

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10022 - L2 Version 2  
Chandra X-Ray Center

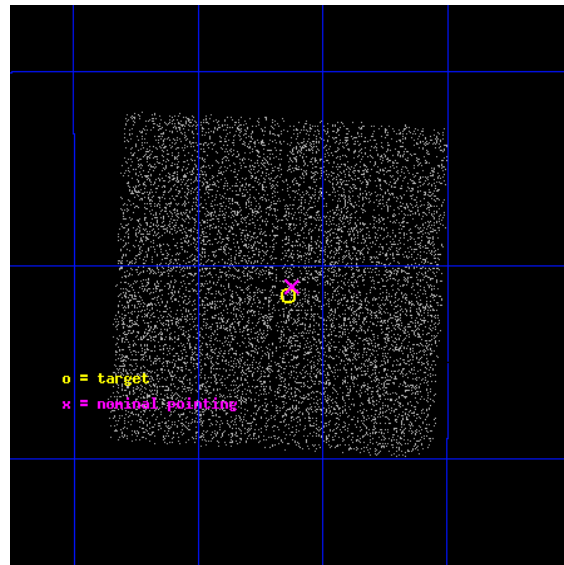
L2 Processing Date : Jun 1 2012

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# 1 Front

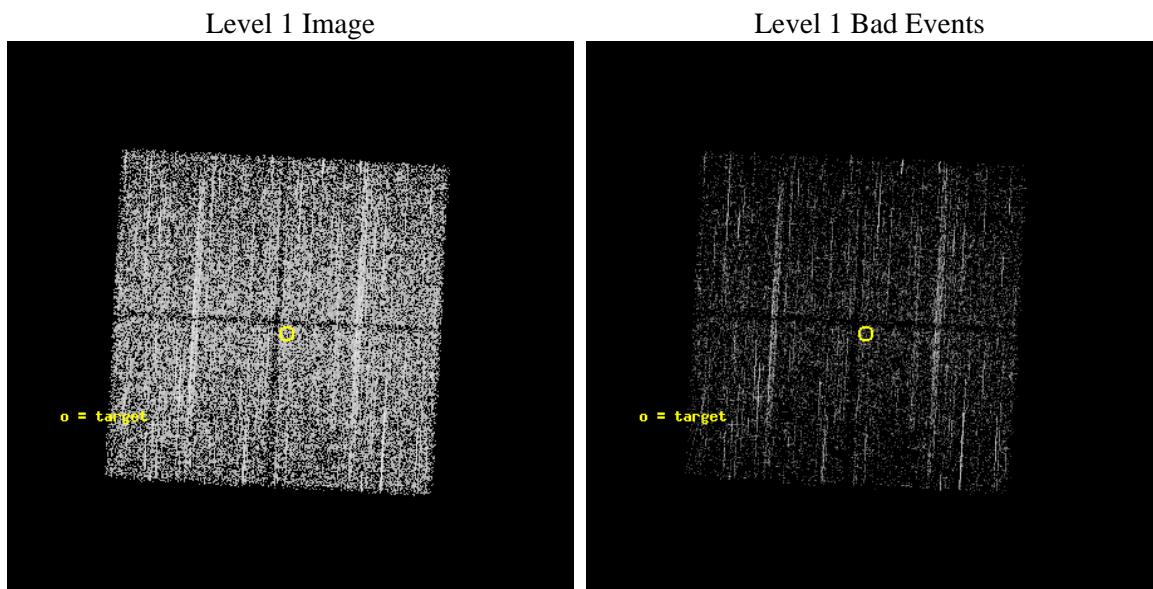
seq_num	400986	Sequence number
obs_id	10022	Observation id
title	Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS9-10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.284542	Observer's specified target RA [deg]
dec_targ	-29.692944	Observer's specified target Dec [deg]
ra_nom	263.28136078937	Nominal RA [deg]
dec_nom	-29.685194604247	Nominal Dec [deg]
roll_nom	93.030527504936	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2188.6000168324	Sum of GTIs [s]
livetime	2160.0043463885	Livetime [s]
ontime0	2188.6000168324	Sum of GTIs [s]
ontime1	2188.6000168324	Sum of GTIs [s]
ontime2	2188.6000168324	Sum of GTIs [s]
ontime3	2188.6000168324	Sum of GTIs [s]
l2events	10495	Number of level 2 events



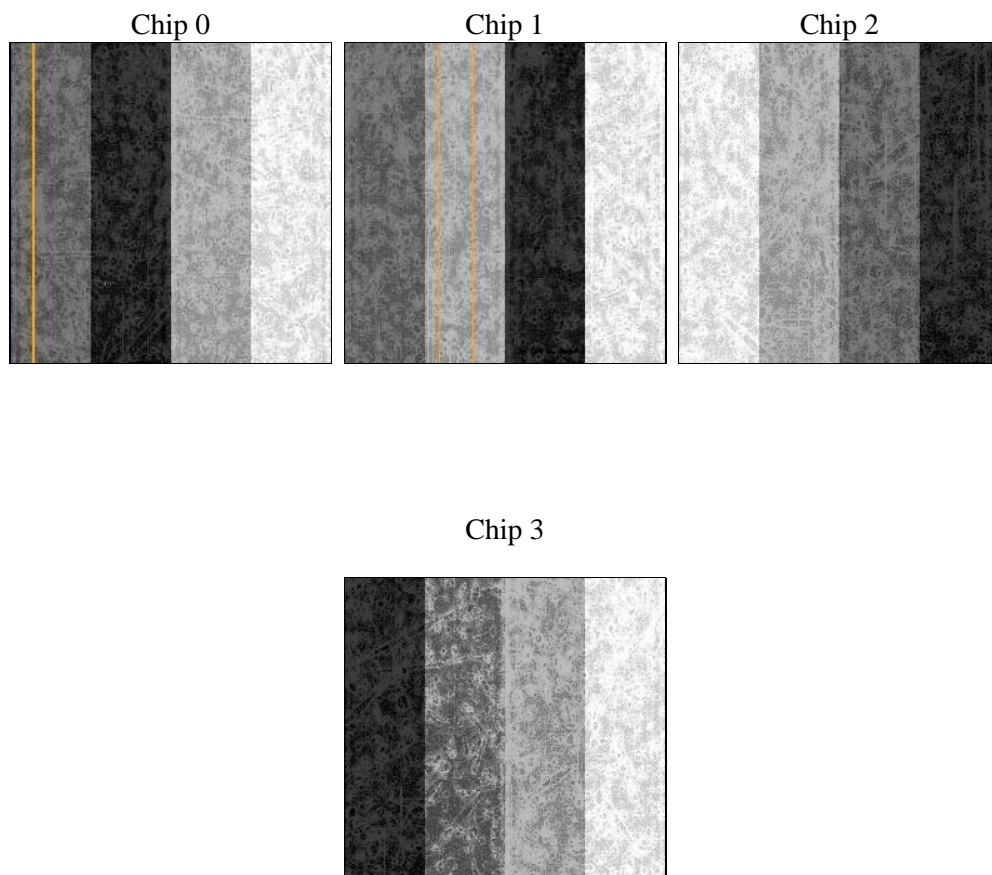
## 2 OBI

### 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	2188.6000168324	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2188.6000168324	Sum of GTIs [s]
date	2012-06-01T05:46:22	Date and time of file creation	ontime1	2188.6000168324	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2188.6000168324	Sum of GTIs [s]
			ontime3	2188.6000168324	Sum of GTIs [s]
			l1events	100816	Number of level 1 events

