

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10000 - L2 Version 2  
Chandra X-Ray Center

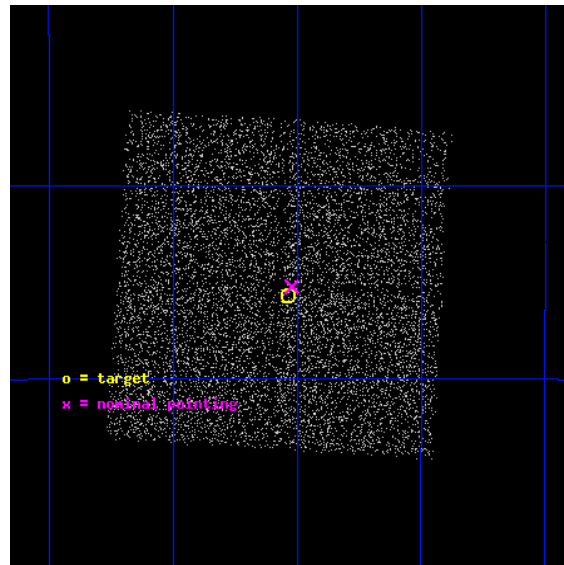
L2 Processing Date : Jun 1 2012

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# 1 Front

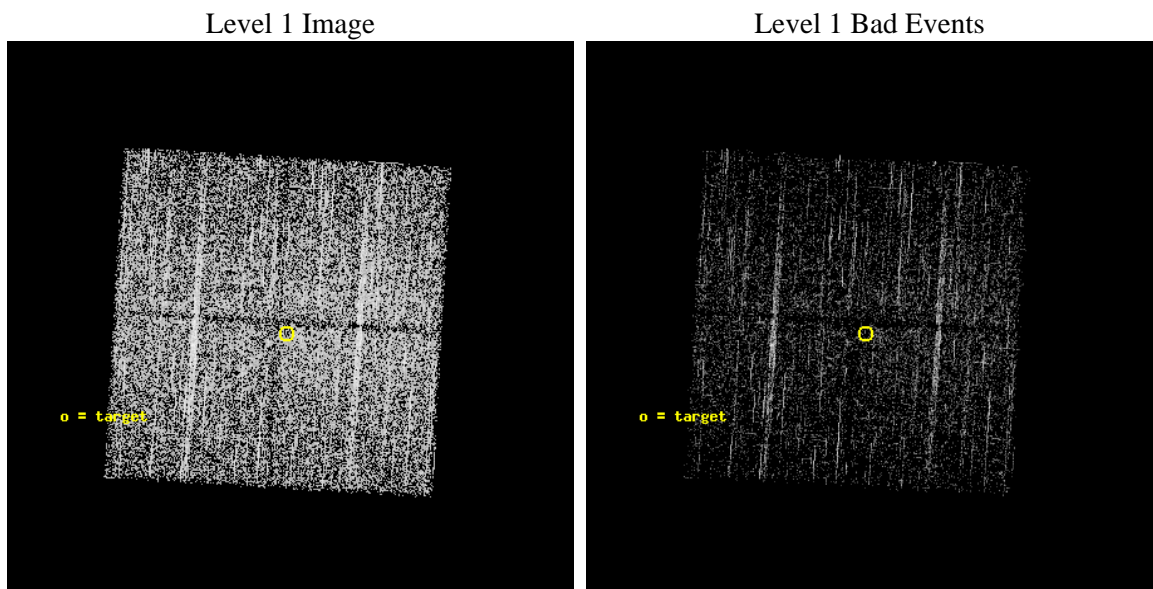
seq_num	400964	Sequence number
obs_id	10000	Observation id
title	Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS5-10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.258667	Observer's specified target RA [deg]
dec_targ	-30.095	Observer's specified target Dec [deg]
ra_nom	263.2553750448	Nominal RA [deg]
dec_nom	-30.087275703117	Nominal Dec [deg]
roll_nom	93.409470705029	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2142.1000164747	Sum of GTIs [s]
livetime	2114.1119027684	Livetime [s]
ontime0	2142.1000164747	Sum of GTIs [s]
ontime1	2142.1000164747	Sum of GTIs [s]
ontime2	2142.1000164747	Sum of GTIs [s]
ontime3	2142.1000164747	Sum of GTIs [s]
l2events	10144	Number of level 2 events



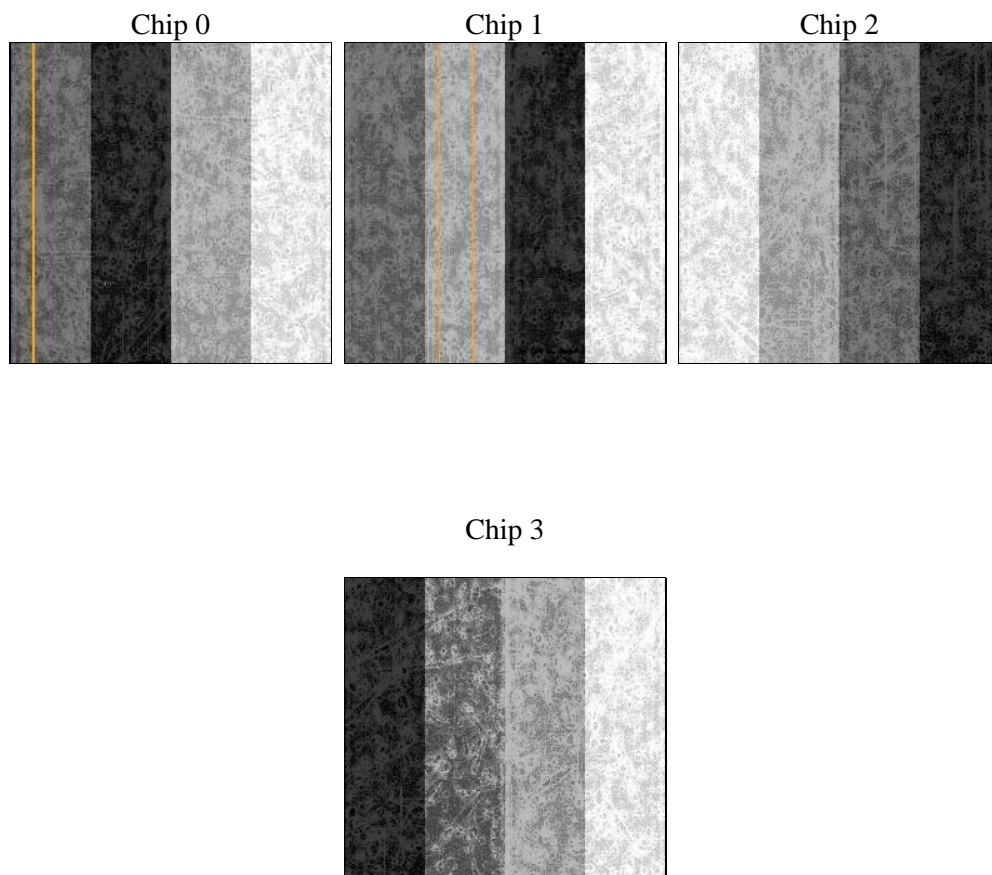
## 2 OBI

### 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	2142.1000164747	Sum of GTIs [s]
caldsver	4.4.9	&#160	ontime0	2142.1000164747	Sum of GTIs [s]
date	2012-06-01T05:45:02	Date and time of file creation	ontime1	2142.1000164747	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	2142.1000164747	Sum of GTIs [s]
			ontime3	2142.1000164747	Sum of GTIs [s]
			l1events	119223	Number of level 1 events

