

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10010 - L2 Version 2  
Chandra X-Ray Center

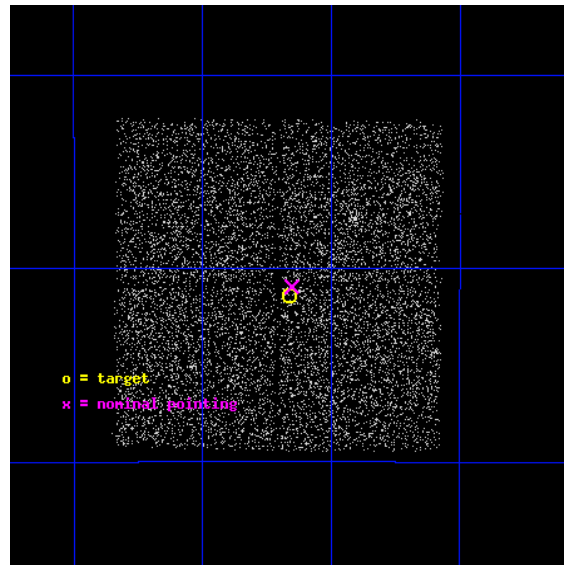
L2 Processing Date : Jun 1 2012

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# 1 Front

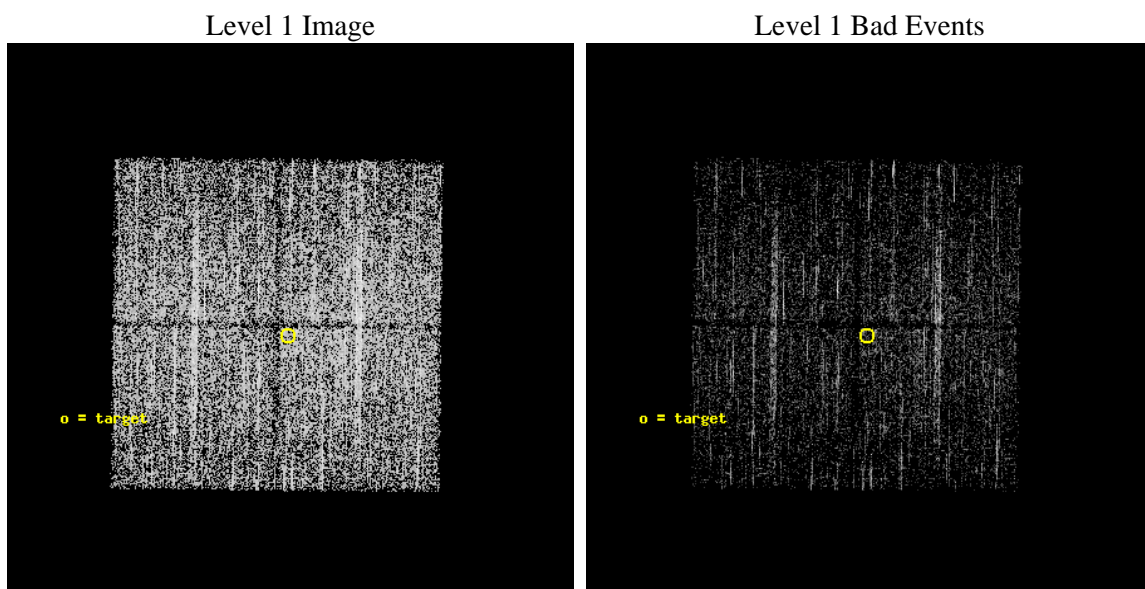
seq_num	400974	Sequence number
obs_id	10010	Observation id
title	Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS5-10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.791125	Observer's specified target RA [deg]
dec_targ	-26.190111	Observer's specified target Dec [deg]
ra_nom	265.78827392971	Nominal RA [deg]
dec_nom	-26.182606509295	Nominal Dec [deg]
roll_nom	90.616571429864	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2185.5000168085	Sum of GTIs [s]
livetime	2156.9448501472	Livetime [s]
ontime0	2185.5000168085	Sum of GTIs [s]
ontime1	2182.3590664864	Sum of GTIs [s]
ontime2	2185.5000168085	Sum of GTIs [s]
ontime3	2185.5000168085	Sum of GTIs [s]
l2events	10678	Number of level 2 events



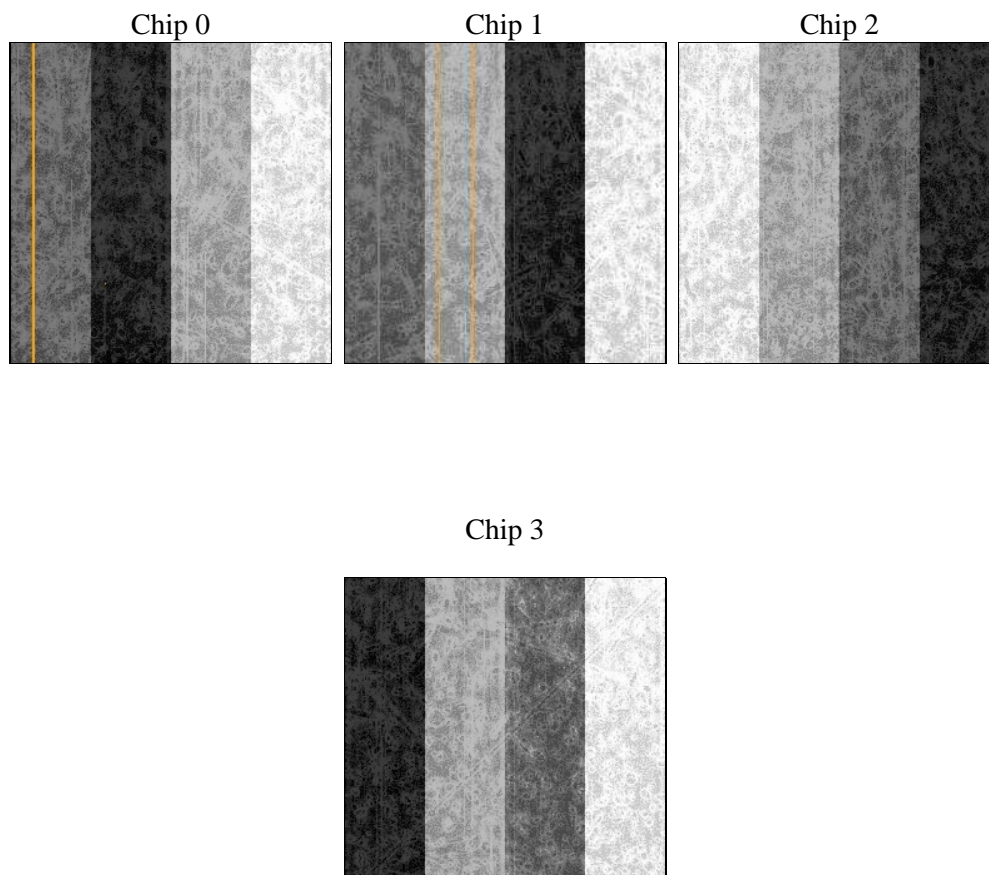
## 2 OBI

### 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	2185.5000168085	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2185.5000168085	Sum of GTIs [s]
date	2012-06-01T06:53:45	Date and time of file creation	ontime1	2182.3590664864	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2185.5000168085	Sum of GTIs [s]
			ontime3	2185.5000168085	Sum of GTIs [s]
			l1events	102014	Number of level 1 events

