

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3631 - L2 Version 3  
Chandra X-Ray Center

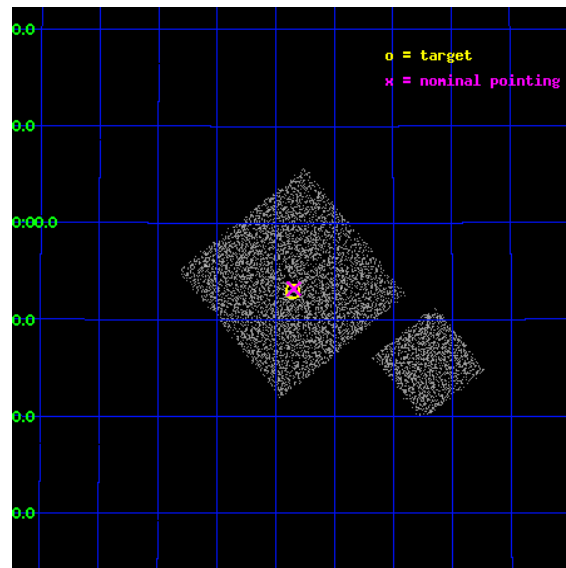
L2 Processing Date : Oct 25 2012

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# 1 Front

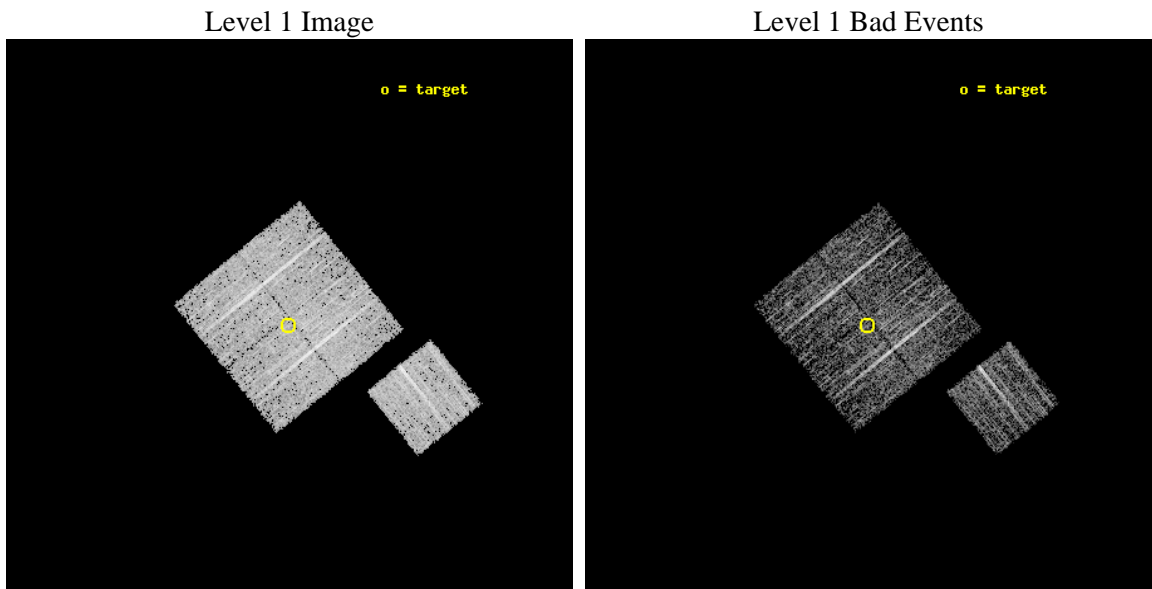
seq_num	900231	Sequence number
obs_id	3631	Observation id
title	CHANDRA LARGE SCALE SURVEY OF THE NOAO BOOTES DEEP FIELD	Proposal
observer	Dr. Stephen Murray	Principal investigator
object	NOAO FIELD F7	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.463931	Observer's specified target RA [deg]
dec_targ	34.882776	Observer's specified target Dec [deg]
ra_nom	218.46122583328	Nominal RA [deg]
dec_nom	34.886810348644	Nominal Dec [deg]
roll_nom	141.01025300731	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4671.421499759	Sum of GTIs [s]
livetime	4610.3859388141	Livetime [s]
ontime0	4674.4393798709	Sum of GTIs [s]
ontime1	4671.3394396603	Sum of GTIs [s]
ontime2	4671.3804796636	Sum of GTIs [s]
ontime3	4671.421499759	Sum of GTIs [s]
ontime6	4674.3983398676	Sum of GTIs [s]
l2events	9388	Number of level 2 events



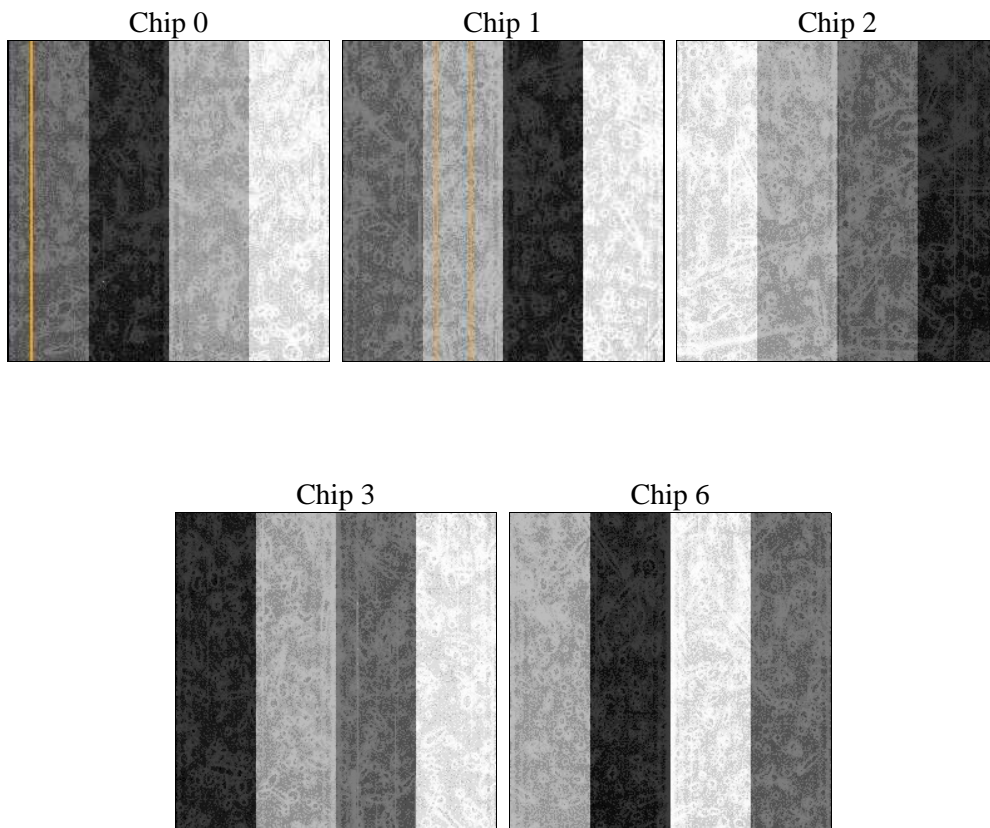
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	4900.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4671.421499759	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime0	4674.4393798709	Sum of GTIs [s]
date	2012-10-25T23:20:06	Date and time of file creation	ontime1	4671.3394396603	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	4671.3804796636	Sum of GTIs [s]
			ontime3	4671.421499759	Sum of GTIs [s]
			ontime6	4674.3983398676	Sum of GTIs [s]
			l1events	117215	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	22002	22778	25310	22159	24966
rejected events	19756	20353	23027	20035	22650
rejected %	89%	89%	90%	90%	90%

