

# V&V Reference Report

## L2 ASCDS Version : 8.4.4

Observation 10024 - L2 Version 2  
Chandra X-Ray Center

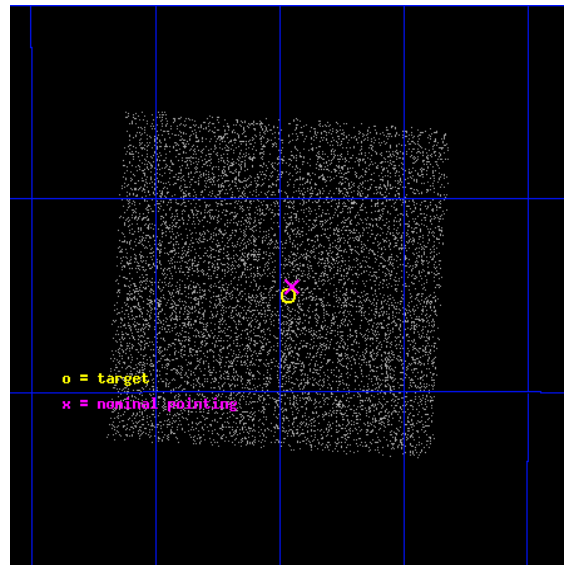
L2 Processing Date : Jun 1 2012

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# 1 Front

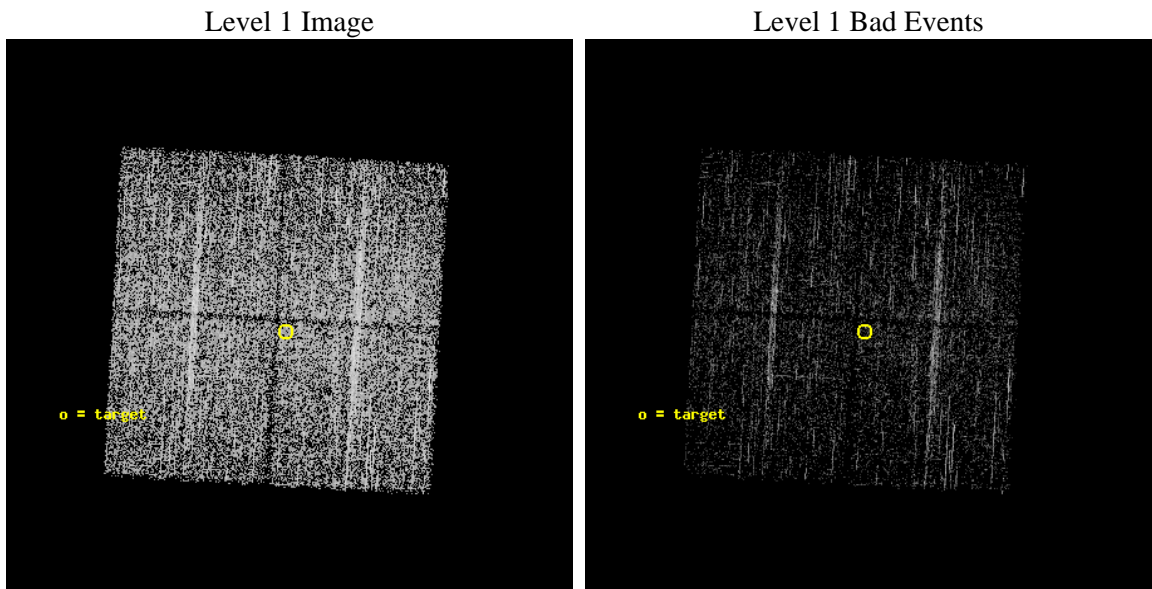
seq_num	400988	Sequence number
obs_id	10024	Observation id
title	Completing the Galactic Bulge Survey: categorising the plethora of faint X-ray sources in the Galactic Bulge	Proposal title
observer	dr Peter Jonker	Principal investigator
object	GBS9-10	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	262.991208	Observer's specified target RA [deg]
dec_targ	-30.083917	Observer's specified target Dec [deg]
ra_nom	262.98794525756	Nominal RA [deg]
dec_nom	-30.076156332837	Nominal Dec [deg]
roll_nom	93.221982888896	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2188.5590565205	Sum of GTIs [s]
livetime	2159.9639212533	Livetime [s]
ontime0	2191.7000168562	Sum of GTIs [s]
ontime1	2188.559086442	Sum of GTIs [s]
ontime2	2191.7000168562	Sum of GTIs [s]
ontime3	2188.5590565205	Sum of GTIs [s]
l2events	10566	Number of level 2 events



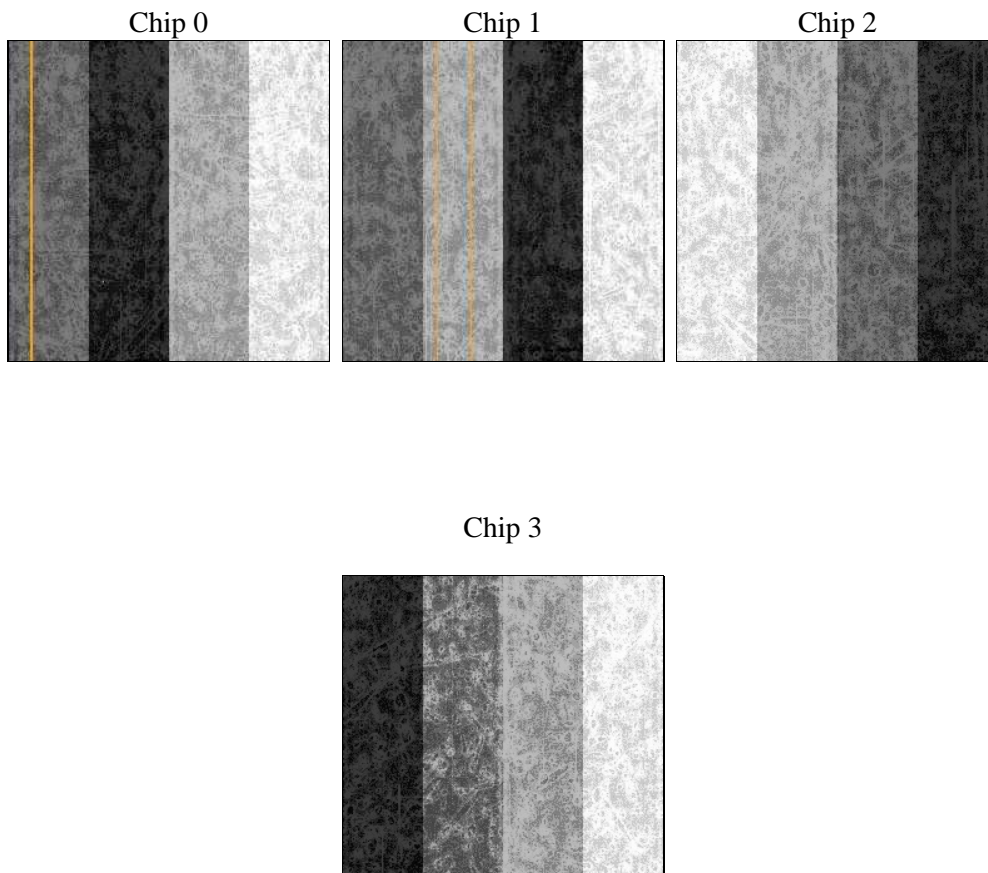
## 2 OBI

### 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	2188.5590565205	Sum of GTIs [s]
caldbver	4.4.9	&#160	ontime0	2191.7000168562	Sum of GTIs [s]
date	2012-06-01T05:46:20	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	2188.5590565205	Sum of GTIs [s]
			l1events	102357	Number of level 1 events

