

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13560 - L2 Version 2  
Chandra X-Ray Center

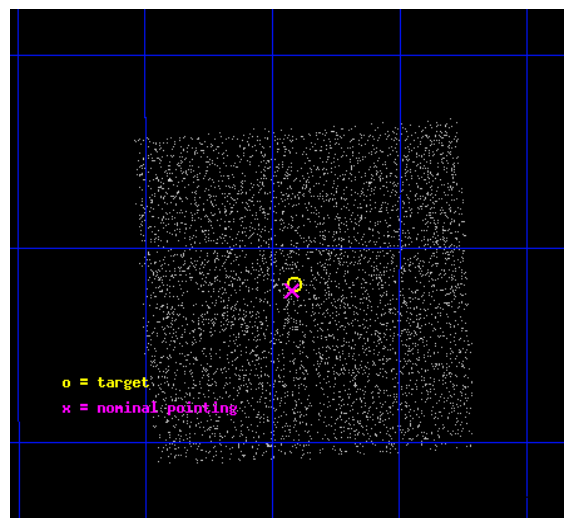
L2 Processing Date : Feb 26 2012

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# 1 Front

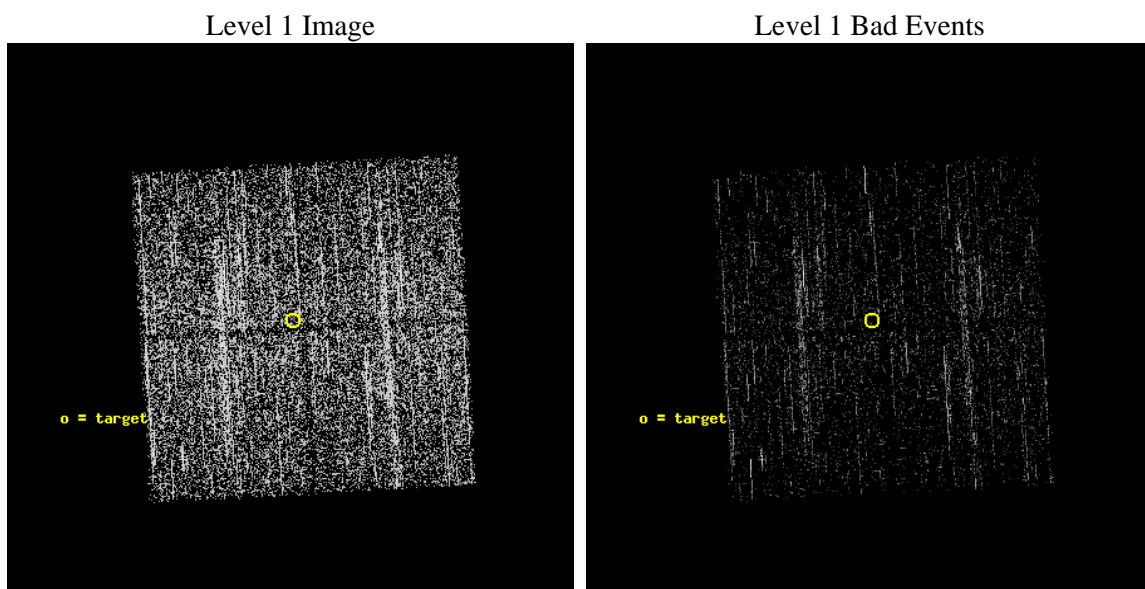
seq_num	401336	Sequence number
obs_id	13560	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-3	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	269.853565	Observer's specified target RA [deg]
dec_targ	-27.530855	Observer's specified target Dec [deg]
ra_nom	269.85606530954	Nominal RA [deg]
dec_nom	-27.536449831639	Nominal Dec [deg]
roll_nom	266.73755125975	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1971.6000151634	Sum of GTIs [s]
livetime	1945.8396094945	Livetime [s]
ontime0	1971.6000151634	Sum of GTIs [s]
ontime1	1971.6000151634	Sum of GTIs [s]
ontime2	1971.6000151634	Sum of GTIs [s]
ontime3	1971.6000151634	Sum of GTIs [s]
l2events	5684	Number of level 2 events



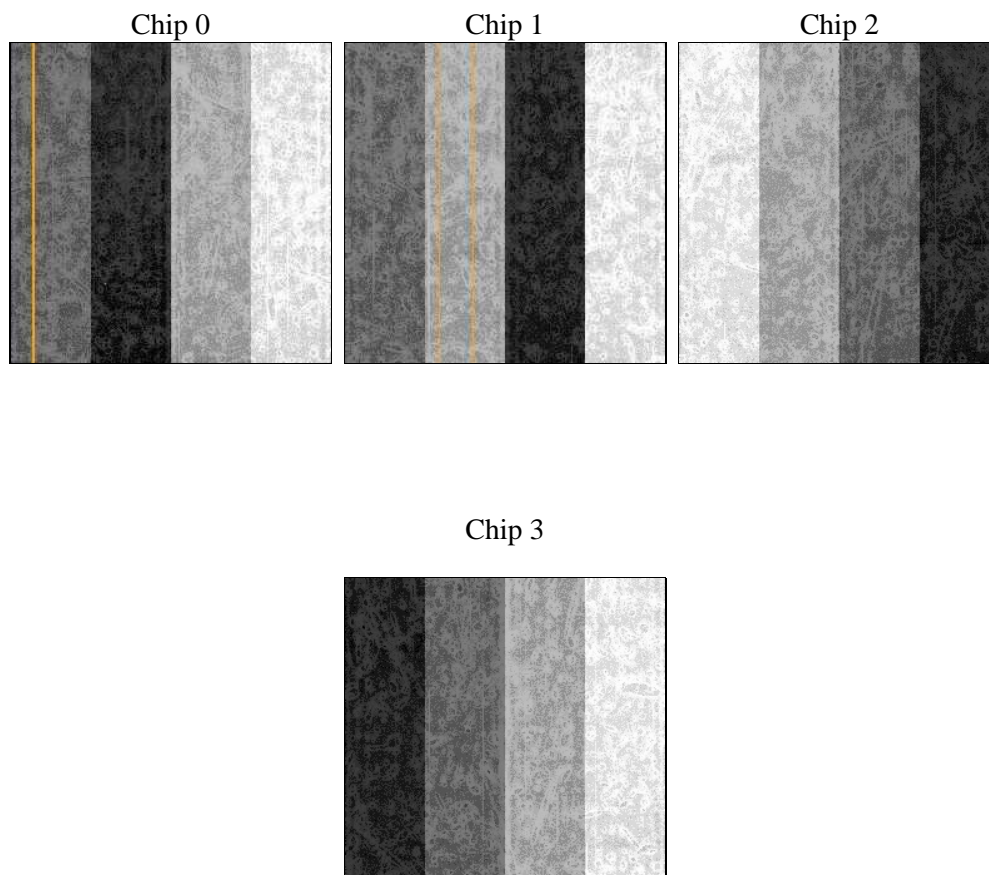
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2180.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	1971.6000151634	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1971.6000151634	Sum of GTIs [s]
date	2012-02-26T02:33:45	Date and time of file creation	ontime1	1971.6000151634	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	1971.6000151634	Sum of GTIs [s]
			ontime3	1971.6000151634	Sum of GTIs [s]
			l1events	46949	Number of level 1 events