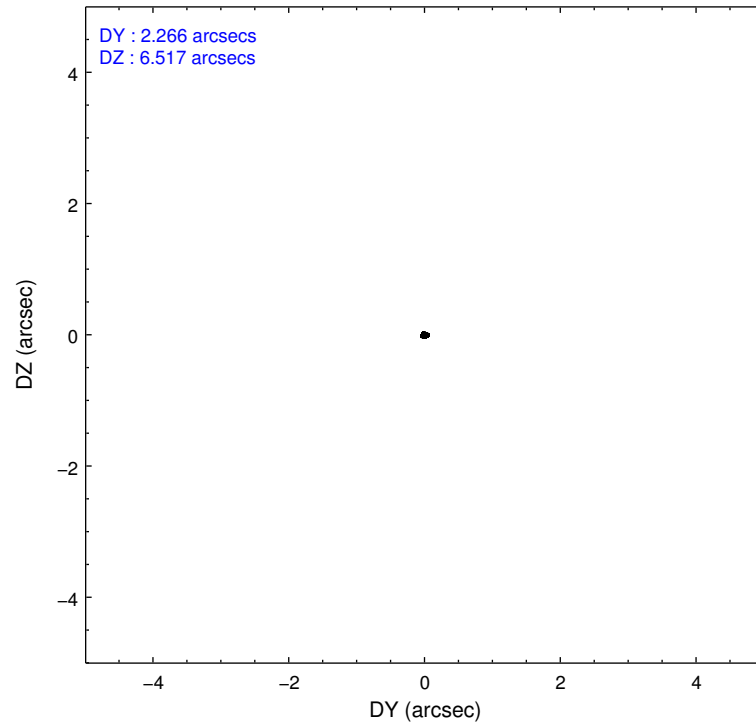
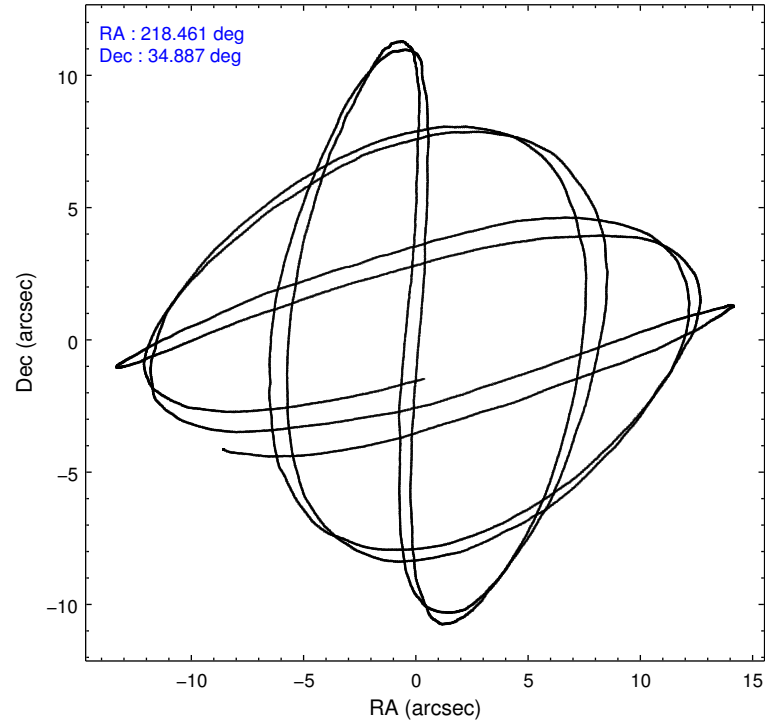
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	794	887	867	799	893
	3%	3%	3%	3%	3%
grade 1 events	12	6	10	11	9
	0%	0%	0%	0%	0%
grade 2 events	508	501	528	435	487
	2%	2%	2%	1%	1%
grade 3 events	269	285	271	248	248
	1%	1%	1%	1%	0%
grade 4 events	260	266	257	252	247
	1%	1%	1%	1%	0%
grade 5 events	666	773	680	773	781
	3%	3%	2%	3%	3%
grade 6 events	418	490	363	393	442
	1%	2%	1%	1%	1%
grade 7 events	19075	19570	22334	19248	21859
	86%	85%	88%	86%	87%