### 2.1.4 Events

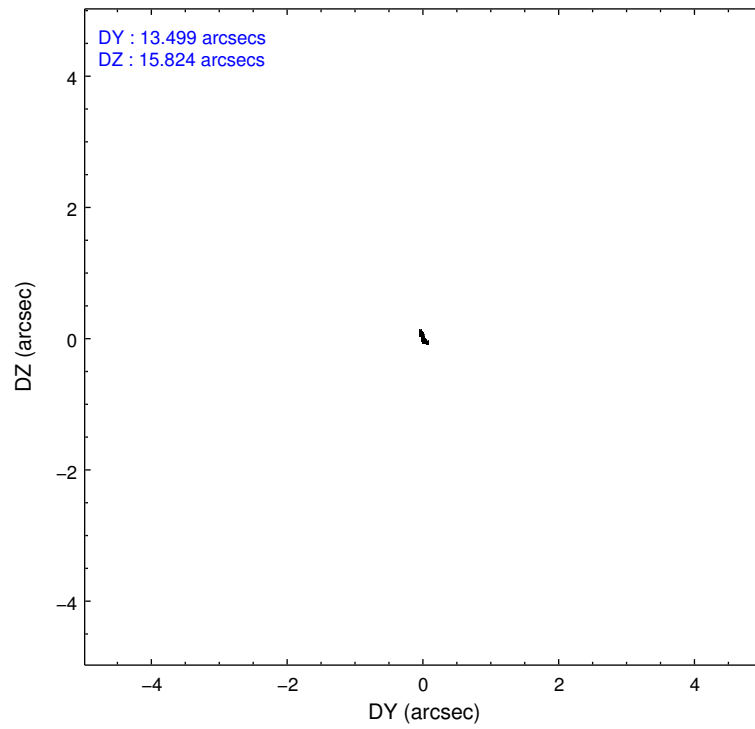
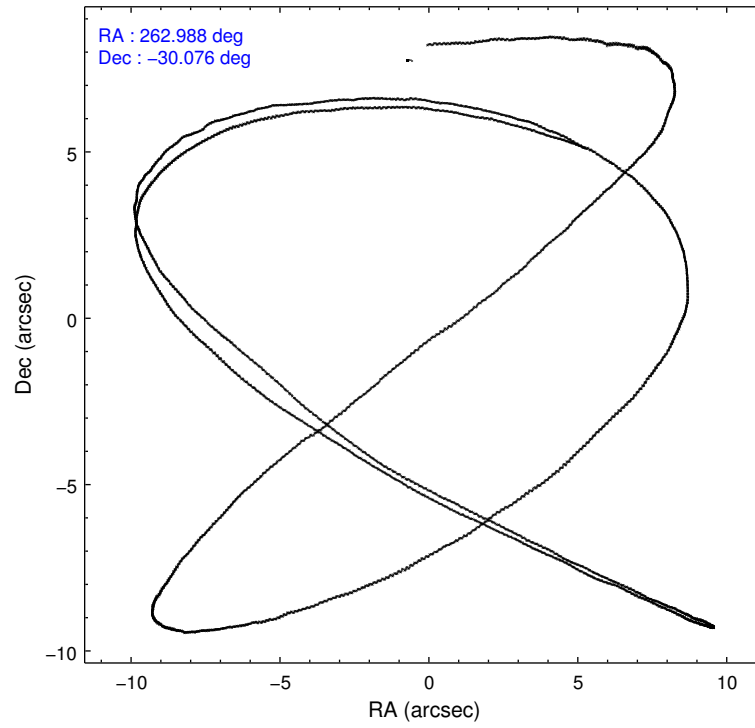
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	25256	24089	26676	26336
rejected events	22170	20857	23726	23359
rejected %	87%	86%	88%	88%

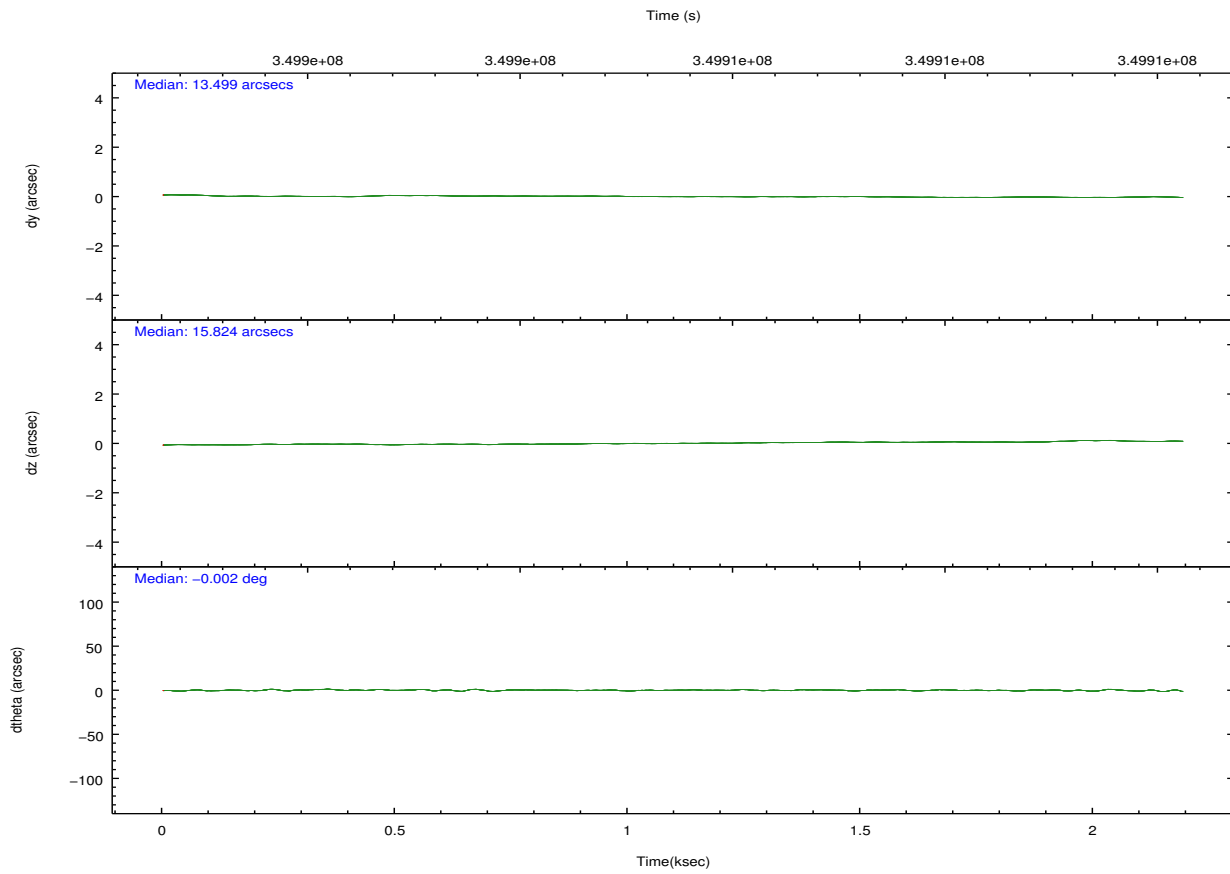
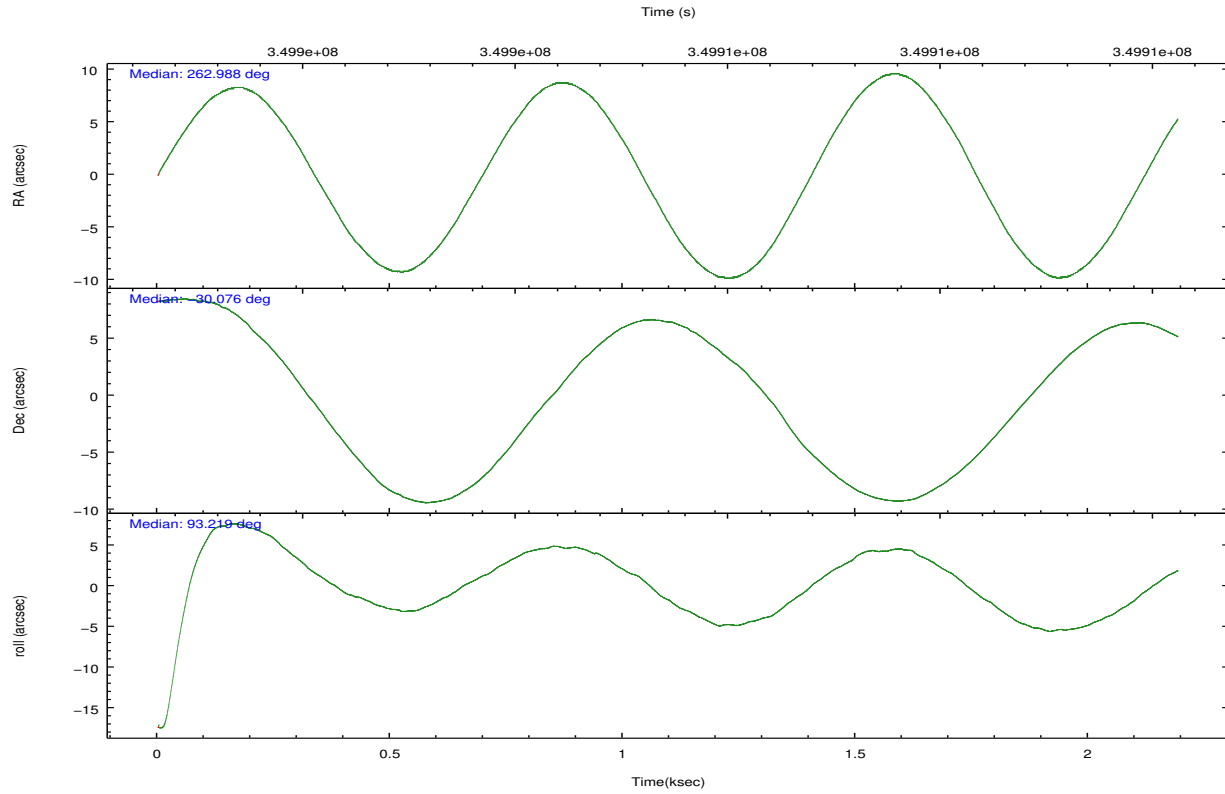
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1615	1526	1663	1609
	6%	6%	6%	6%
grade 1 events	14	21	25	11
	0%	0%	0%	0%
grade 2 events	766	820	703	682
	3%	3%	2%	2%
grade 3 events	283	324	252	261
	1%	1%	0%	0%
grade 4 events	314	315	289	324
	1%	1%	1%	1%
grade 5 events	1092	1151	1064	1220
	4%	4%	3%	4%
grade 6 events	559	717	496	535
	2%	2%	1%	2%
grade 7 events	20613	19215	22184	21694
	81%	79%	83%	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	263.005461	262.9879452575593	Subarray requested	NONE	NONE
[deg] Pointing Dec	-30.099286	-30.07615633283652	Alternating exposures requested	N	N
[deg] Pointing Roll	93.022217	93.22198288889633	[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)	349904450.184000	349904071.73372			
Observation start date	2009-02-01T19:39:44	2009-02-01T19:34:31			
[s] Observation end time (MET)	349906450.184000	349906584.52135			
Observation end date	2009-02-01T20:13:04	2009-02-01T20:16:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect



