

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 9987 - L2 Version 2  
Chandra X-Ray Center

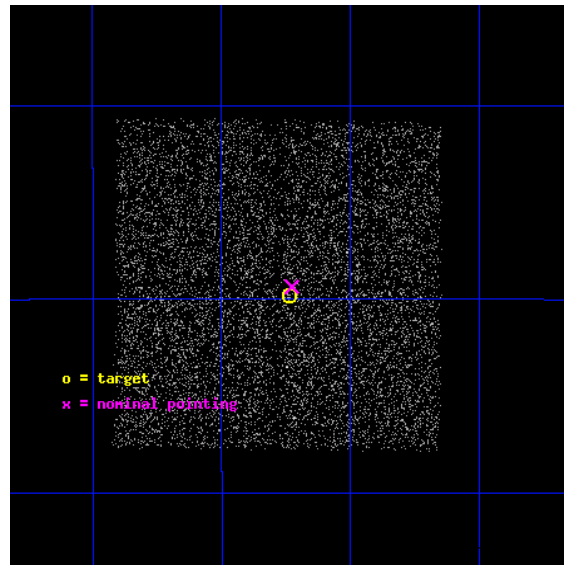
L2 Processing Date : Jun 1 2012

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# 1 Front

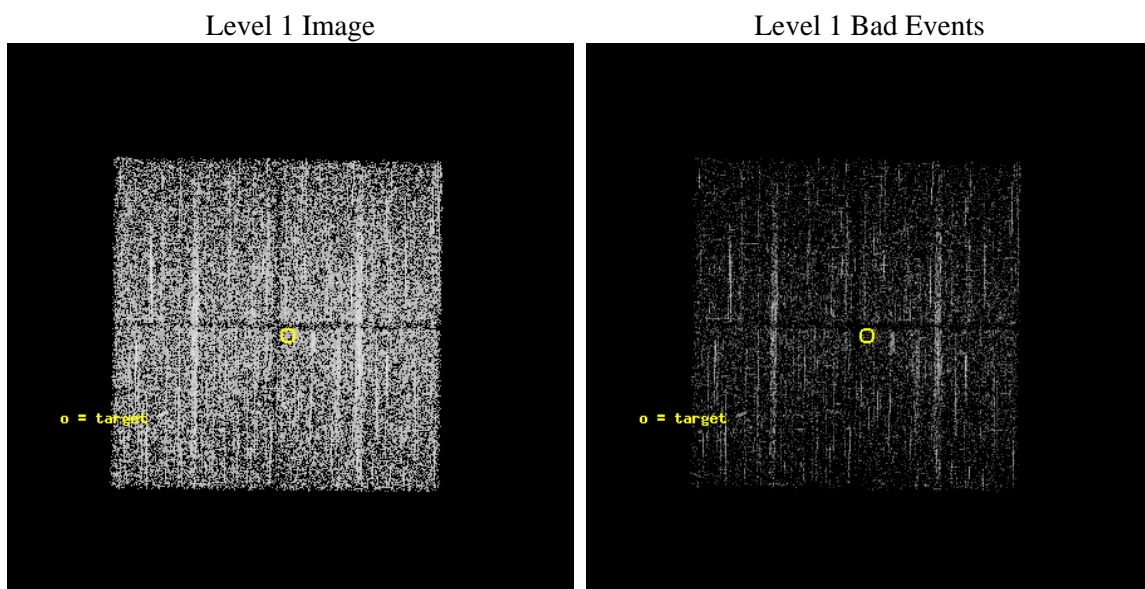
seq_num	400951	Sequence number
obs_id	9987	Observation id
title	Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS1-10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.184583	Observer's specified target RA [deg]
dec_targ	-25.996972	Observer's specified target Dec [deg]
ra_nom	266.18183238718	Nominal RA [deg]
dec_nom	-25.989455494204	Nominal Dec [deg]
roll_nom	90.653634107646	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2191.7000168562	Sum of GTIs [s]
livetime	2163.0638426299	Livetime [s]
ontime0	2191.7000168562	Sum of GTIs [s]
ontime1	2188.559086442	Sum of GTIs [s]
ontime2	2191.7000168562	Sum of GTIs [s]
ontime3	2191.7000168562	Sum of GTIs [s]
l2events	10427	Number of level 2 events



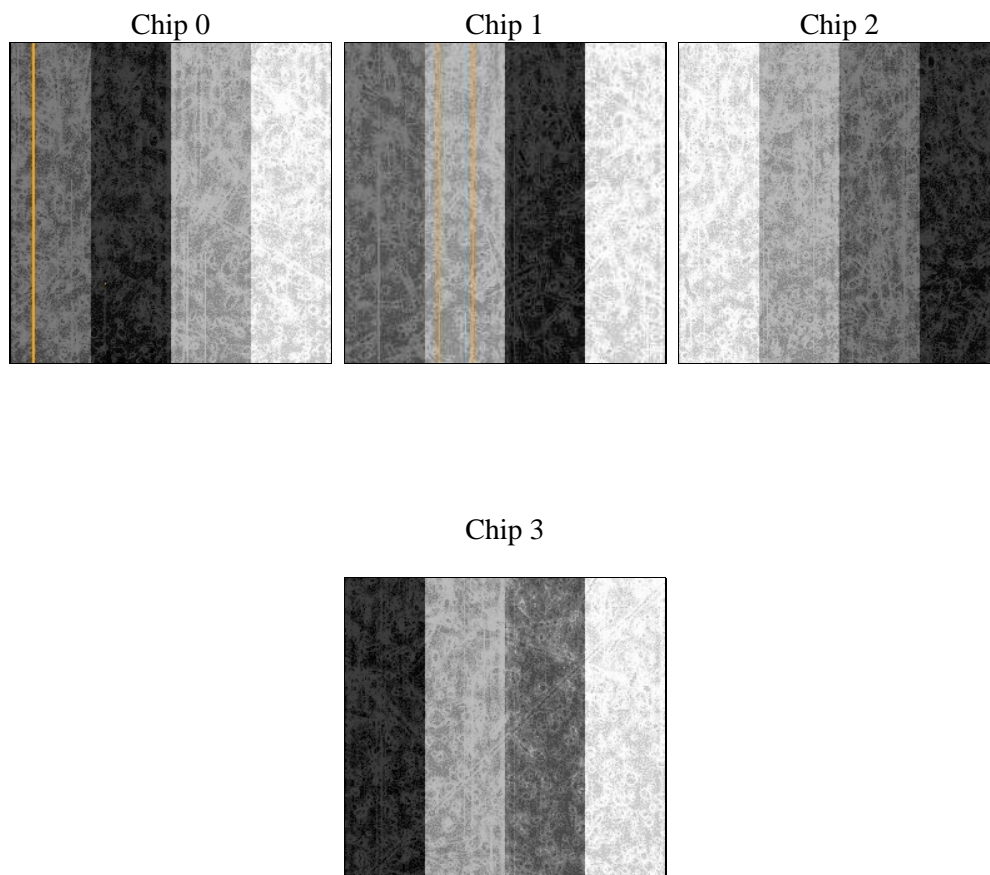
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.4	Processing system revision	ontime	2191.7000168562	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2191.7000168562	Sum of GTIs [s]
date	2012-06-01T08:04:00	Date and time of file creation	ontime1	2188.559086442	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2191.7000168562	Sum of GTIs [s]
			ontime3	2191.7000168562	Sum of GTIs [s]
			l1events	99535	Number of level 1 events

