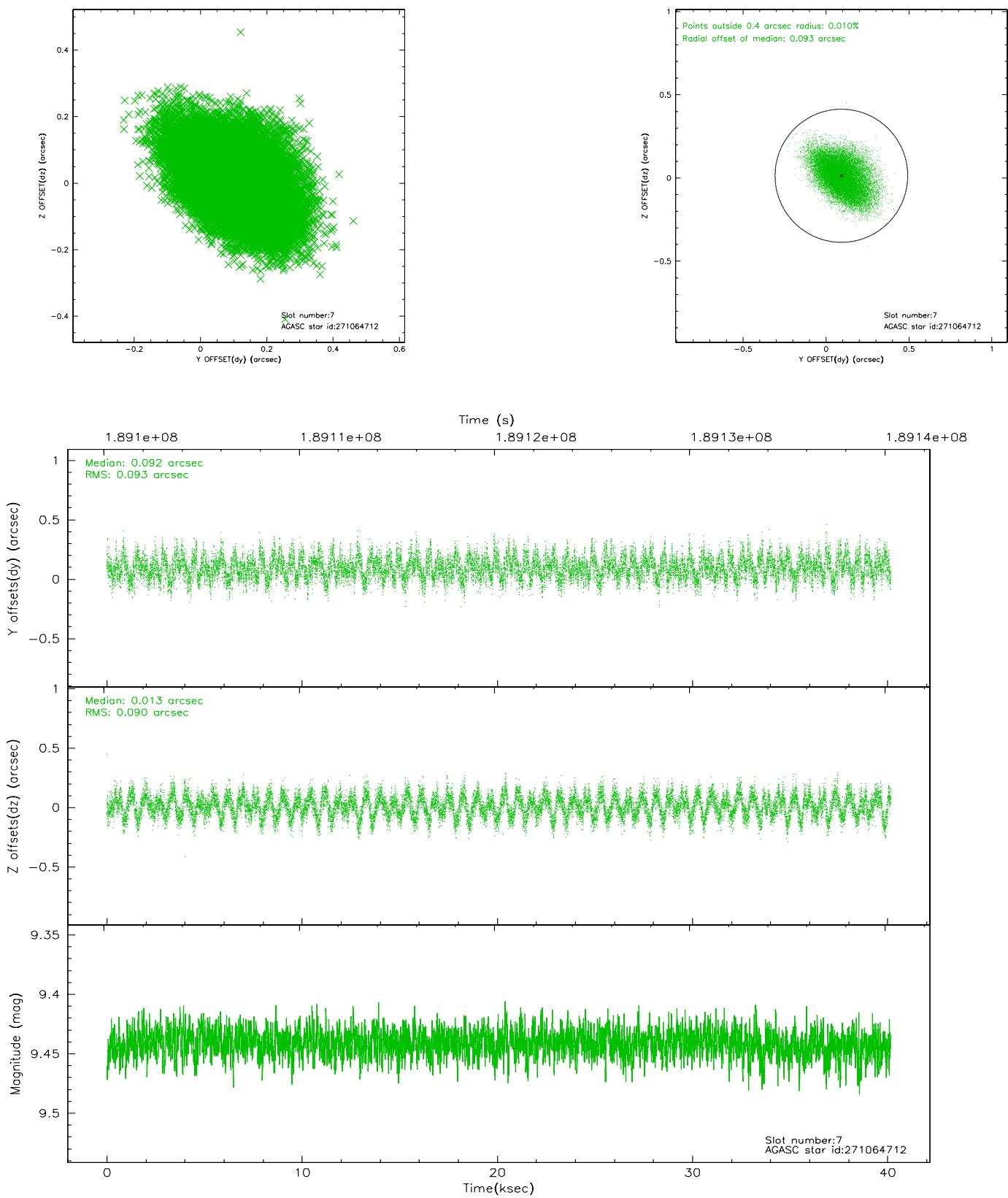
### 2.4.3 Slot 5



## 2.4.4 Slot 6

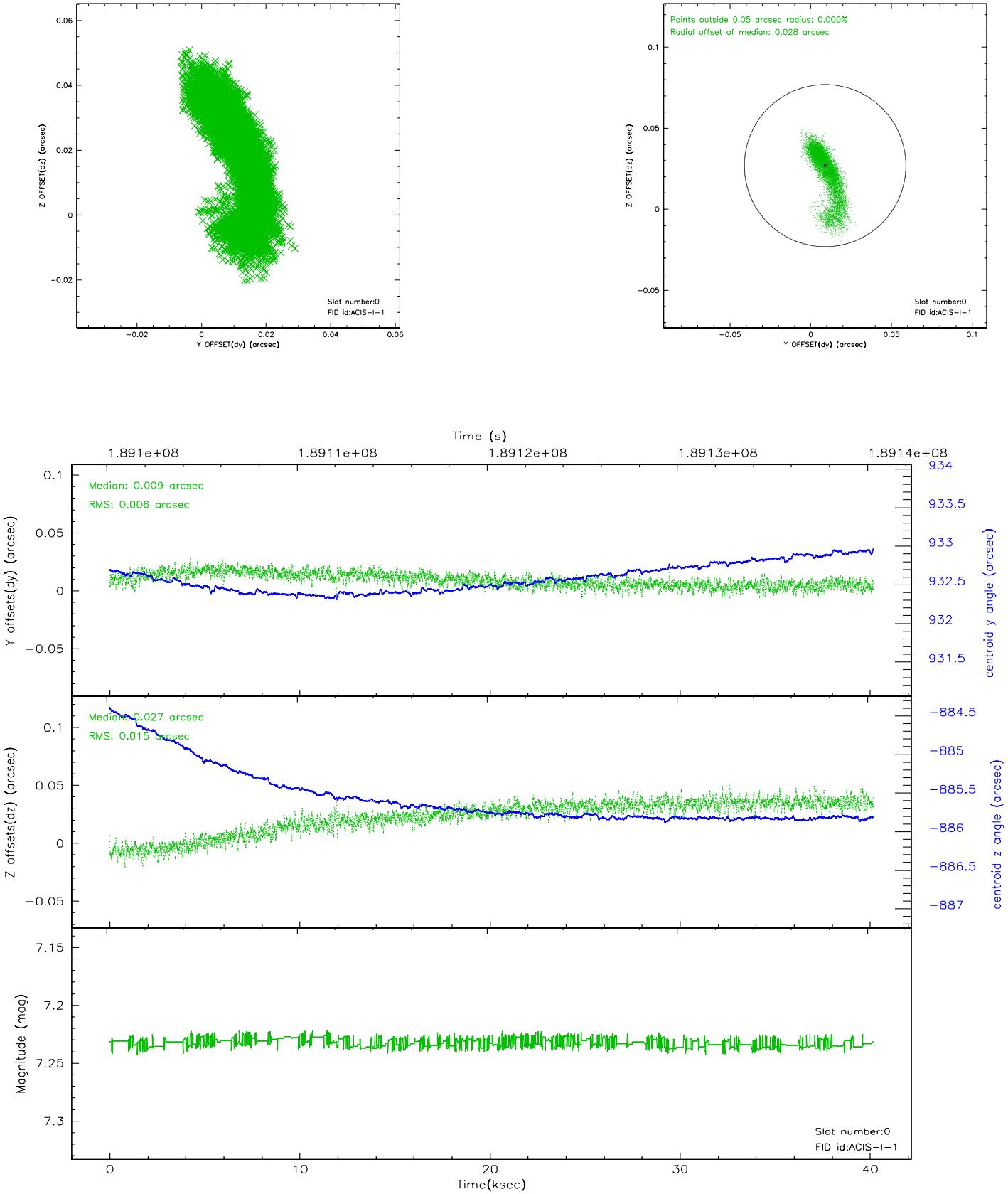


