

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 7180 - L2 Version 002  
Chandra X-Ray Center

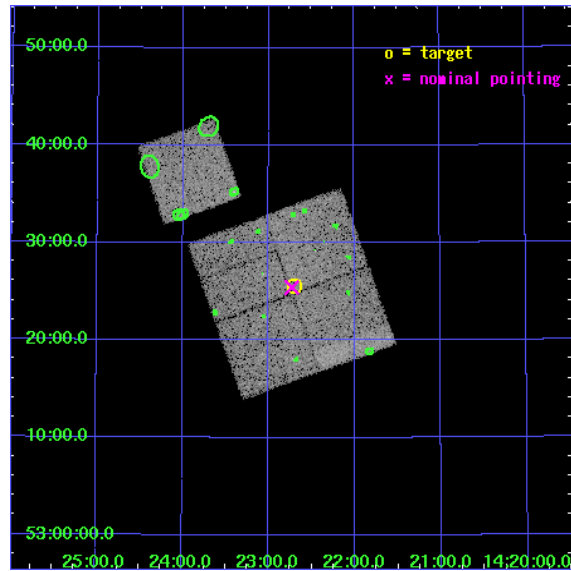
L2 Processing Date : Mar 31 2006

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# 1 Front

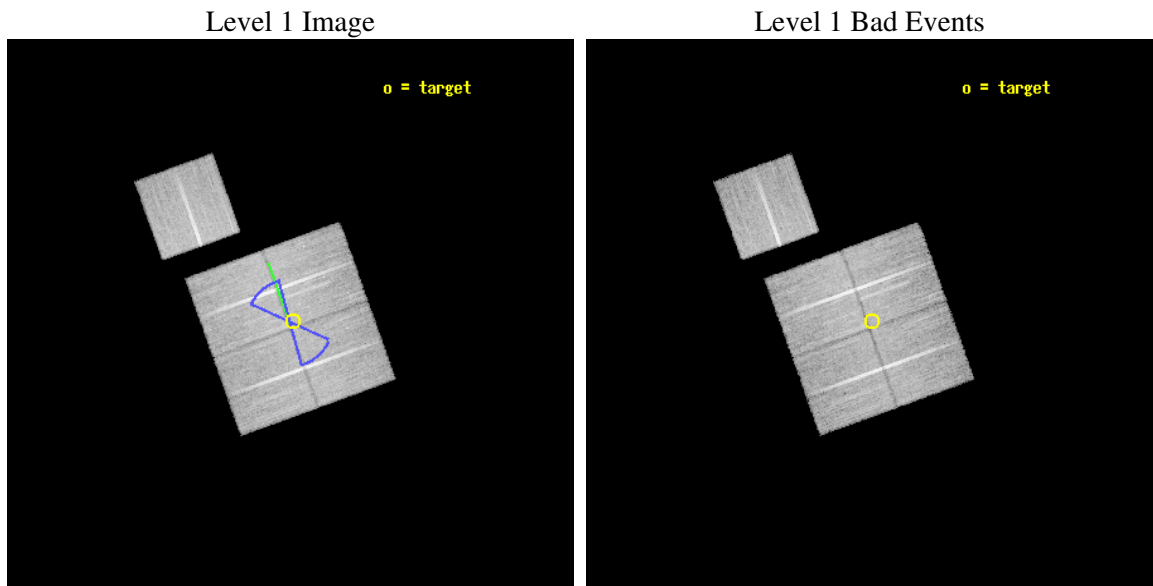
seq_num	900348
obs_id	7180
title	Deep Chandra Imaging of the Extended Groth Strip: The Co-evolution of Black Holes and Galaxies
observer	Professor Kirpal Nandra
object	EGS-1
dtcycle	0
cycle	P
ra_targ	215.676254
dec_targ	53.427086
ra_nom	215.68191190485
dec_nom	53.423939324655
roll_nom	340.20414137301
revision	2
ontime	20704.858940095
livetime	20434.334715347
ontime0	20707.999960184
ontime1	20707.999960184
ontime2	20707.999960184
ontime3	20704.858940095
ontime6	20707.999960184
l2events	65340



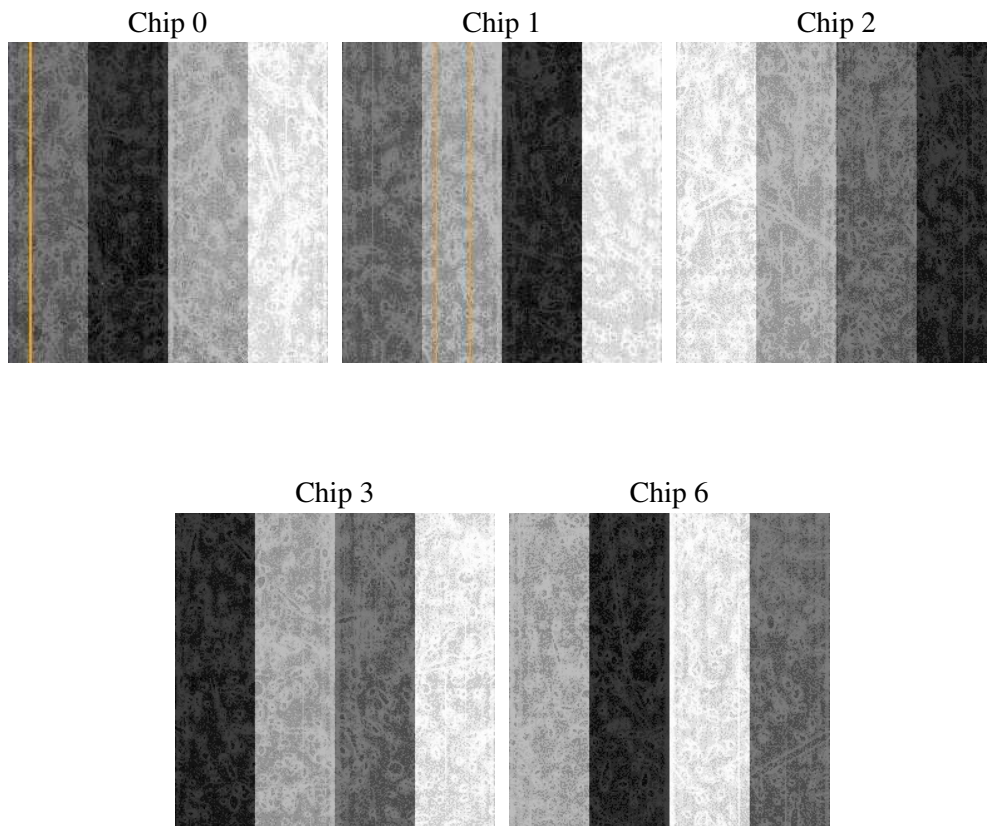
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-04-01T01:46:04
revision	2

sched_exp_time	20571.713000
ontime	21123.255452961
ontime0	21126.39647305
ontime1	21126.396492958
ontime2	21126.396492958
ontime3	21123.255452961
ontime6	21126.39647305
l1events	665099