### 2.1.4 Events

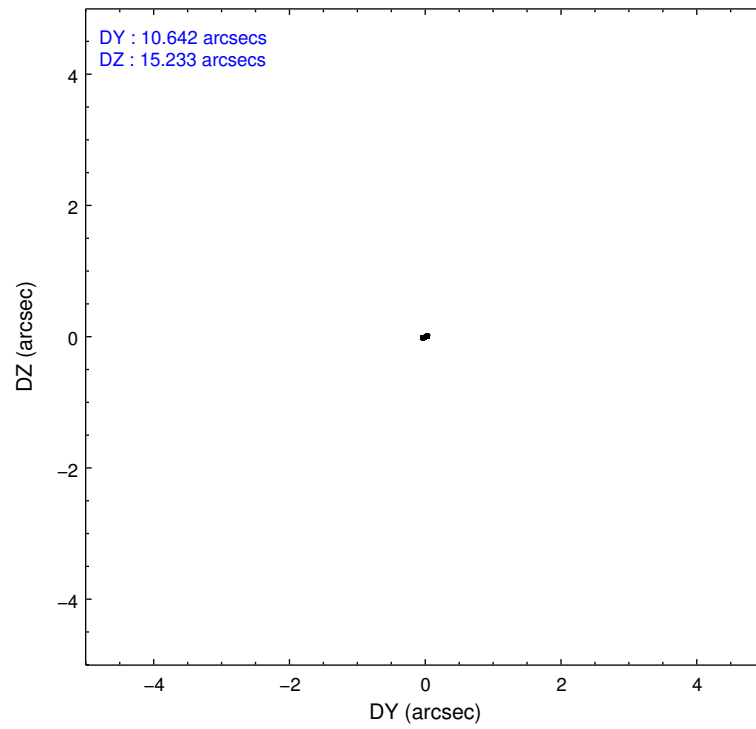
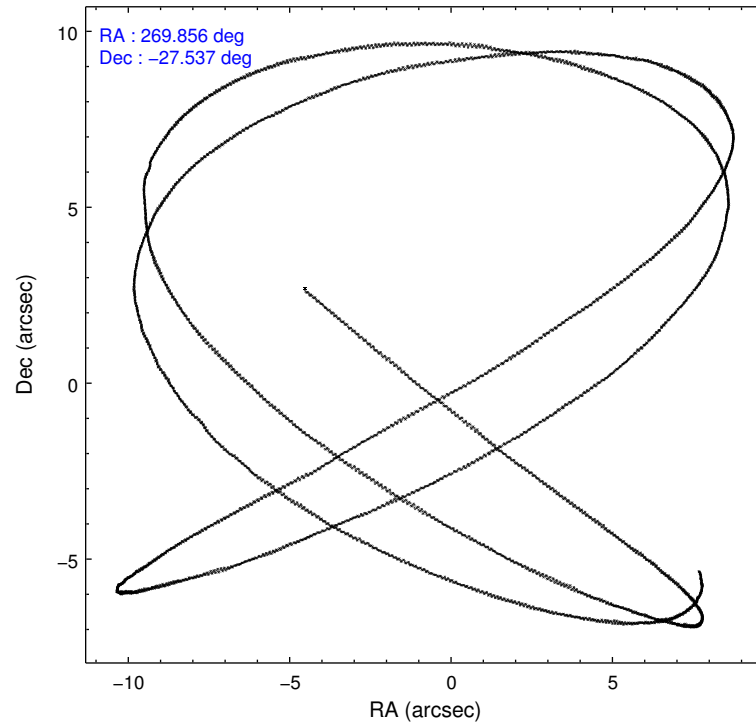
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	11639	11104	11994	12212
rejected events	9941	9337	10362	10685
rejected %	85%	84%	86%	87%

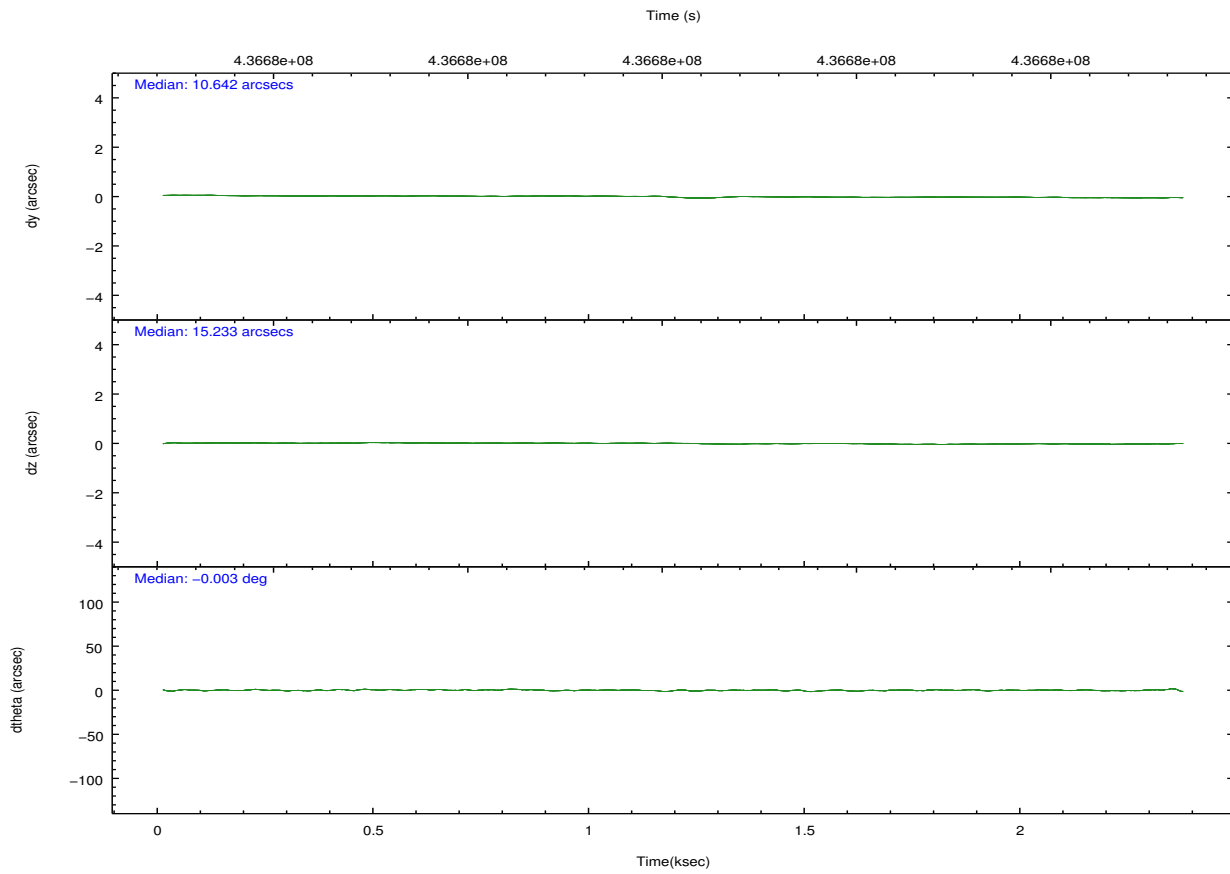
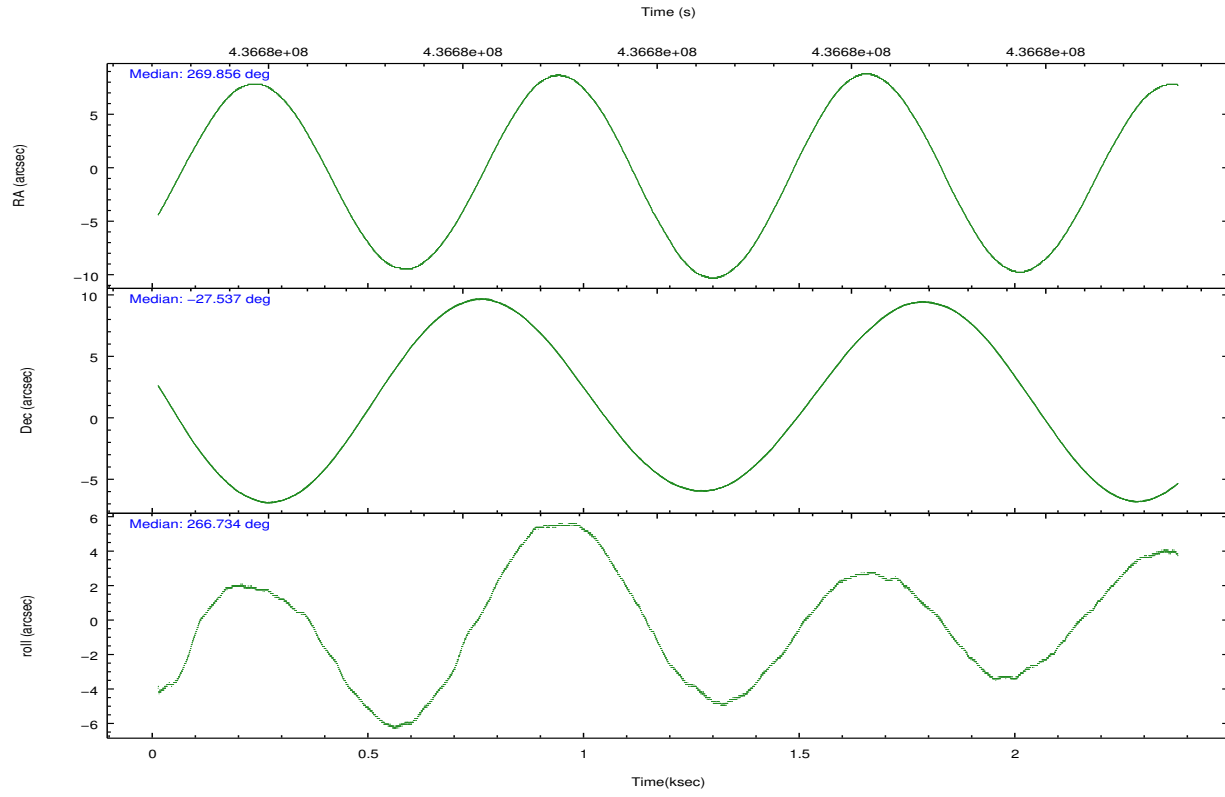
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	717	739	697	637
	6%	6%	5%	5%
grade 1 events	7	6	7	12
	0%	0%	0%	0%
grade 2 events	373	411	360	304
	3%	3%	3%	2%
grade 3 events	160	152	122	134
	1%	1%	1%	1%
grade 4 events	151	163	164	185
	1%	1%	1%	1%
grade 5 events	528	561	472	549
	4%	5%	3%	4%
grade 6 events	303	306	291	272
	2%	2%	2%	2%
grade 7 events	9400	8766	9881	10119
	80%	78%	82%	82%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	269.841884	269.8560653095385	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.511695	-27.53644983163887	Alternating exposures requested	N	N
[deg] Pointing Roll	266.522328	266.7375512597521	[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)	436681542.184000	436681166.49034			
Observation start date	2011-11-03T04:24:36	2011-11-03T04:19:26			
[s] Observation end time (MET)	436683722.184000	436683957.05298			
Observation end date	2011-11-03T05:00:56	2011-11-03T05:05:57			
Read mode	TIMED	TIMED			