### 2.1.4 Events

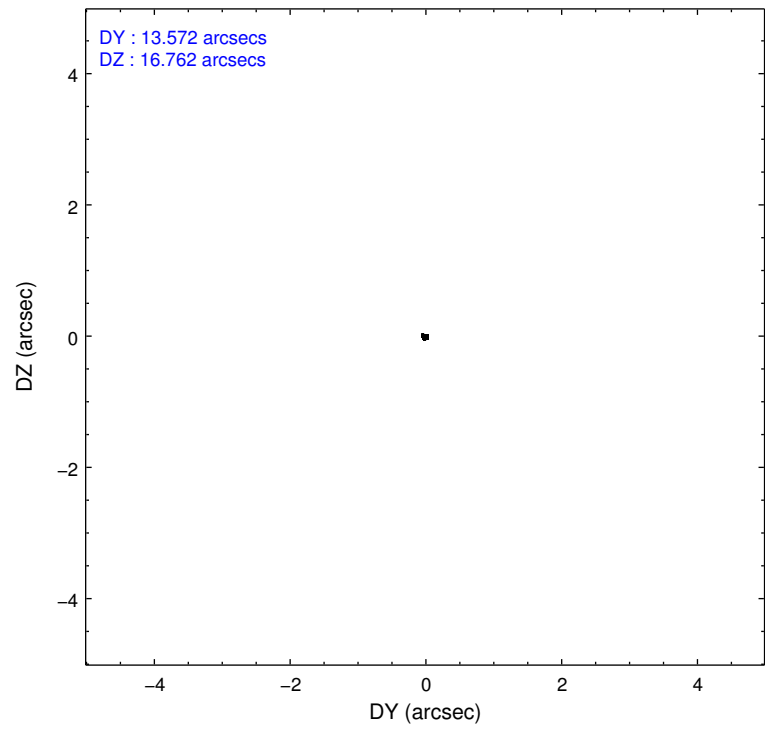
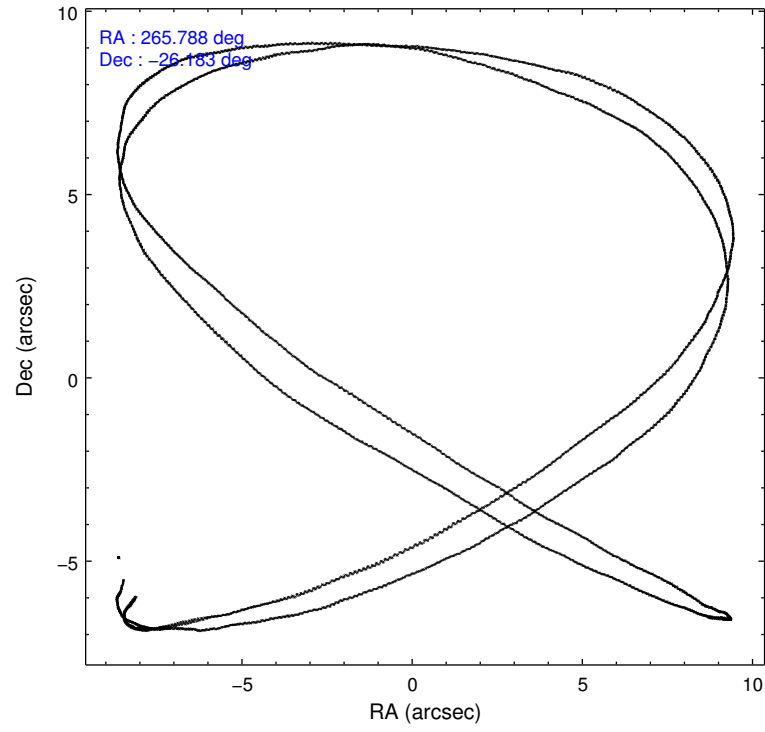
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	24767	24802	26352	26093
rejected events	21741	21675	23190	23061
rejected %	87%	87%	88%	88%

