

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.1

Observation 6122 - L2 Version 002  
Chandra X-Ray Center

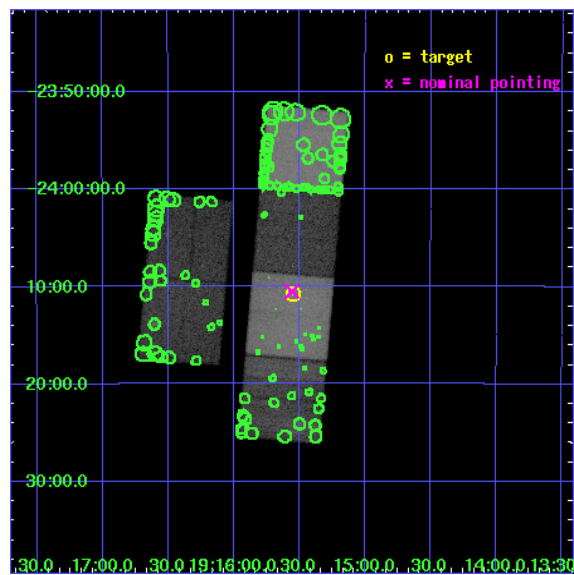
L2 Processing Date : Mar 8 2006

## 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
2.5	FID Slots . . . . .	13
2.5.1	Slot 0 . . . . .	13
2.5.2	Slot 1 . . . . .	14
2.5.3	Slot 2 . . . . .	15
<b>3</b>	<b>Point Sources</b>	<b>16</b>
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

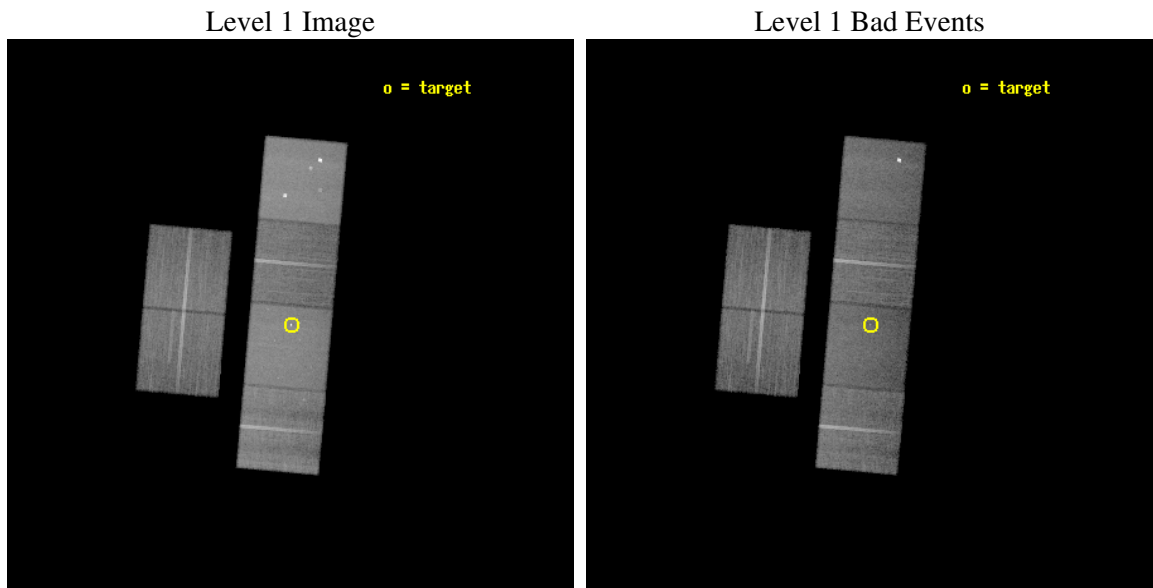
seq_num	200369
obs_id	6122
title	Planet-Induced Activity Enhancements in the HD 179949 System
observer	Dr. Steven Saar
object	HD 179949
dtcycle	0
cycle	P
ra_targ	288.888333
dec_targ	-24.179361
ra_nom	288.88979003231
dec_nom	-24.175219190076
roll_nom	95.048008229945
revision	2
ontime	32165.375182241
livetime	31758.07783402
ontime2	29949.034359038
ontime3	30142.992857367
ontime5	32204.267075777
ontime6	30130.028807044
ontime7	32165.375182241
ontime8	30311.525346845
l2events	478528



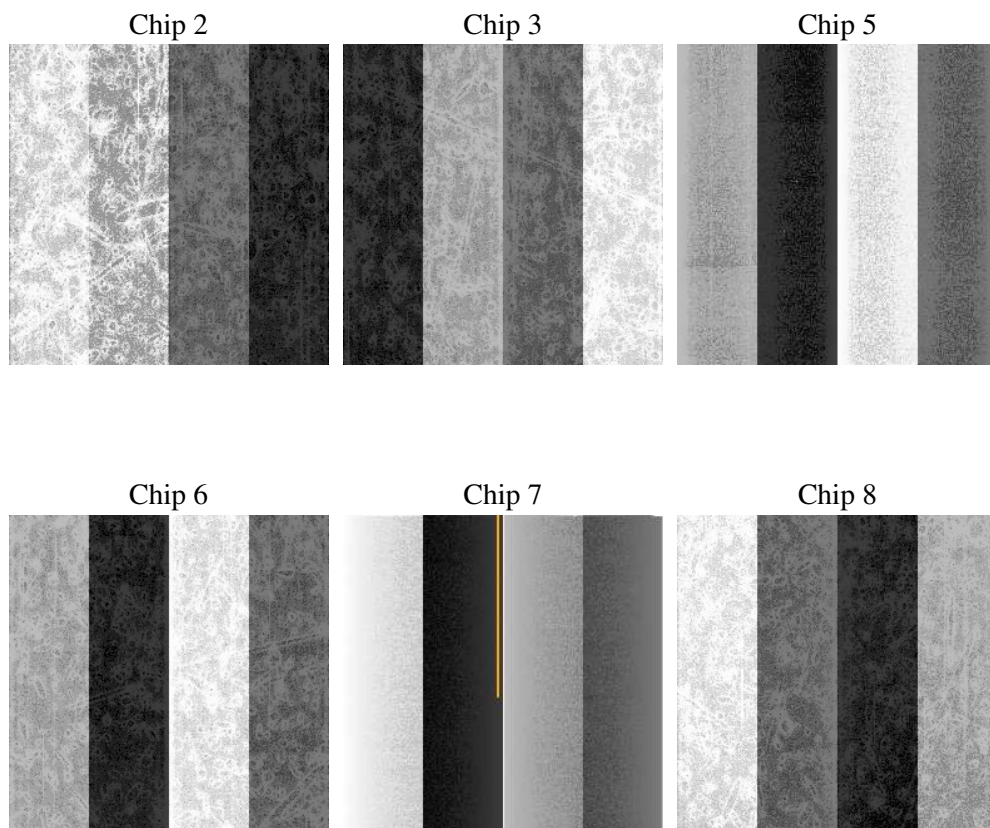
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-03-08T15:38:15
revision	2

sched_exp_time	32225.326000
ontime	32611.042213321
ontime2	30394.199120104
ontime3	30585.418888301
ontime5	32646.693106711
ontime6	30572.454837978
ontime7	32611.042213321
ontime8	30753.951377779
l1events	1515594