### 2.1.4 Events

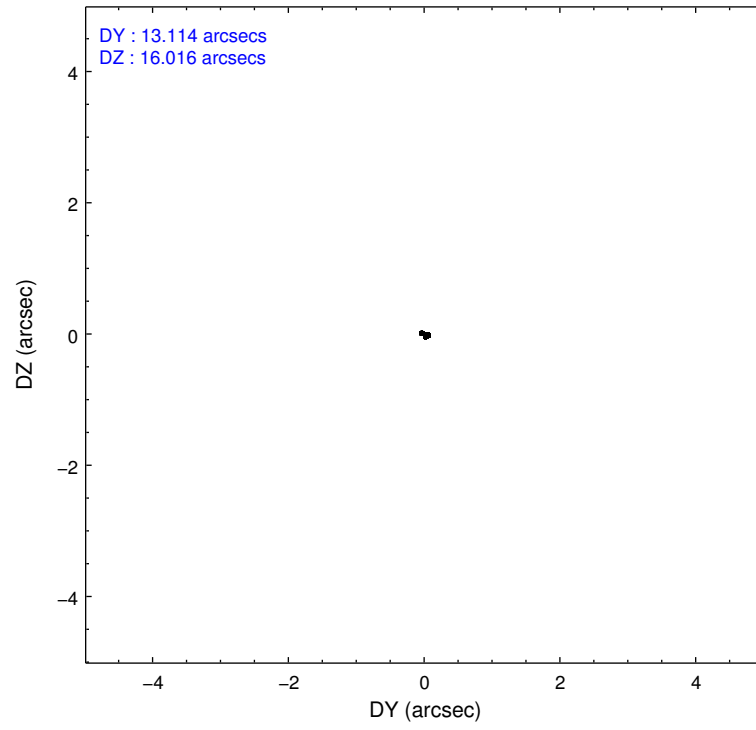
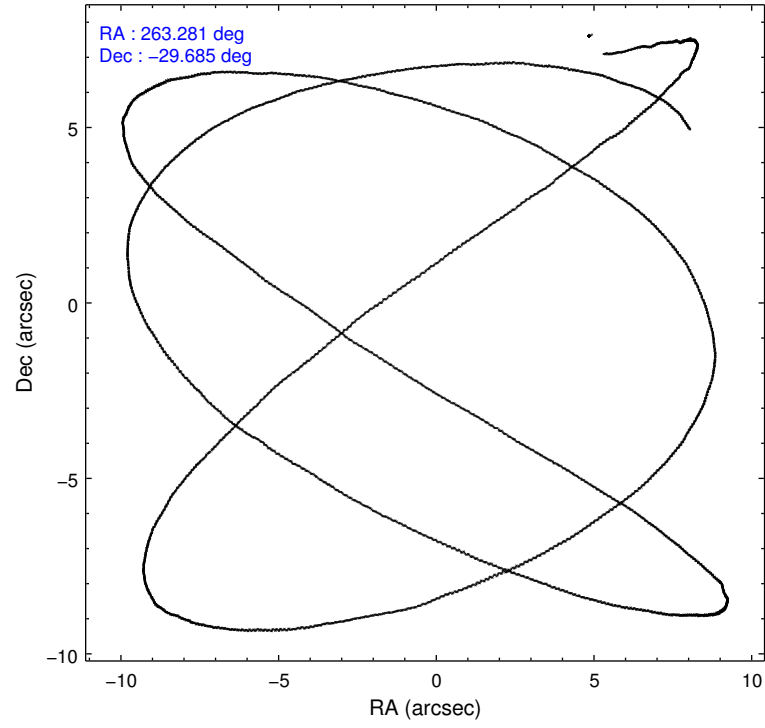
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	23867	25555	26006	25388
rejected events	20854	22410	22944	22496
rejected %	87%	87%	88%	88%

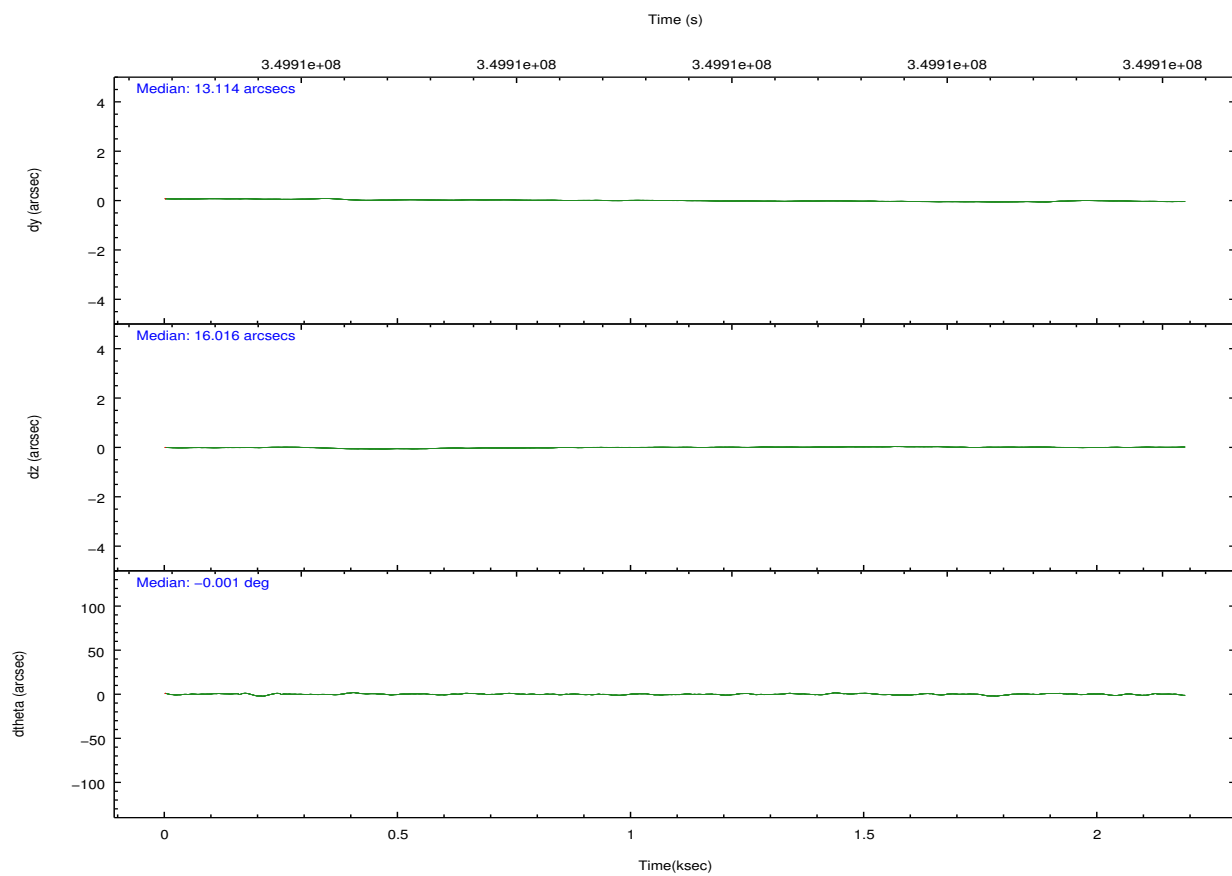
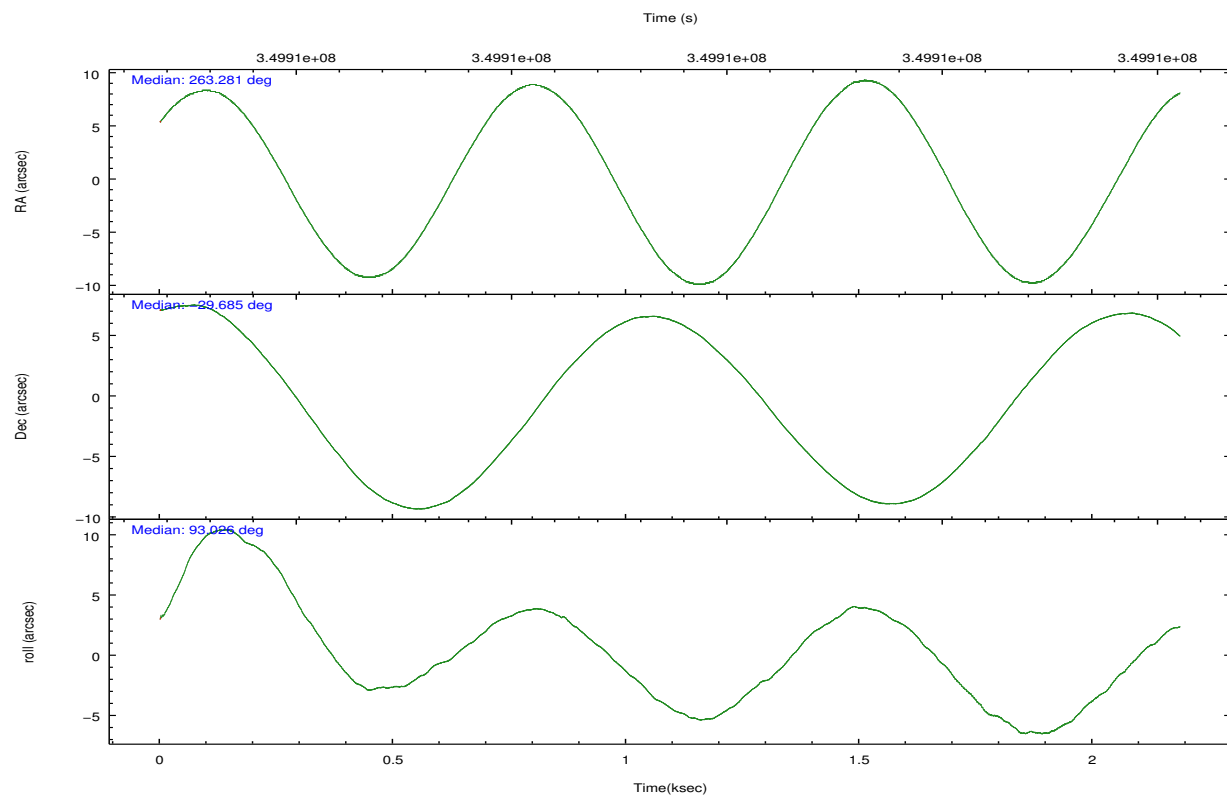
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1528	1430	1622	1541
	6%	5%	6%	6%
grade 1 events	17	22	18	13
	0%	0%	0%	0%
grade 2 events	738	877	735	637
	3%	3%	2%	2%
grade 3 events	319	338	301	297
	1%	1%	1%	1%
grade 4 events	287	291	308	276
	1%	1%	1%	1%
grade 5 events	1104	1134	1075	1203
	4%	4%	4%	4%
grade 6 events	573	682	563	533
	2%	2%	2%	2%
grade 7 events	19301	20781	21384	20888
	80%	81%	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	263.298676	263.2813607893673	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.708358	-29.68519460424651	Alternating exposures requested	N	N
[deg] Pointing Roll	92.830440	93.03052750493632	[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)	349909470.184000	349909094.23397			
Observation start date	2009-02-01T21:03:24	2009-02-01T20:58:14			
[s] Observation end time (MET)	349911470.184000	349911604.45909			
Observation end date	2009-02-01T21:36:44	2009-02-01T21:40:04			
Read mode	TIMED	TIMED			