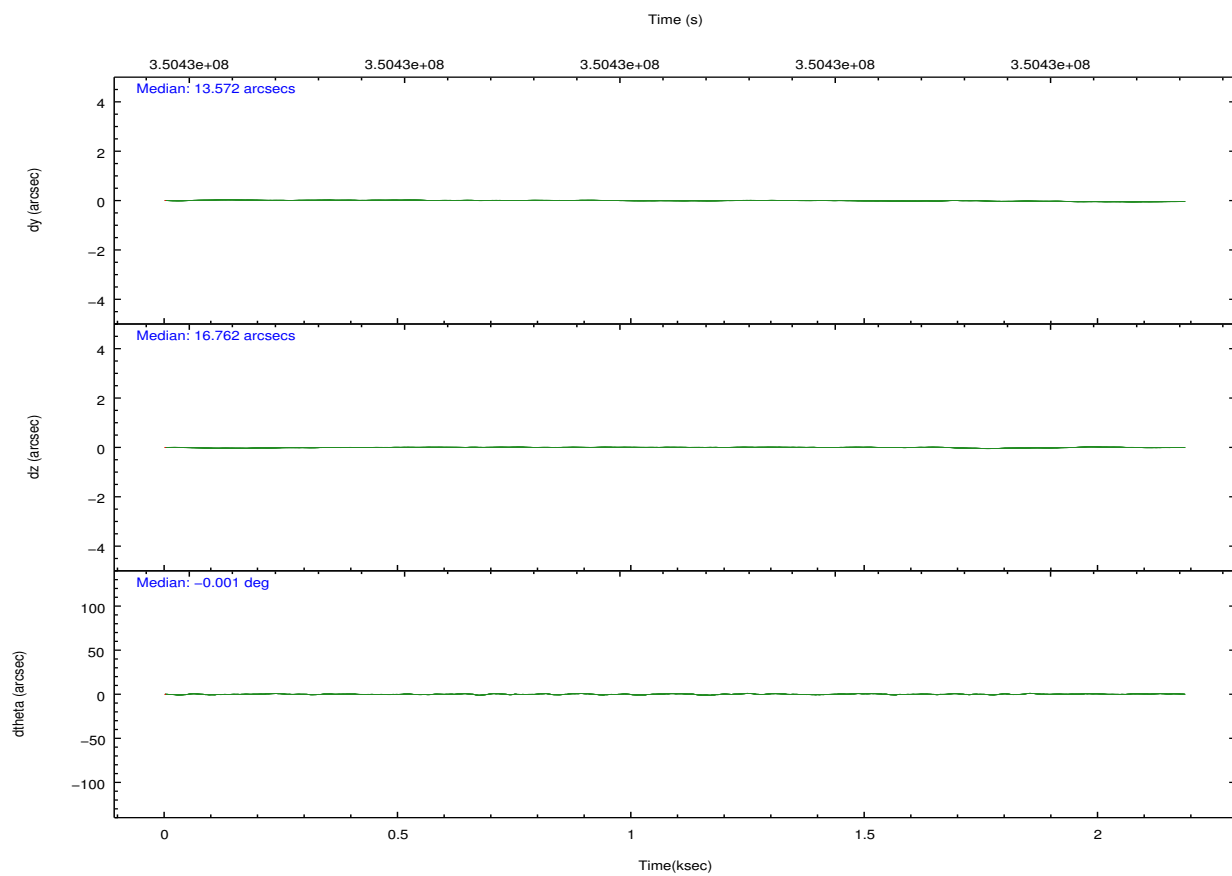
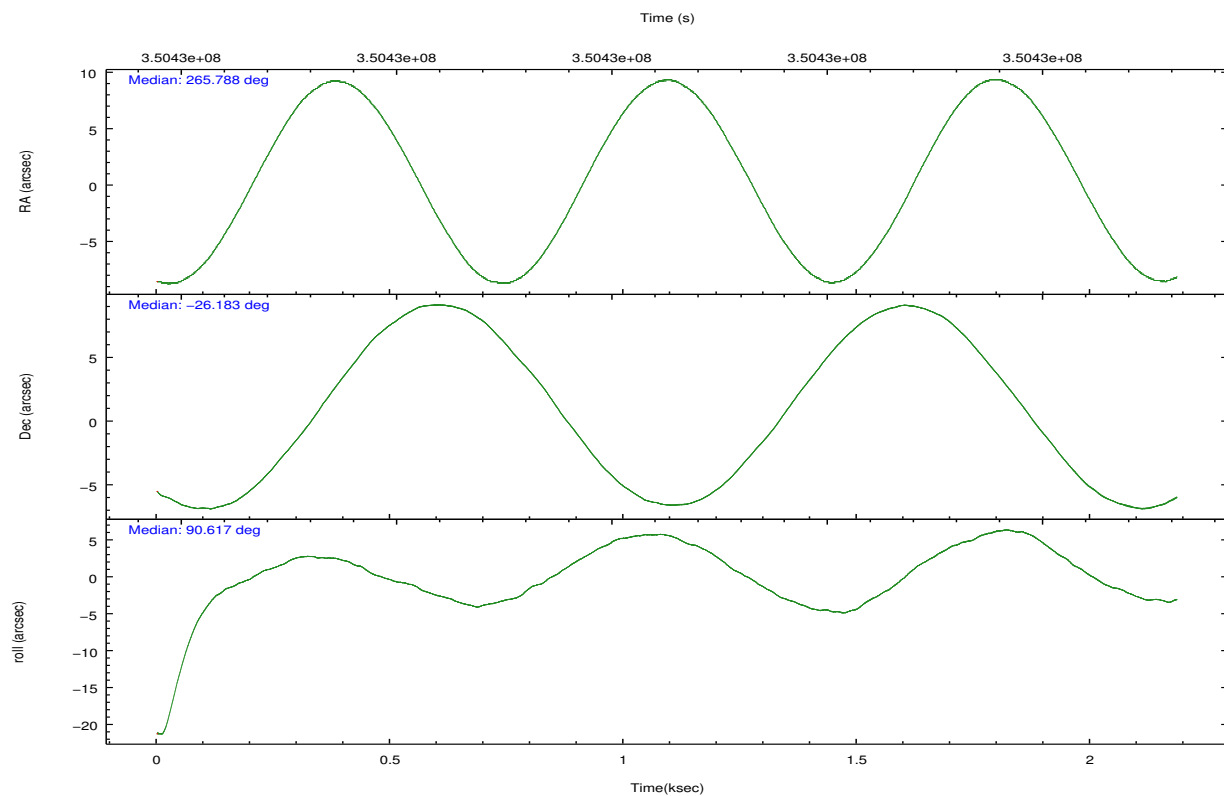
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1566	1395	1784	1529
	6%	5%	6%	5%
grade 1 events	15	20	28	20
	0%	0%	0%	0%
grade 2 events	716	853	688	679
	2%	3%	2%	2%
grade 3 events	304	320	354	334
	1%	1%	1%	1%
grade 4 events	270	328	282	336
	1%	1%	1%	1%
grade 5 events	1118	1112	1019	1247
	4%	4%	3%	4%
grade 6 events	603	670	520	575
	2%	2%	1%	2%
grade 7 events	20175	20104	21677	21373
	81%	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	265.804073	265.7882739297129	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.206031	-26.18260650929472	Alternating exposures requested	N	N
[deg] Pointing Roll	90.414951	90.61657142986434	[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)	350427228.184000	350426853.02215			
Observation start date	2009-02-07T20:52:42	2009-02-07T20:47:33			
[s] Observation end time (MET)	350429228.184000	350429362.73478			
Observation end date	2009-02-07T21:26:02	2009-02-07T21:29:22			
Read mode	TIMED	TIMED			

## 2.3 Aspect





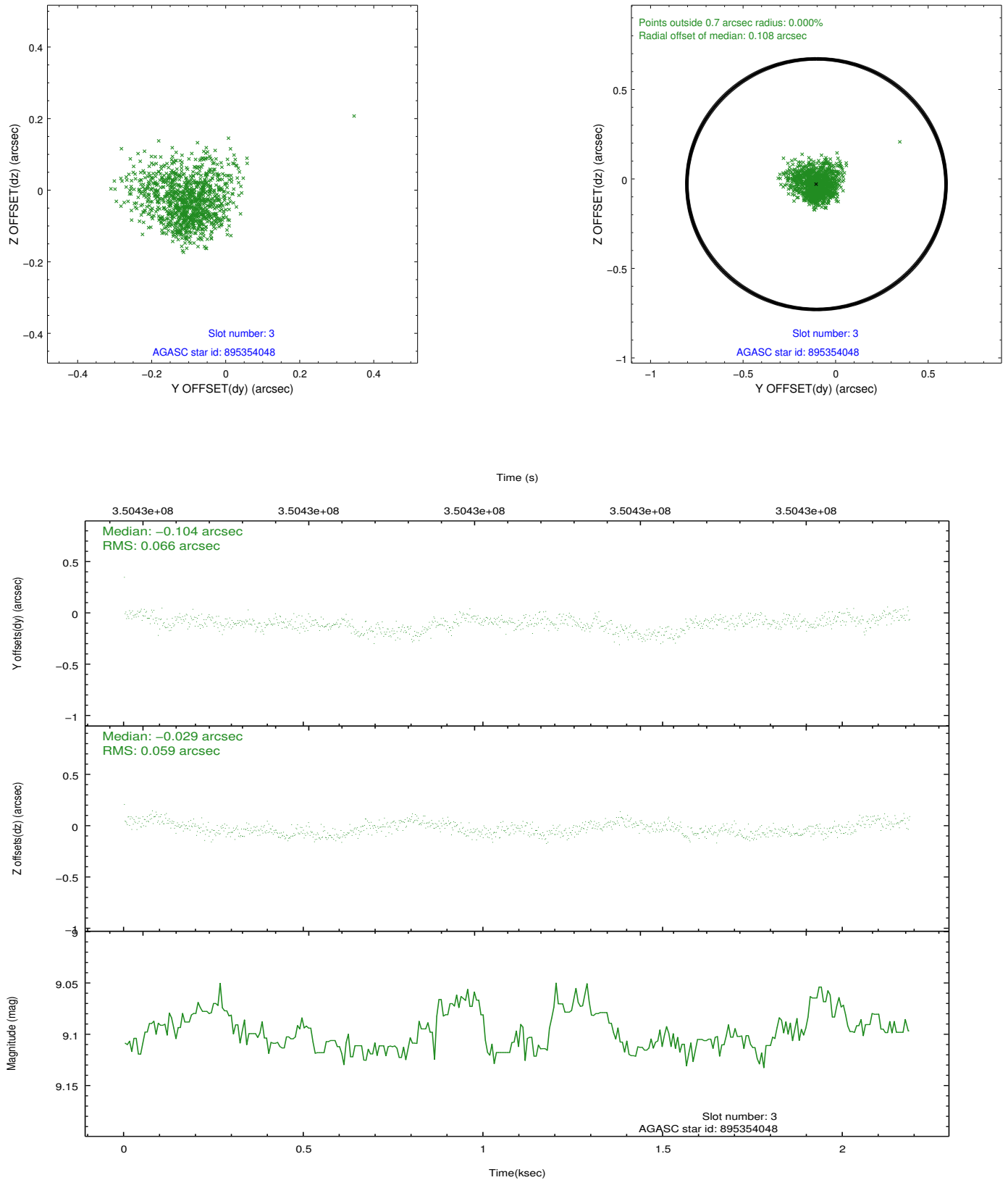
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	534	0.056	-0.018	0.006	0.011	0.000000	0.000000	925.97	-840.44
1	FID	ACIS-I-5	7.02	534	-0.187	0.069	0.006	0.010	0.000000	0.000000	-1820.70	1055.69
2	FID	ACIS-I-6	7.01	533	0.039	0.020	0.006	0.010	0.000000	0.000000	388.30	1703.48
3	GUIDE	895354048	9.10	1066	-0.104	-0.029	0.093	0.150	265.145749	-25.624396	2104.55	2121.41
4	GUIDE	895354448	9.02	1061	-0.263	-0.061	0.070	0.113	265.769015	-25.624207	2097.84	100.41
5	GUIDE	896015344	9.09	1066	0.229	0.134	0.087	0.134	265.913290	-26.611586	-1459.65	-340.85
6	GUIDE	896015880	8.51	1067	-0.088	0.088	0.065	0.107	265.986633	-26.306686	-367.69	-586.88
7	GUIDE	895882464	8.79	1064	0.217	-0.142	0.085	0.131	265.568948	-26.820420	-2206.30	770.65