### 2.1.4 Events

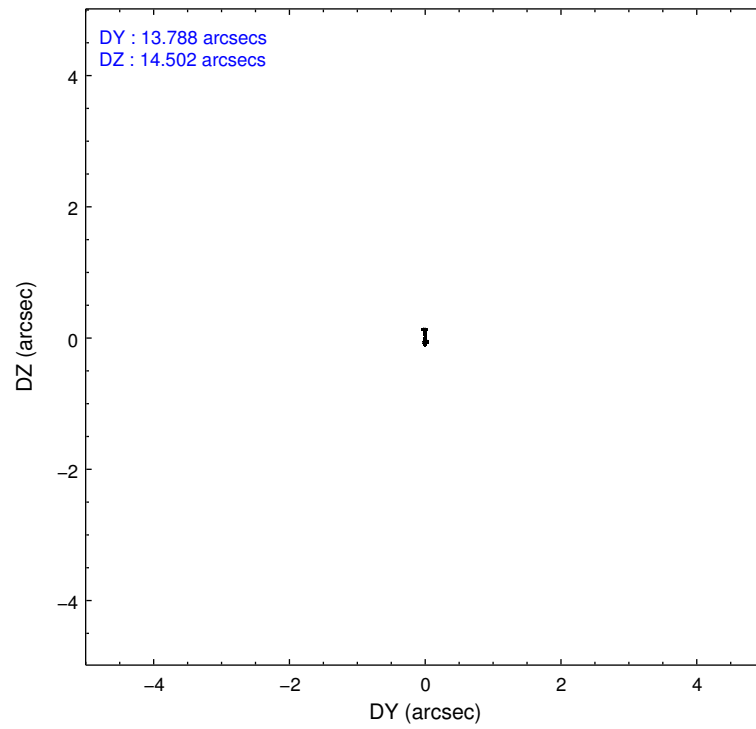
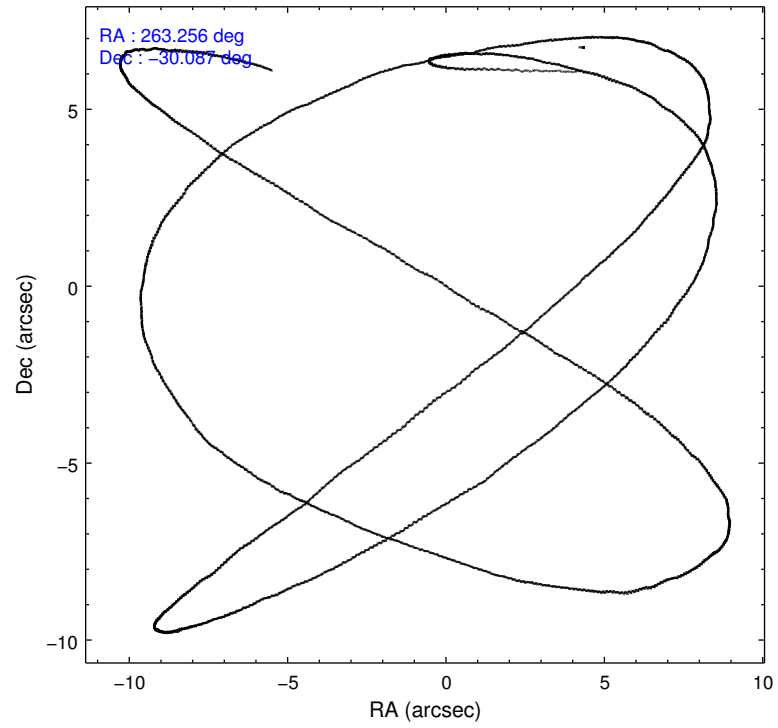
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	28498	28997	31156	30572
rejected events	25642	25938	28307	27576
rejected %	89%	89%	90%	90%