## 2.4.5 Slot 7

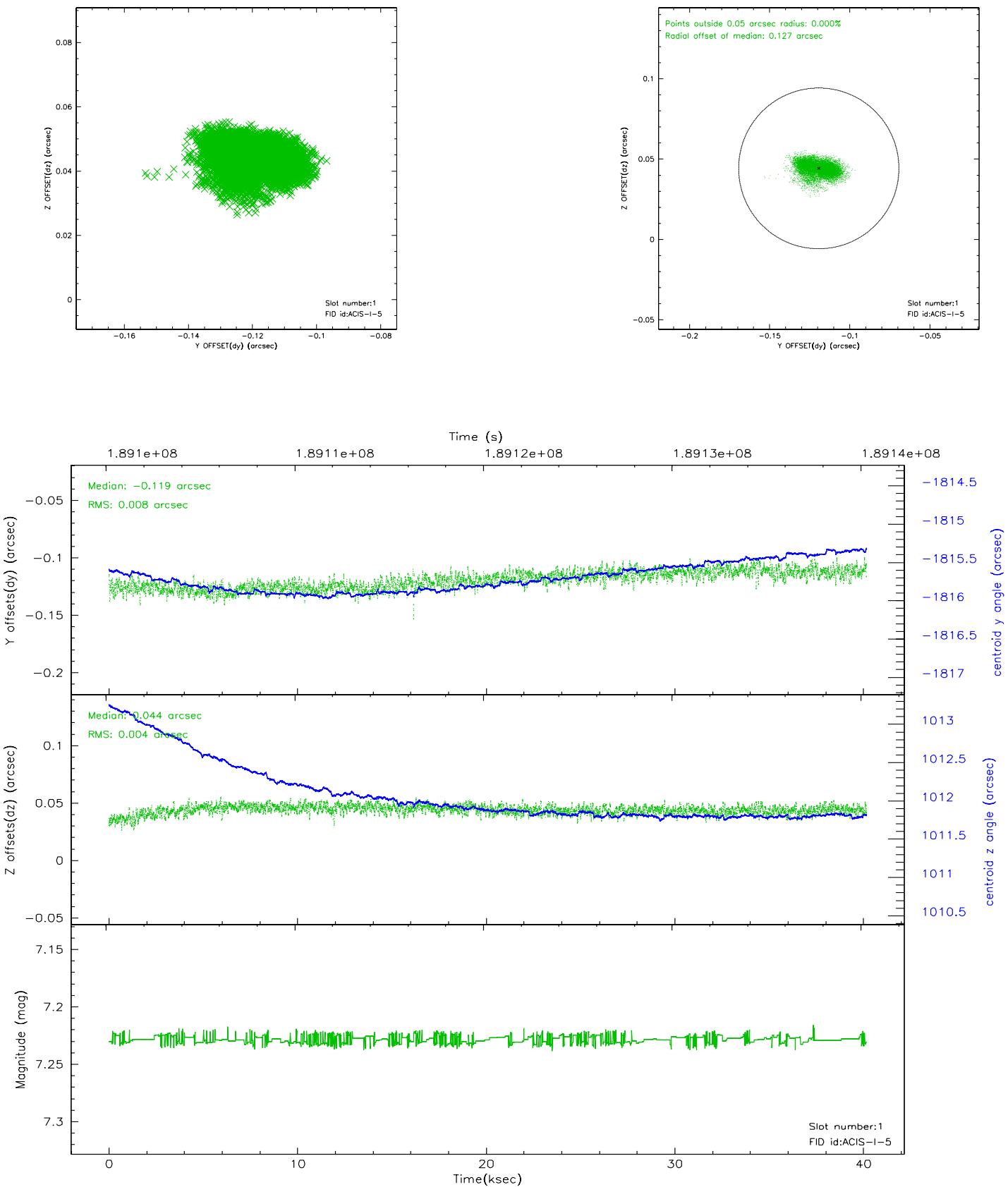


## 2.5 FID Slots

