

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3331 - L2 Version 001  
Chandra X-Ray Center

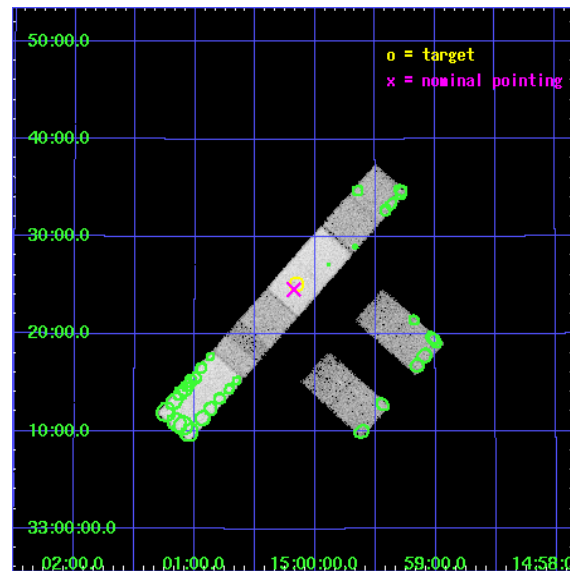
L2 Processing Date : Oct 5 2006

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

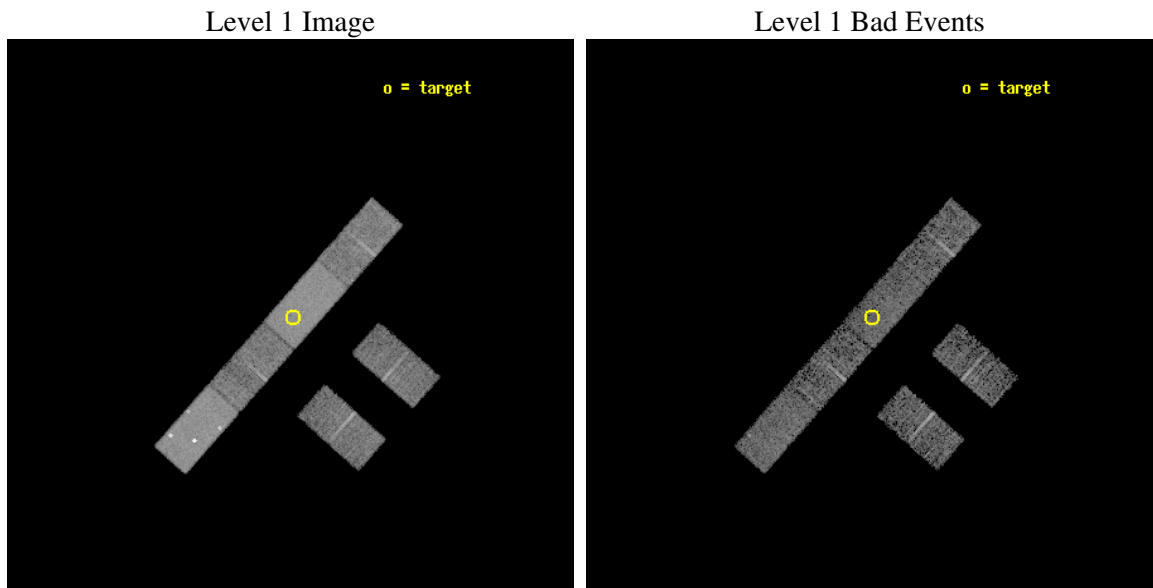
seq_num	900170
obs_id	3331
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?
observer	Professor Kirpal Nandra
object	AX J1500.1+3325
dtcycle	0
cycle	P
ra_targ	225.038333
dec_targ	33.418333
ra_nom	225.04440675067
dec_nom	33.409966752947
roll_nom	311.50648491911
revision	2
ontime	5405.4000357985
livetime	5284.9042195919
ontime2	5405.4000357985
ontime3	5405.4000357985
ontime5	5405.4000357985
ontime6	5405.4000357985
ontime7	5405.4000357985
ontime8	5405.4000357985
l2events	103231



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images

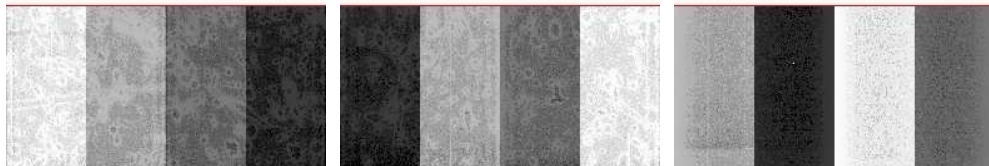


#### 2.1.2 Bias

Chip 2

Chip 3

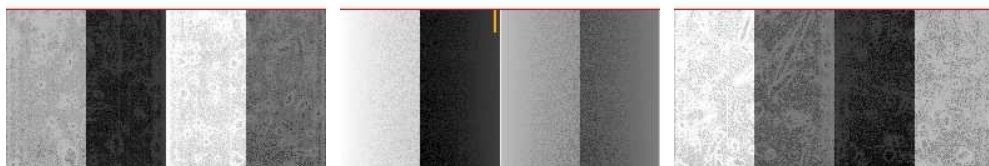
Chip 5



Chip 6

Chip 7

Chip 8



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldsver	3.2.3
date	2006-10-05T18:46:30
revision	2

sched_exp_time	5000.000000
ontime	5407.0669340491
ontime2	5407.0669340491
ontime3	5407.0669340491
ontime5	5407.0669340491
ontime6	5407.0669340491
ontime7	5407.0669340491
ontime8	5407.0669340491
l1events	217659

