

# V&V Reference Report

## L2 ASCDS Version : 10.6

Observation 19663 - L2 Version 1  
Chandra X-Ray Center

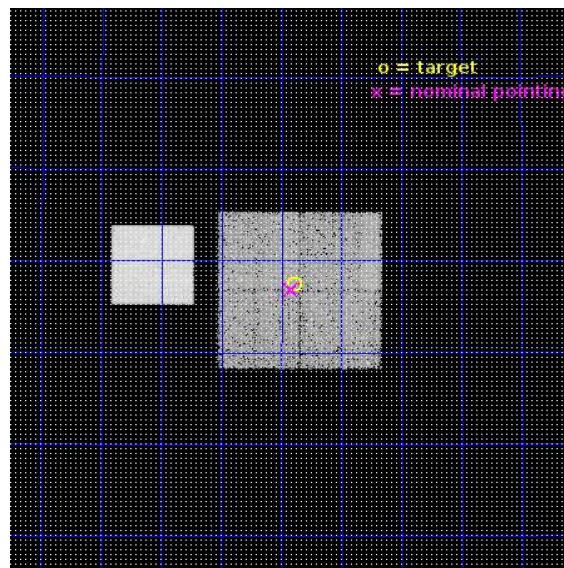
L2 Processing Date : Aug 23 2017

## 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

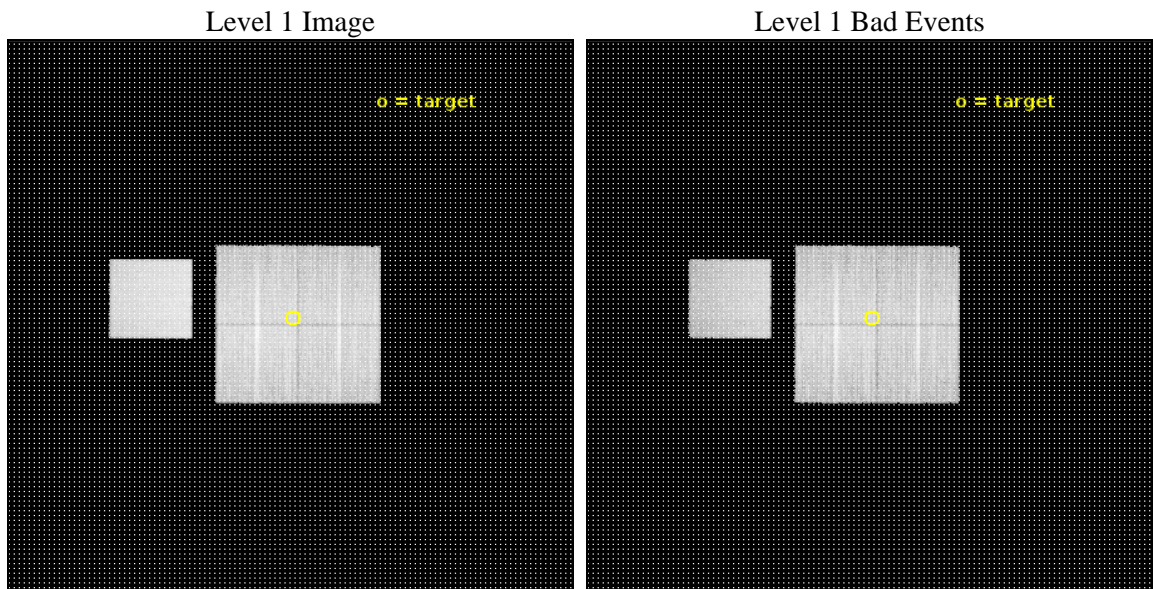
seq_num	901370	Sequence number
obs_id	19663	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	CDWFS	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.59862	Observer's specified target RA [deg]
dec_targ	33.122902	Observer's specified target Dec [deg]
ra_nom	216.60411594373	Nominal RA [deg]
dec_nom	33.113880549027	Nominal Dec [deg]
roll_nom	270.20567300556	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24294.642460227	Sum of GTIs [s]
livetime	23977.215071029	Livetime [s]
ontime0	24294.519340158	Sum of GTIs [s]
ontime1	24291.419409871	Sum of GTIs [s]
ontime2	24294.601420164	Sum of GTIs [s]
ontime3	24294.642460227	Sum of GTIs [s]
ontime7	24294.683500171	Sum of GTIs [s]
l2events	150368	Number of level 2 events



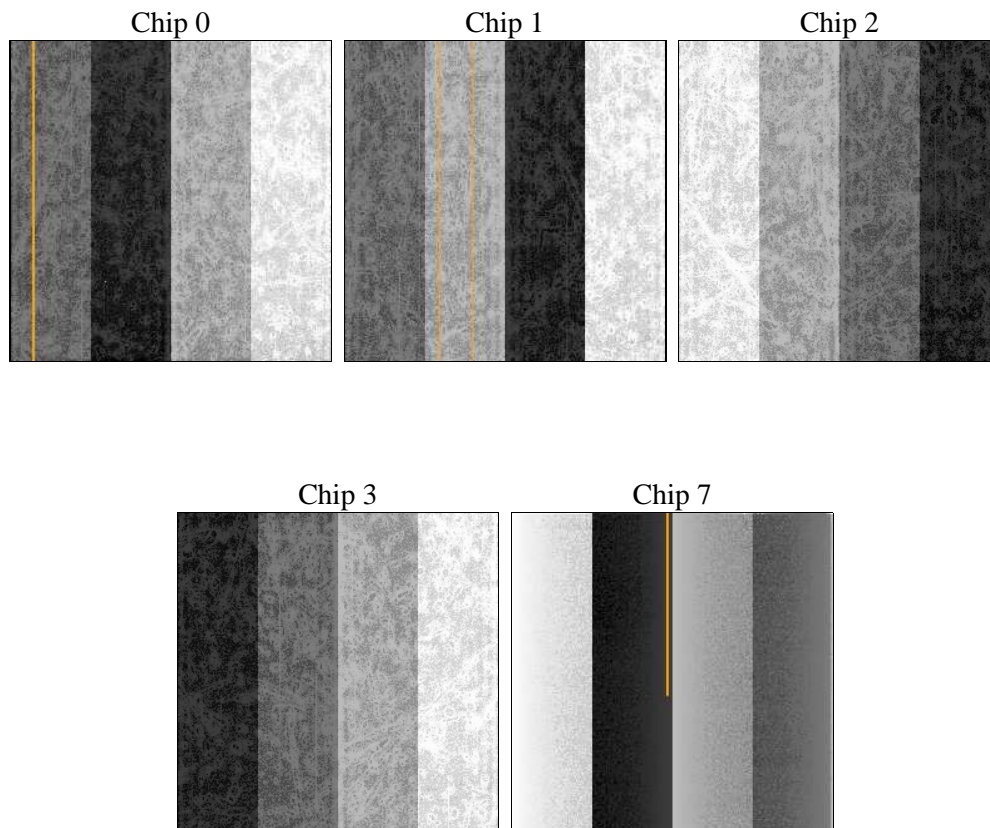
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24518.940000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	24294.642460227	Sum of GTIs [s]
caldbver	4.7.5	&#160	ontime0	24294.519340158	Sum of GTIs [s]
date	2017-08-23T17:31:54	Date and time of file creation	ontime1	24291.419409871	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24294.601420164	Sum of GTIs [s]
			ontime3	24294.642460227	Sum of GTIs [s]
			ontime7	24294.683500171	Sum of GTIs [s]
			l1events	826417	Number of level 1 events

