

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 3319 - L2 Version 3  
Chandra X-Ray Center

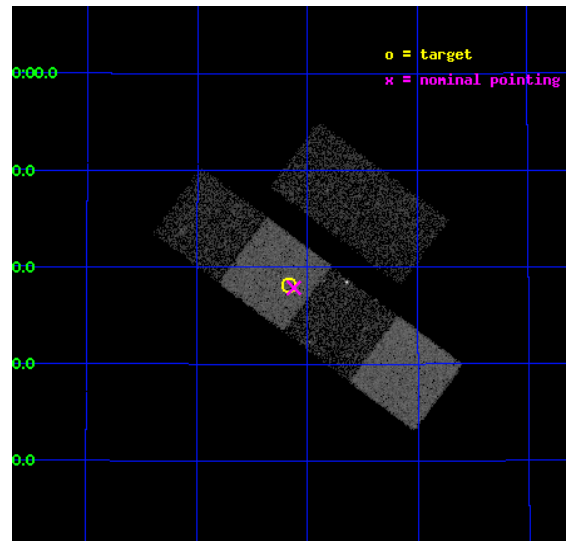
L2 Processing Date : Oct 4 2012

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# 1 Front

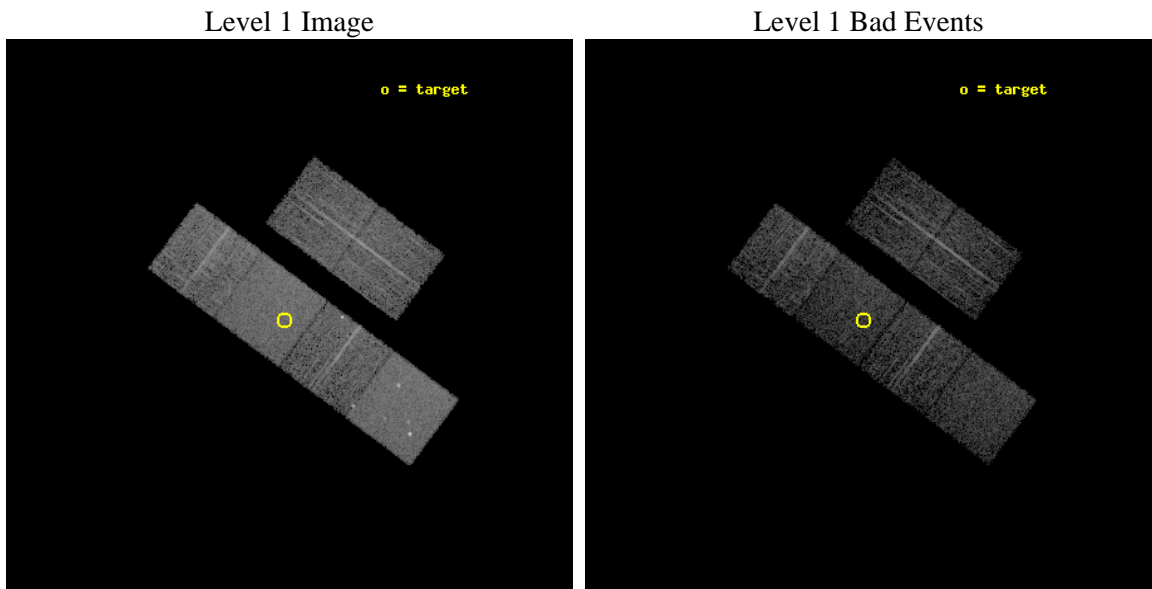
seq_num	900158	Sequence number
obs_id	3319	Observation id
title	THE SHEEP SURVEY: WHAT KIND OF OBJECTS MAKE THE X-RAY BACKGROUND?	&#160
observer	Prof Kirpal Nandra	Principal investigator
object	AX J1035.1+3938	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	158.792083	Observer's specified target RA [deg]
dec_targ	39.635833	Observer's specified target Dec [deg]
ra_nom	158.78080407257	Nominal RA [deg]
dec_nom	39.631386104026	Nominal Dec [deg]
roll_nom	216.6609029363	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5120.0000047535	Sum of GTIs [s]
livetime	5055.1674817994	Livetime [s]
ontime2	5120.0000047535	Sum of GTIs [s]
ontime3	5120.0000047535	Sum of GTIs [s]
ontime5	5120.0000047535	Sum of GTIs [s]
ontime6	5120.0000047535	Sum of GTIs [s]
ontime7	5120.0000047535	Sum of GTIs [s]
ontime8	5120.0000047535	Sum of GTIs [s]
l2events	51112	Number of level 2 events



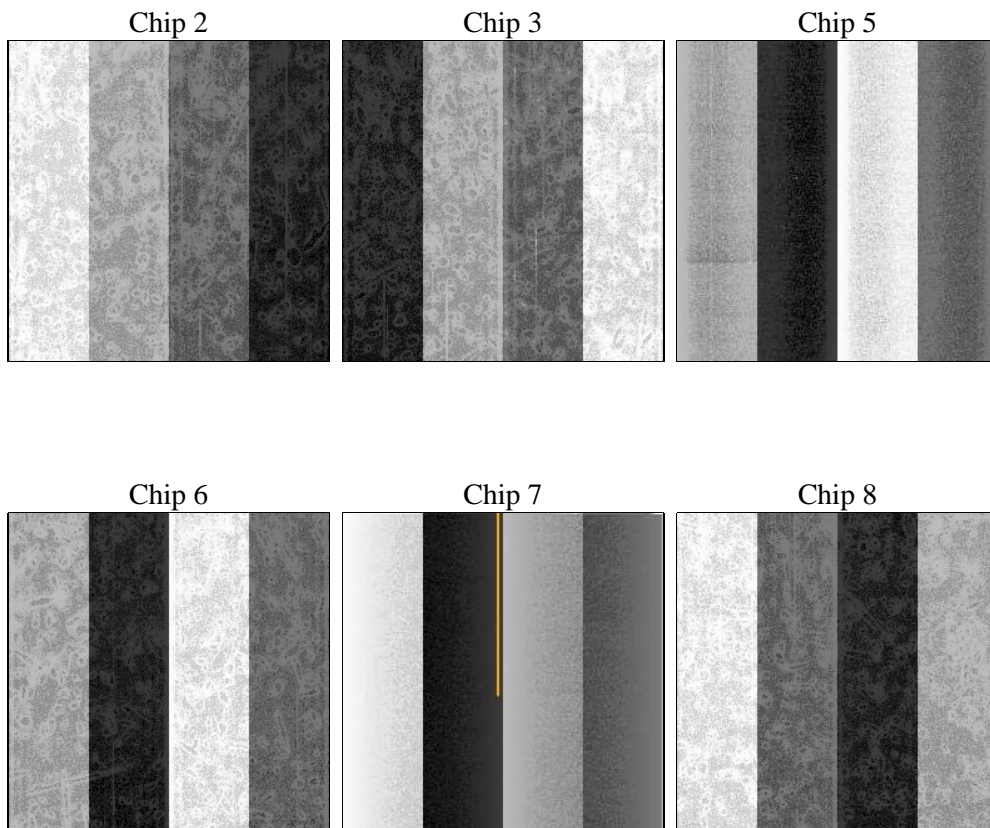
## 2 OBI

### 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	5120.0000047535	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime2	5120.0000047535	Sum of GTIs [s]
date	2012-10-04T13:32:39	Date and time of file creation	ontime3	5120.0000047535	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	5120.0000047535	Sum of GTIs [s]
			ontime6	5120.0000047535	Sum of GTIs [s]
			ontime7	5120.0000047535	Sum of GTIs [s]
			ontime8	5120.0000047535	Sum of GTIs [s]
			l1events	223823	Number of level 1 events

