

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3310 - L2 Version 3  
Chandra X-Ray Center

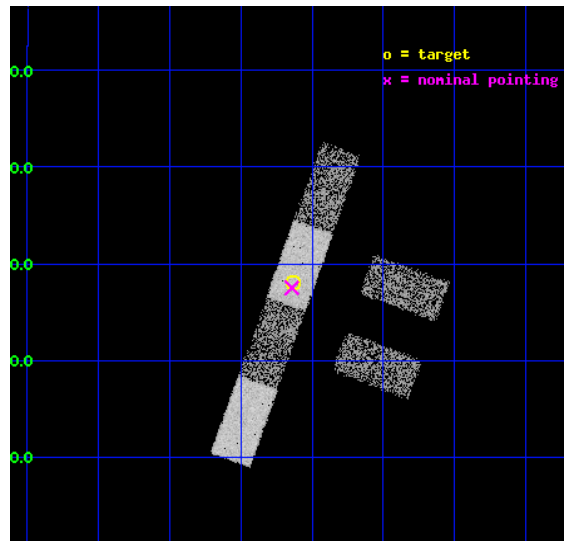
L2 Processing Date : Oct 2 2012

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# 1 Front

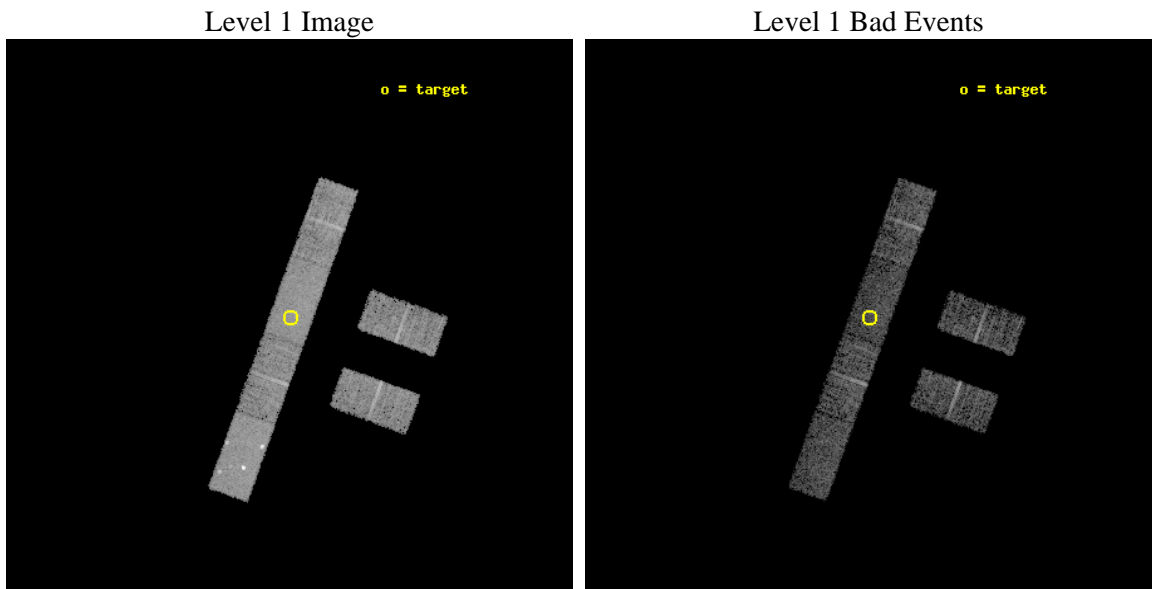
seq_num	900149	Sequence number
obs_id	3310	Observation id
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?	&#160
observer	Prof Kirpal Nandra	Principal investigator
object	AX J0140.1+0628	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	25.03375	Observer's specified target RA [deg]
dec_targ	6.468278	Observer's specified target Dec [deg]
ra_nom	25.035329354191	Nominal RA [deg]
dec_nom	6.4586708255033	Nominal Dec [deg]
roll_nom	289.8457453597	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5402.8848294169	Sum of GTIs [s]
livetime	5282.4450815574	Livetime [s]
ontime2	5402.9258694202	Sum of GTIs [s]
ontime3	5402.7617094219	Sum of GTIs [s]
ontime5	5402.8437894136	Sum of GTIs [s]
ontime6	5402.8027494252	Sum of GTIs [s]
ontime7	5402.8848294169	Sum of GTIs [s]
ontime8	5402.7206694186	Sum of GTIs [s]
l2events	31957	Number of level 2 events



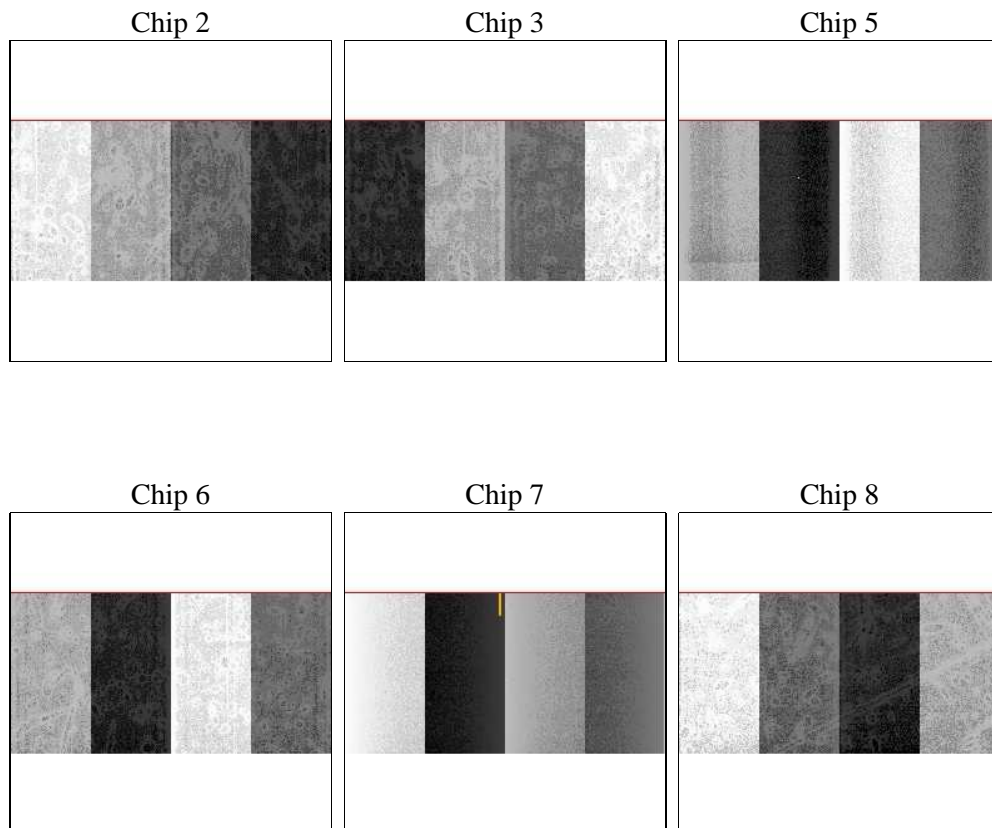
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5402.8848294169	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	5402.9258694202	Sum of GTIs [s]
date	2012-10-02T05:15:38	Date and time of file creation	ontime3	5402.7617094219	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5402.8437894136	Sum of GTIs [s]
			ontime6	5402.8027494252	Sum of GTIs [s]
			ontime7	5402.8848294169	Sum of GTIs [s]
			ontime8	5402.7206694186	Sum of GTIs [s]
			l1events	138824	Number of level 1 events