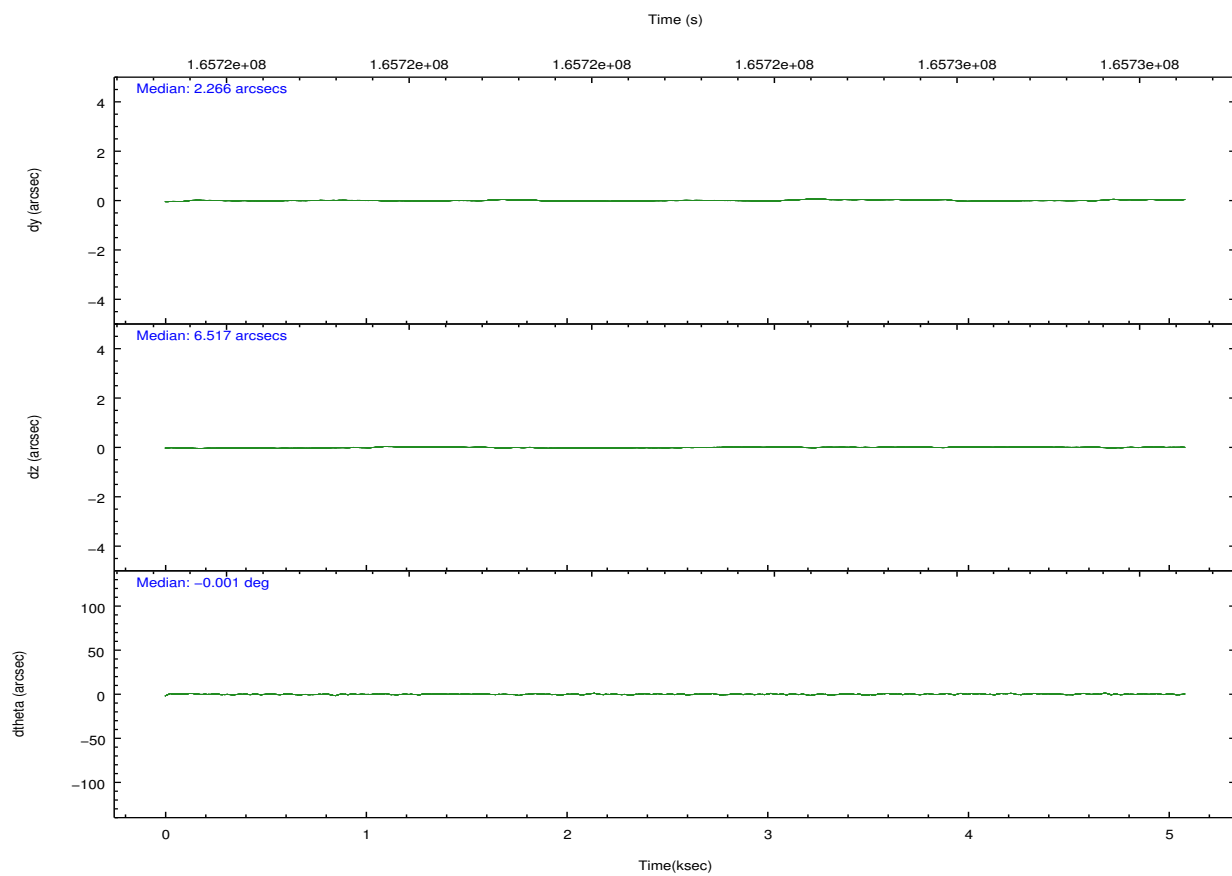
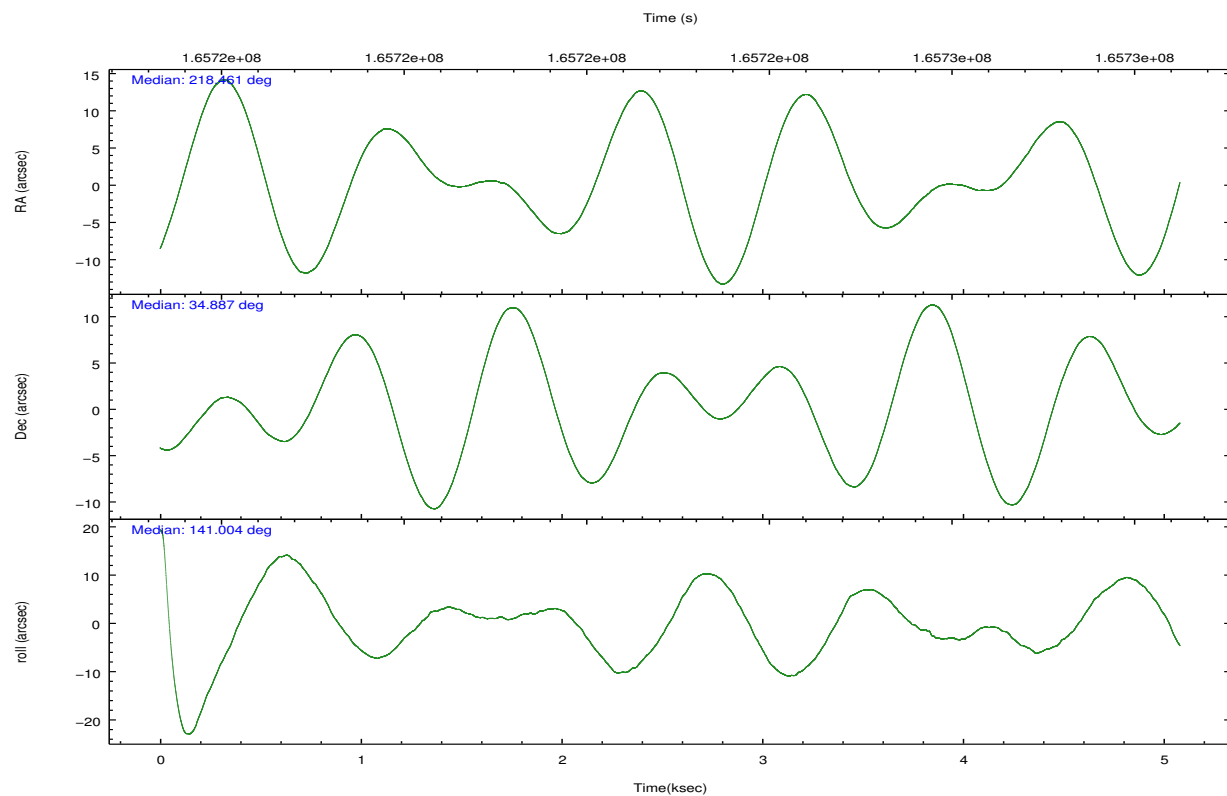


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	218.494270	218.4612258332756	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.882698	34.88681034864408	Alternating exposures requested	N	N
[deg] Pointing Roll	140.782651	141.0102530073139	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	165722097.184000	165721721.7014			
Observation start date	2003-04-03T01:53:53	2003-04-03T01:48:41			
[s] Observation end time (MET)	165726997.184000	165727132.16413			
Observation end date	2003-04-03T03:15:33	2003-04-03T03:18:52			
Read mode	TIMED	TIMED			