## 2.3 Aspect





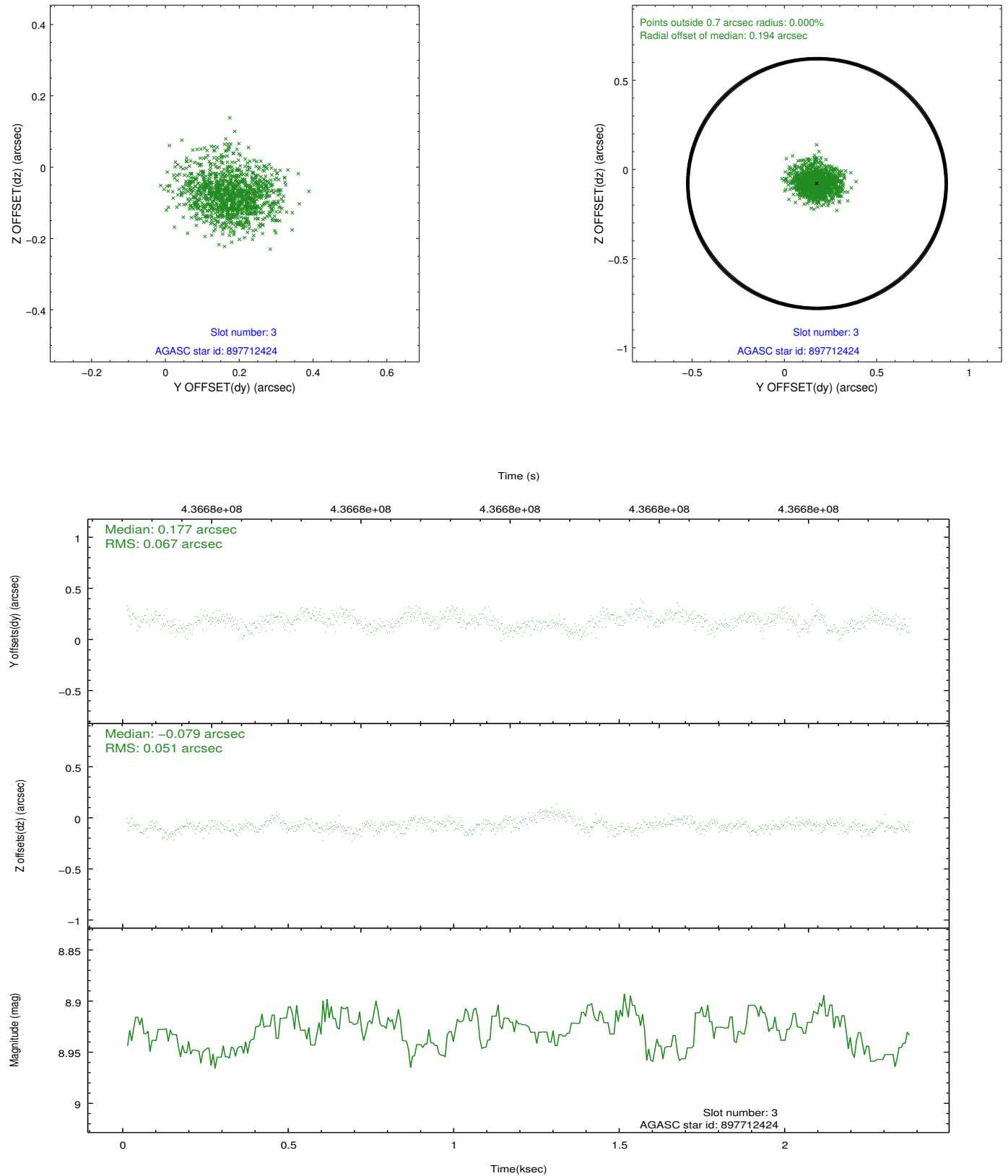
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	577	0.112	-0.008	0.007	0.012	0.000000	0.000000	929.07	-838.82
1	FID	ACIS-I-2	6.93	577	-0.066	-0.083	0.010	0.017	0.000000	0.000000	-763.67	-846.75
2	FID	ACIS-I-5	7.01	577	-0.138	0.164	0.008	0.012	0.000000	0.000000	-1820.74	1057.38
3	GUIDE	897712424	8.93	1155	0.177	-0.079	0.090	0.144	269.567786	-28.090711	2133.99	-742.70
4	GUIDE	897716896	7.36	1154	-0.250	-0.097	0.068	0.112	269.902616	-27.069631	-1599.30	96.66
5	GUIDE	897858520	8.87	1155	-0.119	0.201	0.084	0.147	270.349062	-26.978172	-2013.61	1507.74
6	GUIDE	897860240	8.00	1155	-0.009	0.019	0.066	0.106	270.464638	-27.877318	1196.13	2059.37
7	GUIDE	898236888	8.72	1153	0.199	-0.057	0.098	0.150	269.539947	-28.141730	2323.94	-817.52

