

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 5139 - L2 Version 001  
Chandra X-Ray Center

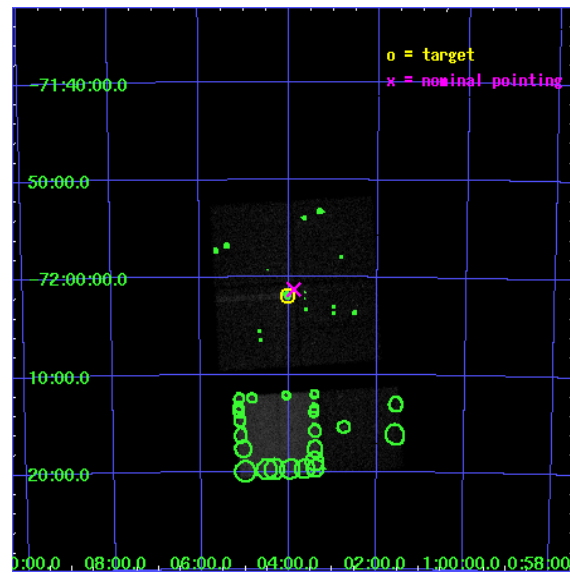
L2 Processing Date : May 25 2006

## 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

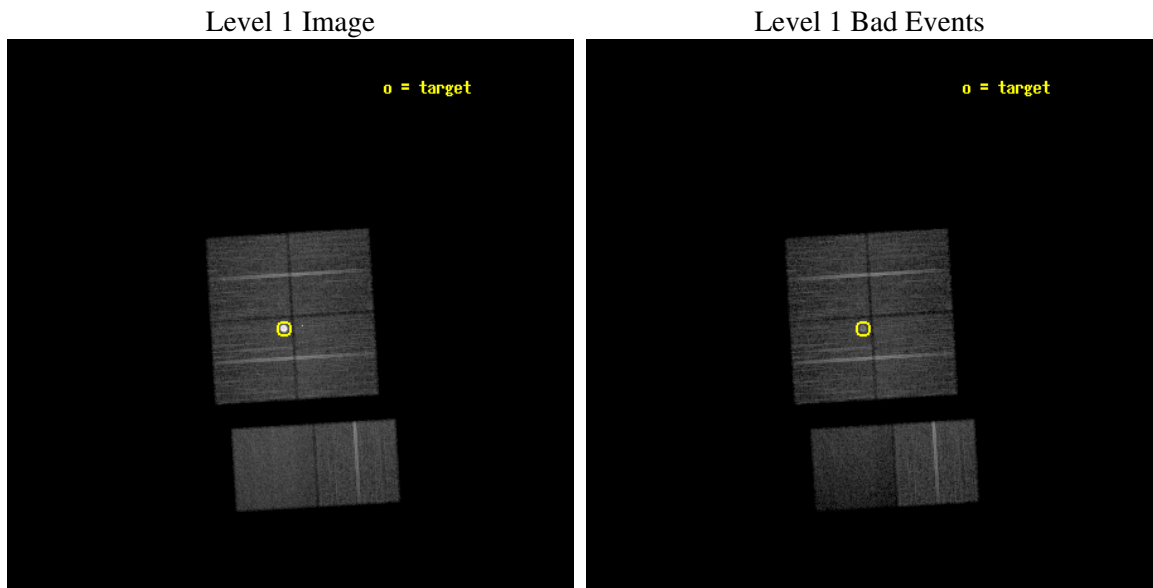
seq_num	590337
obs_id	5139
title	AO5B ACIS-I Calibration Observations of E0102-72
observer	Dr. CXC Calibration
object	E0102-72[I3,-120,-0.5,0.5,0]
dtcycle	0
cycle	P
ra_targ	16.01
dec_targ	-72.032028
ra_nom	15.971324119061
dec_nom	-72.021142027832
roll_nom	176.595889671
revision	2
ontime	20681.558932751
livetime	20419.676580605
ontime0	20678.318062097
ontime1	20684.799922943
ontime2	20684.799922943
ontime3	20681.558932751
ontime6	20684.799922943
ontime7	20684.799922943
l2events	171337



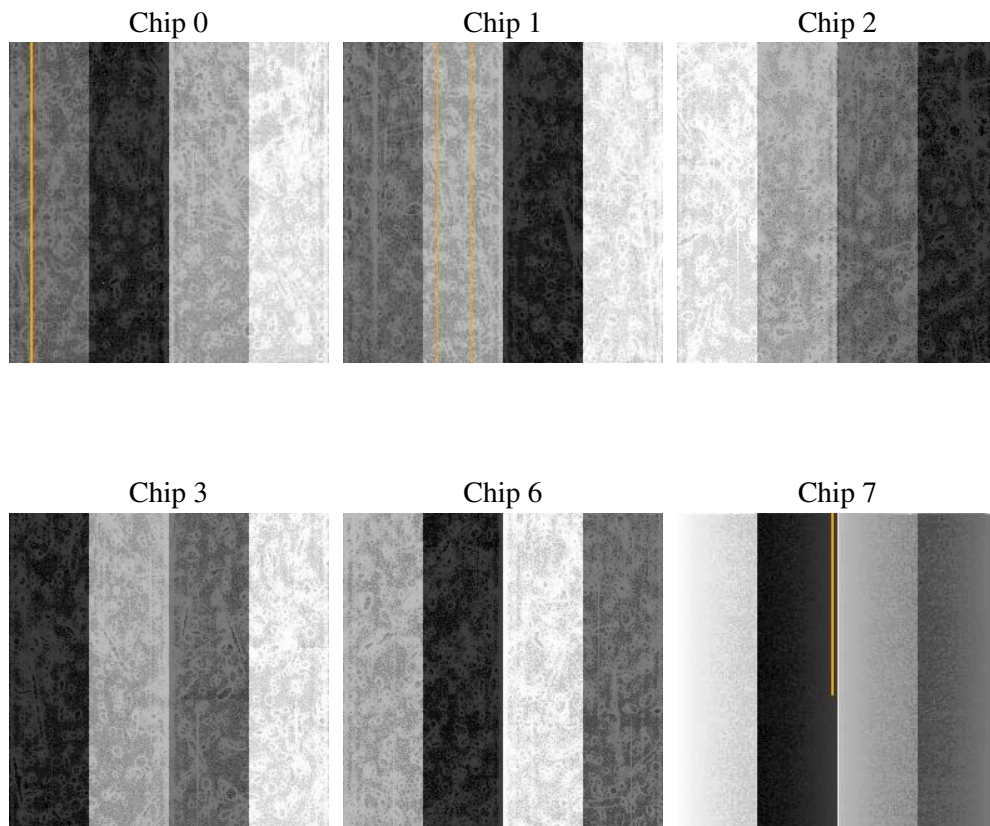
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldsver	3.2.2
date	2006-05-25T08:41:14
revision	2

sched_exp_time	20724.000000
ontime	20687.310640544
ontime0	20684.069769889
ontime1	20690.551630735
ontime2	20690.551630735
ontime3	20687.310640544
ontime6	20690.551630735
ontime7	20690.551630735
l1events	743665