### 2.1.4 Events

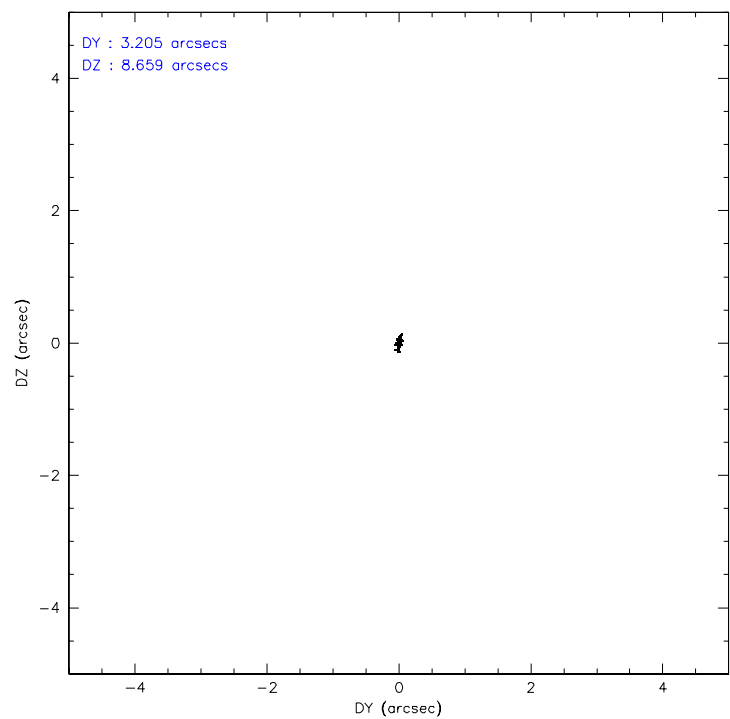
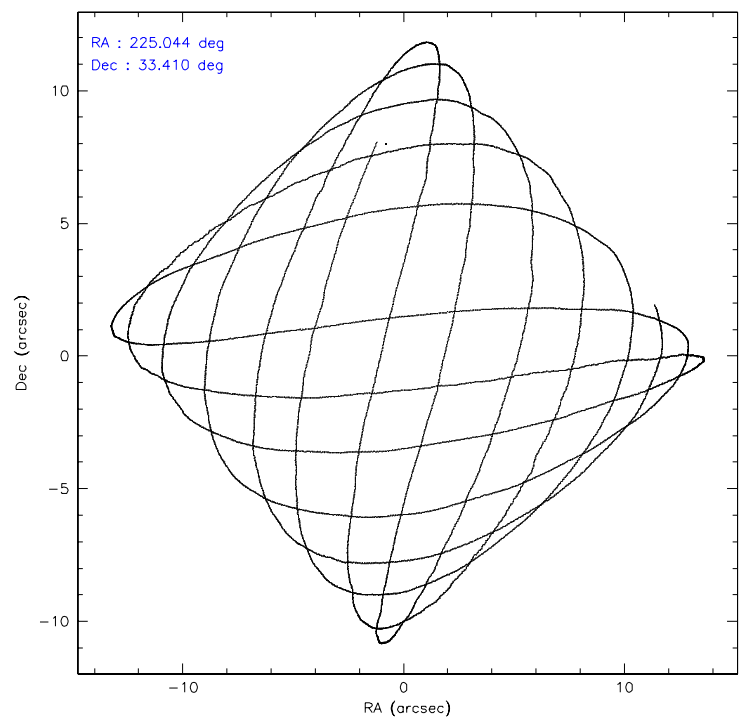
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	25698	24606	56148	28676	49386	33145
rejected events	16991	15816	18307	16815	16779	18307
rejected %	66%	64%	32%	58%	33%	55%