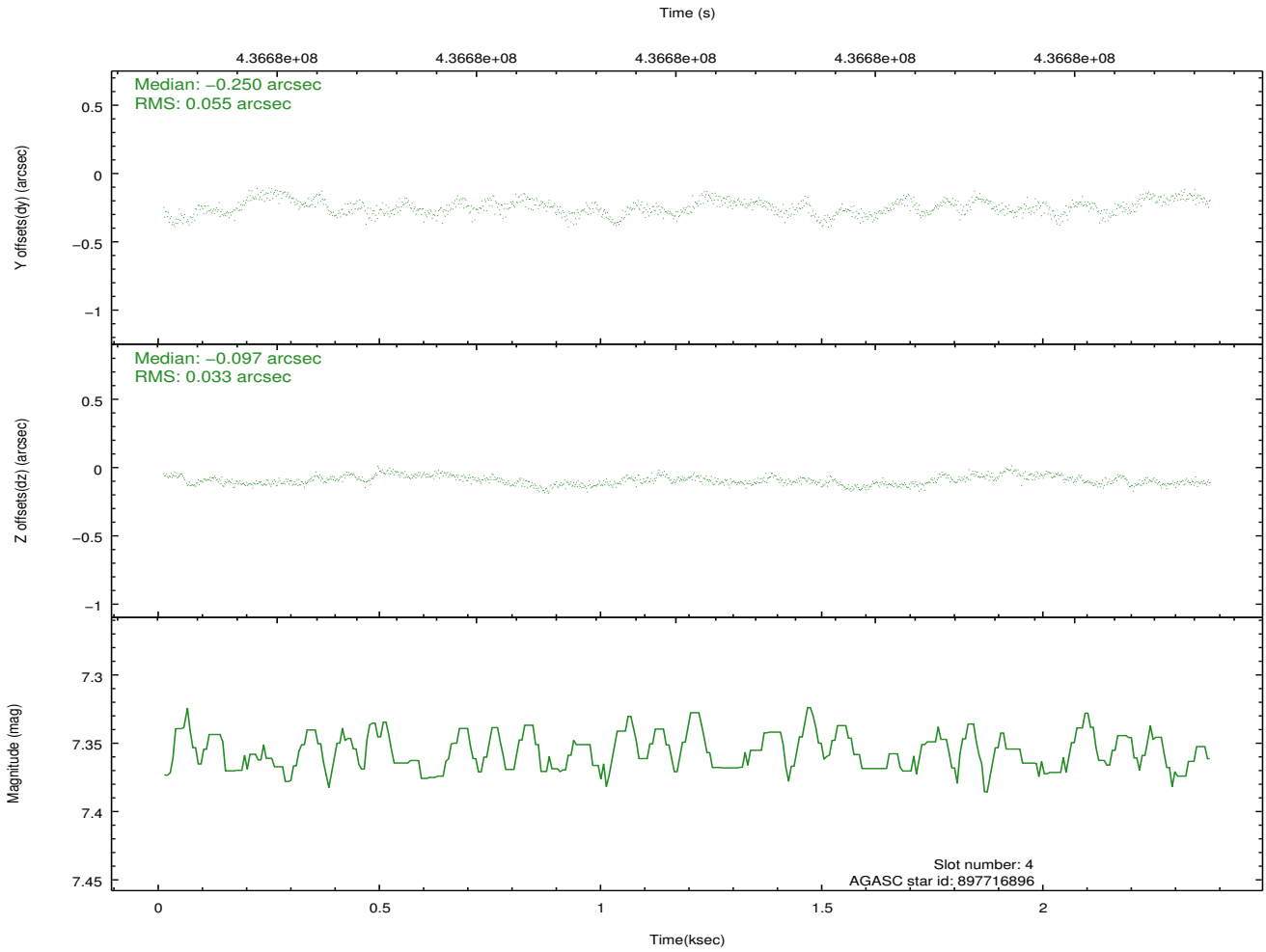
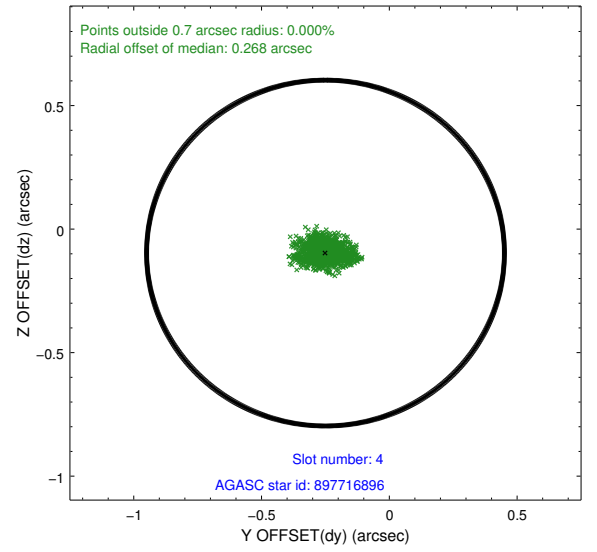
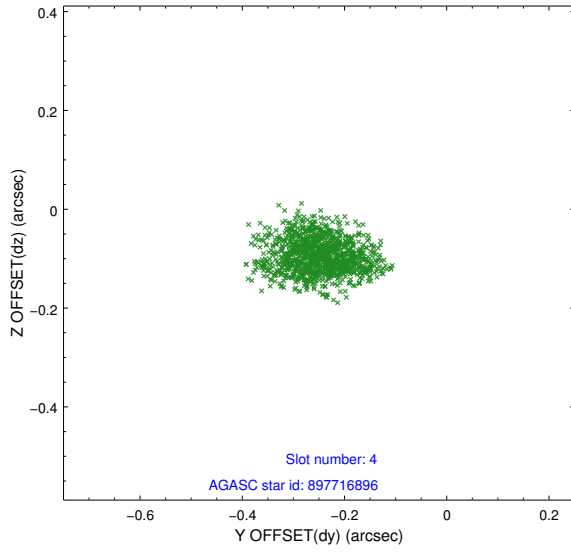