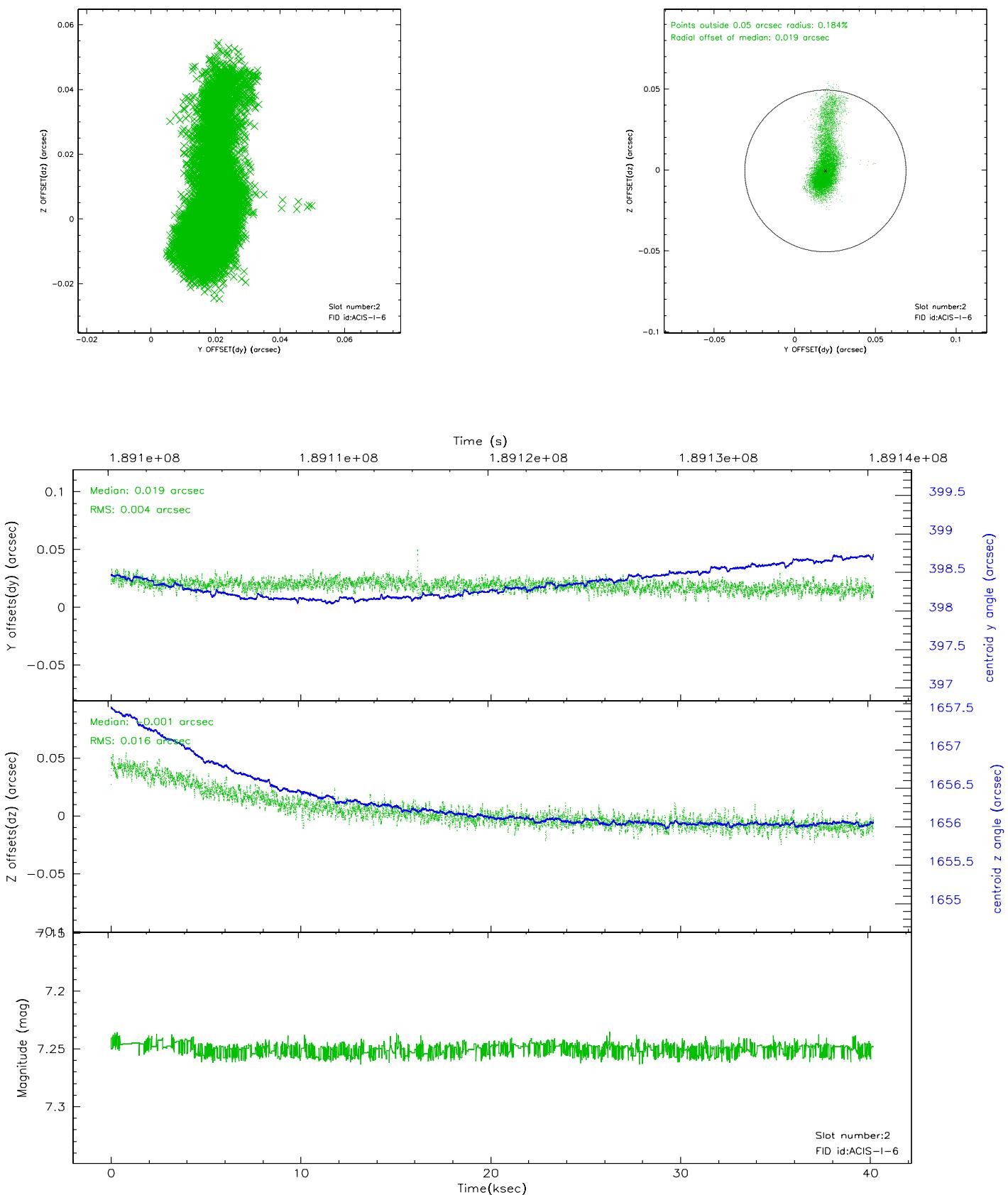
### 2.5.1 Slot 0



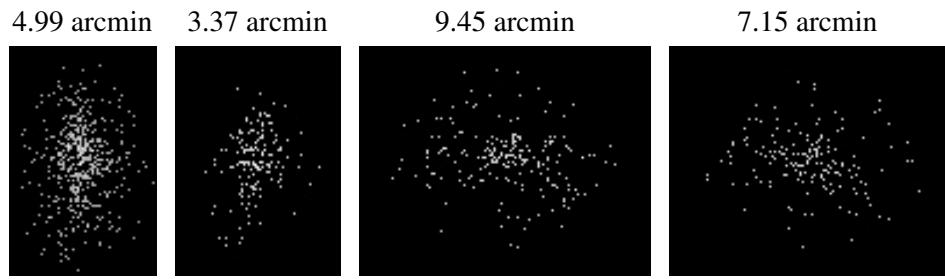
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.16

## A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.