### 2.1.4 Events

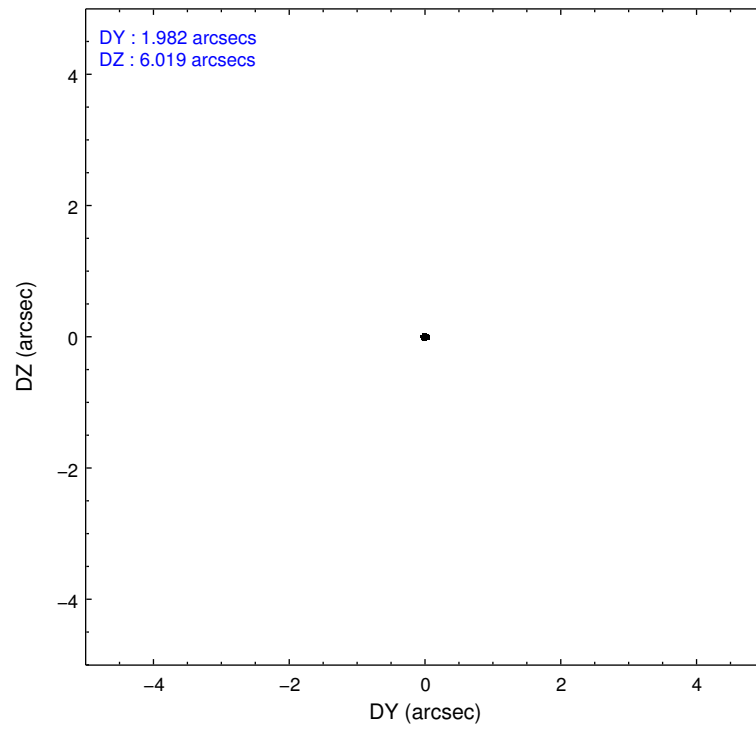
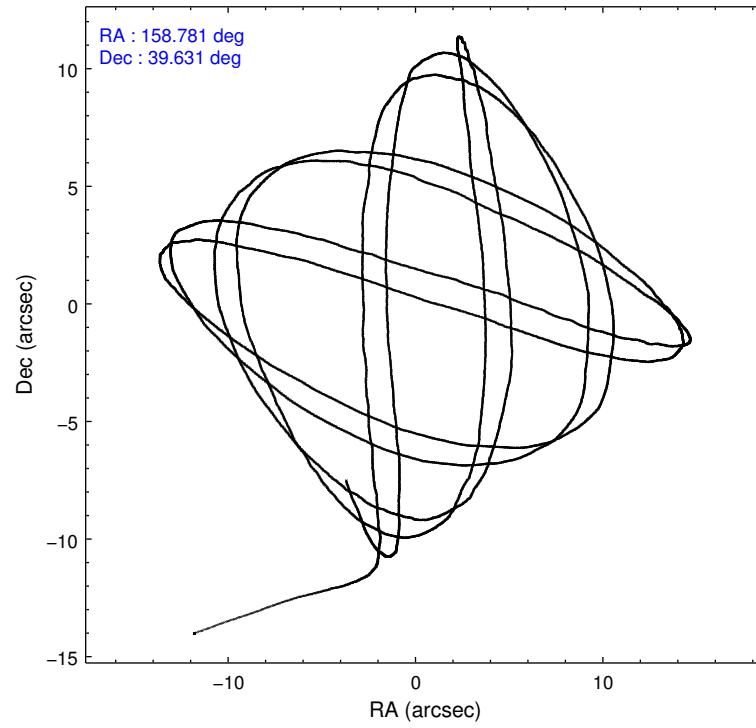
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	31871	30095	46596	33528	41712	40021	grade 0 events	1548	1530	3111	3853	1712	2486
rejected events	28335	26604	24771	27285	24552	32336		4%	5%	6%	11%	4%	6%
rejected %	88%	88%	53%	81%	58%	80%	grade 1 events	14	15	103	80	35	19
								0%	0%	0%	0%	0%	0%
							grade 2 events	750	705	6482	948	3459	1779
								2%	2%	13%	2%	8%	4%
							grade 3 events	324	331	880	428	1592	748
								1%	1%	1%	1%	3%	1%
							grade 4 events	337	356	863	397	1512	655
								1%	1%	1%	1%	3%	1%
							grade 5 events	1167	1303	3397	1373	3995	1747
								3%	4%	7%	4%	9%	4%
							grade 6 events	643	636	10855	706	9154	2115
								2%	2%	23%	2%	21%	5%
							grade 7 events	27088	25219	20905	25743	20253	30472
								84%	83%	44%	76%	48%	76%