## 2.4 Star Slots

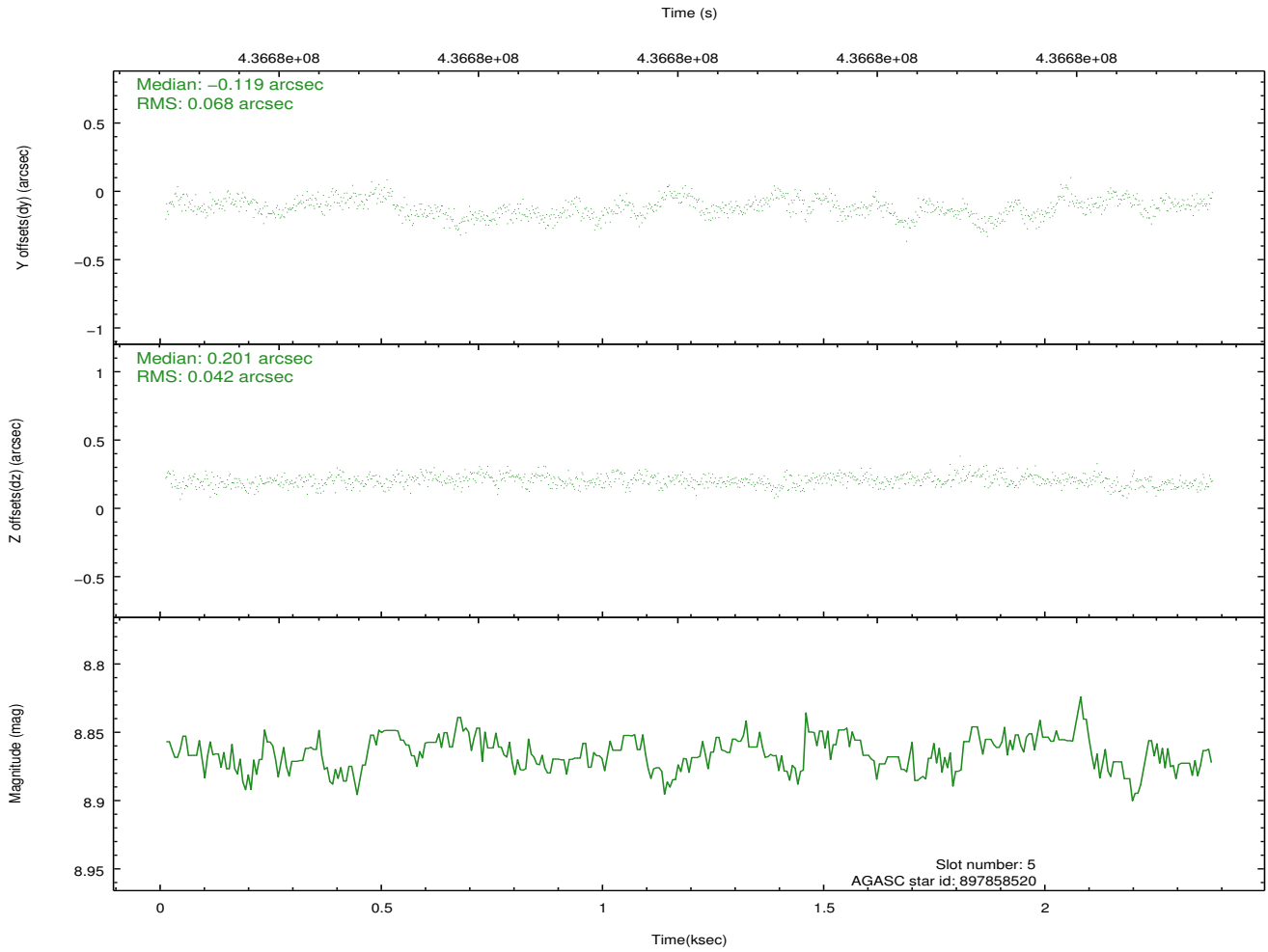
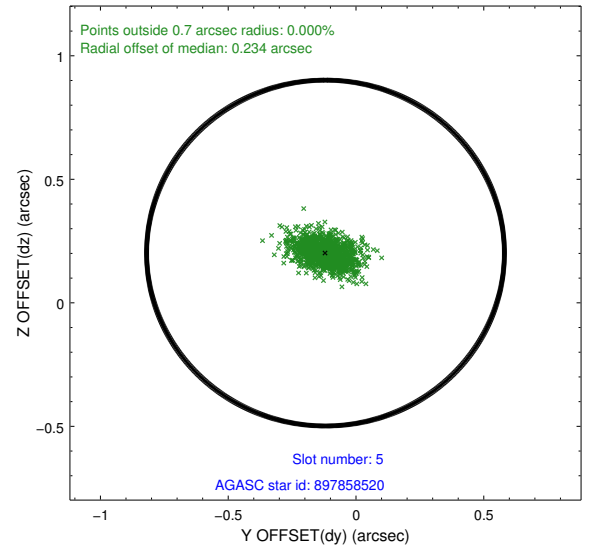
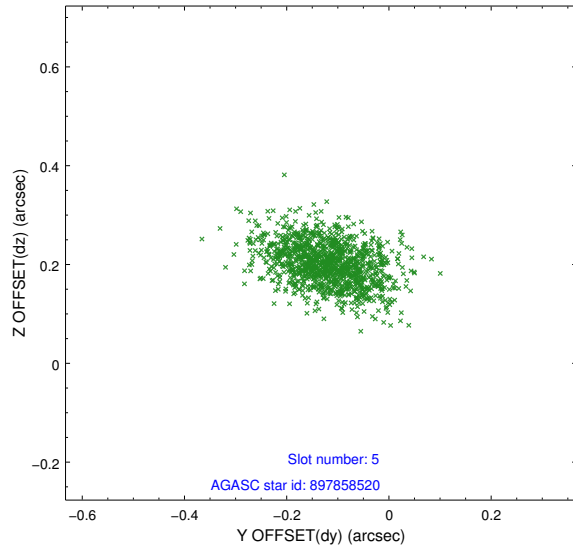
### 2.4.1 Slot 3