## 2.3 Aspect





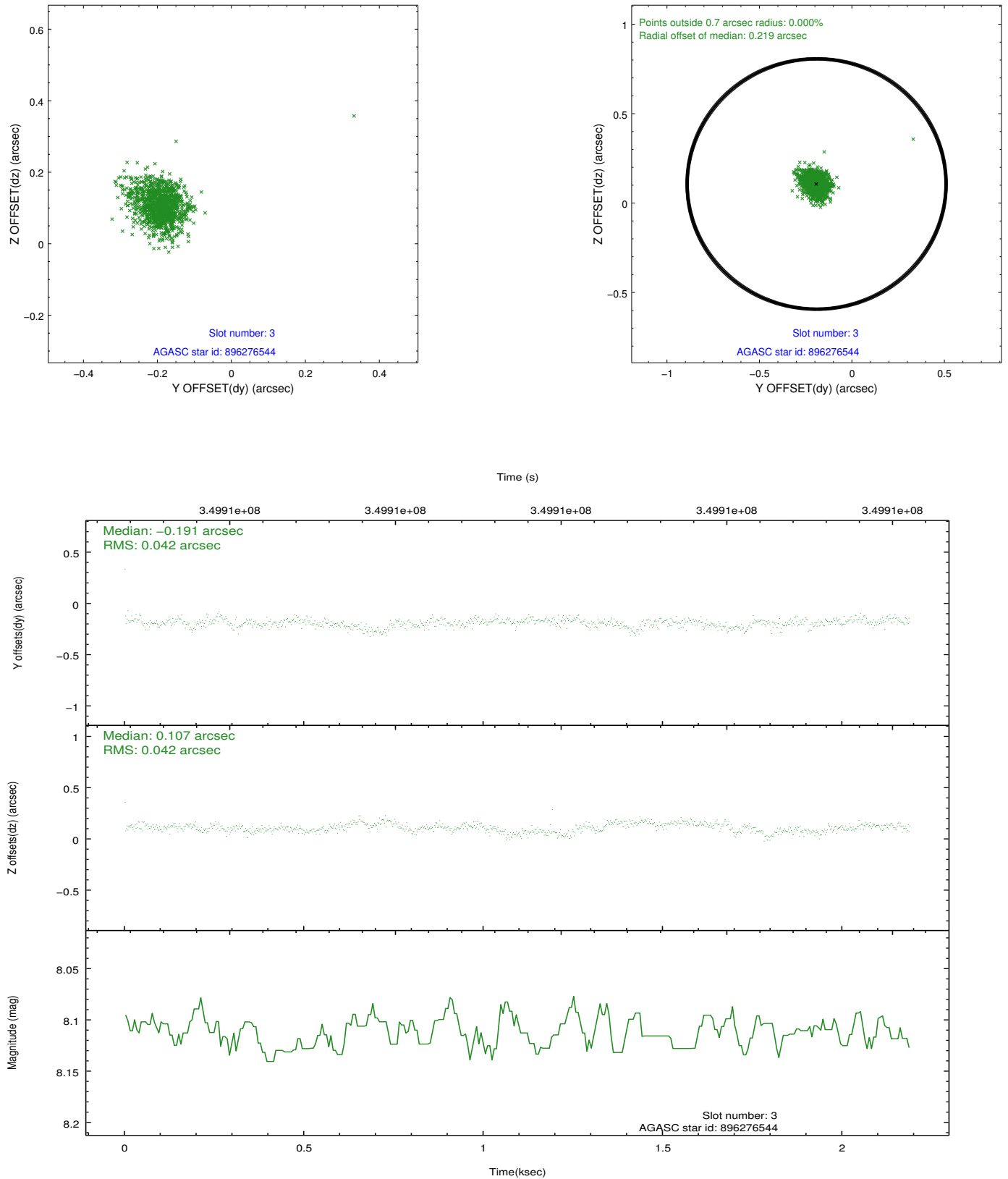
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	534	-0.083	-0.036	0.007	0.012	0.000000	0.000000	926.30	-839.68
1	FID	ACIS-I-4	6.98	534	0.064	0.080	0.007	0.012	0.000000	0.000000	2148.16	1058.73
2	FID	ACIS-I-6	7.04	534	-0.079	0.022	0.007	0.013	0.000000	0.000000	396.06	1704.26
3	GUIDE	896276544	8.11	1068	-0.191	0.107	0.059	0.098	263.666616	-29.255819	1567.85	-1234.06
4	GUIDE	896278088	7.63	1068	-0.167	0.000	0.056	0.085	263.476198	-29.223388	1716.81	-643.98
5	GUIDE	966662752	8.24	1066	0.167	-0.137	0.064	0.102	262.898473	-30.245665	-1871.34	1338.17
6	GUIDE	966794640	9.34	1068	0.114	0.224	0.087	0.137	263.854004	-30.029028	-1244.51	-1669.85
7	GUIDE	966663320	8.36	1066	0.080	-0.190	0.057	0.091	263.144579	-30.119819	-1457.84	550.98