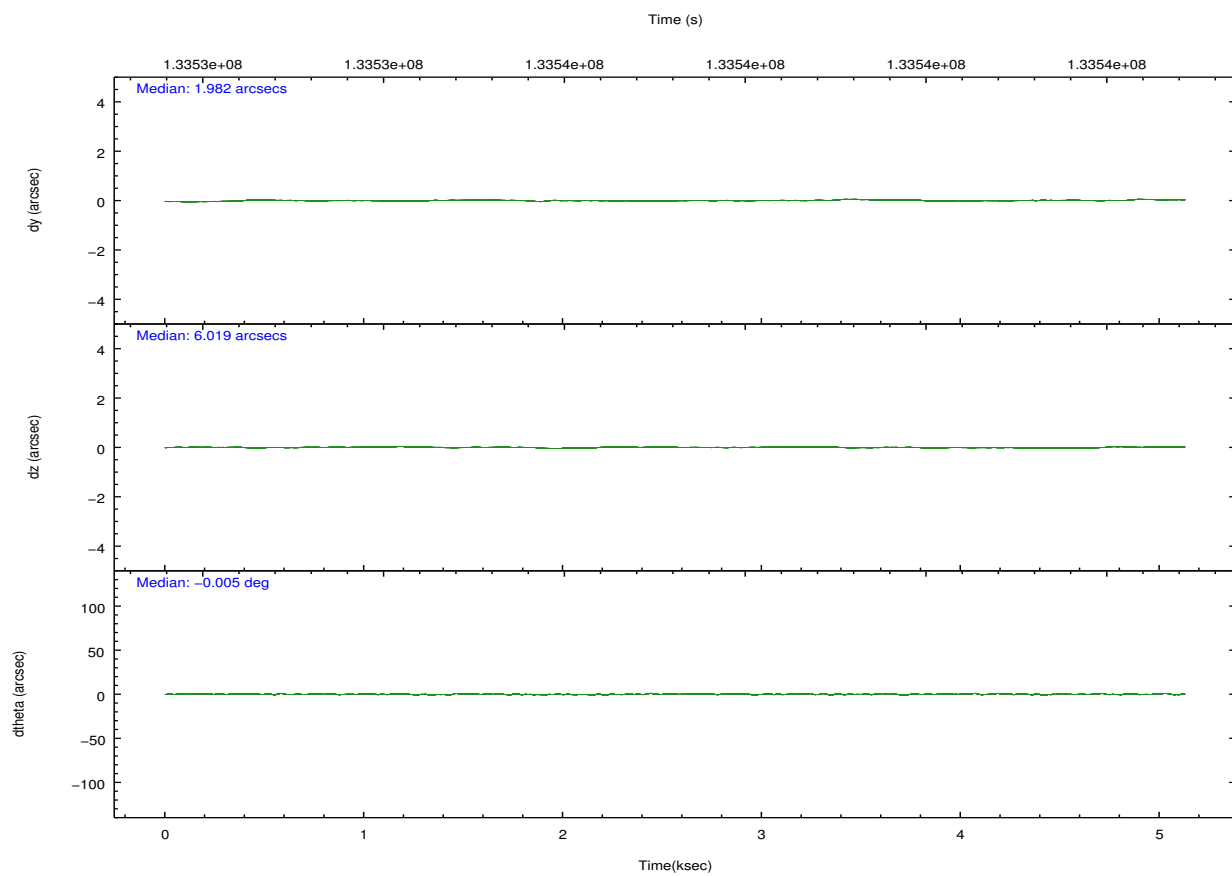
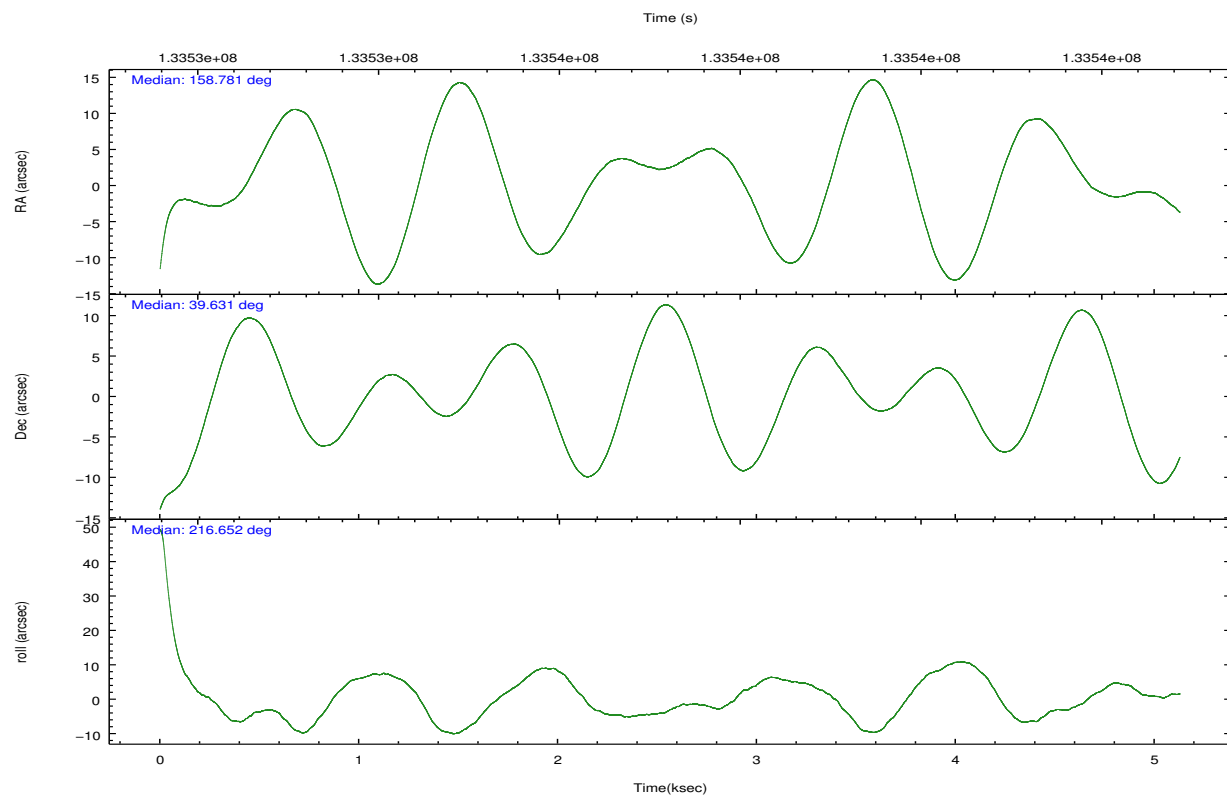


## 2.2 Compared Parameters

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	158.794425	158.7808040725664	Subarray requested	NONE	NONE
[deg] Pointing Dec	39.656648	39.63138610402646	Alternating exposures requested	N	N
[deg] Pointing Roll	216.495489	216.6609029362987	[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)	133533178.184000	133532101.20651			
Observation start date	2002-03-26T12:31:54	2002-03-26T12:15:01			
[s] Observation end time (MET)	133538178.184000	133538727.83178			
Observation end date	2002-03-26T13:55:14	2002-03-26T14:05:27			
Read mode	TIMED	TIMED			