### 2.1.4 Events

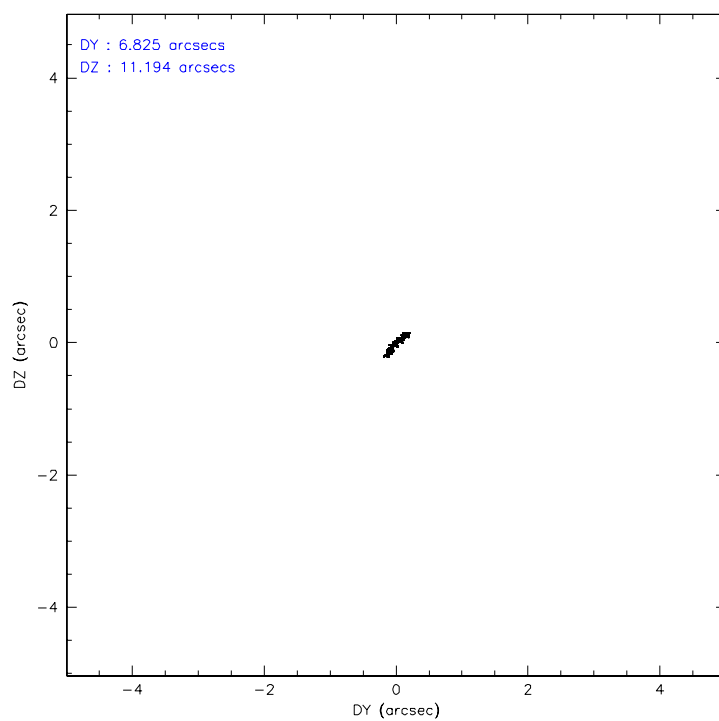
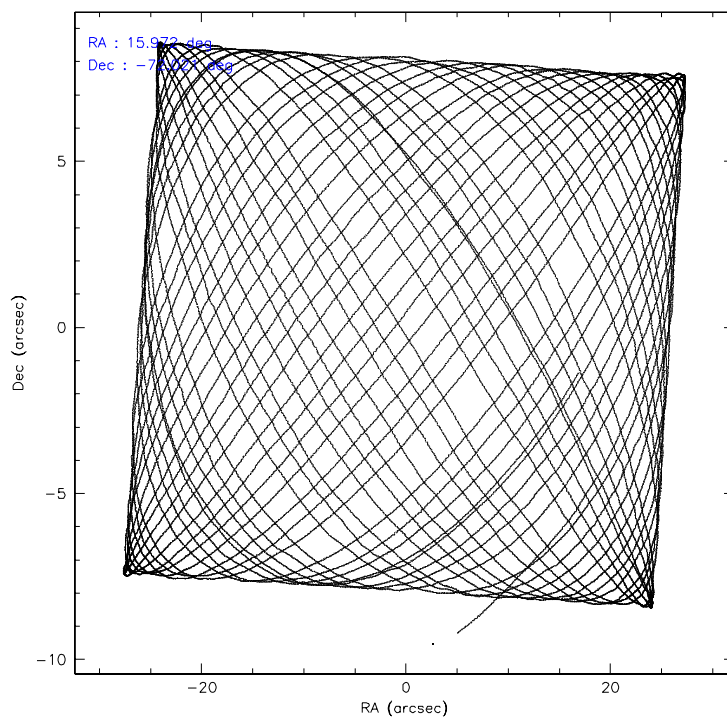
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	105762	106327	119211	183203	118390	110772
rejected events	93568	93651	105908	103492	105172	58115
rejected %	88%	88%	88%	56%	88%	52%