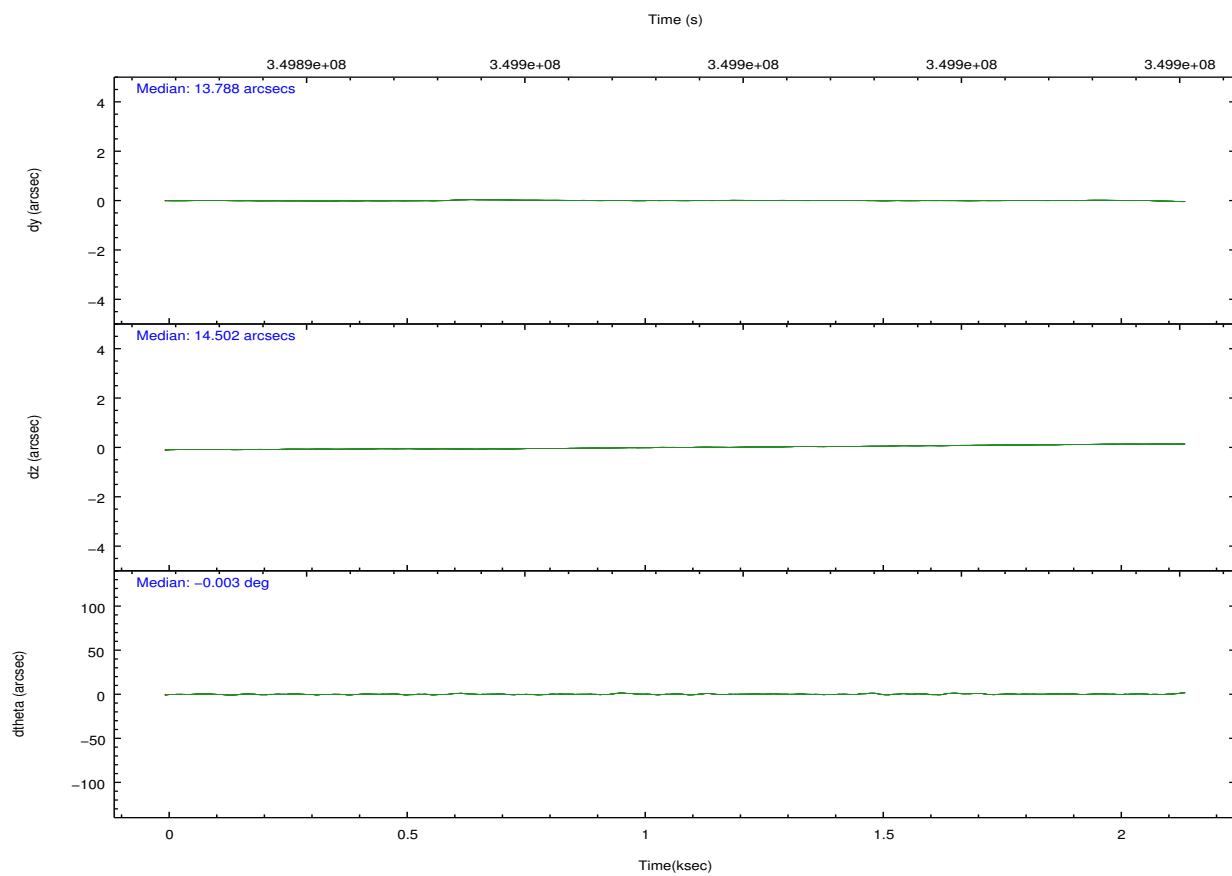
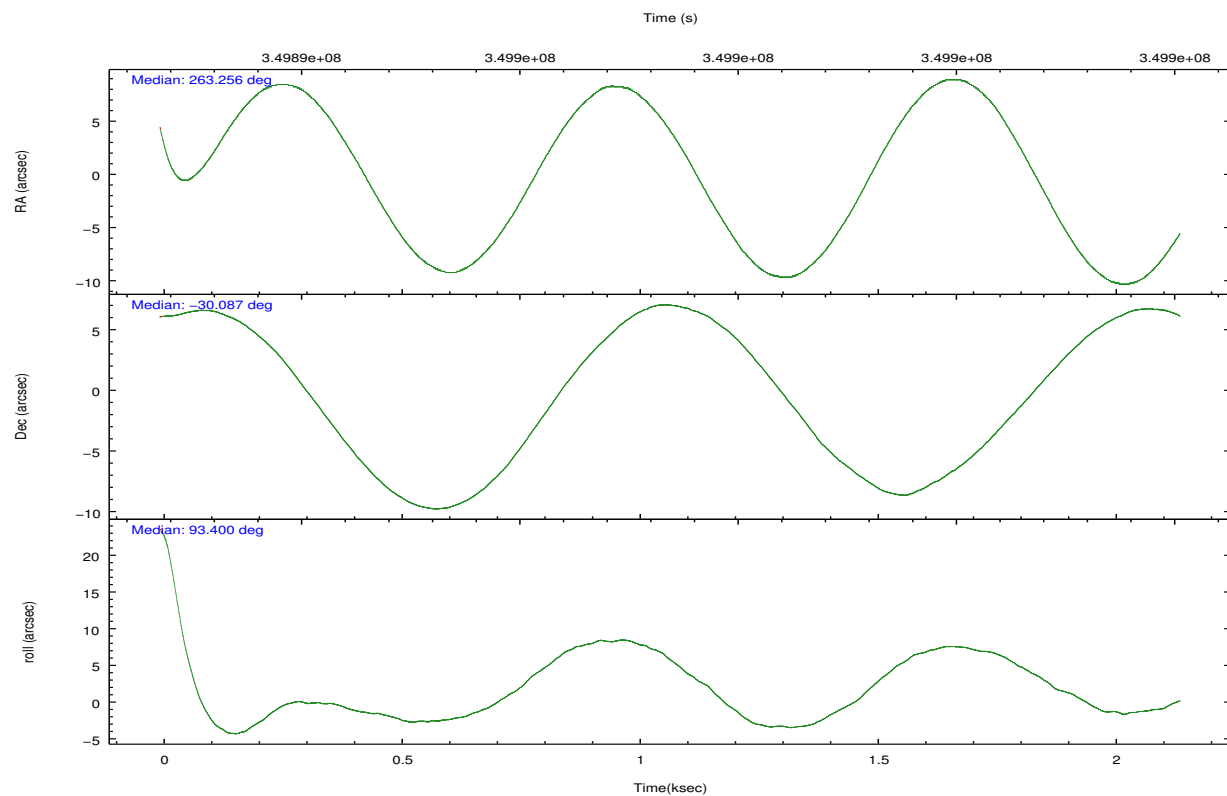
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1813	1745	1747	1980
	6%	6%	5%	6%
grade 1 events	20	16	22	27
	0%	0%	0%	0%
grade 2 events	838	987	790	775
	2%	3%	2%	2%
grade 3 events	352	369	342	340
	1%	1%	1%	1%
grade 4 events	337	365	356	356
	1%	1%	1%	1%
grade 5 events	1238	1321	1259	1463
	4%	4%	4%	4%
grade 6 events	684	769	613	671
	2%	2%	1%	2%
grade 7 events	23216	23425	26027	24960
	81%	80%	83%	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	263.272980	263.2553750448015	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.110330	-30.0872757031166	Alternating exposures requested	N	N
[deg] Pointing Roll	93.209476	93.40947070502894	[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)	349894405.184000	349893136.52068			
Observation start date	2009-02-01T16:52:19	2009-02-01T16:32:16			
[s] Observation end time (MET)	349896405.184000	349896539.52085			
Observation end date	2009-02-01T17:25:39	2009-02-01T17:28:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect





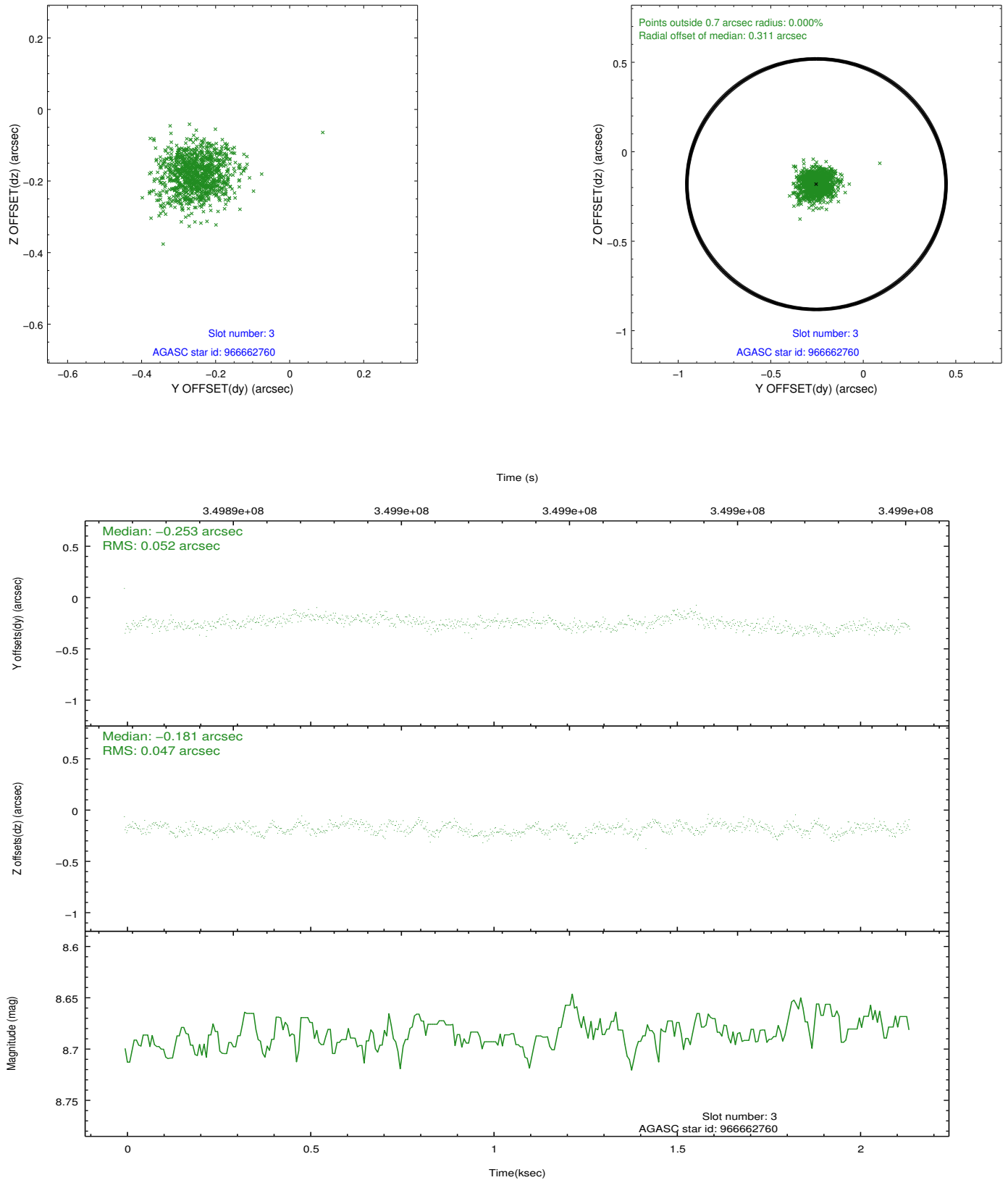
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.08	523	0.034	0.013	0.008	0.015	0.000000	0.000000	925.75	-838.07
1	FID	ACIS-I-5	7.08	523	-0.216	0.042	0.007	0.013	0.000000	0.000000	-1820.95	1057.88
2	FID	ACIS-I-6	7.08	523	0.091	0.016	0.008	0.014	0.000000	0.000000	388.00	1705.84
3	GUIDE	966662760	8.69	1044	-0.253	-0.181	0.074	0.122	262.815203	-30.091834	142.61	1420.19
4	GUIDE	966788496	8.63	1046	0.121	0.254	0.079	0.126	264.053541	-30.541810	-1694.52	-2327.37
5	GUIDE	966791064	7.79	1046	0.068	0.116	0.099	0.146	263.920275	-30.338943	-941.67	-1963.59
6	GUIDE	966794640	9.34	1045	-0.088	0.065	0.095	0.157	263.854004	-30.029028	185.17	-1825.71
7	GUIDE	966662752	8.24	1045	0.147	-0.247	0.081	0.130	262.898473	-30.245665	-423.37	1188.46