### 2.1.4 Events

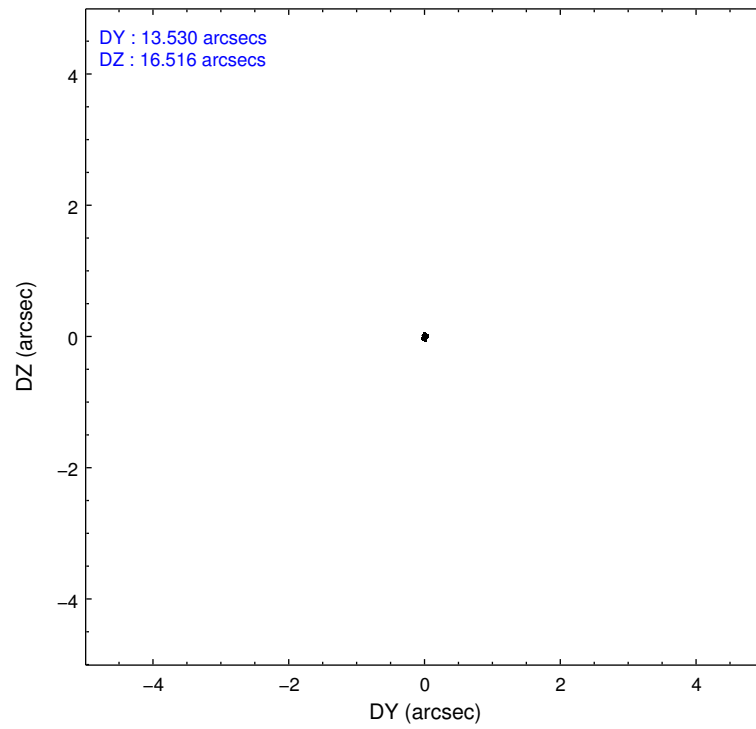
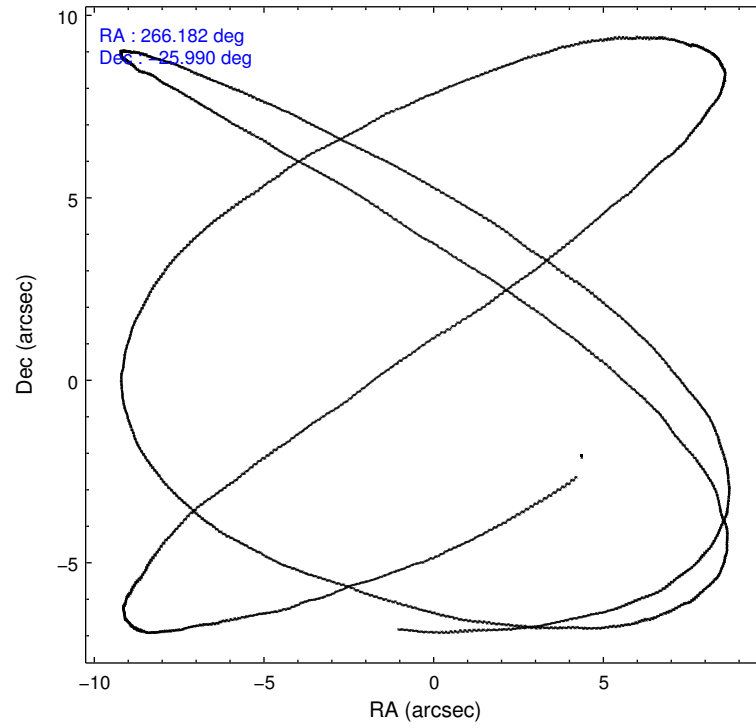
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	23584	25123	25231	25597
rejected events	20568	22041	22251	22621
rejected %	87%	87%	88%	88%