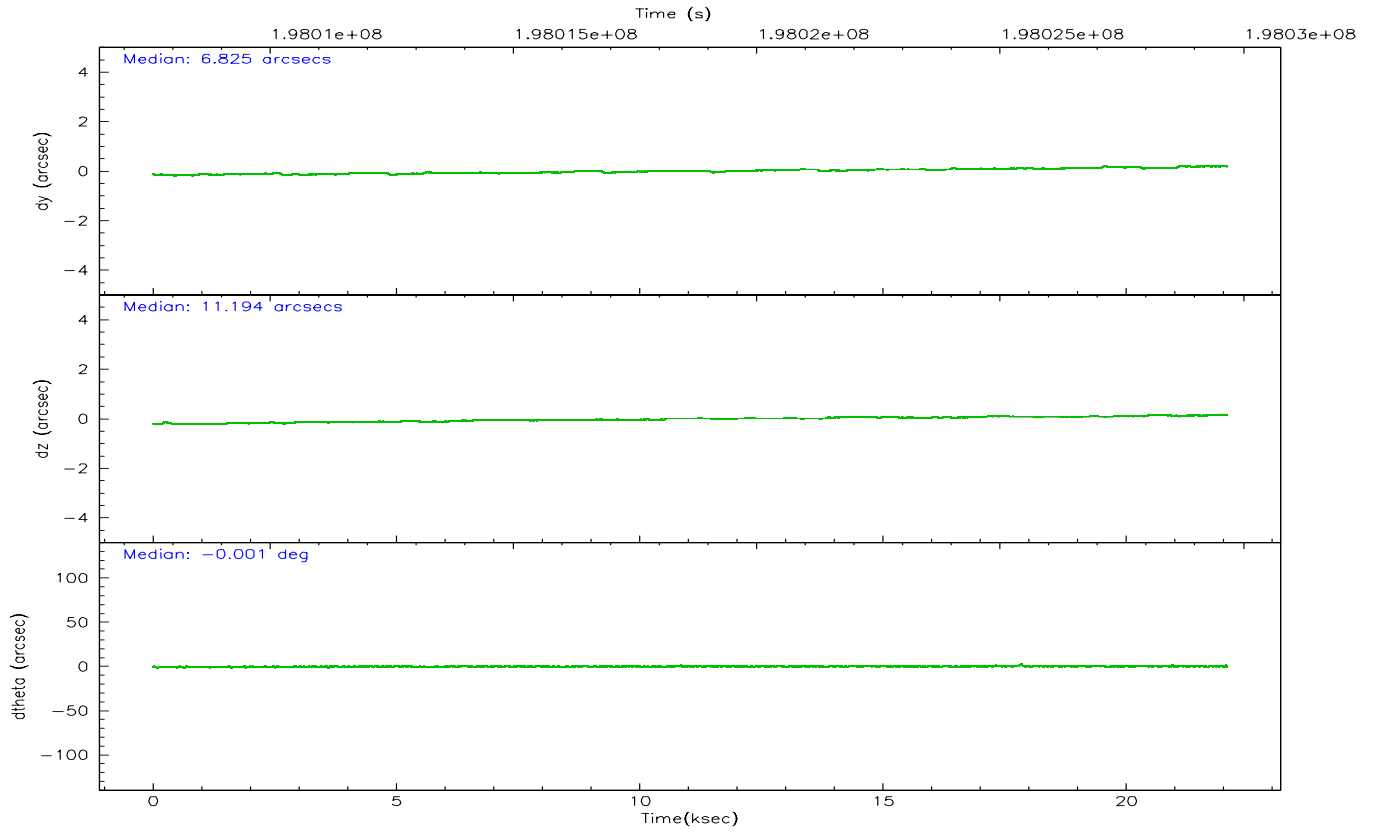
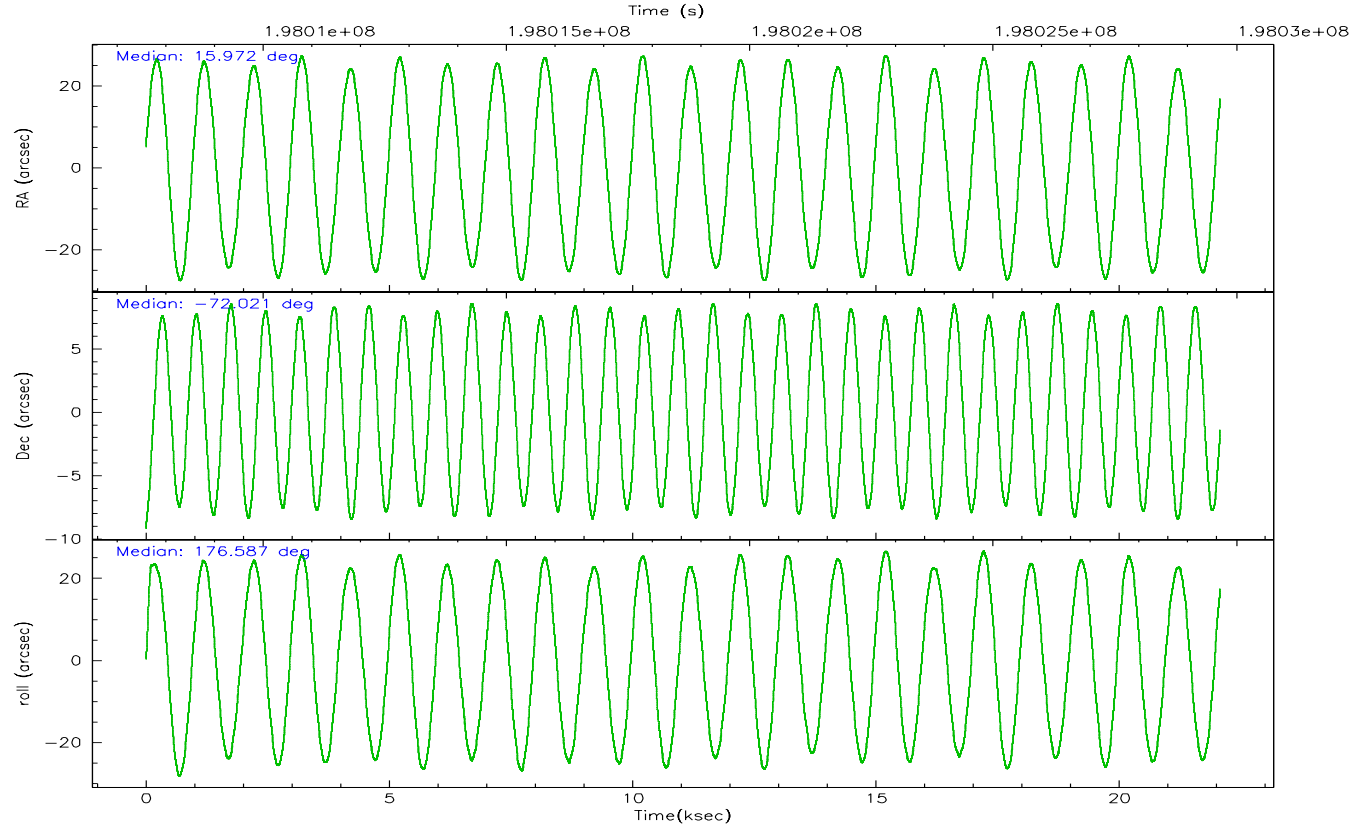
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	4942	4970	6124	66019	5483	3901
	4%	4%	5%	36%	4%	3%
grade 1 events	60	58	92	825	69	77
	0%	0%	0%	0%	0%	0%
grade 2 events	2651	2578	2765	6875	2694	13368
	2%	2%	2%	3%	2%	12%
grade 3 events	1387	1443	1278	2315	1342	3253
	1%	1%	1%	1%	1%	2%
grade 4 events	1196	1357	1305	2216	1269	3387
	1%	1%	1%	1%	1%	3%
grade 5 events	3262	3663	3127	4043	4036	8662
	3%	3%	2%	2%	3%	7%
grade 6 events	2021	2330	1840	2310	2437	28762
	1%	2%	1%	1%	2%	25%
grade 7 events	90243	89928	102680	98600	101060	49362
	85%	84%	86%	53%	85%	44%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	16.050379	15.9713241190611	Alternating exposures requested	N	N
Pointing Dec	-72.008769	-72.02114202783243	Primary exposure time	0.000000	3.2
Pointing Roll	176.462401	176.595889670995			
Window start time	197164864.184000	197164864.184000			
Window stop time	199670464.184000	199670464.184000			
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	198008946.184000	198007400.64142			
Observation start date	2004-04-10T18:28:02	2004-04-10T18:03:20			
Observation end time	198029670.184000	198030452.37994			
Observation end date	2004-04-11T00:13:26	2004-04-11T00:27:32			
Read mode	TIMED	TIMED			