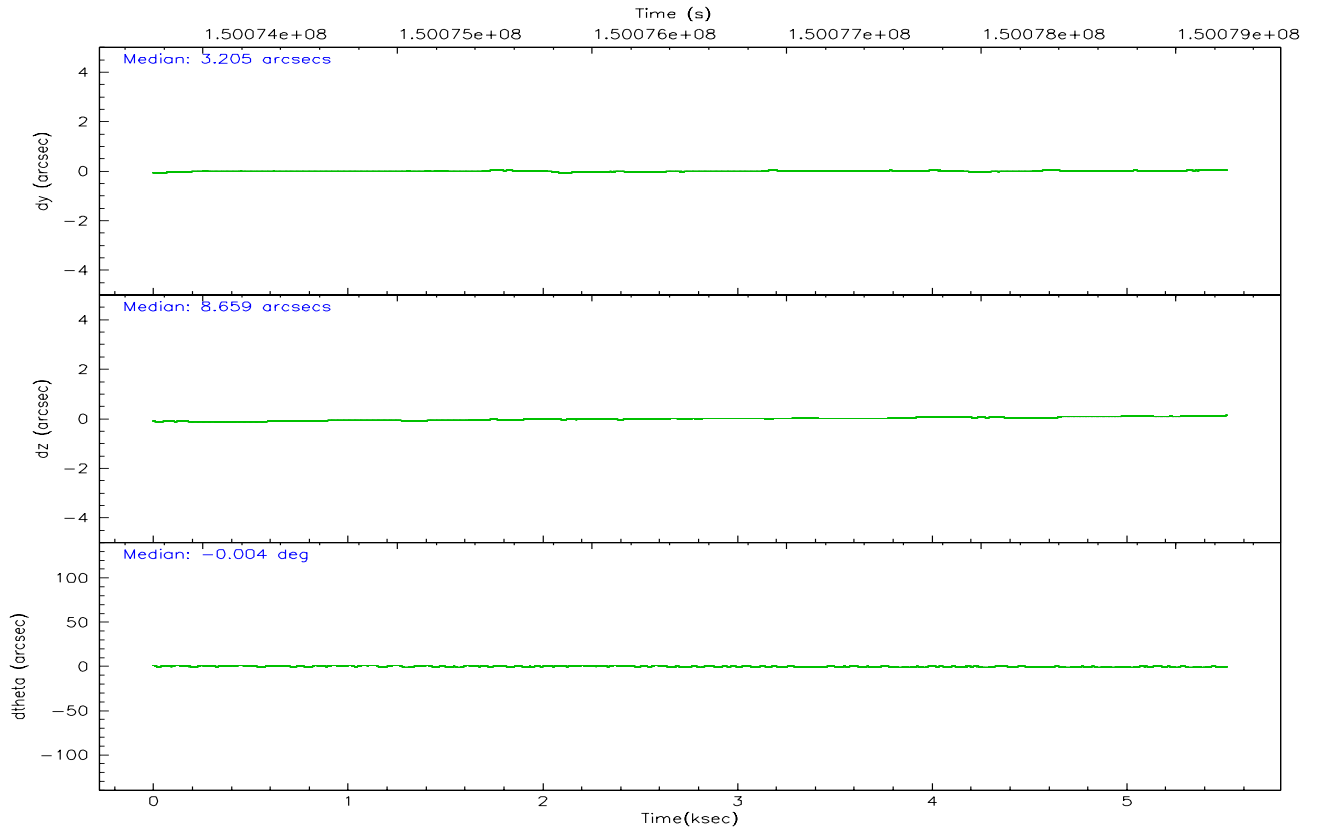
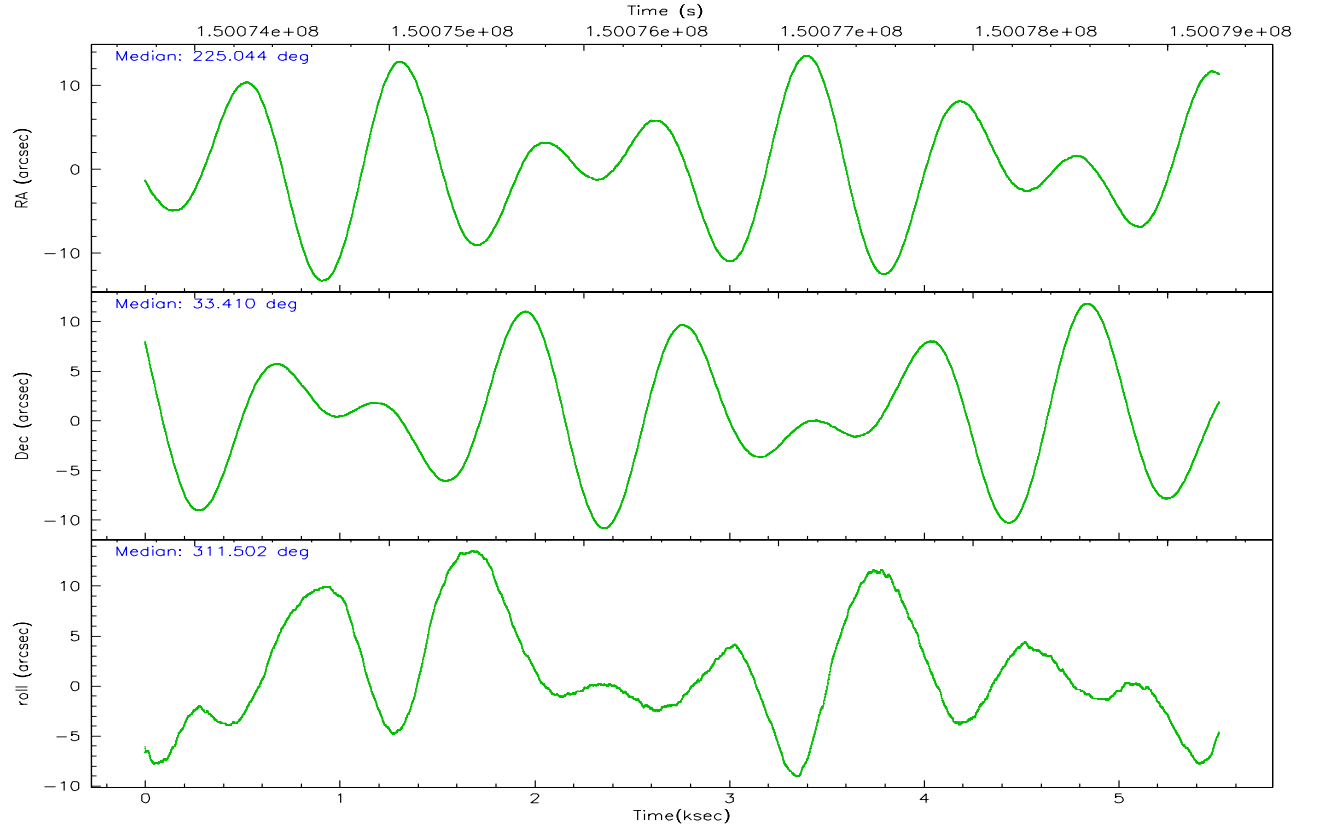
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	5860	5818	7472	7672	2855	9287
	22%	23%	13%	26%	5%	28%
grade 1 events	18	16	31	14	12	40
	0%	0%	0%	0%	0%	0%
grade 2 events	1473	1661	11165	2628	6706	2834
	5%	6%	19%	9%	13%	8%
grade 3 events	299	359	1304	402	1901	638
	1%	1%	2%	1%	3%	1%
grade 4 events	344	343	1175	402	1877	596
	1%	1%	2%	1%	3%	1%
grade 5 events	706	706	1681	769	1807	934
	2%	2%	2%	2%	3%	2%
grade 6 events	737	612	16734	765	19275	1487
	2%	2%	29%	2%	39%	4%
grade 7 events	16261	15091	16586	16024	14953	17329
	63%	61%	29%	55%	30%	52%

## 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	225.013289	225.0444067506663	Subarray requested	1/2	1/2
Pointing Dec	33.418364	33.40996675294704	Subarray start row	0	257
Pointing Roll	311.367010	311.5064849191076	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	150074260.184000	150073133.68459			
Observation start date	2002-10-03T23:16:36	2002-10-03T22:58:53			
Observation end time	150079260.184000	150079741.34736			
Observation end date	2002-10-04T00:39:56	2002-10-04T00:49:01			
Read mode	TIMED	TIMED			