## 2.3 Aspect



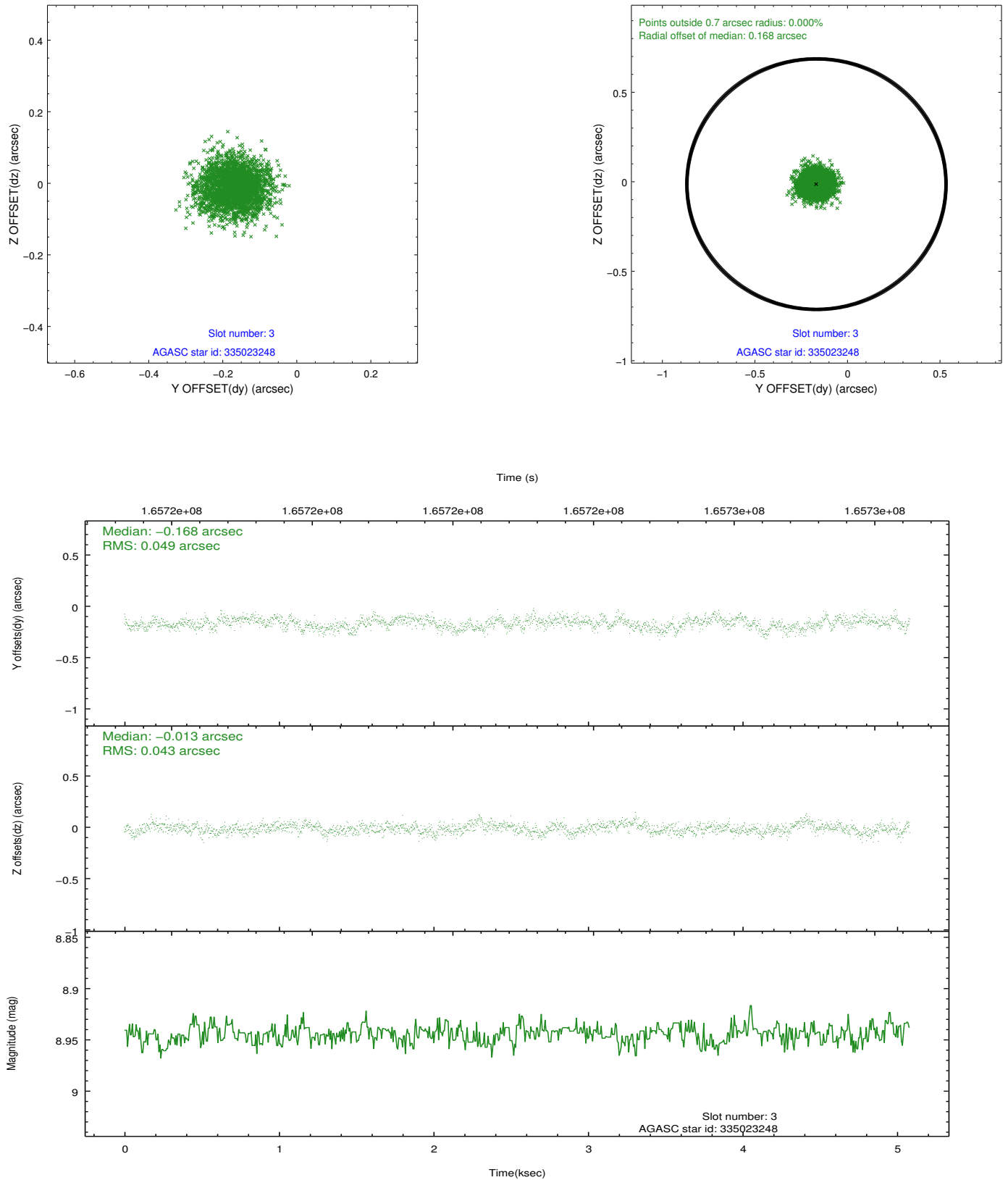


### Slot Statistics

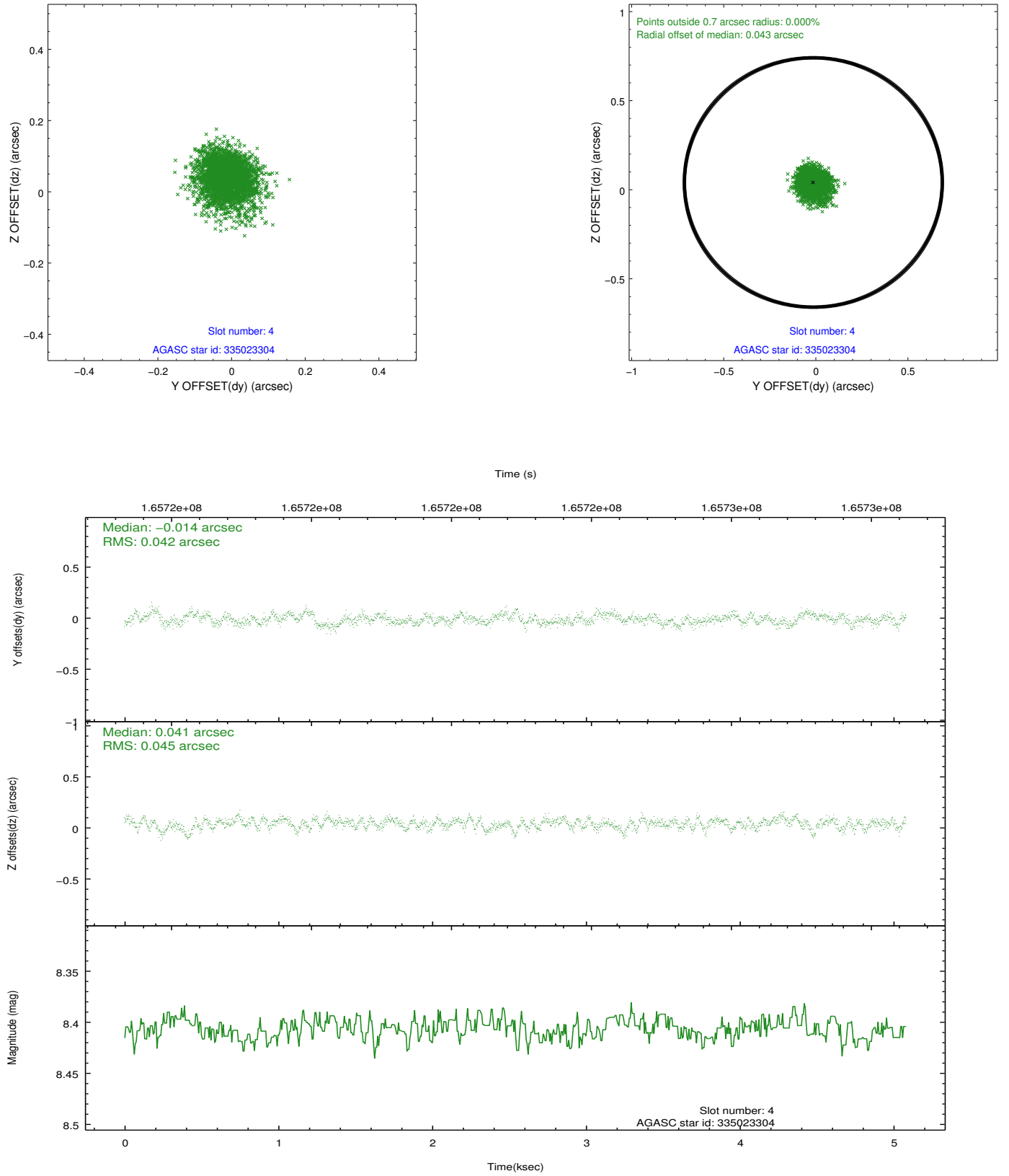
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	1239	0.008	-0.003	0.006	0.010	0.000000	0.000000	937.53	-829.91
1	FID	ACIS-I-5	7.24	1239	-0.074	0.049	0.006	0.010	0.000000	0.000000	-1809.95	1067.09
2	FID	ACIS-I-6	7.26	1240	-0.025	0.024	0.006	0.010	0.000000	0.000000	401.80	1712.88
3	GUIDE	335023248	8.94	2479	-0.168	-0.013	0.069	0.110	217.634832	34.944512	2112.18	1422.95
4	GUIDE	335023304	8.41	2479	-0.014	0.041	0.065	0.108	218.883608	34.686545	-1337.11	-182.82
5	GUIDE	335025040	9.91	2476	0.163	-0.014	0.145	0.239	218.601670	34.305240	-1562.25	1408.34
6	GUIDE	335152968	9.77	2478	0.032	-0.010	0.091	0.149	219.446087	34.867883	-2203.97	-1746.16
7	GUIDE	335414336	8.96	2477	-0.021	0.006	0.086	0.136	218.979022	35.090910	-630.94	-1486.96