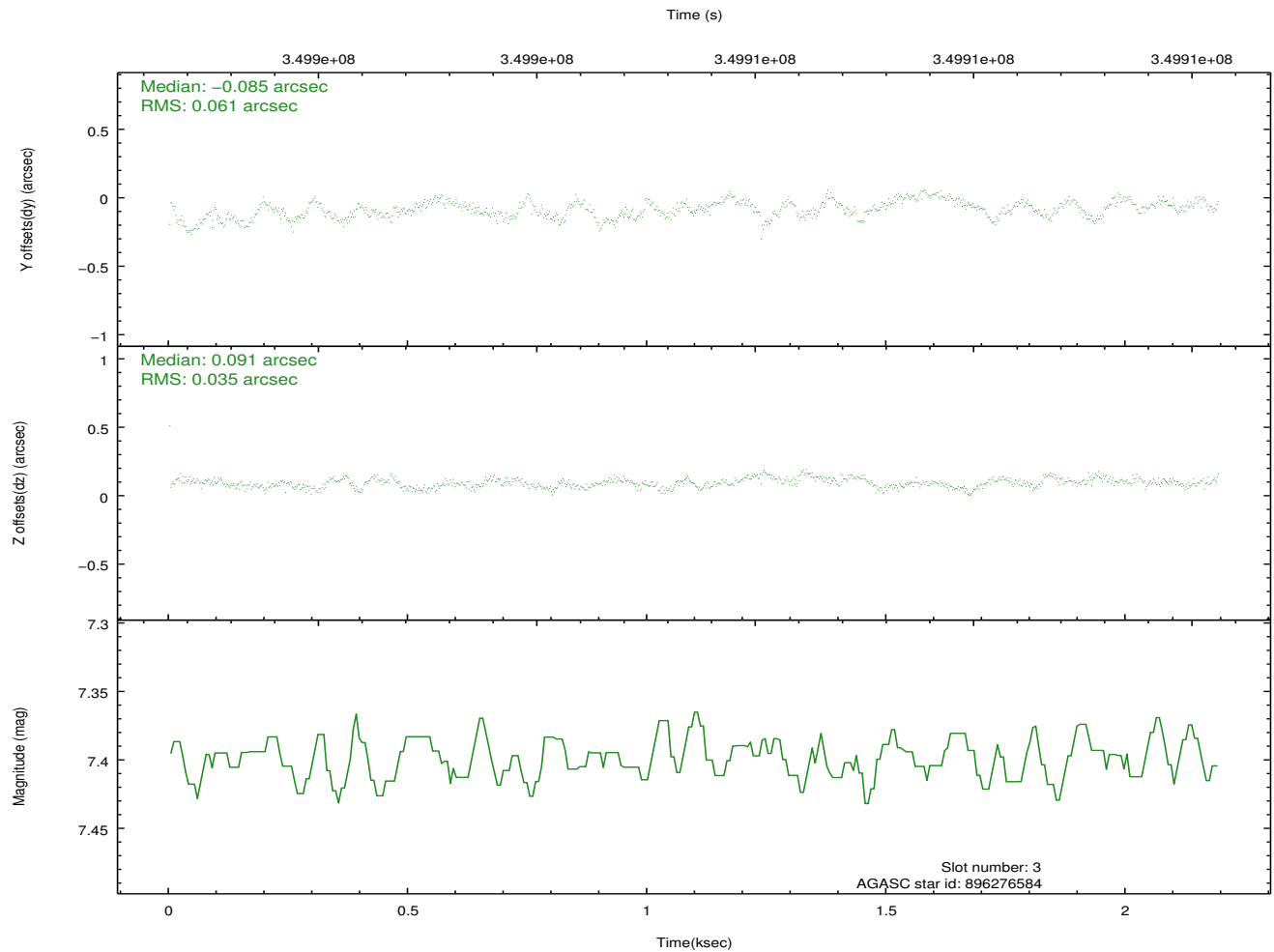
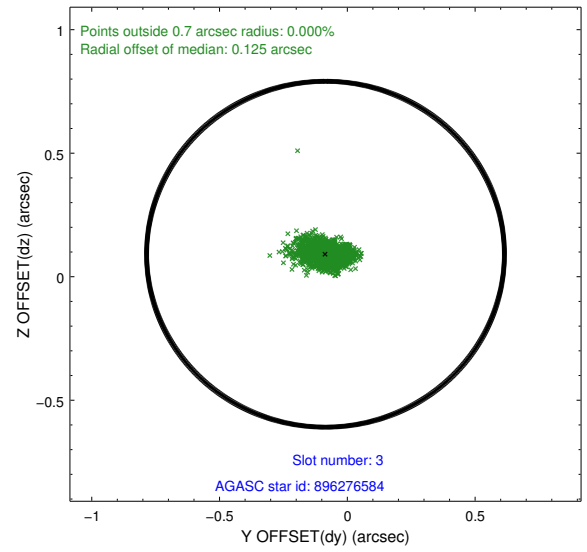
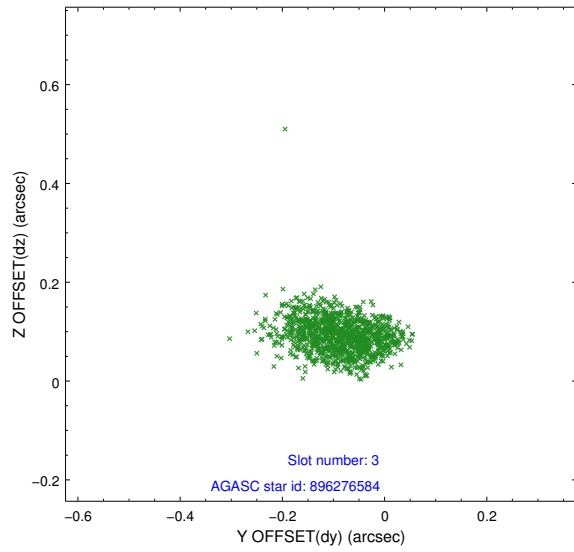