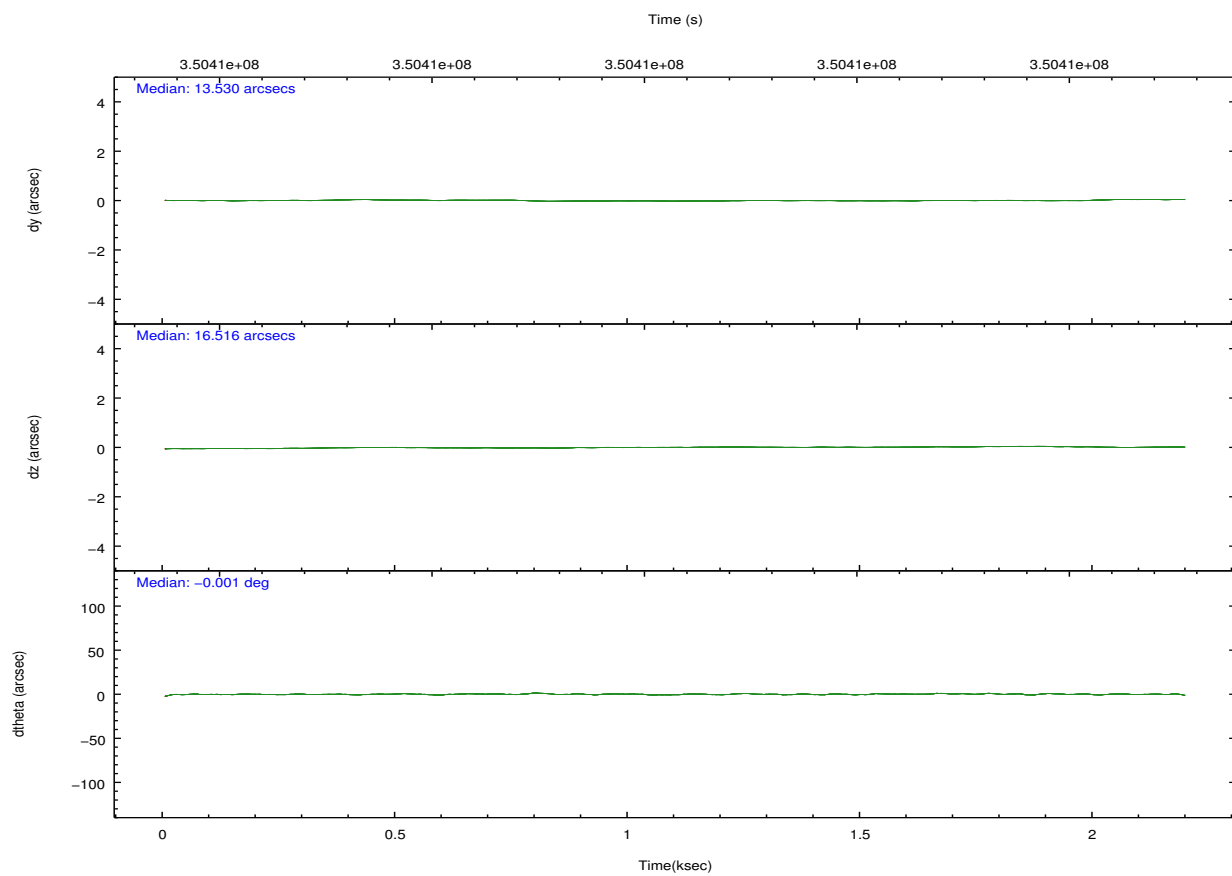
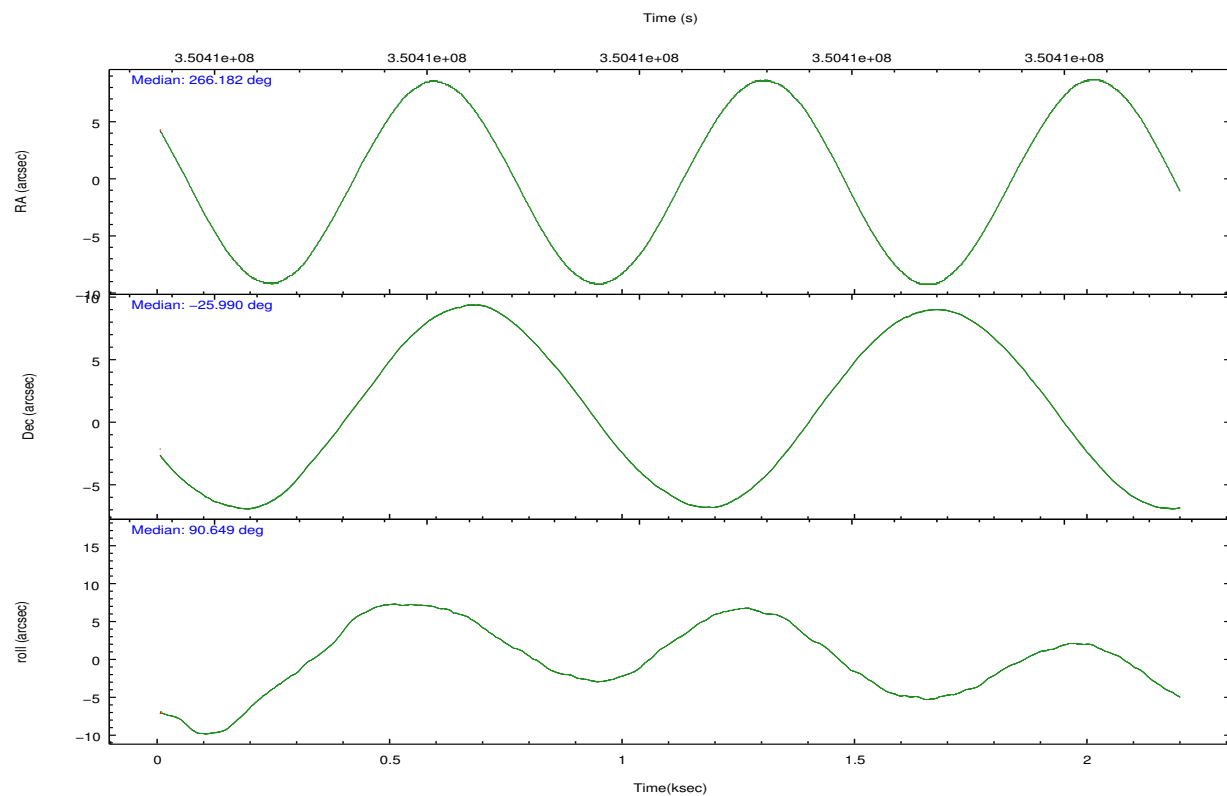
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1498	1408	1626	1563
	6%	5%	6%	6%
grade 1 events	22	12	21	26
	0%	0%	0%	0%
grade 2 events	786	863	677	657
	3%	3%	2%	2%
grade 3 events	331	322	297	318
	1%	1%	1%	1%
grade 4 events	309	291	274	306
	1%	1%	1%	1%
grade 5 events	1150	1192	1018	1216
	4%	4%	4%	4%
grade 6 events	538	649	516	569
	2%	2%	2%	2%
grade 7 events	18950	20386	20802	20942
	80%	81%	82%	81%

## 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	266.197518	266.18183238718	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.012871	-25.9894554942038	Alternating exposures requested	N	N
[deg] Pointing Roll	90.451817	90.65363410764625	[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)	350412168.184000	350411792.69641			
Observation start date	2009-02-07T16:41:42	2009-02-07T16:36:32			
[s] Observation end time (MET)	350414168.184000	350414302.92153			