## 2.4 Star Slots

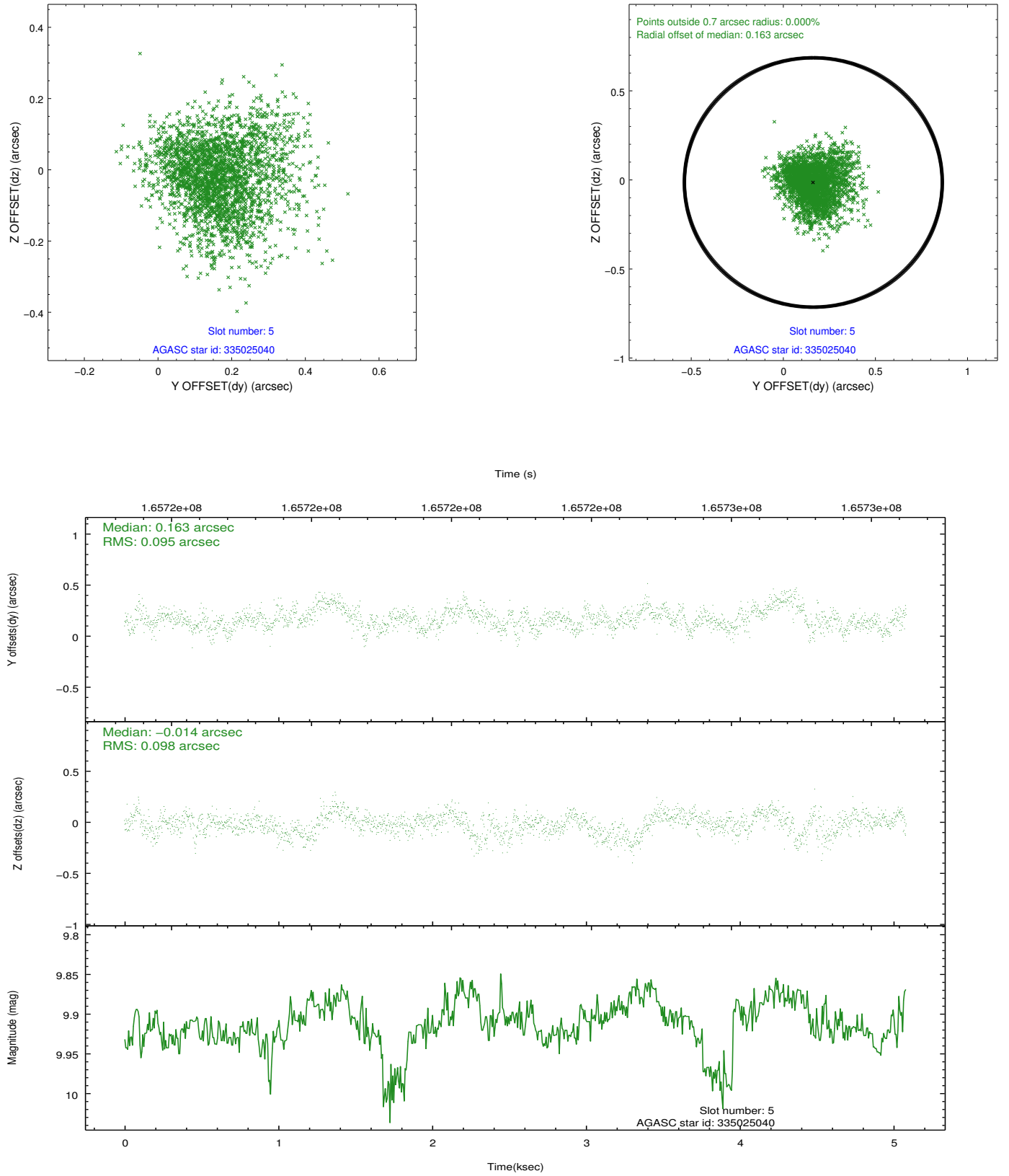
### 2.4.1 Slot 3



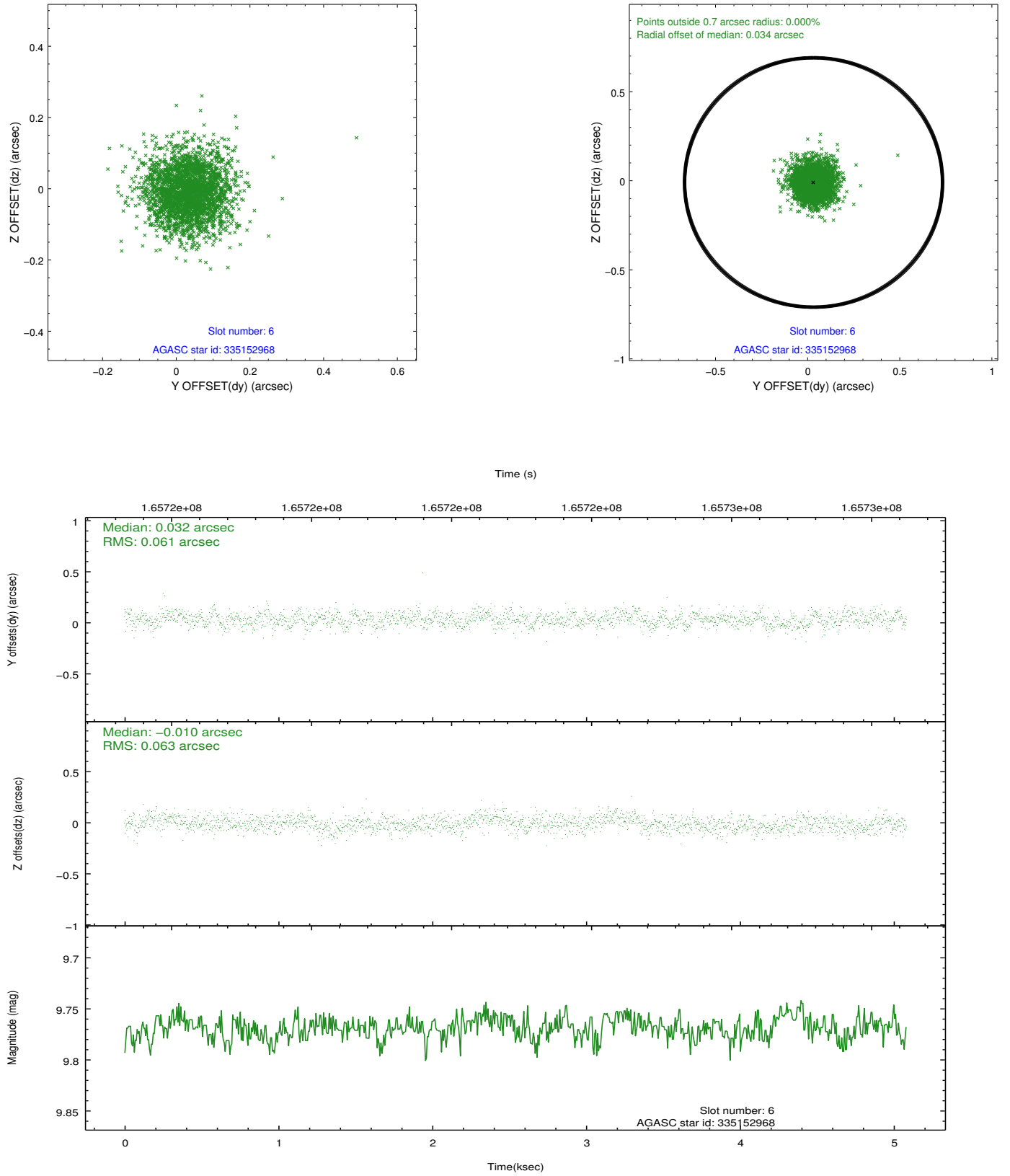