### Slot Statistics

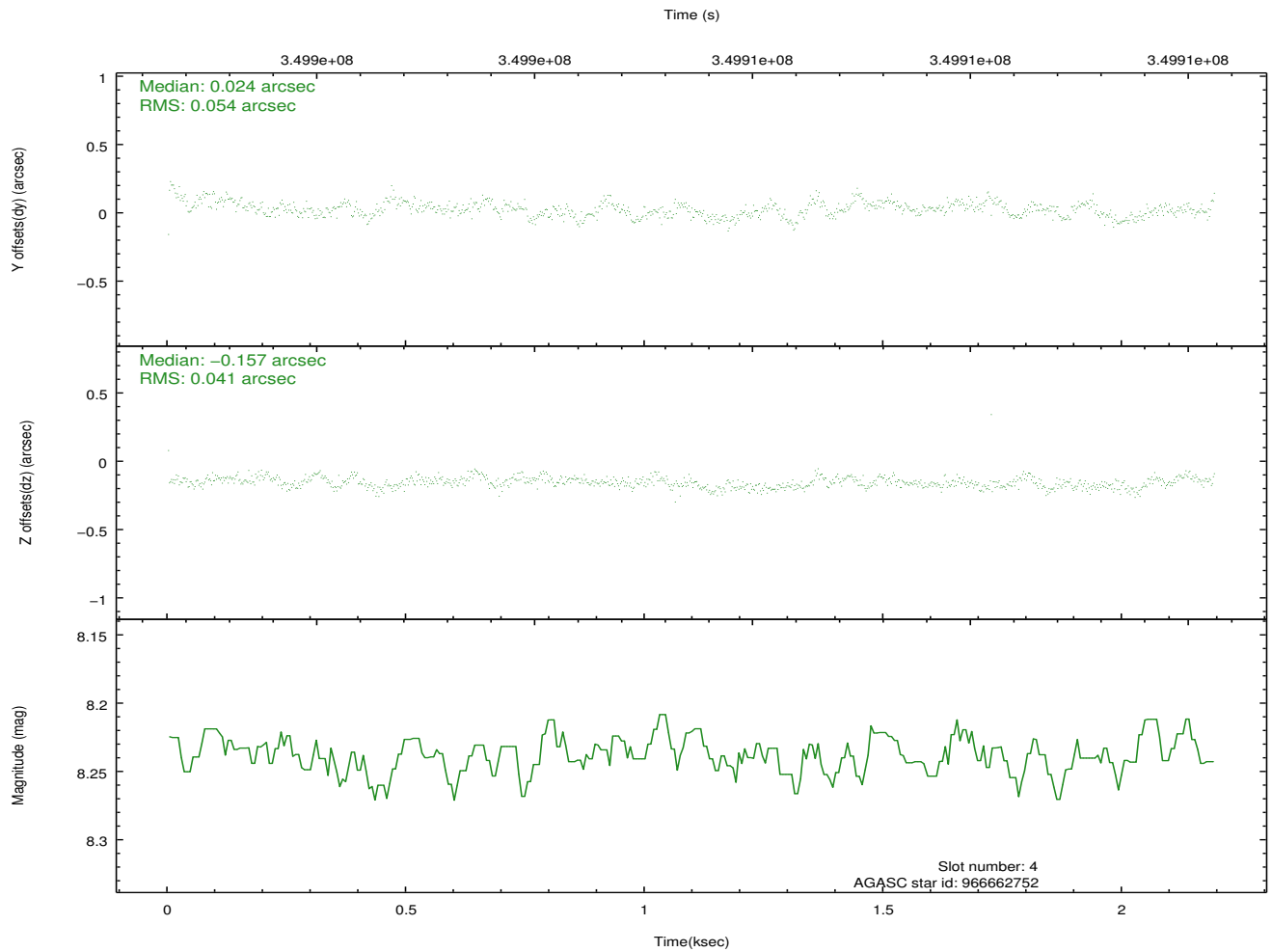
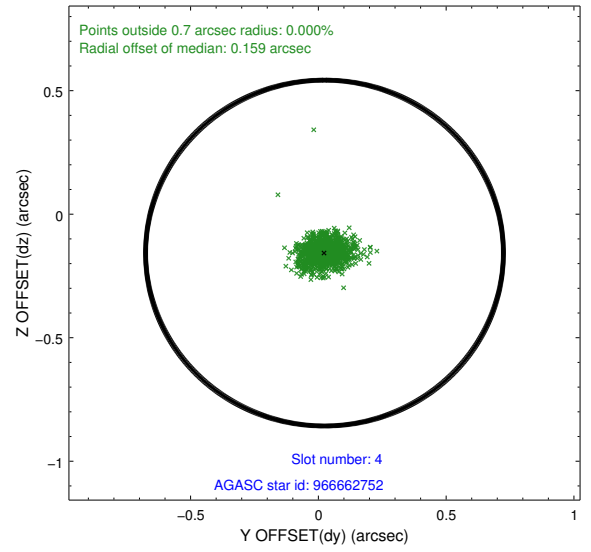
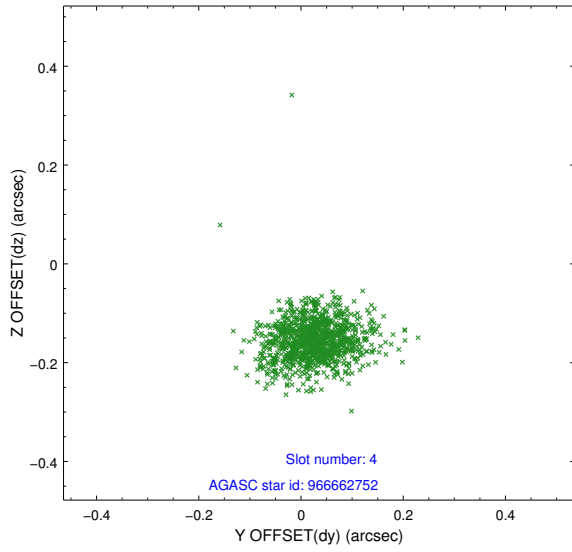
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.06	535	-0.004	-0.055	0.008	0.015	0.000000	0.000000	925.99	-839.51
1	FID	ACIS-I-4	6.99	535	0.161	0.064	0.008	0.013	0.000000	0.000000	2147.85	1058.92
2	FID	ACIS-I-5	7.06	535	-0.255	0.062	0.007	0.013	0.000000	0.000000	-1818.44	1060.15
3	GUIDE	896276584	7.40	1070	-0.085	0.091	0.075	0.120	263.264332	-29.650845	1568.05	-893.59
4	GUIDE	966662752	8.24	1069	0.024	-0.157	0.069	0.115	262.898473	-30.245665	-507.82	359.14
5	GUIDE	966787912	8.21	1070	0.152	0.157	0.066	0.104	263.385116	-30.640247	-2009.45	-1071.07
6	GUIDE	966787992	7.73	1070	0.058	0.081	0.062	0.100	263.507229	-30.411177	-1209.02	-1497.18
7	GUIDE	896275008	9.02	1063	-0.152	-0.170	0.096	0.147	262.213219	-29.592649	1941.79	2379.58