## 2.3 Aspect



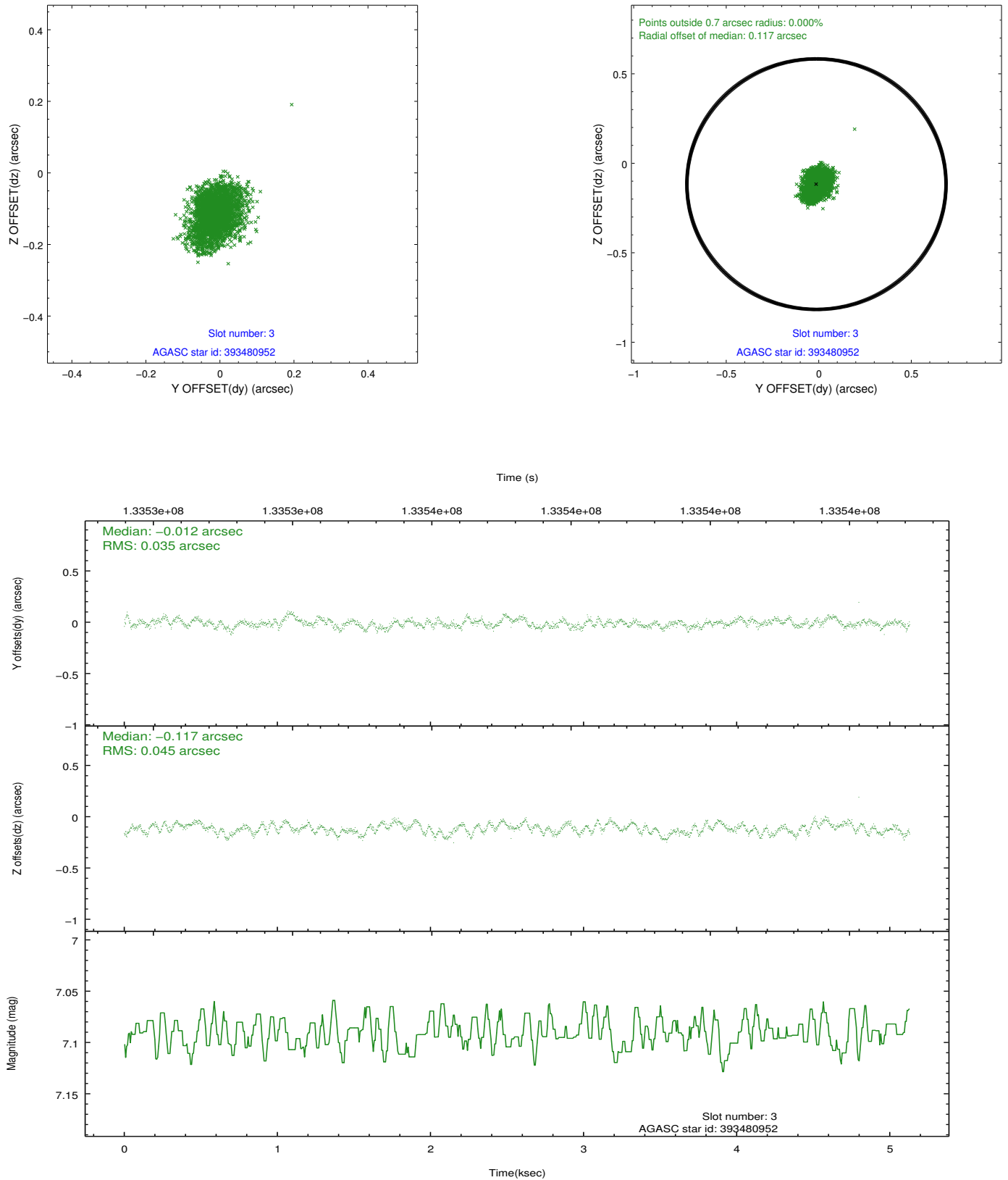


### Slot Statistics

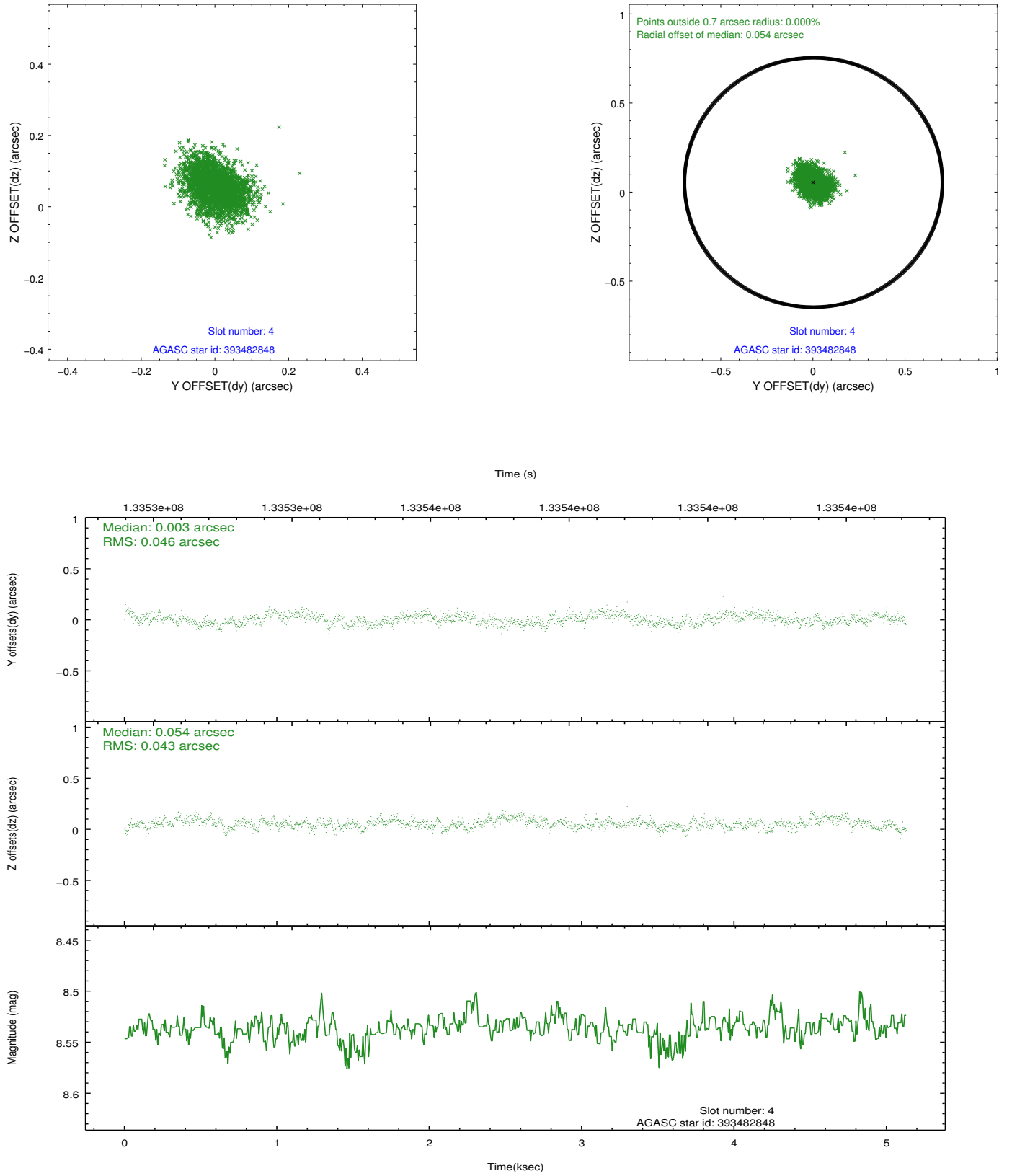
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	1251	-0.048	0.006	0.006	0.011	0.000000	0.000000	-754.60	-1727.17
1	FID	ACIS-S-4	7.21	1251	-0.016	0.021	0.005	0.010	0.000000	0.000000	2158.13	180.18
2	FID	ACIS-S-5	7.24	1250	0.033	-0.019	0.006	0.010	0.000000	0.000000	-1805.88	175.06
3	GUIDE	393480952	7.09	2503	-0.012	-0.117	0.061	0.098	158.287108	39.221562	2066.21	414.33
4	GUIDE	393482848	8.54	2503	0.003	0.054	0.068	0.108	158.133503	39.603611	1583.89	-942.18
5	GUIDE	393484920	10.27	2498	0.163	-0.008	0.157	0.245	158.498802	39.317355	1387.95	490.60
6	GUIDE	393484632	9.91	2502	-0.163	0.029	0.136	0.220	159.890130	39.591900	-2316.28	1979.88
7	GUIDE	393478472	10.04	2429	0.011	0.048	0.107	0.175	158.740541	39.895284	-392.50	-778.60