### 2.1.4 Events

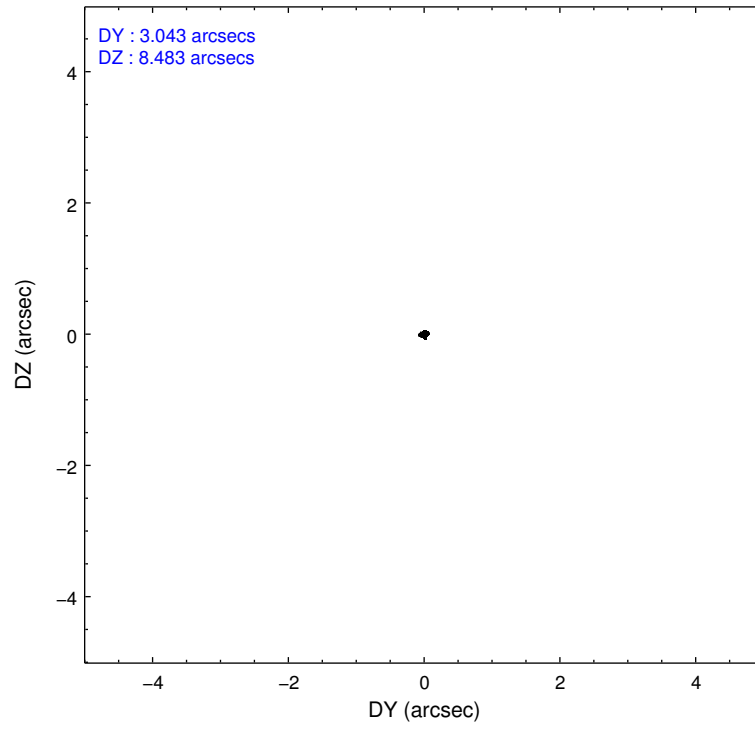
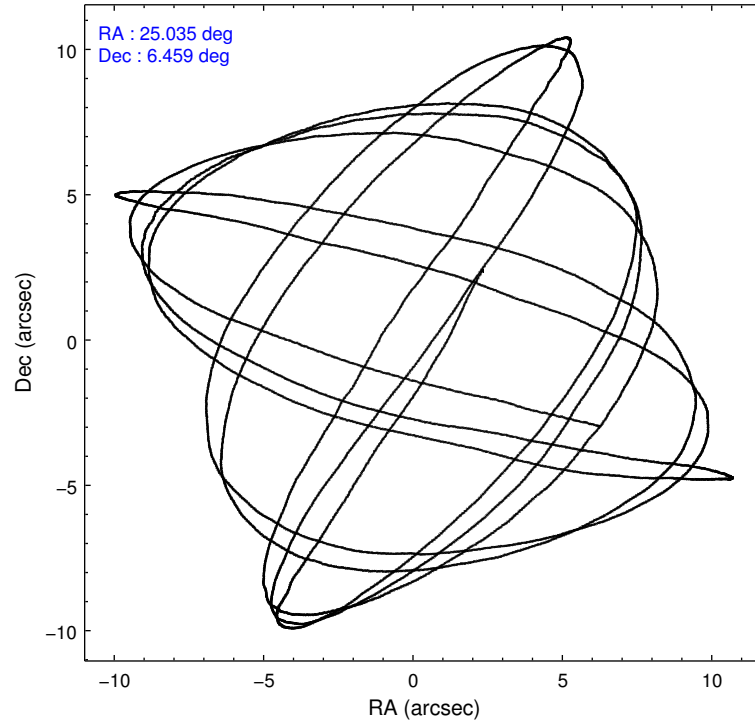
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	19229	18411	32298	20236	25313	23337	grade 0 events	960	901	6250	923	1200	1410
rejected events	16889	16228	14180	17970	13596	18870		4%	4%	19%	4%	4%	6%
rejected %	87%	88%	43%	88%	53%	80%	grade 1 events	6	10	56	6	8	14
								0%	0%	0%	0%	0%	0%
							grade 2 events	467	439	3829	429	2358	891
								2%	2%	11%	2%	9%	3%
							grade 3 events	275	264	747	256	1099	516
								1%	1%	2%	1%	4%	2%
							grade 4 events	245	249	674	258	1113	490
								1%	1%	2%	1%	4%	2%
							grade 5 events	700	703	2120	748	2303	902
								3%	3%	6%	3%	9%	3%
							grade 6 events	393	331	6622	400	5951	1160
								2%	1%	20%	1%	23%	4%
							grade 7 events	16183	15514	12000	17216	11281	17954
								84%	84%	37%	85%	44%	76%