### 2.1.4 Events

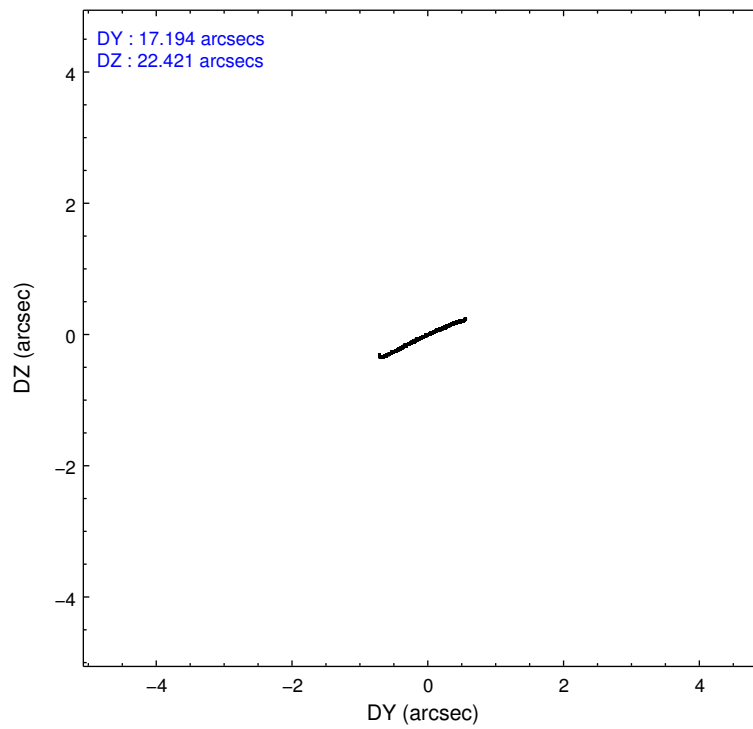
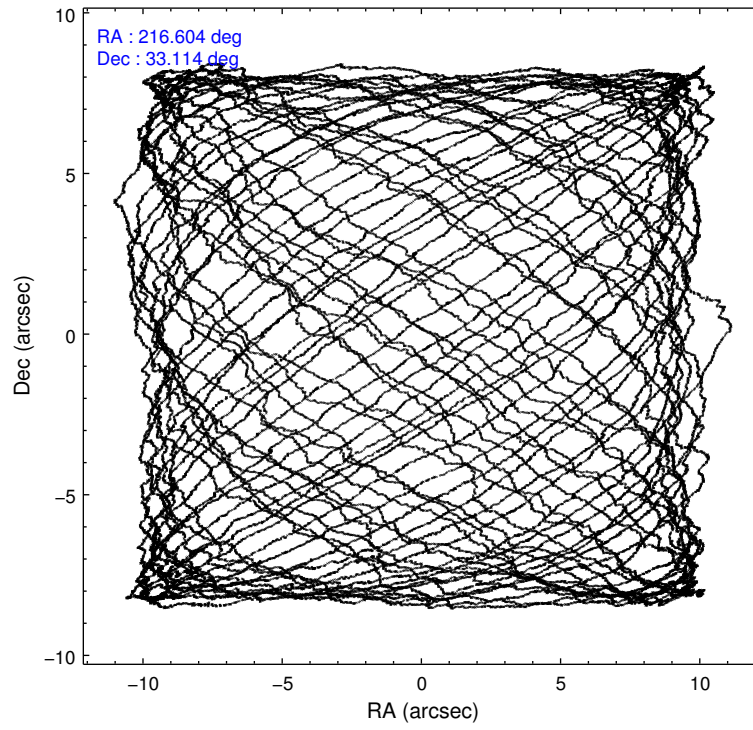
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	149938	144062	167474	155736	209207
rejected events	131504	124248	149676	137470	118346
rejected %	87%	86%	89%	88%	56%

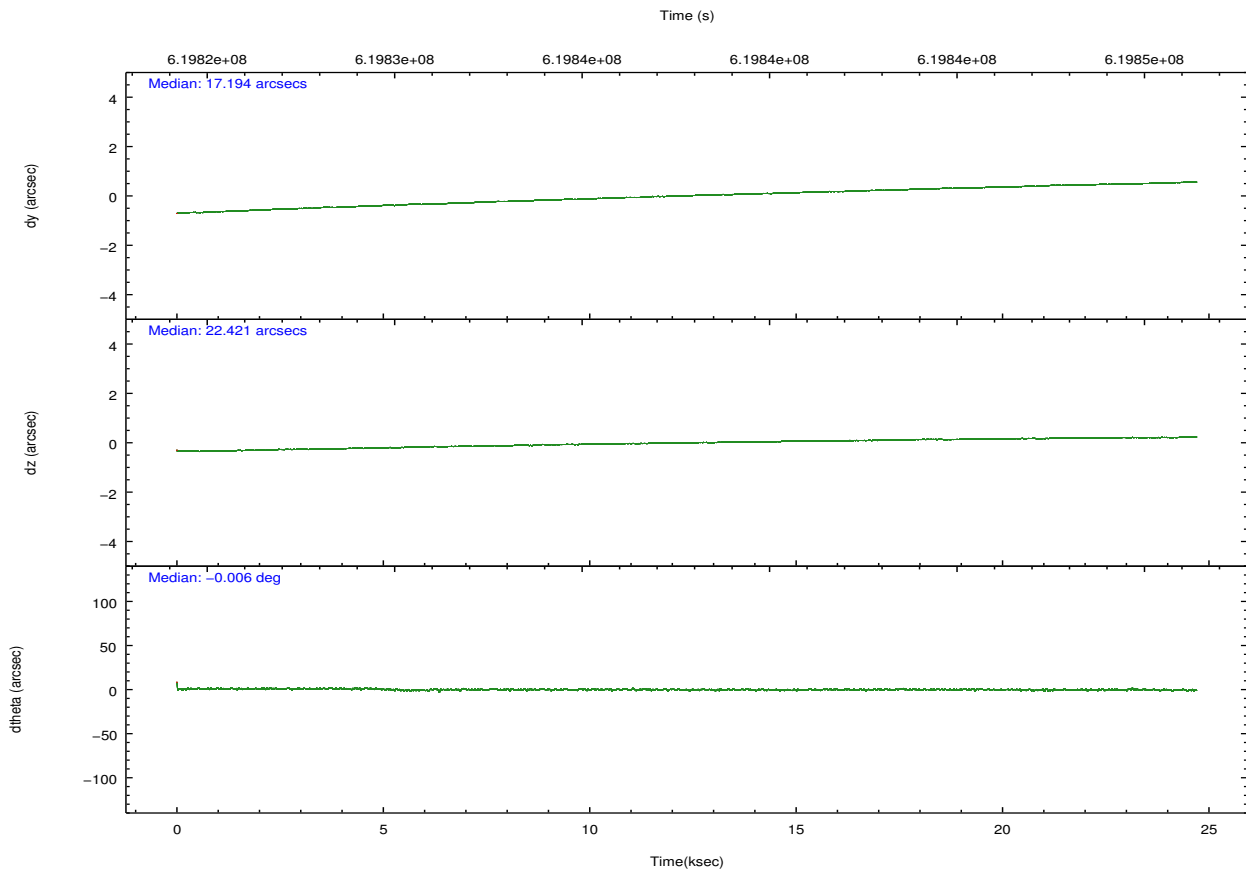
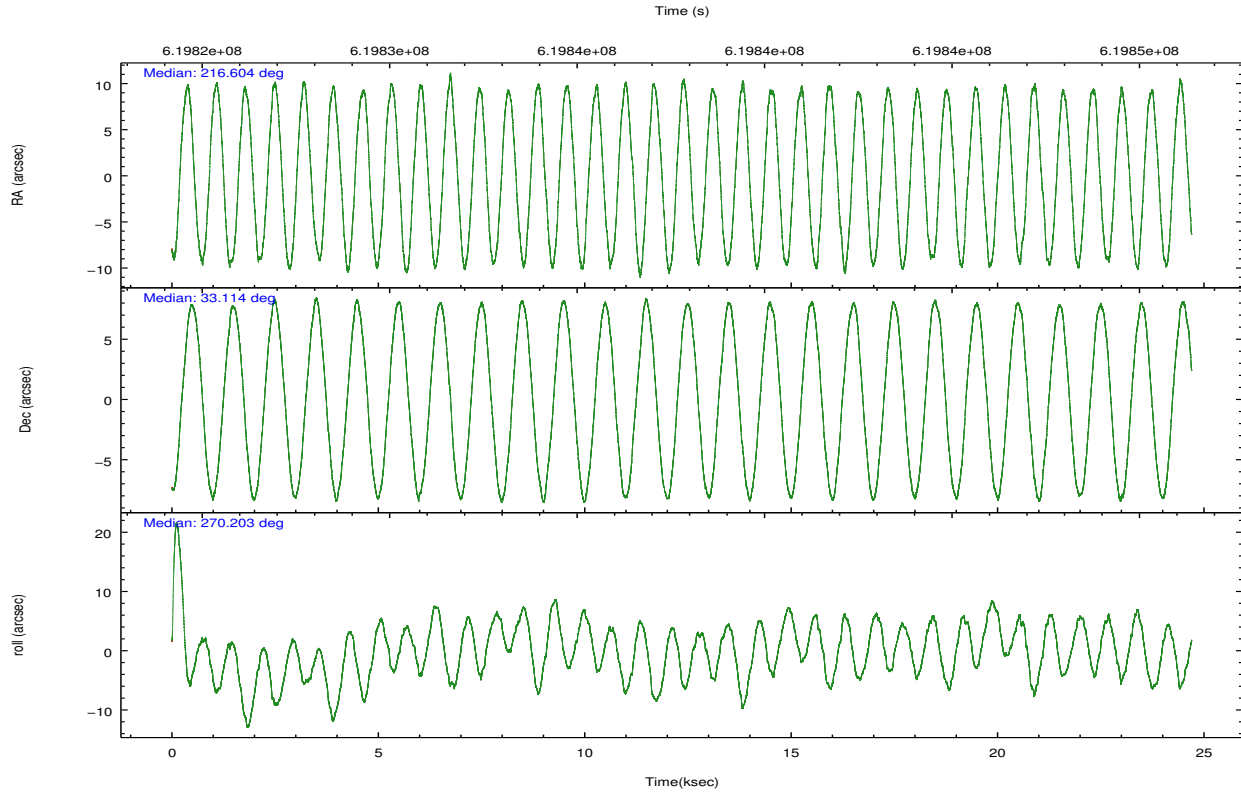
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6404	6747	6260	6927	7791
	4%	4%	3%	4%	3%
grade 1 events	87	88	94	109	296
	0%	0%	0%	0%	0%
grade 2 events	4791	5010	4560	3968	19351
	3%	3%	2%	2%	9%
grade 3 events	1789	1924	1717	1794	7297
	1%	1%	1%	1%	3%
grade 4 events	1728	1879	1792	1840	7211
	1%	1%	1%	1%	3%
grade 5 events	6675	7378	6225	7786	20782
	4%	5%	3%	4%	9%
grade 6 events	3728	4258	3470	3739	49218
	2%	2%	2%	2%	23%
grade 7 events	124736	116778	143356	129573	97261
	83%	81%	85%	83%	46%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	216.587423	216.604115943727	CCD I2 on	Y	Y
[deg] Pointing Dec	33.137668	33.11388054902677	CCD I3 on	Y	Y
[deg] Pointing Roll	270.006119	270.2056730055598	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	619825614.184000	619825176.70055	CCD S5 on	N	N
Observation start date	2017-08-22T21:45:45	2017-08-22T21:39:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	619850133.184000	619850367.61453	On-chip summing requested	N	N
Observation end date	2017-08-23T04:34:24	2017-08-23T04:39:27	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

