

# V&V Reference Report

## L2 ASCDS Version : 8.4.3

Observation 13578 - L2 Version 2  
Chandra X-Ray Center

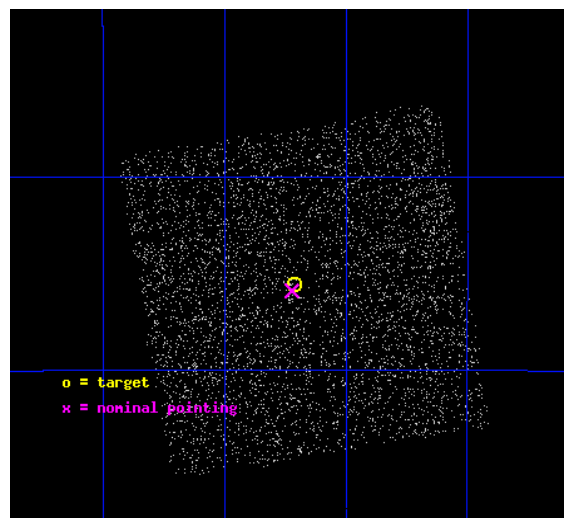
L2 Processing Date : Feb 25 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Aspect . . . . .	6
2.4	Star Slots . . . . .	9
2.4.1	Slot 3 . . . . .	9
2.4.2	Slot 4 . . . . .	10
2.4.3	Slot 5 . . . . .	11
2.4.4	Slot 6 . . . . .	12
2.4.5	Slot 7 . . . . .	13
2.5	FID Slots . . . . .	14
2.5.1	Slot 0 . . . . .	14
2.5.2	Slot 1 . . . . .	15
2.5.3	Slot 2 . . . . .	16
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

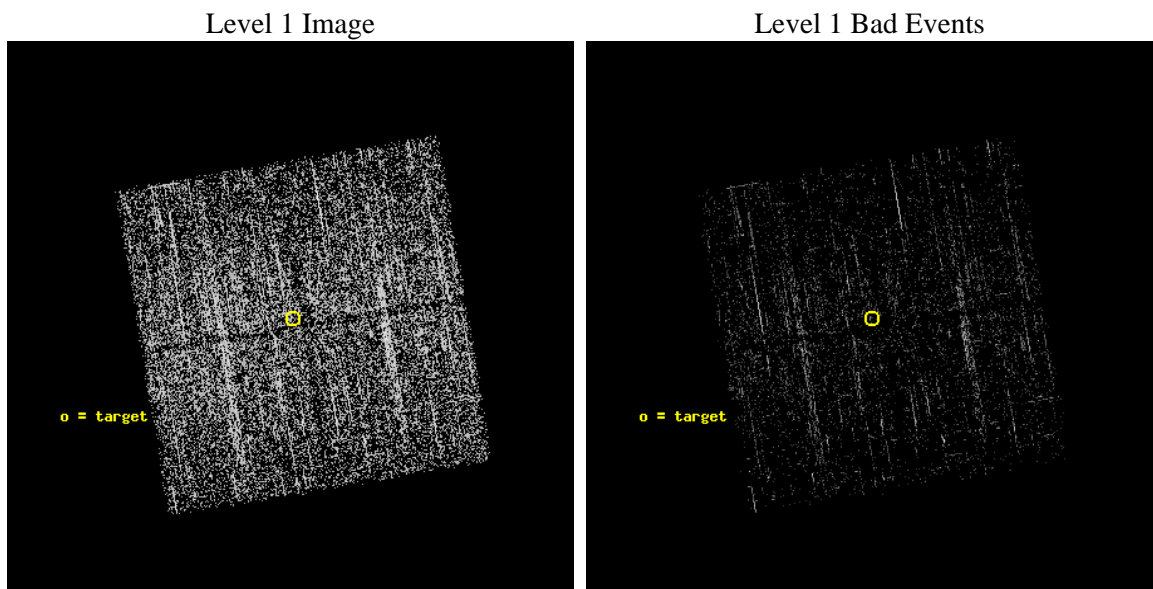
seq_num	401354	Sequence number
obs_id	13578	Observation id
title	Completing the Galactic Bulge Survey: categorizing the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr P Jonker	Principal investigator
object	GBS13-5	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	265.928635	Observer's specified target RA [deg]
dec_targ	-32.092911	Observer's specified target Dec [deg]
ra_nom	265.93070449439	Nominal RA [deg]
dec_nom	-32.098221029268	Nominal Dec [deg]
roll_nom	260.48440436577	Nominal Roll [deg]
revision	2	Processing version of data
ontime	1968.4590448141	Sum of GTIs [s]
livetime	1942.7396782351	Livetime [s]
ontime0	1971.6000151634	Sum of GTIs [s]
ontime1	1971.6000151634	Sum of GTIs [s]
ontime2	1971.6000151634	Sum of GTIs [s]
ontime3	1968.4590448141	Sum of GTIs [s]
l2events	5039	Number of level 2 events



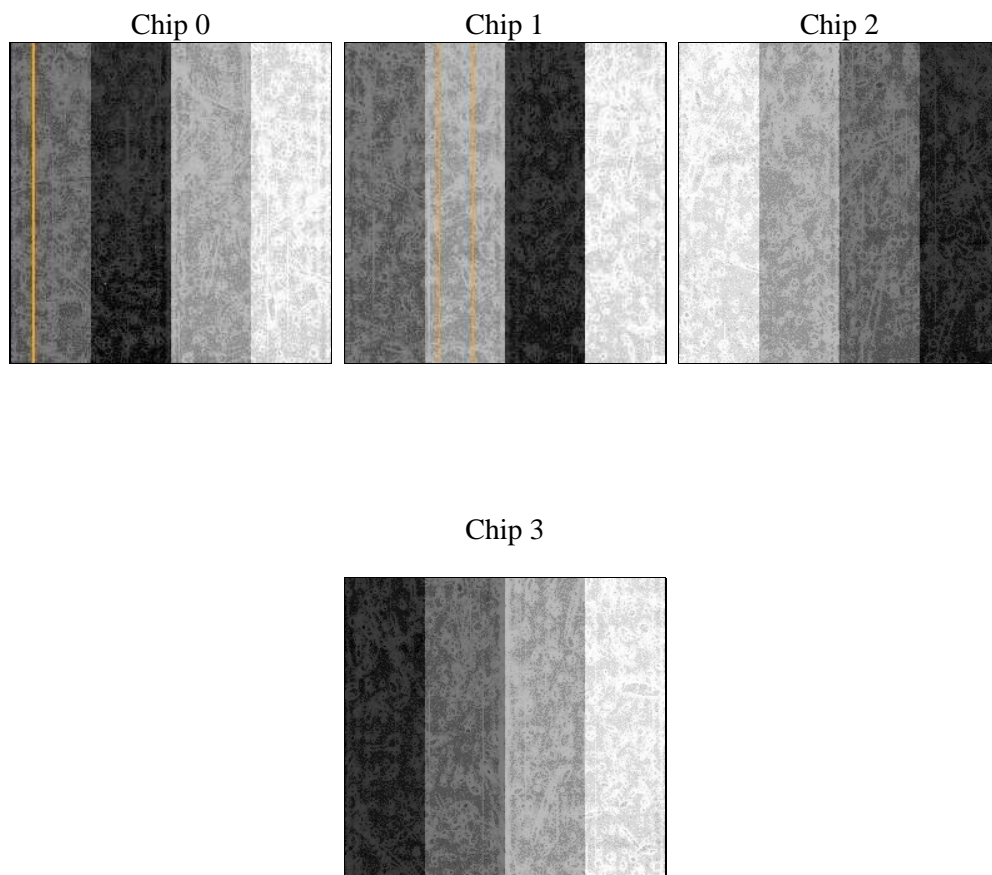
## 2 OBI

### 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	1968.4590448141	Sum of GTIs [s]
caldsver	4.4.8	&#160	ontime0	1971.6000151634	Sum of GTIs [s]
date	2012-02-26T01:17:48	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	1968.4590448141	Sum of GTIs [s]
			l1events	44319	Number of level 1 events