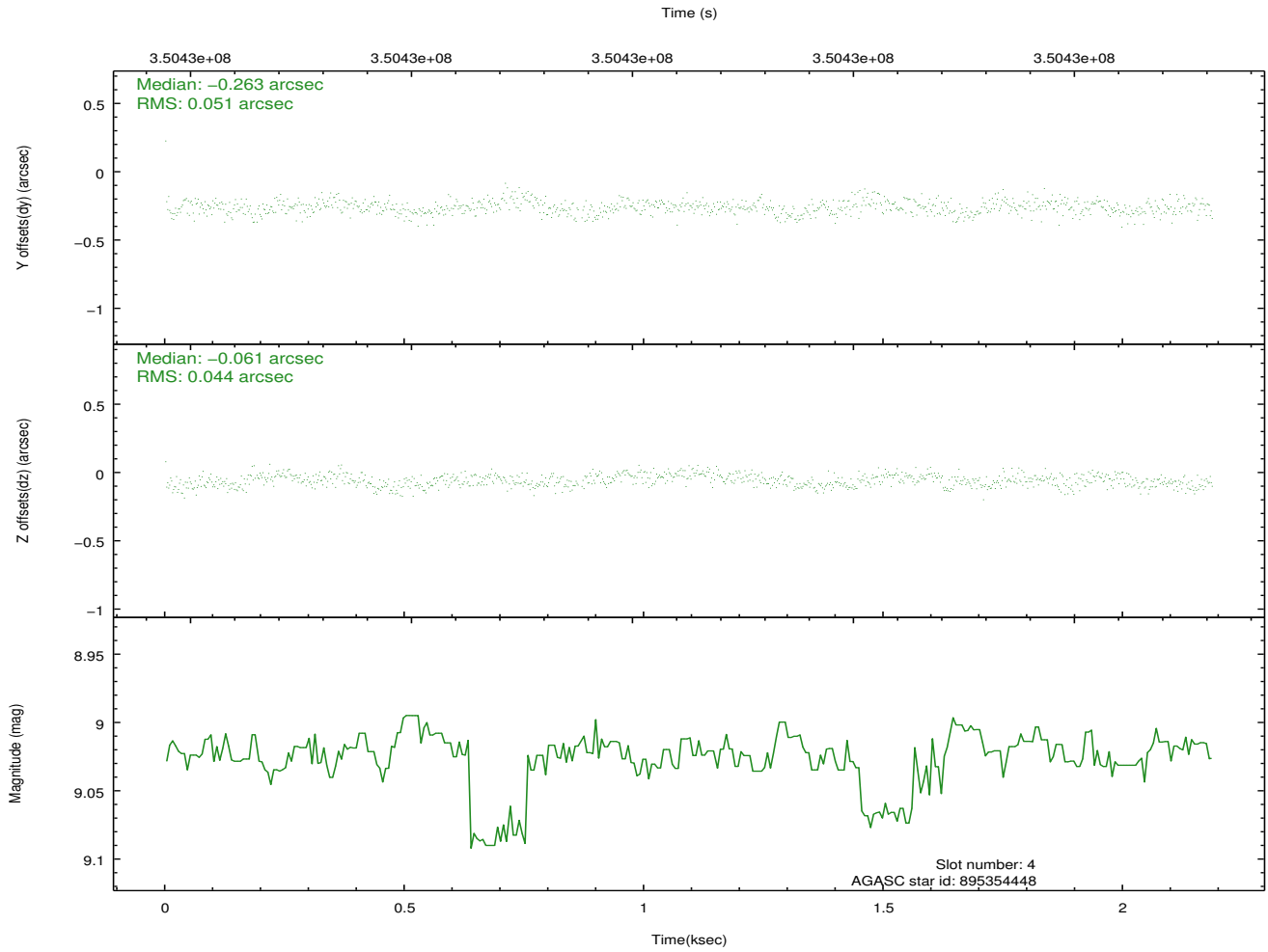
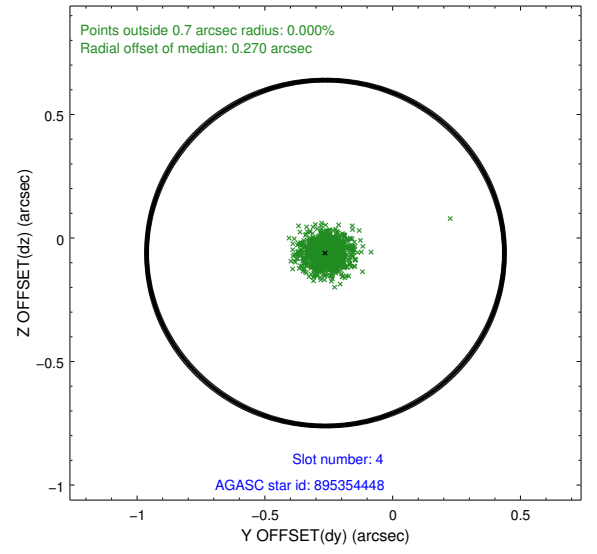
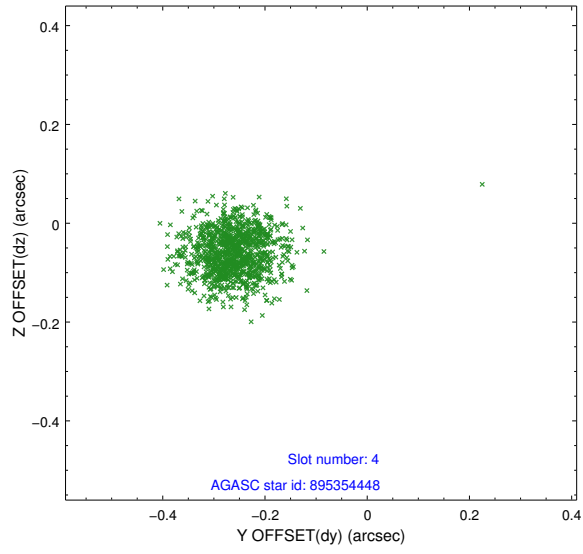


