

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3334 - L2 Version 3  
Chandra X-Ray Center

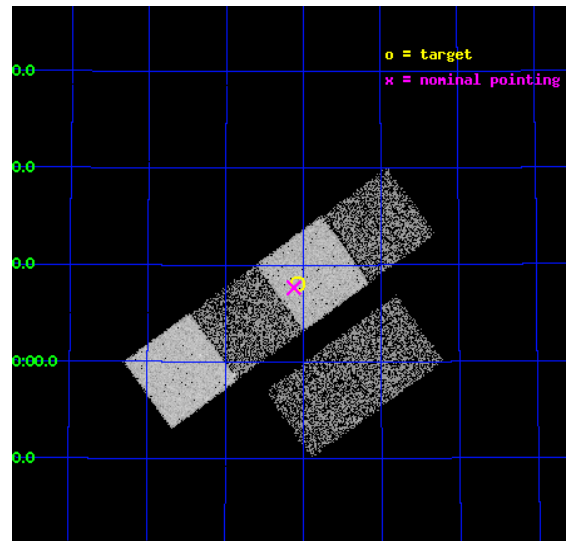
L2 Processing Date : Oct 15 2012

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# 1 Front

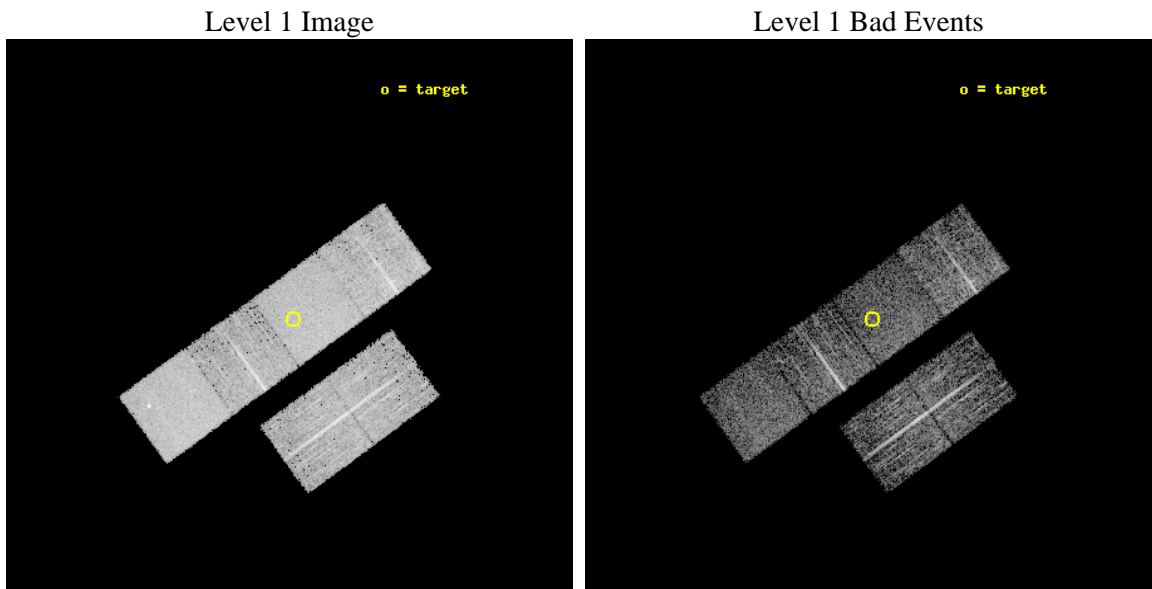
seq_num	900173	Sequence number
obs_id	3334	Observation id
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?	&#160
observer	Prof Kirpal Nandra	Principal investigator
object	AX J1512.0+5708	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	228.018333	Observer's specified target RA [deg]
dec_targ	57.134722	Observer's specified target Dec [deg]
ra_nom	228.0306290036	Nominal RA [deg]
dec_nom	57.127726902608	Nominal Dec [deg]
roll_nom	323.95844651115	Nominal Roll [deg]
revision	3	Processing version of data
ontime	4959.9999815226	Sum of GTIs [s]
livetime	4897.1934752031	Livetime [s]
ontime2	4959.9999815226	Sum of GTIs [s]
ontime3	4956.7590112686	Sum of GTIs [s]
ontime5	4959.9999815226	Sum of GTIs [s]
ontime6	4956.7590212524	Sum of GTIs [s]
ontime7	4959.9999815226	Sum of GTIs [s]
ontime8	4959.9999815226	Sum of GTIs [s]
l2events	52910	Number of level 2 events



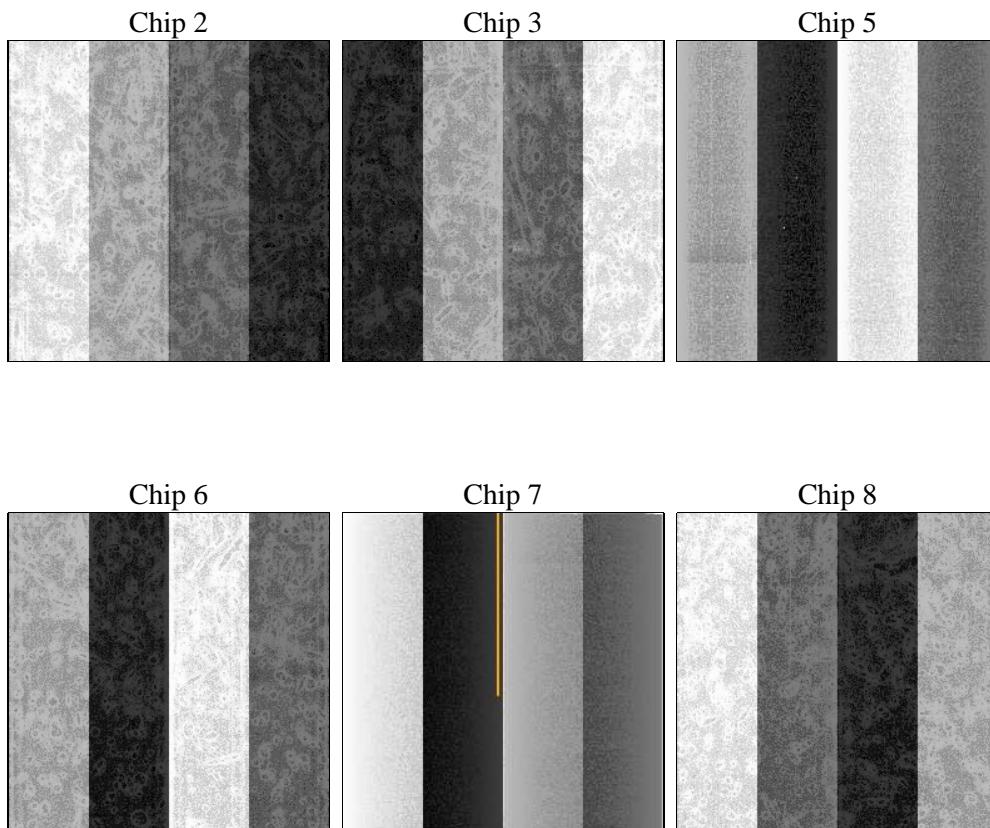
## 2 OBI

### 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	4959.9999815226	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	4959.9999815226	Sum of GTIs [s]
date	2012-10-15T12:46:59	Date and time of file creation	ontime3	4956.7590112686	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	4959.9999815226	Sum of GTIs [s]
			ontime6	4956.7590212524	Sum of GTIs [s]
			ontime7	4959.9999815226	Sum of GTIs [s]
			ontime8	4959.9999815226	Sum of GTIs [s]
			l1events	225727	Number of level 1 events