### 2.1.4 Events

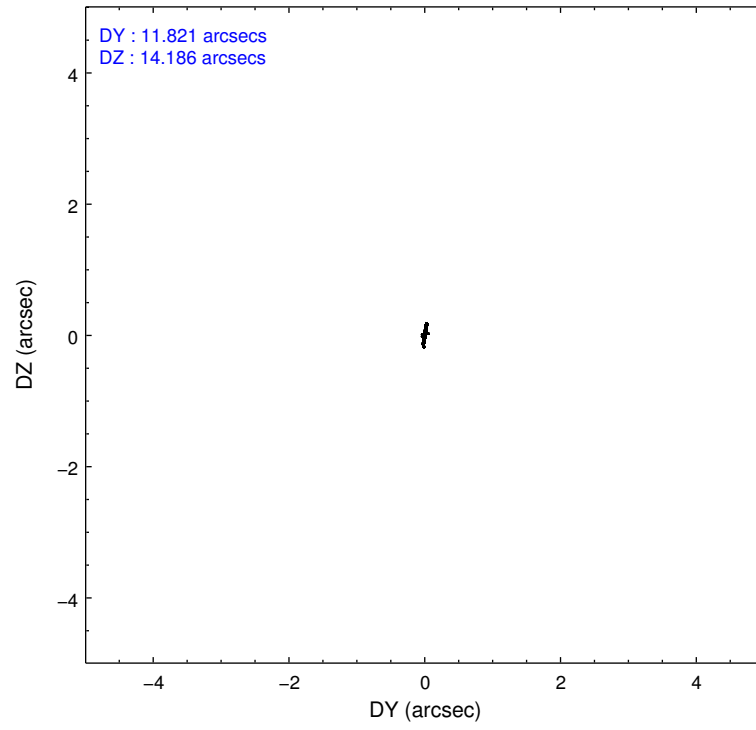
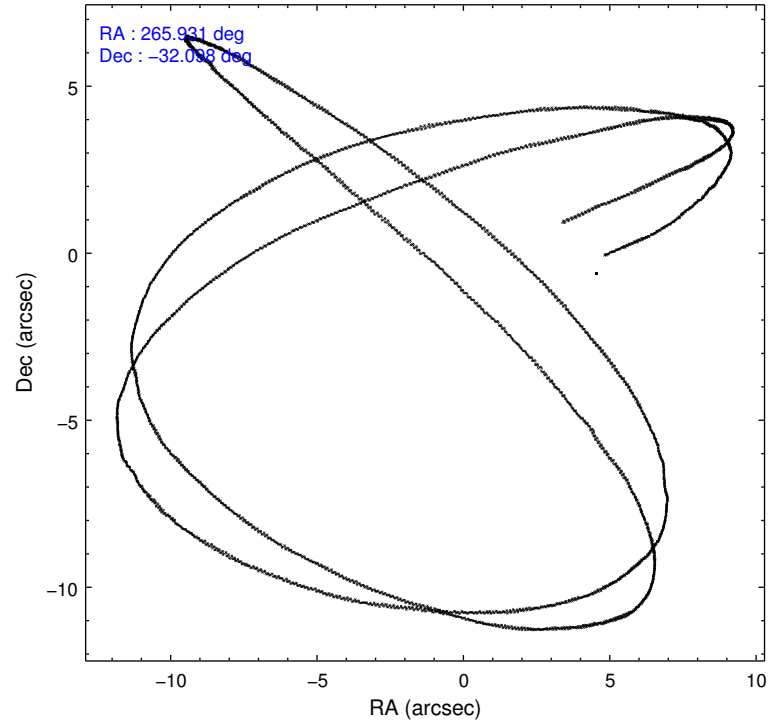
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	10626	10824	11221	11648
rejected events	9180	9255	9673	10225
rejected %	86%	85%	86%	87%