Observation end date	2009-02-07T17:15:02	2009-02-07T17:18:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect





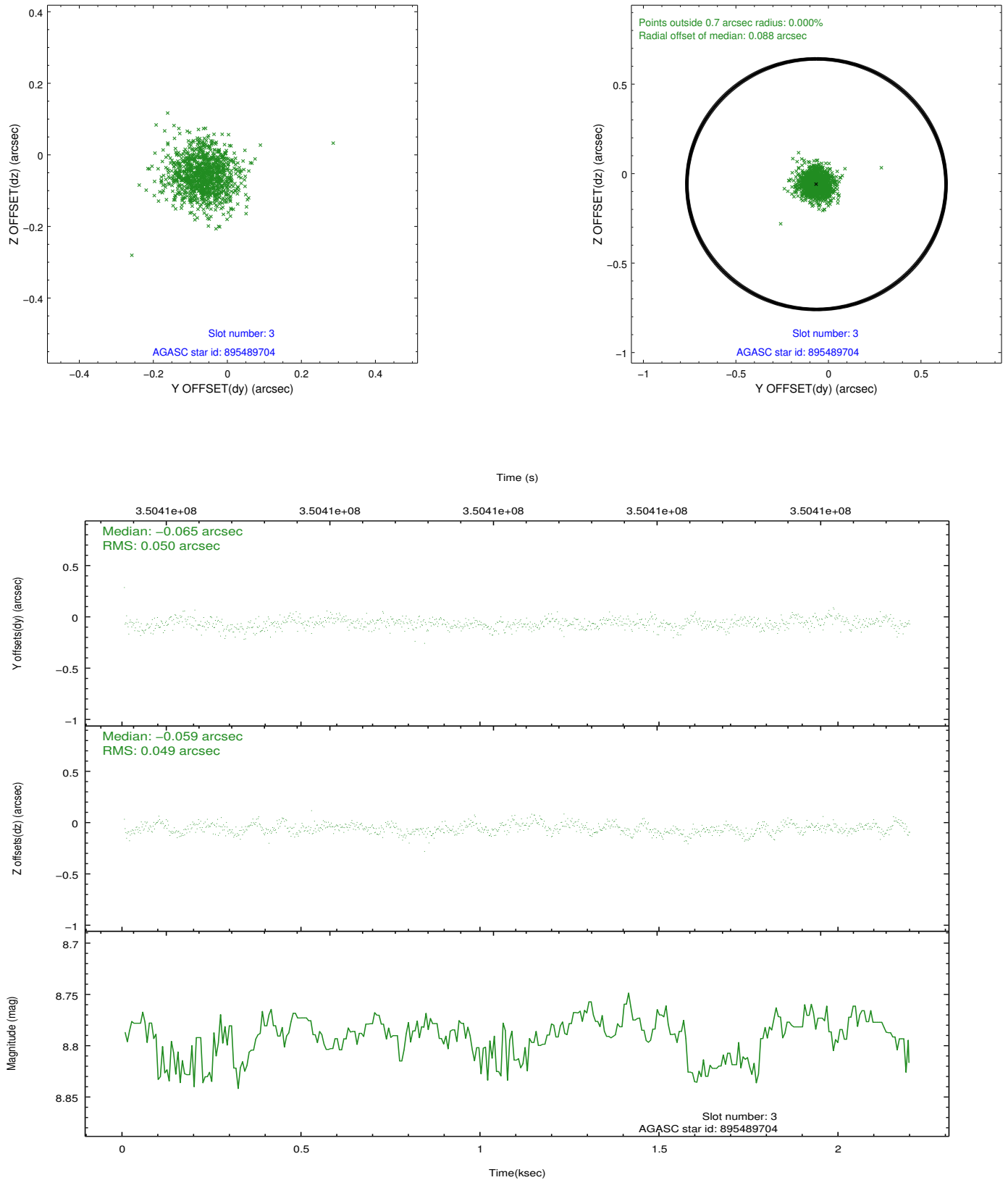
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	536	0.065	-0.037	0.006	0.010	0.000000	0.000000	926.01	-840.21
1	FID	ACIS-I-5	7.03	536	-0.202	0.069	0.005	0.009	0.000000	0.000000	-1820.68	1055.95
2	FID	ACIS-I-6	7.03	536	0.046	0.038	0.007	0.011	0.000000	0.000000	388.36	1703.74
3	GUIDE	895489704	8.79	1069	-0.065	-0.059	0.073	0.120	266.328076	-25.361339	2342.14	-442.96
4	GUIDE	895489896	7.57	1070	0.001	-0.013	0.049	0.081	266.605795	-26.200300	-683.95	-1313.62
5	GUIDE	896009584	9.25	1069	0.072	0.188	0.120	0.205	266.891313	-26.347528	-1227.83	-2229.47
6	GUIDE	896015112	9.16	1070	0.043	0.086	0.091	0.149	266.684847	-26.286161	-999.21	-1566.96
7	GUIDE	896015880	8.51	1070	-0.046	-0.202	0.078	0.131	265.986633	-26.306686	-1052.98	687.41