## 2.3 Aspect





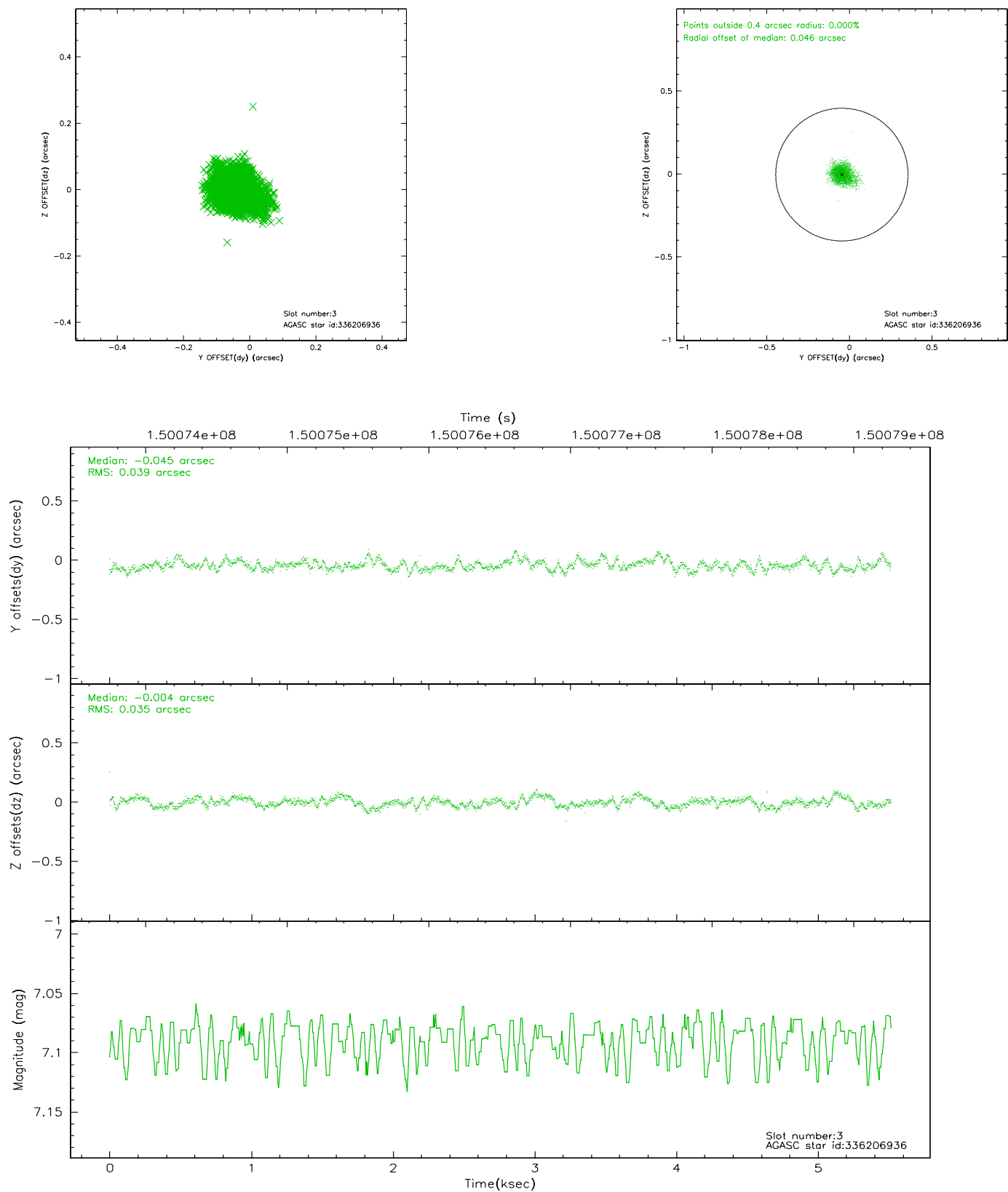
### Slot Statistics

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	1346	-0.004	0.012	0.007	0.011	0.000000	0.000000	-755.86	-1729.80
1	FID	ACIS-S-4	7.20	1346	-0.036	-0.002	0.005	0.008	0.000000	0.000000	2156.90	177.54
2	FID	ACIS-S-5	7.24	1346	0.009	-0.002	0.006	0.010	0.000000	0.000000	-1807.28	172.46
3	GUIDE	336206936	7.09	2693	-0.045	-0.004	0.055	0.092	225.621927	33.274357	1595.51	1035.83
4	GUIDE	336205600	8.43	2693	0.008	-0.000	0.050	0.083	225.139973	32.959246	1493.71	-804.52
5	GUIDE	335287112	9.22	2692	0.044	-0.023	0.080	0.129	224.732411	33.106430	282.78	-1377.39
6	GUIDE	335285640	9.12	2690	0.019	0.010	0.078	0.131	224.854294	34.122720	-2216.54	1319.74
7	GUIDE	335289016	9.42	2691	-0.031	0.014	0.087	0.142	224.628646	32.968085	446.33	-1941.37