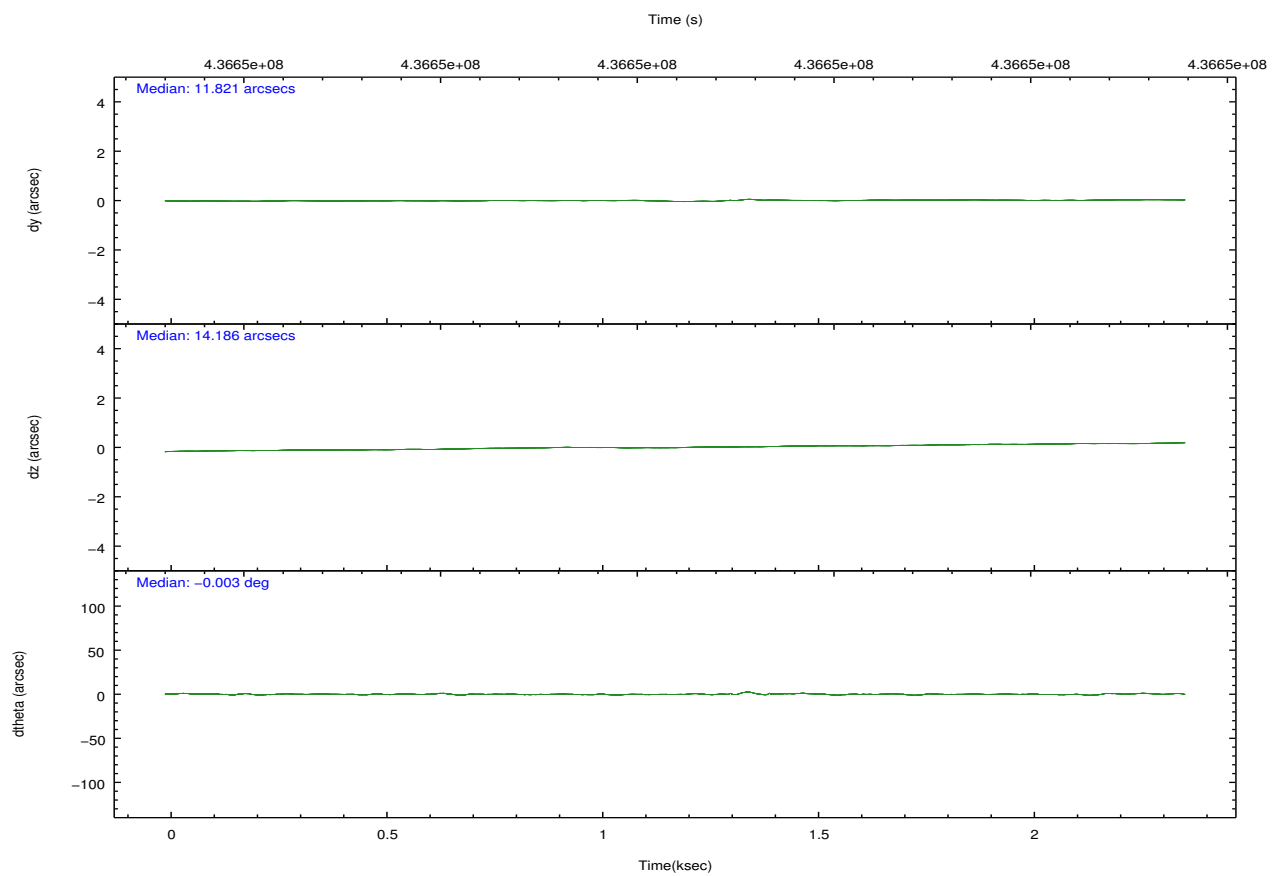
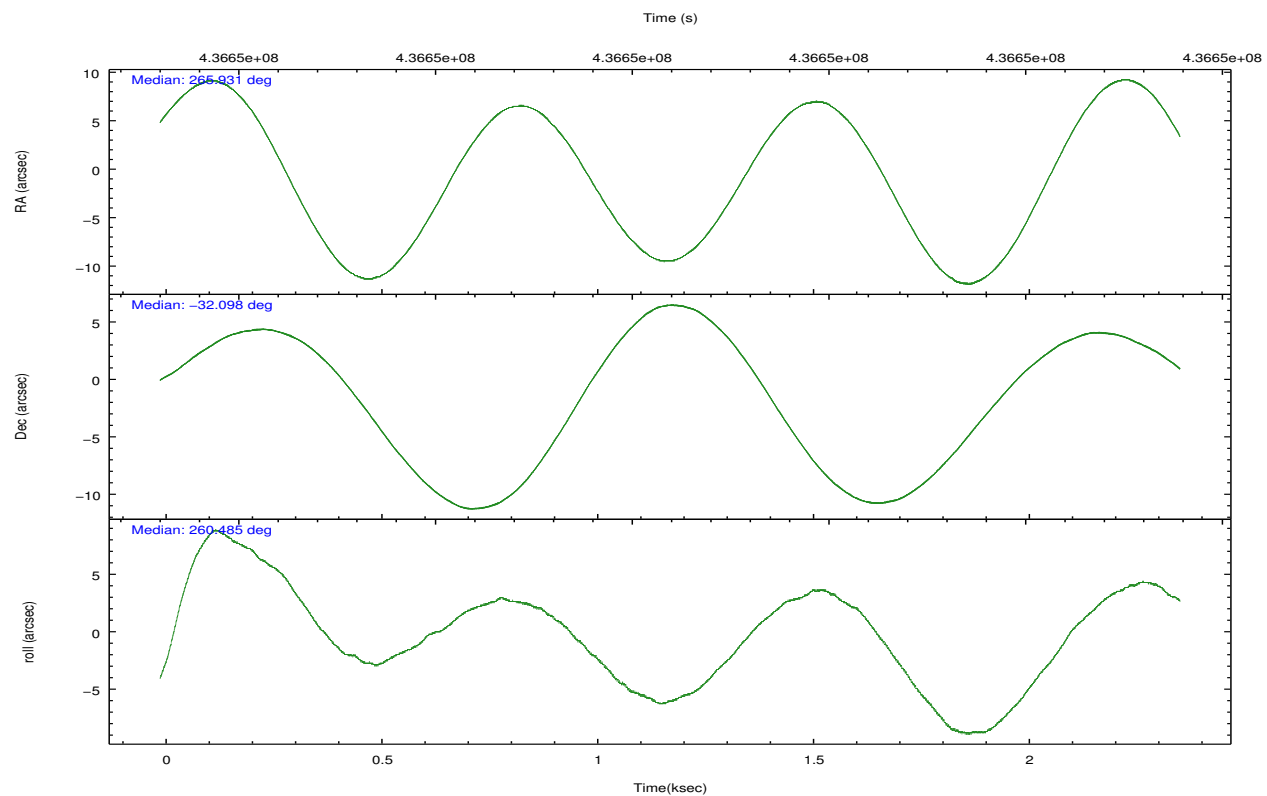
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	547	603	576	554
	5%	5%	5%	4%
grade 1 events	12	8	5	10
	0%	0%	0%	0%
grade 2 events	321	367	379	305
	3%	3%	3%	2%
grade 3 events	163	158	152	159
	1%	1%	1%	1%
grade 4 events	121	137	144	130
	1%	1%	1%	1%
grade 5 events	531	548	482	565
	4%	5%	4%	4%
grade 6 events	298	313	303	278
	2%	2%	2%	2%
grade 7 events	8633	8690	9180	9647
	81%	80%	81%	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	265.918945	265.9307044943898	Subarray requested	NONE	NONE
[deg] Pointing Dec	-32.072725	-32.09822102926773	Alternating exposures requested	N	N
[deg] Pointing Roll	260.269512	260.4844043657714	[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)	436649096.184000	436648570.97612			
Observation start date	2011-11-02T19:23:50	2011-11-02T19:16:10			
[s] Observation end time (MET)	436651276.184000	436651410.73877			
Observation end date	2011-11-02T20:00:10	2011-11-02T20:03:30			
Read mode	TIMED	TIMED			