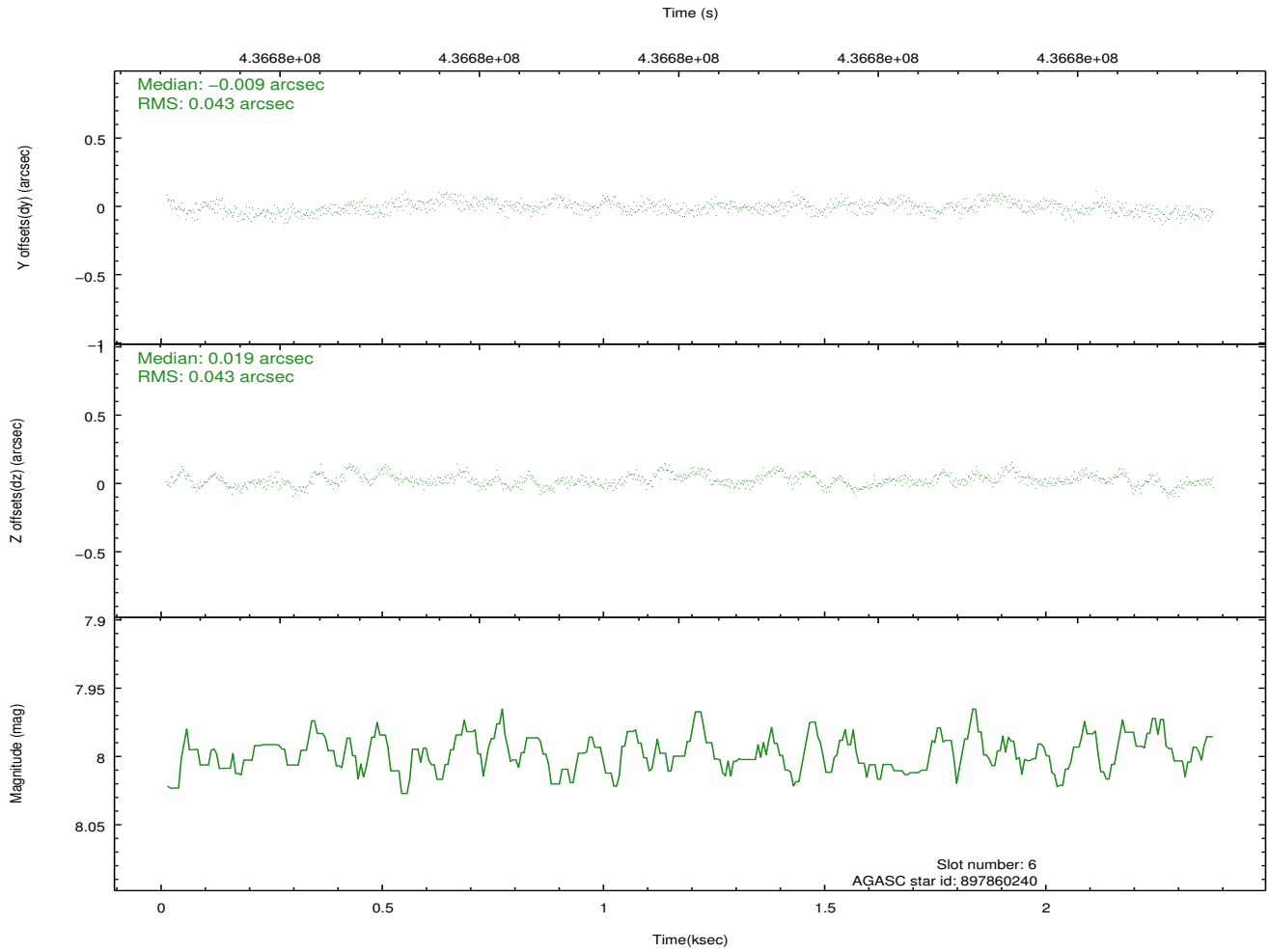
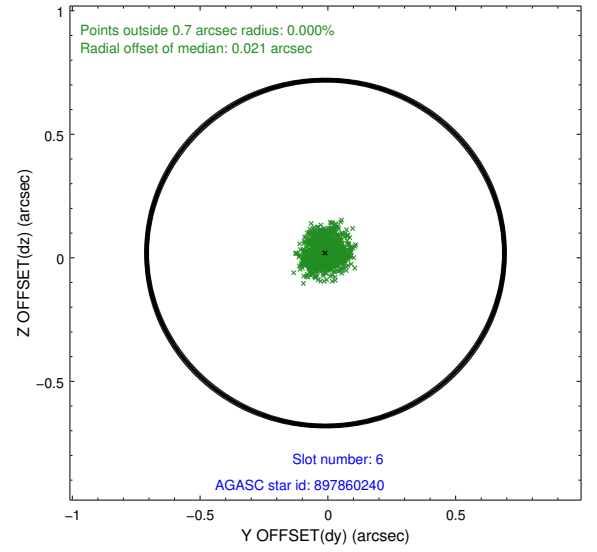
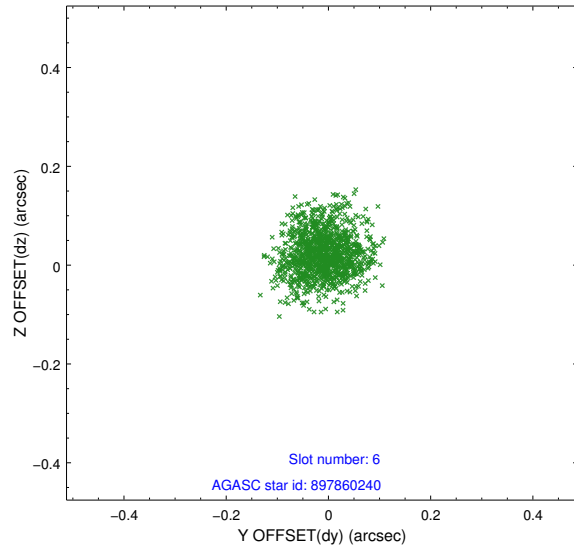
## 2.4.2 Slot 4