### 2.1.4 Events

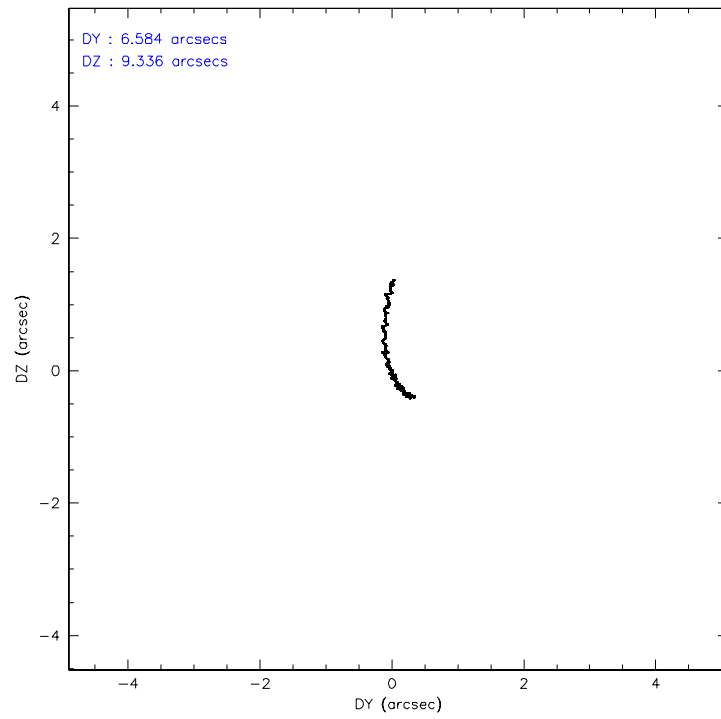
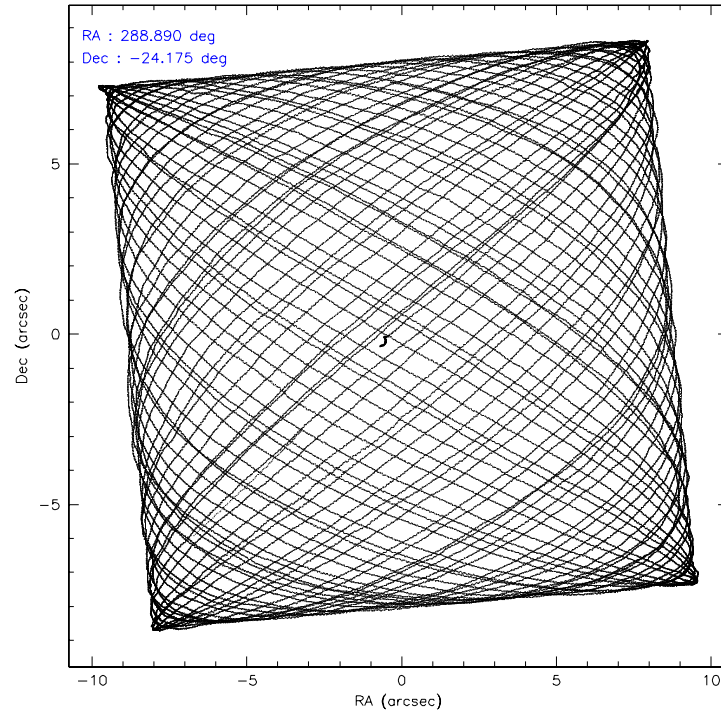
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	204162	192006	351370	202843	300758	264455
rejected events	171286	157617	161839	163836	138594	179608
rejected %	83%	82%	46%	80%	46%	67%