## 2.3 Aspect





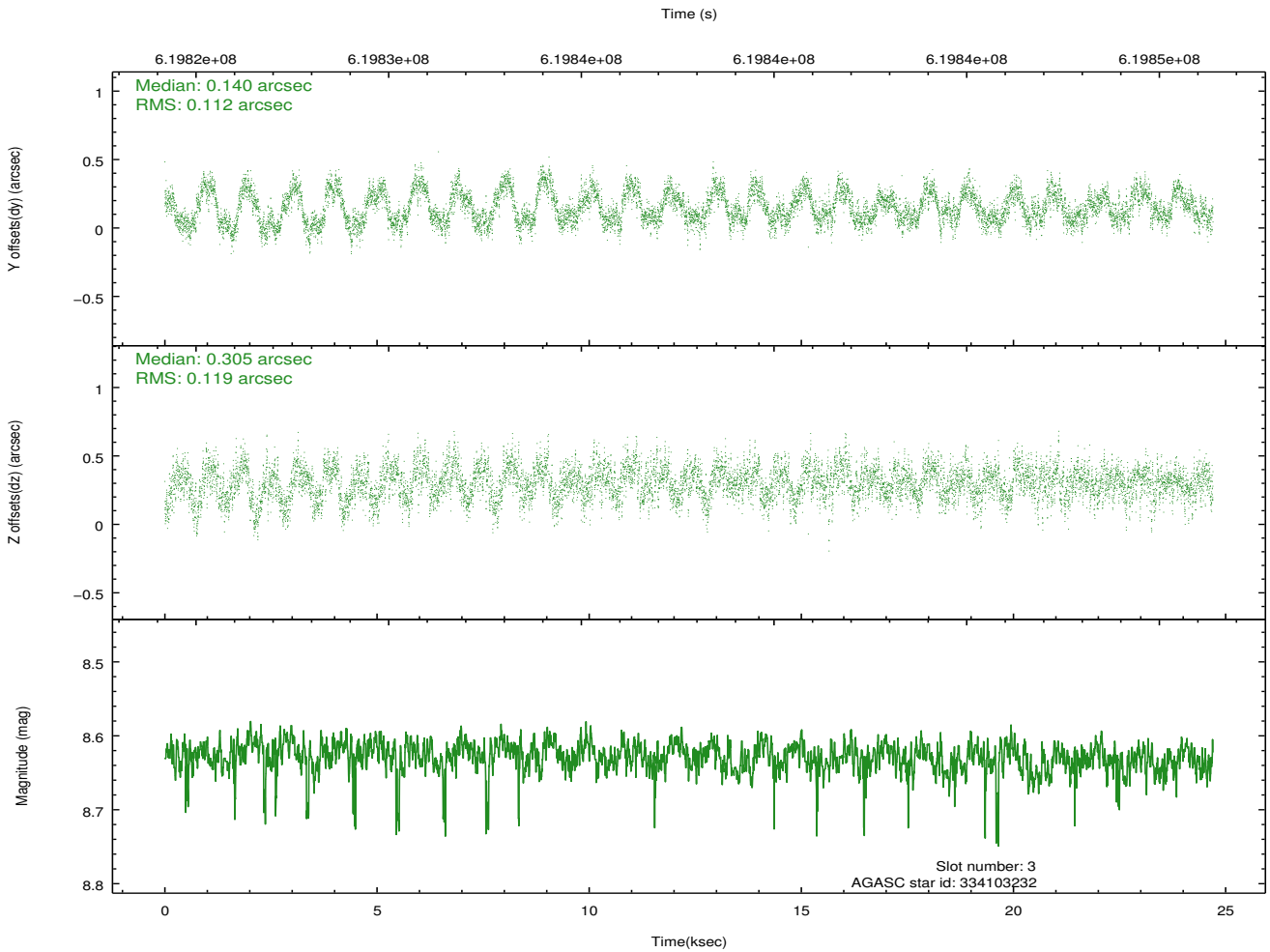
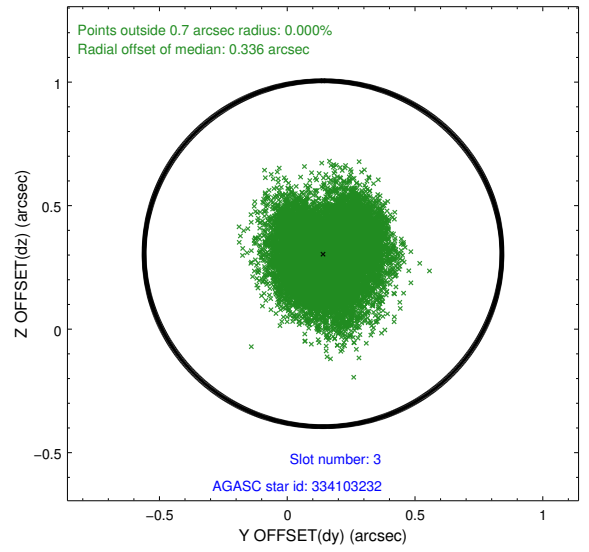
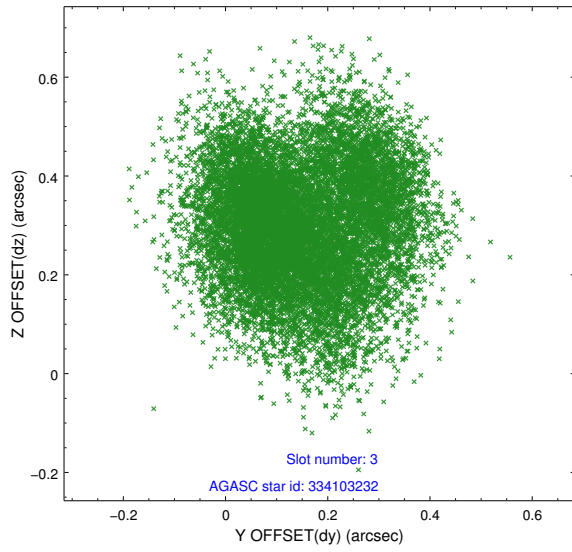
### Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.10	6026	-0.089	-0.083	0.016	0.036	0.000000	0.000000	922.19	-846.22
1	FID		ACIS-I-4	7.04	6026	0.425	0.124	0.019	0.036	0.000000	0.000000	2142.68	1053.82
2	FID		ACIS-I-5	7.08	6025	-0.434	0.030	0.013	0.023	0.000000	0.000000	-1826.12	1051.45
3	GUIDE	used	334103232	8.63	12045	0.140	0.305	0.179	0.273	215.850271	33.571936	-1570.60	-2210.53
4	GUIDE	used	335021200	8.83	12037	0.070	0.110	0.135	0.230	216.377257	32.627867	1834.91	-638.27
5	GUIDE	used	335022112	9.16	12038	-0.013	-0.232	0.167	0.272	216.659296	32.794758	1236.05	217.53
6	GUIDE	used	335028240	9.13	12044	-0.250	-0.084	0.161	0.275	216.746851	33.385009	-890.87	478.38
7	GUIDE	used	335029808	9.04	12035	0.041	-0.093	0.141	0.247	216.789548	33.180488	-154.31	608.90