## 2.4 Star Slots

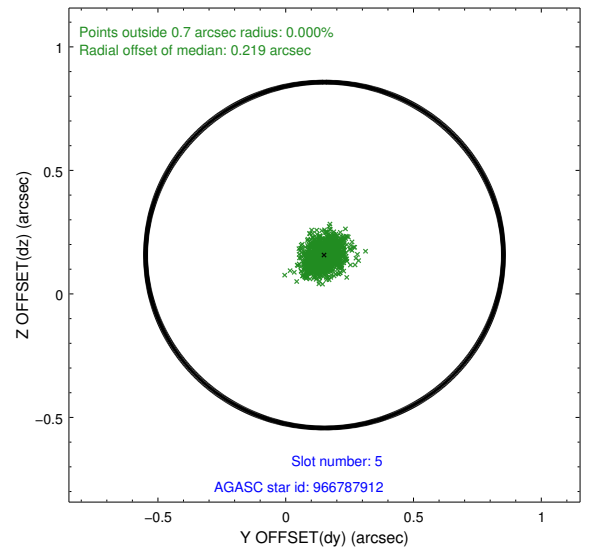
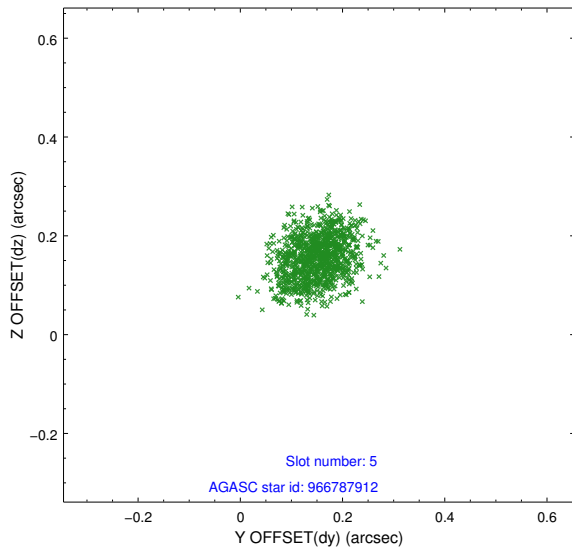
### 2.4.1 Slot 3



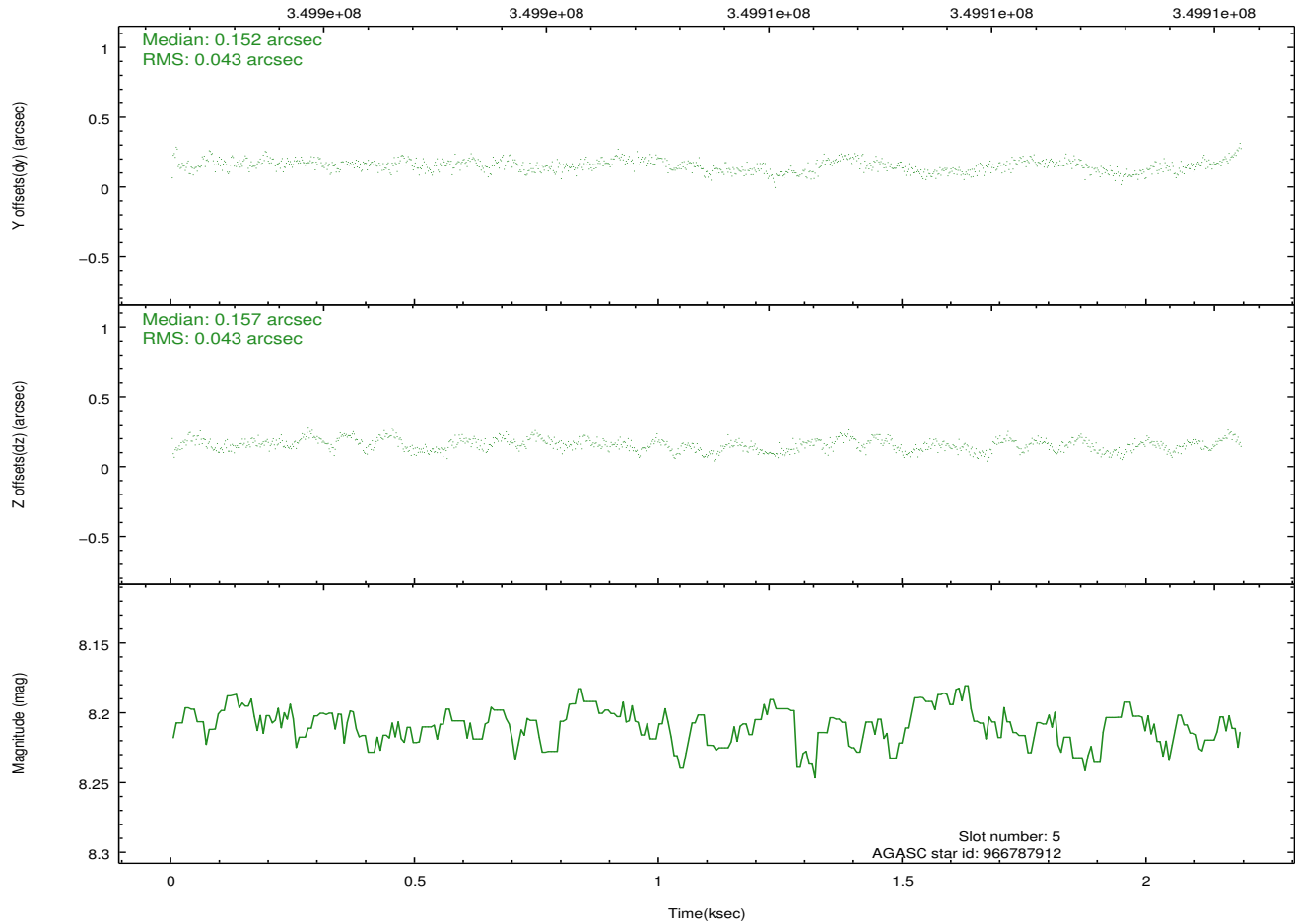
## 2.4.2 Slot 4



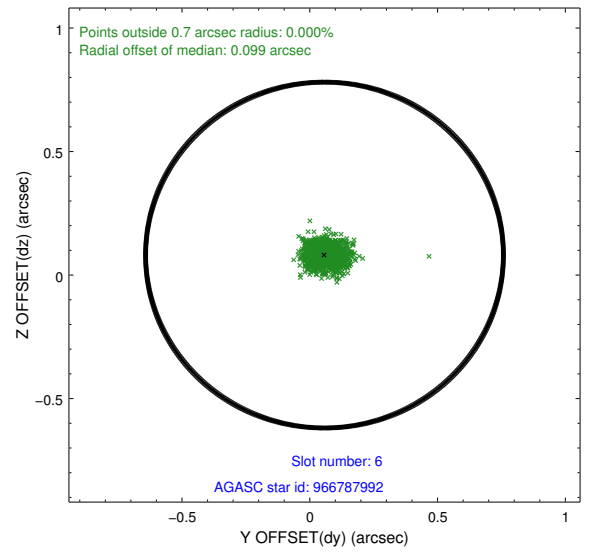
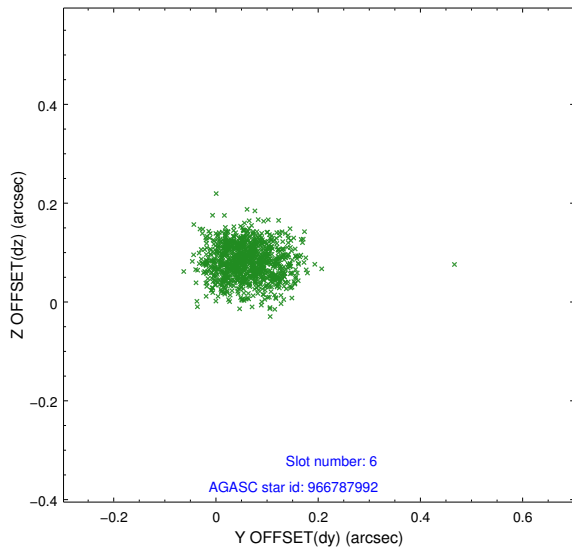
### 2.4.3 Slot 5