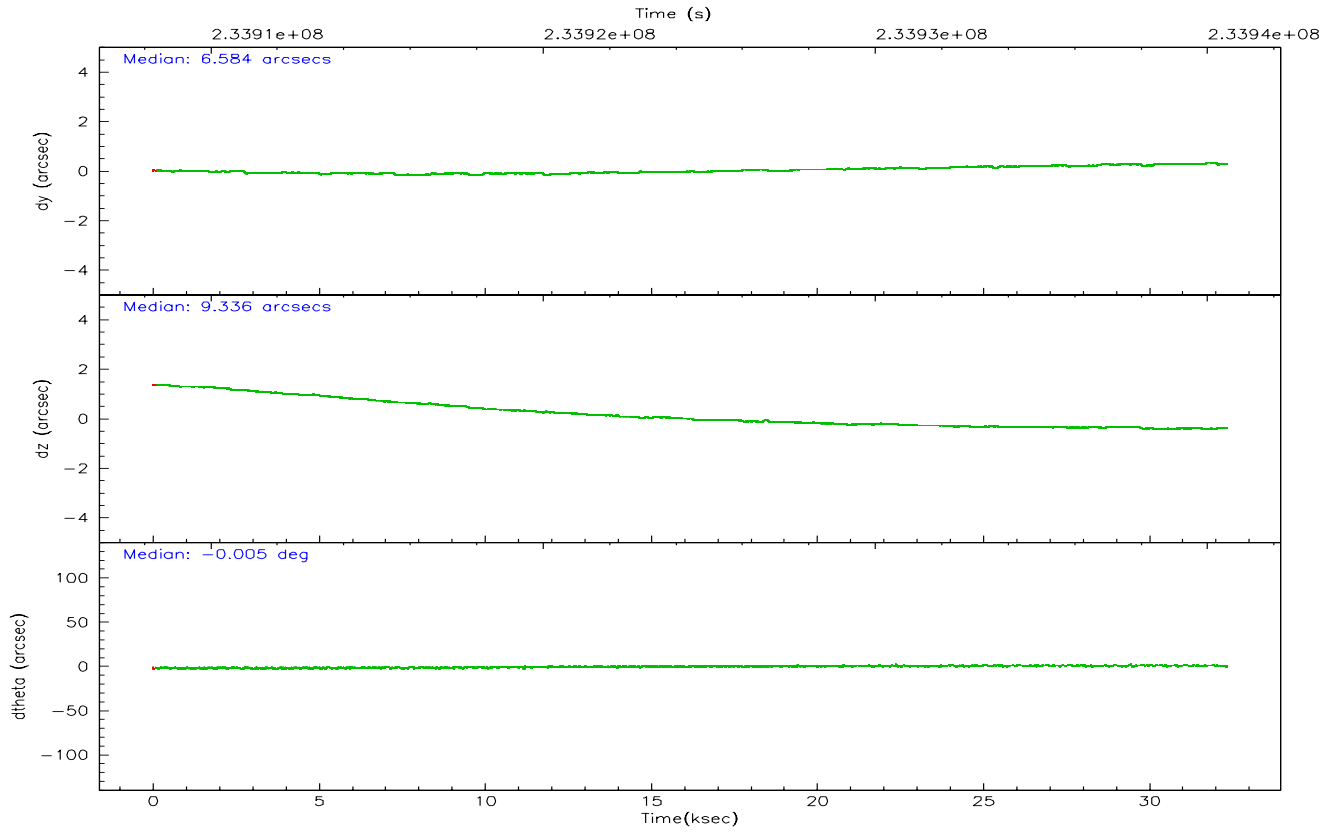
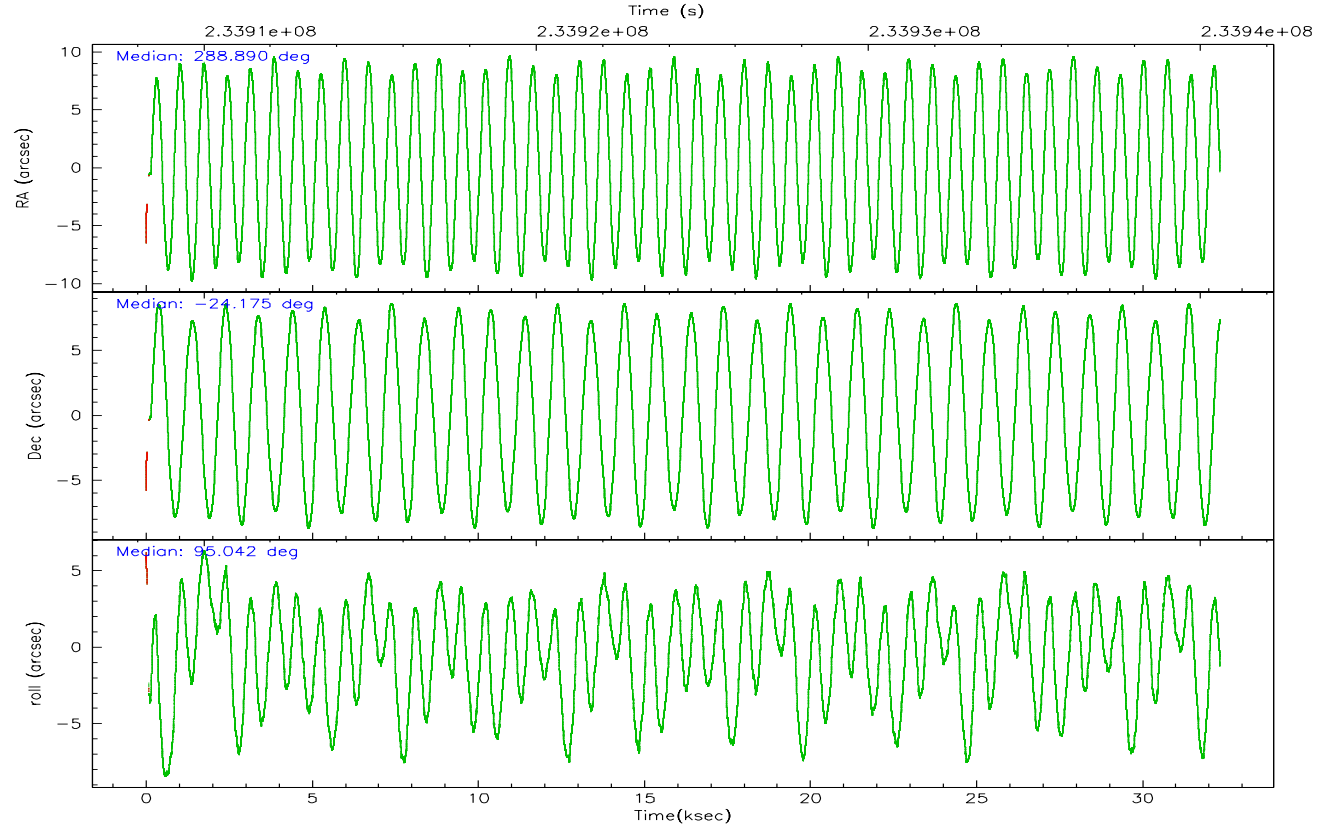
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	16991	18026	18611	20517	13592	39915
	8%	9%	5%	10%	4%	15%
grade 1 events	168	167	113	168	129	293
	0%	0%	0%	0%	0%	0%
grade 2 events	6088	5822	61822	6430	38131	15538
	2%	3%	17%	3%	12%	5%
grade 3 events	2629	2748	5292	2973	9346	7089
	1%	1%	1%	1%	3%	2%
grade 4 events	2610	2817	5111	2863	8860	6611
	1%	1%	1%	1%	2%	2%
grade 5 events	6395	7176	16484	7525	17401	10622
	3%	3%	4%	3%	5%	4%
grade 6 events	4858	5223	100532	6497	93687	16516
	2%	2%	28%	3%	31%	6%
grade 7 events	164423	150027	143405	155870	119612	167871
	80%	78%	40%	76%	39%	63%

## 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	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	288.907257	288.8897900323109	Alternating exposures requested	N	N
Pointing Dec	-24.197286	-24.17521919007611	Primary exposure time	0.000000	3.2
Pointing Roll	94.898541	95.04800822994535			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Phase constraints	Y	Y			
Phase period	3.092455	3.092455			
Phase epoch	52891.020000	52891.020000			
Phase start	0.840000	0.840000			
Phase end	0.960000	0.960000			
Phase start error	0.030000	0.030000			
Phase end error	0.030000	0.030000			
Observation start time	233908366.184000	233907153.9507			
Observation start date	2005-05-31T06:31:42	2005-05-31T06:12:33			
Observation end time	233940591.184000	233940815.46474			
Observation end date	2005-05-31T15:28:47	2005-05-31T15:33:35			
Read mode	TIMED	TIMED			