### 2.1.4 Events

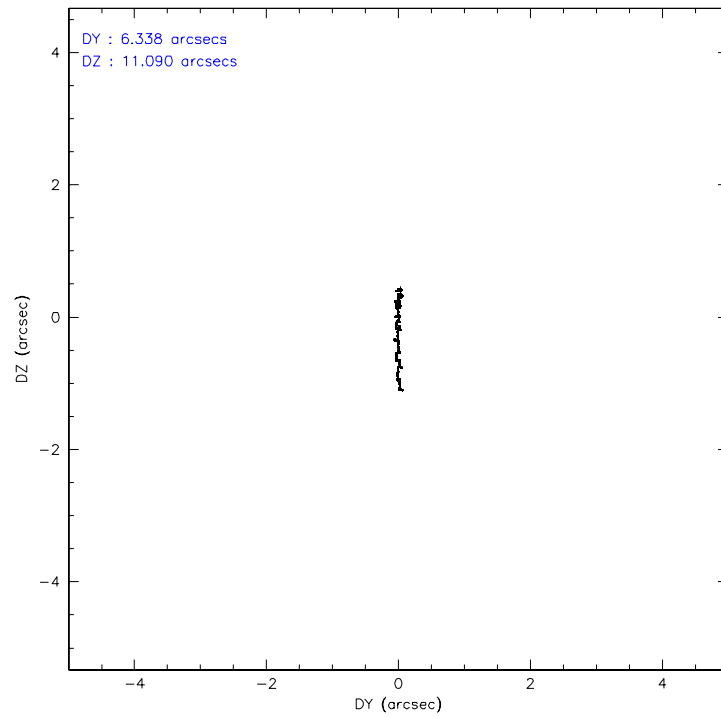
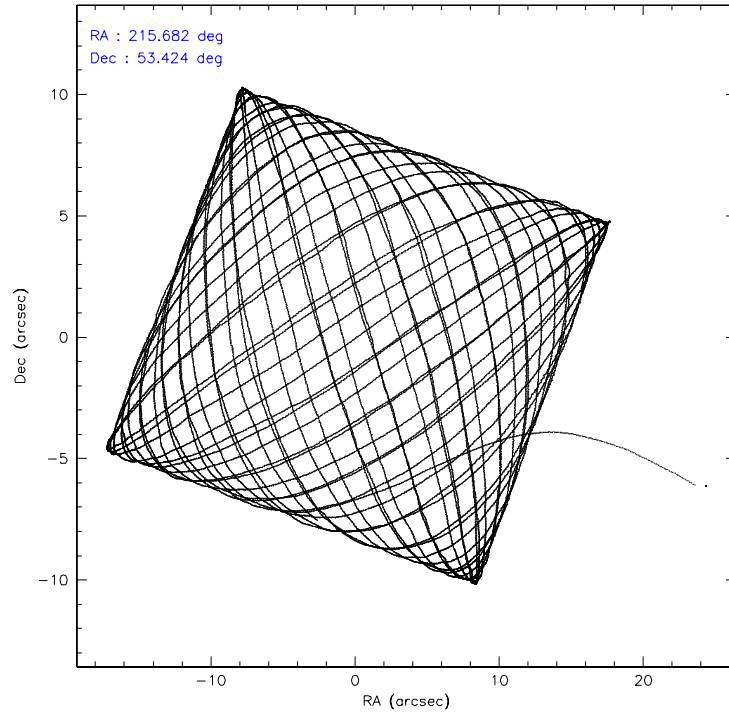
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	126663	126021	143186	134833	134396
rejected events	111751	108882	128744	120146	118865
rejected %	88%	86%	89%	89%	88%