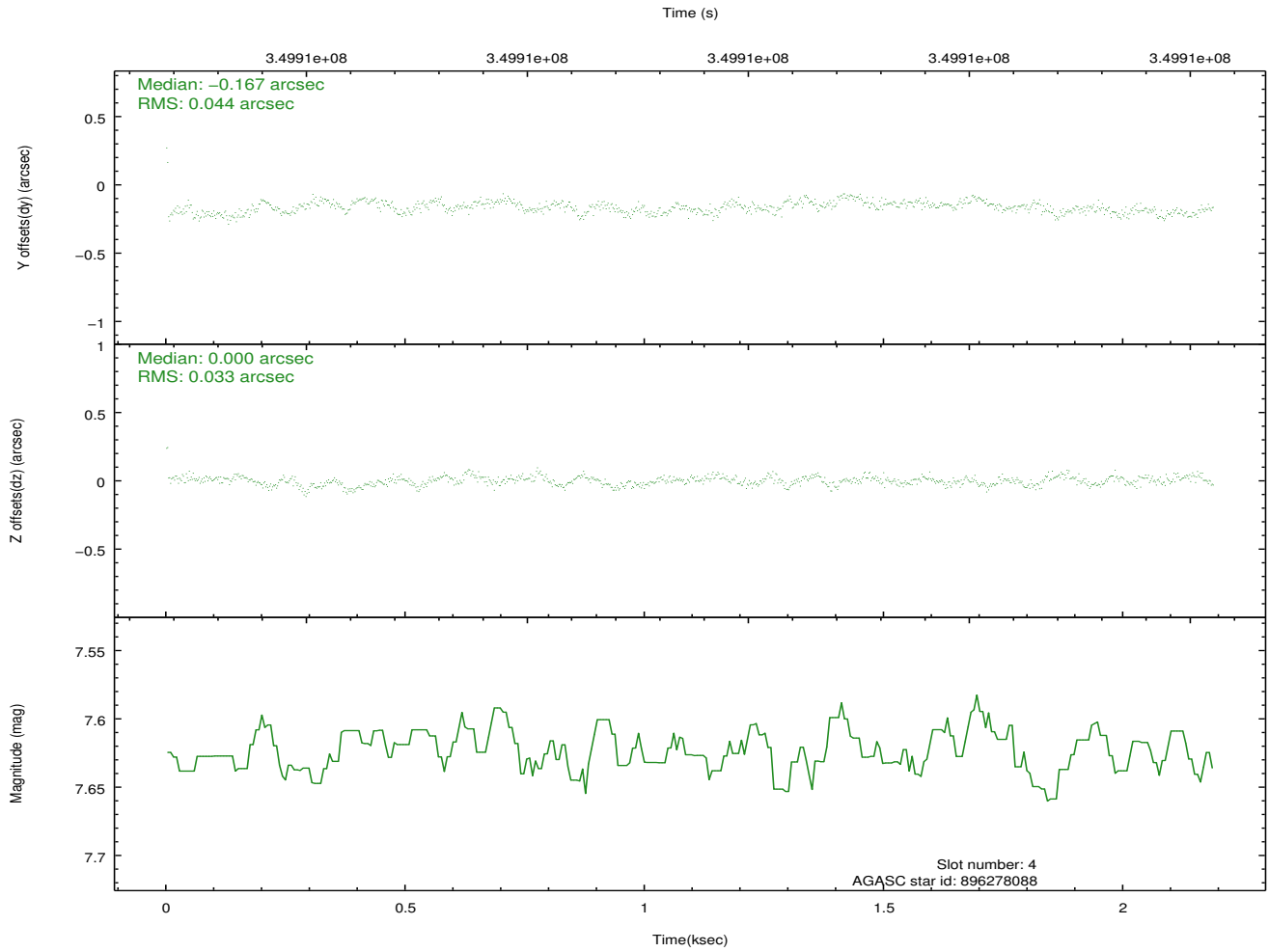
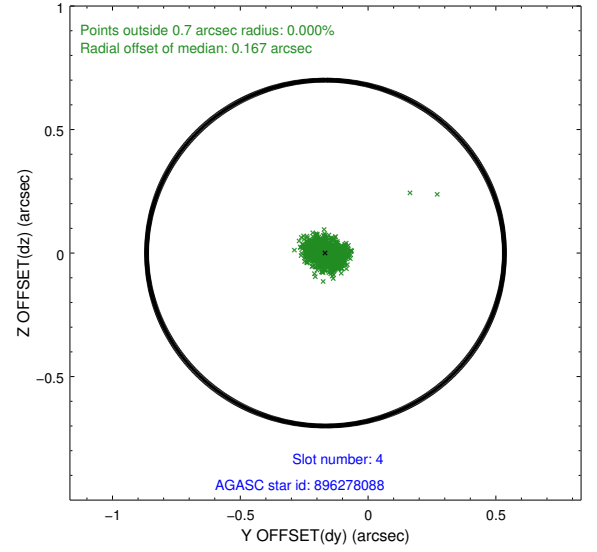
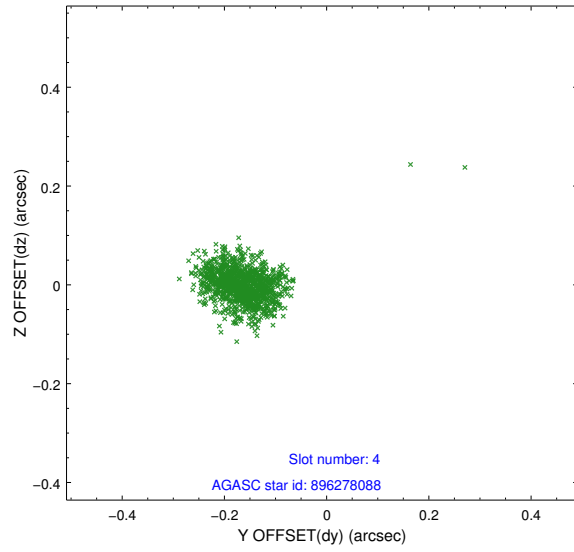