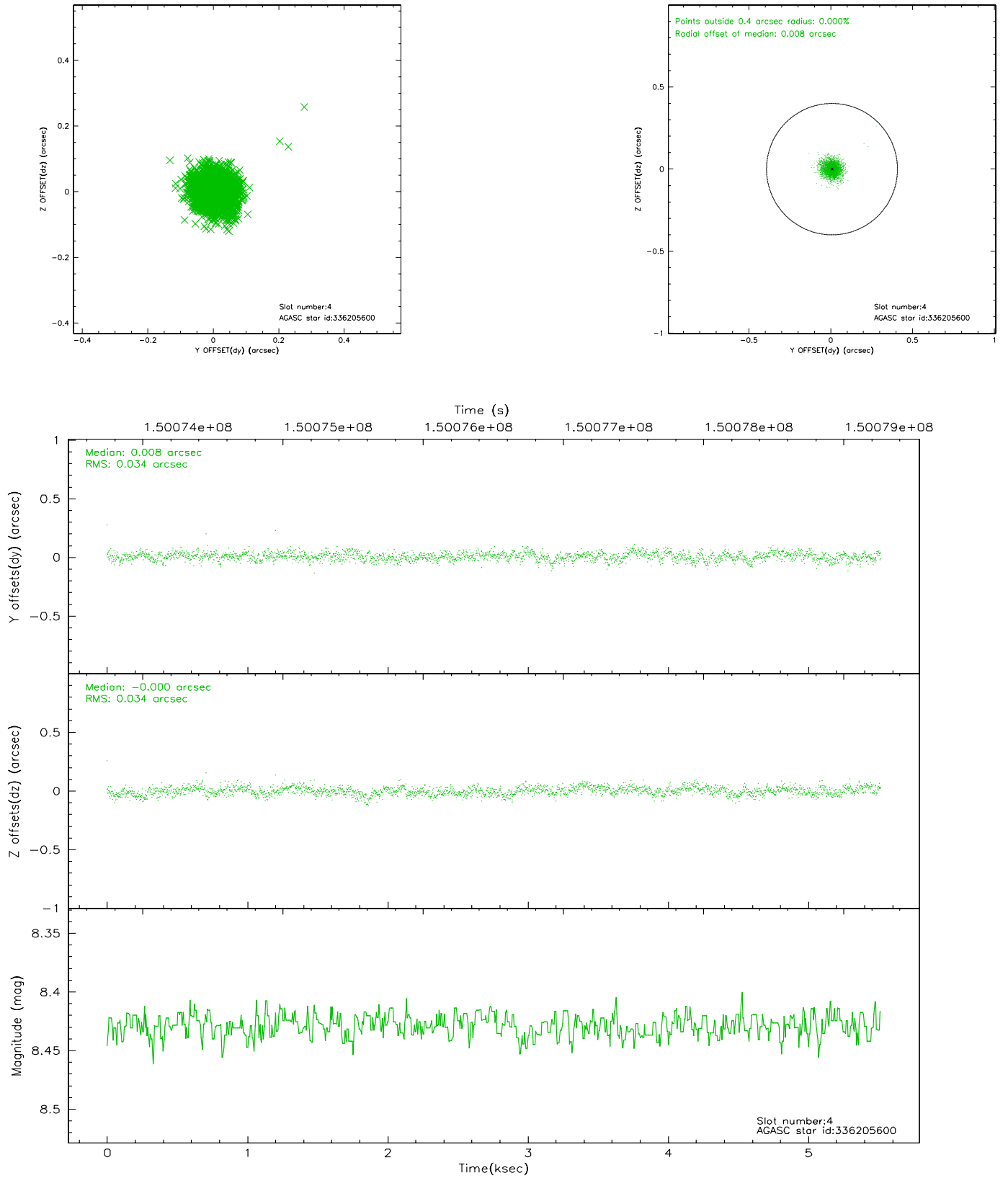


## 2.4 Star Slots

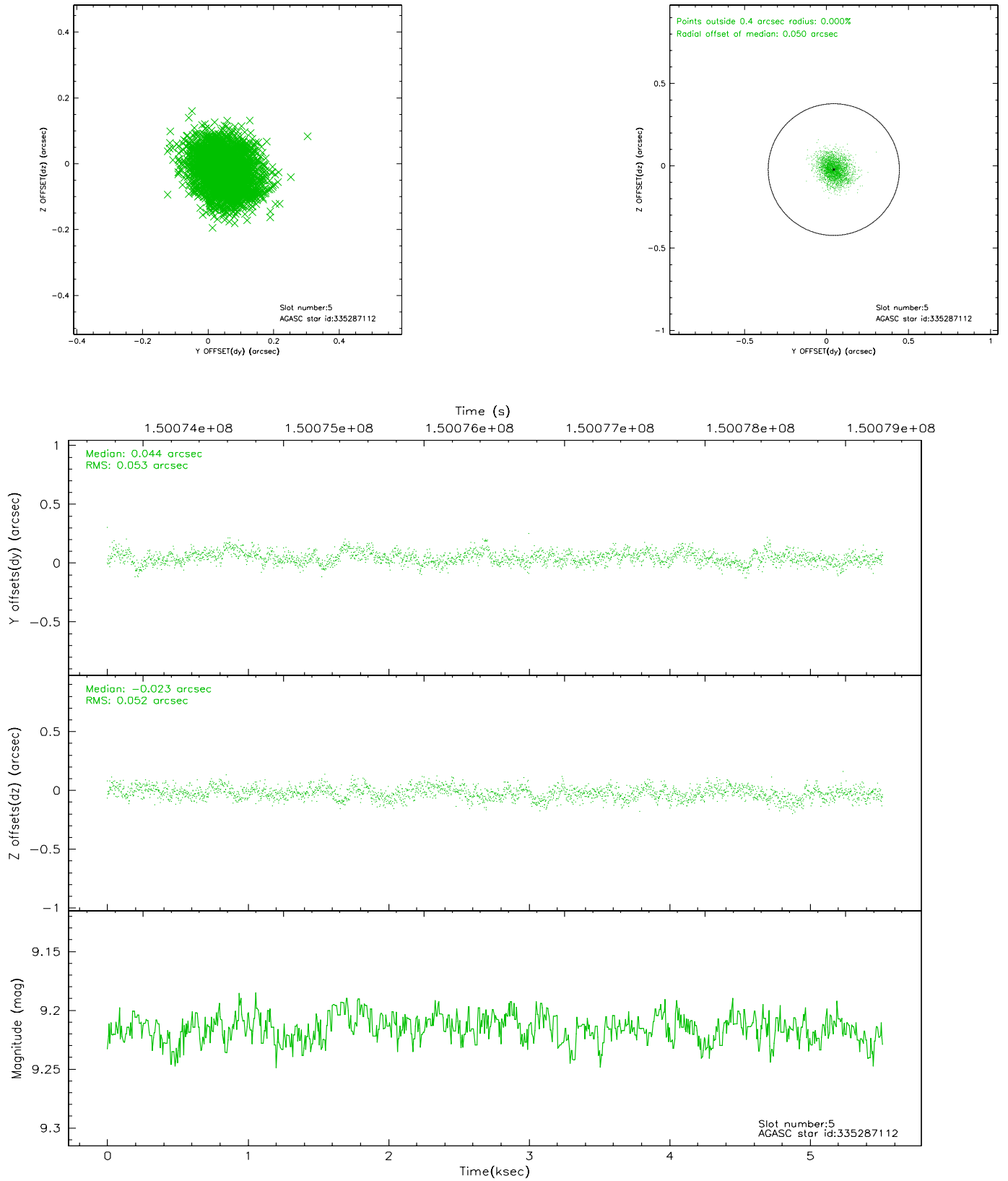
### 2.4.1 Slot 3