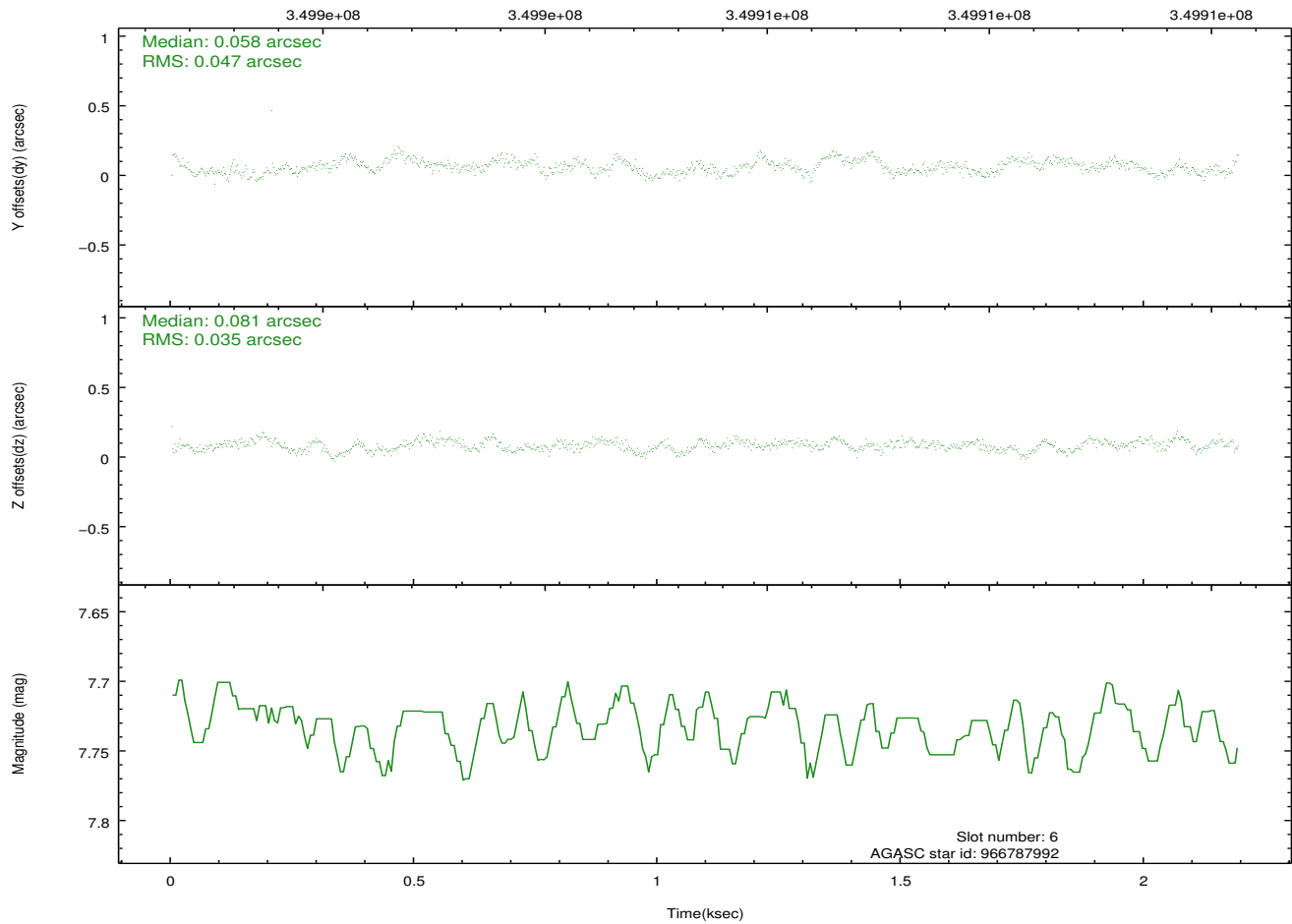
Time (s)



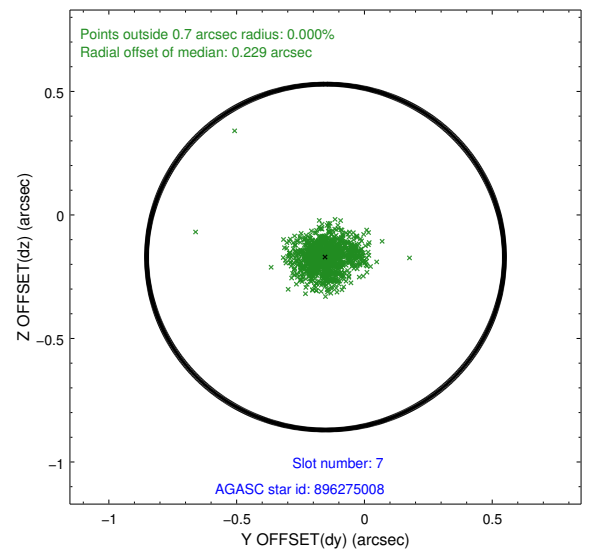
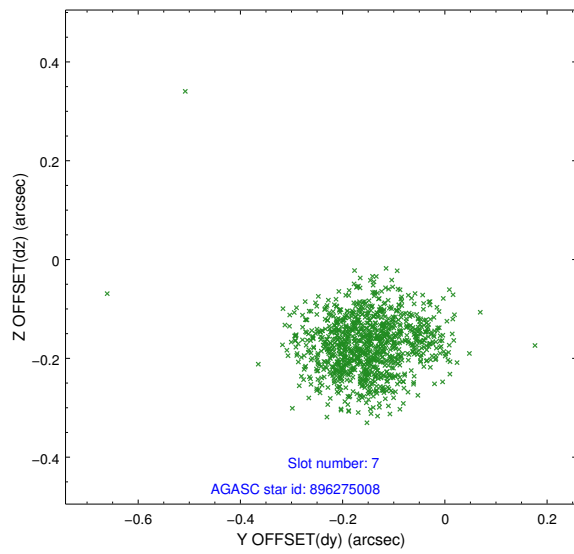
## 2.4.4 Slot 6



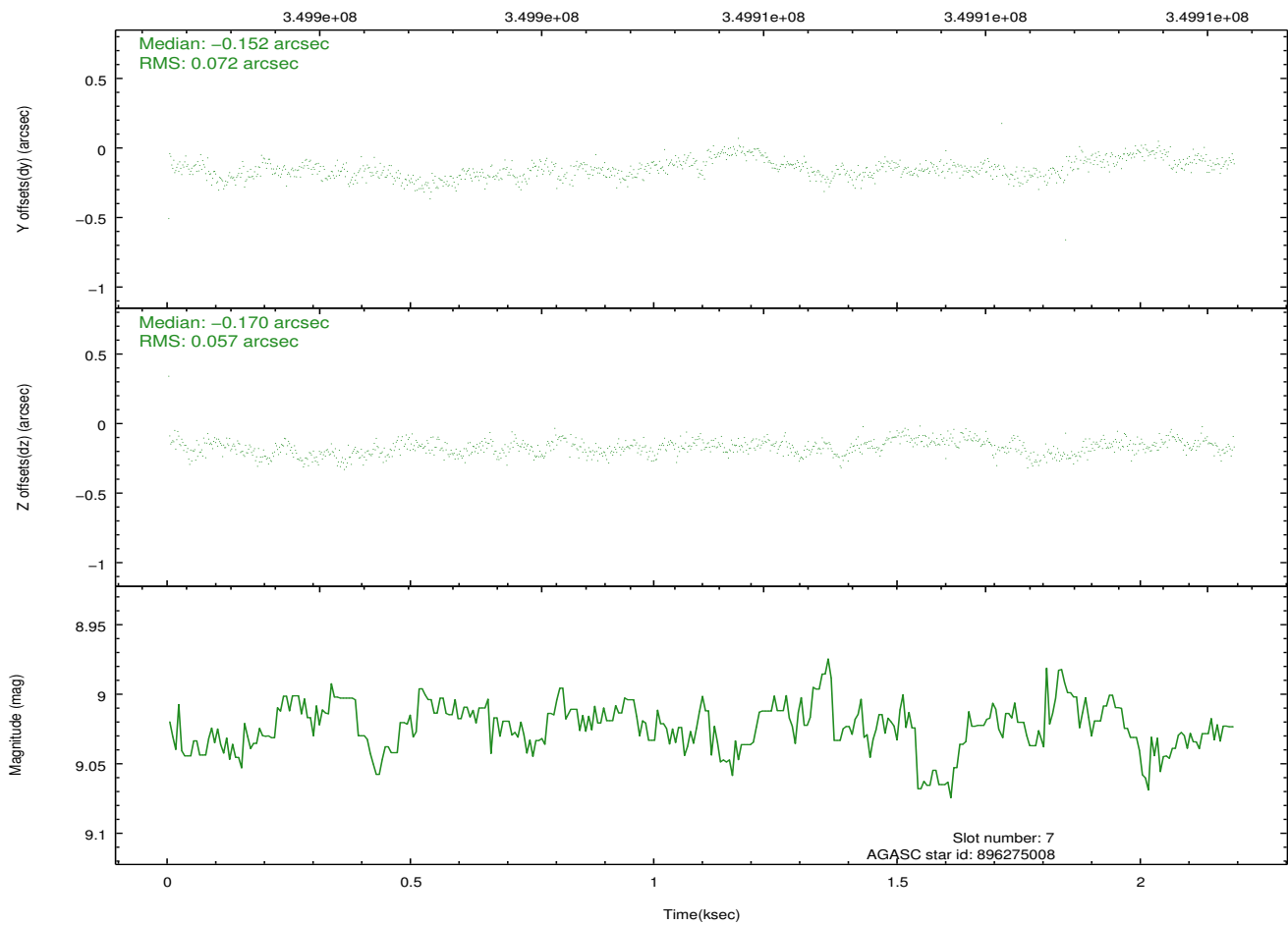
Time (s)