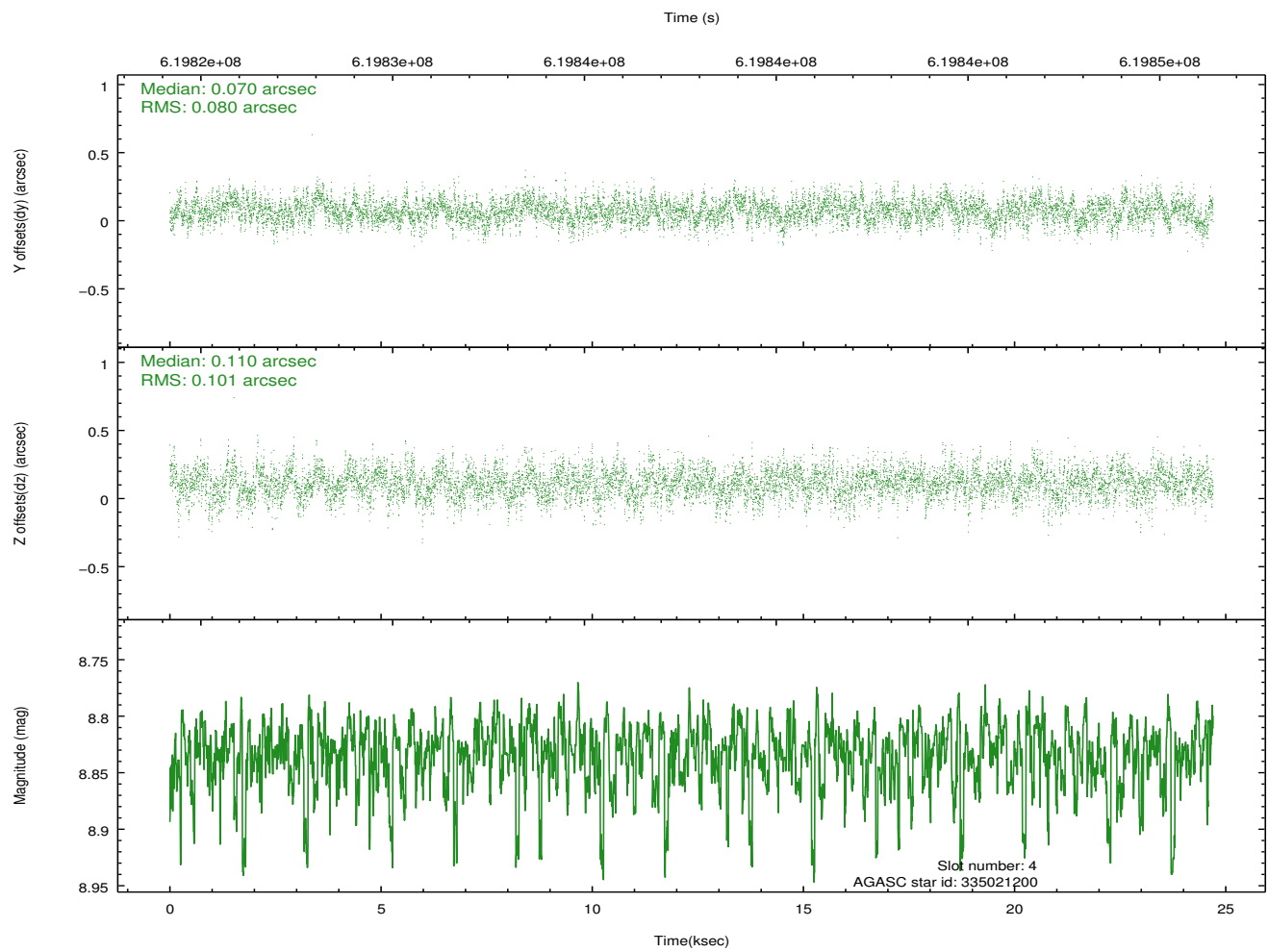
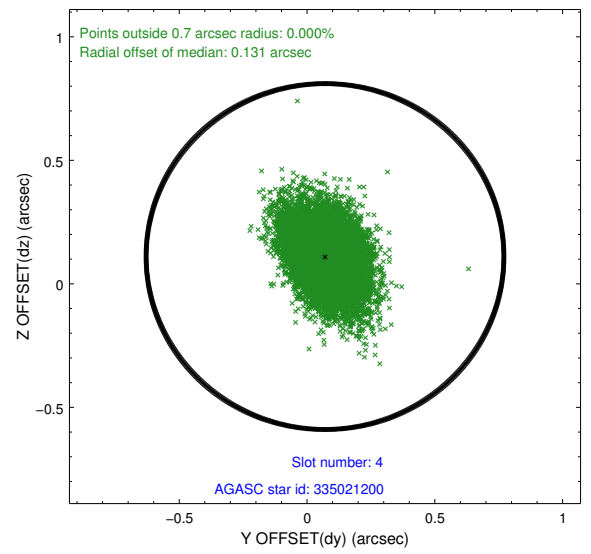
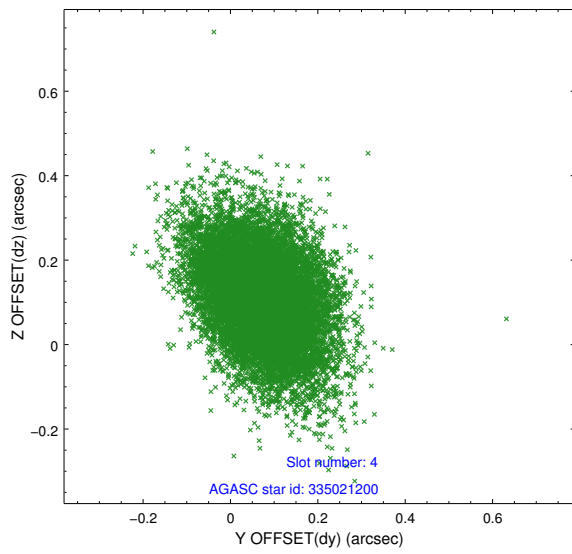
∞