### 2.1.4 Events

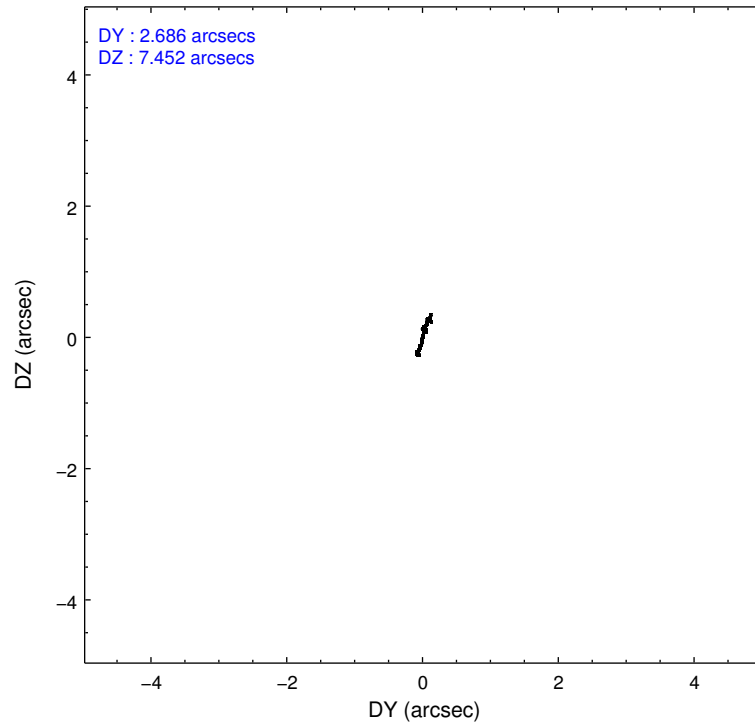
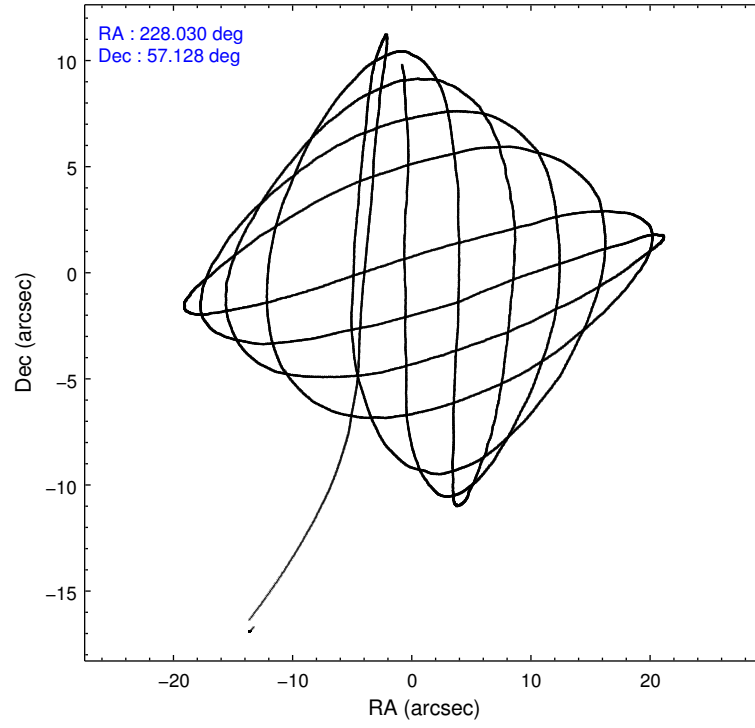
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	33149	31031	46977	31892	43182	39496	grade 0 events	1630	1549	1928	1659	1779	2618
rejected events	29447	27475	24872	27921	24503	31766		4%	4%	4%	5%	4%	6%
rejected %	88%	88%	52%	87%	56%	80%	grade 1 events	21	21	57	15	38	32
								0%	0%	0%	0%	0%	0%
							grade 2 events	755	708	6583	834	3634	1627
								2%	2%	14%	2%	8%	4%
							grade 3 events	358	332	837	347	1593	841
								1%	1%	1%	1%	3%	2%
							grade 4 events	351	359	845	360	1590	783
								1%	1%	1%	1%	3%	1%
							grade 5 events	1152	1320	3164	1392	3848	1743
								3%	4%	6%	4%	8%	4%
							grade 6 events	610	611	11922	772	10092	1869
								1%	1%	25%	2%	23%	4%
							grade 7 events	28272	26131	21641	26513	20608	29983
								85%	84%	46%	83%	47%	75%