## 2.3 Aspect





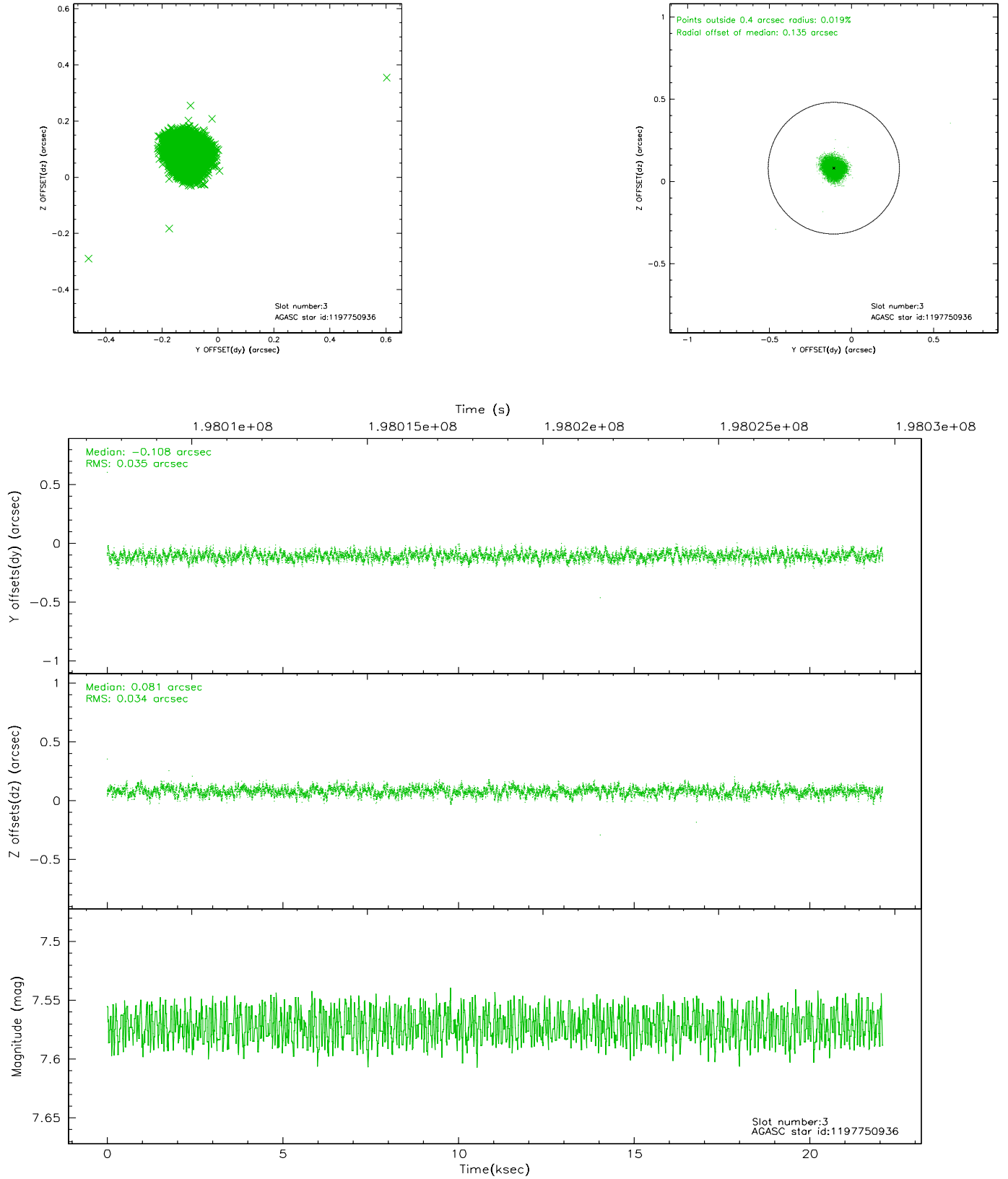
### Slot Statistics

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	5385	0.008	0.019	0.006	0.011	0.000000	0.000000	932.84	-834.68
1	FID	ACIS-I-5	7.23	5385	-0.118	0.042	0.006	0.010	0.000000	0.000000	-1815.26	1062.82
2	FID	ACIS-I-6	7.25	5384	0.019	0.010	0.007	0.011	0.000000	0.000000	398.29	1707.41
3	GUIDE	1197750936	7.57	10770	-0.108	0.081	0.052	0.080	15.387940	-71.549550	855.46	-1598.65
4	GUIDE	1197884536	8.50	10768	0.022	-0.001	0.072	0.110	17.160729	-71.835289	-1205.36	-688.82
5	GUIDE	1197884712	8.30	10768	-0.035	-0.068	0.055	0.087	16.087398	-72.252690	-94.72	874.12
6	GUIDE	1197885104	9.36	10766	0.105	-0.050	0.083	0.136	17.845067	-72.189368	-2013.61	556.70
7	GUIDE	1197885328	7.23	10768	0.017	0.038	0.055	0.085	16.283090	-71.733943	-201.20	-1003.06