## 2.4.2 Slot 4



### 2.4.3 Slot 5

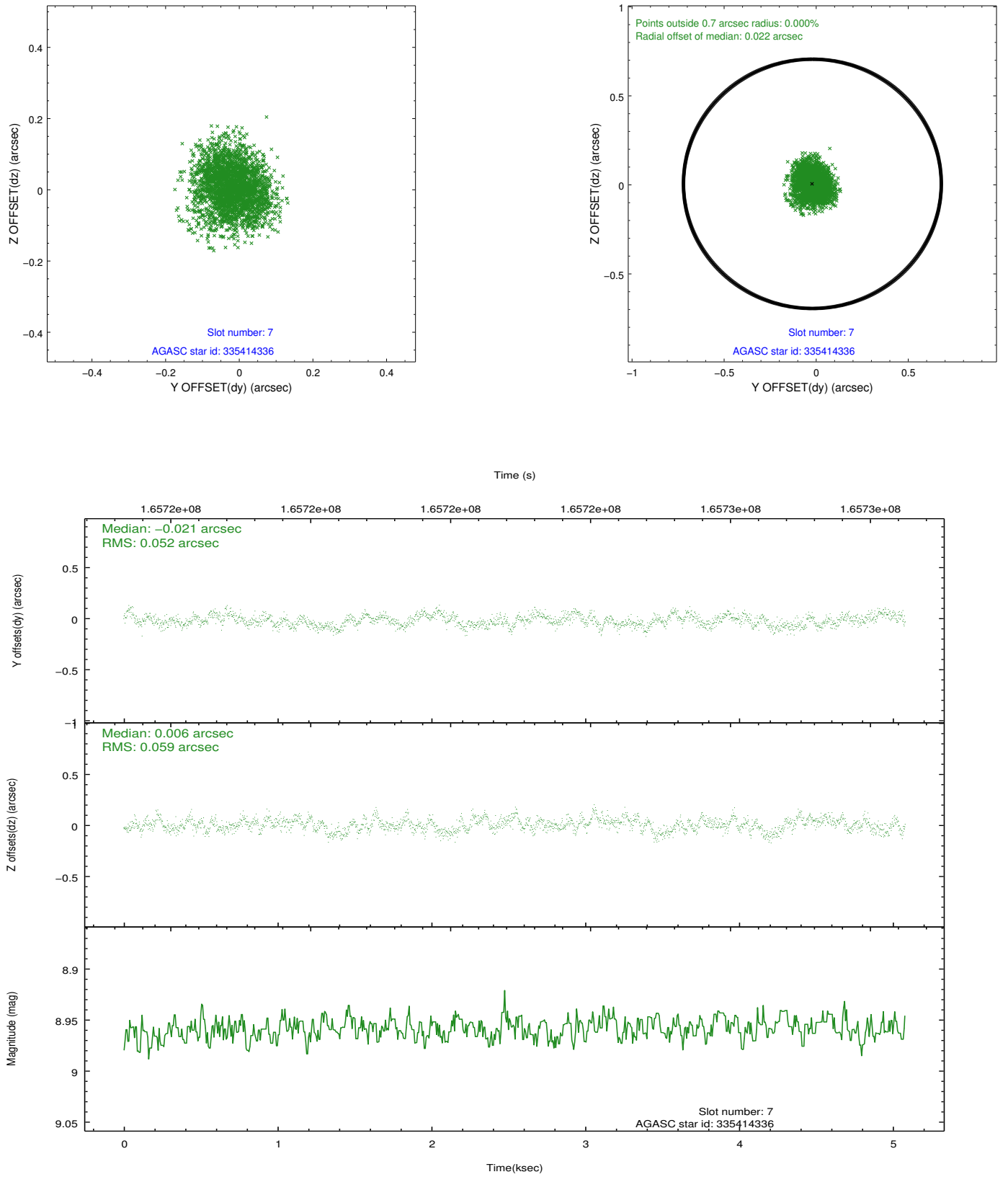


## 2.4.4 Slot 6



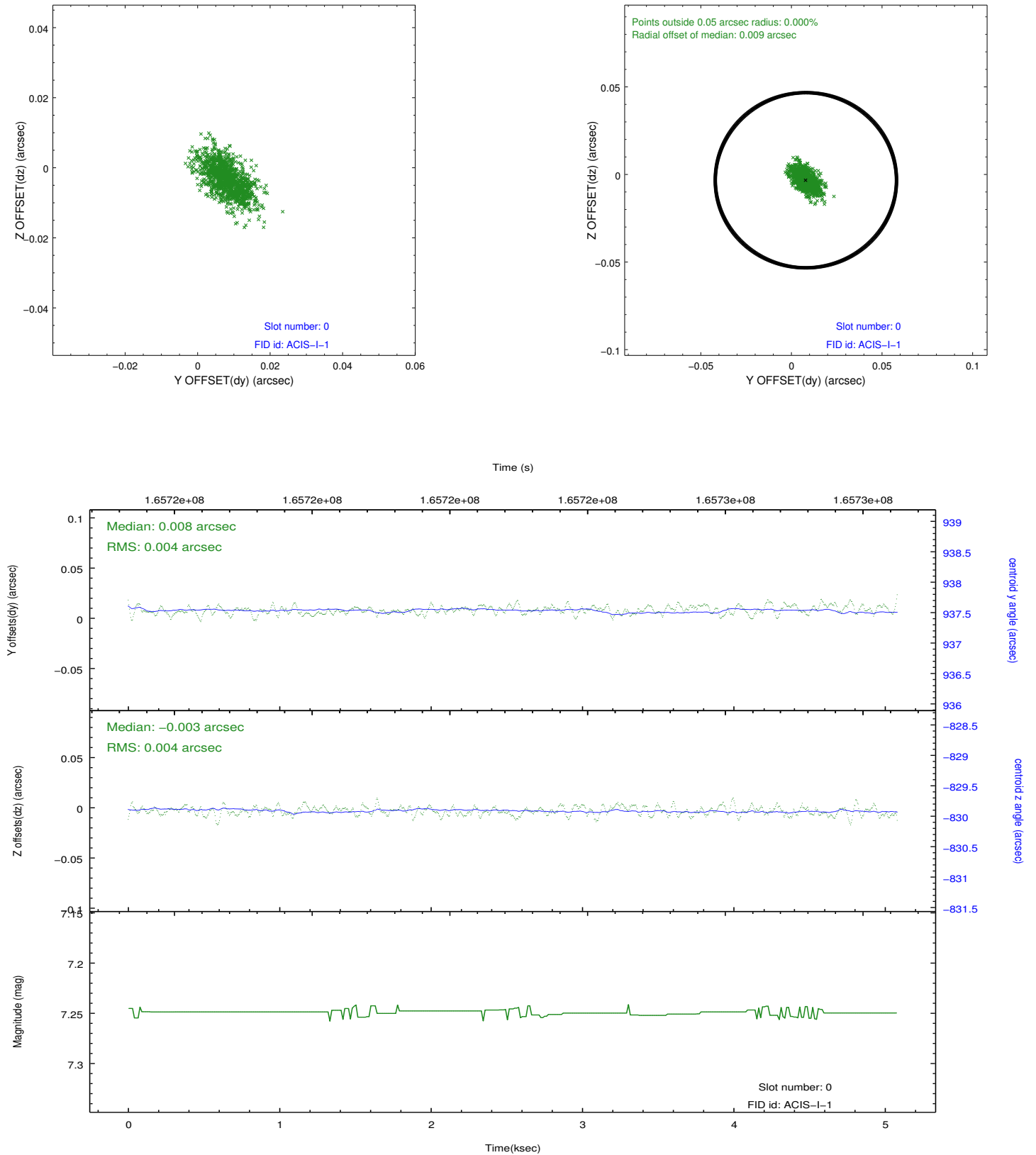