## 2.4 Star Slots

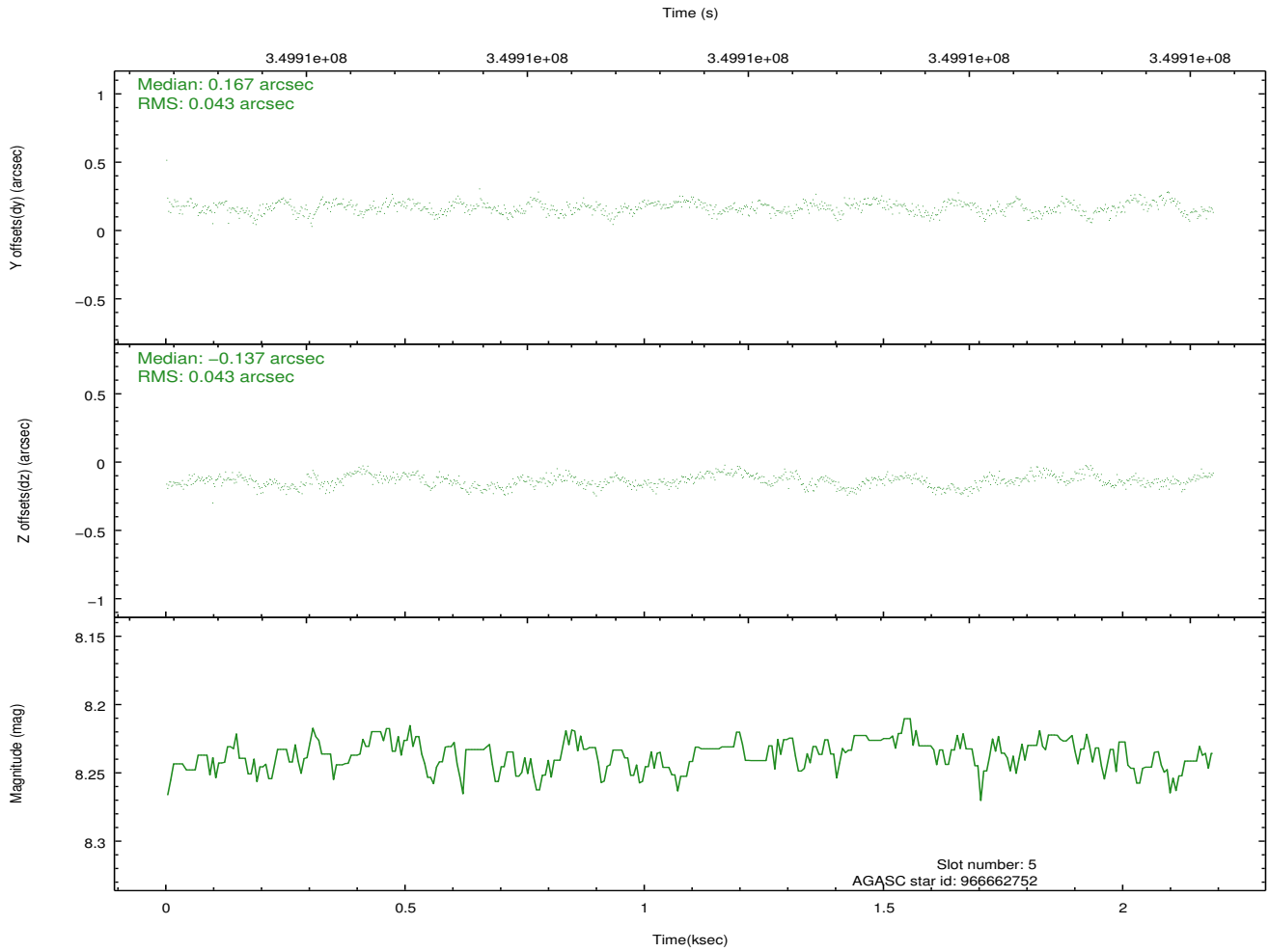
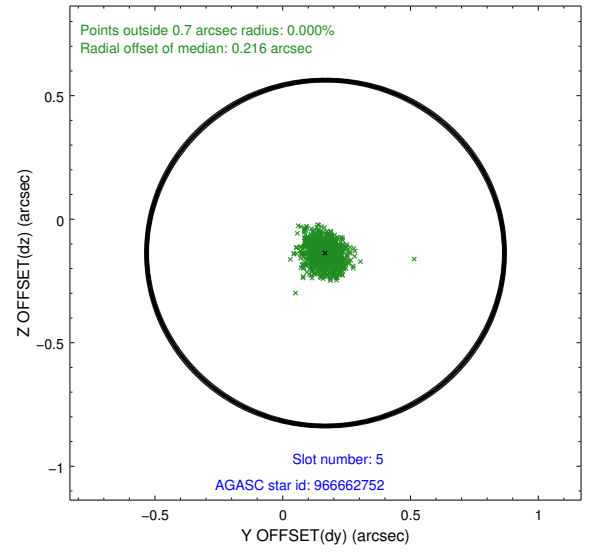
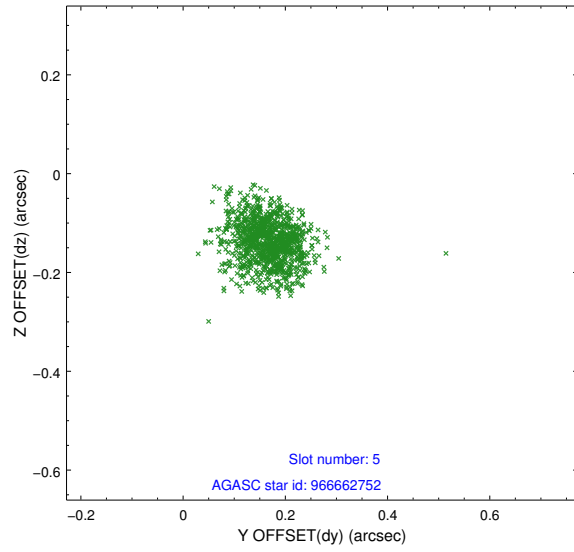
### 2.4.1 Slot 3