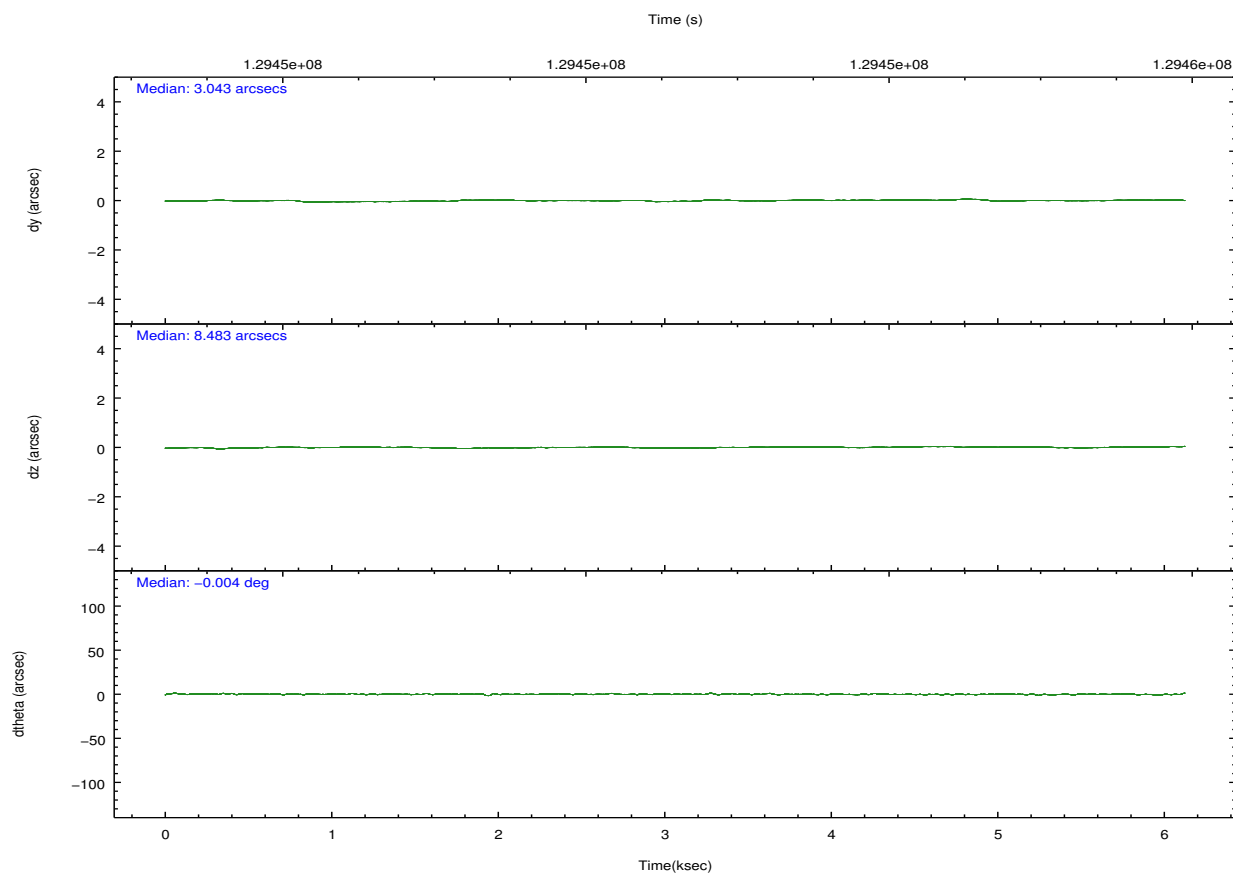
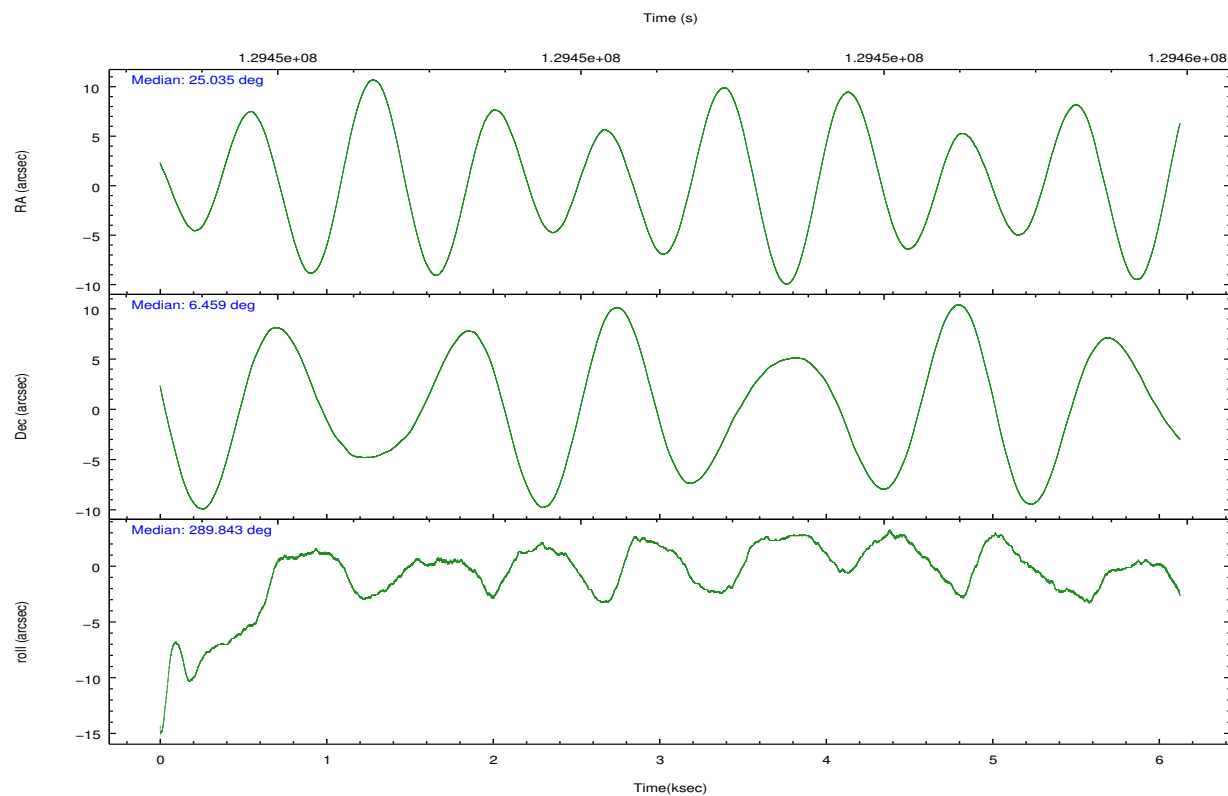


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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
[deg] Pointing RA	25.014213	25.0353293541906	Subarray requested	CUSTOM	1/2
[deg] Pointing Dec	6.476030	6.458670825503271	Subarray start row	257	257
[deg] Pointing Roll	289.691500	289.8457453596953	Subarray row count	512	512
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	1.8
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	129450651.184000	129449225.20391			
Observation start date	2002-02-07T06:29:47	2002-02-07T06:07:05			
[s] Observation end time (MET)	129455651.184000	129455996.86668			
Observation end date	2002-02-07T07:53:07	2002-02-07T07:59:56			
Read mode	TIMED	TIMED			