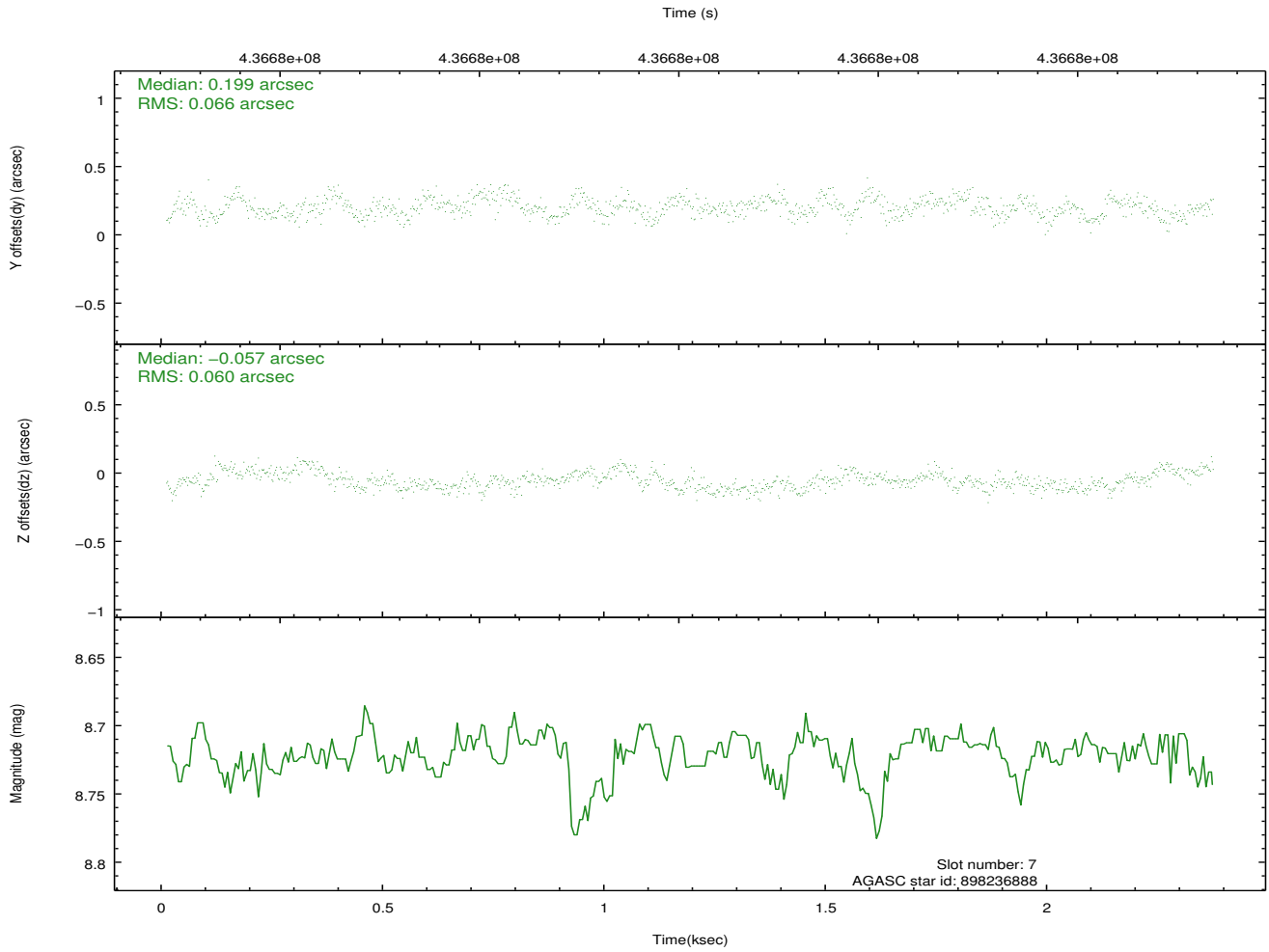
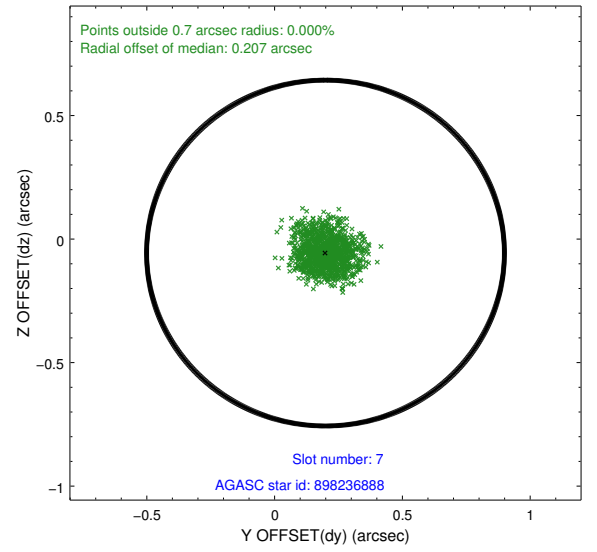
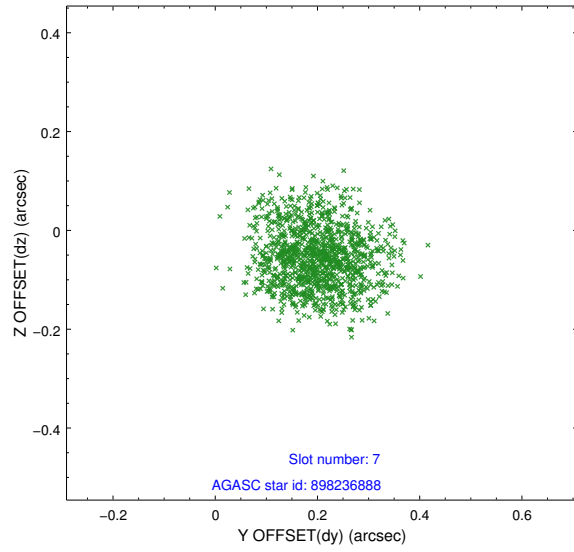
### 2.4.3 Slot 5