## 2.3 Aspect



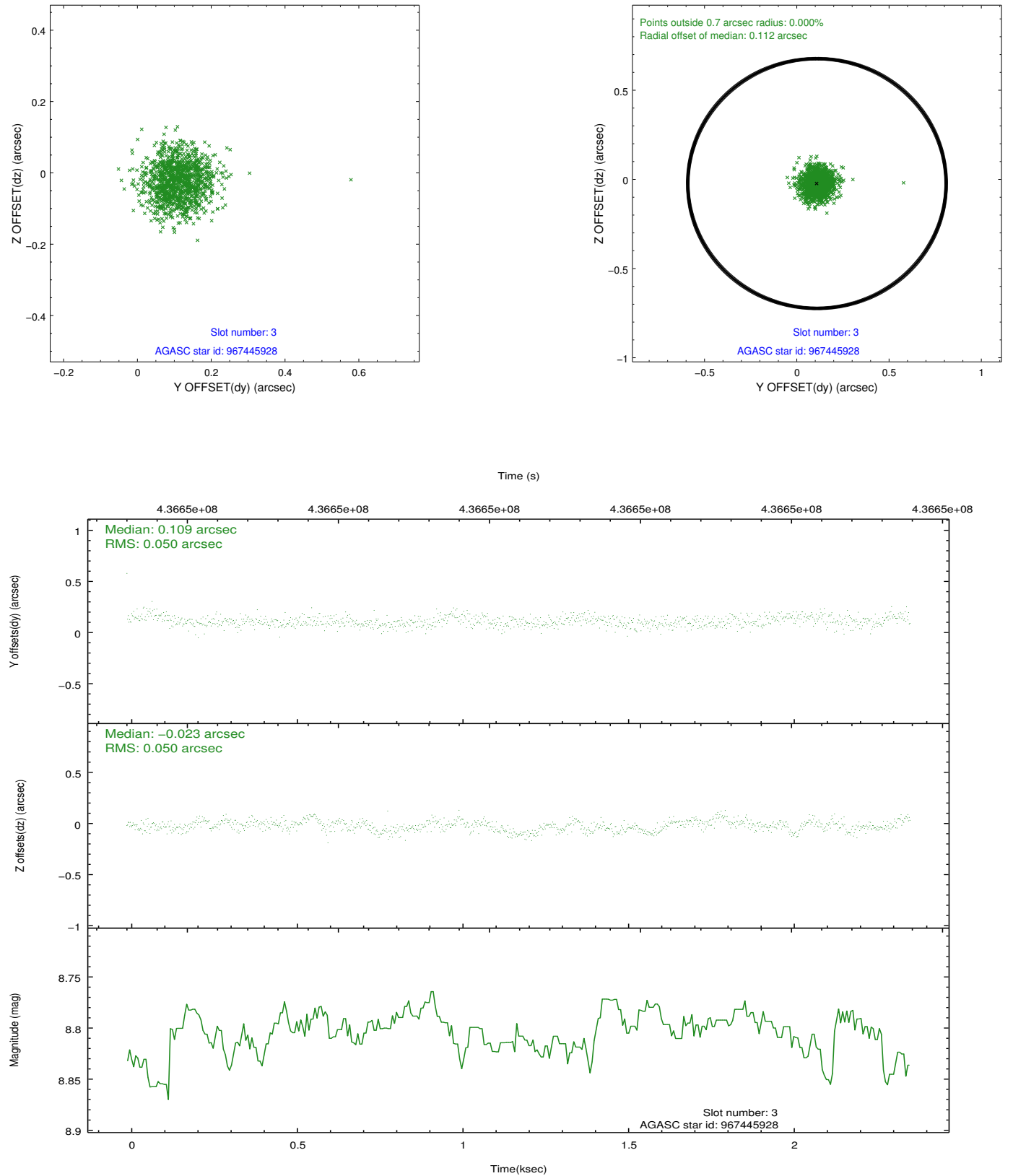


### Slot Statistics

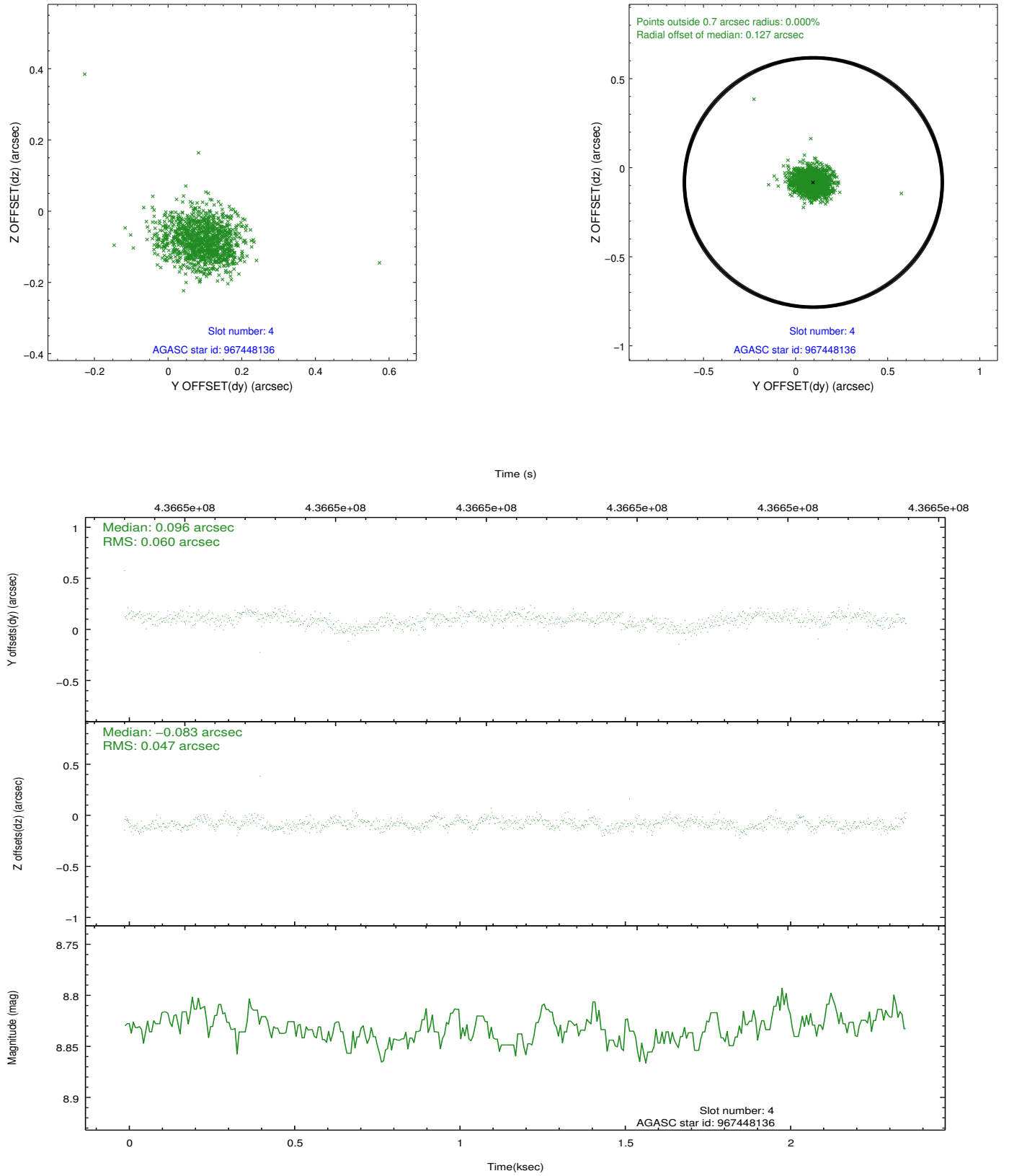
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.05	577	0.040	-0.002	0.007	0.012	0.000000	0.000000	927.78	-837.77
1	FID	ACIS-I-5	7.04	577	-0.202	0.049	0.006	0.011	0.000000	0.000000	-1819.08	1058.36
2	FID	ACIS-I-6	7.04	577	0.071	0.023	0.008	0.013	0.000000	0.000000	390.33	1705.98
3	GUIDE	967445928	8.80	1154	0.109	-0.023	0.075	0.119	266.024801	-32.612408	1862.89	644.49
4	GUIDE	967448136	8.83	1154	0.096	-0.083	0.078	0.125	265.900071	-32.546602	1694.15	231.75
5	GUIDE	967448688	8.10	1154	-0.031	0.155	0.076	0.118	265.570021	-32.523235	1781.99	-769.77
6	GUIDE	966793104	9.01	1154	-0.033	-0.116	0.088	0.137	265.489379	-31.350728	-2332.83	-1742.13
7	GUIDE	966926880	8.68	1153	-0.140	0.068	0.073	0.119	265.970408	-31.411350	-2374.21	-248.57