## 2.4.5 Slot 7

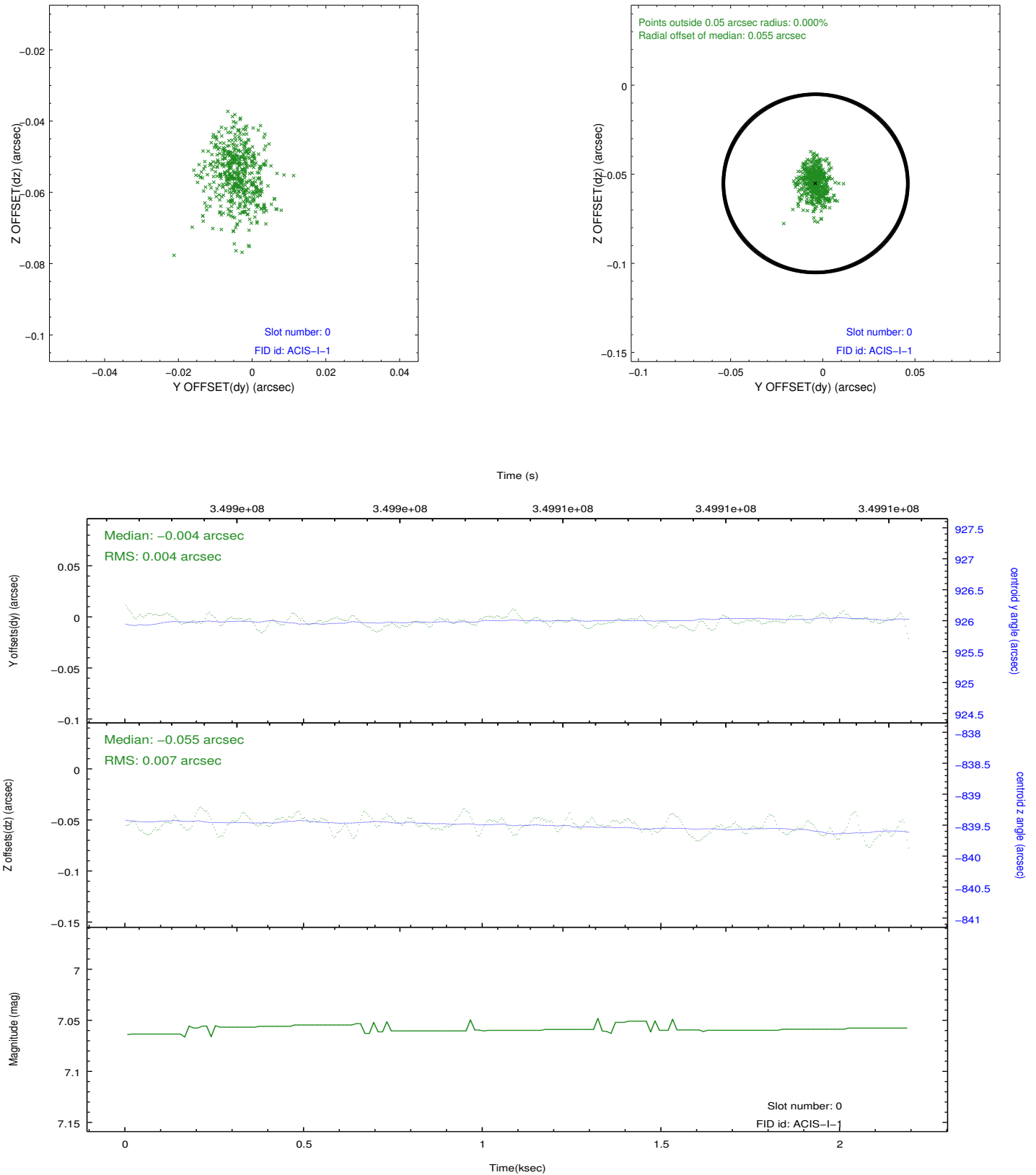


Time (s)

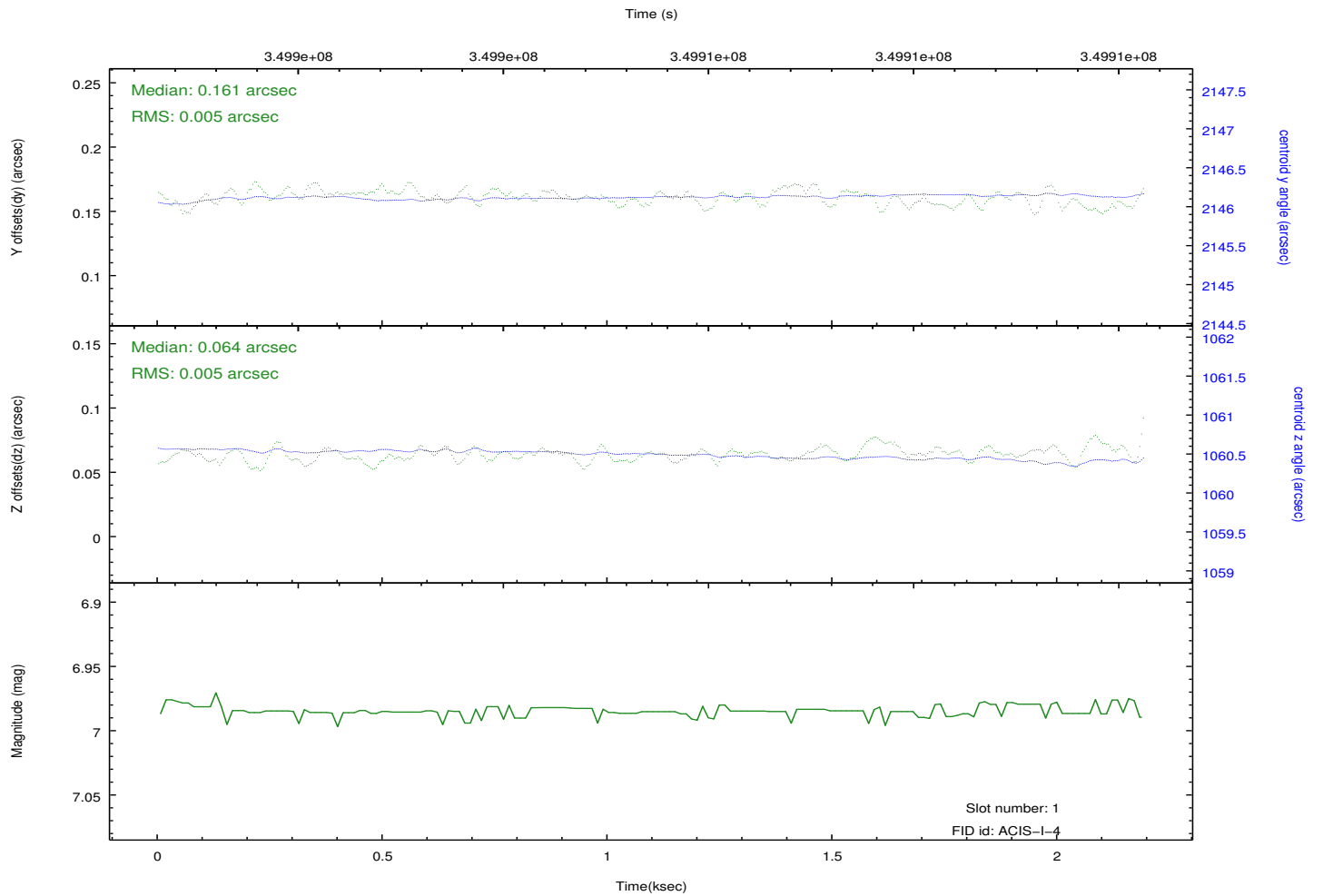
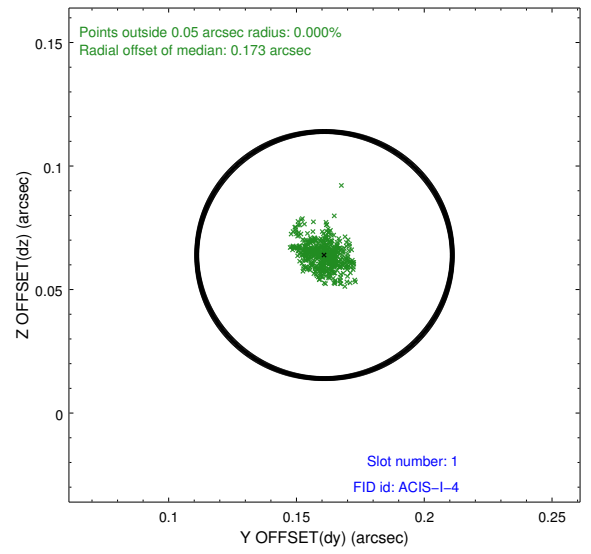
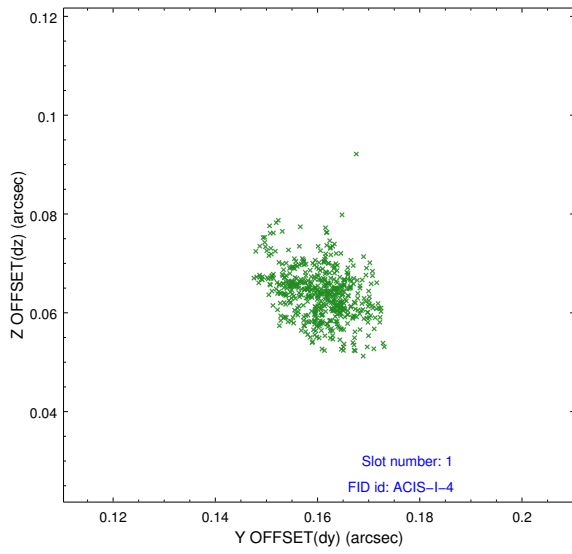