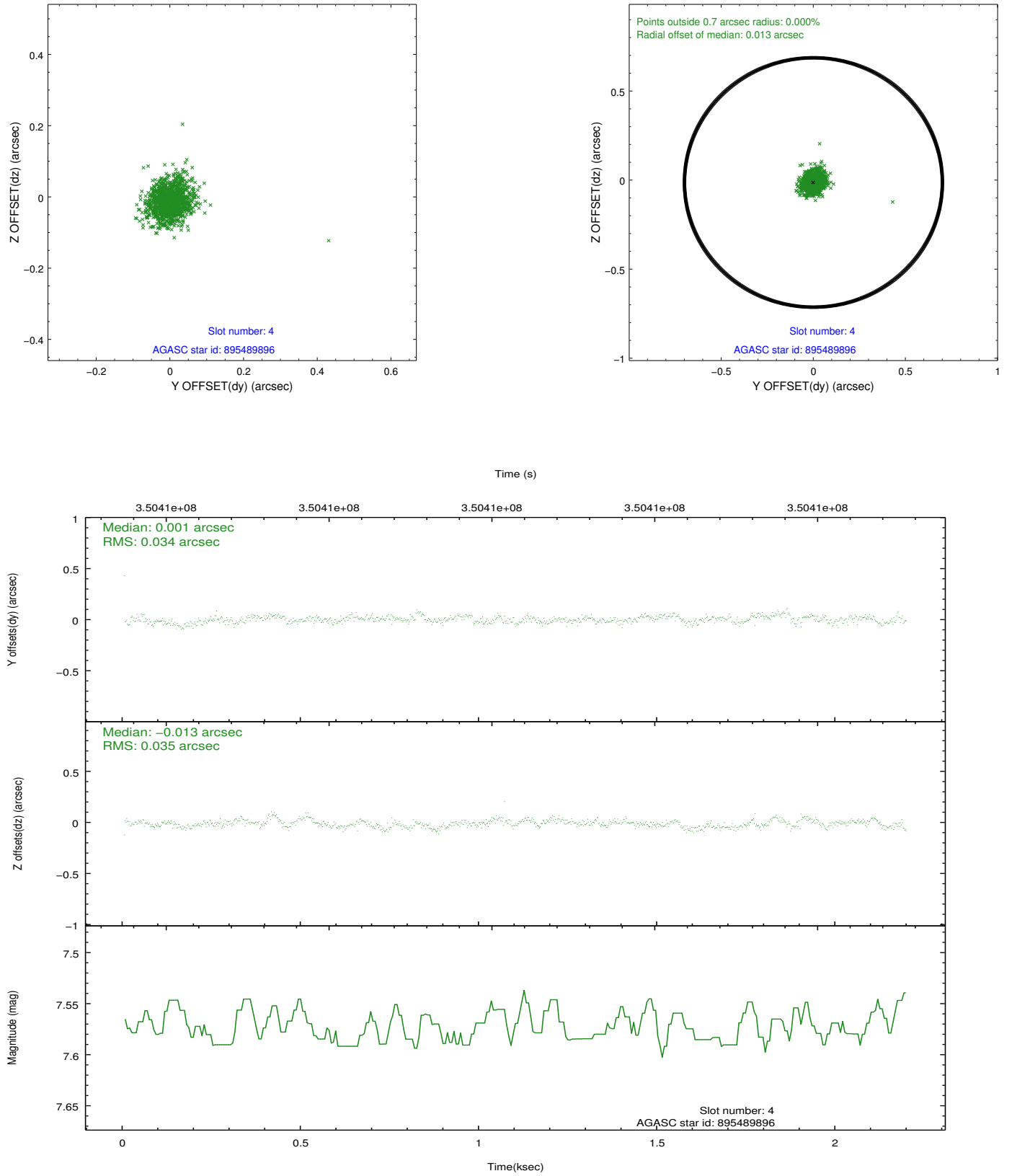


## 2.4 Star Slots

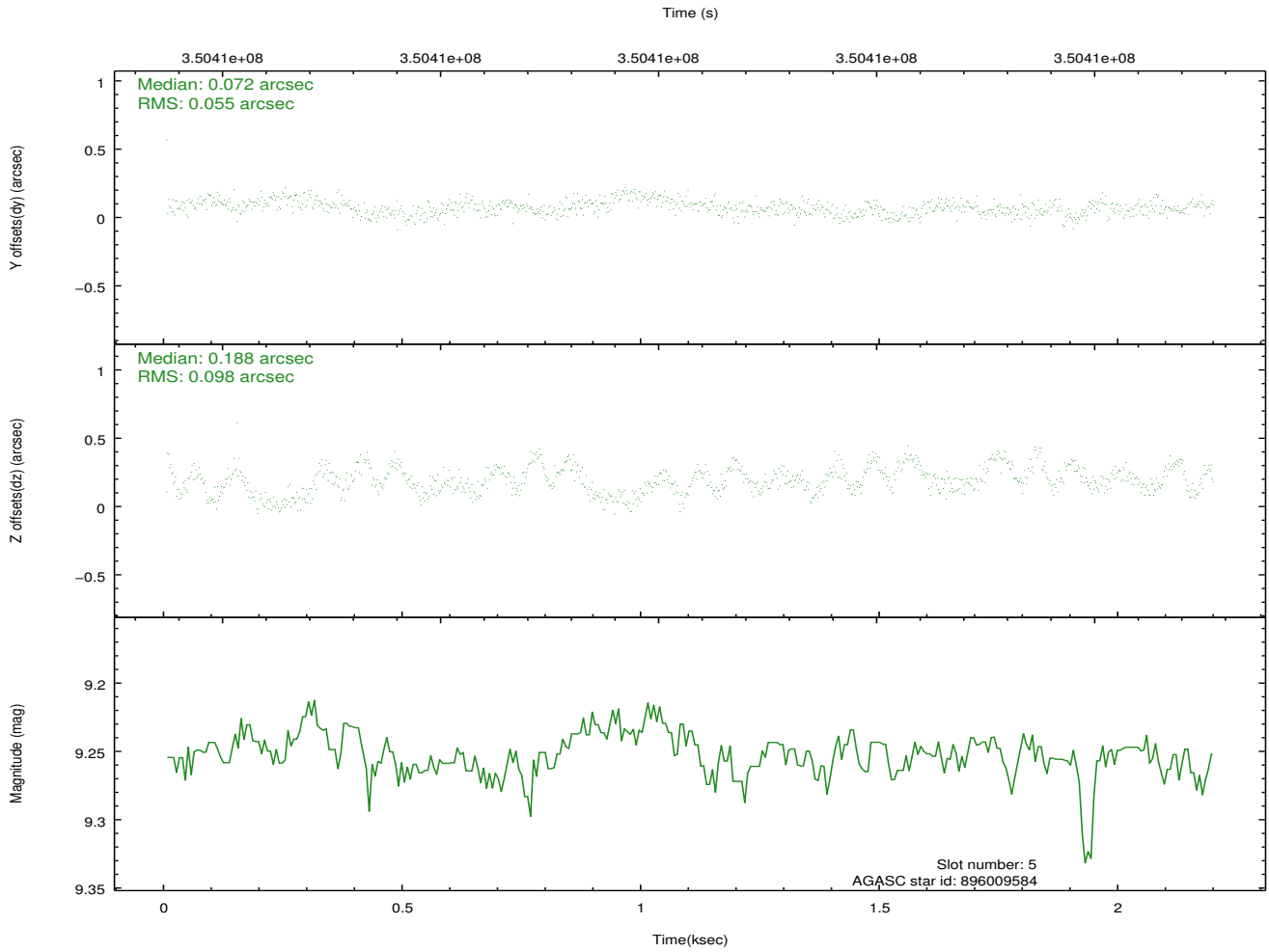
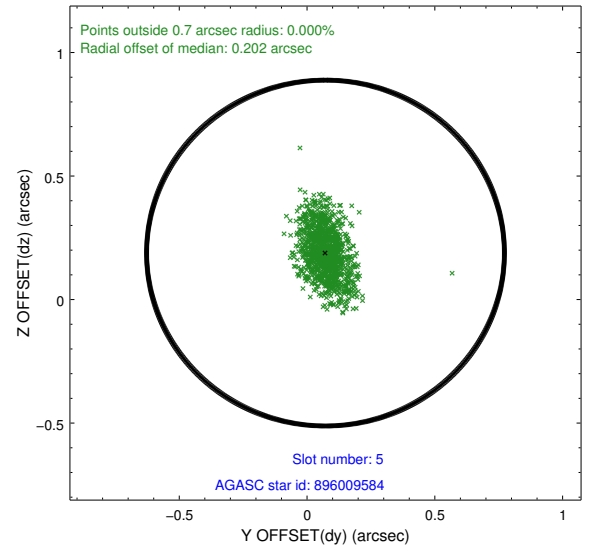
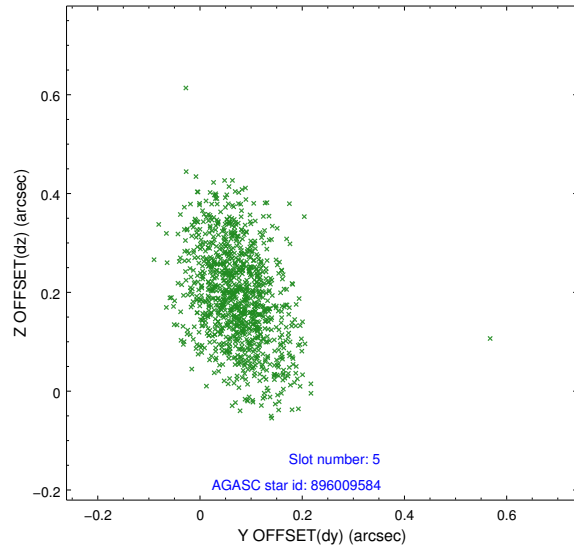
### 2.4.1 Slot 3