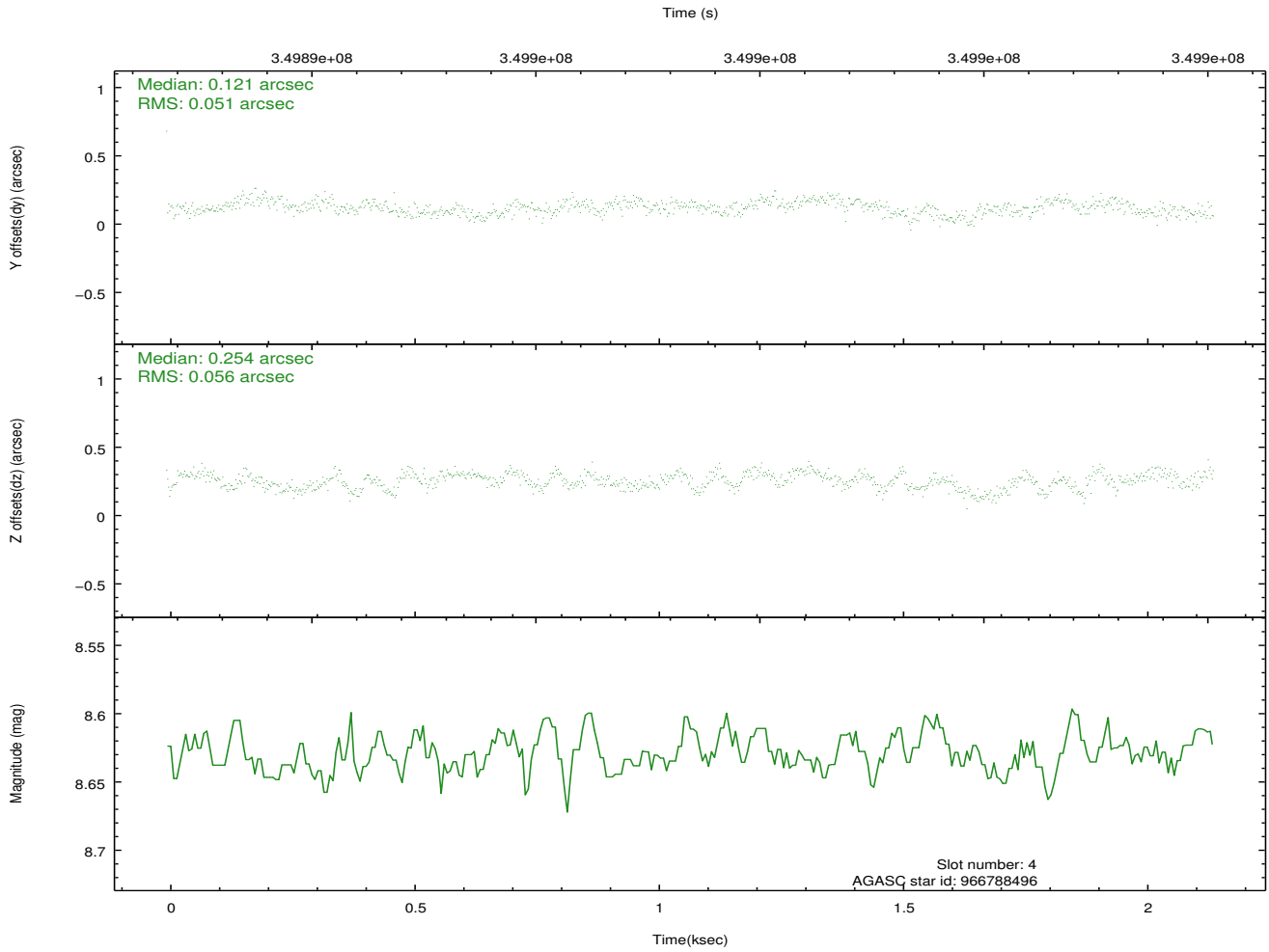
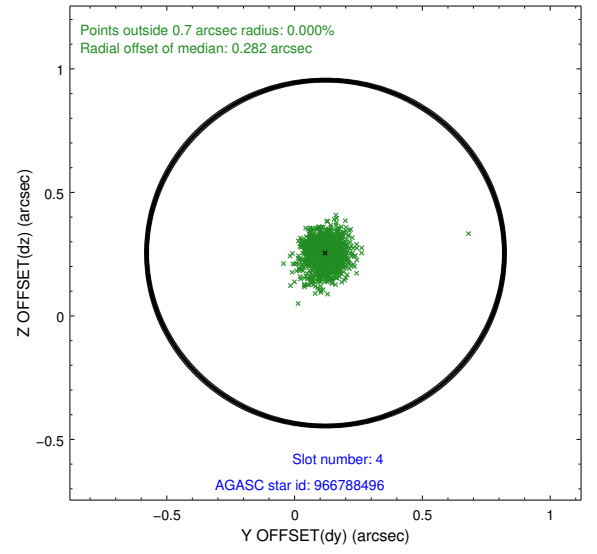
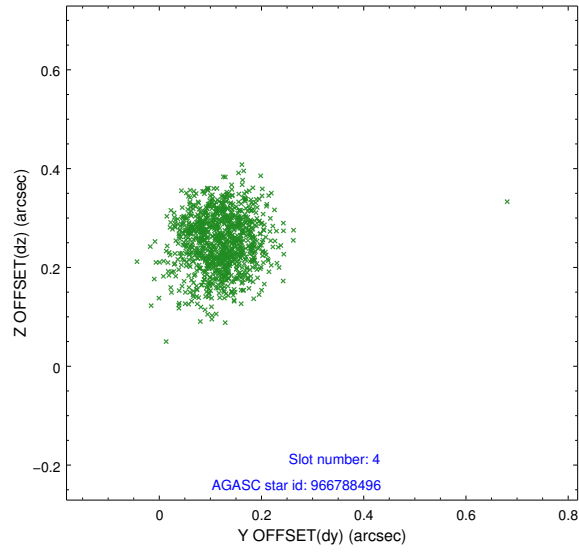