## 2.4 Star Slots

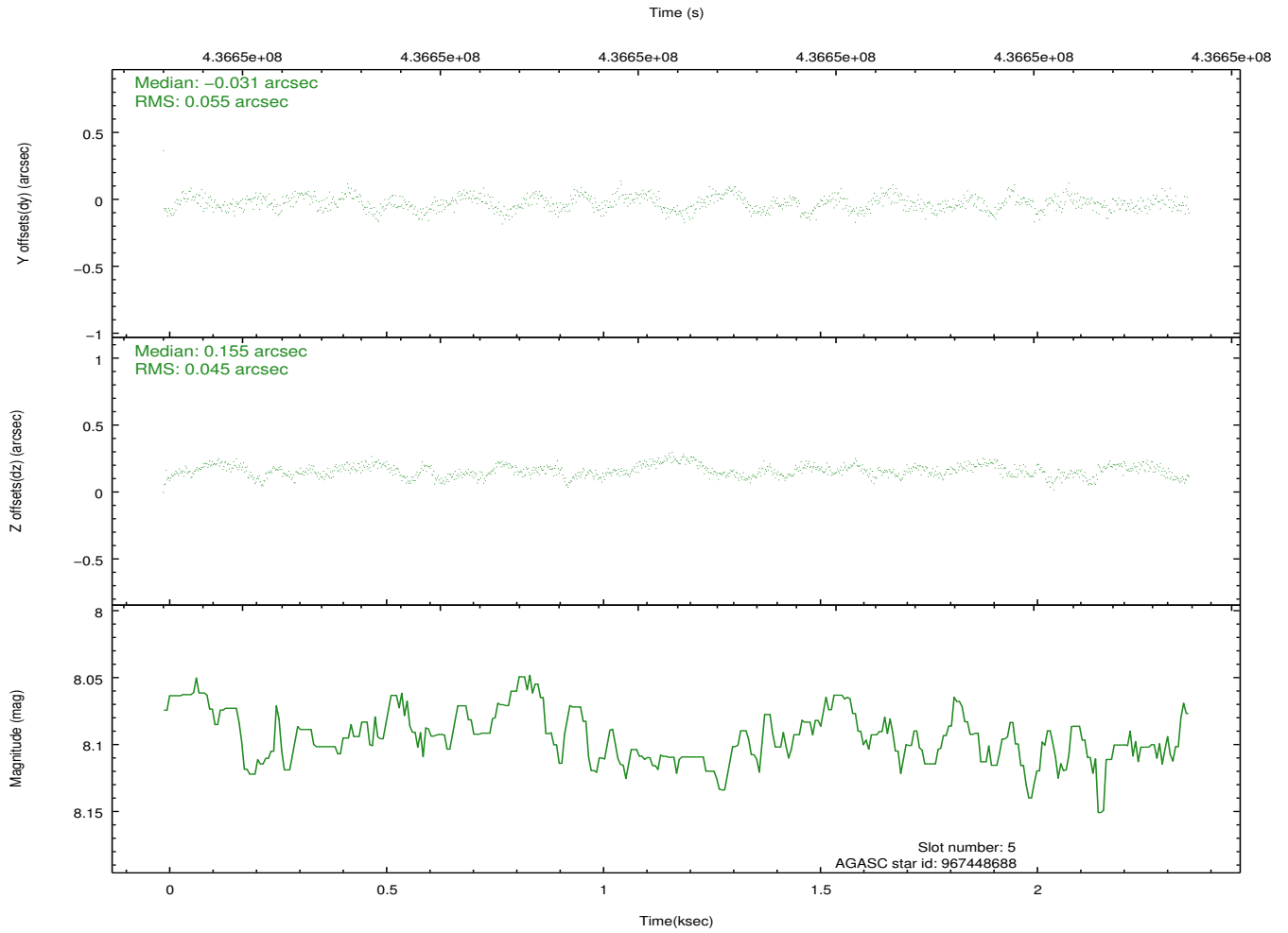
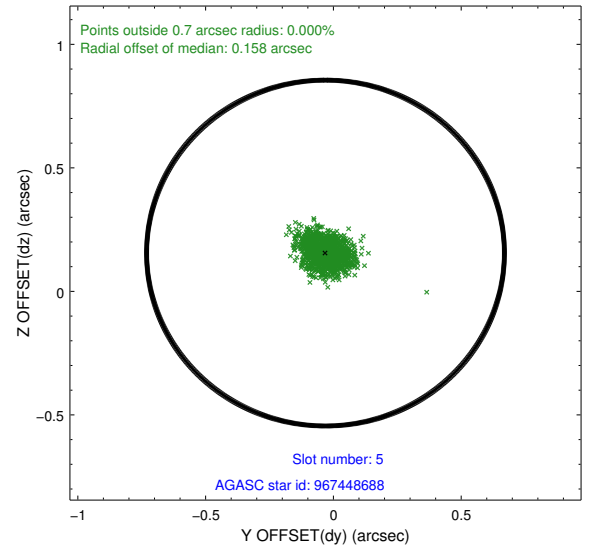
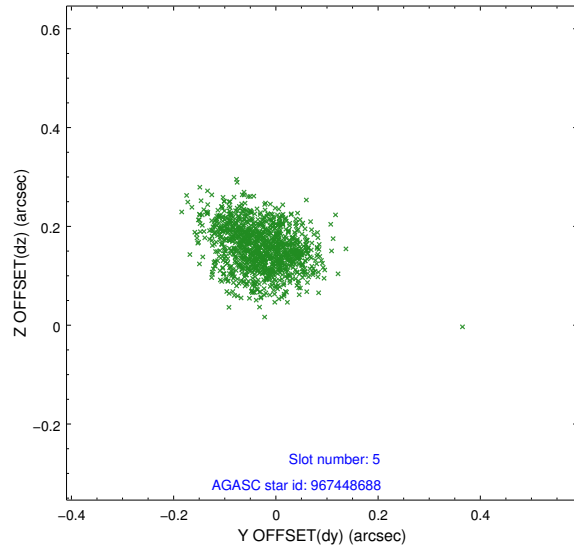
### 2.4.1 Slot 3