## 2.3 Aspect





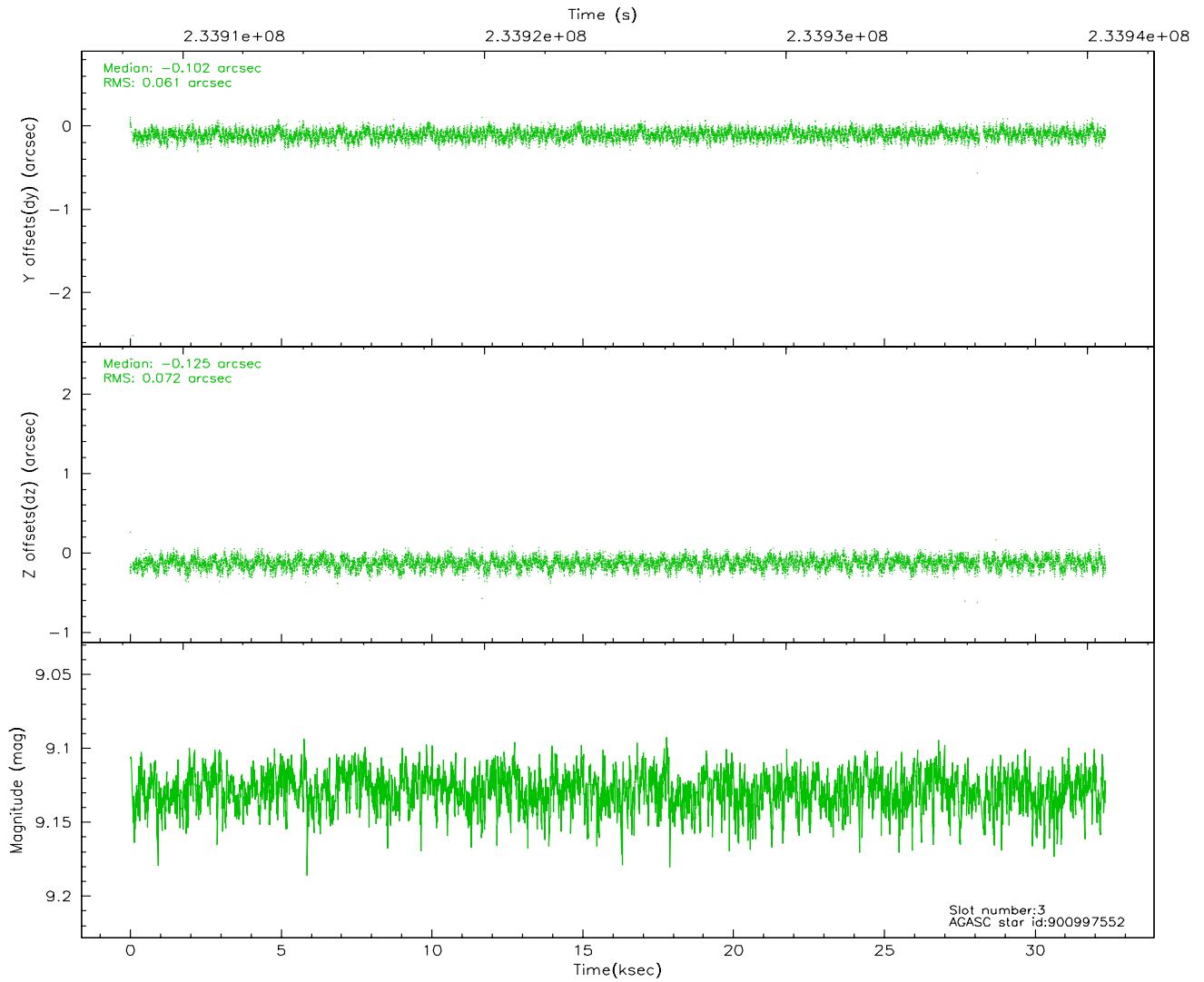
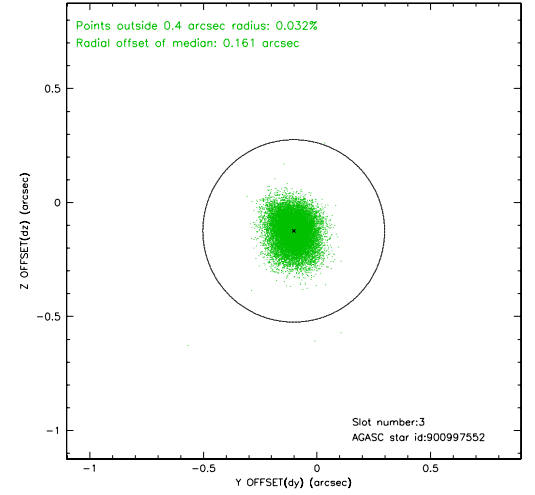
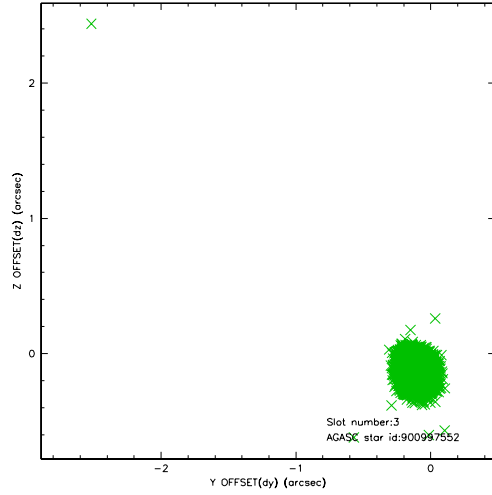
### Slot Statistics

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	7873	-0.041	-0.015	0.017	0.028	0.000000	0.000000	-759.38	-1730.78
1	FID	ACIS-S-4	7.20	7873	0.042	0.023	0.007	0.012	0.000000	0.000000	2153.93	177.72
2	FID	ACIS-S-5	7.23	7872	-0.032	0.001	0.018	0.027	0.000000	0.000000	-1812.17	171.38
3	GUIDE	900997552	9.13	15674	-0.102	-0.125	0.097	0.153	288.312519	-24.029579	764.29	1897.30
4	GUIDE	901144560	8.68	15741	-0.064	0.146	0.069	0.111	289.333664	-23.842375	1151.35	-1507.33
5	GUIDE	901514880	8.92	15740	0.108	-0.169	0.074	0.117	288.396412	-24.524459	-1033.65	1767.55
6	GUIDE	901647096	9.15	15737	0.059	0.146	0.080	0.129	289.707413	-24.700499	-2035.58	-2452.03
7	MONITOR		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