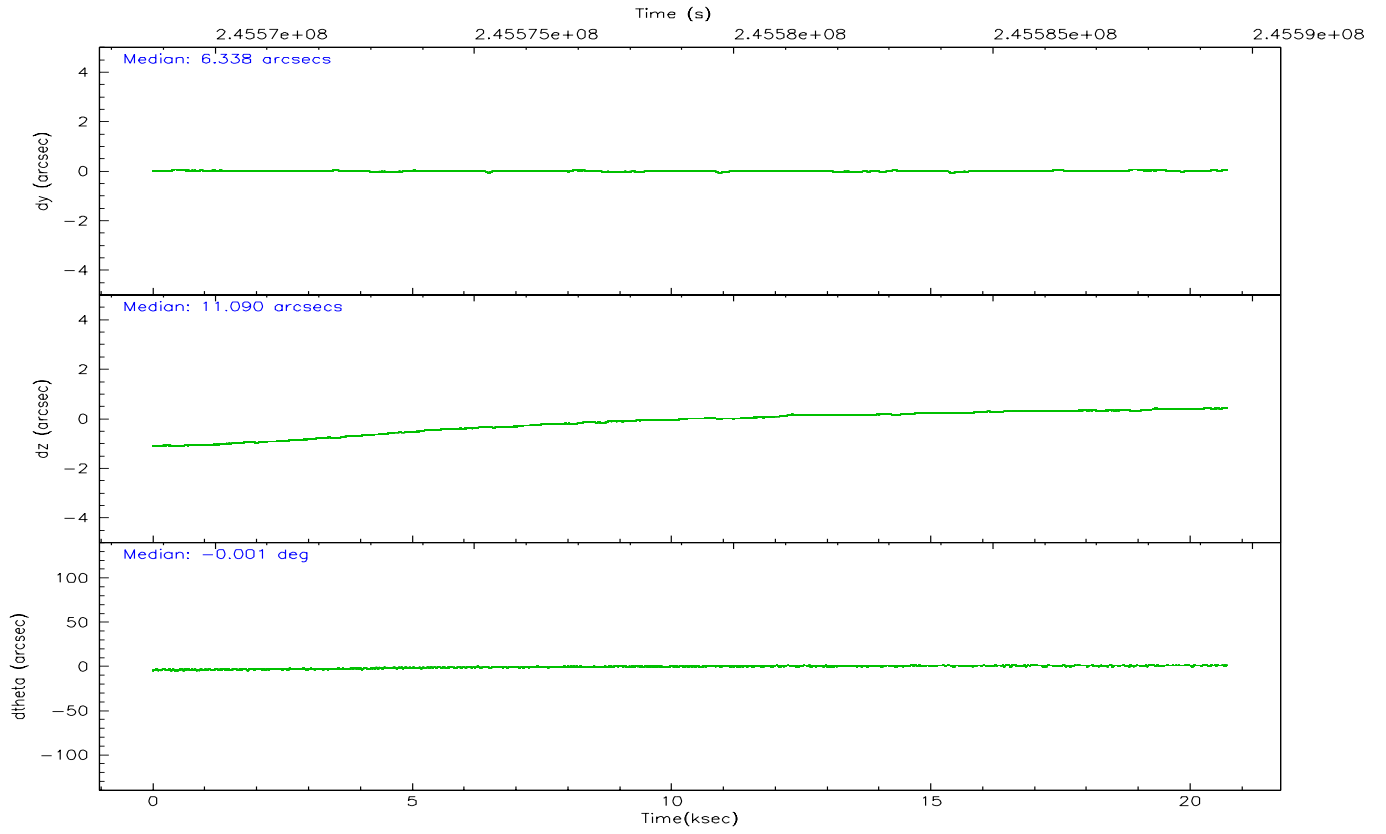
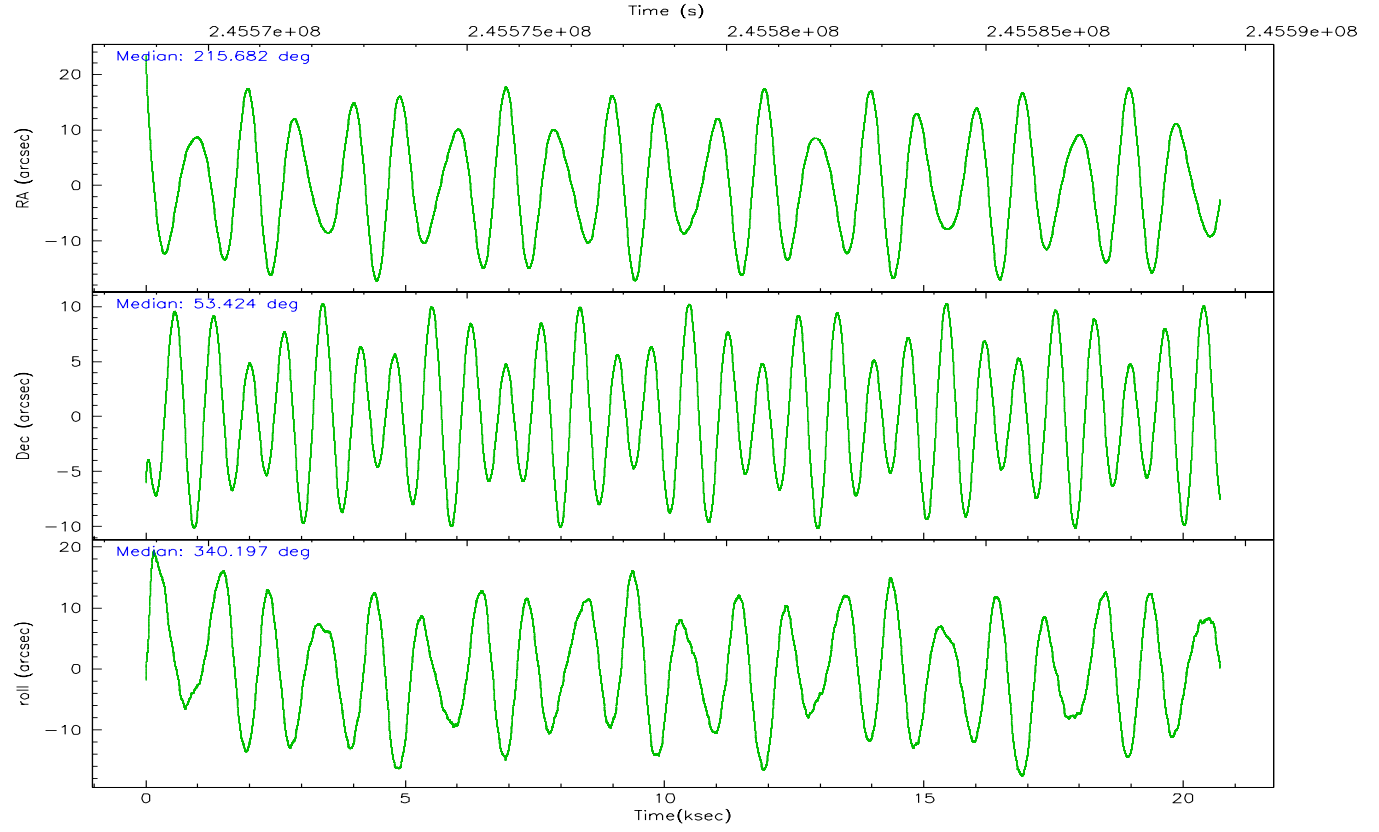
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5877	7320	5942	6066	6246
	4%	5%	4%	4%	4%
grade 1 events	70	68	79	87	52
	0%	0%	0%	0%	0%
grade 2 events	3461	3765	3273	2961	3283
	2%	2%	2%	2%	2%
grade 3 events	1619	1657	1526	1644	1605
	1%	1%	1%	1%	1%
grade 4 events	1564	1611	1484	1550	1619
	1%	1%	1%	1%	1%
grade 5 events	4512	5229	4520	5436	5438
	3%	4%	3%	4%	4%
grade 6 events	2642	3113	2478	2732	3049
	2%	2%	1%	2%	2%
grade 7 events	106918	103258	123884	114357	113104
	84%	81%	86%	84%	84%

## 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	215.636785	215.6819119048509	Alternating exposures requested	N	N
Pointing Dec	53.418971	53.42393932465532	Primary exposure time	0.000000	3.1
Pointing Roll	340.031691	340.2041413730083			
Roll angle	50.756000	50.756000			
Roll tolerance	25.000000	25.000000			
Roll constraint allows 180D rotation	Y	Y			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	245568944.184000	245567764.61008			
Observation start date	2005-10-13T05:34:40	2005-10-13T05:16:04			
Observation end time	245589515.184000	245589753.93609			
Observation end date	2005-10-13T11:17:31	2005-10-13T11:22:33			
Read mode	TIMED	TIMED			