## 2.5 FID Slots

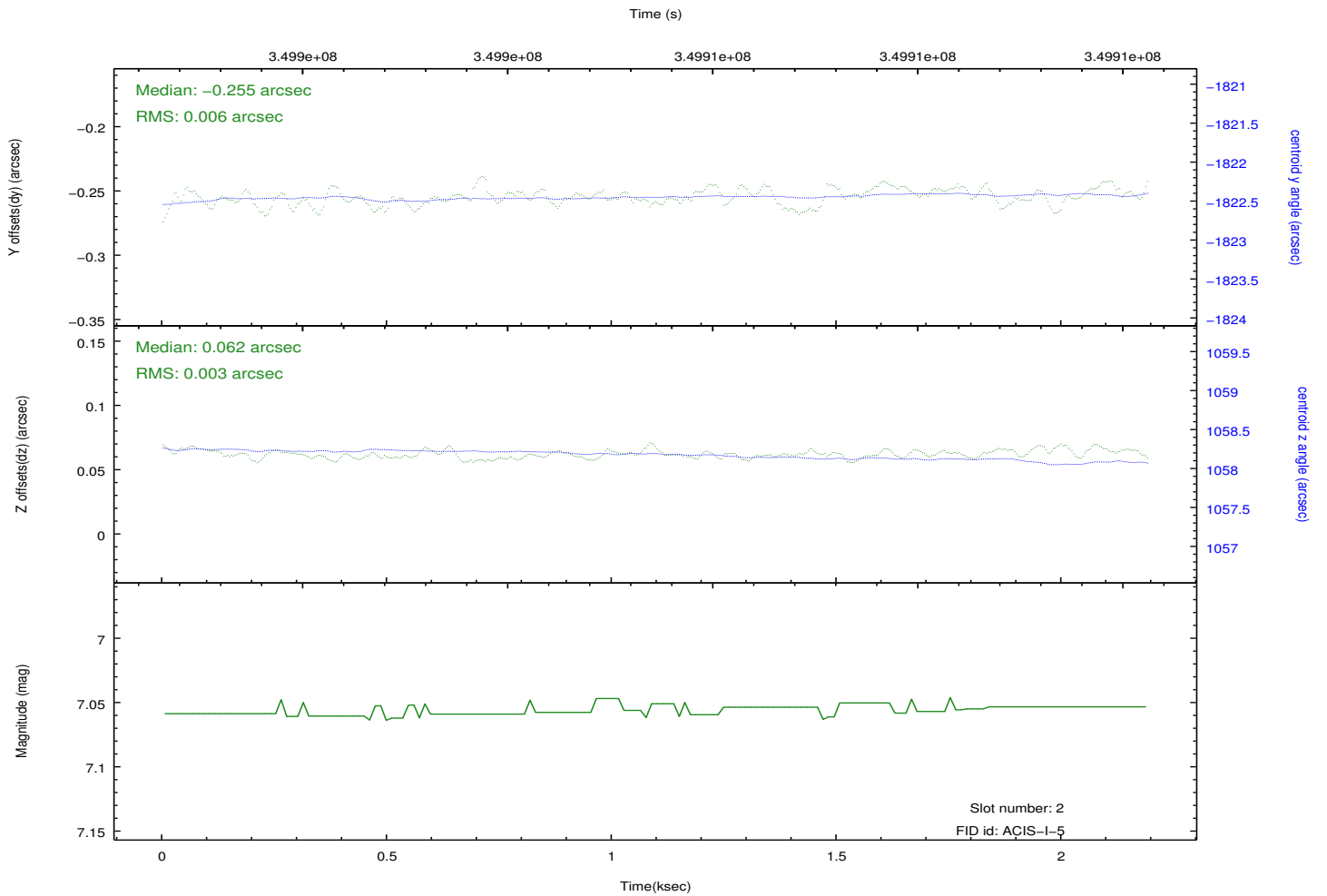
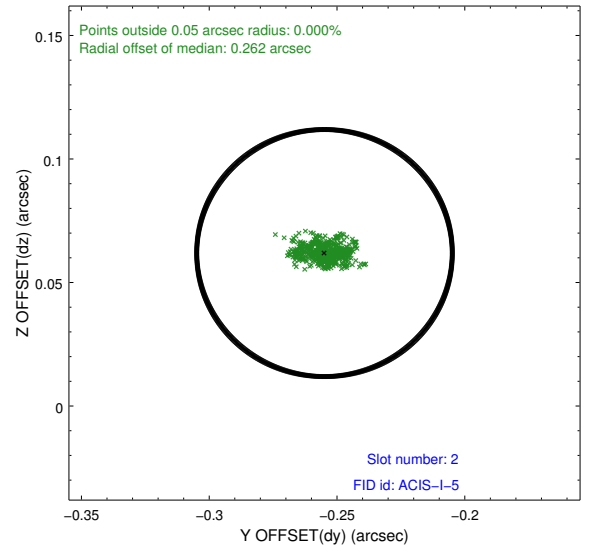
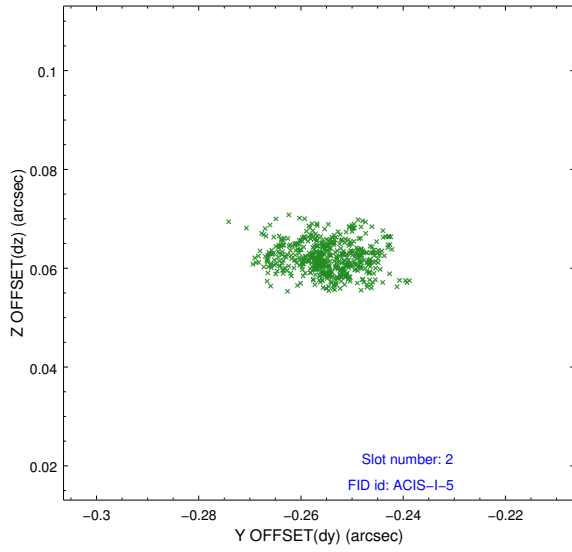
### 2.5.1 Slot 0



## 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	2.18855905

## A.2 Comments

Joint Proposal: NOAO