## 2.4 Star Slots

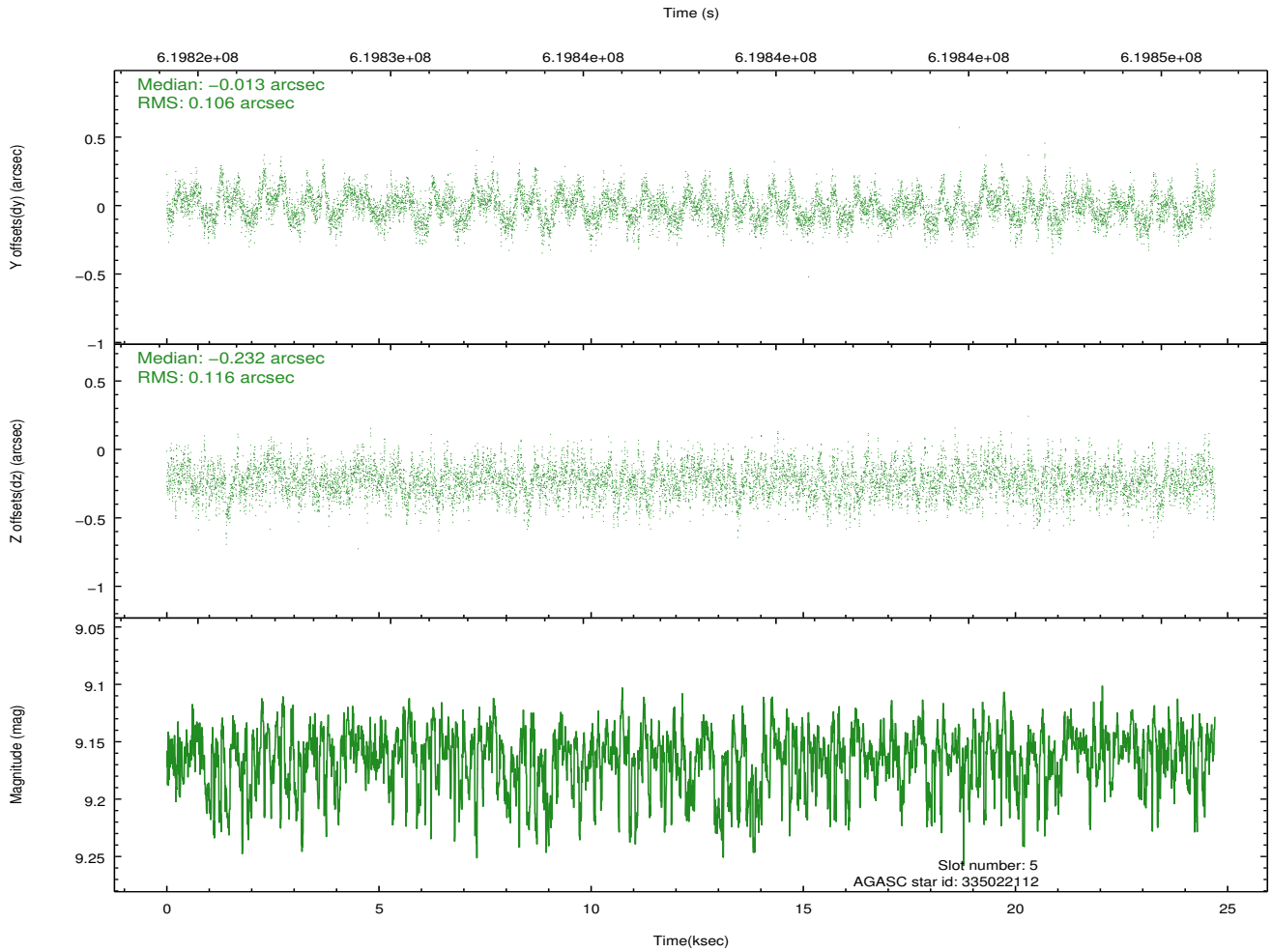
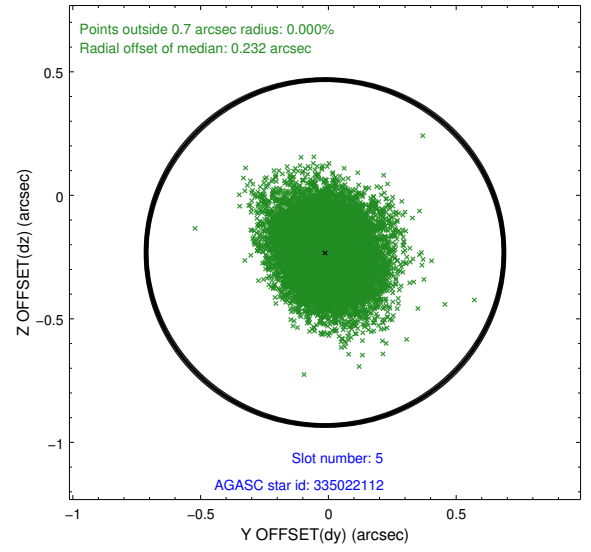
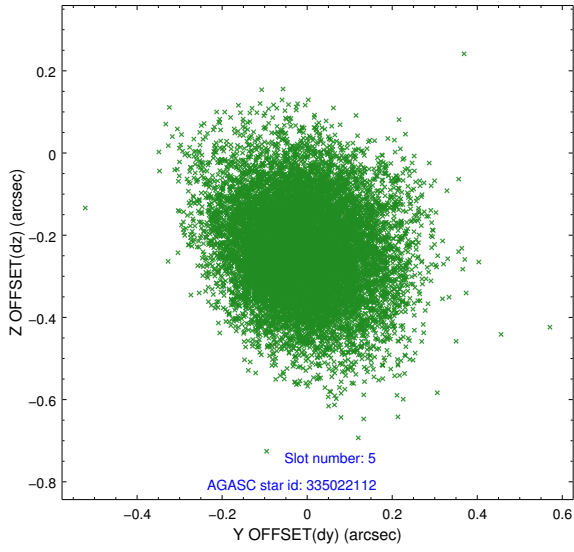
### 2.4.1 Slot 3