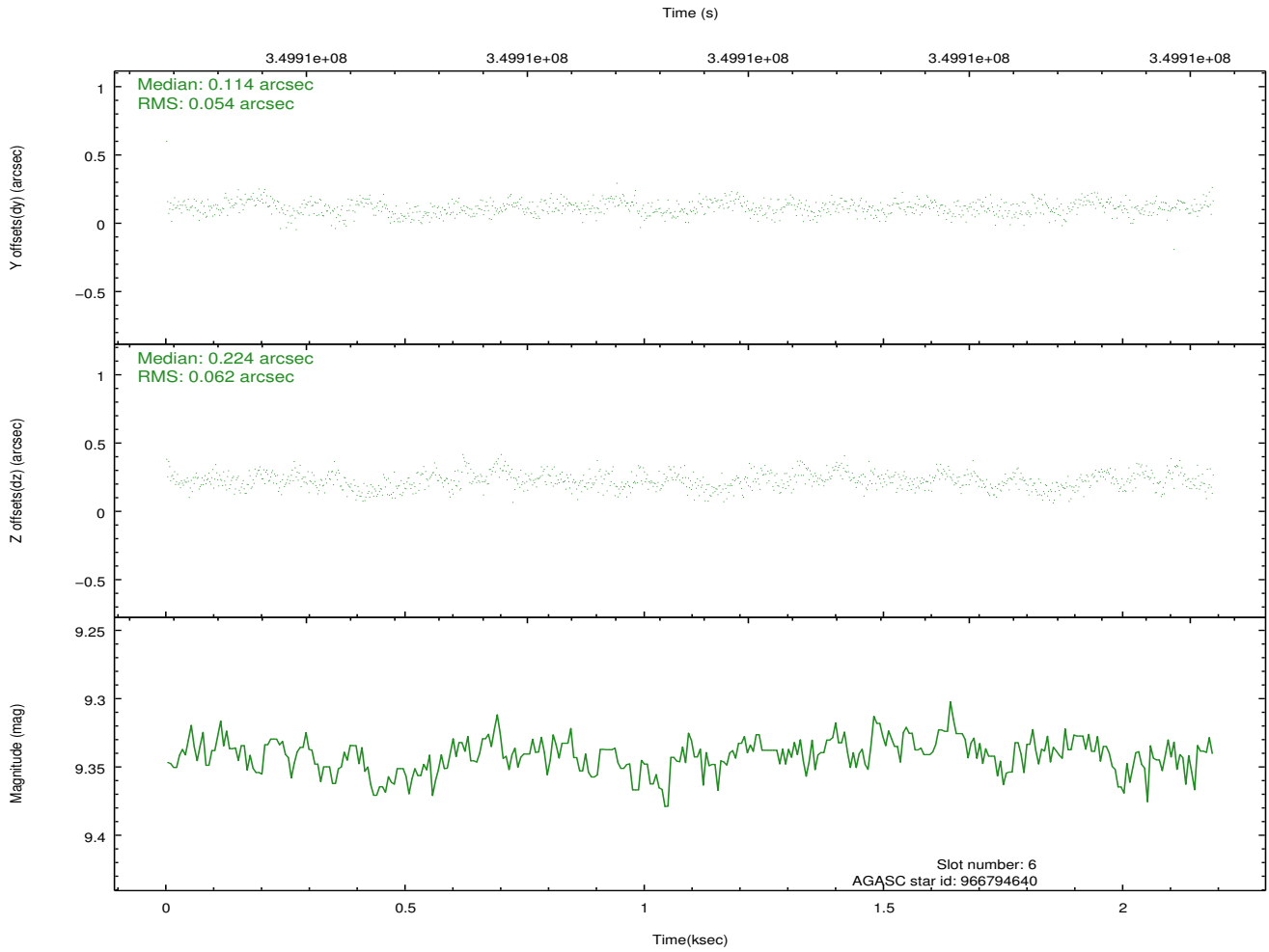
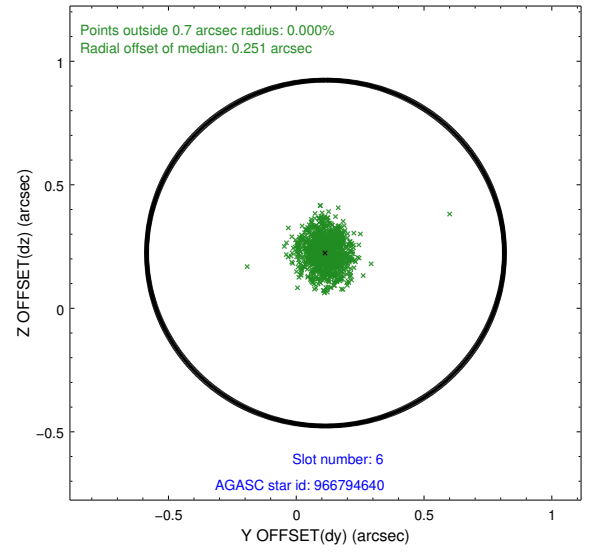
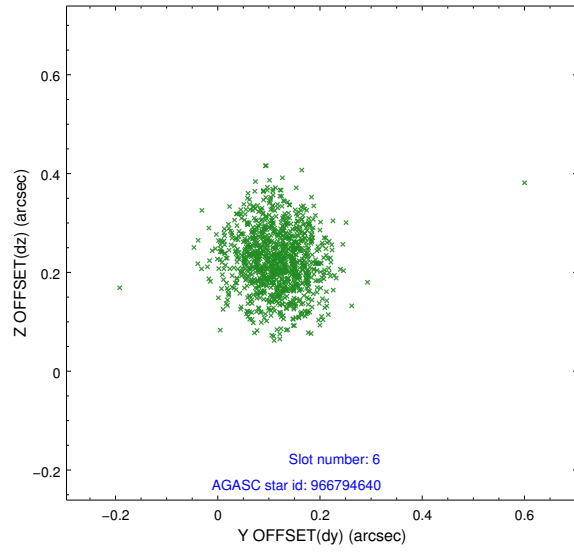
## 2.4.2 Slot 4



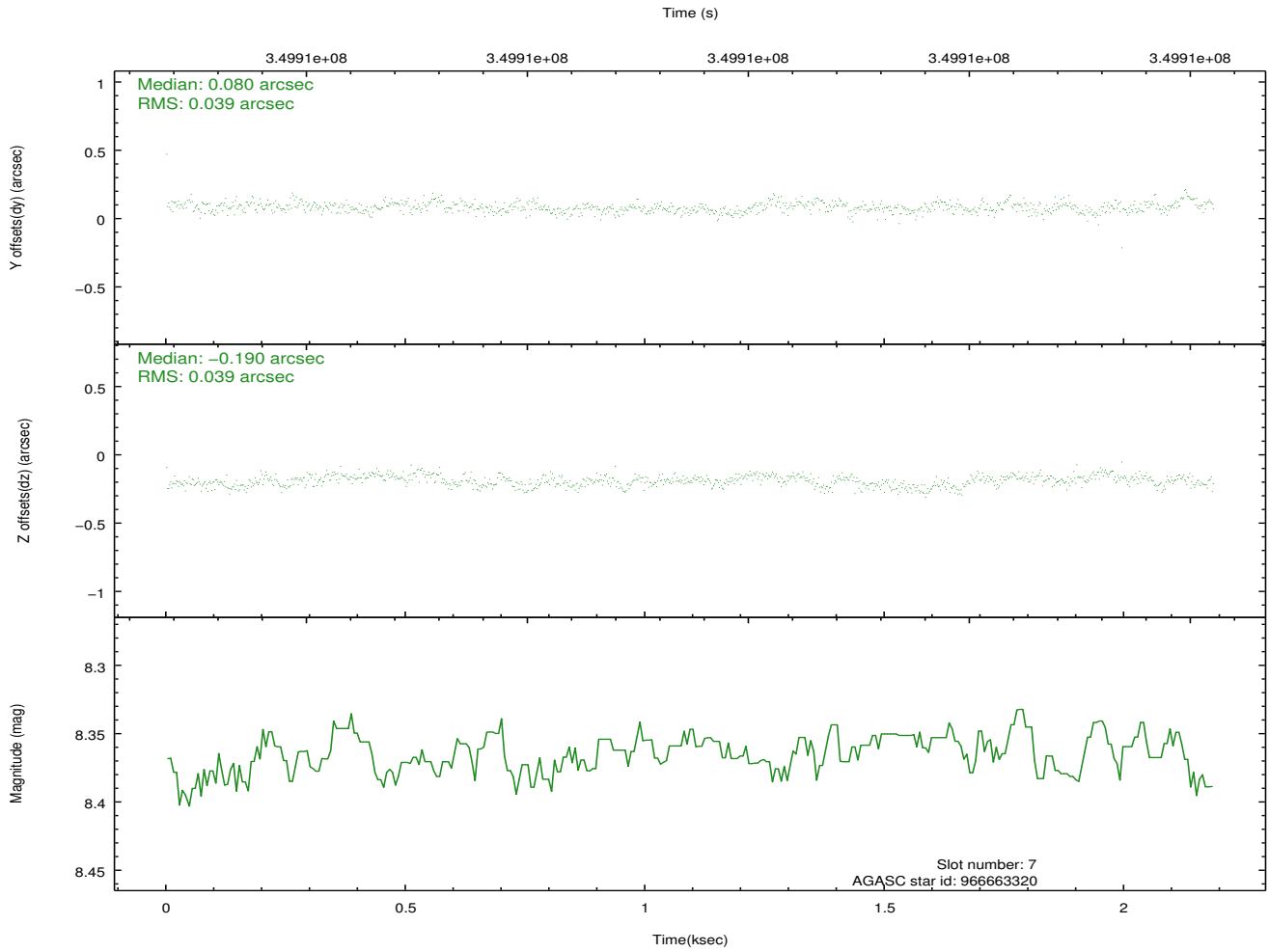
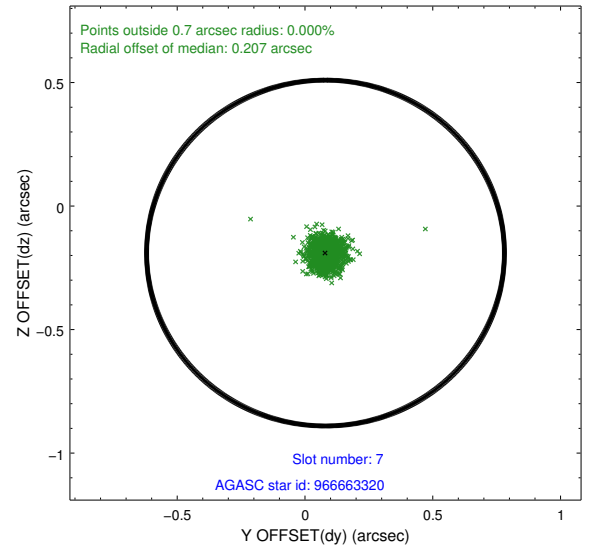
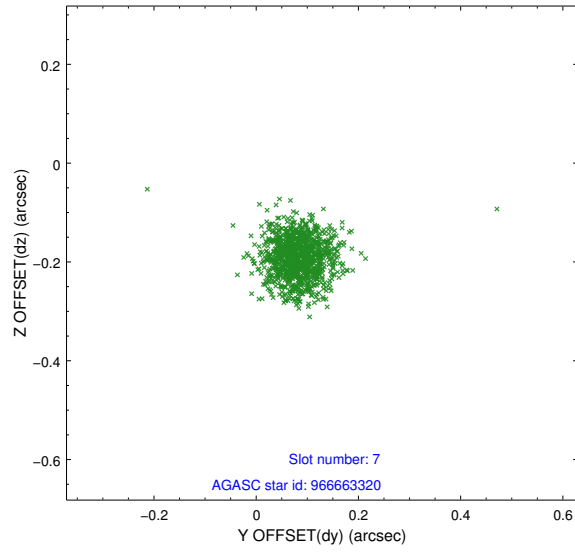
### 2.4.3 Slot 5