## 2.3 Aspect



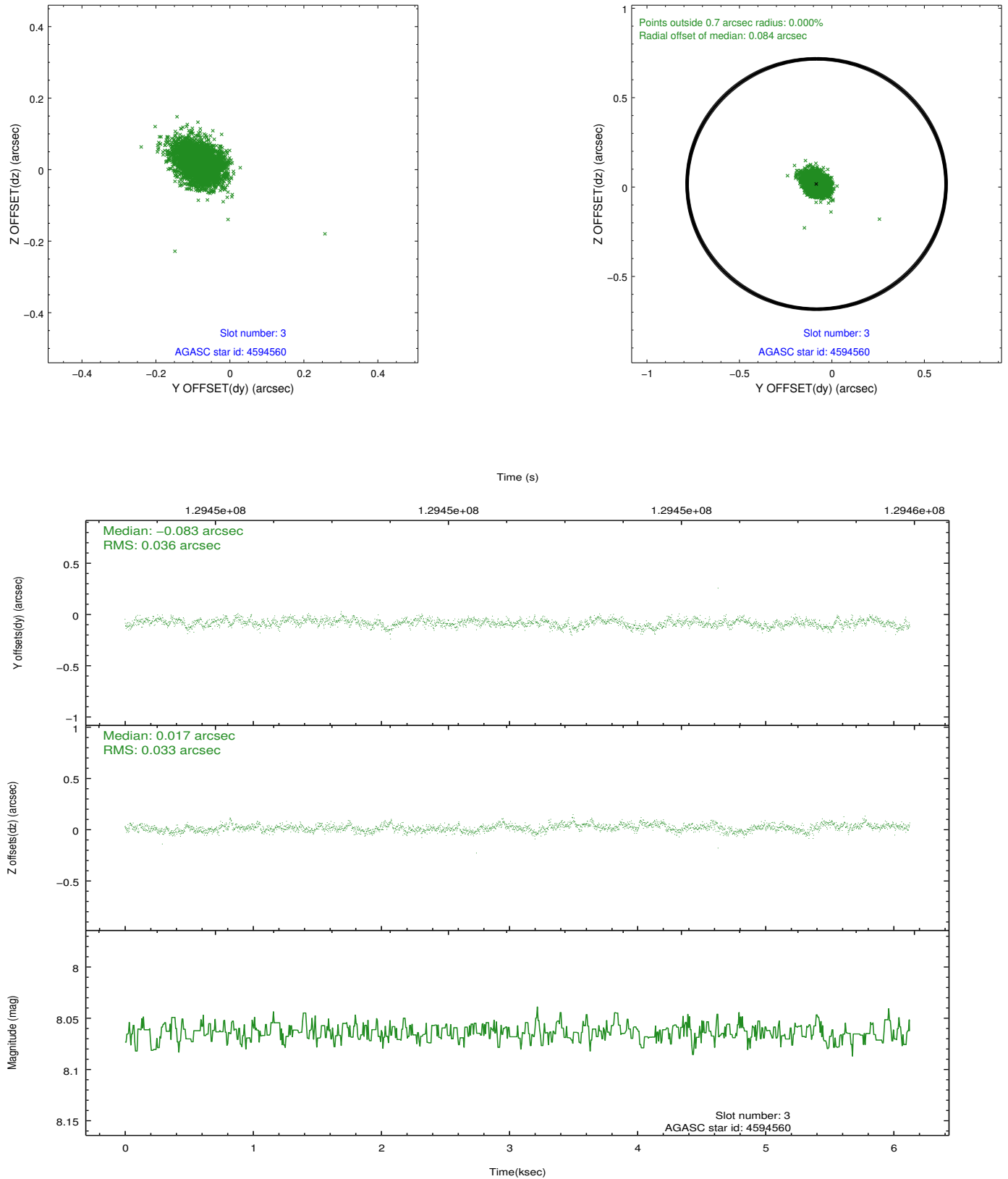


Slot Statistics

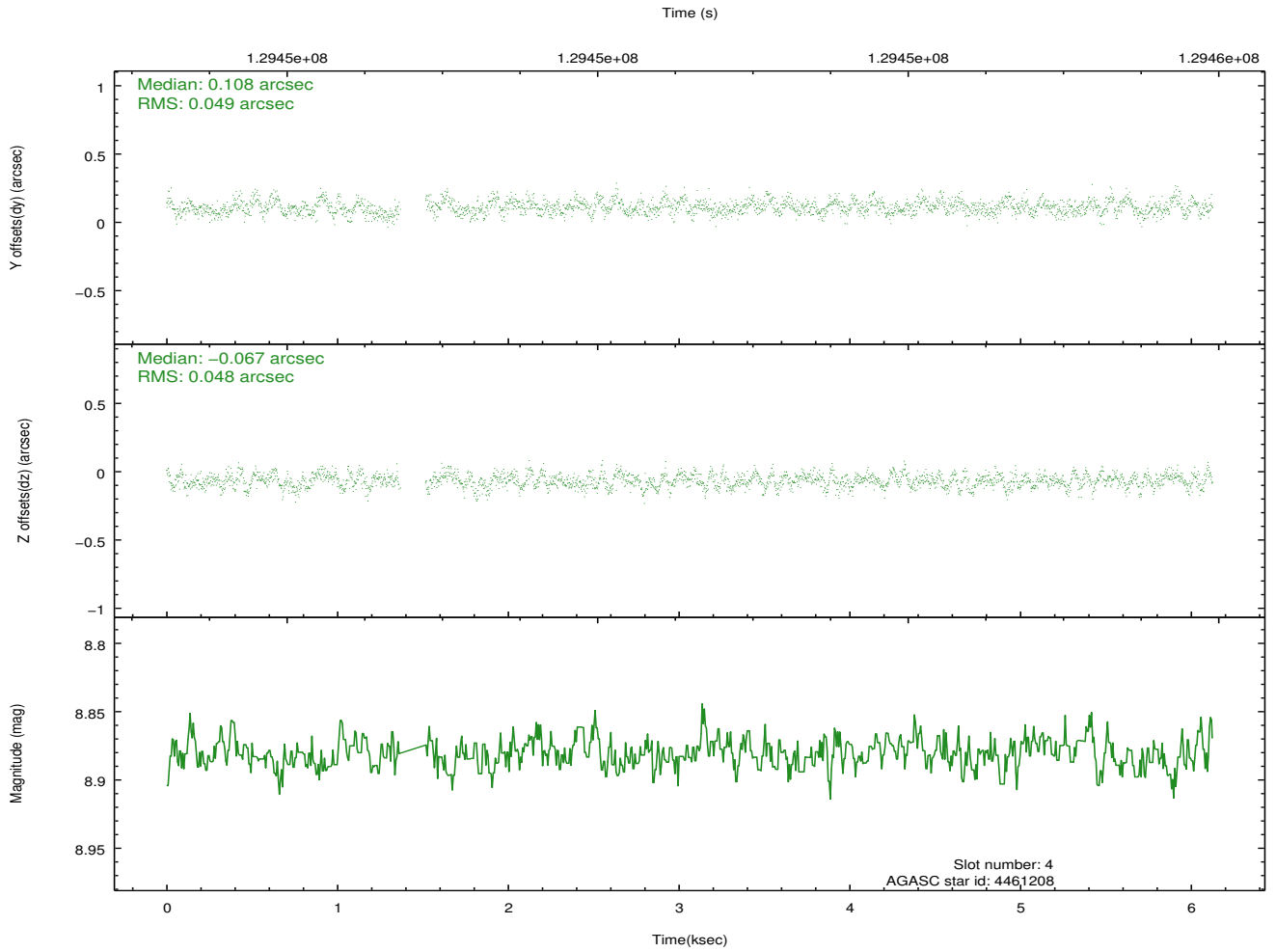
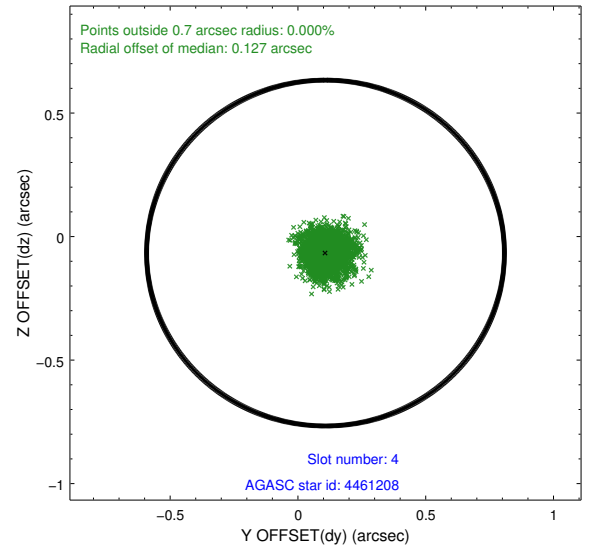
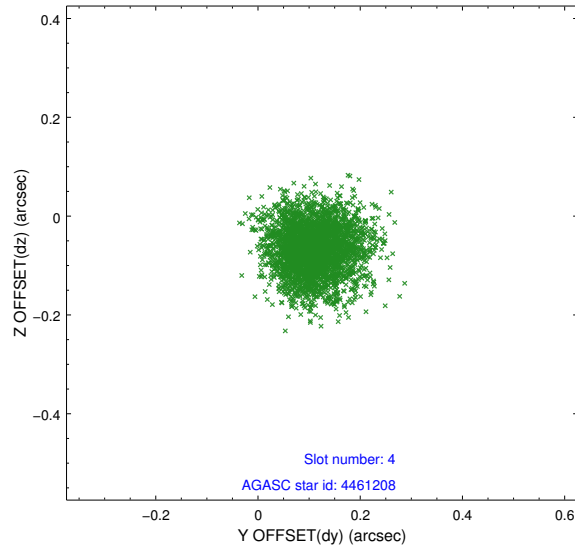
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1494	-0.006	-0.004	0.006	0.010	0.000000	0.000000	-755.69	-1729.64
1	FID	ACIS-S-4	7.20	1494	-0.038	0.004	0.005	0.010	0.000000	0.000000	2157.12	177.85
2	FID	ACIS-S-5	7.24	1494	0.013	0.009	0.007	0.011	0.000000	0.000000	-1807.27	172.63
3	GUIDE	4594560	8.06	2989	-0.083	0.017	0.051	0.082	25.098147	7.086581	-1968.45	1023.09
4	GUIDE	4461208	8.88	2912	0.108	-0.067	0.073	0.118	24.998304	5.758034	2414.15	-924.03
5	GUIDE	4590488	9.14	2988	0.025	0.068	0.071	0.115	25.449436	6.532035	334.96	1533.71
6	GUIDE	4589688	9.68	2949	-0.081	-0.037	0.094	0.150	25.023856	6.948308	-1588.94	606.02
7	GUIDE	4589792	9.56	2985	0.038	0.018	0.110	0.183	25.432430	7.012357	-1315.45	2058.12