## 2.4.5 Slot 7

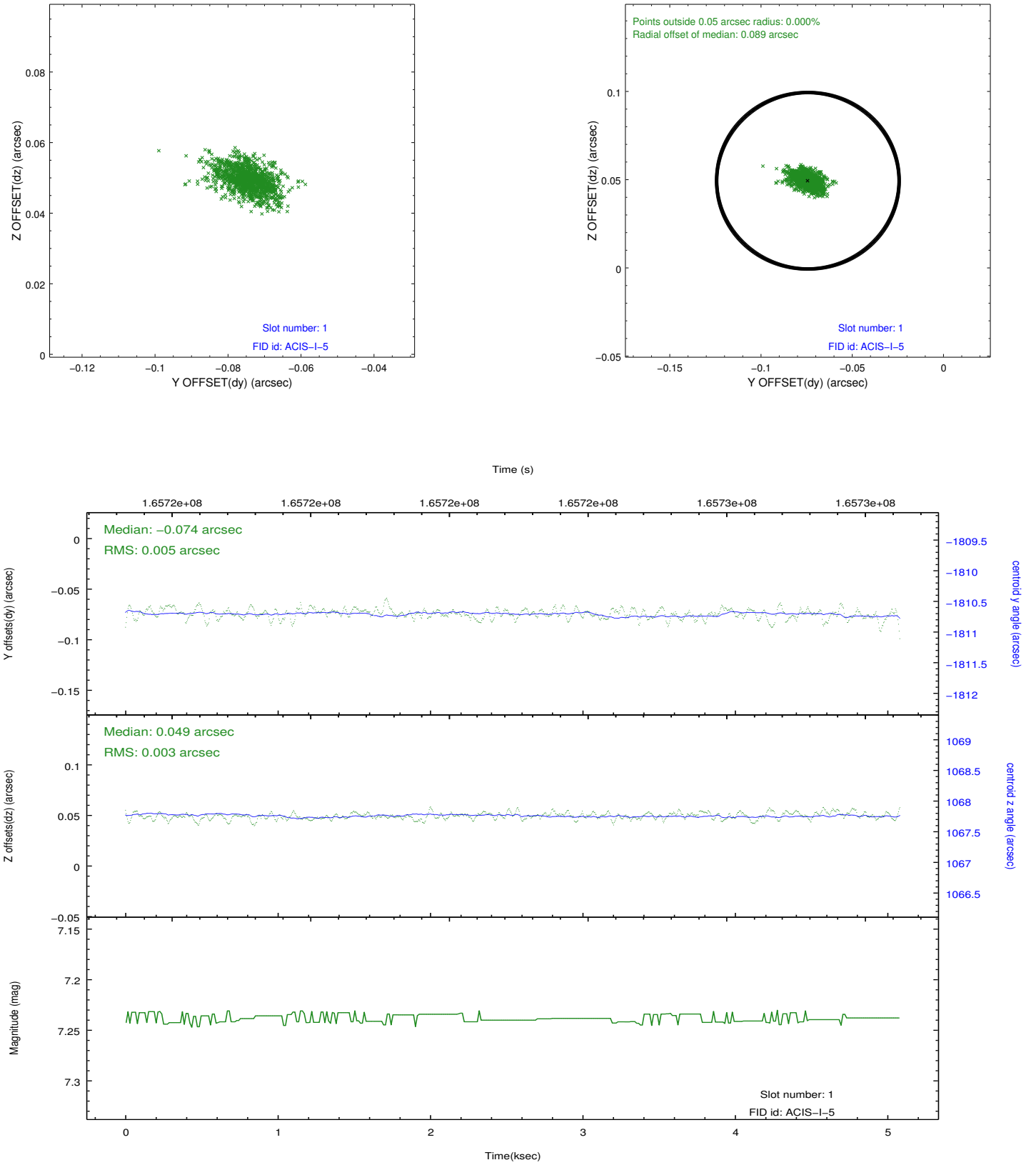


## 2.5 FID Slots

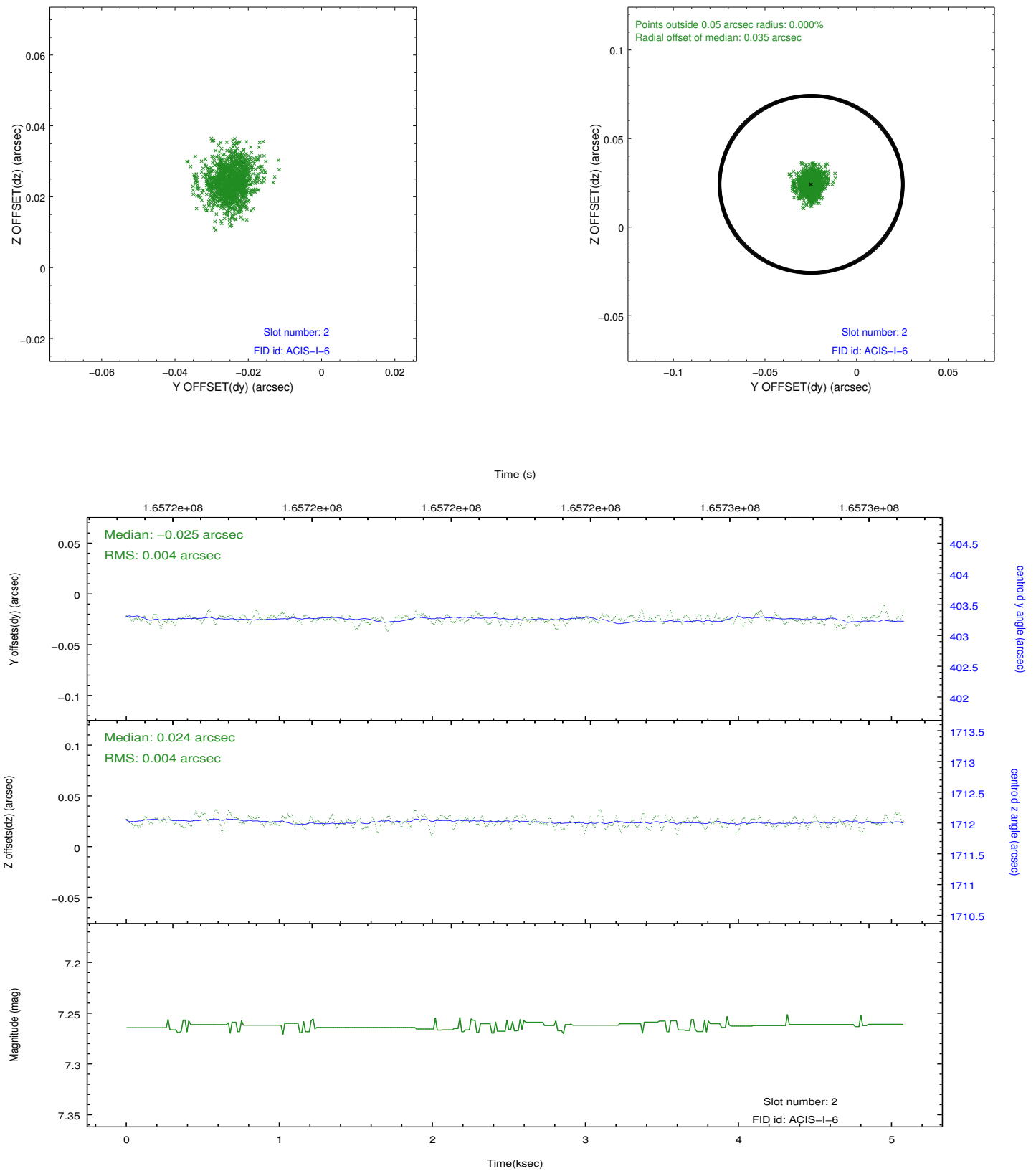
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.11.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.671

### A.2 Comments