## 2.4 Star Slots

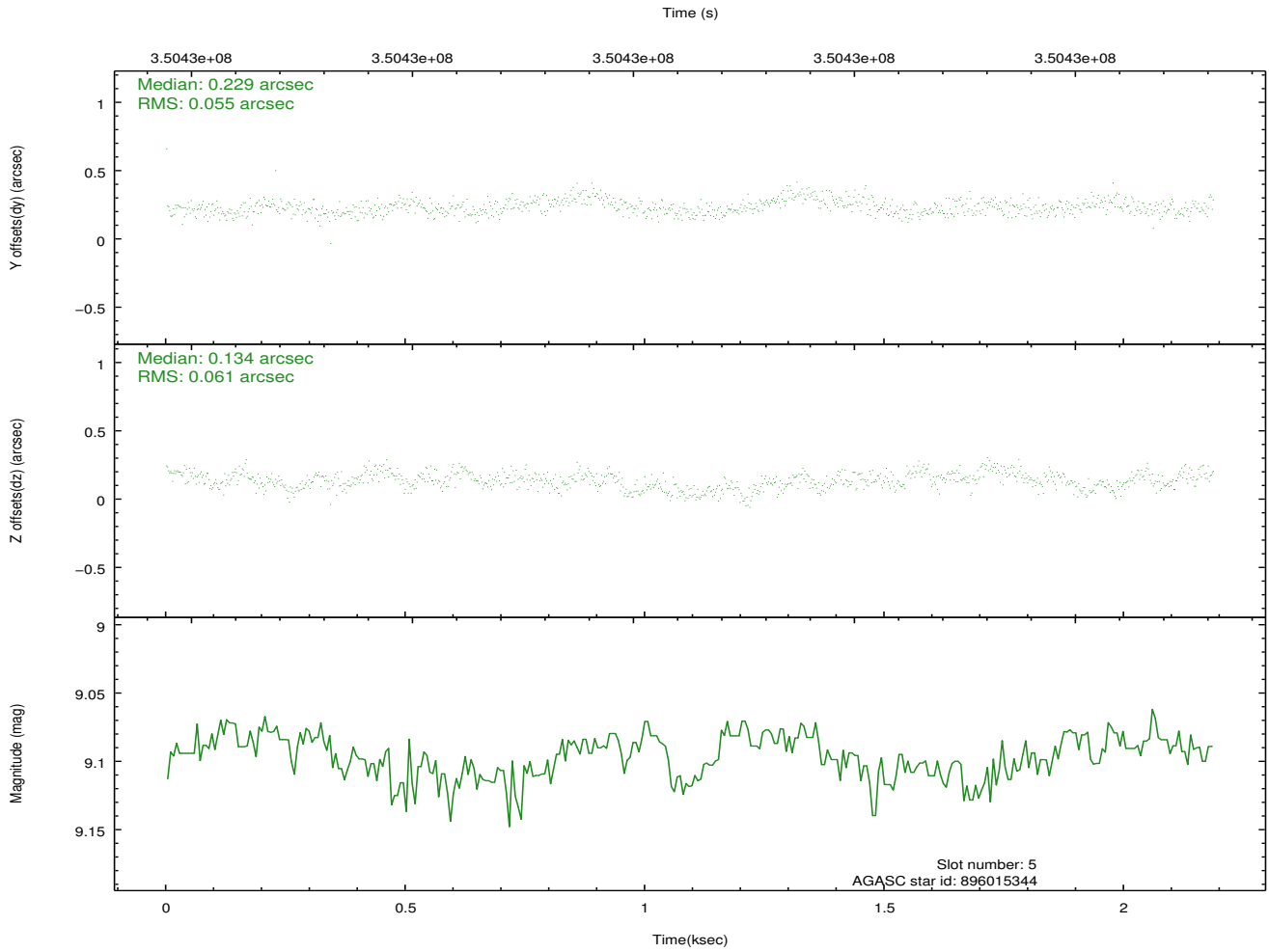
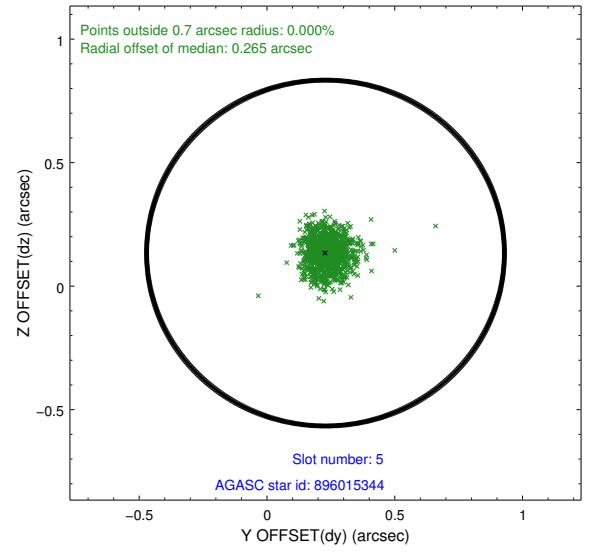
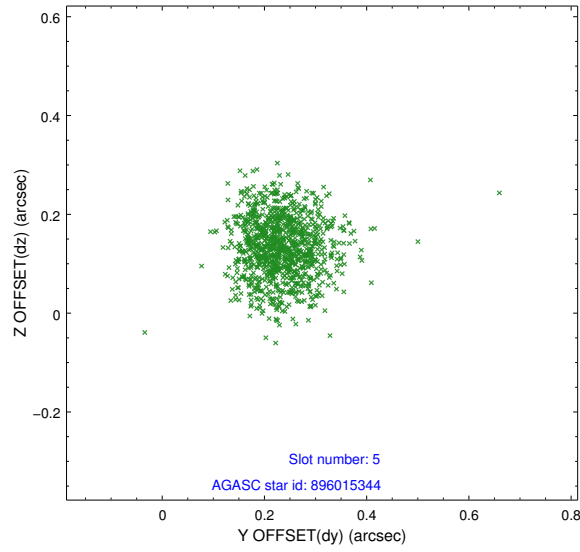
### 2.4.1 Slot 3