## 2.4.4 Slot 6

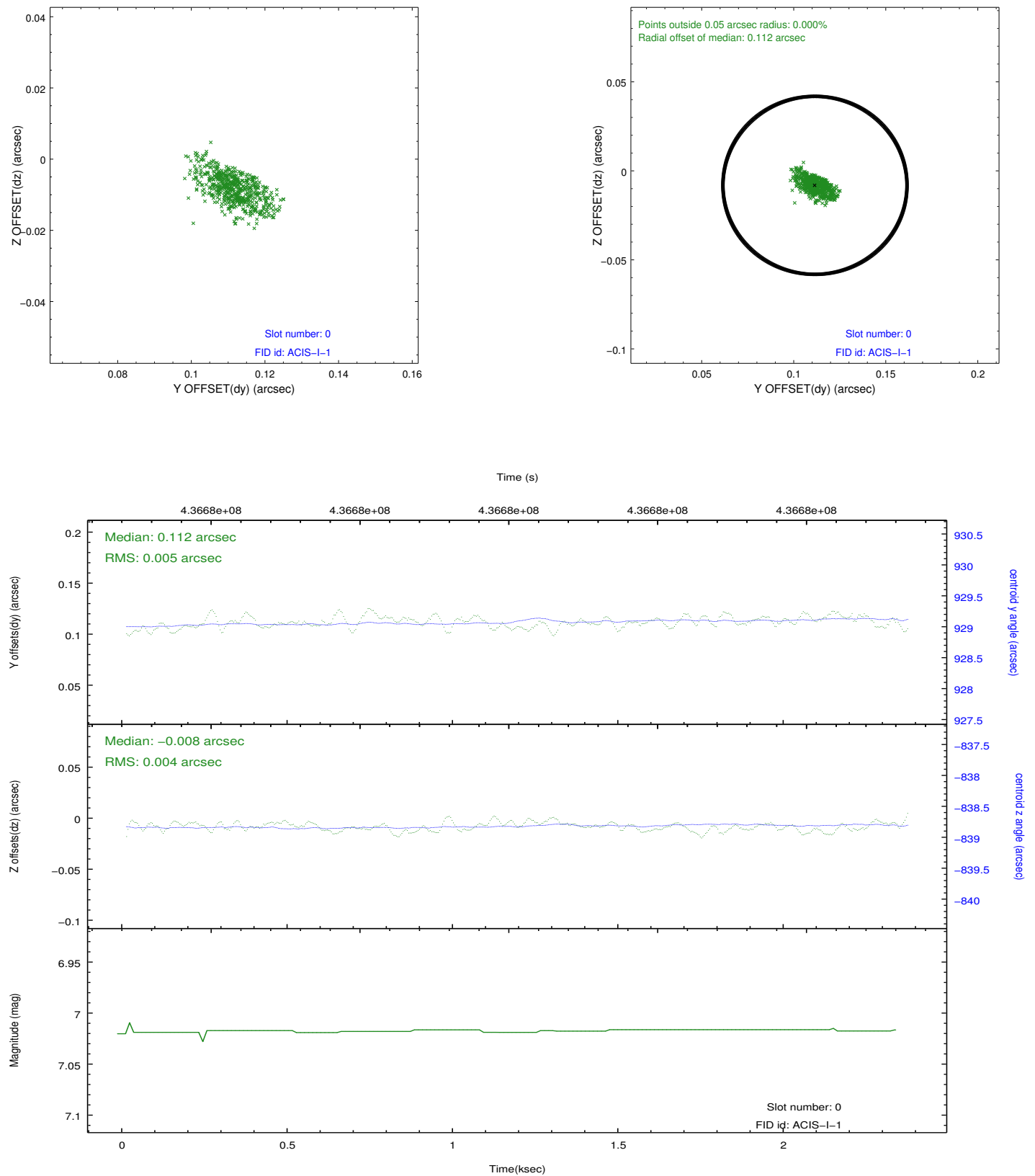


## 2.4.5 Slot 7

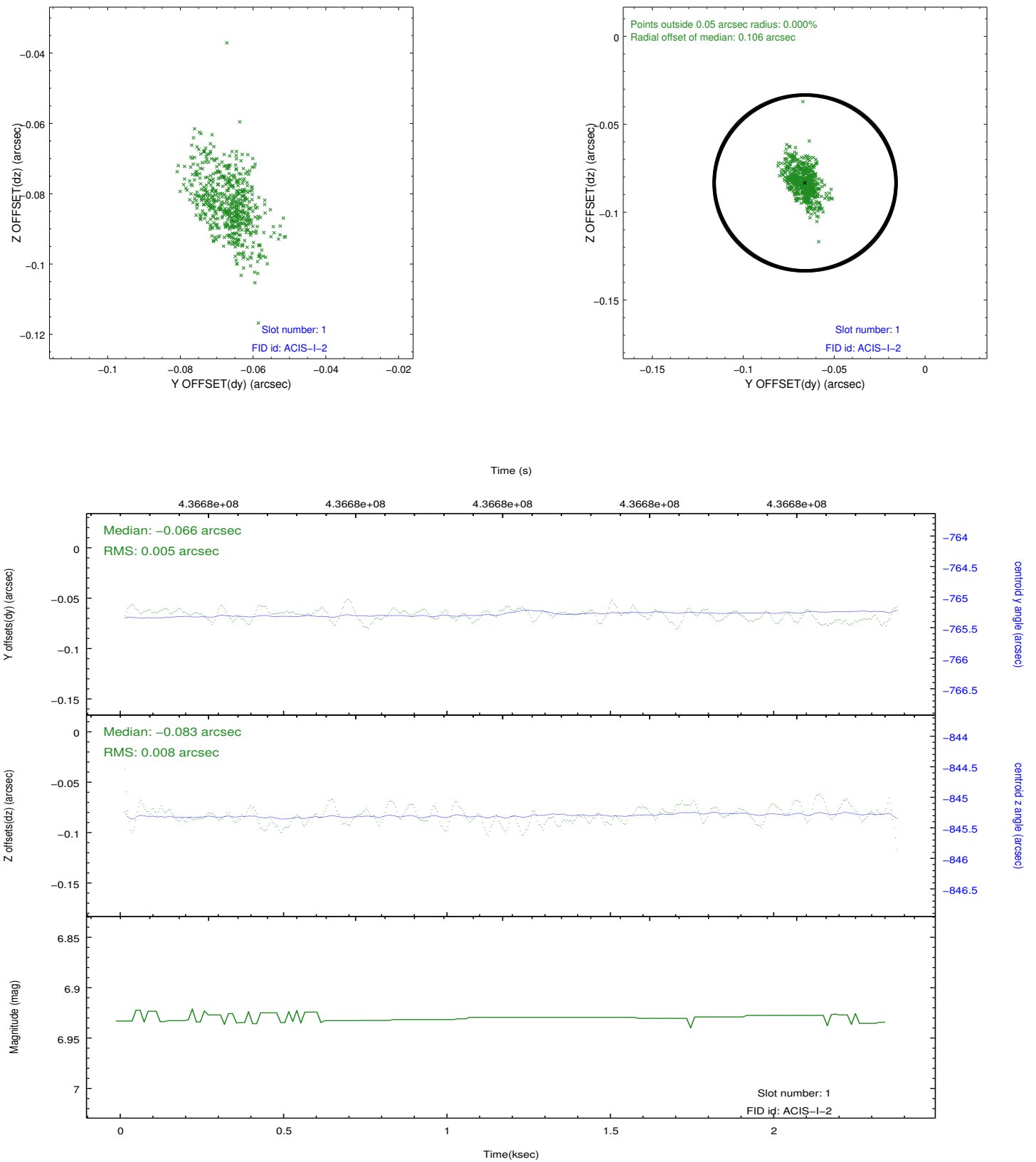


## 2.5 FID Slots

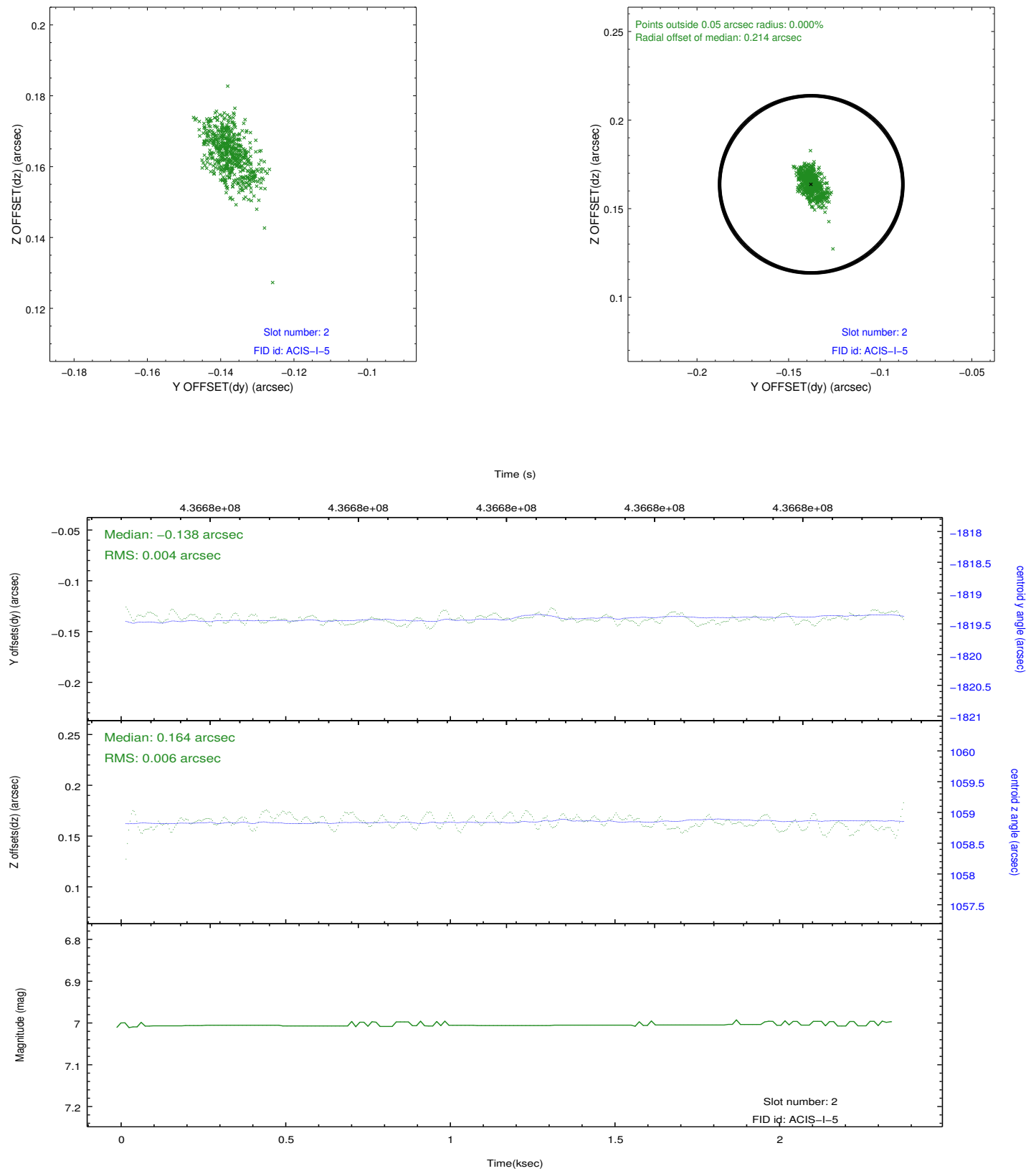
### 2.5.1 Slot 0



## 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)	2012.02.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9716000151634

## A.2 Comments

Joint proposal with NOAO.