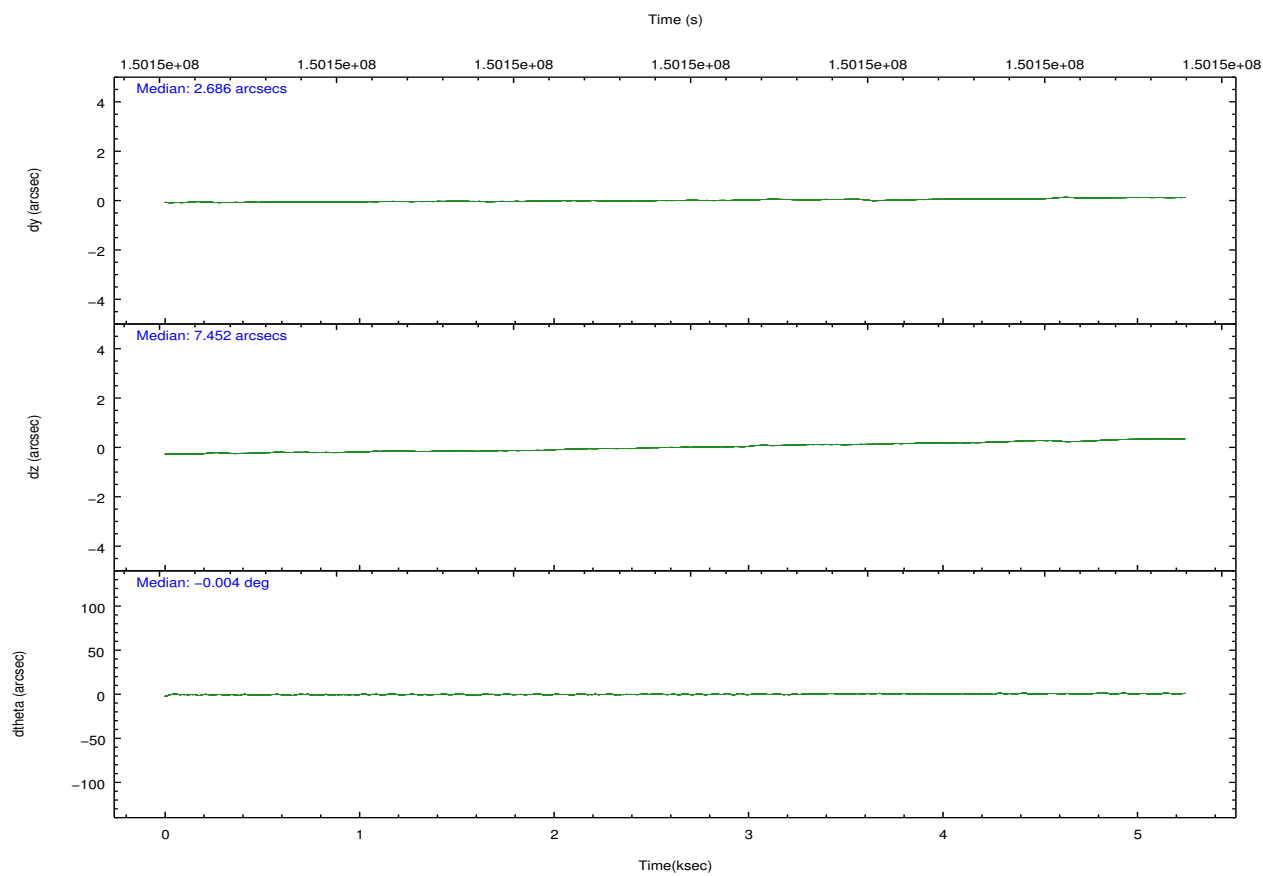
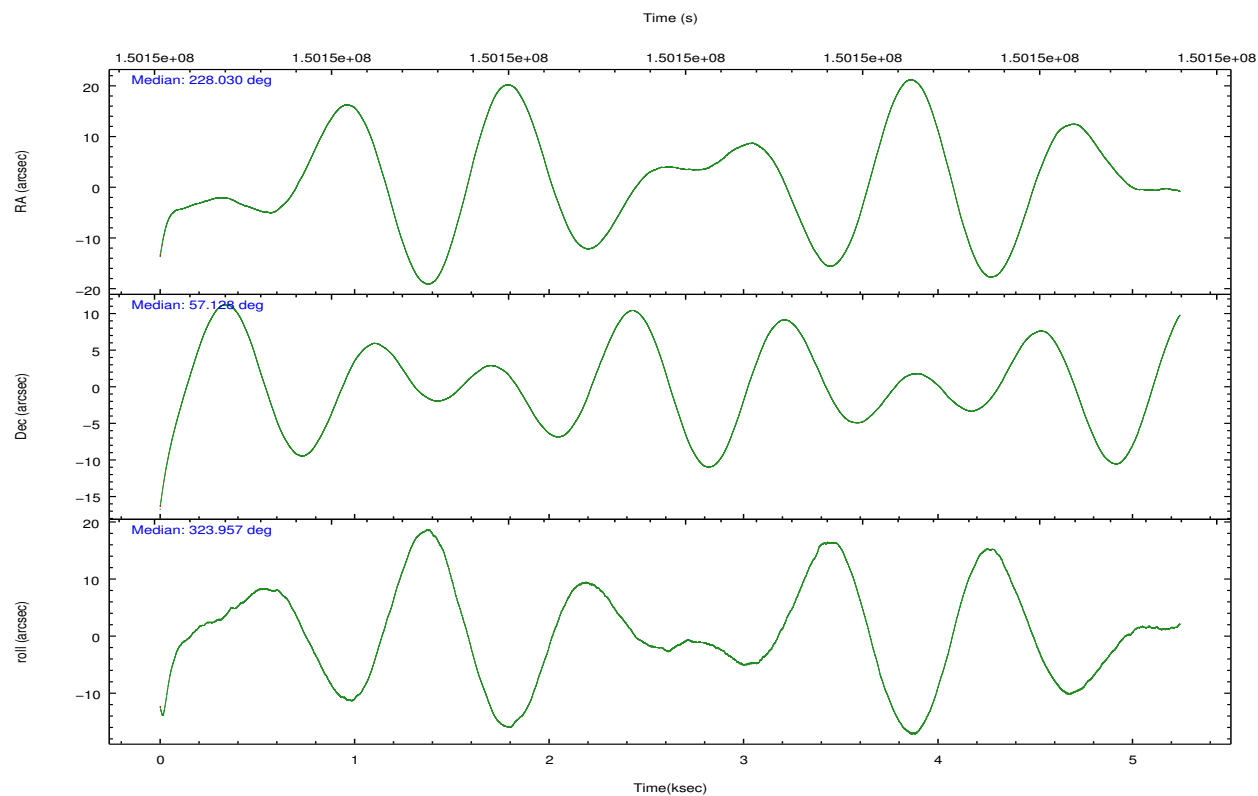


## 2.2 Compared Parameters

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	227.980718	228.0306290035975	Subarray requested	NONE	NONE
[deg] Pointing Dec	57.130228	57.12772690260842	Alternating exposures requested	N	N
[deg] Pointing Roll	323.843790	323.9584465111522	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	150148533.184000	150147539.97517			
Observation start date	2002-10-04T19:54:29	2002-10-04T19:38:59			
[s] Observation end time (MET)	150153533.184000	150154299.33795			
Observation end date	2002-10-04T21:17:49	2002-10-04T21:31:39			
Read mode	TIMED	TIMED			