## 2.4 Star Slots

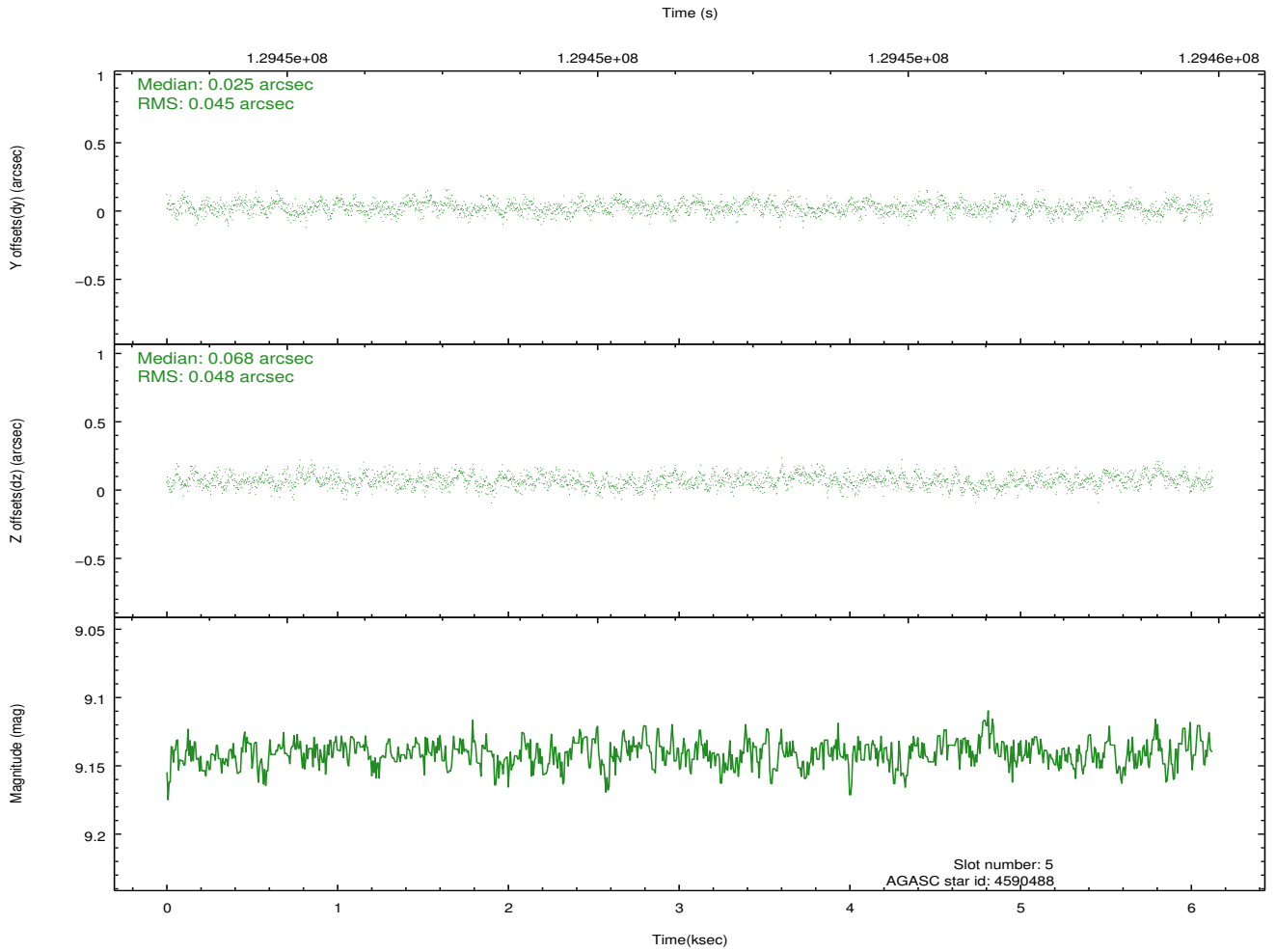
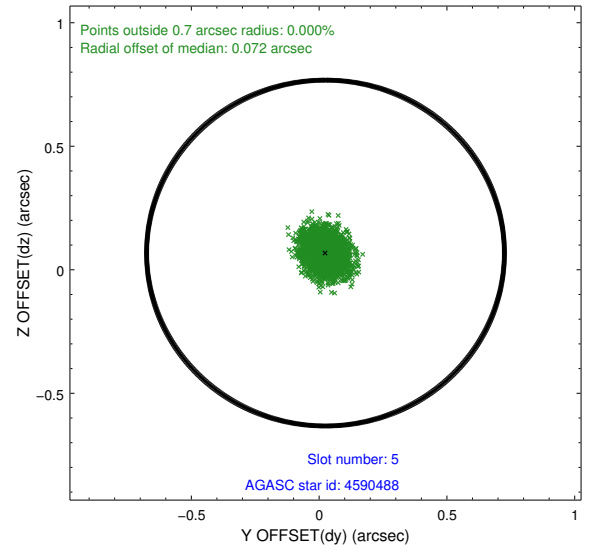
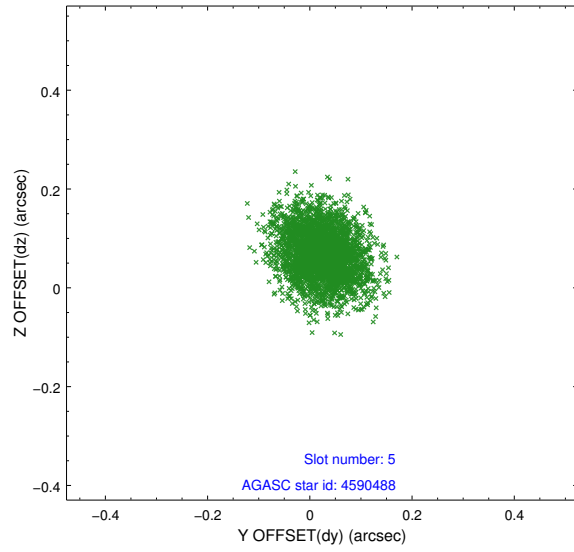
### 2.4.1 Slot 3