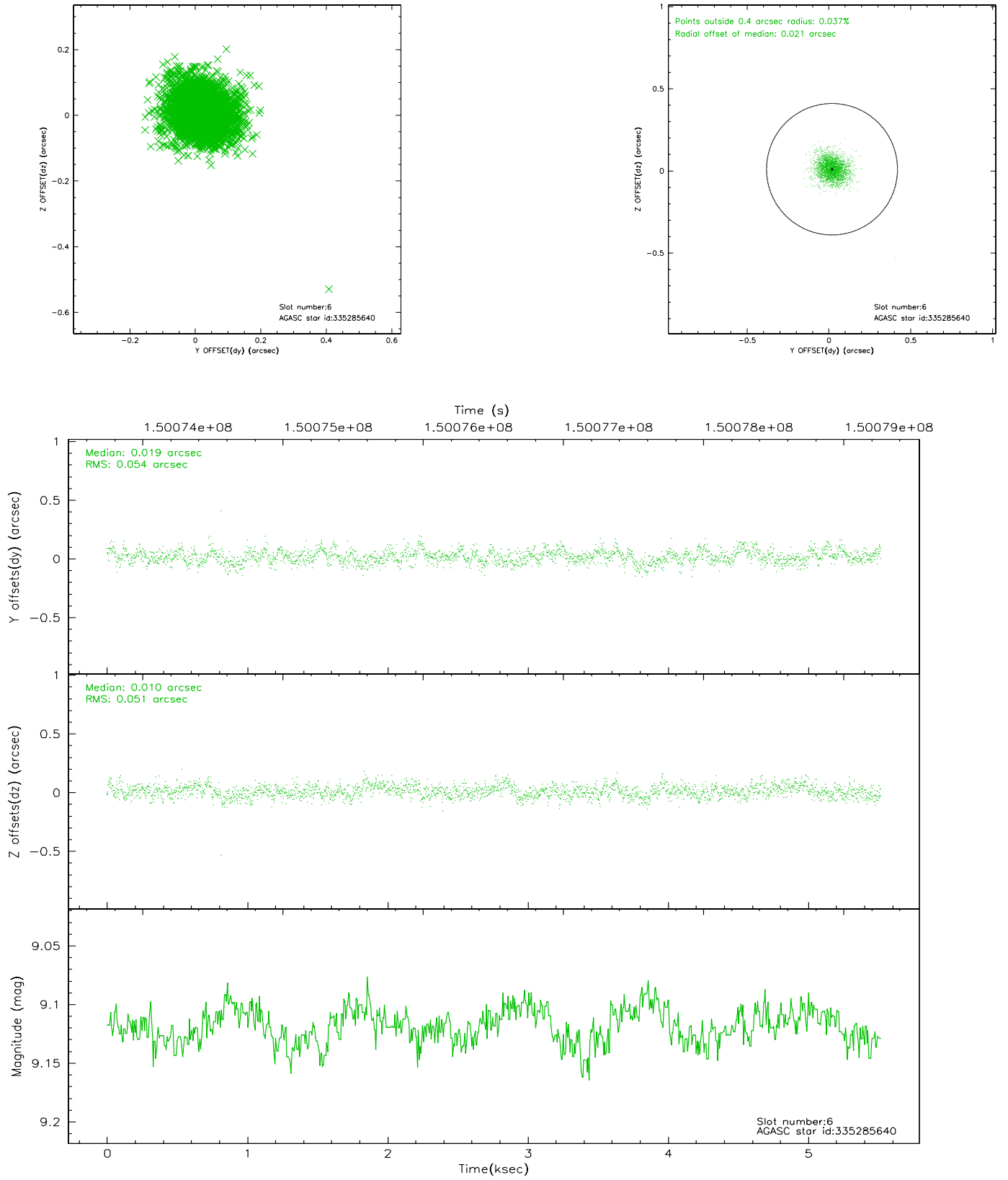
## 2.4.2 Slot 4



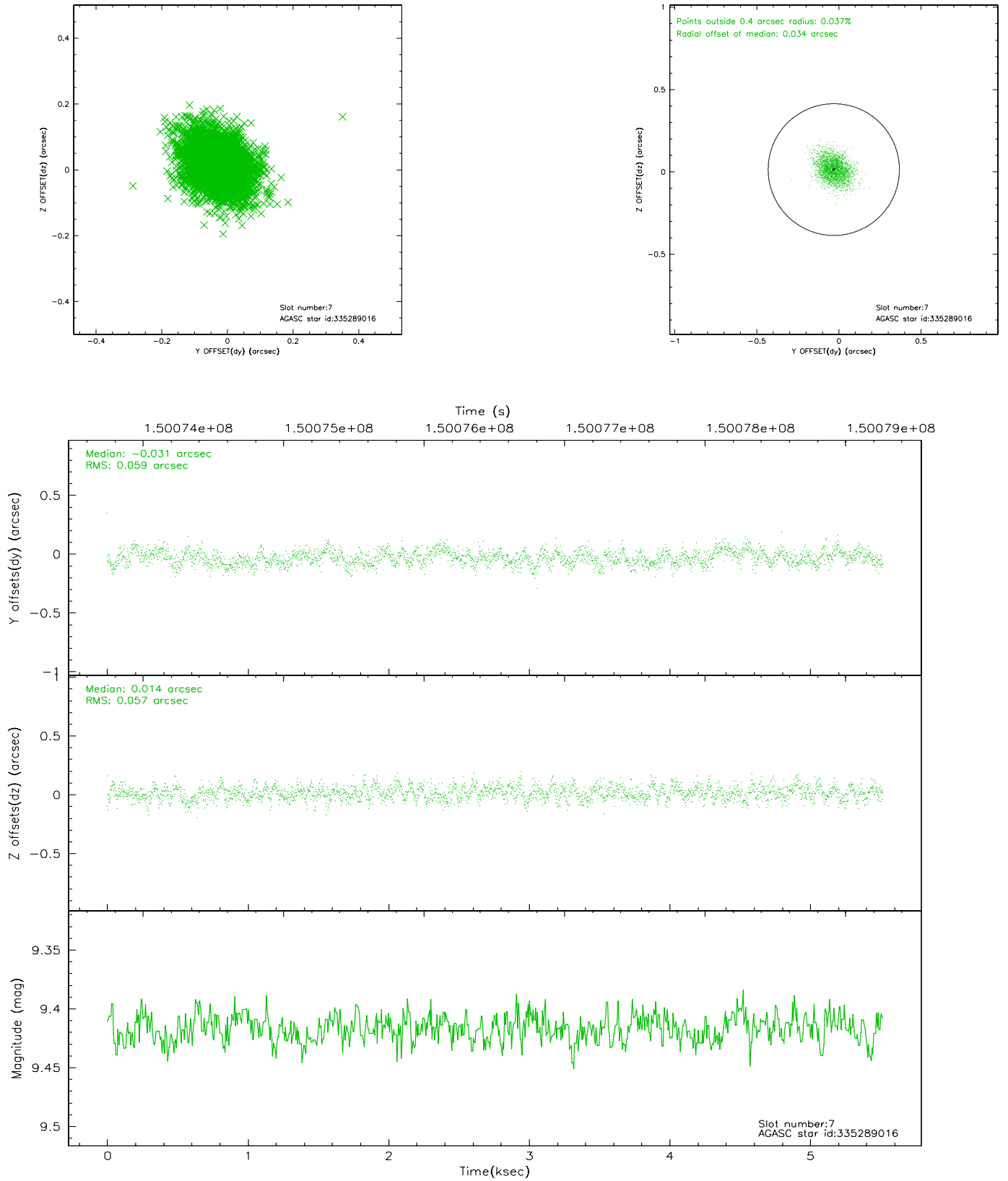
### 2.4.3 Slot 5



## 2.4.4 Slot 