## 2.3 Aspect



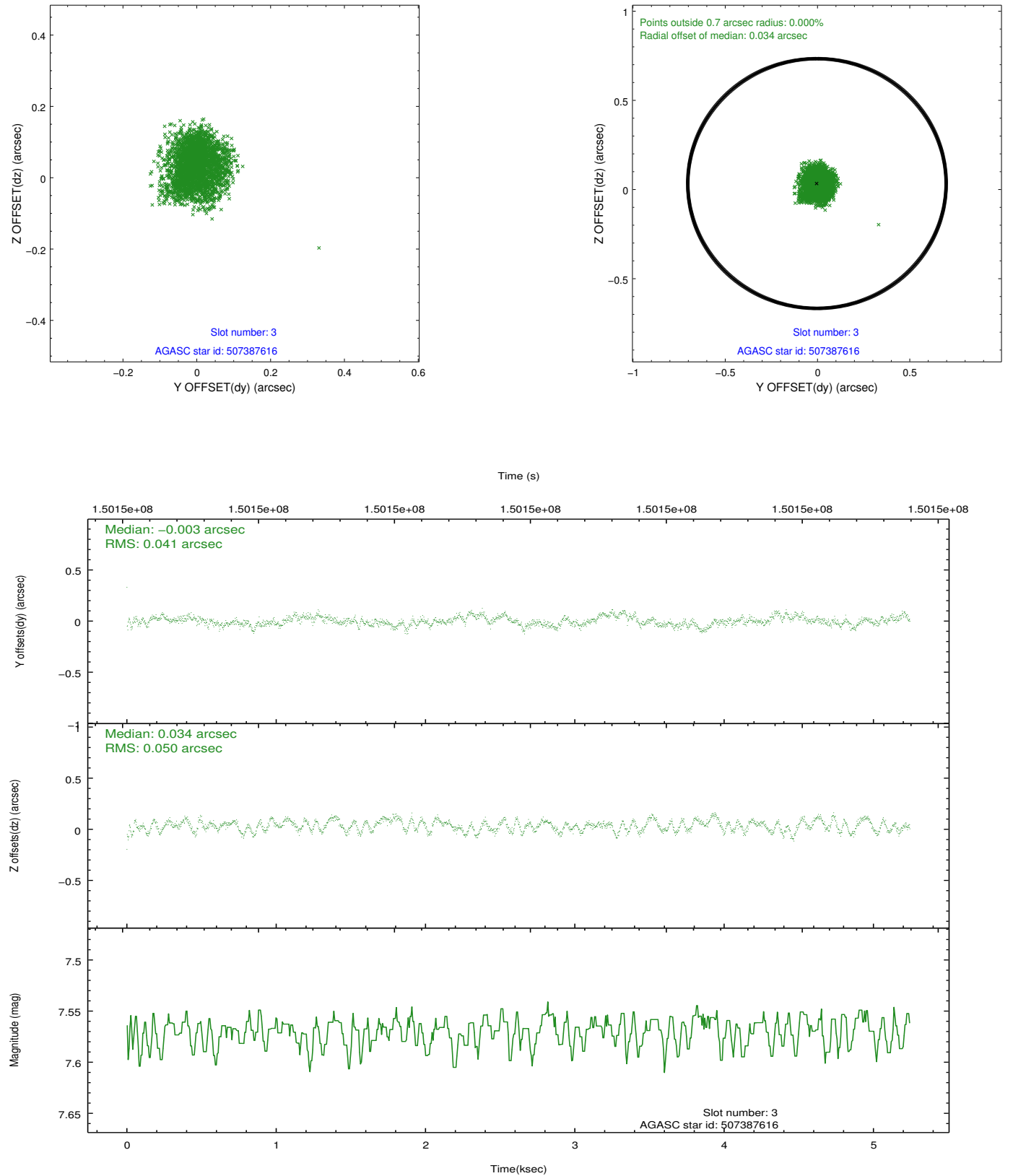


### Slot Statistics

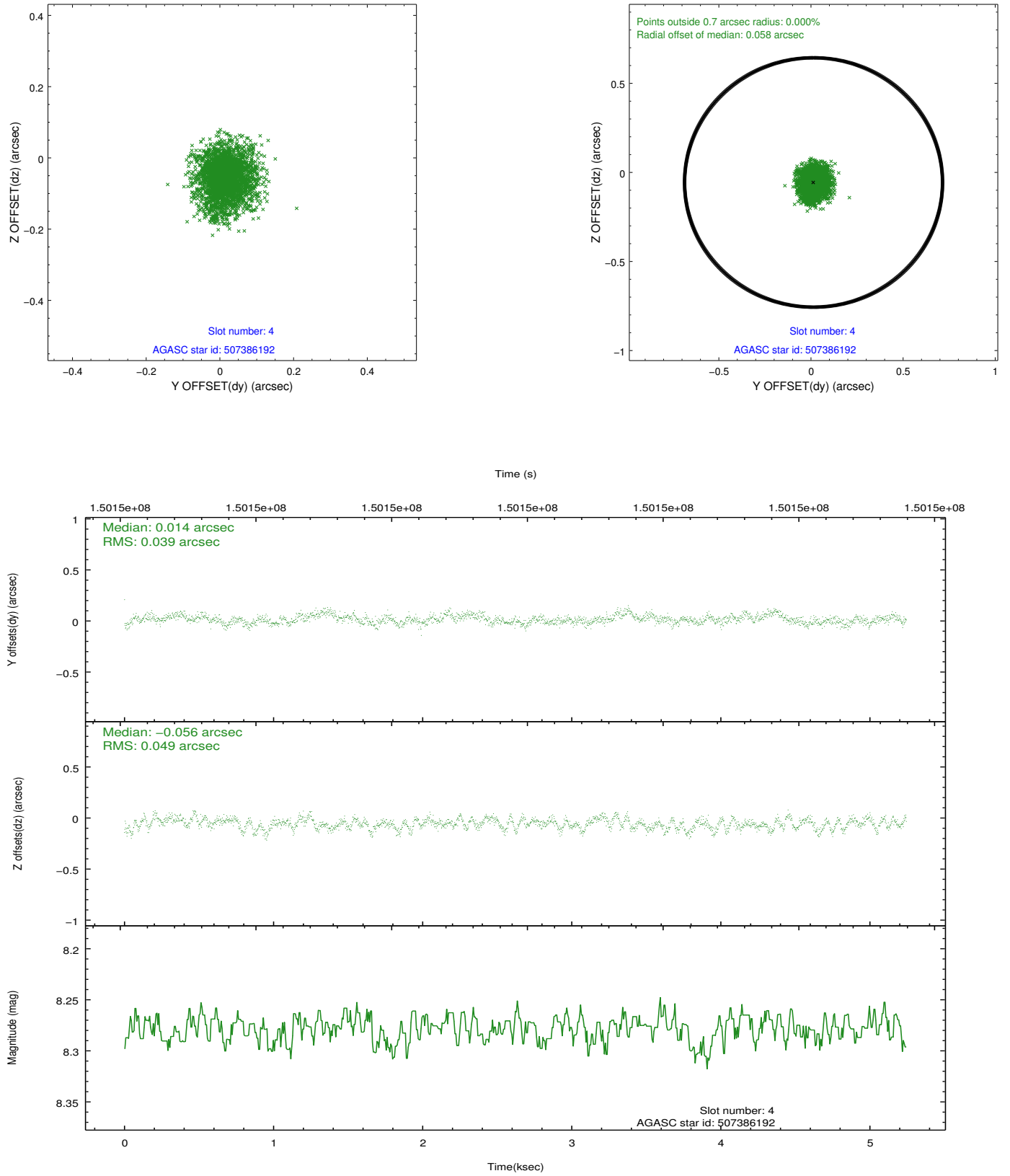
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1280	-0.011	0.003	0.008	0.013	0.000000	0.000000	-755.35	-1728.64
1	FID	ACIS-S-4	7.20	1280	-0.020	0.005	0.005	0.009	0.000000	0.000000	2157.41	178.65
2	FID	ACIS-S-5	7.24	1280	-0.000	0.001	0.008	0.016	0.000000	0.000000	-1806.69	173.64
3	GUIDE	507387616	7.57	2559	-0.003	0.034	0.071	0.107	227.343190	57.112136	-969.70	-783.03
4	GUIDE	507386192	8.28	2559	0.014	-0.056	0.066	0.111	228.408253	57.191638	542.22	672.69
5	GUIDE	507388744	8.84	2558	-0.061	-0.091	0.079	0.121	229.218810	57.378704	1400.68	2157.95
6	GUIDE	507387168	9.61	2557	0.051	0.090	0.121	0.191	226.927533	56.702730	-779.98	-2456.47
7	GUIDE	507385608	9.61	2556	-0.008	0.015	0.095	0.156	228.578240	57.333615	503.25	1279.67