## 2.4.4 Slot 6

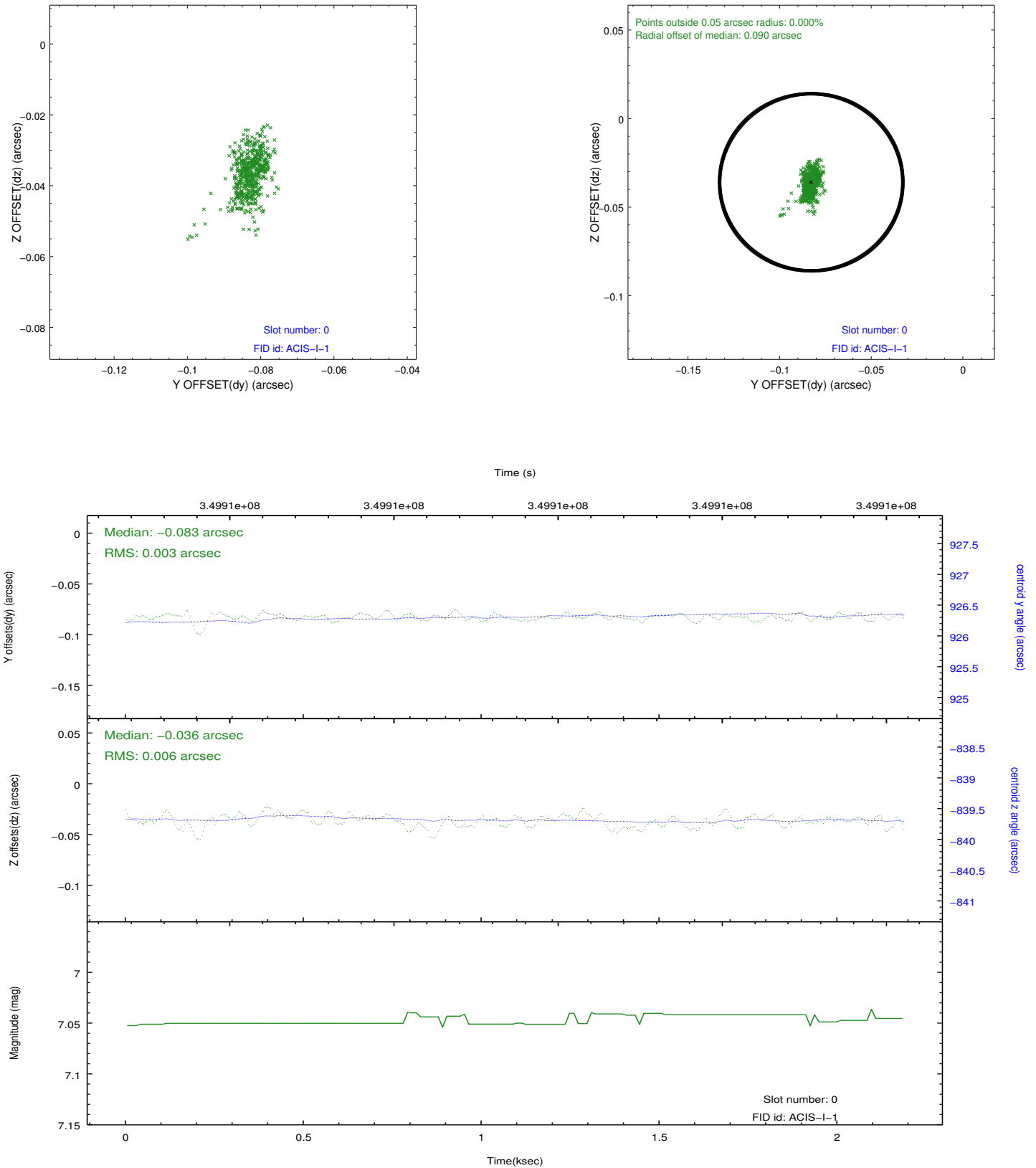


## 2.4.5 Slot 7

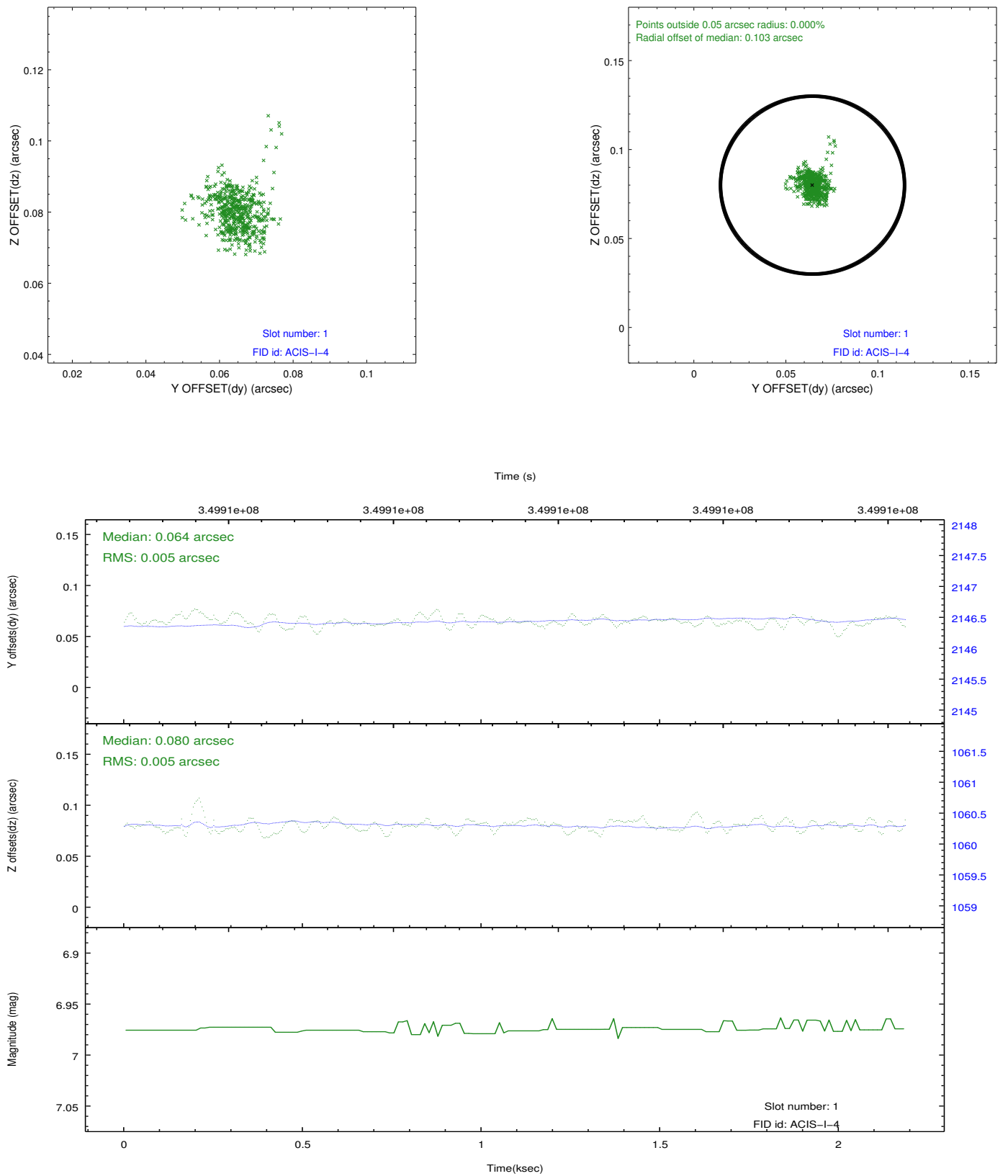


## 2.5 FID Slots

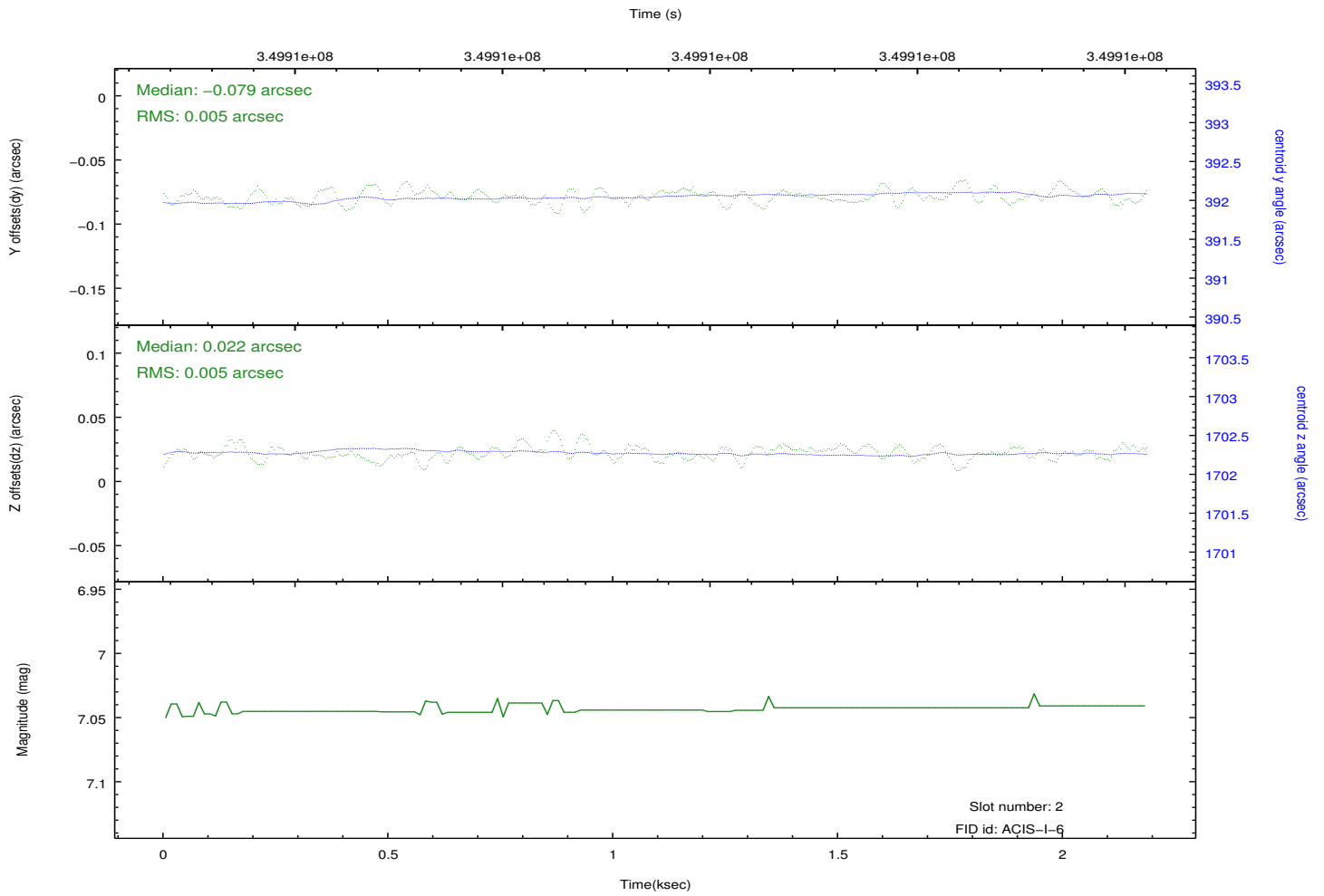