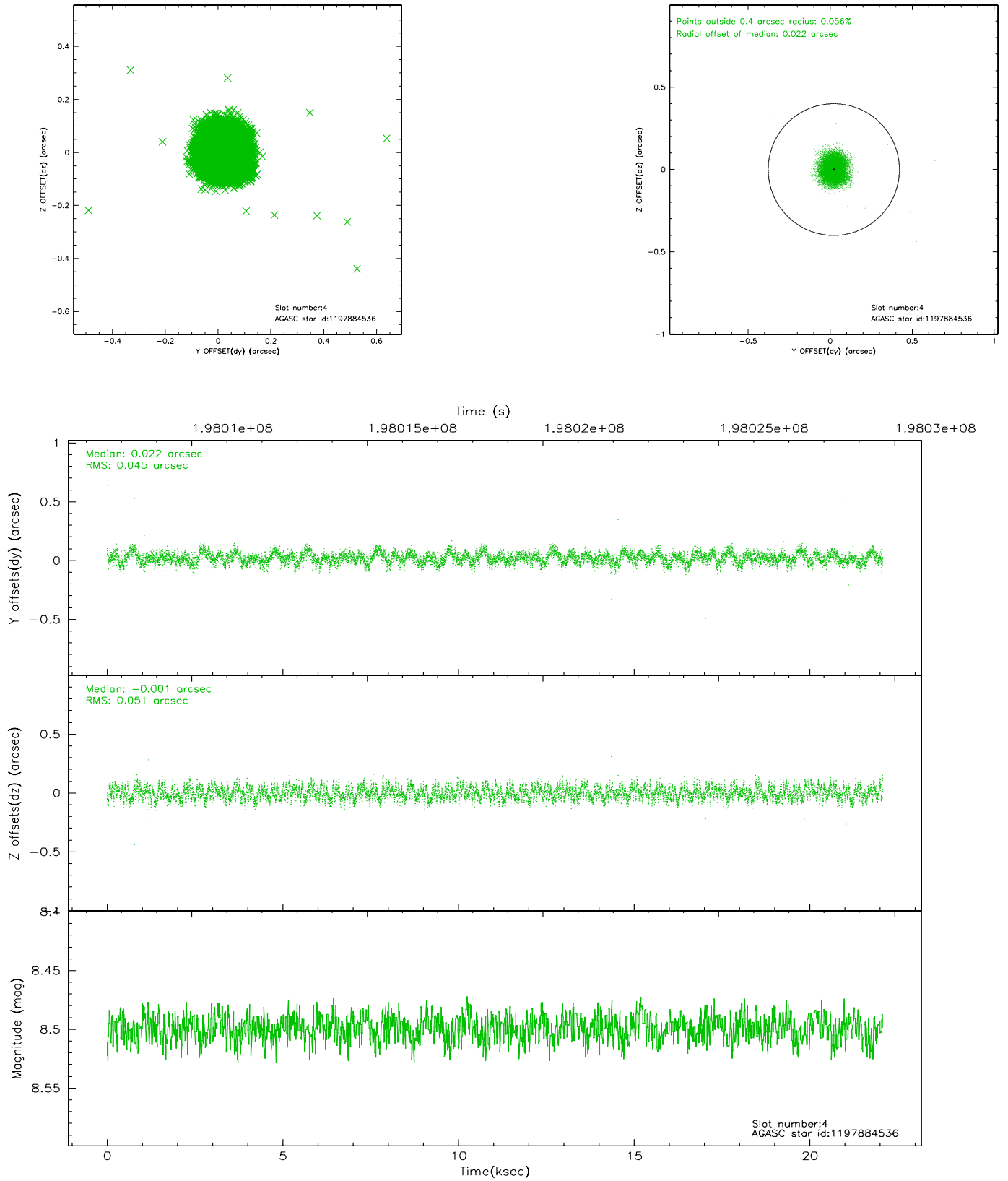


## 2.4 Star Slots

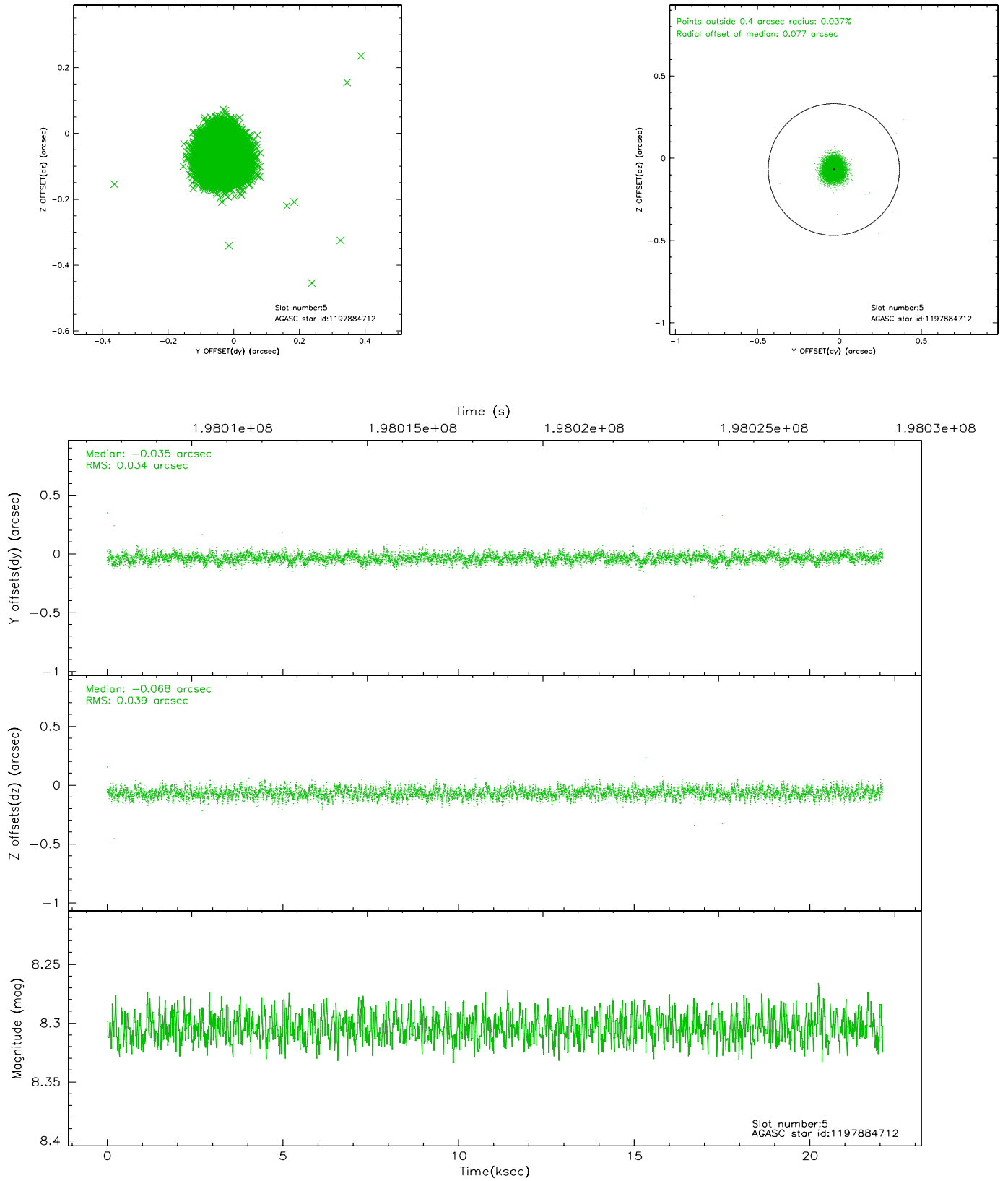
### 2.4.1 Slot 3



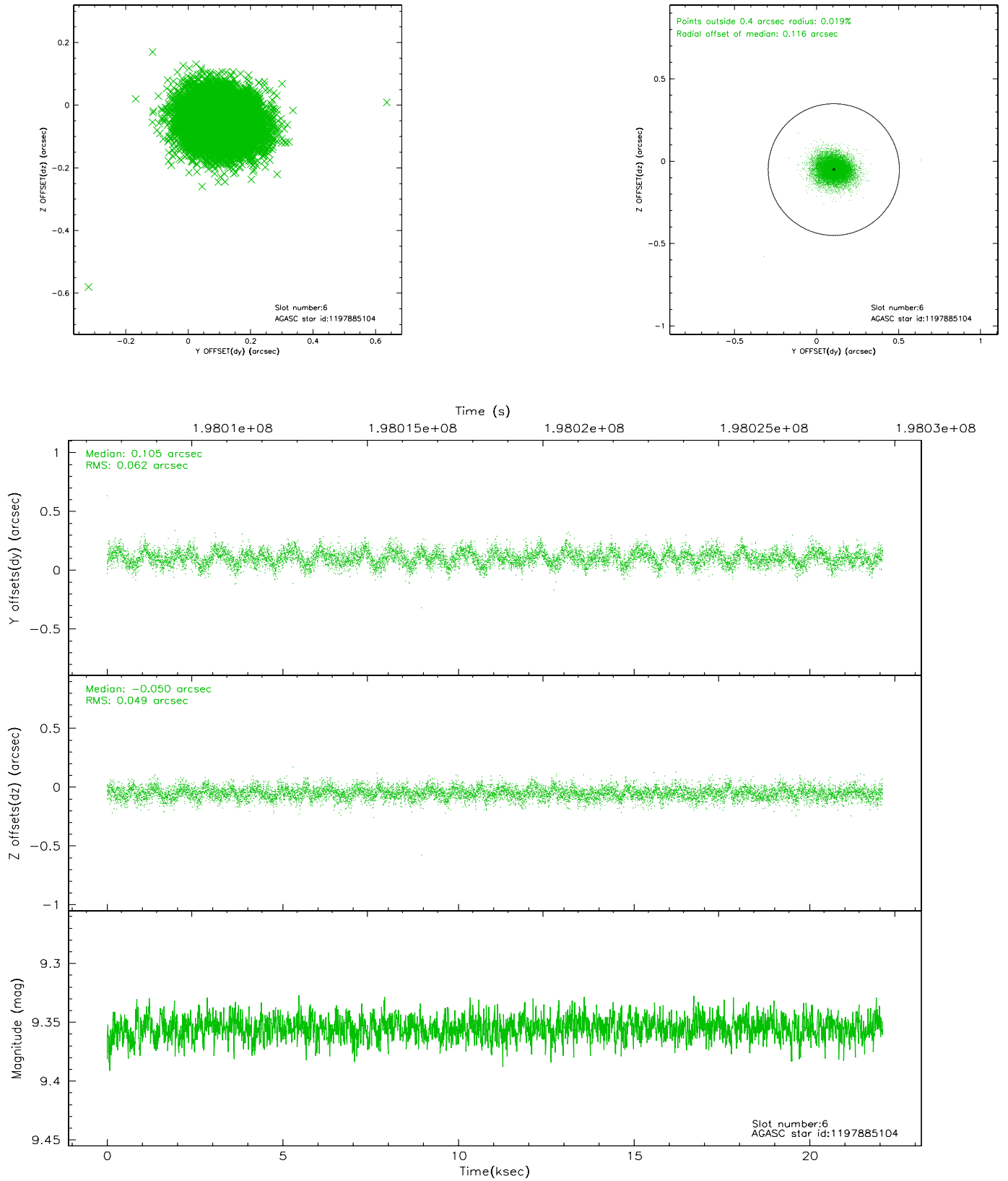