## 2.4 Star Slots

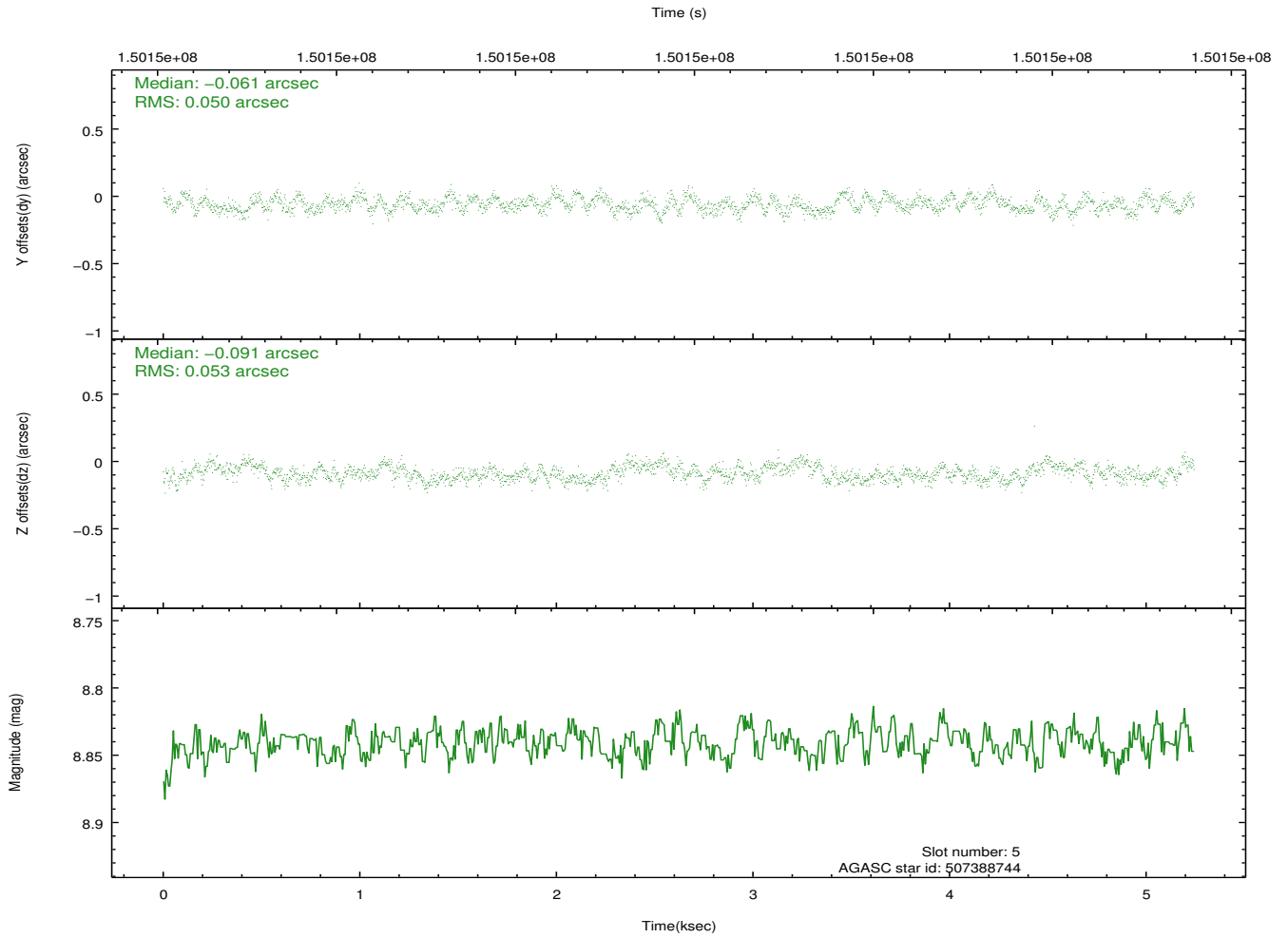
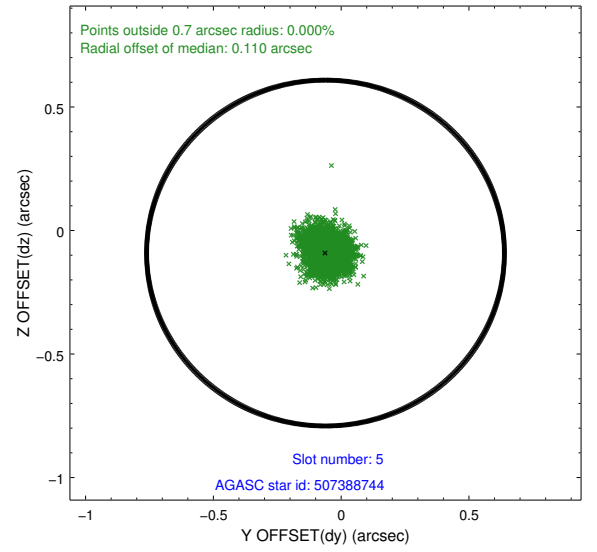
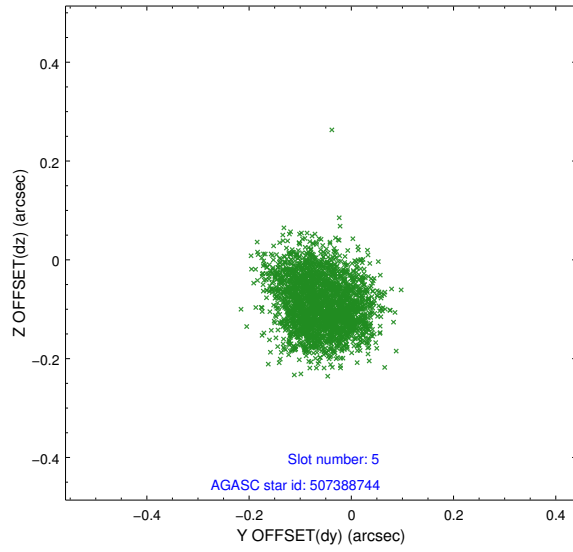
### 2.4.1 Slot 3