## 2.4 Star Slots

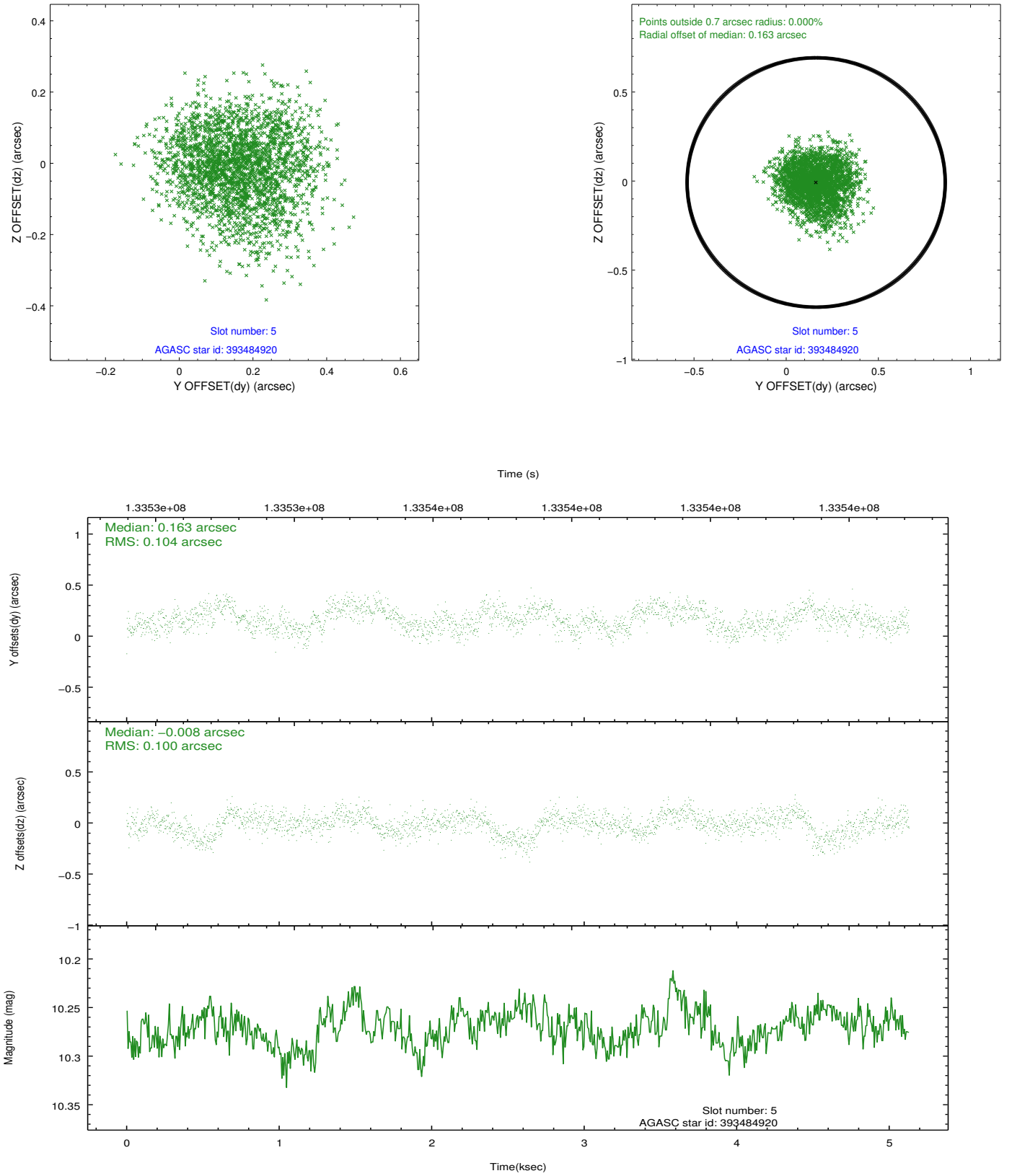
### 2.4.1 Slot 3



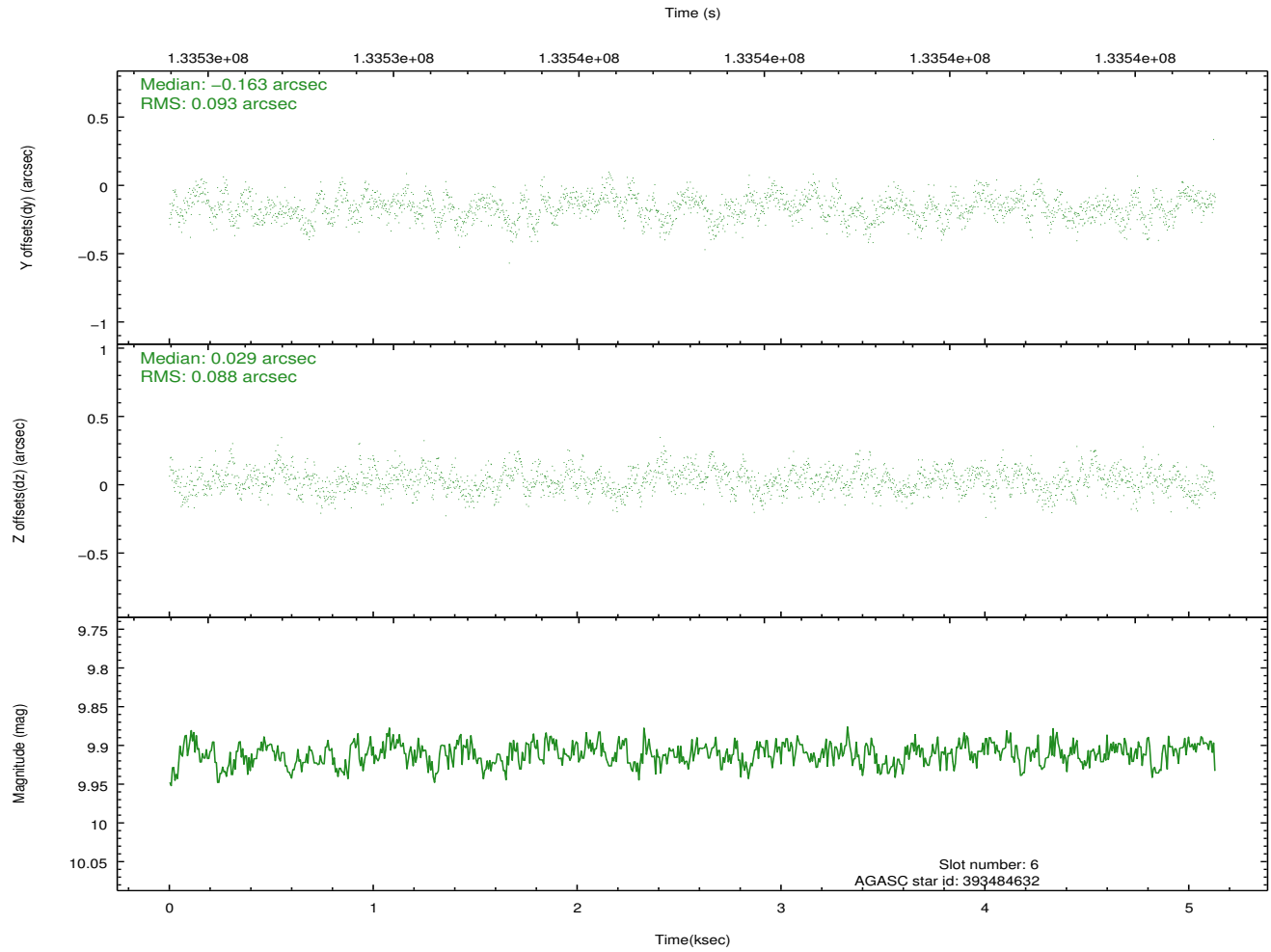
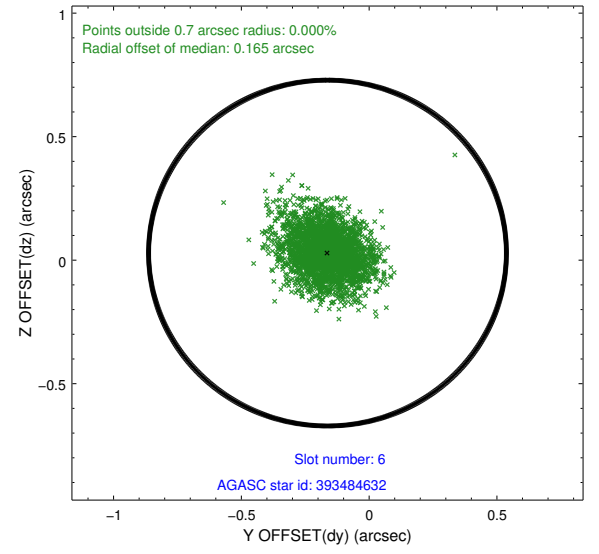