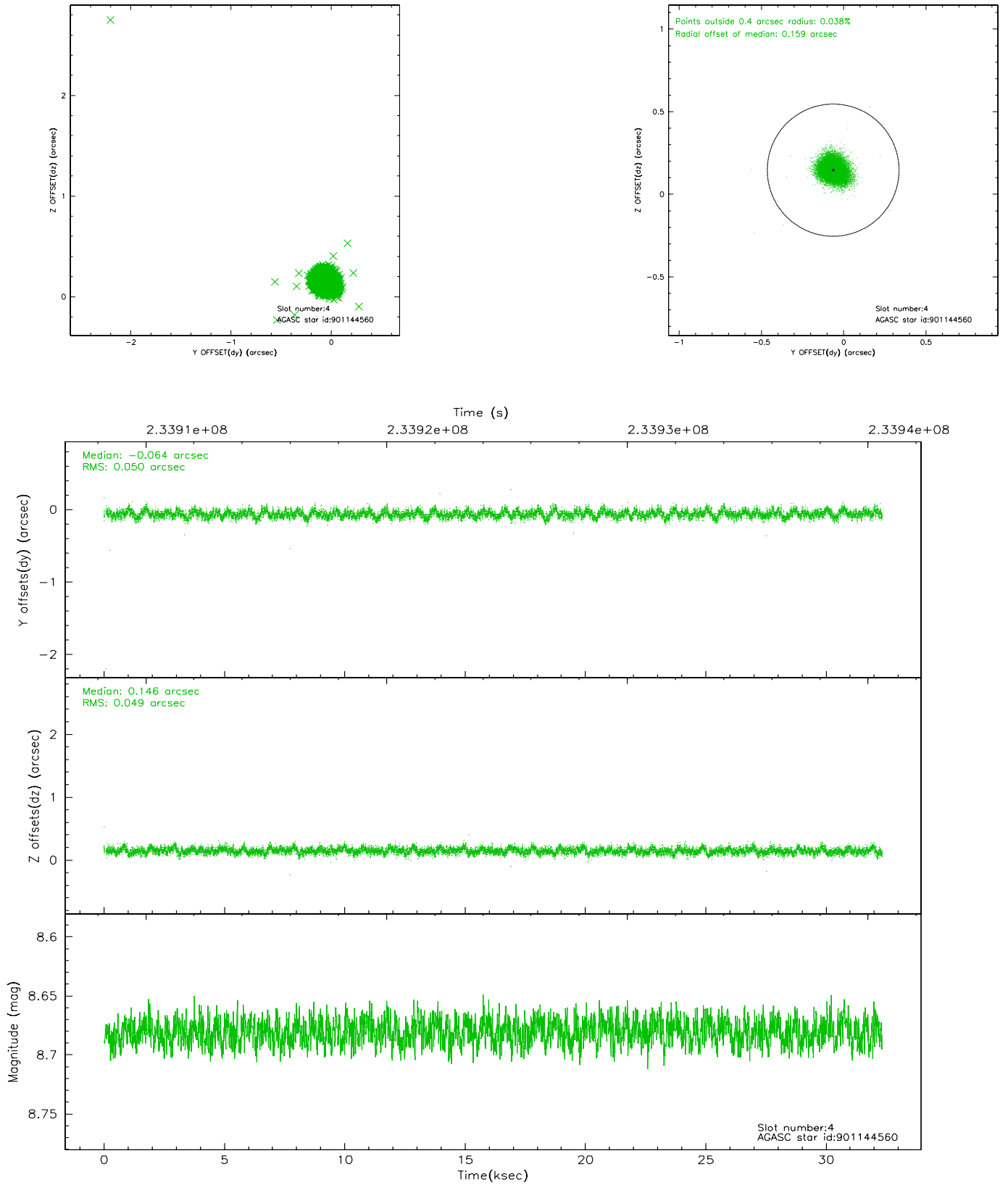


## 2.4 Star Slots

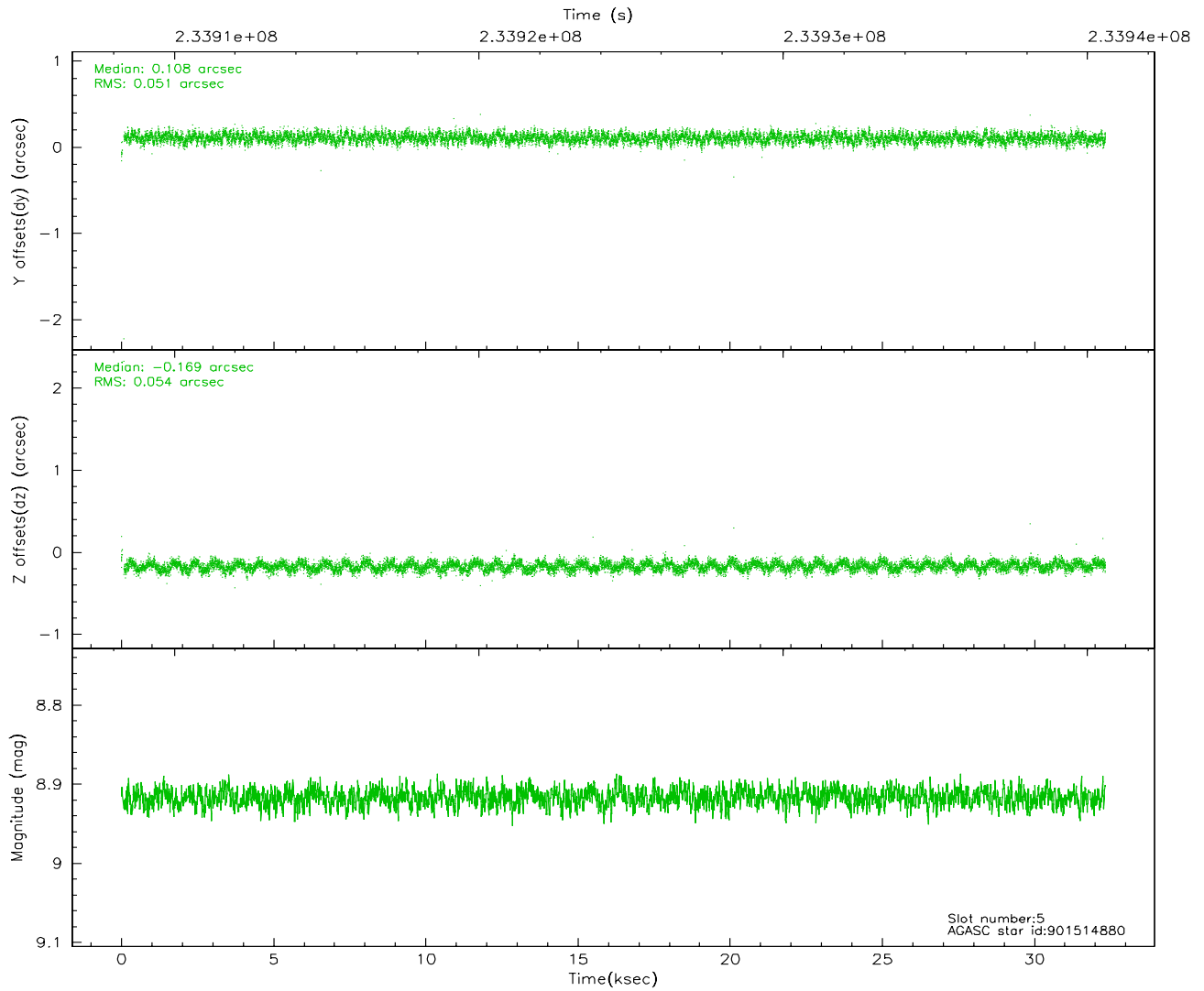
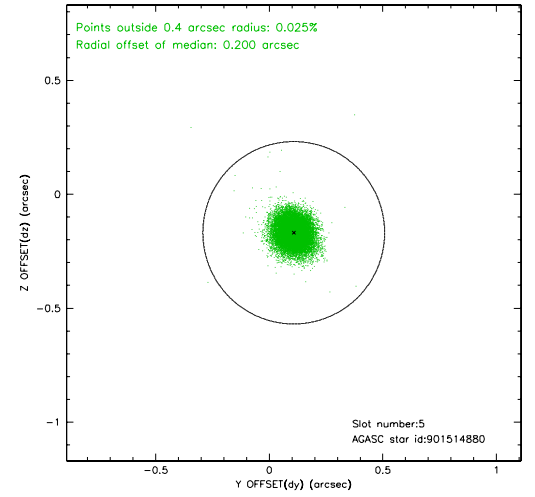
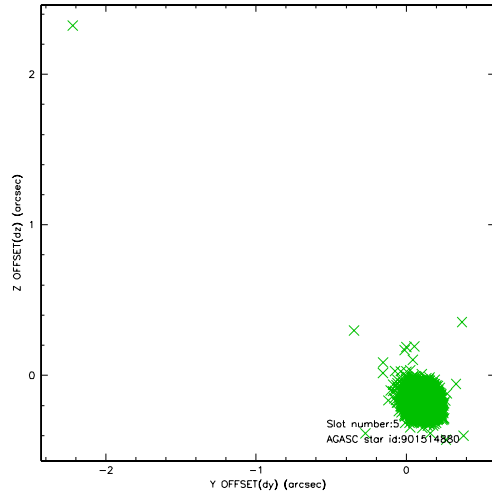
### 2.4.1 Slot 3