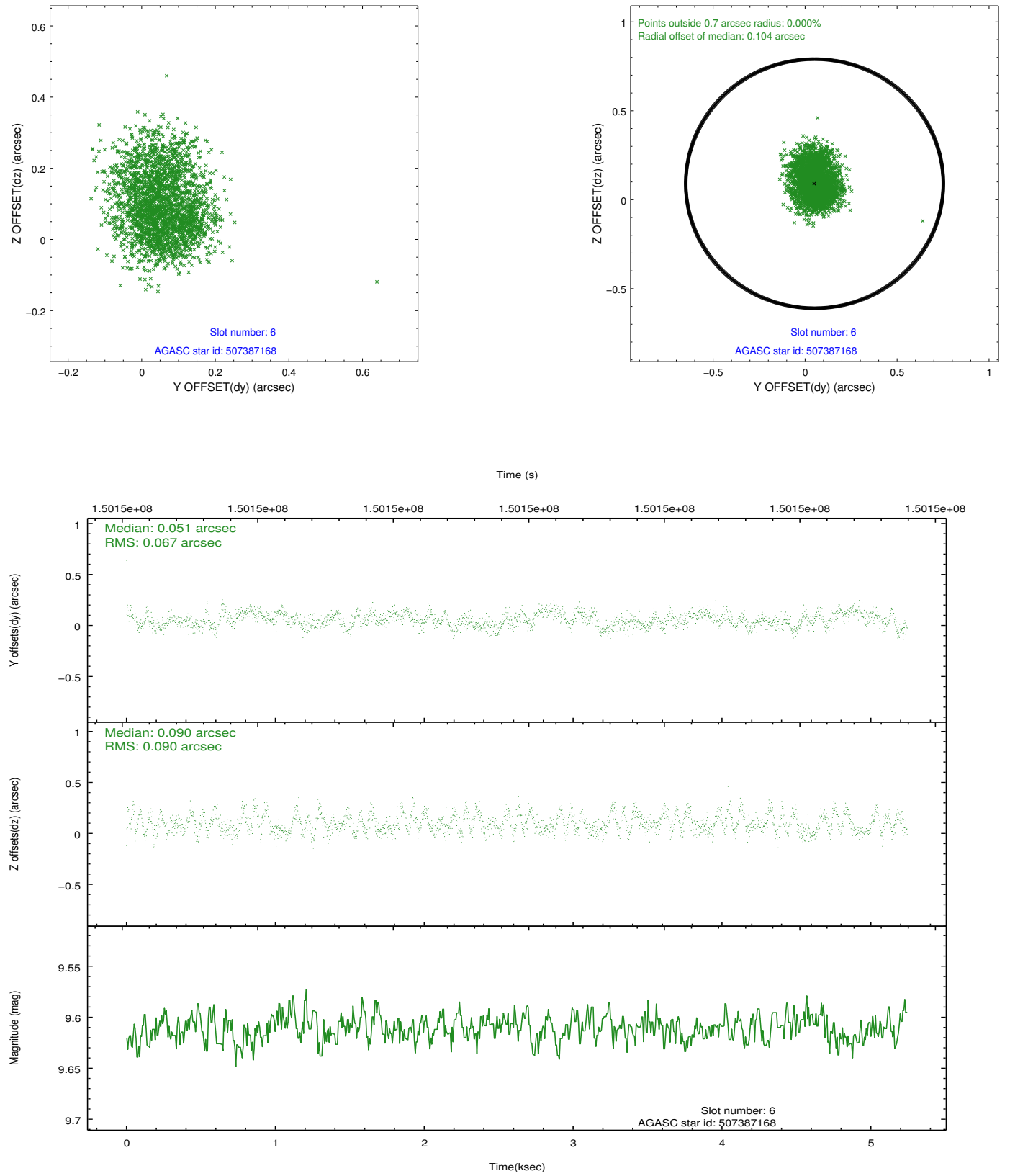
## 2.4.2 Slot 4



### 2.4.3 Slot 5

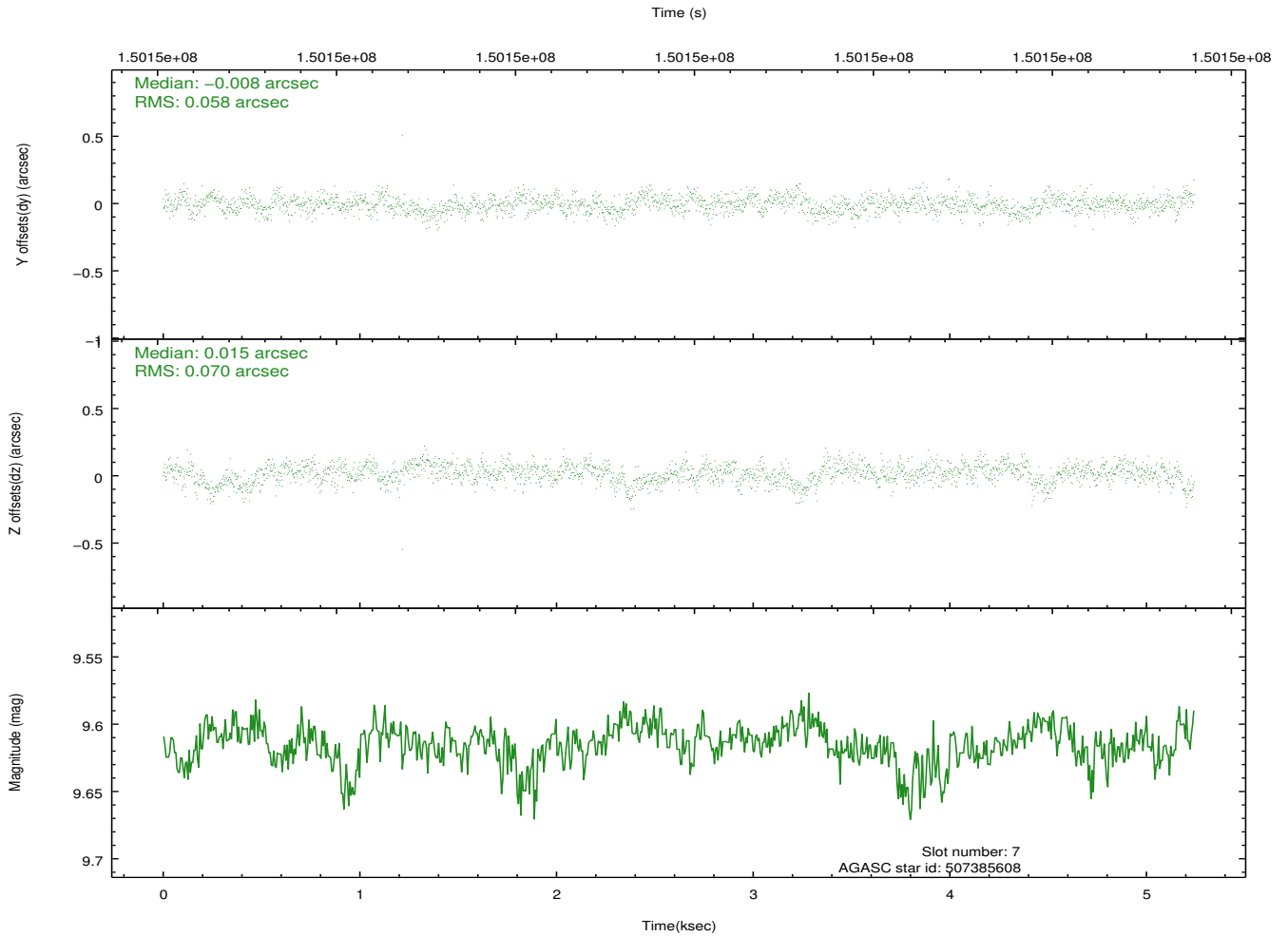
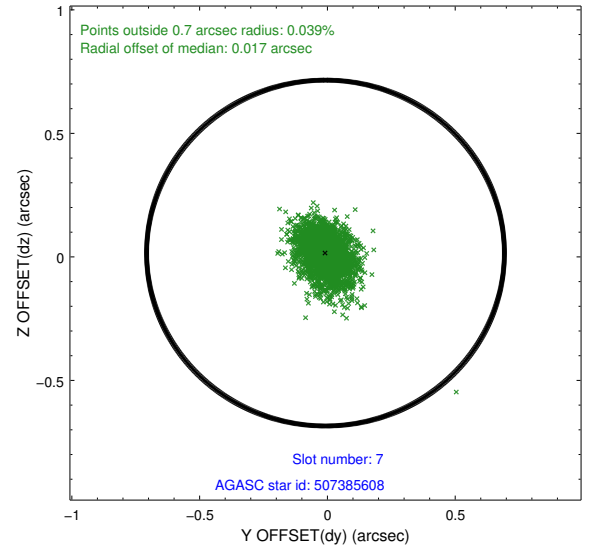
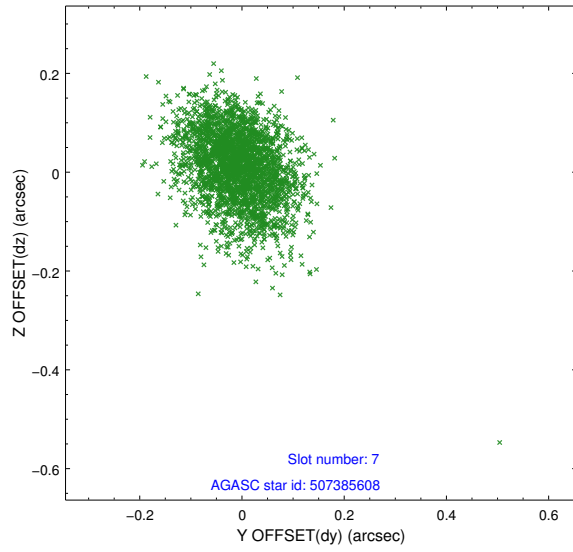