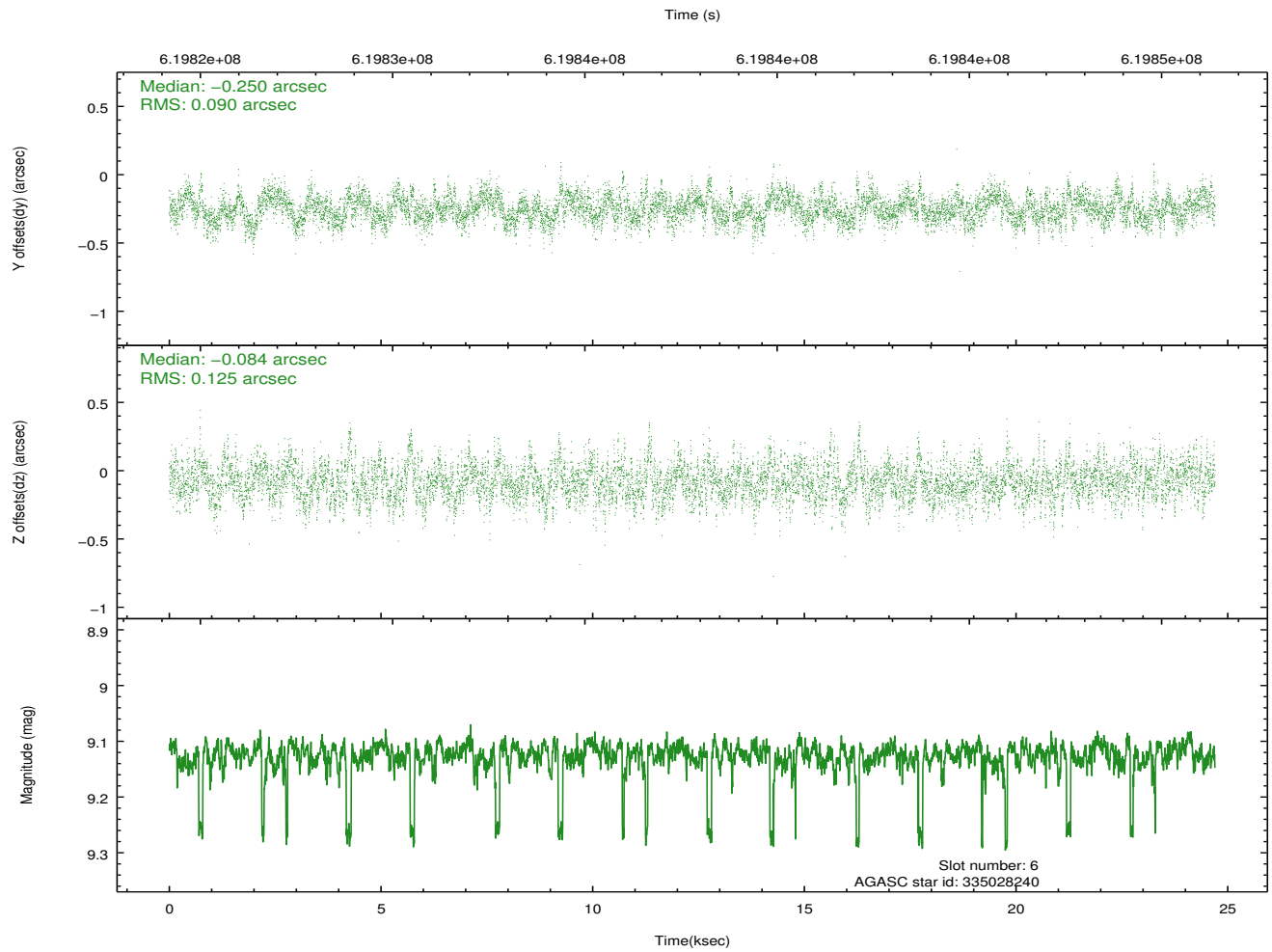
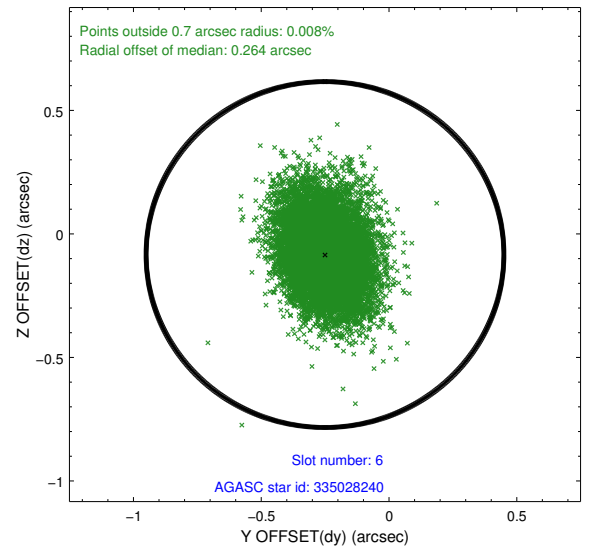
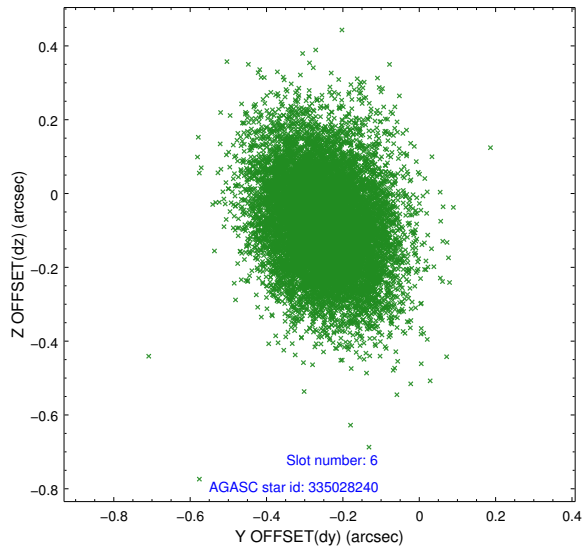
## 2.4.2 Slot 4



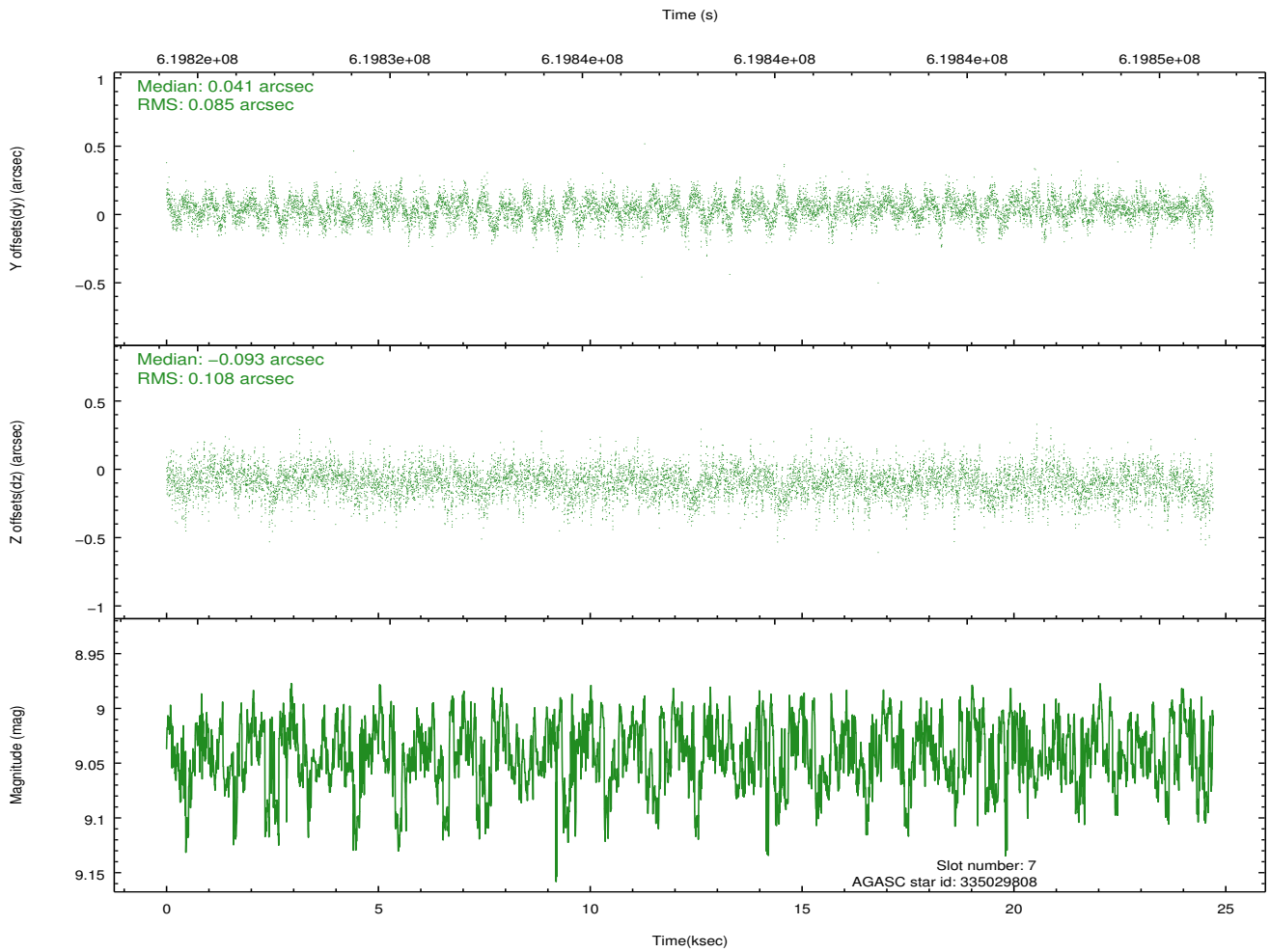
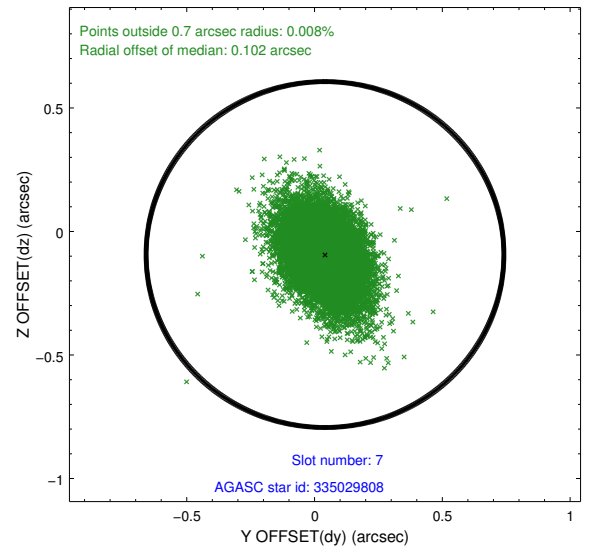
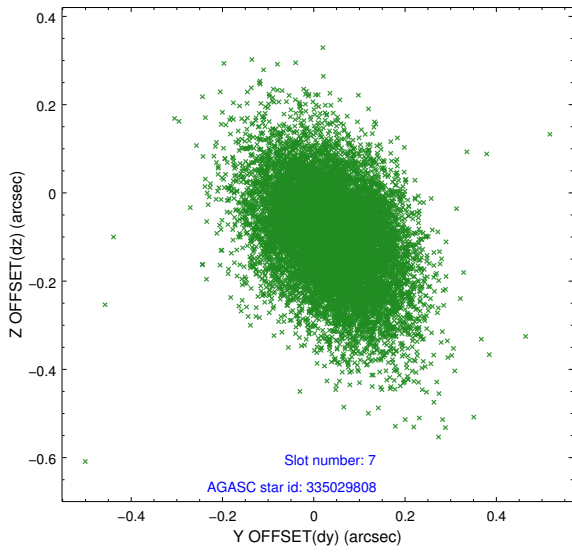
### 2.4.3 Slot 5