## 2.4 Star Slots

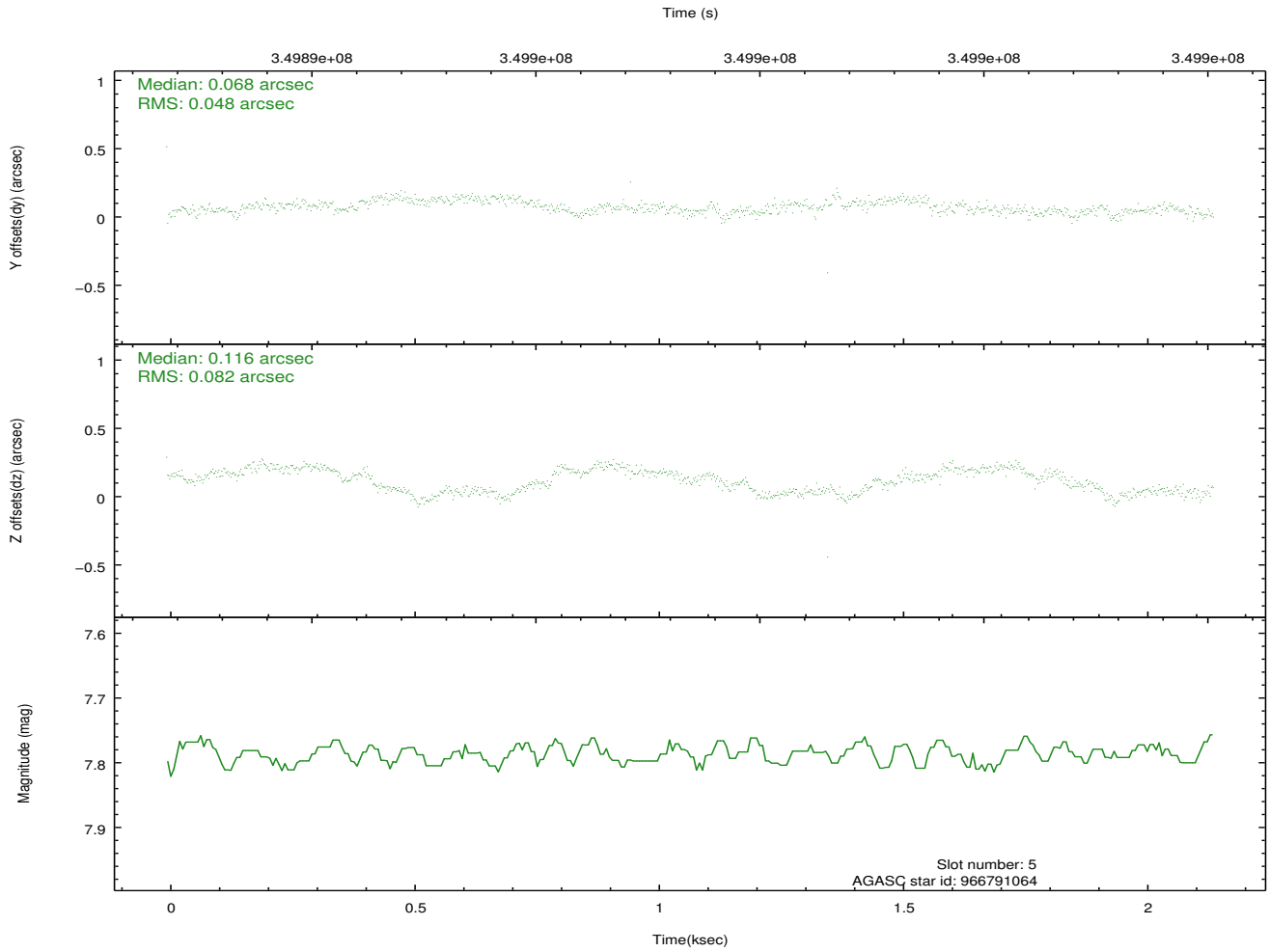
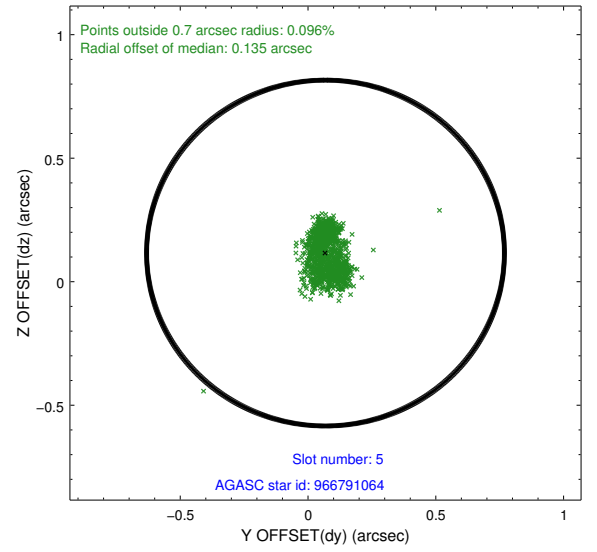
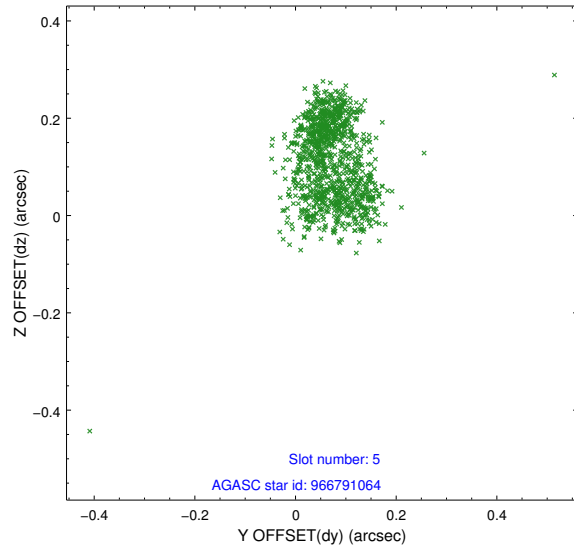
### 2.4.1 Slot 3