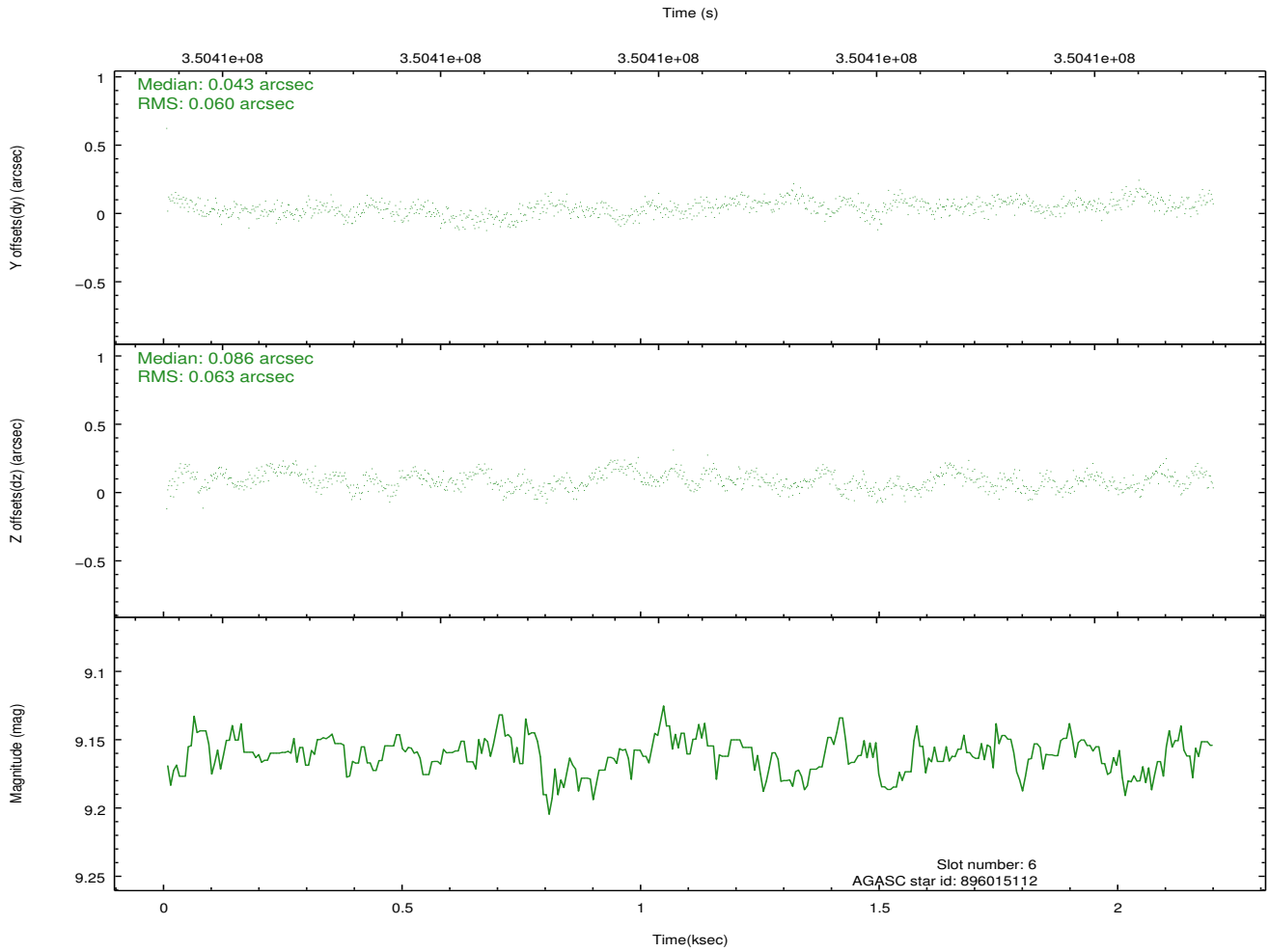
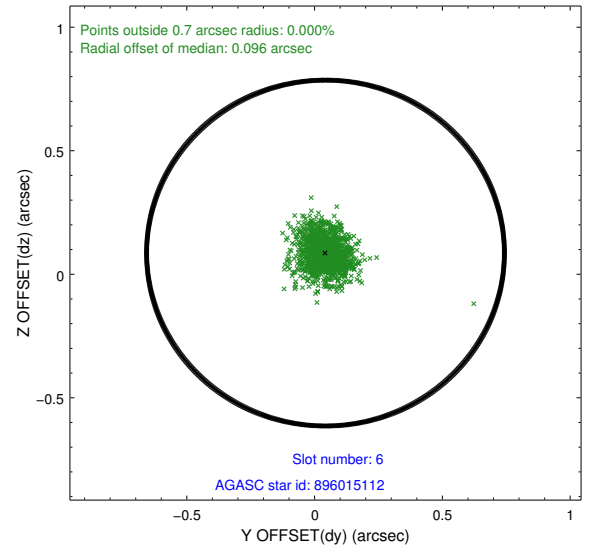
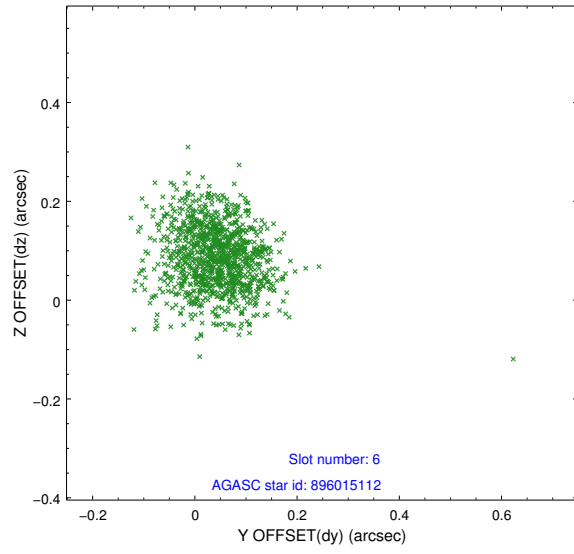