## 2.3 Aspect





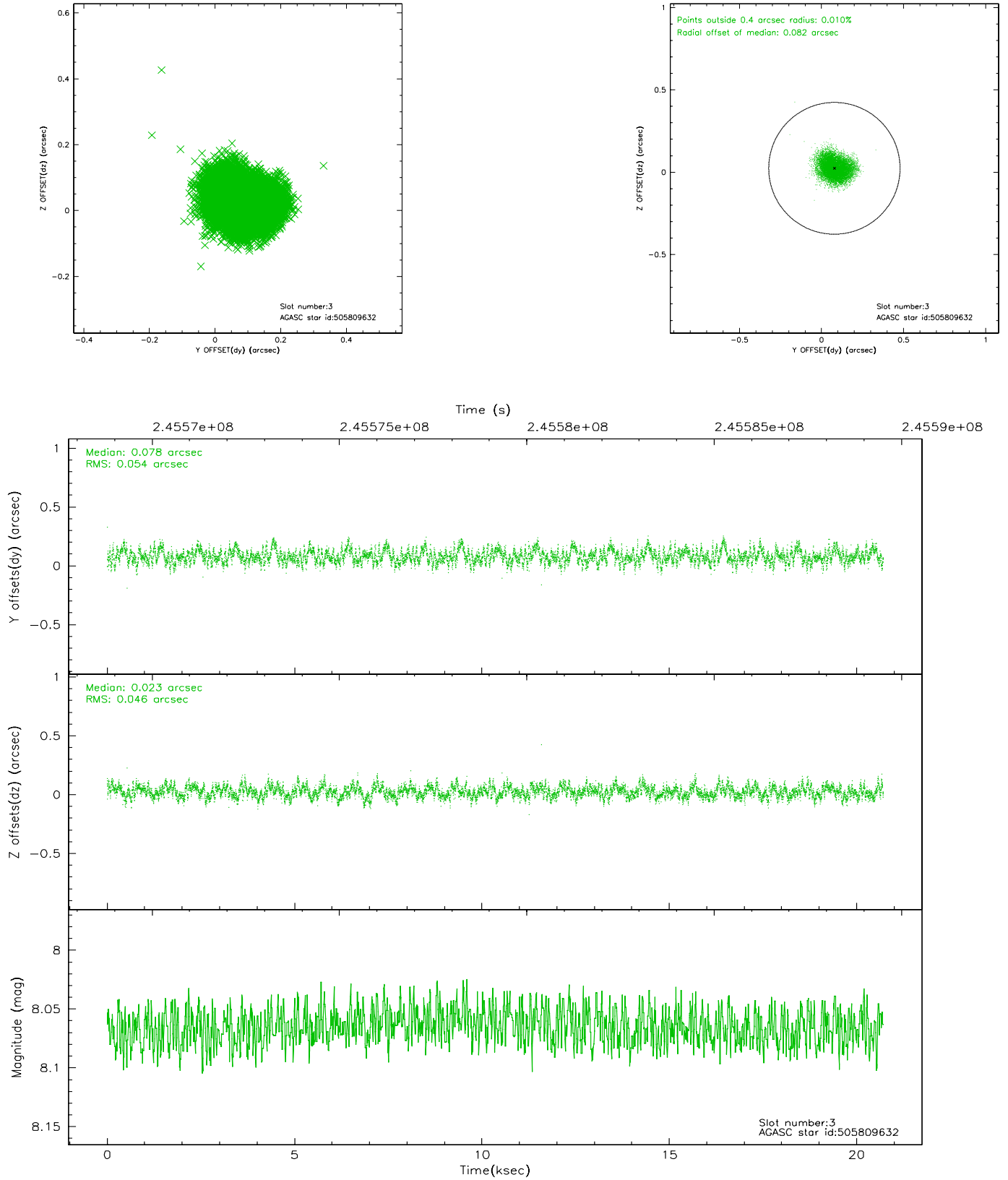
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	5053	0.021	0.001	0.012	0.038	0.000000	0.000000	933.36	-834.45
1	FID	ACIS-I-5	7.23	5053	-0.131	0.048	0.012	0.024	0.000000	0.000000	-1814.76	1063.05
2	FID	ACIS-I-6	7.26	5052	0.020	0.023	0.013	0.025	0.000000	0.000000	398.77	1707.68
3	GUIDE	505809632	8.07	10104	0.078	0.023	0.077	0.121	215.499426	53.521185	-401.70	245.68
4	GUIDE	505815928	8.34	10105	-0.064	0.149	0.062	0.098	216.234742	53.074559	1637.39	-718.25
5	GUIDE	505817176	8.25	10105	-0.049	-0.006	0.061	0.100	216.408138	53.717379	1174.57	1579.35
6	GUIDE	505815088	7.28	10106	-0.012	-0.027	0.058	0.092	216.315963	53.584954	1158.66	1063.84
7	GUIDE	505816088	10.42	10089	0.044	-0.142	0.197	0.338	216.276680	52.548591	2385.46	-2460.57