## 2.4.4 Slot 6



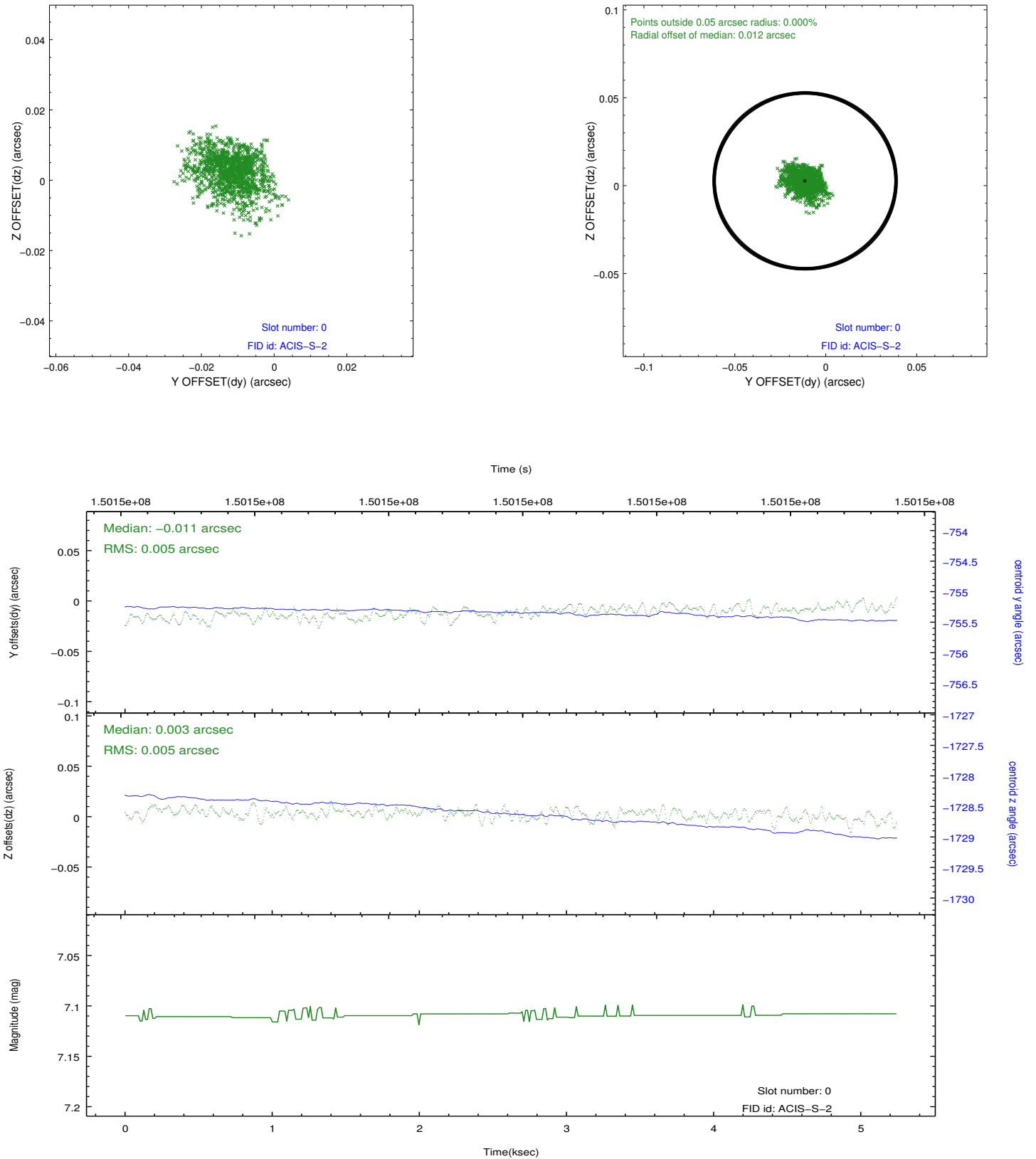


## 2.4.5 Slot 7

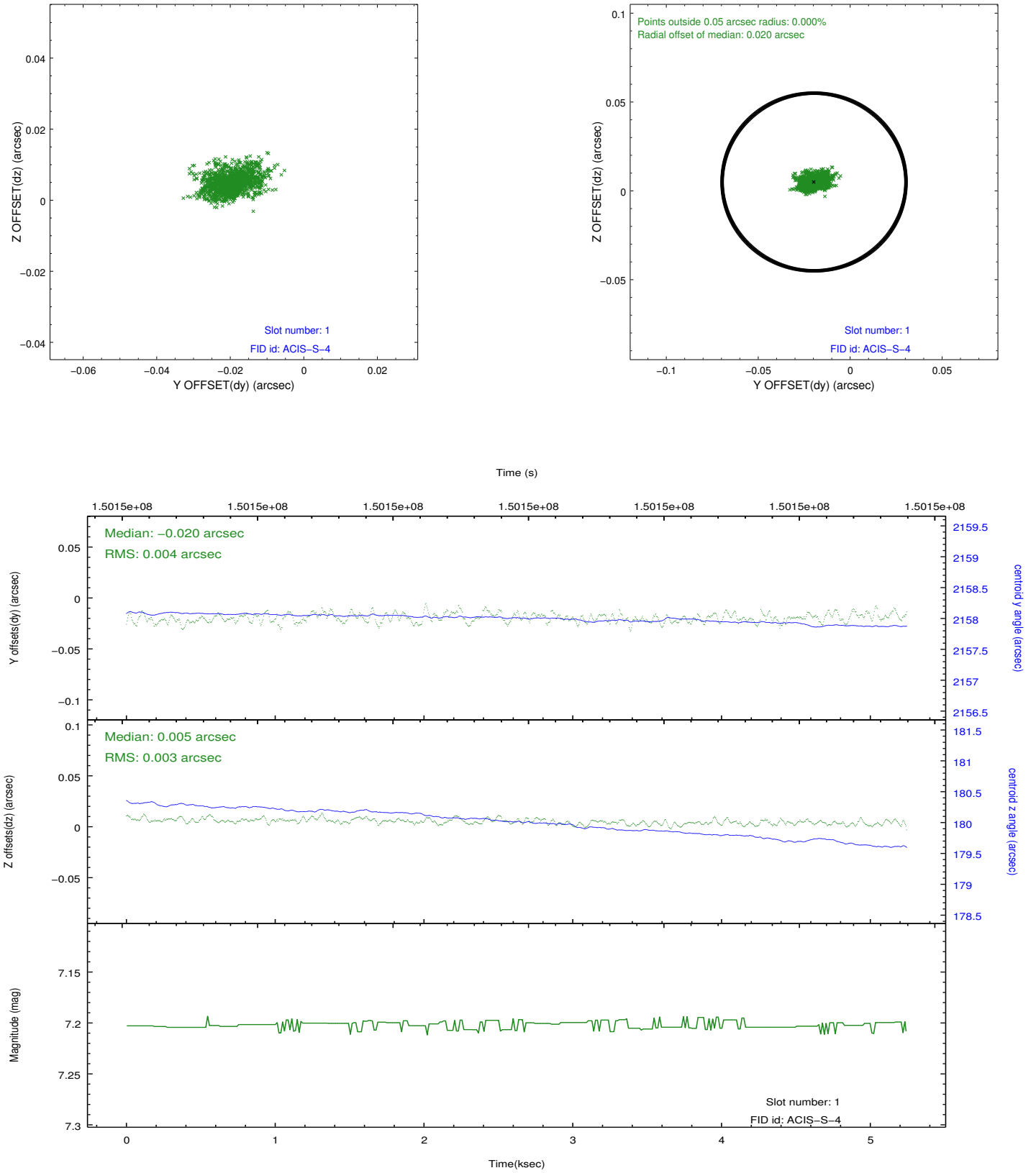


## 2.5 FID Slots

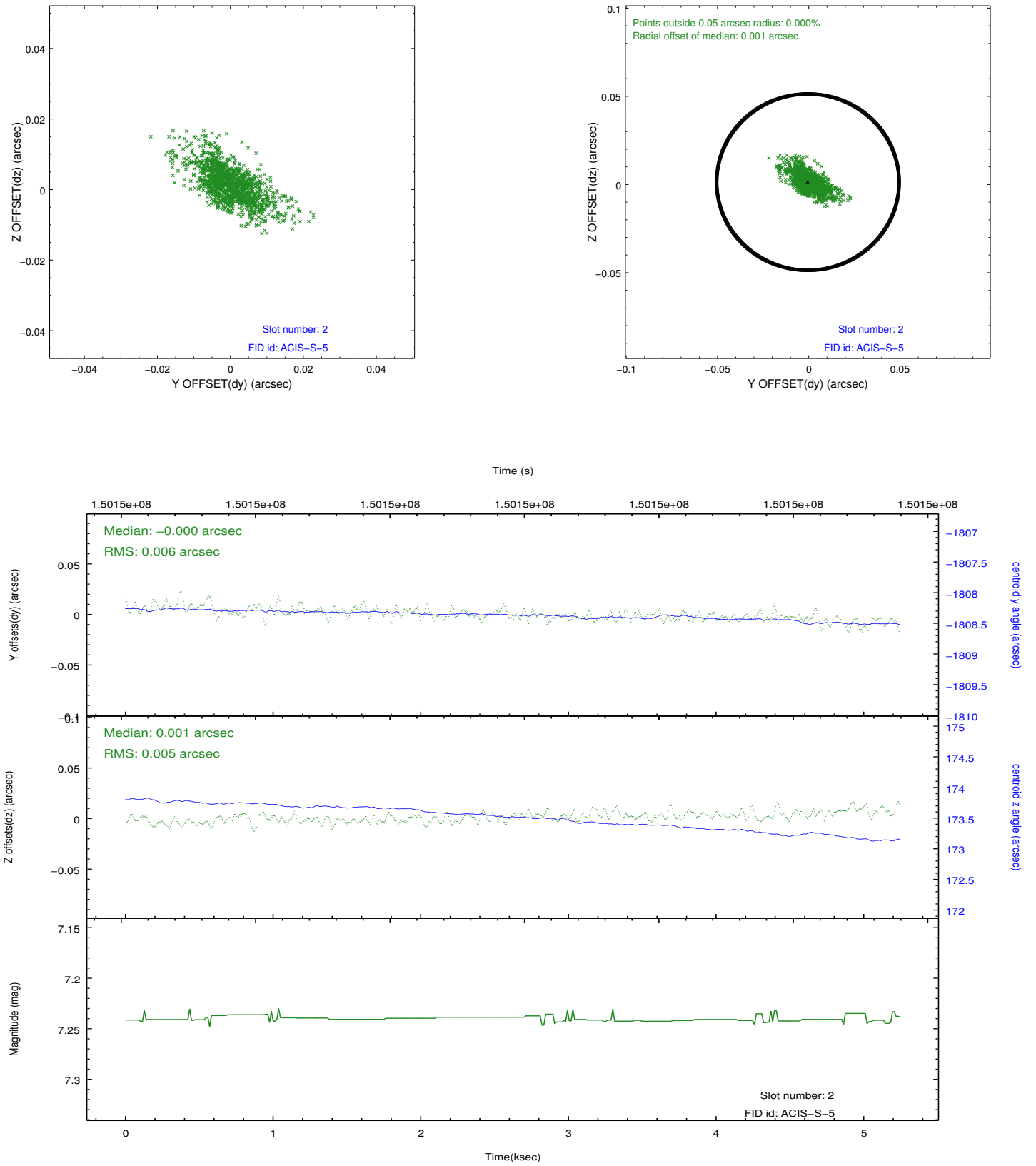
### 2.5.1 Slot 0



## 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)	2012.10.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.963

## A.2 Comments

Joint proposal with NOAO.