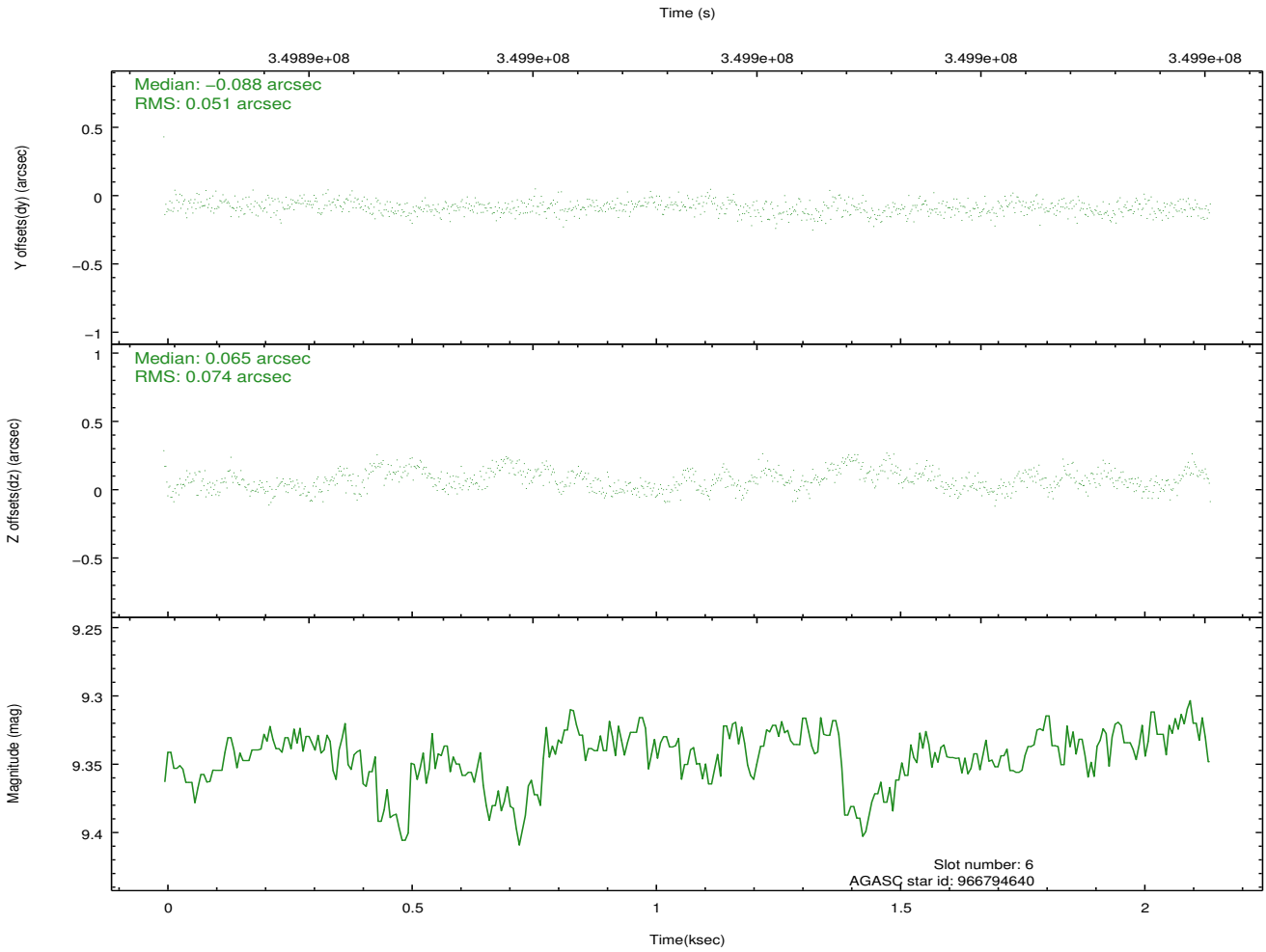
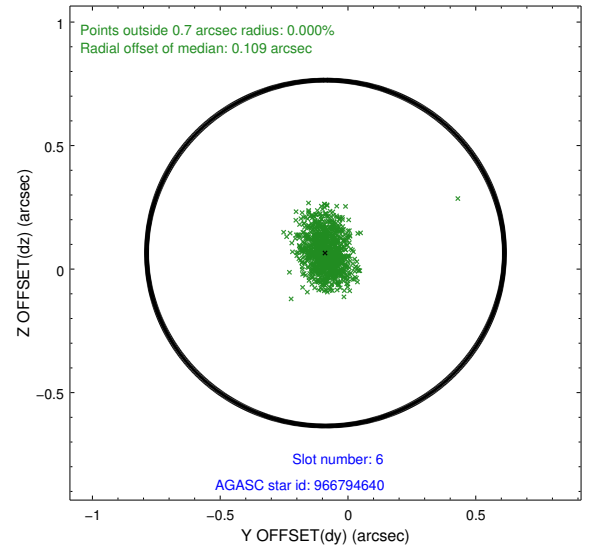
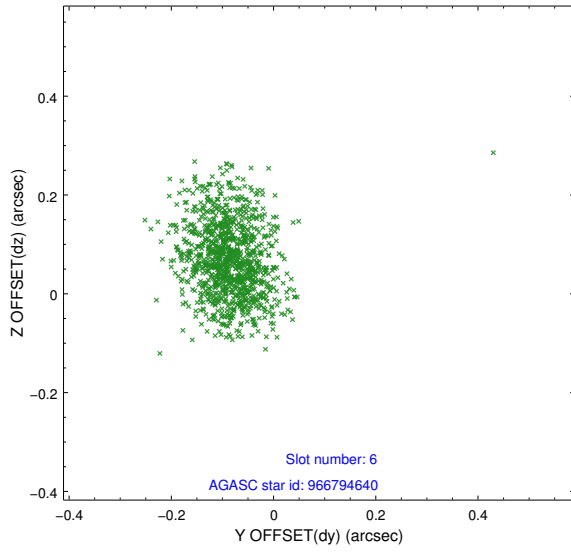
## 2.4.2 Slot 4