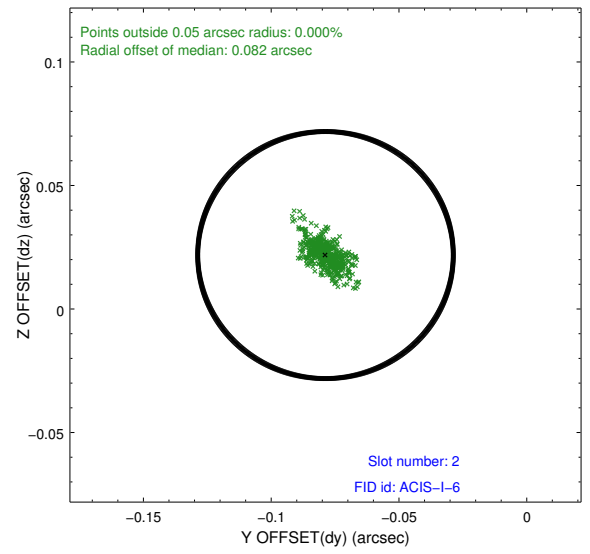
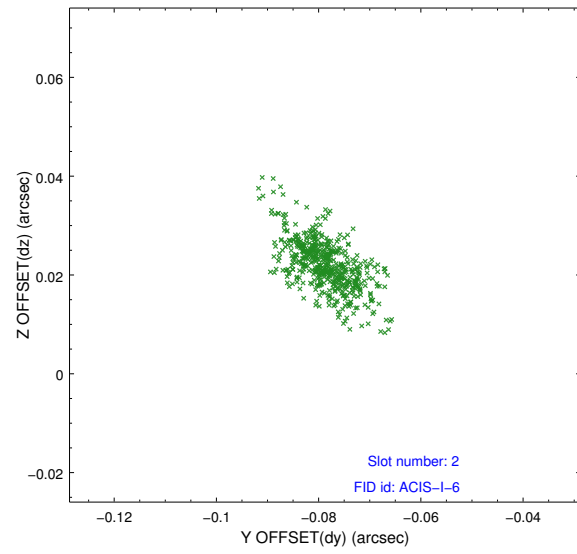
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.18860001

### A.2 Comments

Joint Proposal: NOAO