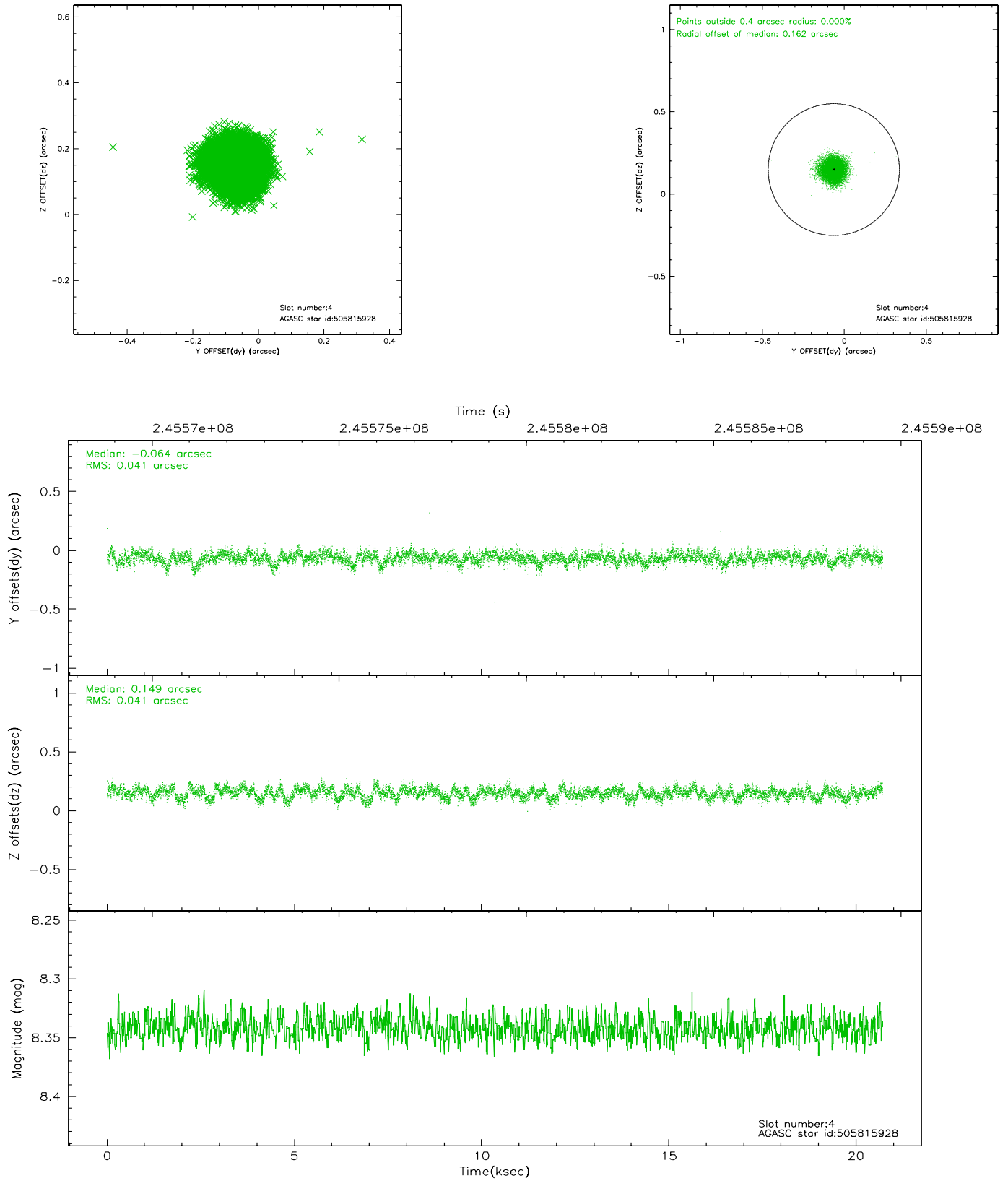


## 2.4 Star Slots

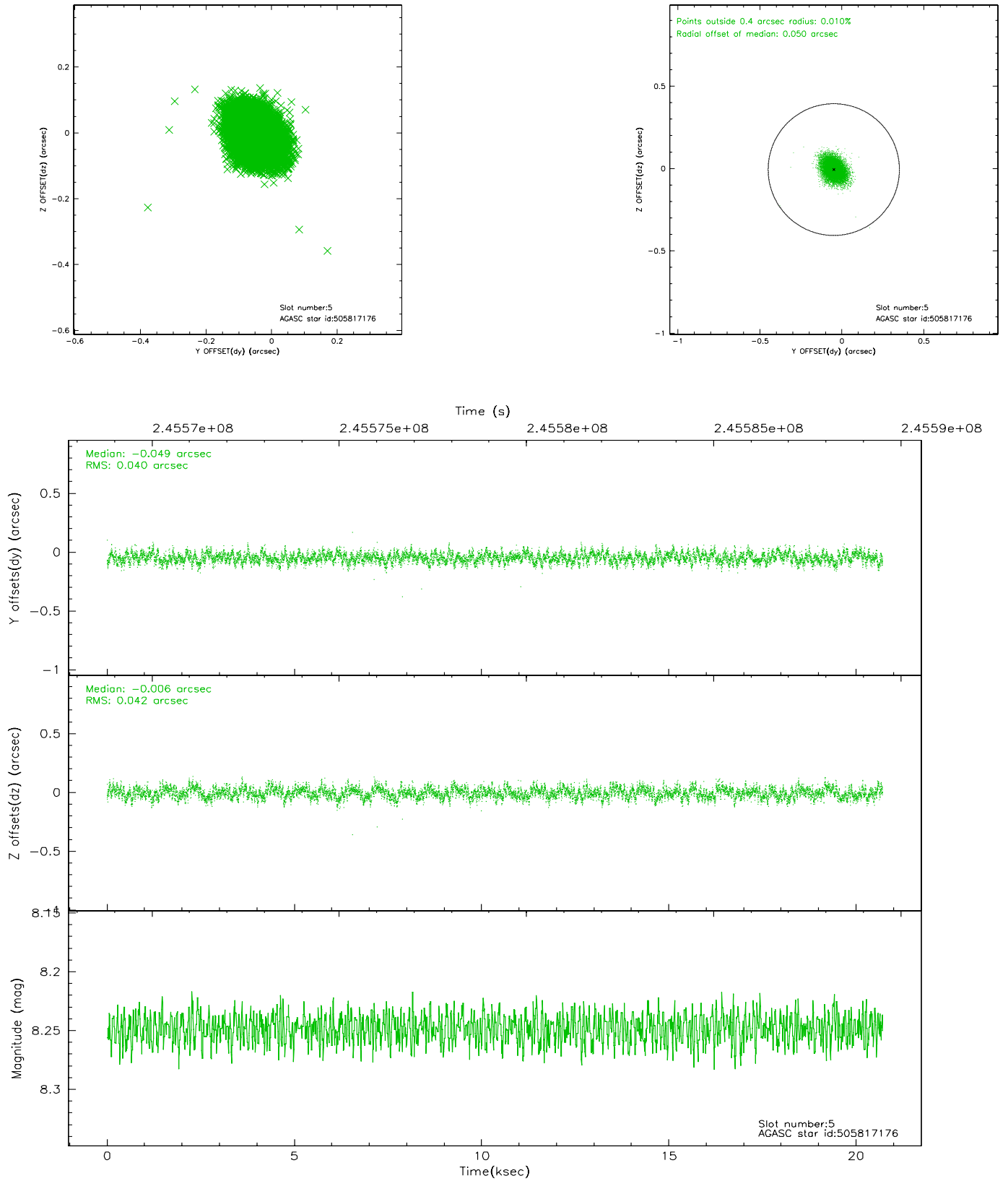
### 2.4.1 Slot 3



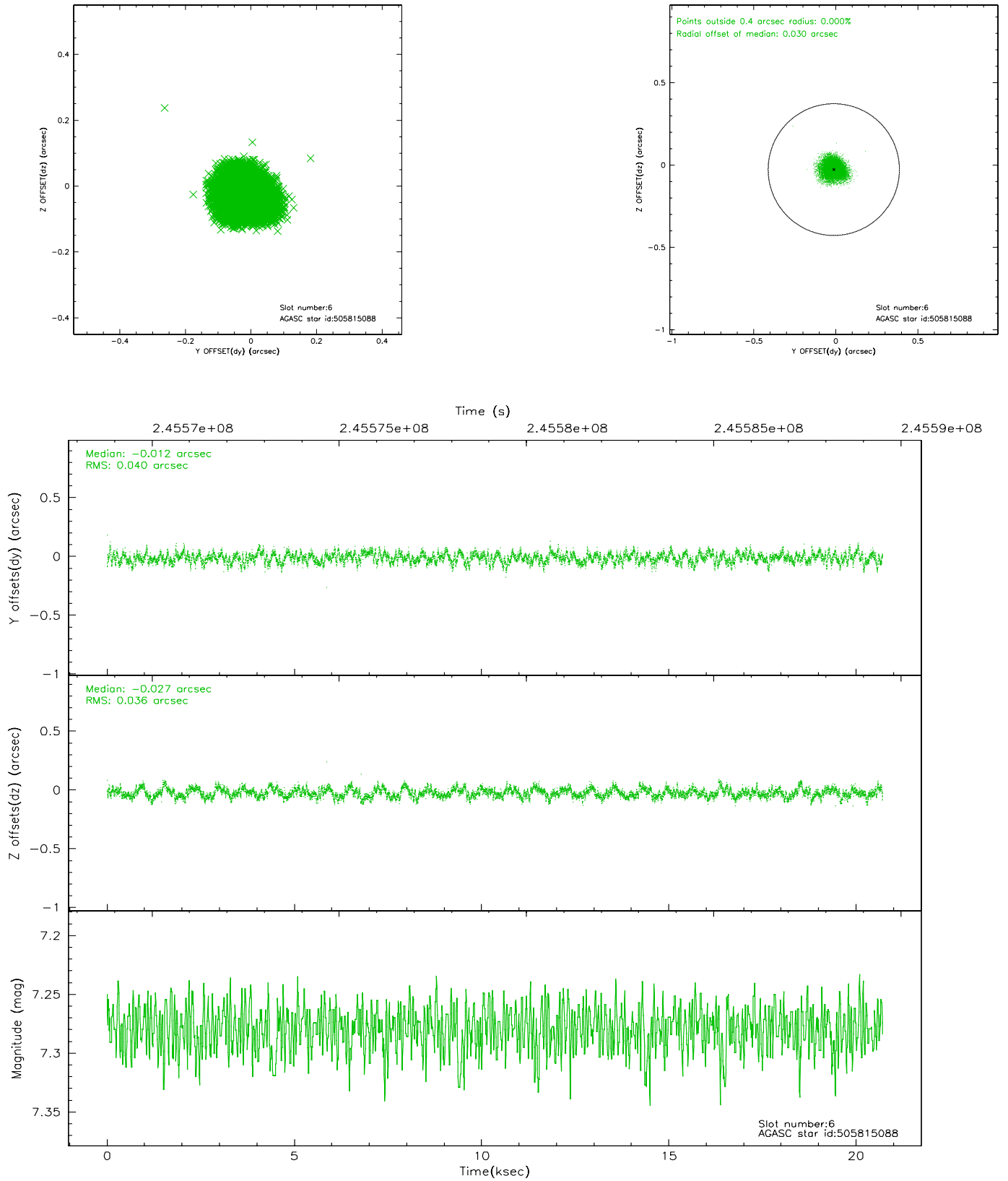