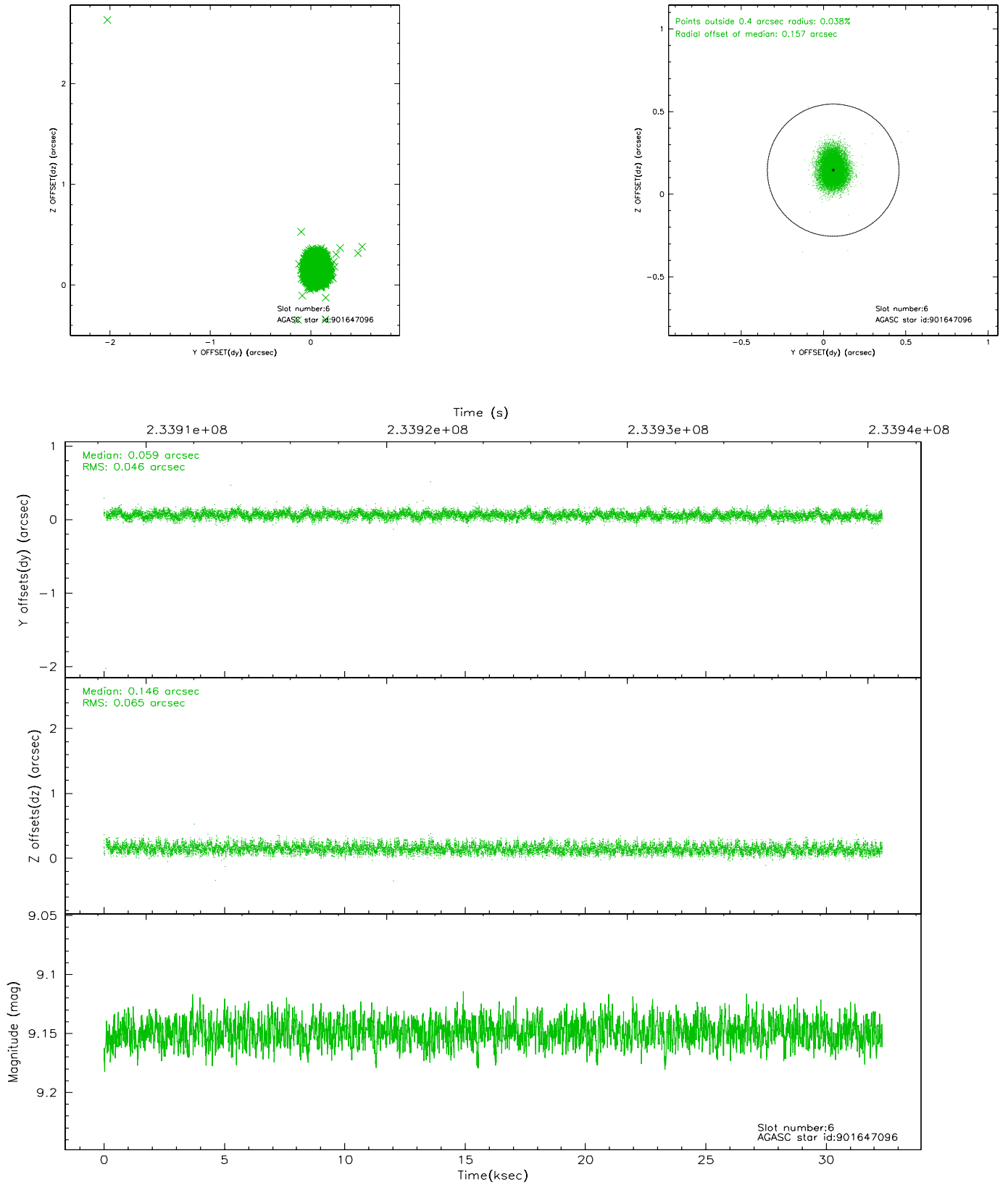
## 2.4.2 Slot 4



### 2.4.3 Slot 5

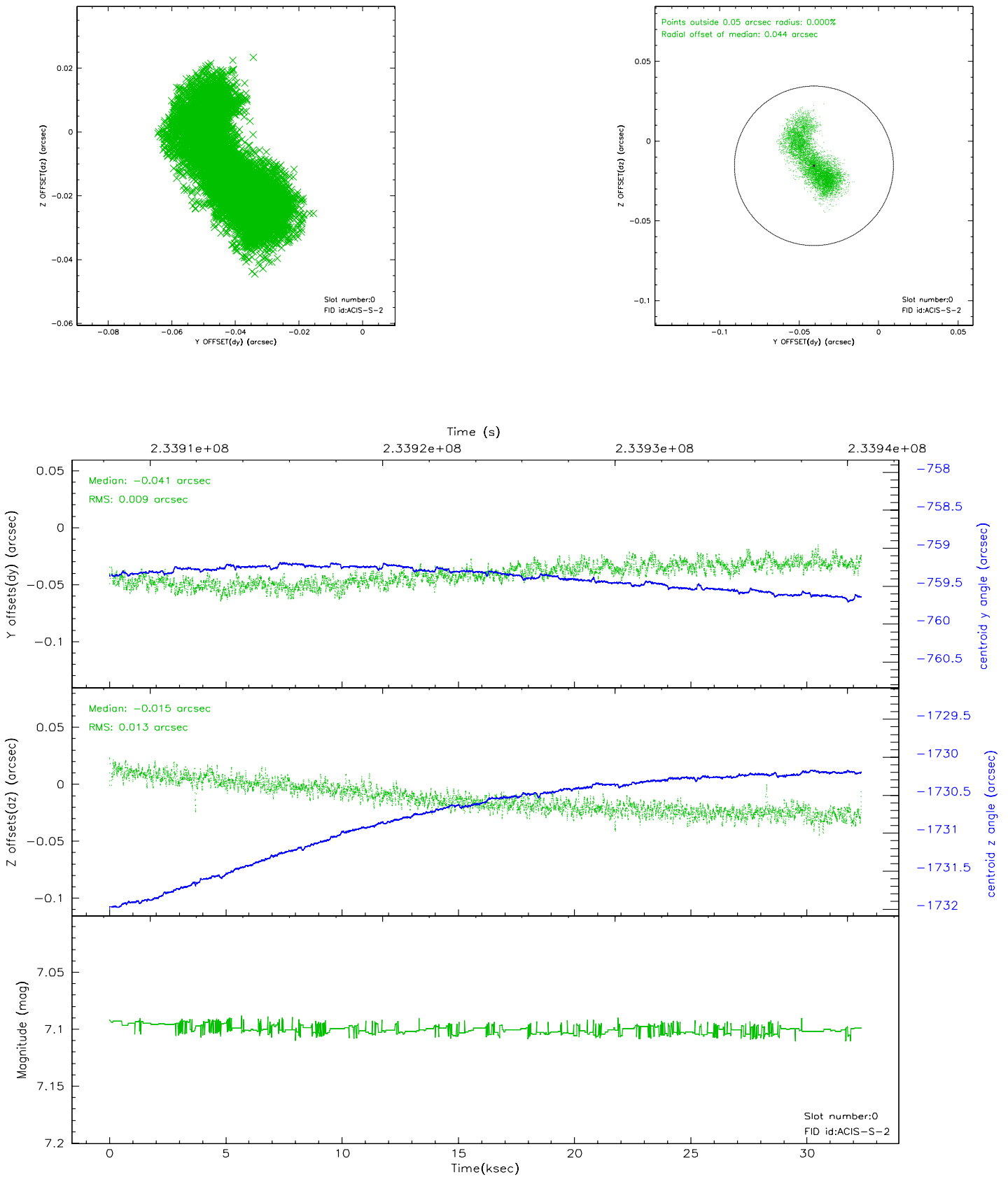


## 2.4.4 Slot 6

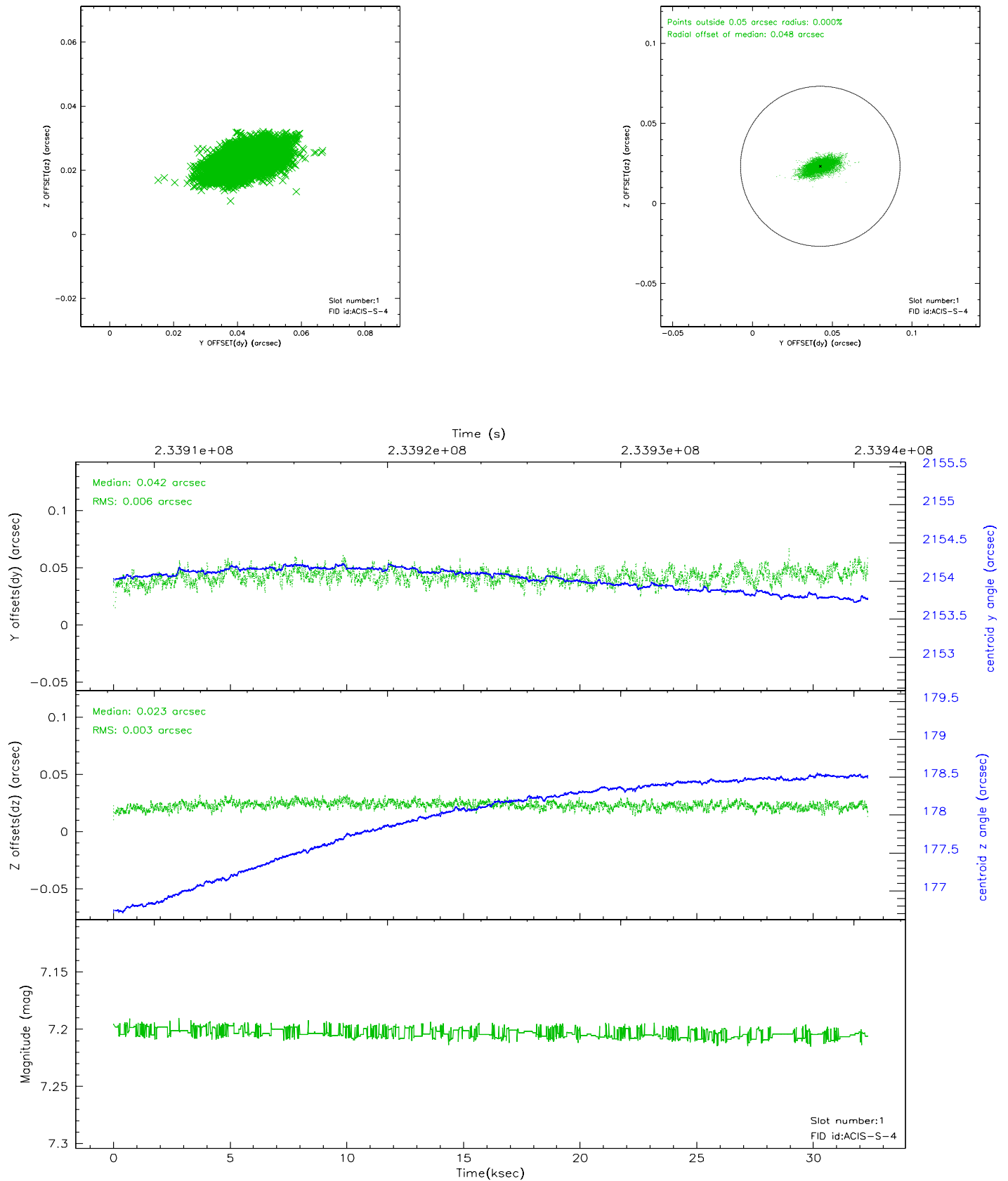