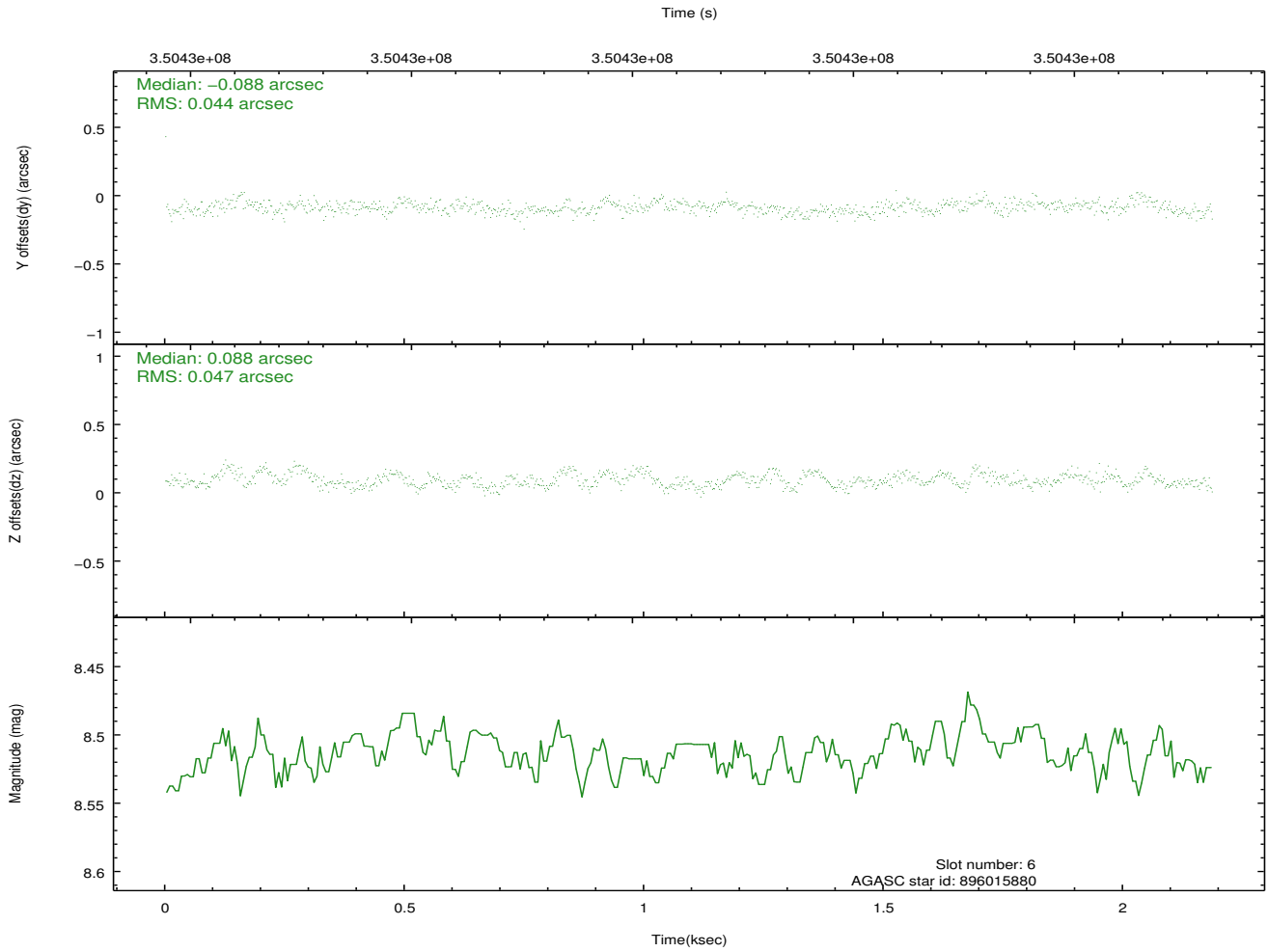
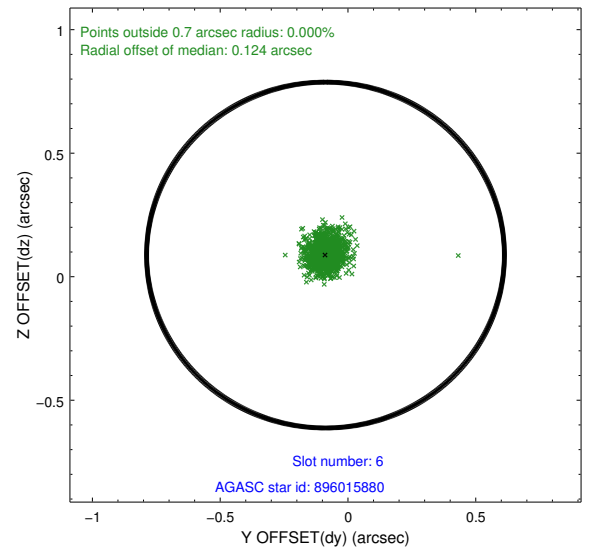
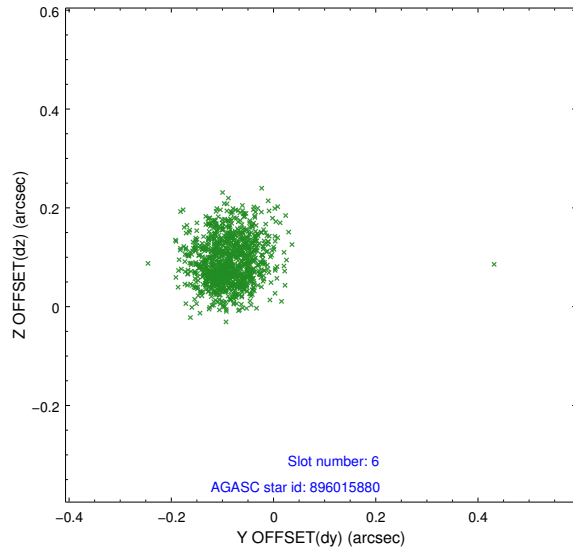
## 2.4.2 Slot 4