## 2.4.2 Slot 4



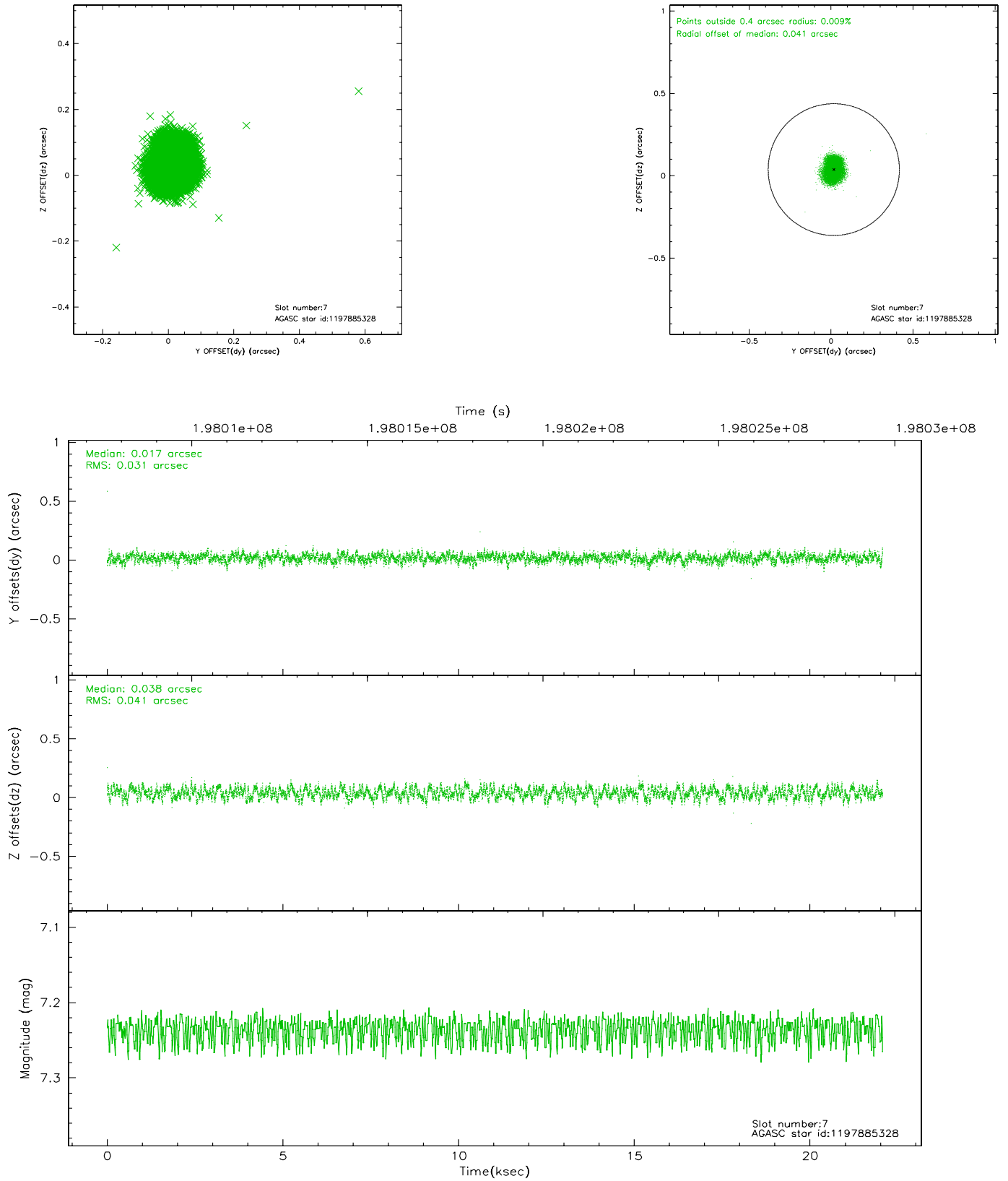
### 2.4.3 Slot 5



## 2.4.4 Slot 6

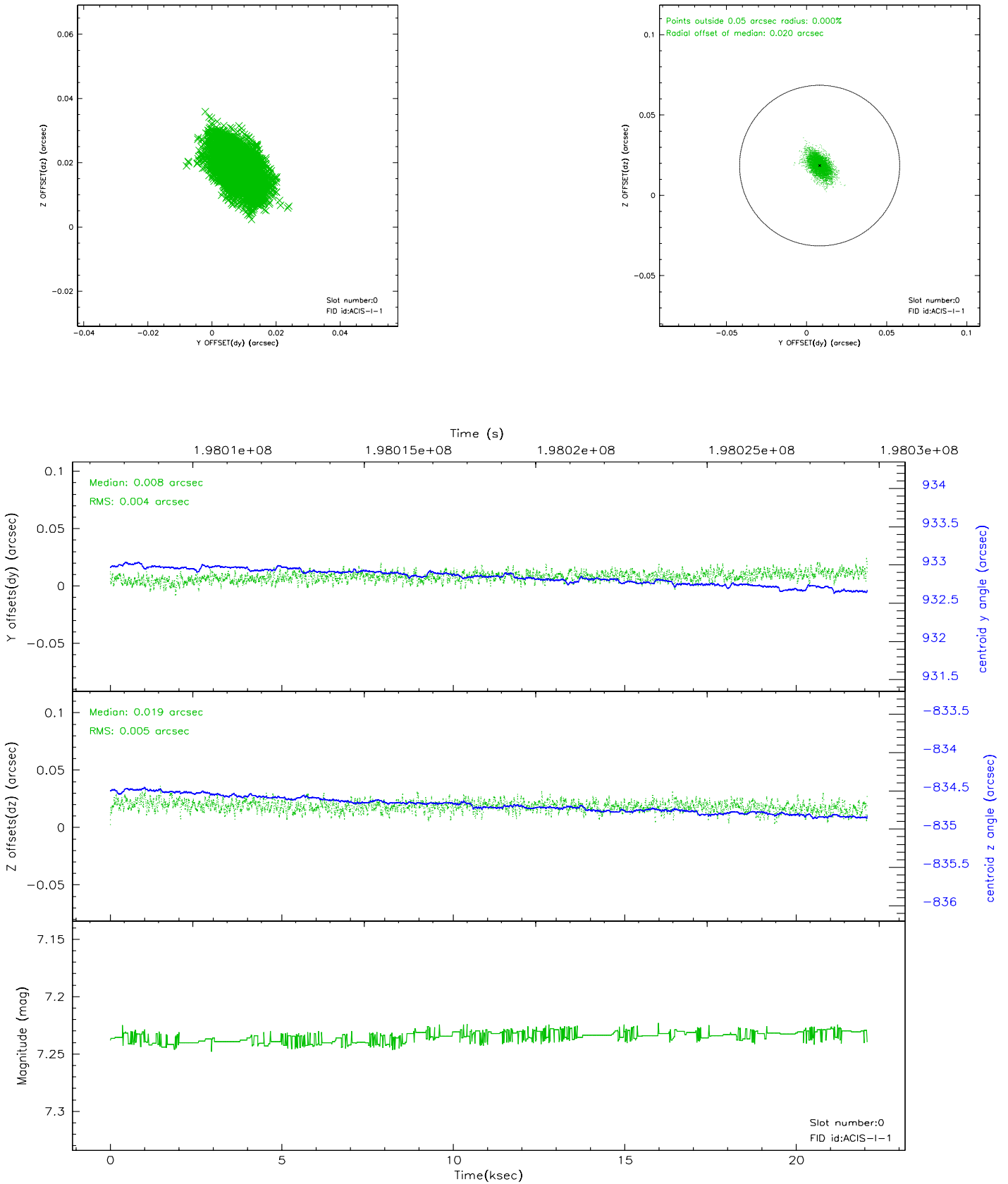


## 2.4.5 Slot 7