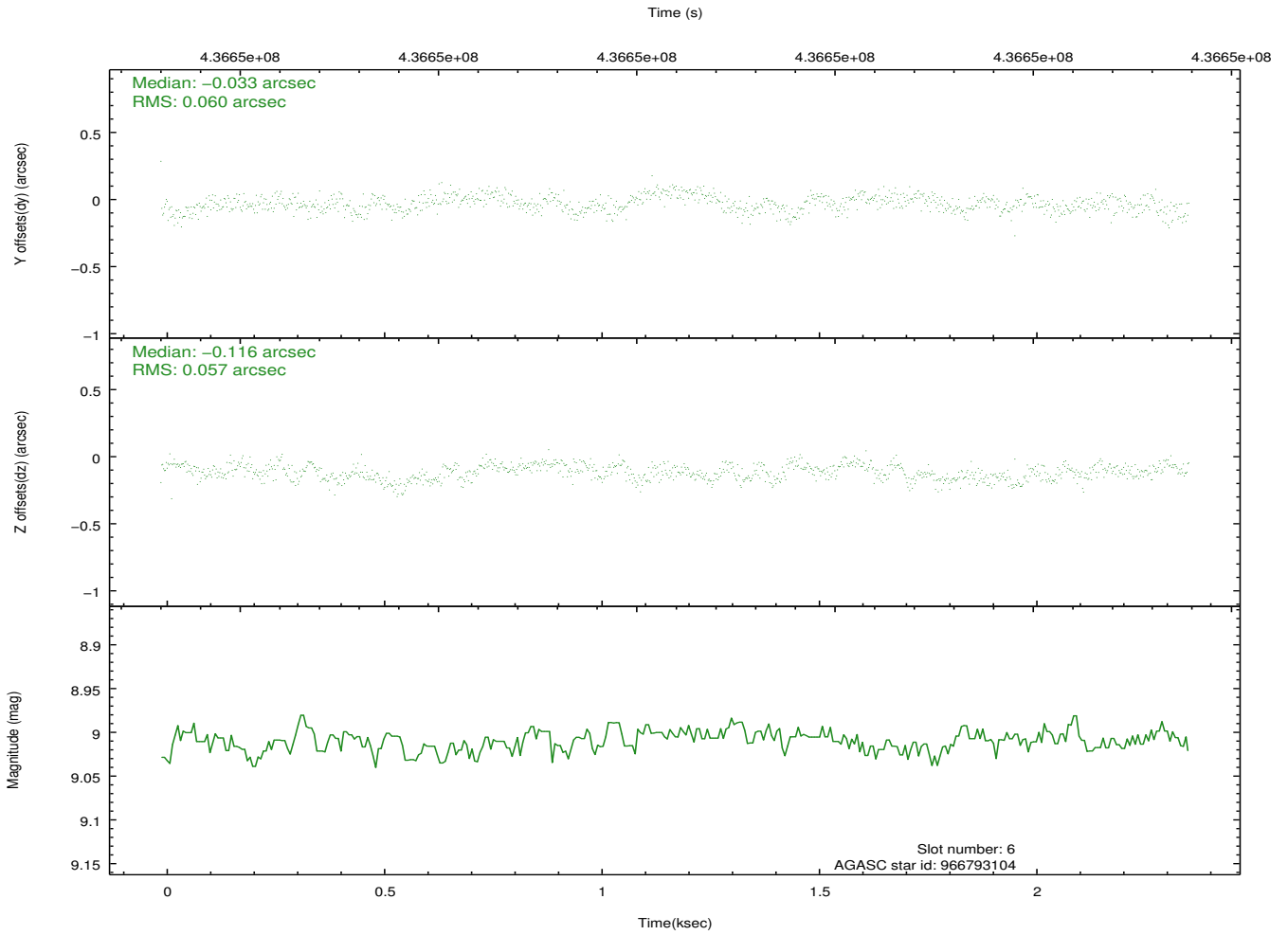
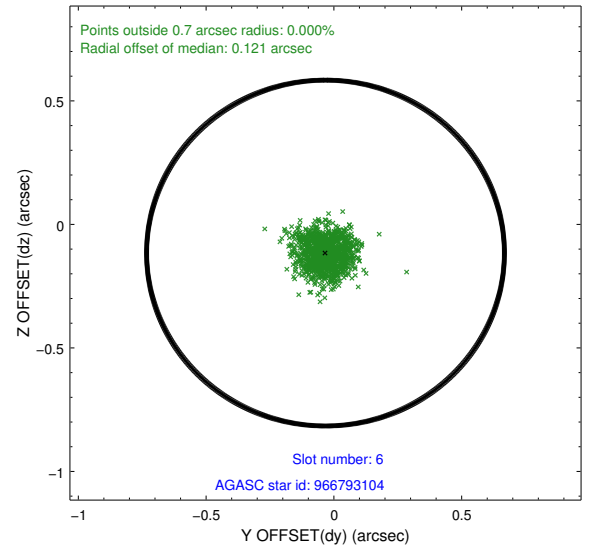
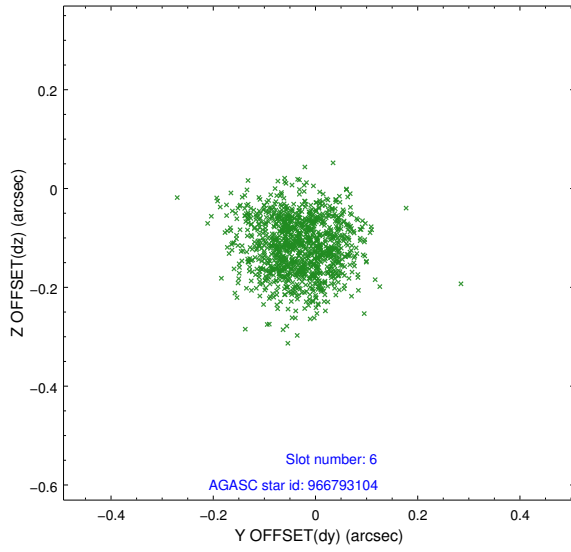