## 2.4.2 Slot 4



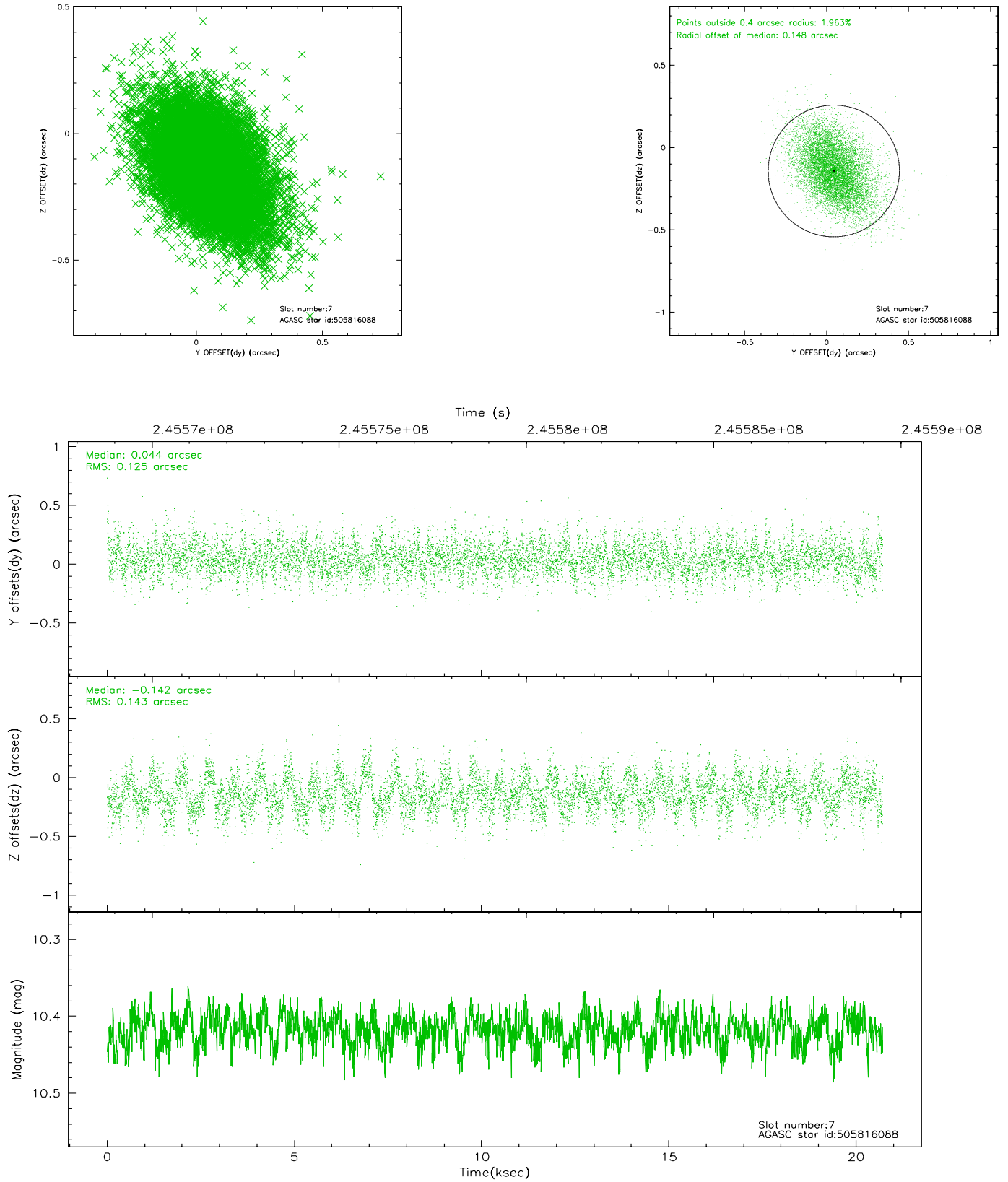
### 2.4.3 Slot 5



## 2.4.4 Slot 6

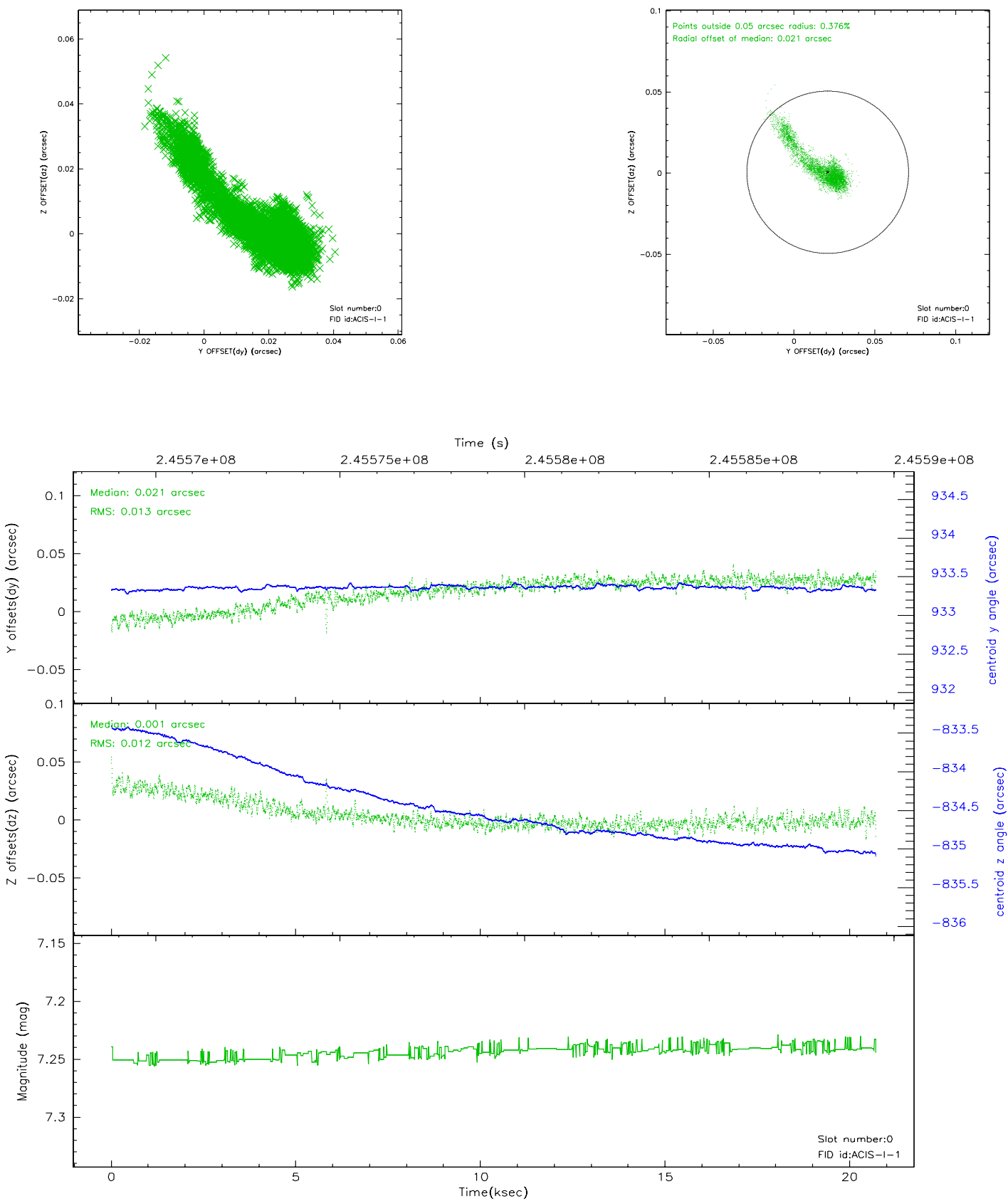


## 2.4.5 Slot 7