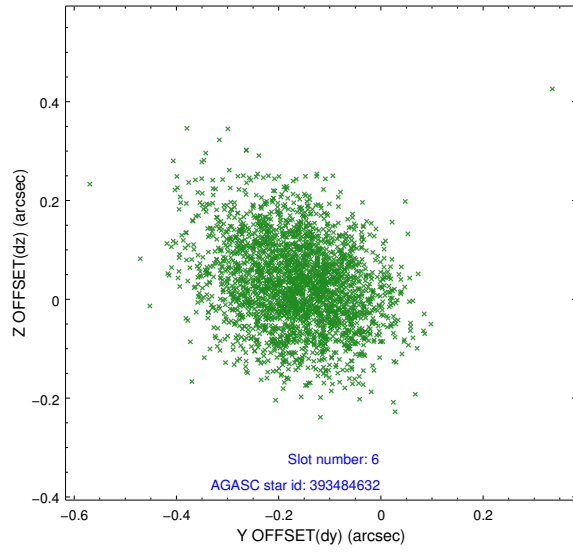
## 2.4.2 Slot 4



### 2.4.3 Slot 5

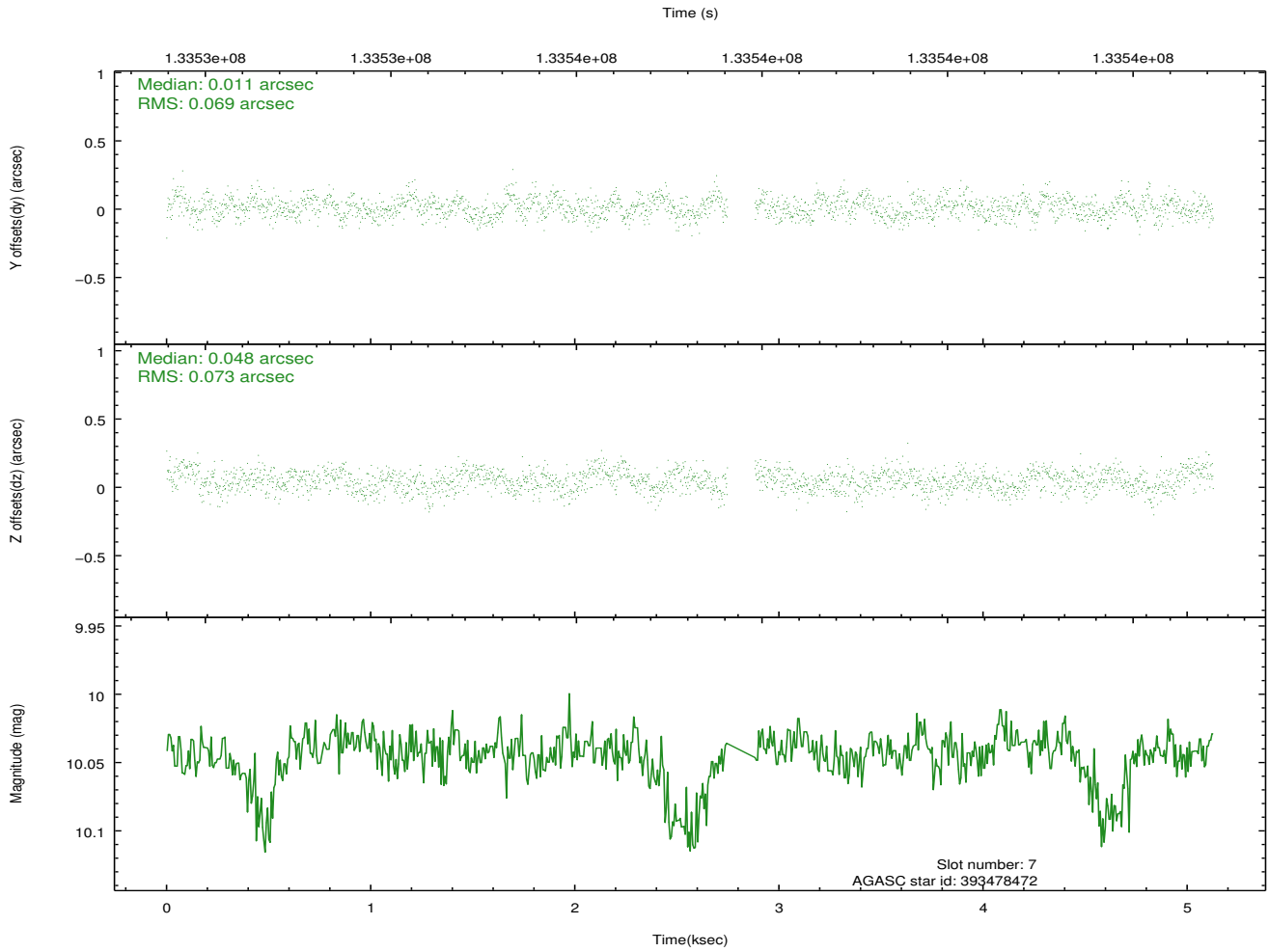
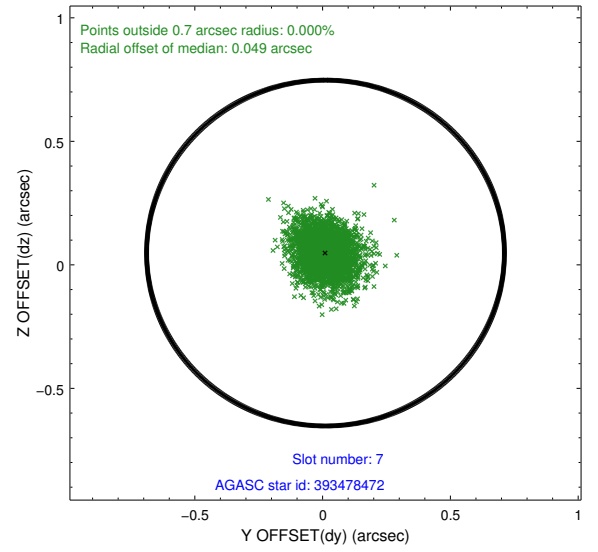
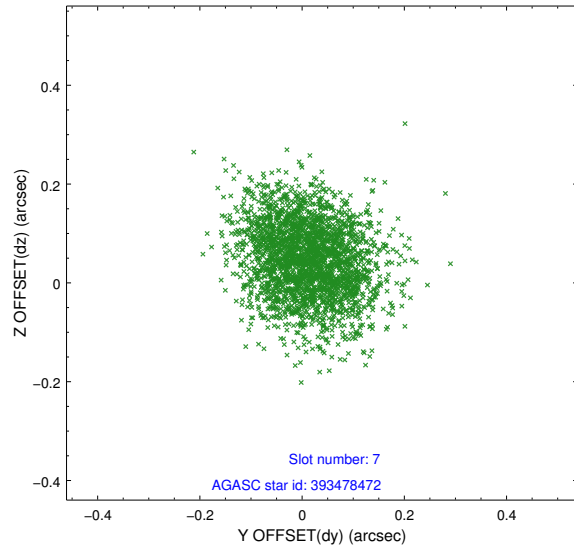