## 2.5 FID Slots

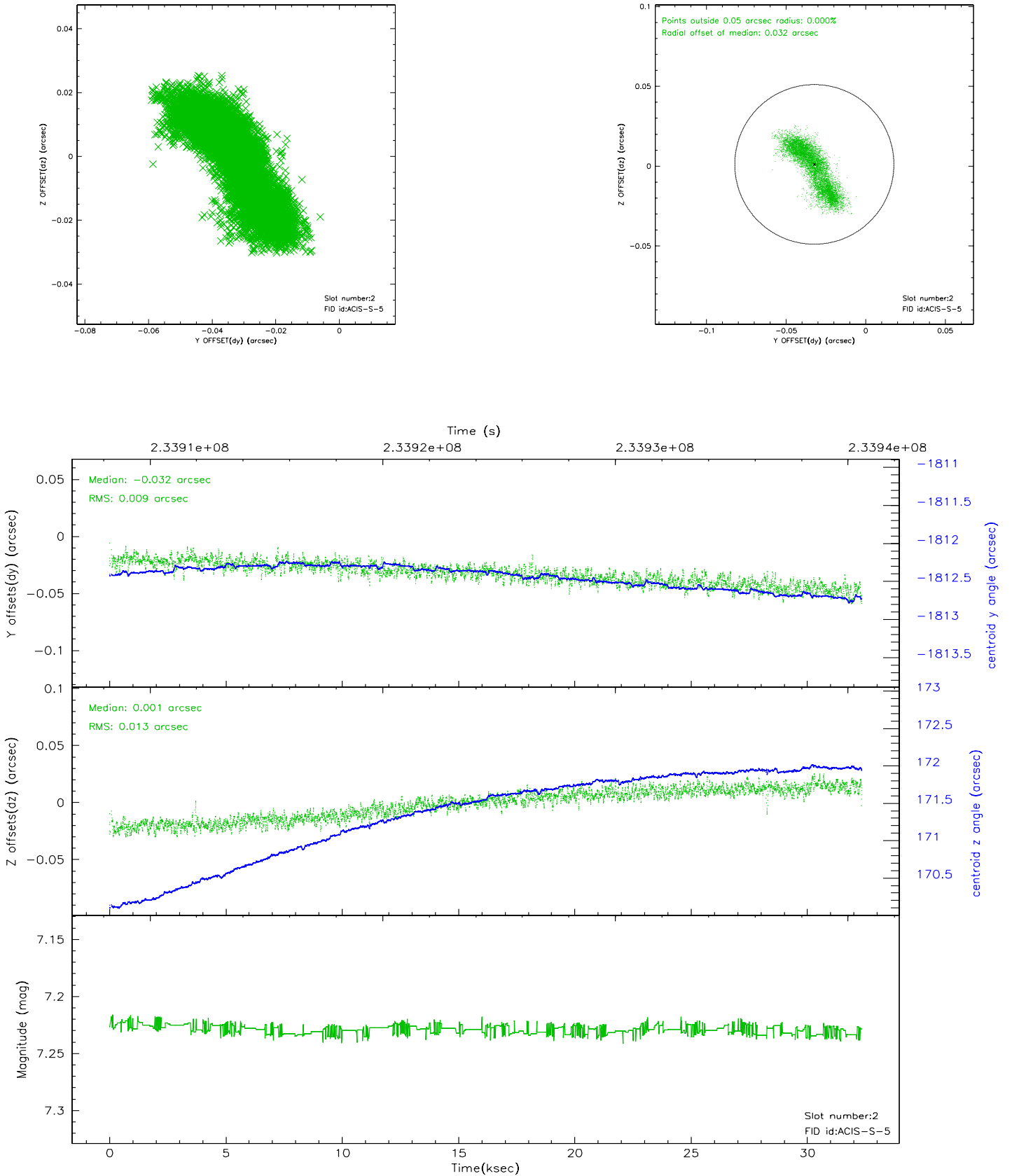
### 2.5.1 Slot 0



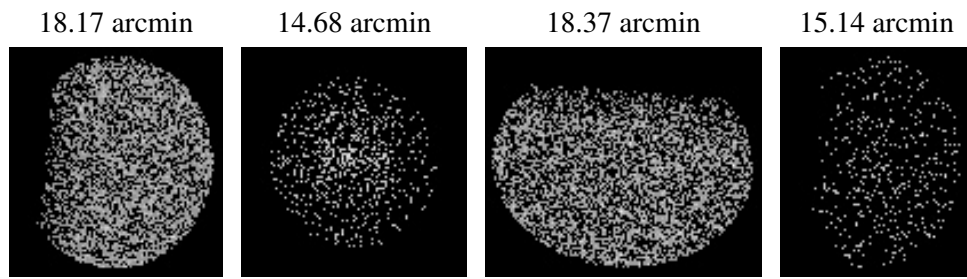
## 2.5.2 Slot 1



## 2.5.3 Slot 2



### 3 Point Sources





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.03.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	32.16537

### A.2 Comments