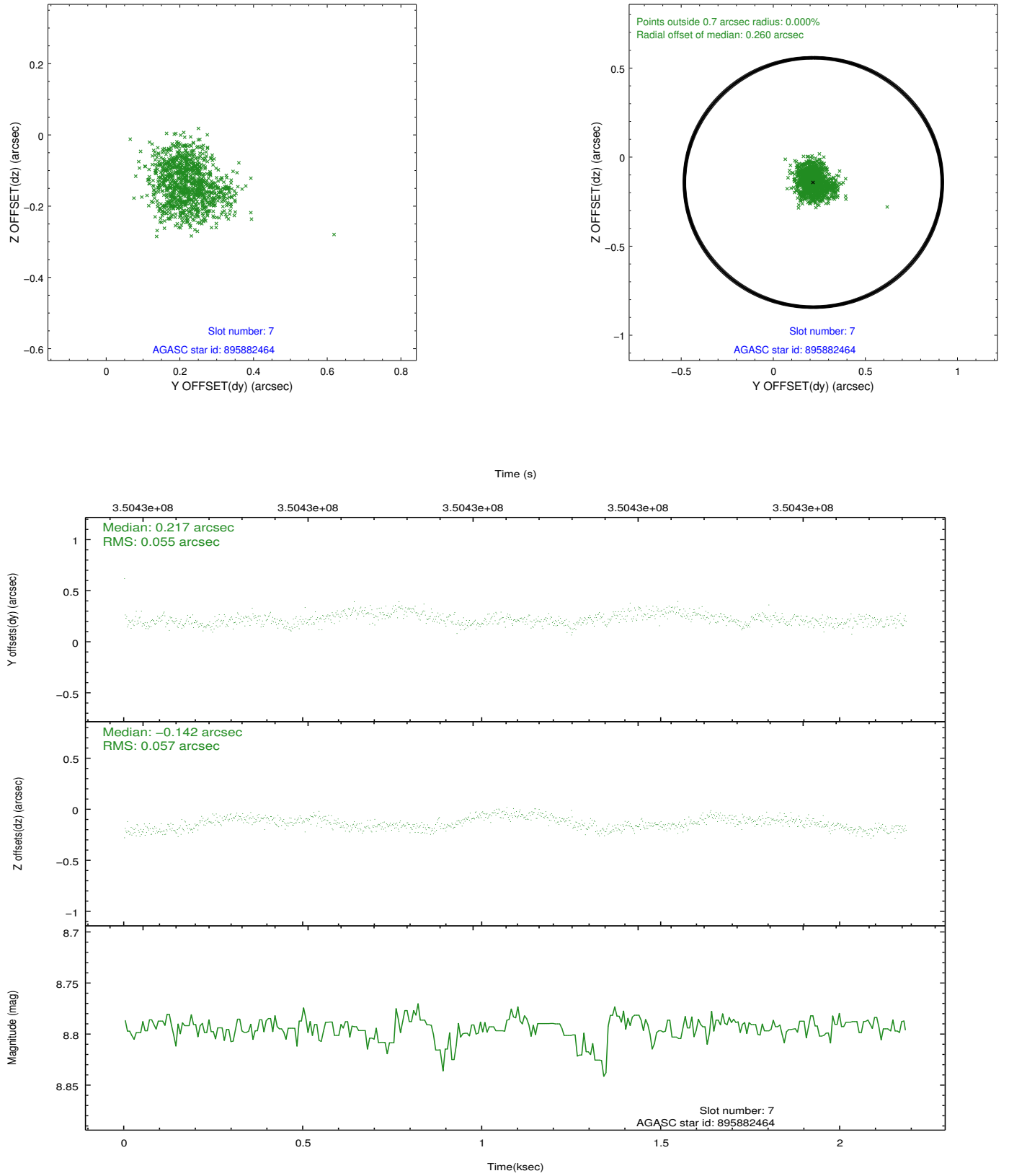
### 2.4.3 Slot 5



## 2.4.4 Slot 6

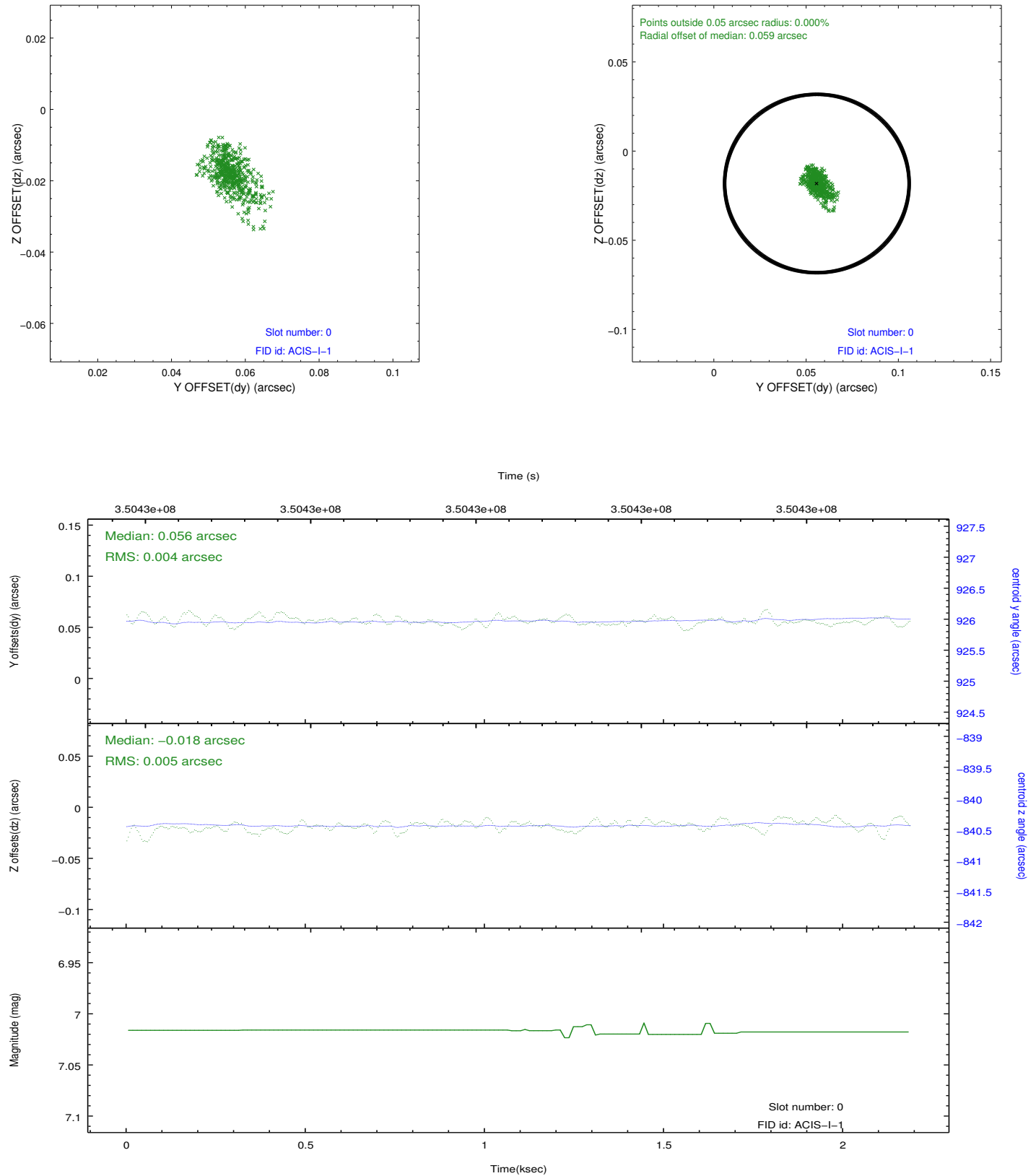


## 2.4.5 Slot 7

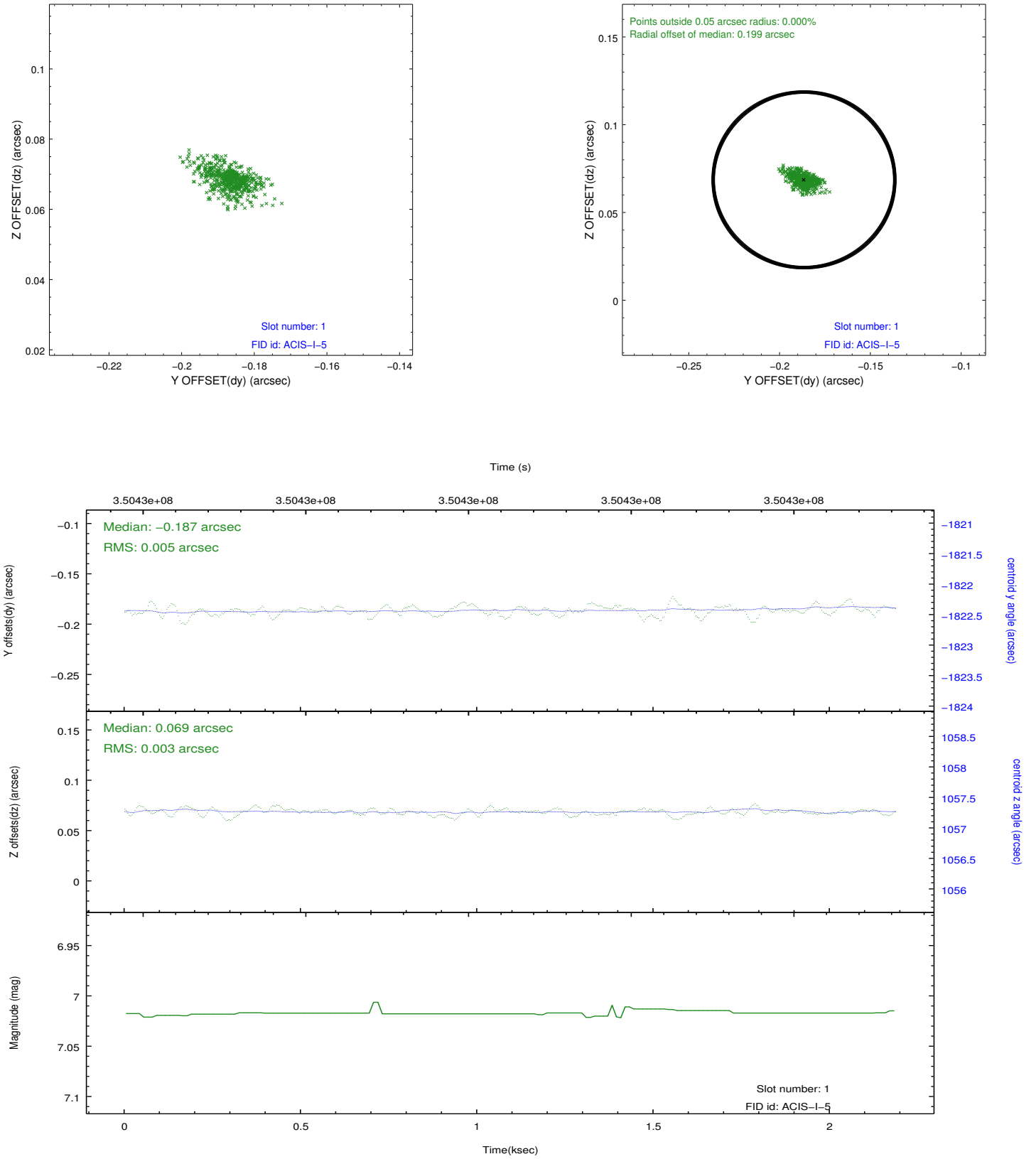


## 2.5 FID Slots

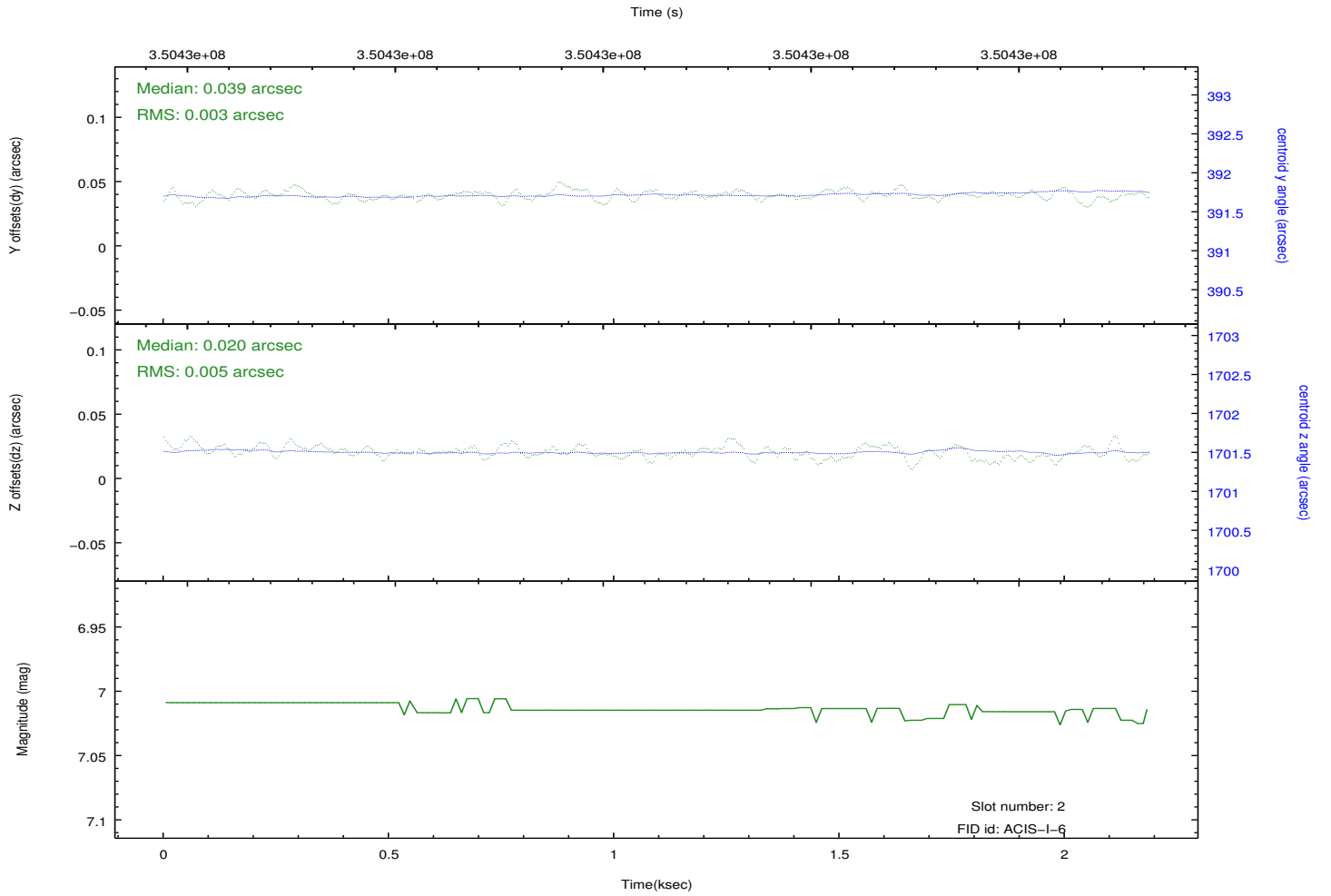