## 2.4.2 Slot 4



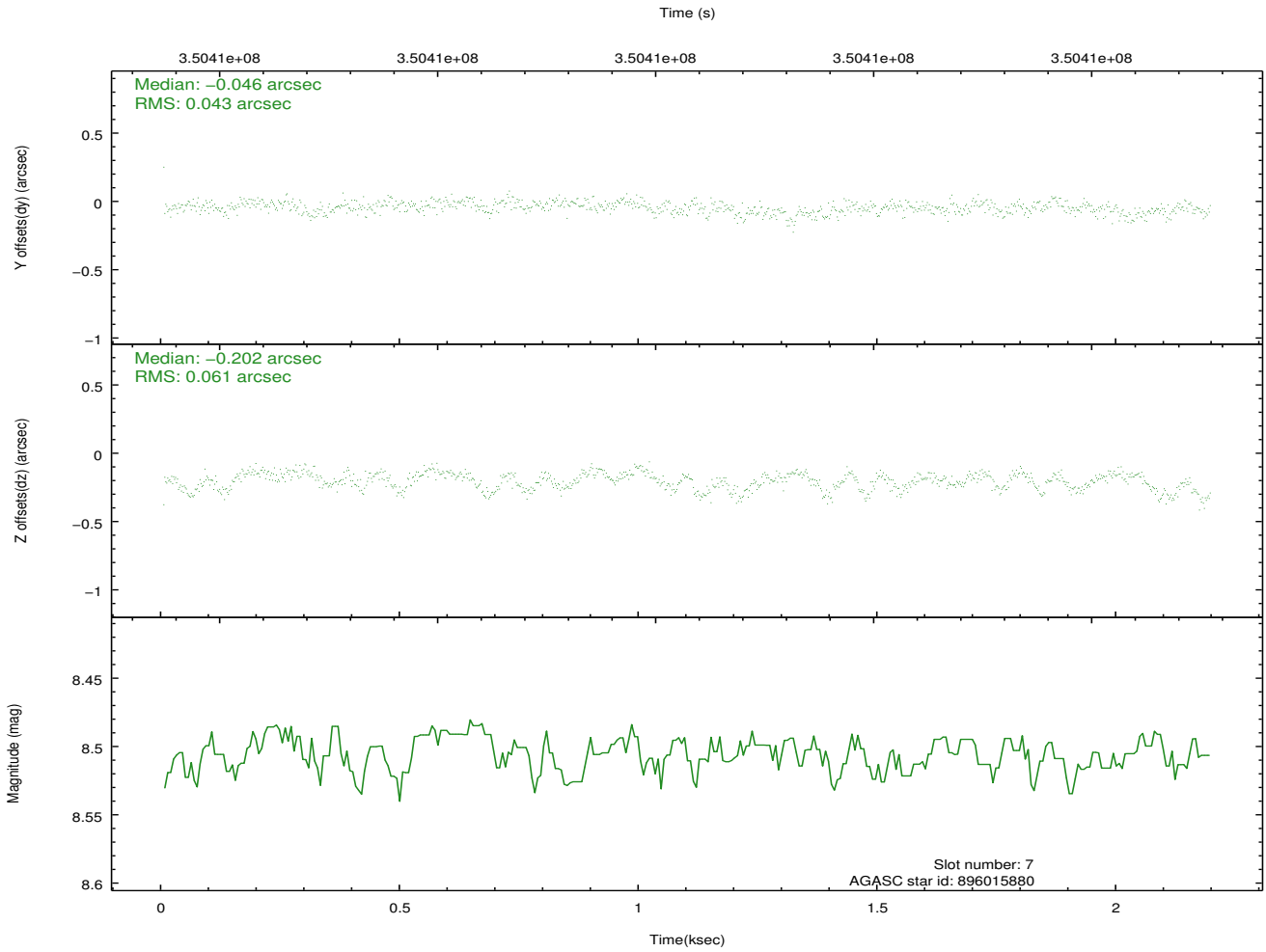
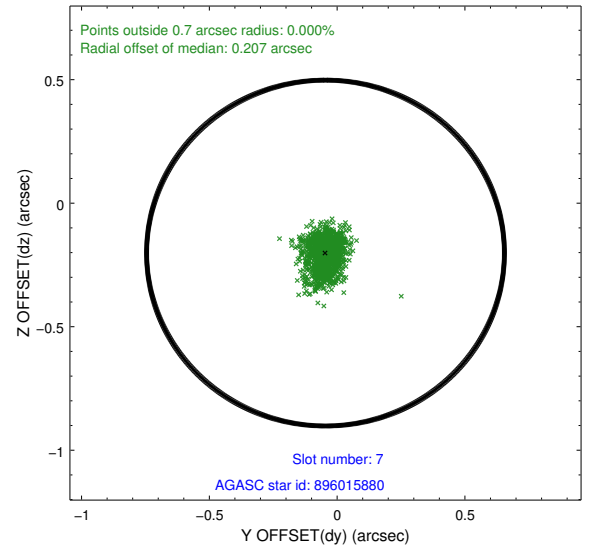
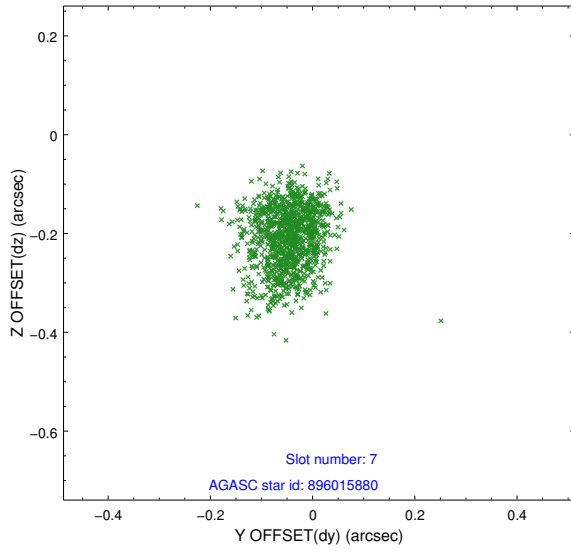
### 2.4.3 Slot 5