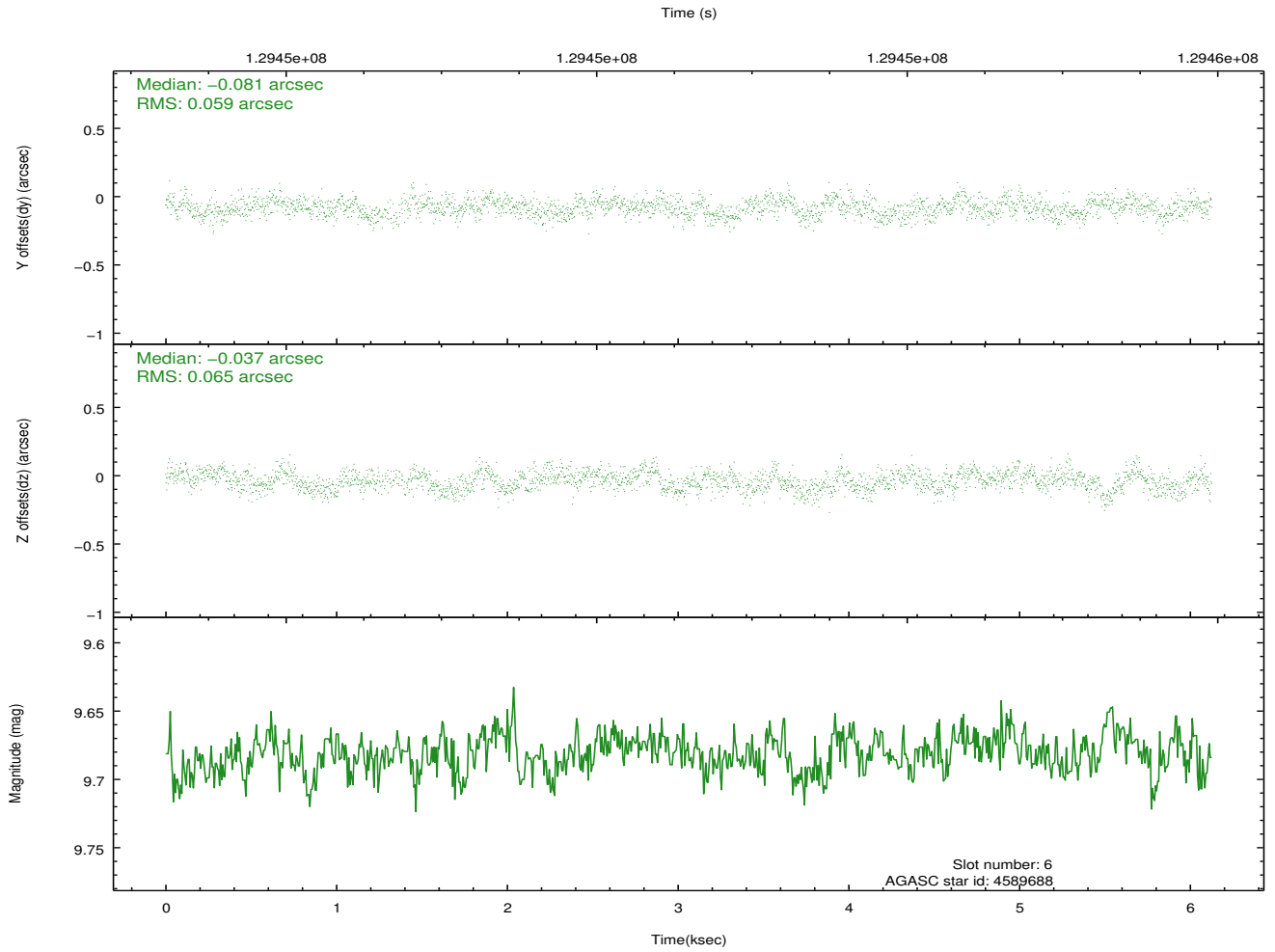
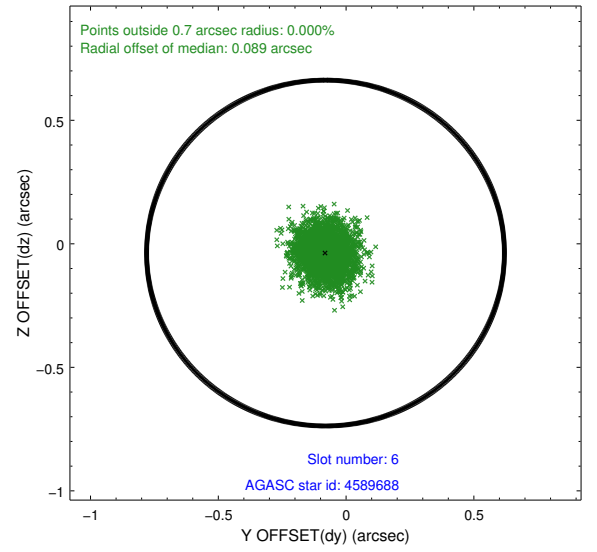
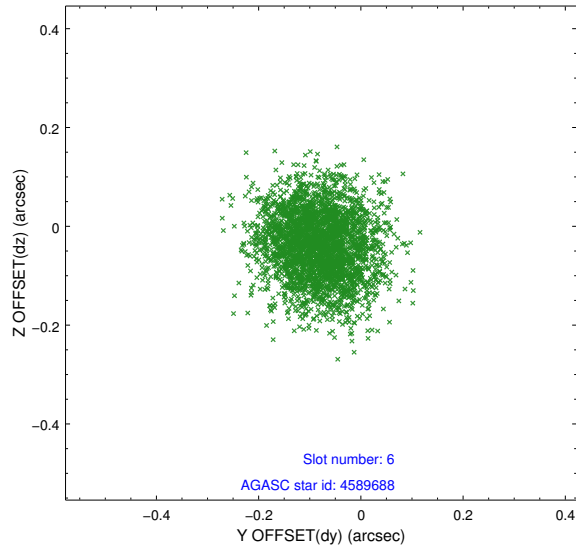
## 2.4.2 Slot 4