## 2.4.4 Slot 6



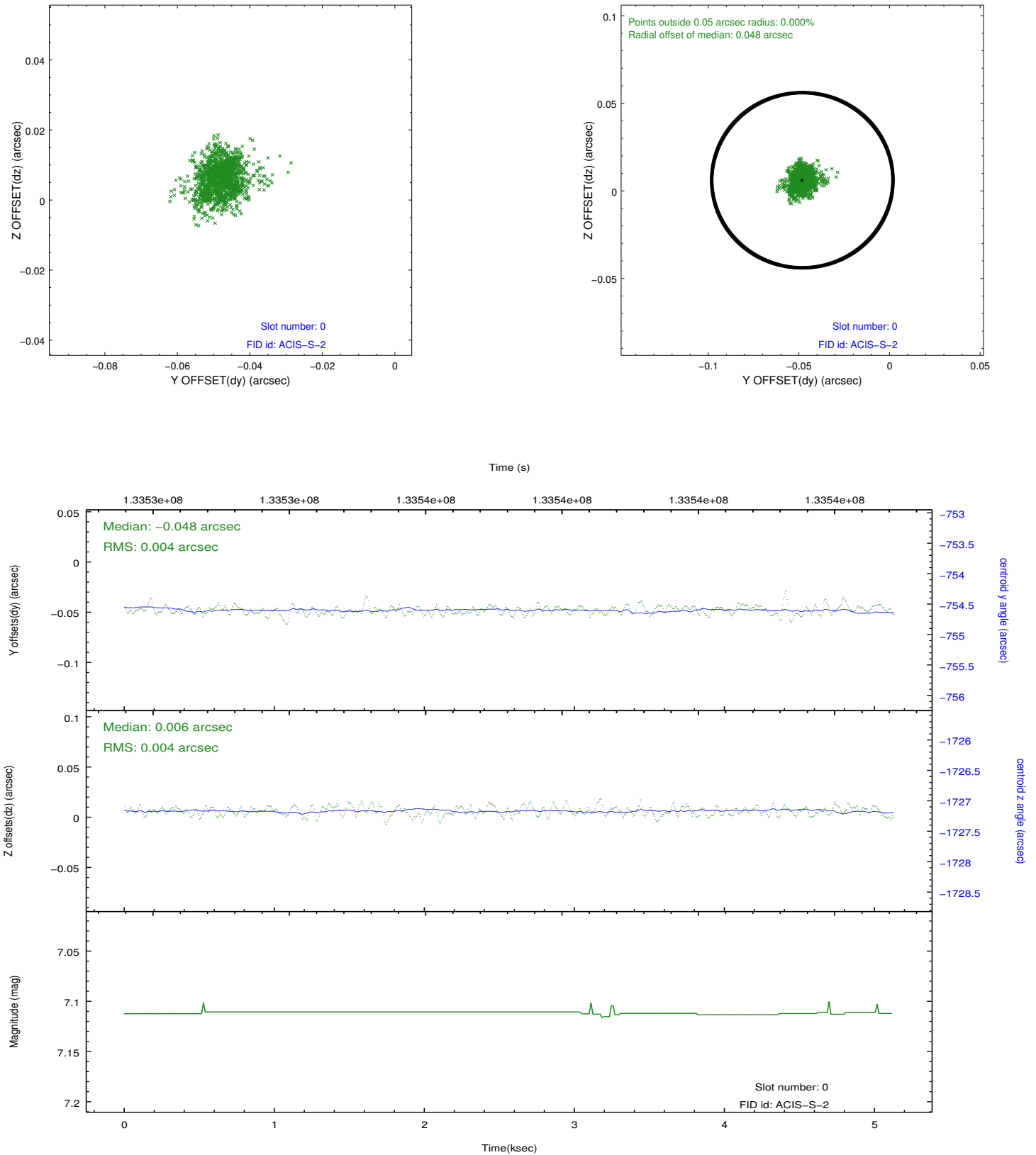


## 2.4.5 Slot 7

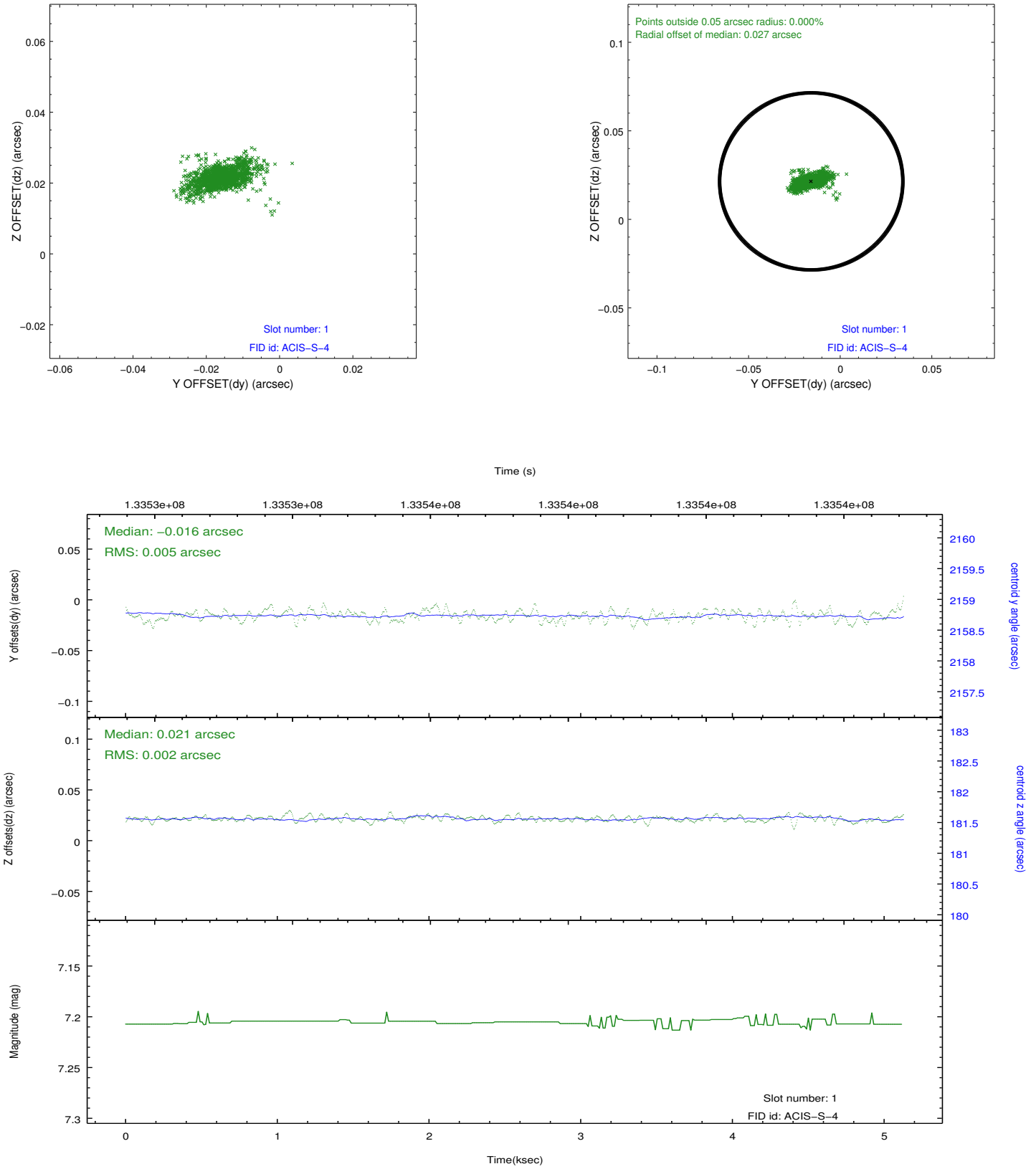


## 2.5 FID Slots

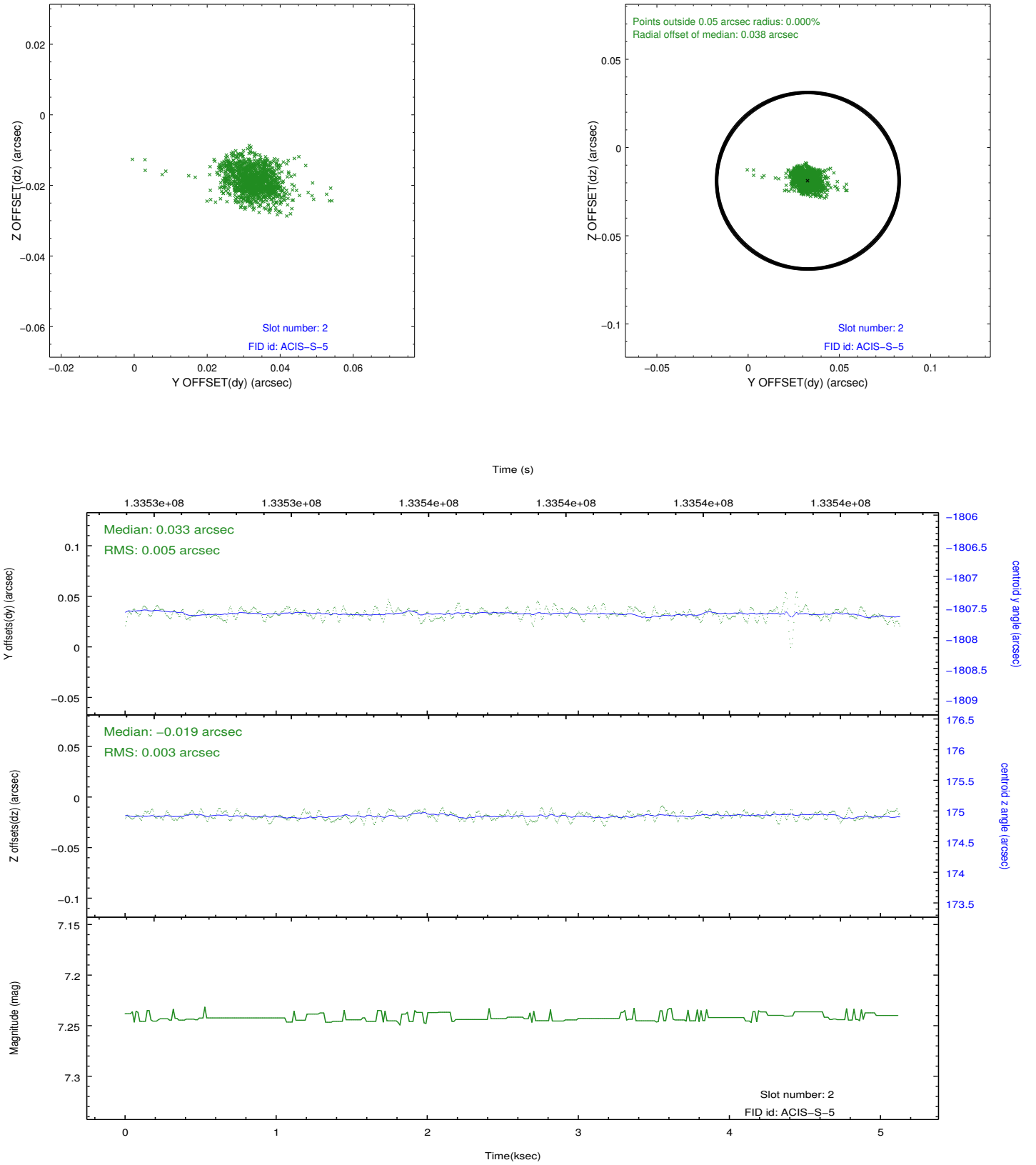
### 2.5.1 Slot 0



## 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)	2012.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.12

## A.2 Comments

Joint proposal with NOAO.