## 2.4.2 Slot 4



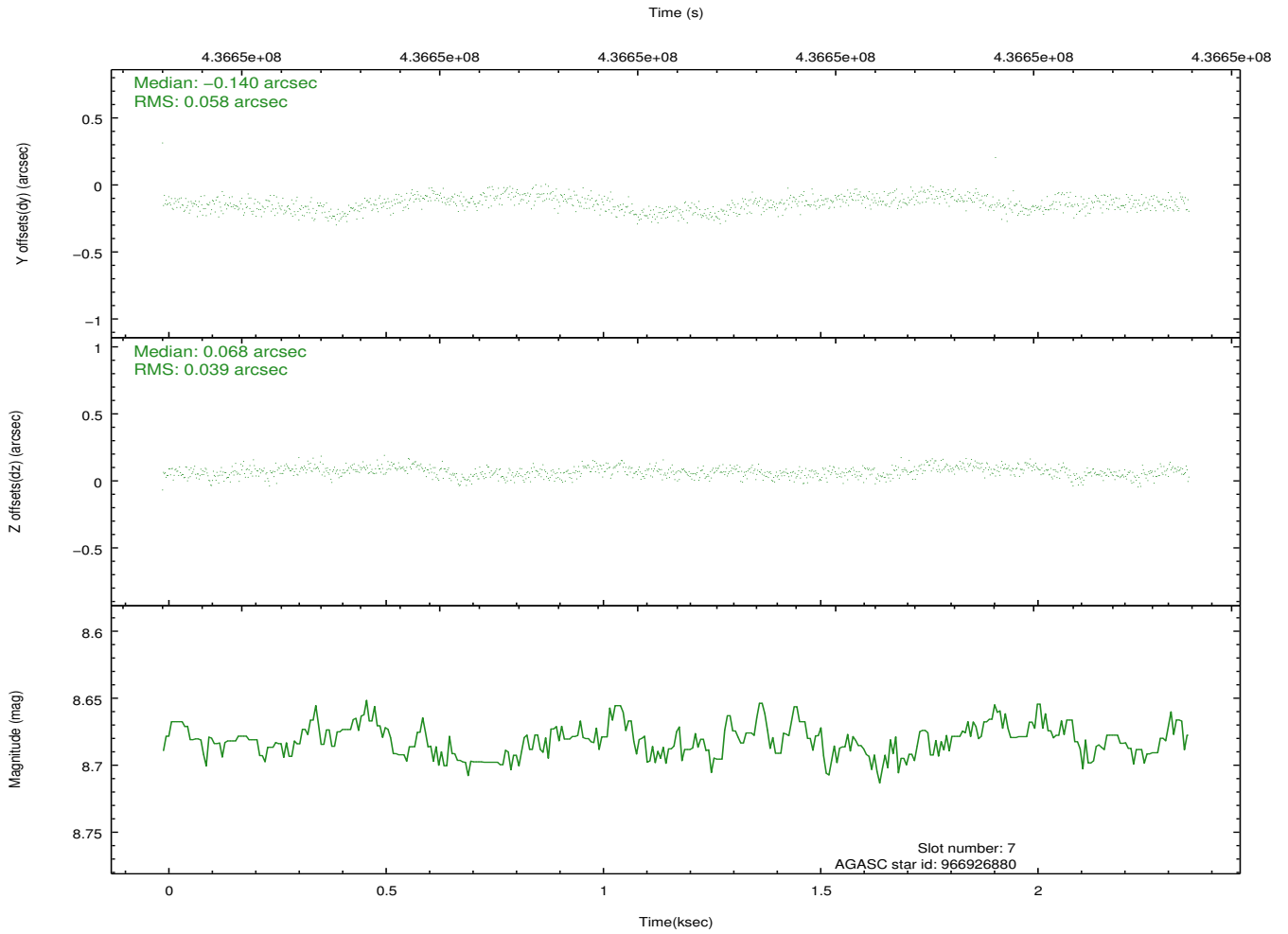
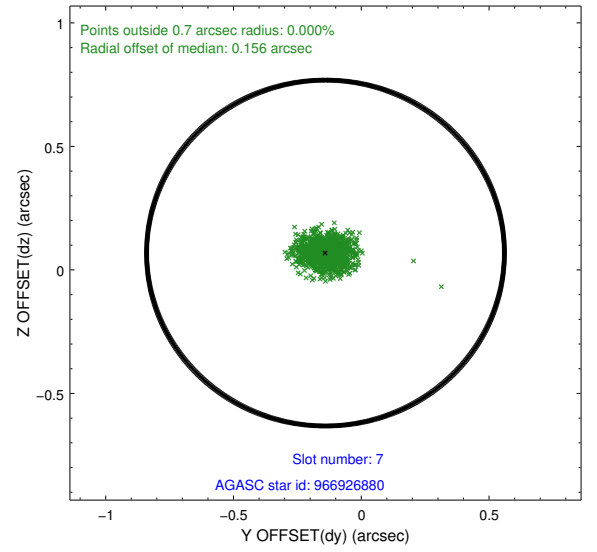
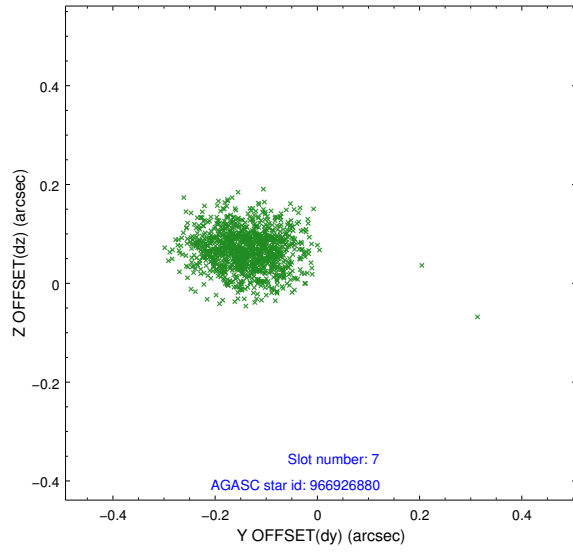
### 2.4.3 Slot 5