### 2.4.3 Slot 5

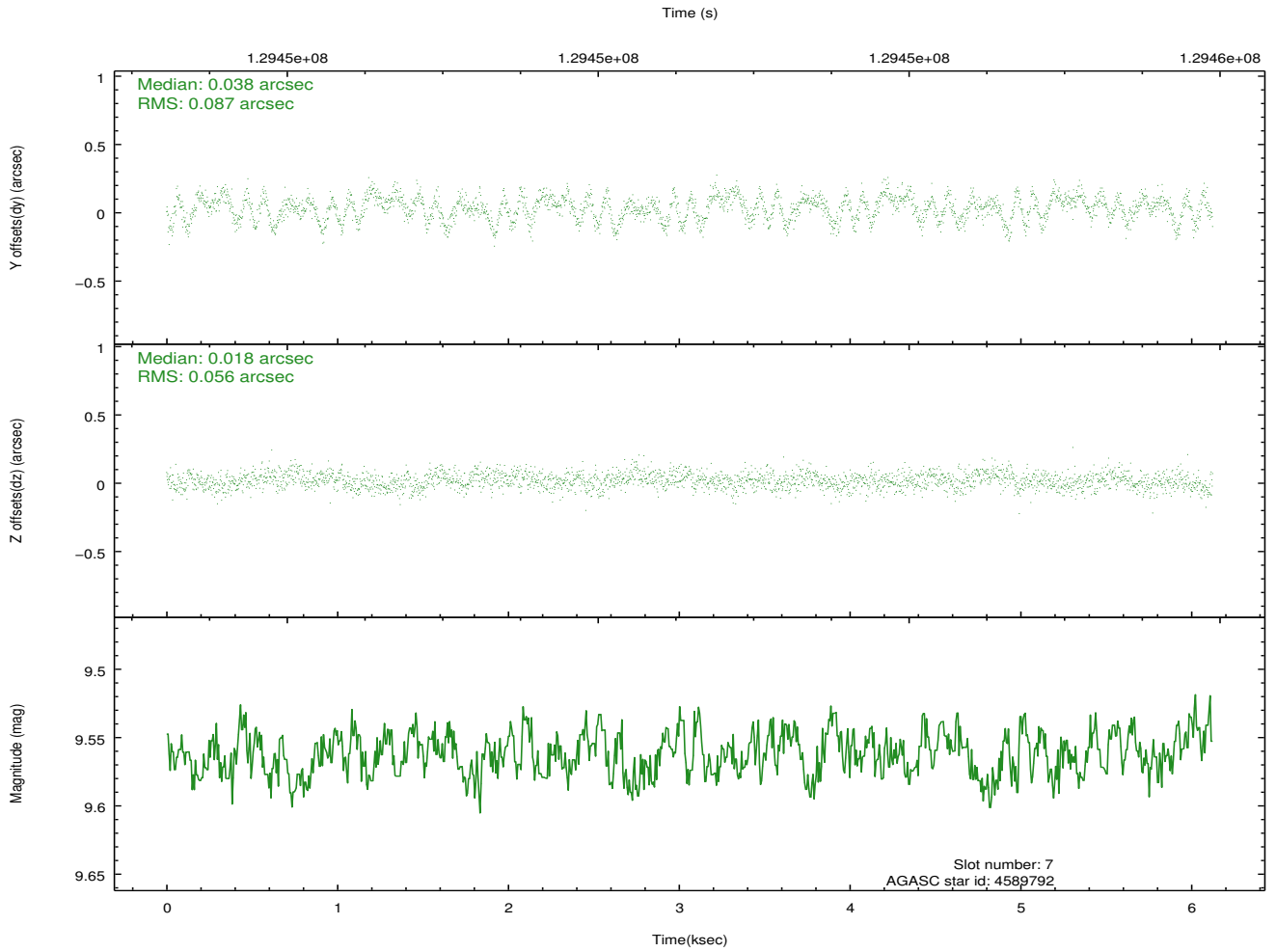
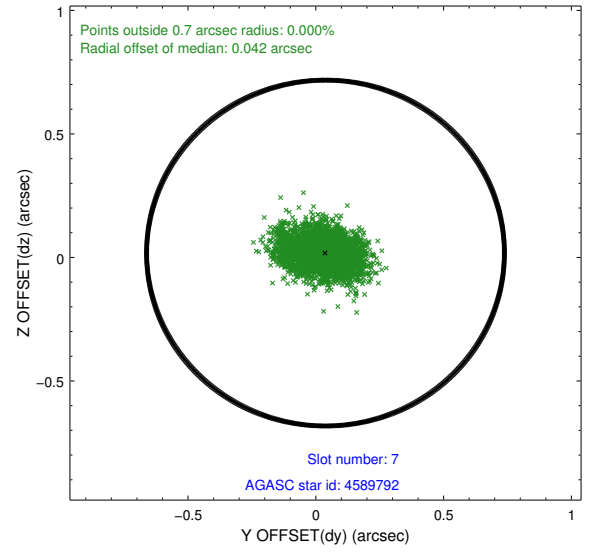
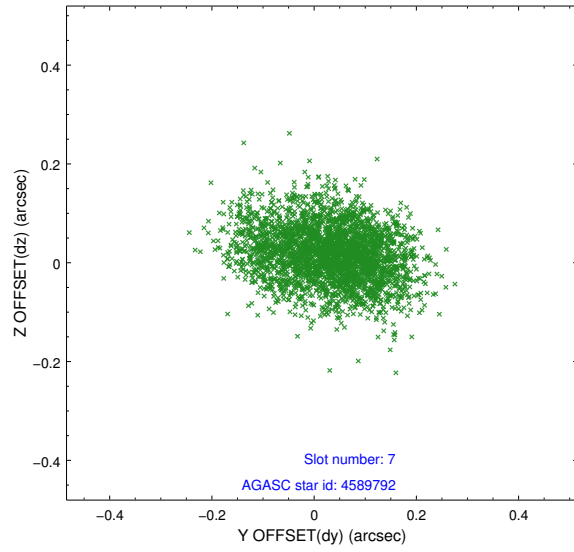