## 2.4.4 Slot 6

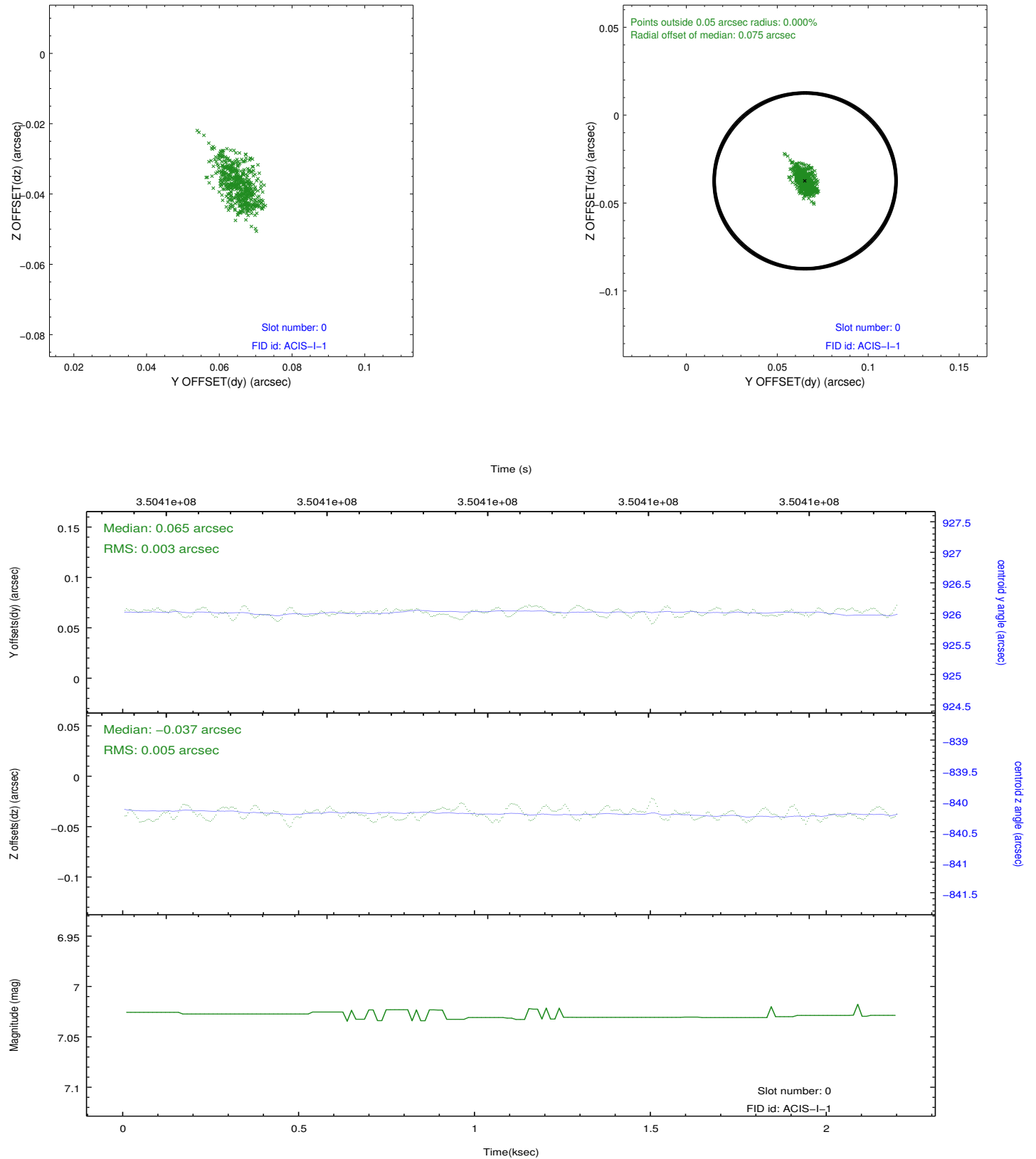


## 2.4.5 Slot 7

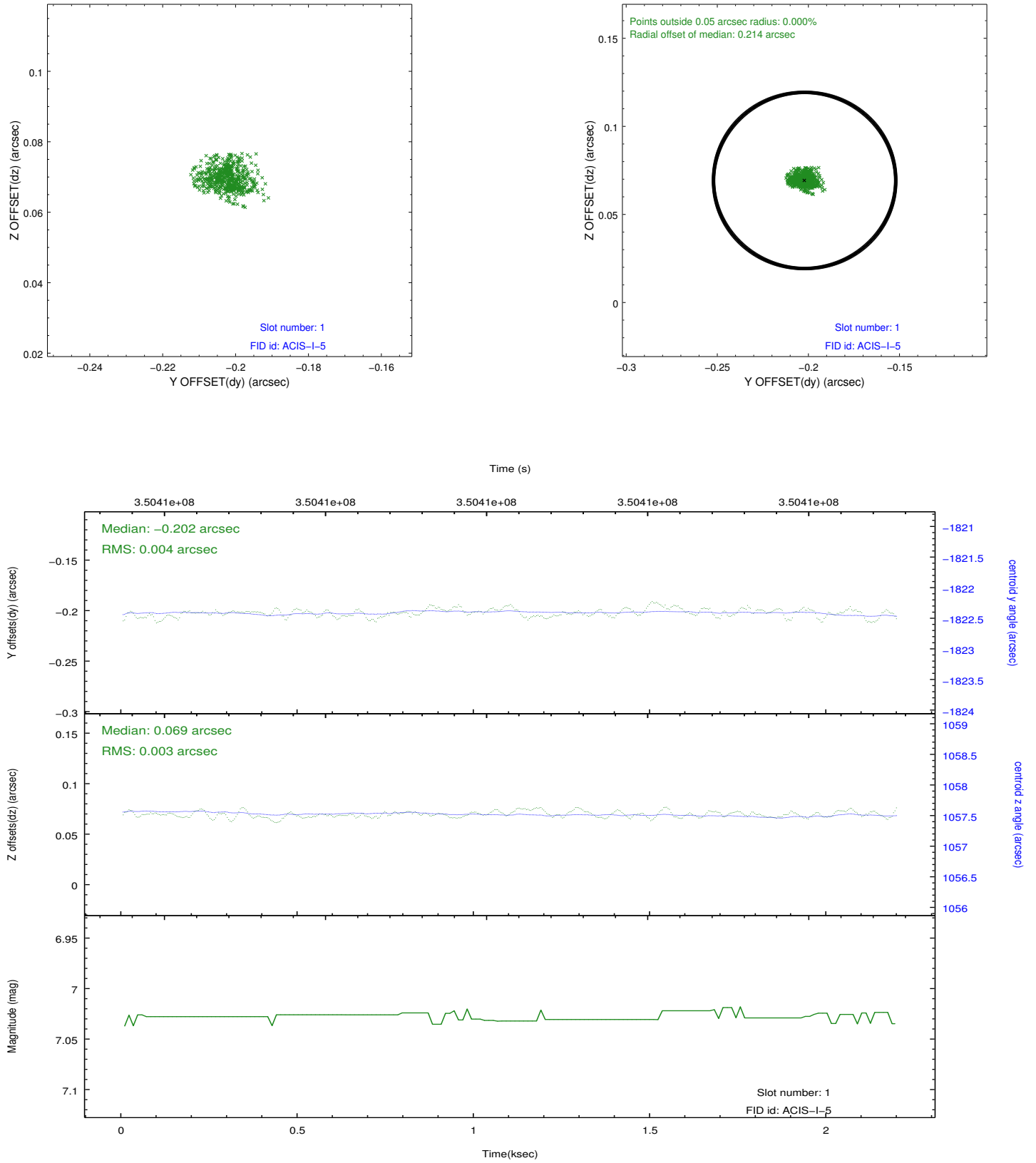


## 2.5 FID Slots

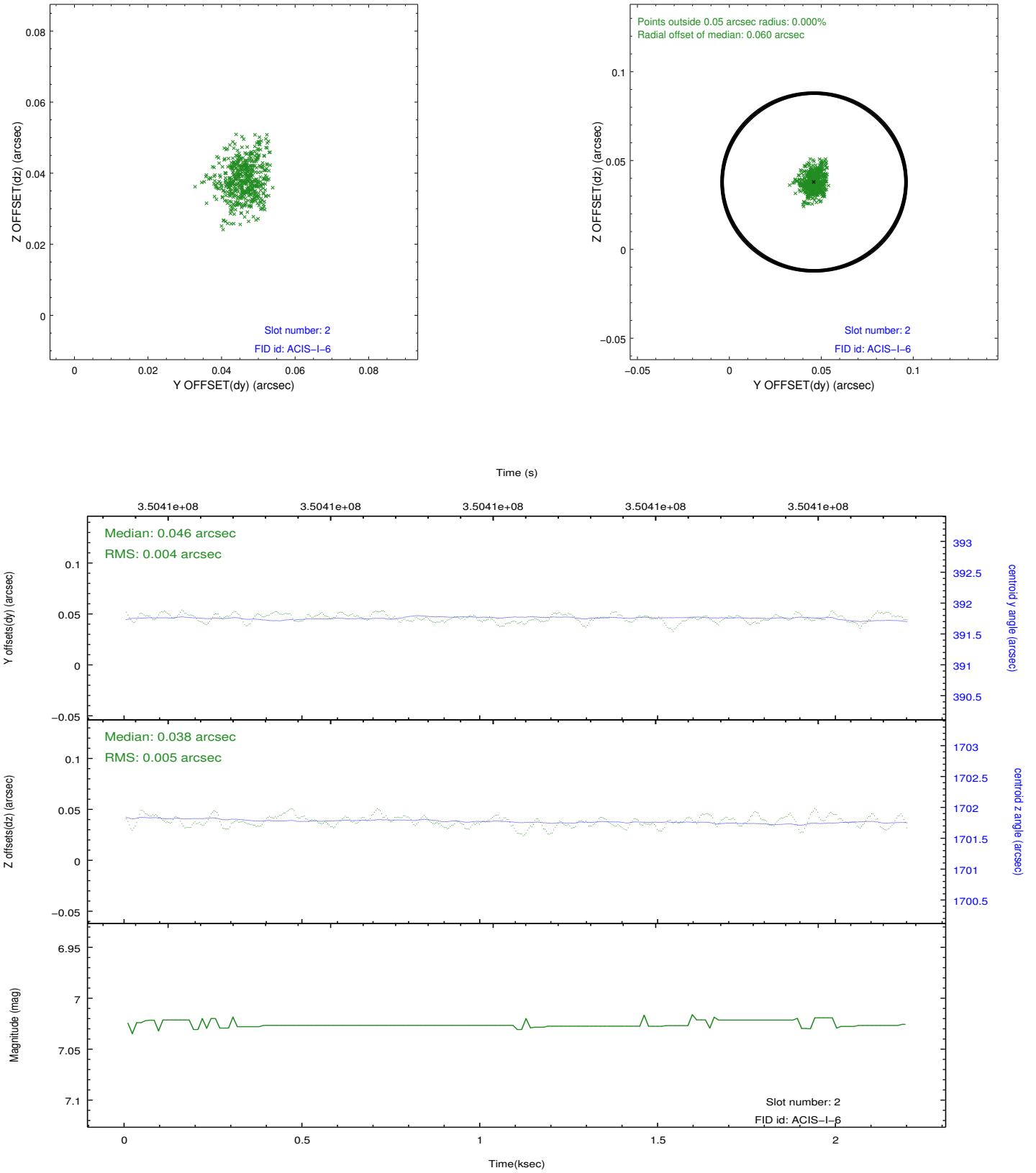
### 2.5.1 Slot 0



## 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)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.19170001

### A.2 Comments

Joint proposal with NOAO.