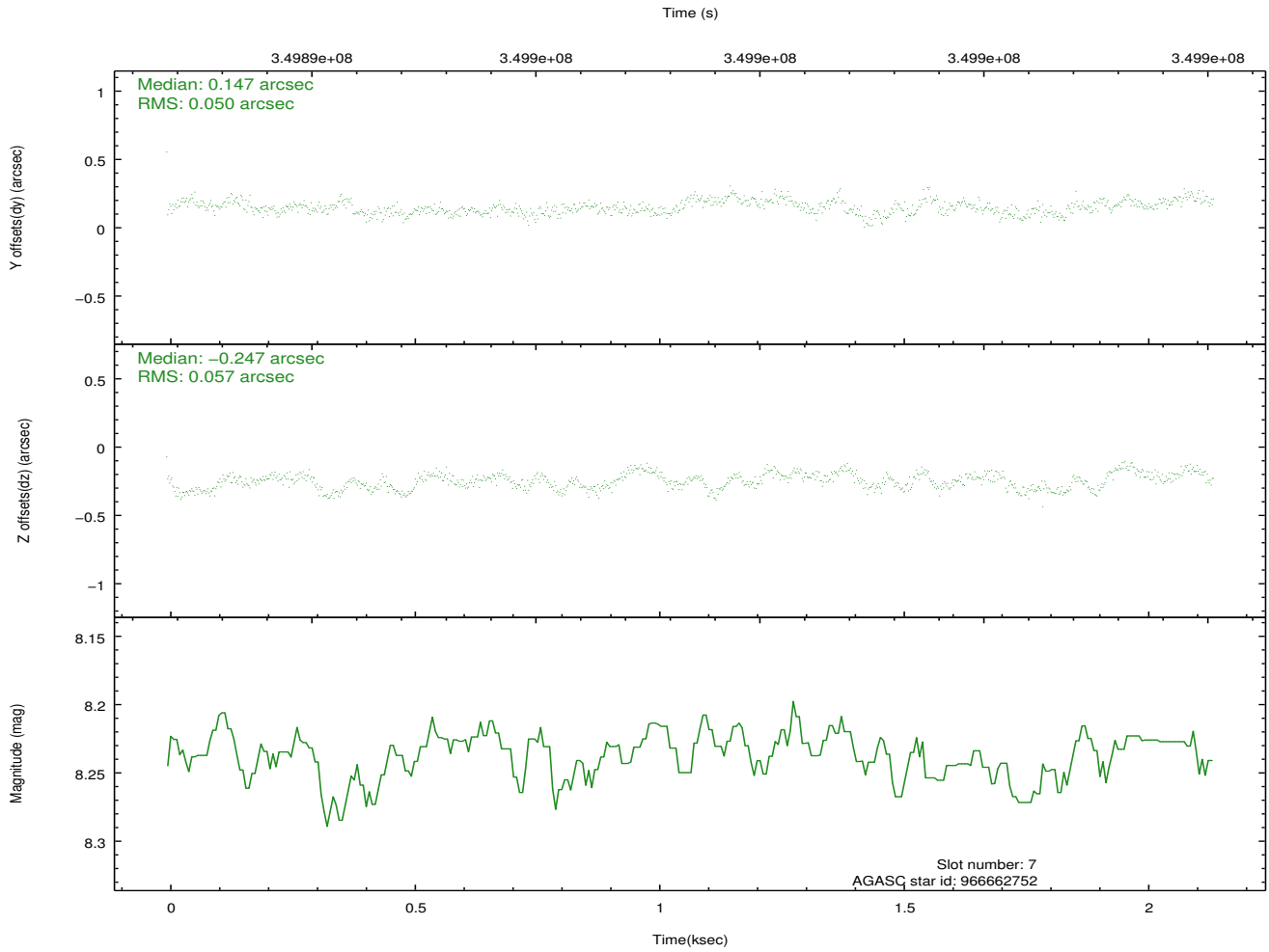
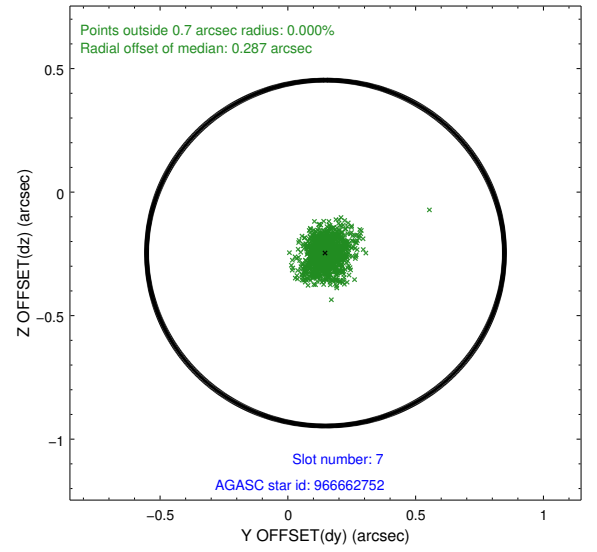
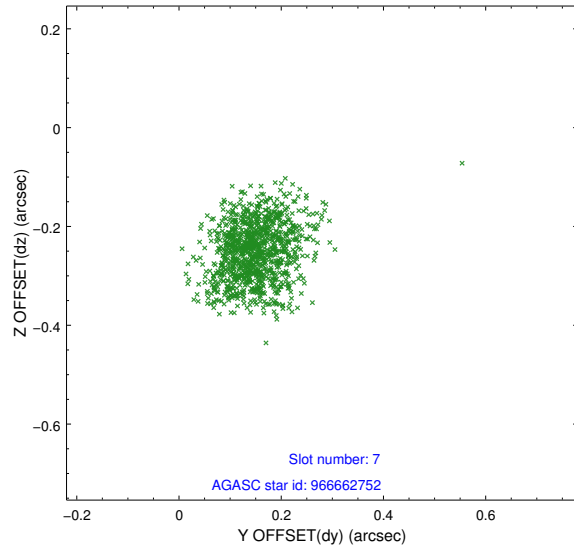
### 2.4.3 Slot 5