## 2.4.4 Slot 6

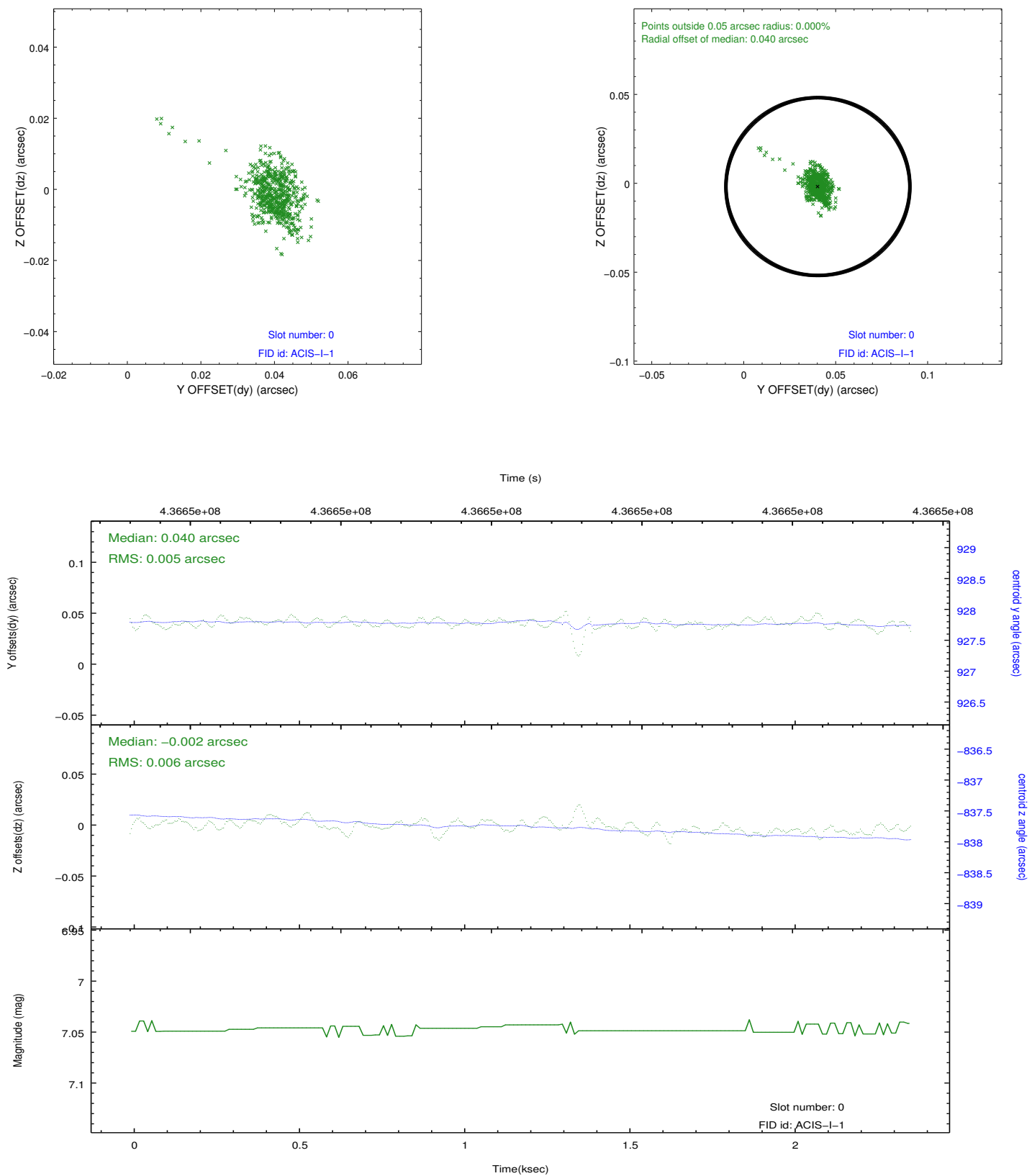


## 2.4.5 Slot 7

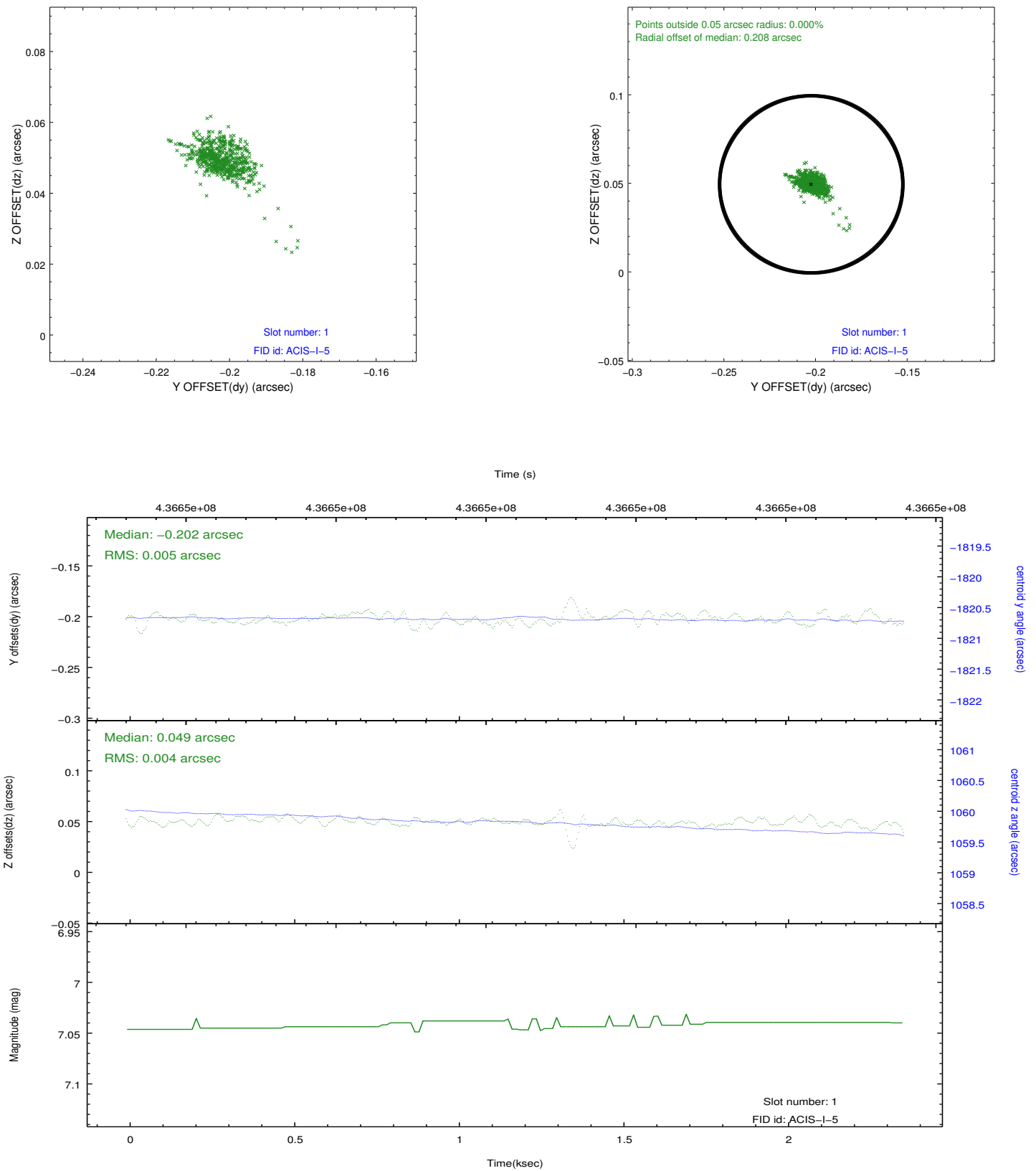


## 2.5 FID Slots

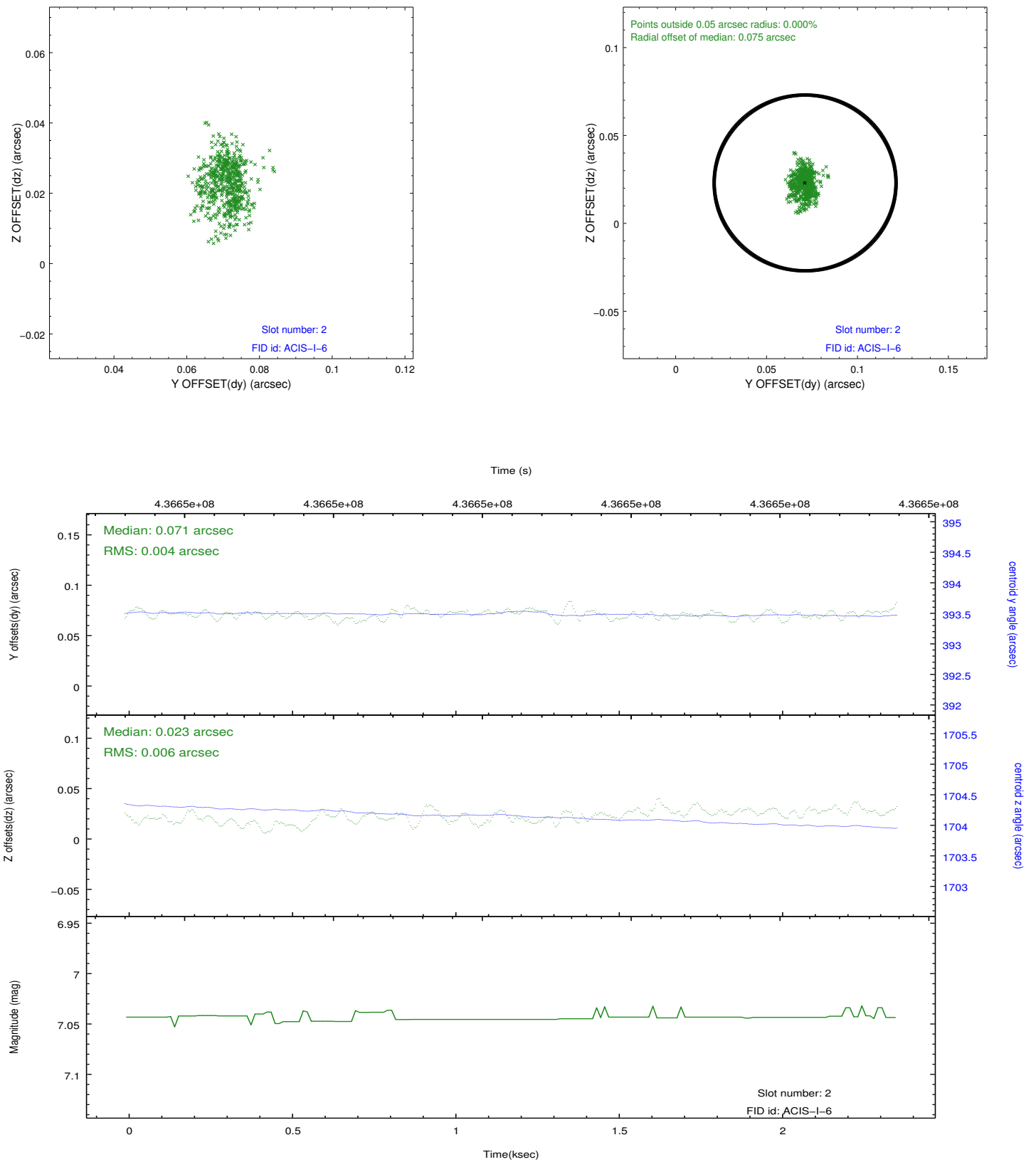
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.9684590448141

## A.2 Comments

Joint Proposal: NOAO