6

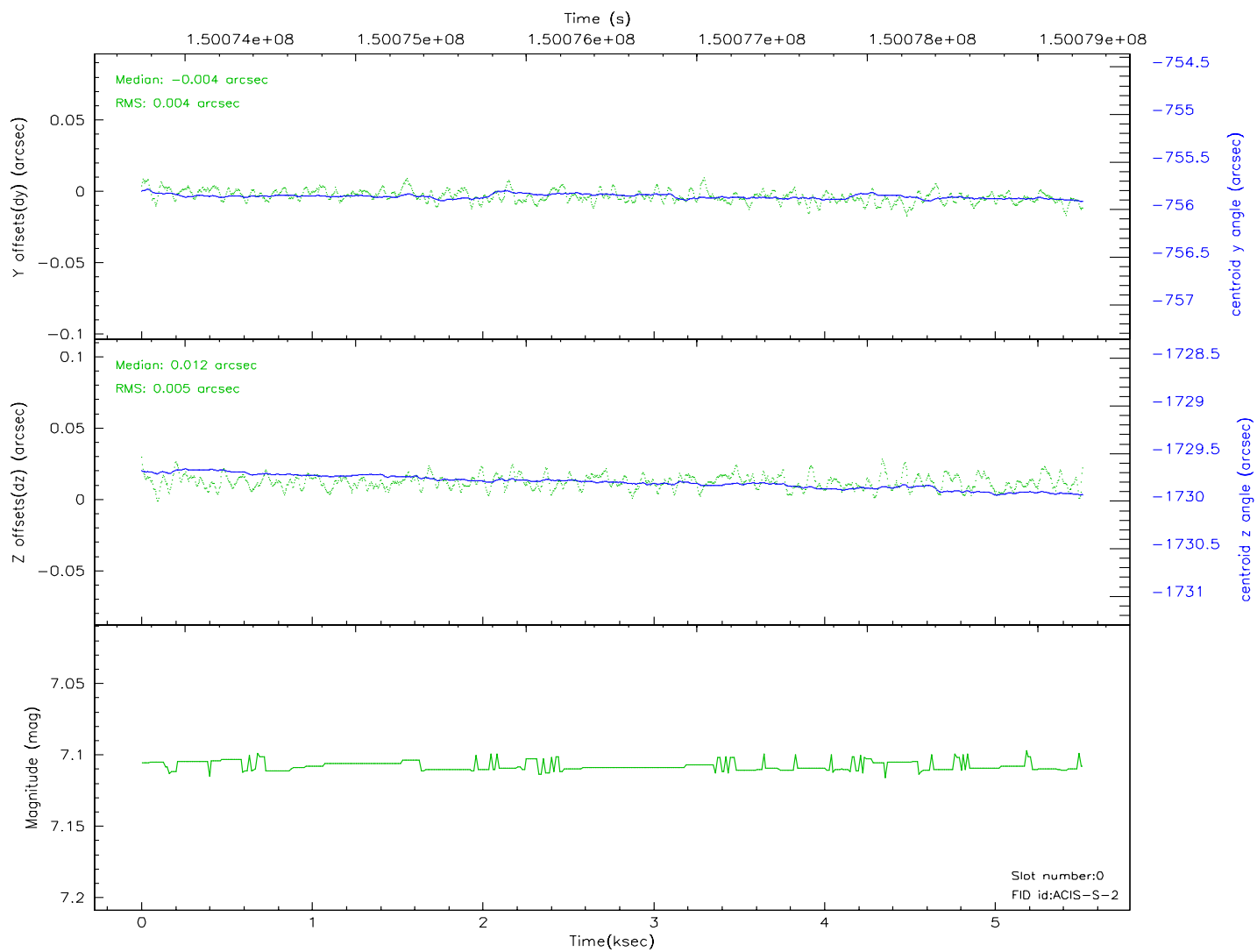
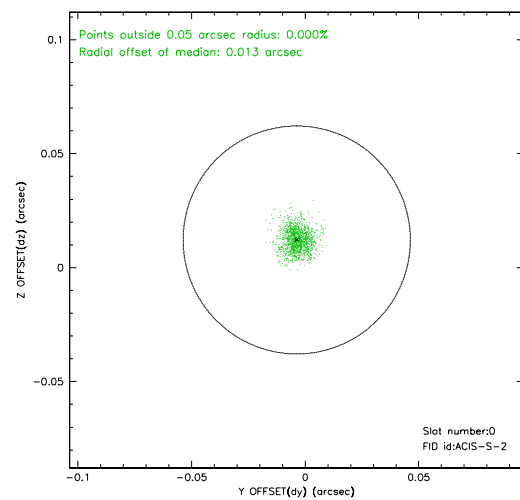
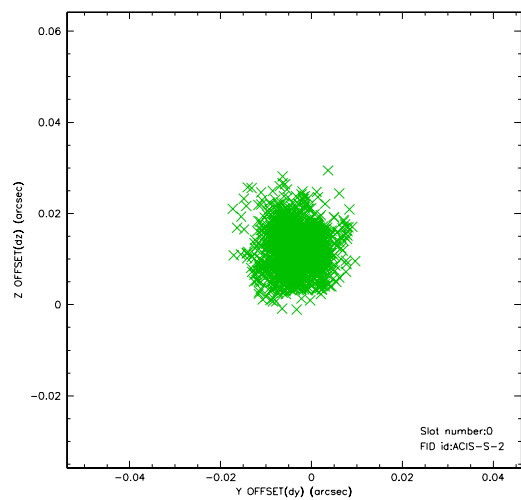