## 2.4.4 Slot 6

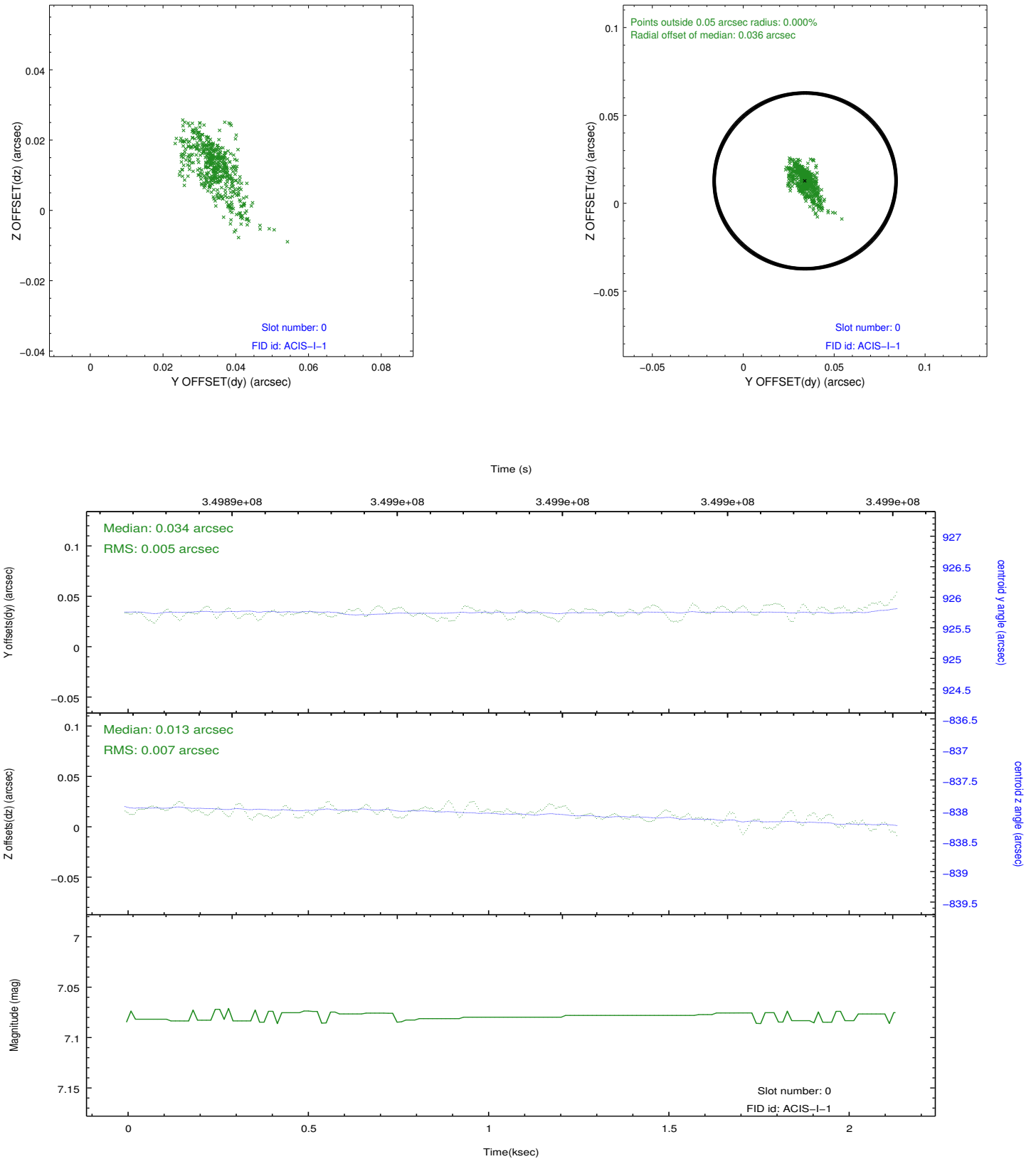


## 2.4.5 Slot 7

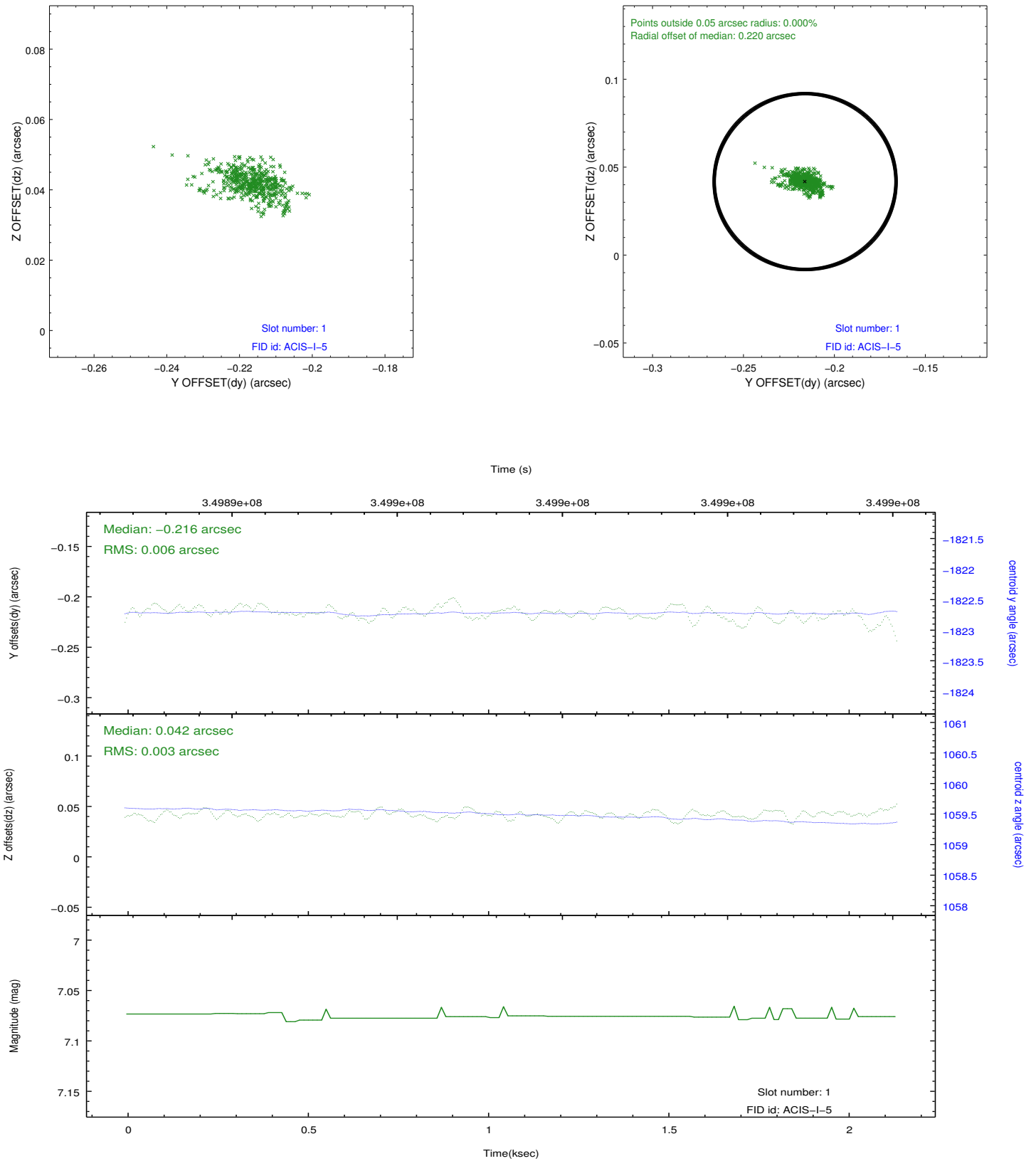


## 2.5 FID Slots

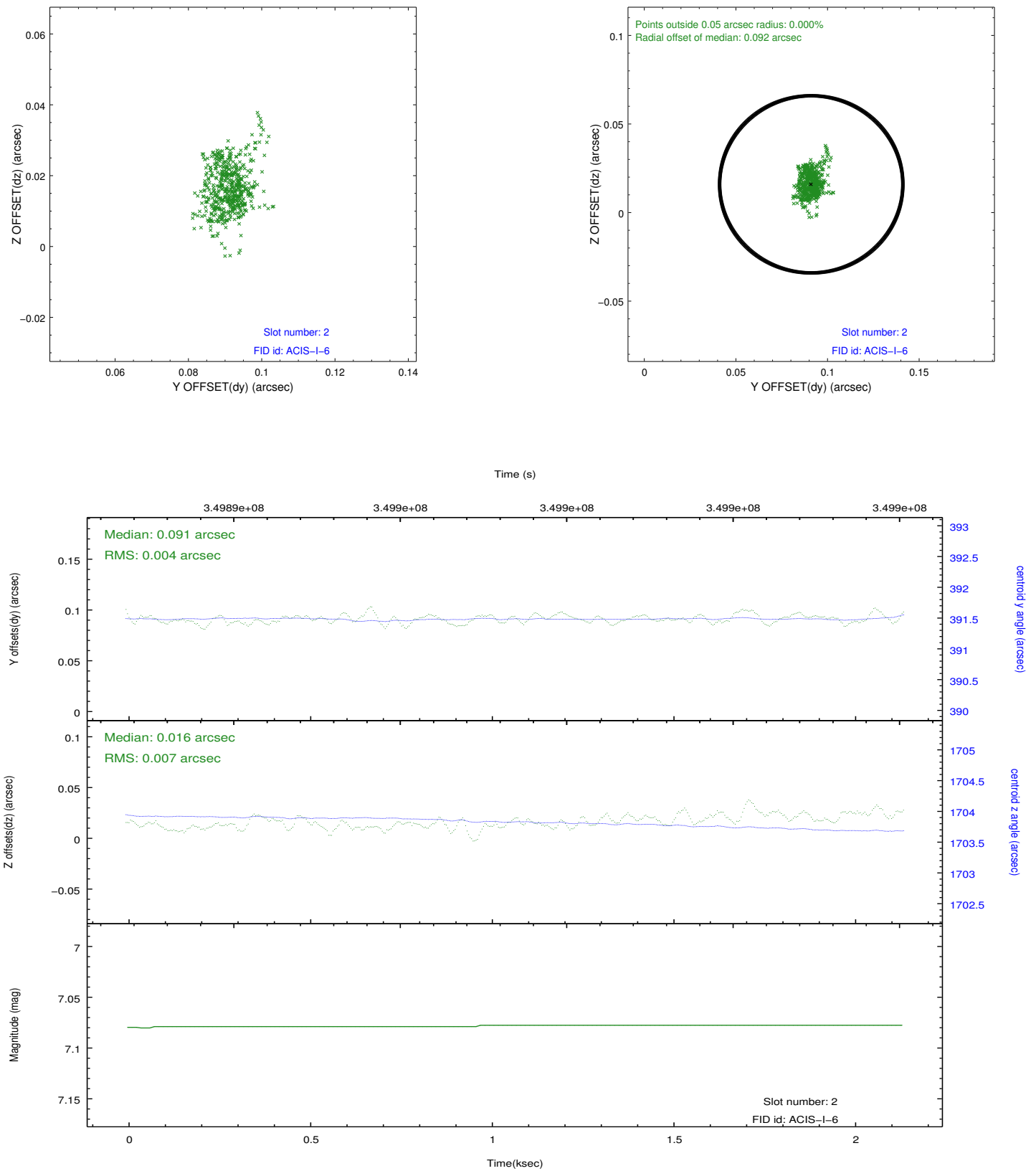
### 2.5.1 Slot 0



## 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)	2012.06.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.14210001

### A.2 Comments

Joint Proposal: NOAO