## 2.4.4 Slot 6



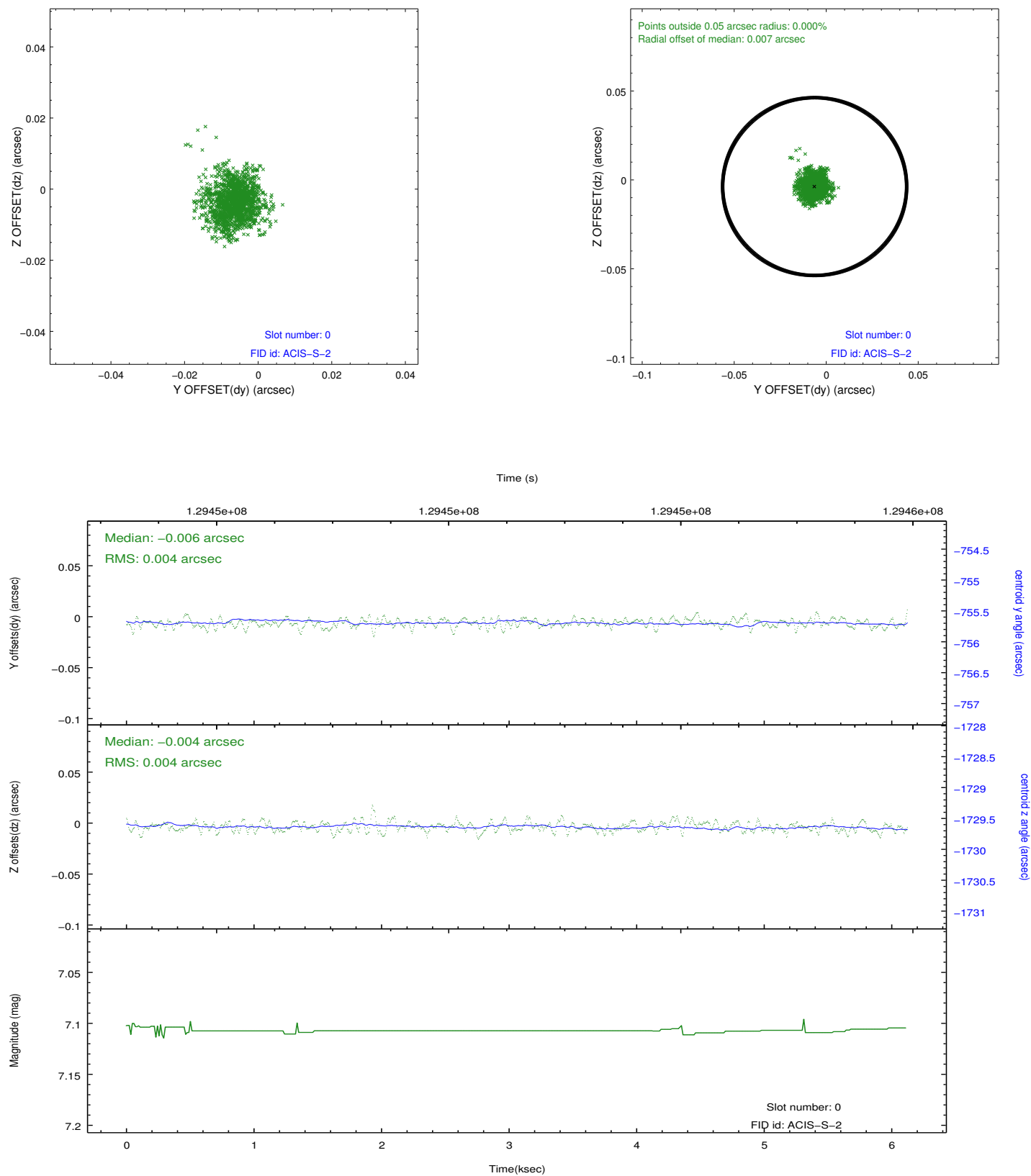


## 2.4.5 Slot 7

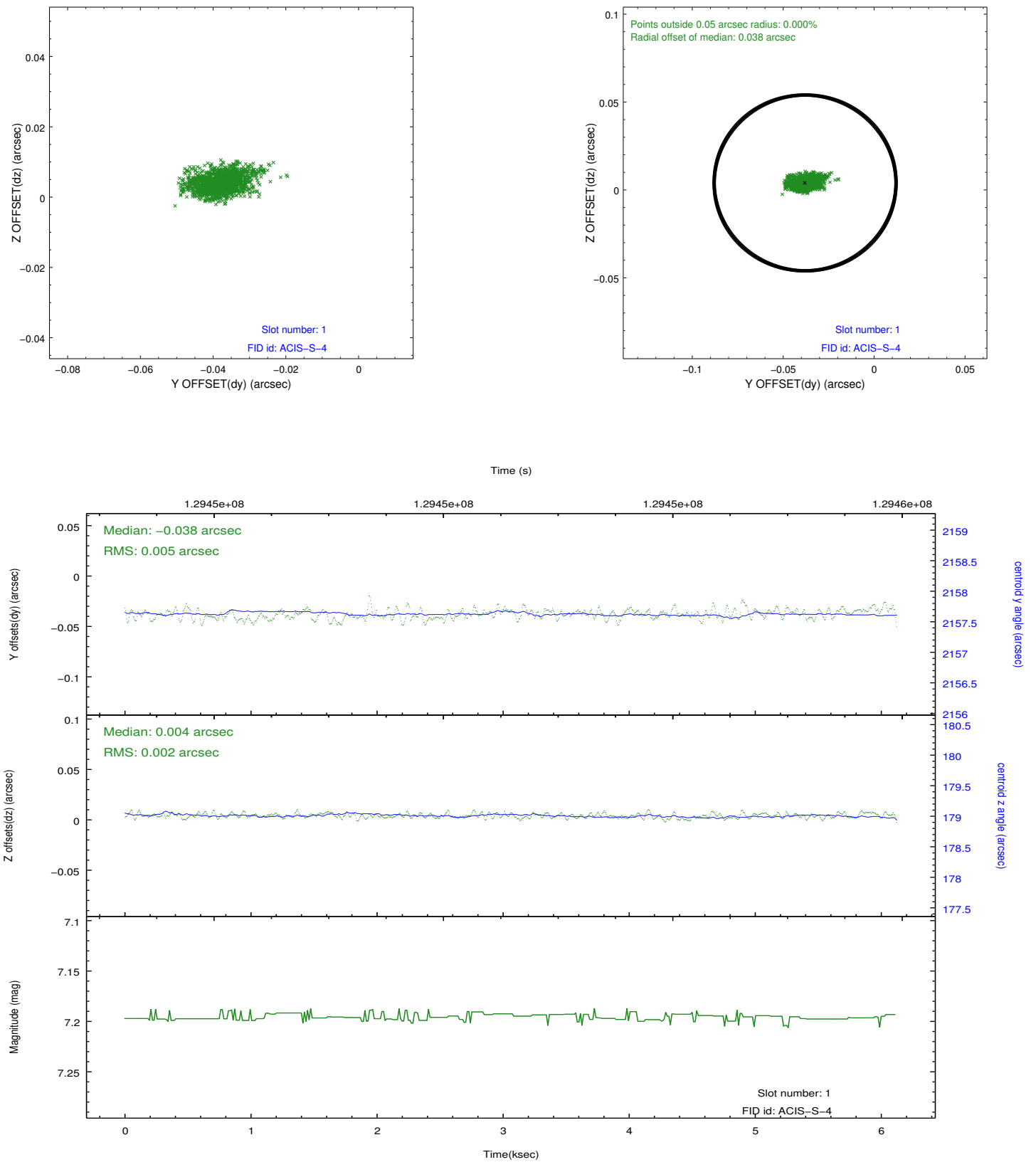


## 2.5 FID Slots

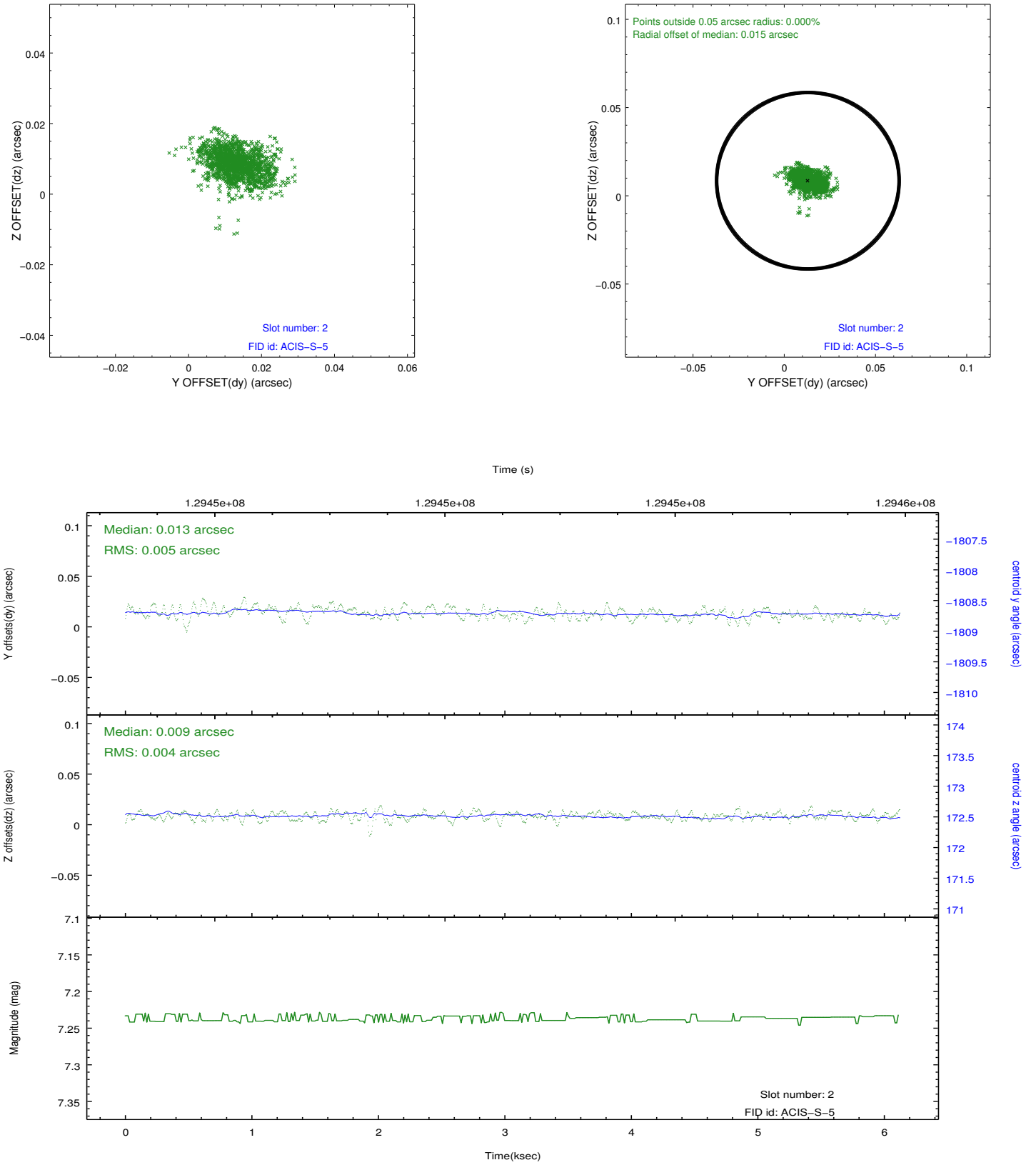
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.403

## A.2 Comments

Joint proposal with NOAO.