## 2.4.5 Slot 7

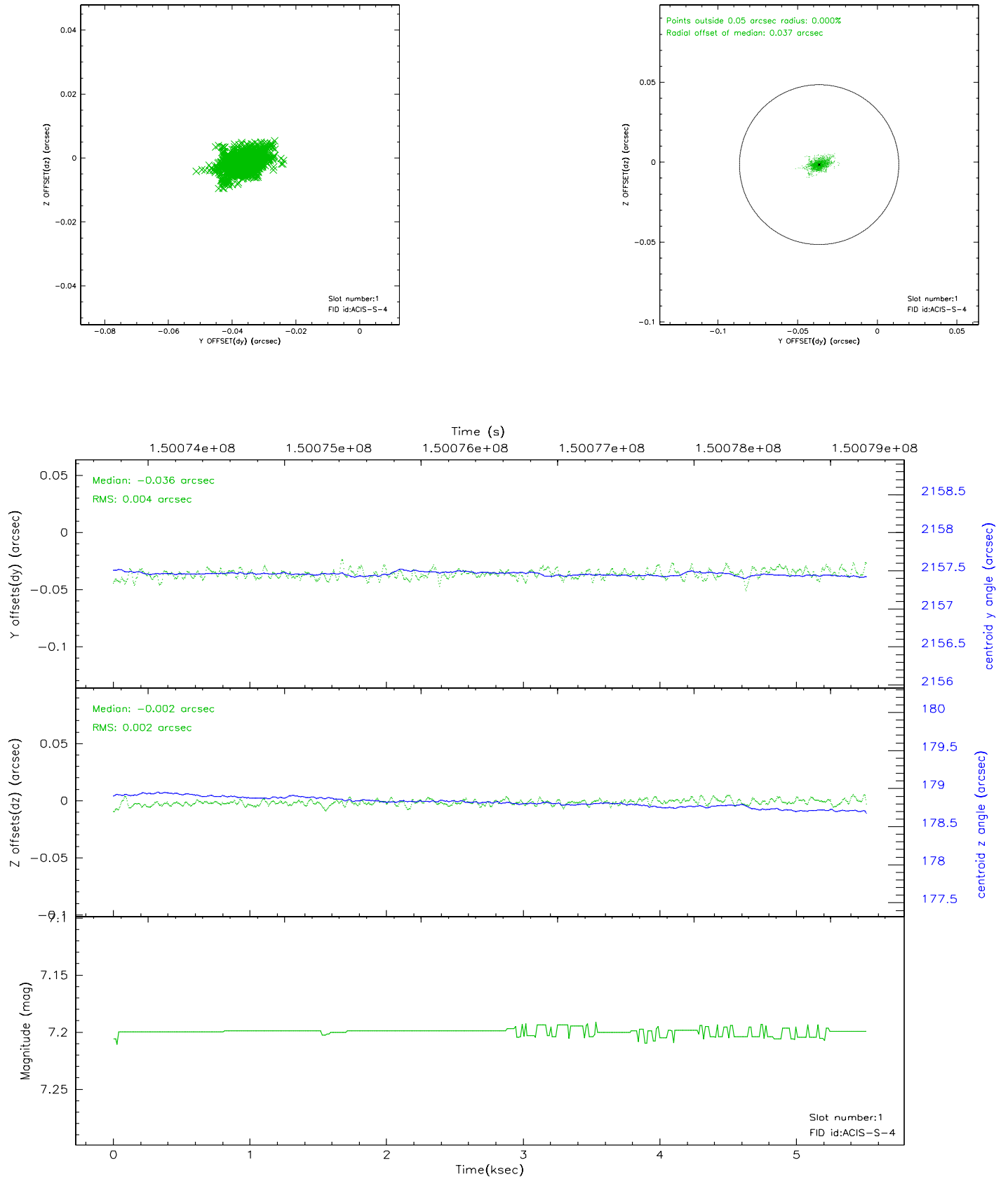


## 2.5 FID Slots

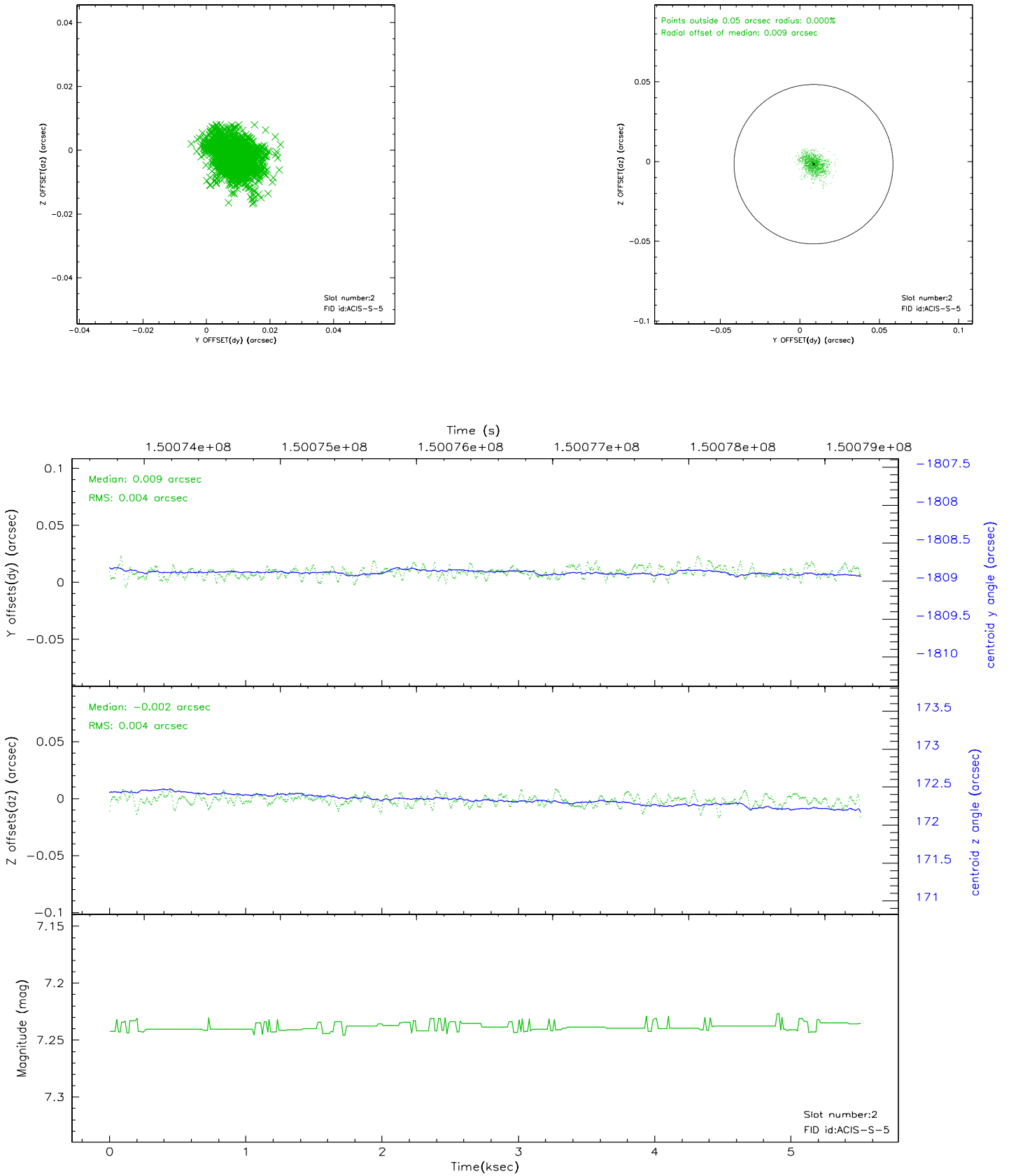
### 2.5.1 Slot 0



## 2.5.2 Slot 1

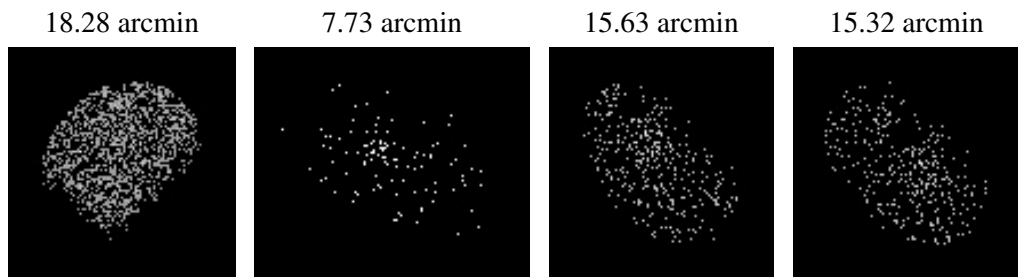


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.405

### A.2 Comments