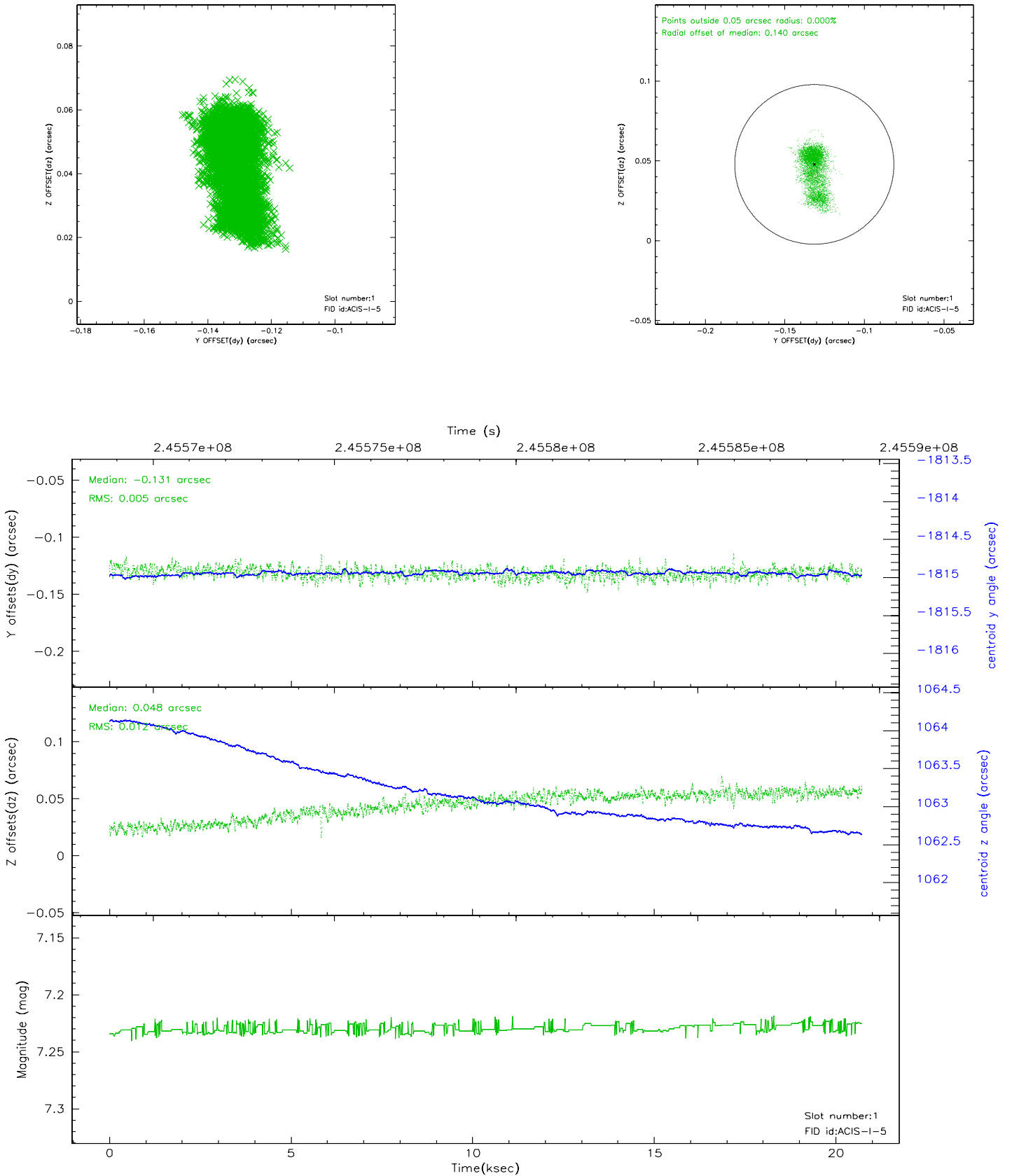


## 2.5 FID Slots

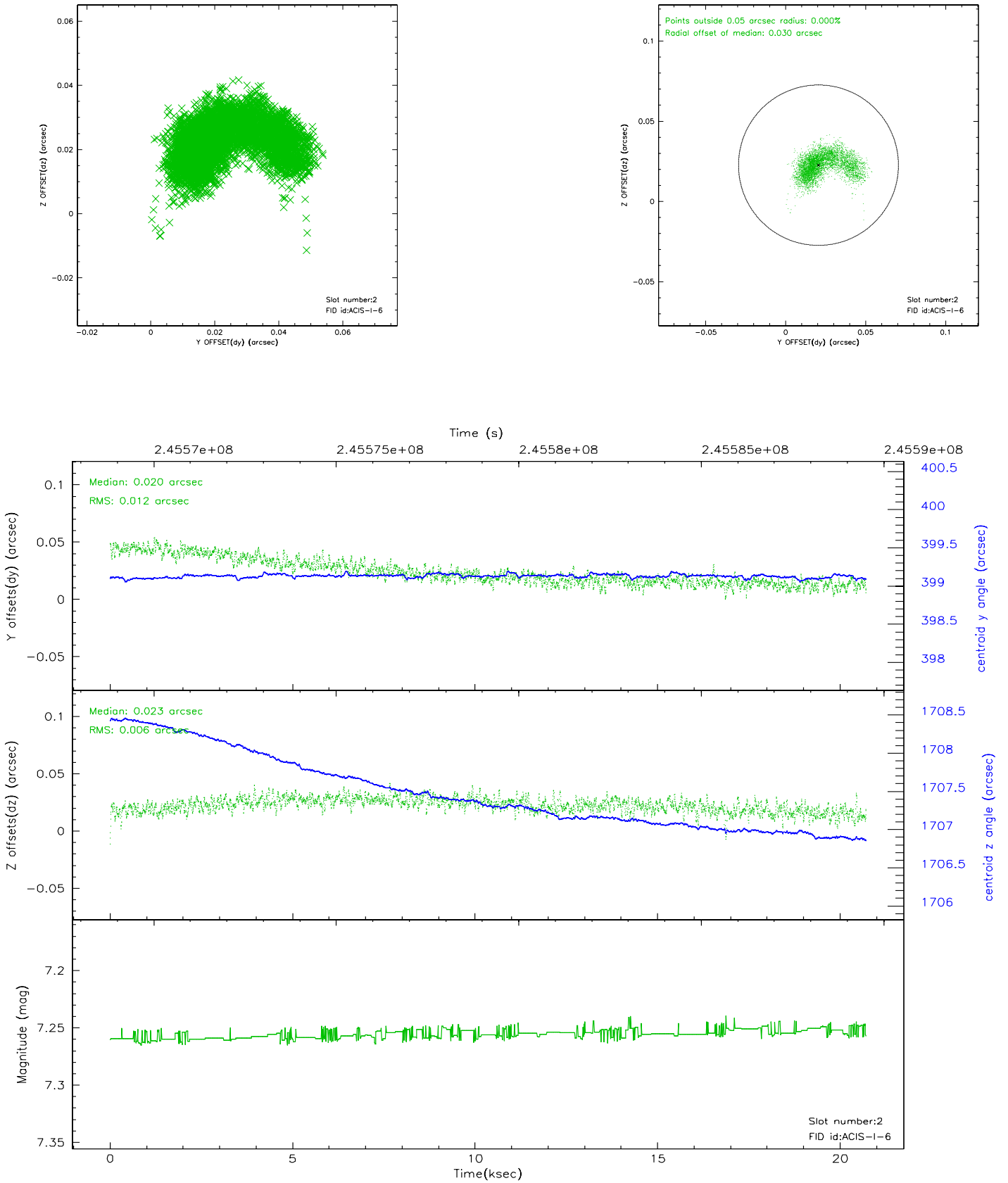
### 2.5.1 Slot 0



## 2.5.2 Slot 1

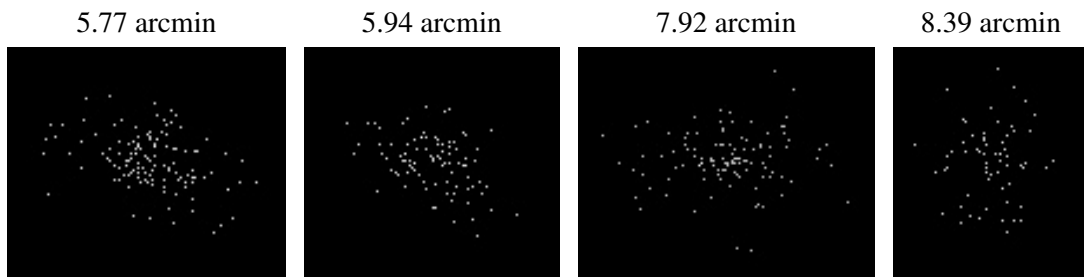


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.04.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.70485

### A.2 Comments

Roll constraint satisfied.