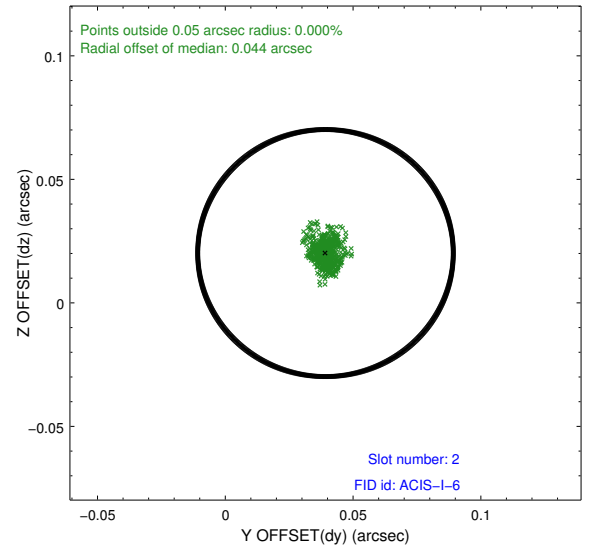
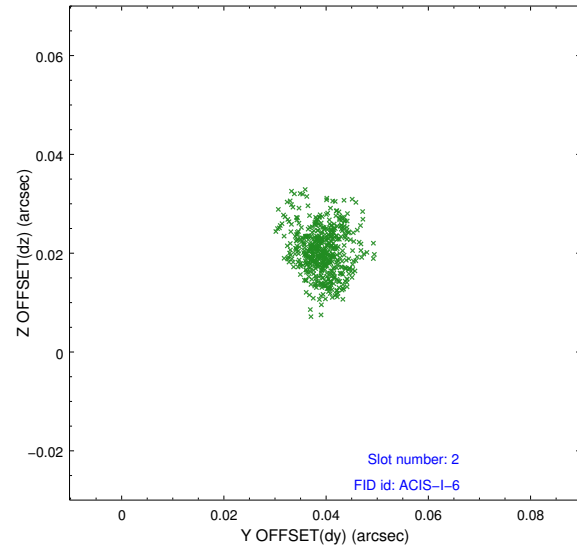
### 2.5.1 Slot 0



## 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	2.18550001

## A.2 Comments

Joint proposal with NOAO.