## 2.4.4 Slot 6

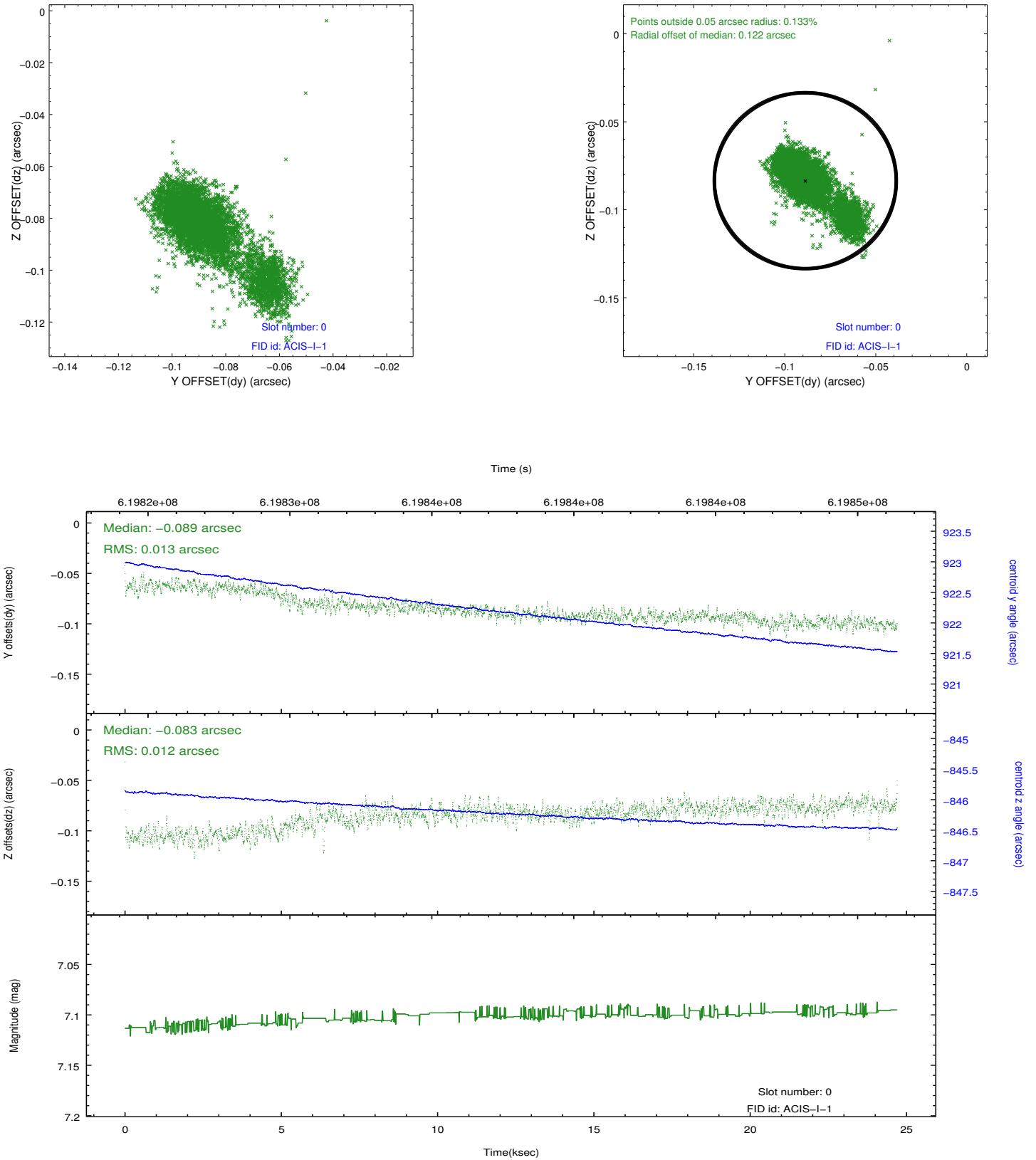


### 2.4.5 Slot 7

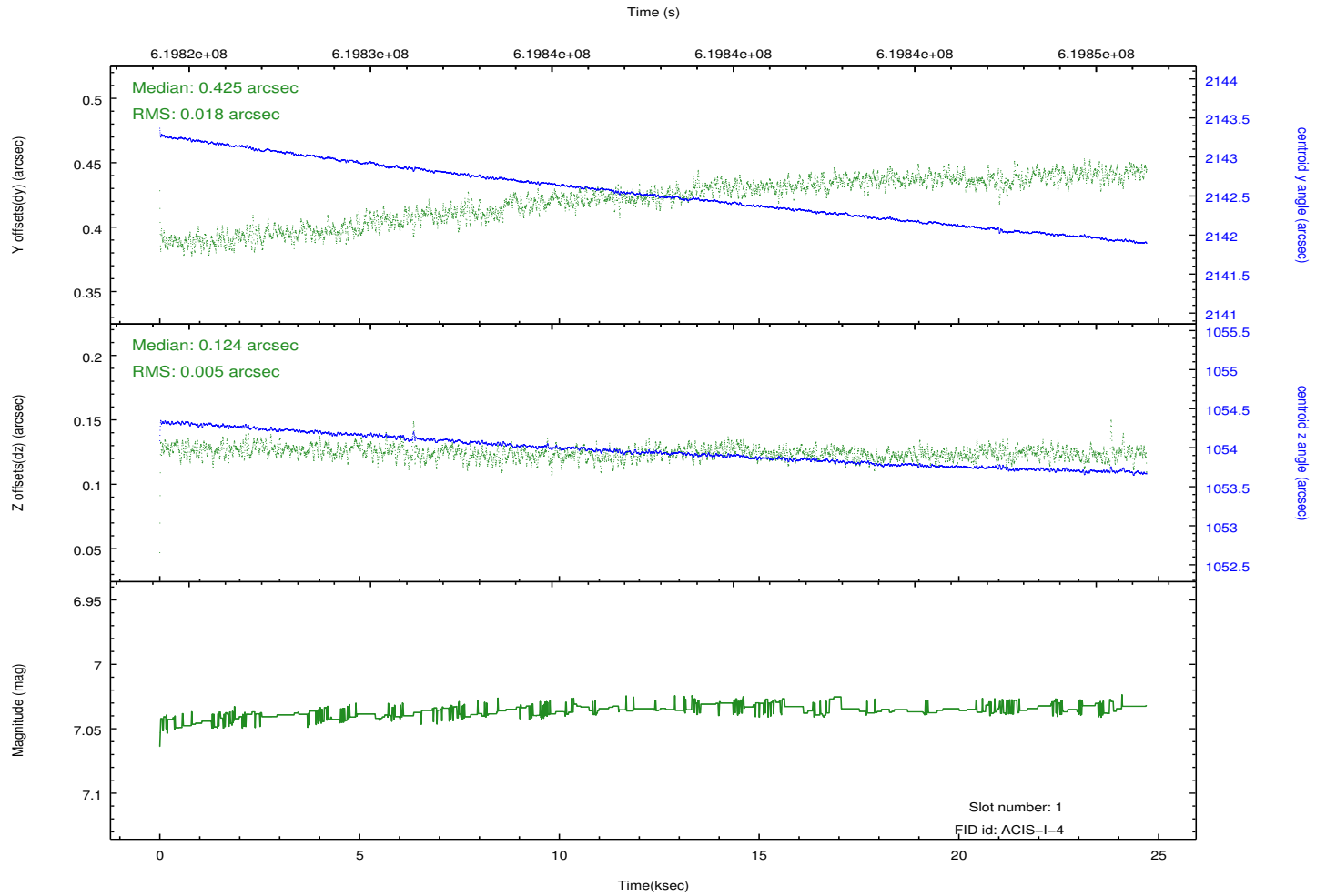
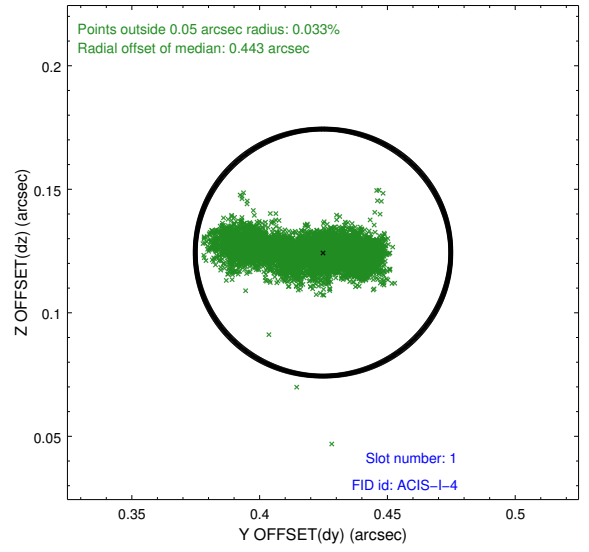