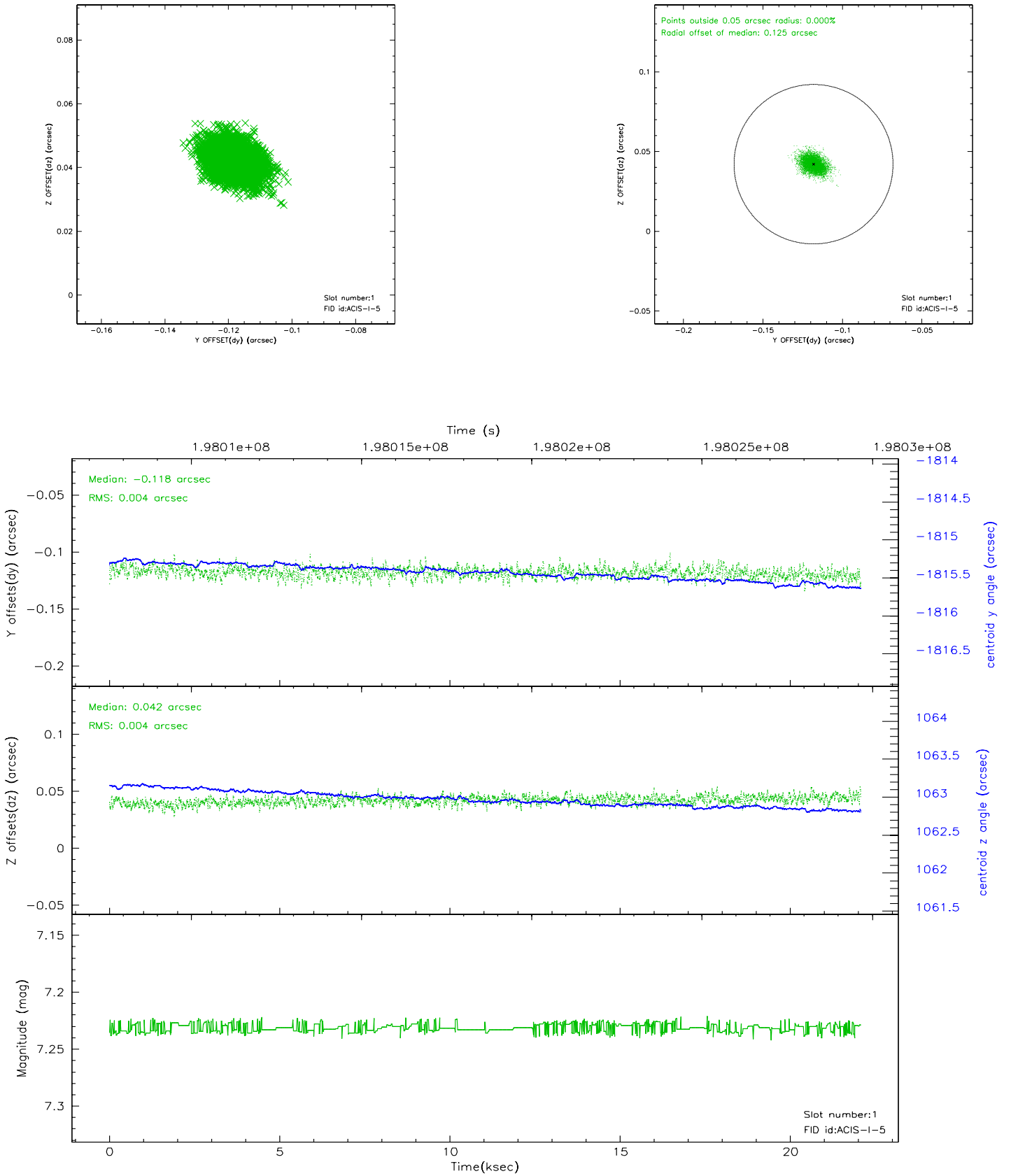


## 2.5 FID Slots

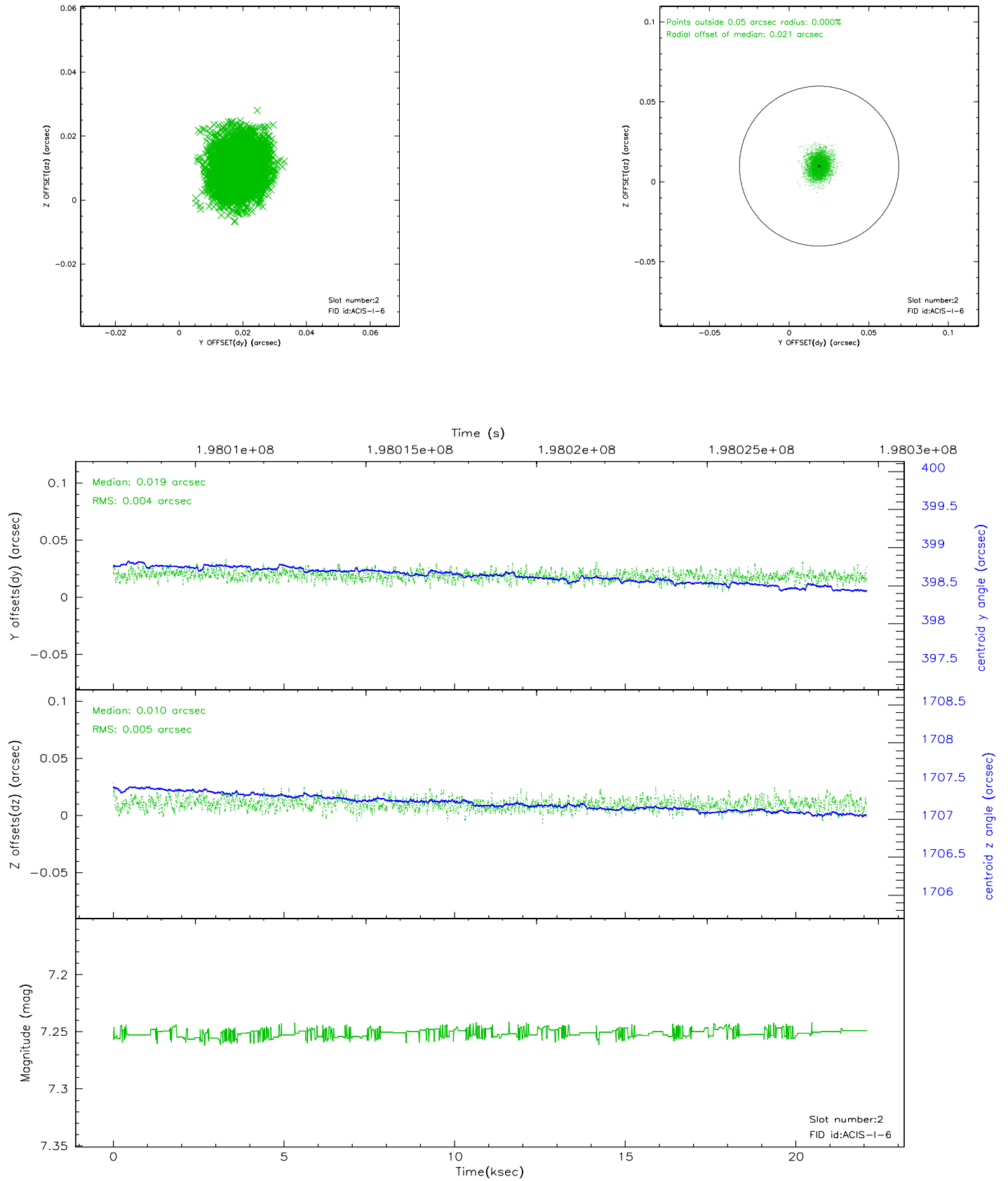
### 2.5.1 Slot 0



## 2.5.2 Slot 1

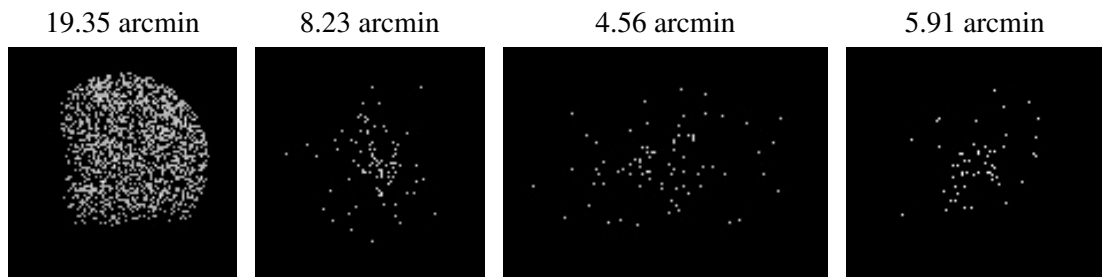


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.05.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.684

### A.2 Comments

Window constraint met.