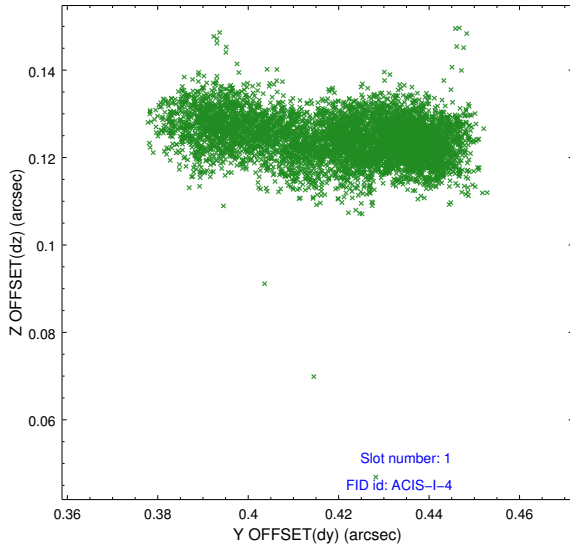


## 2.5 FID Slots

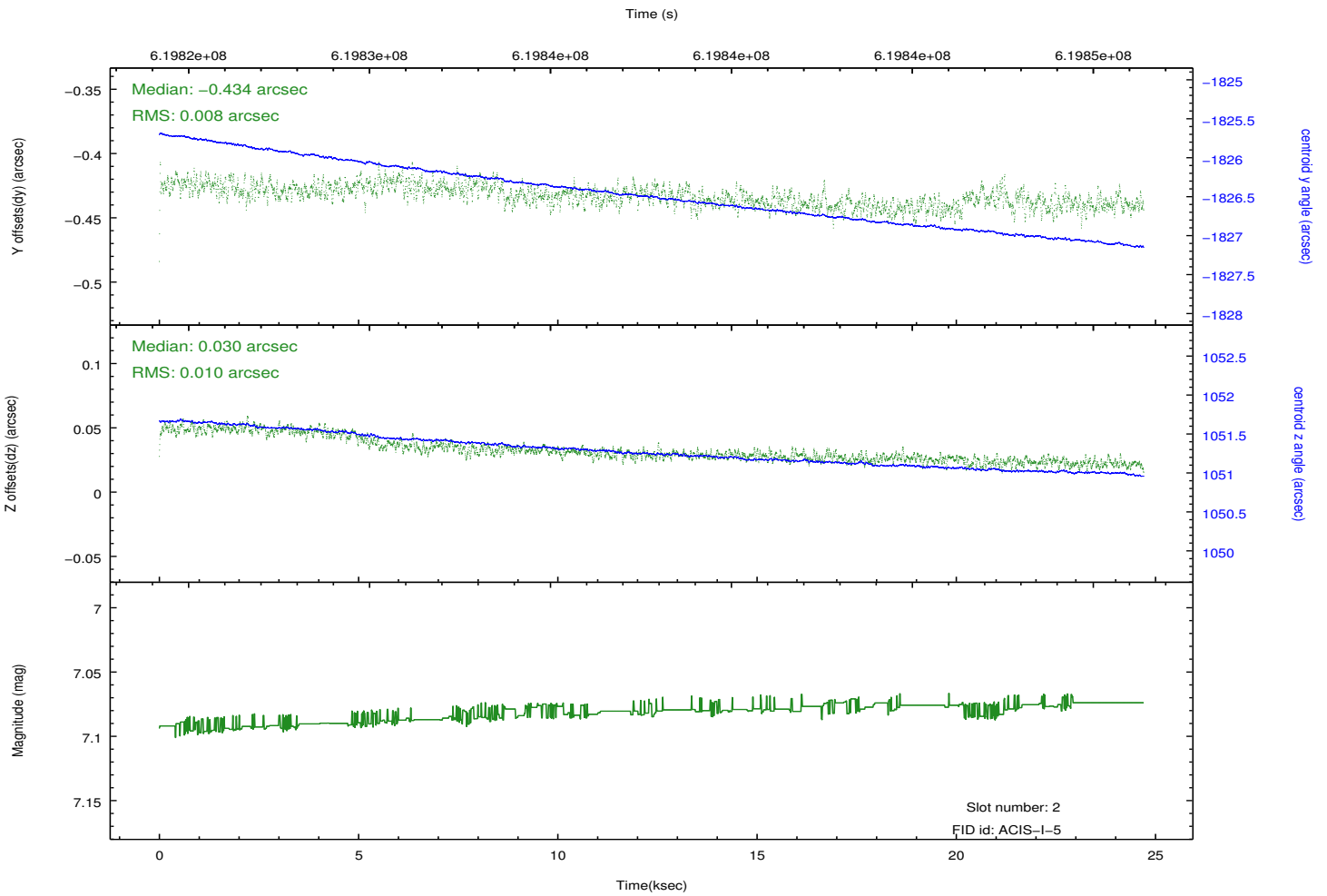
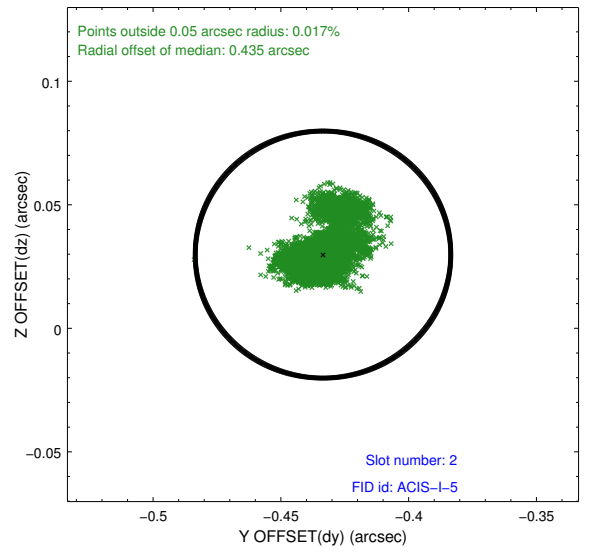
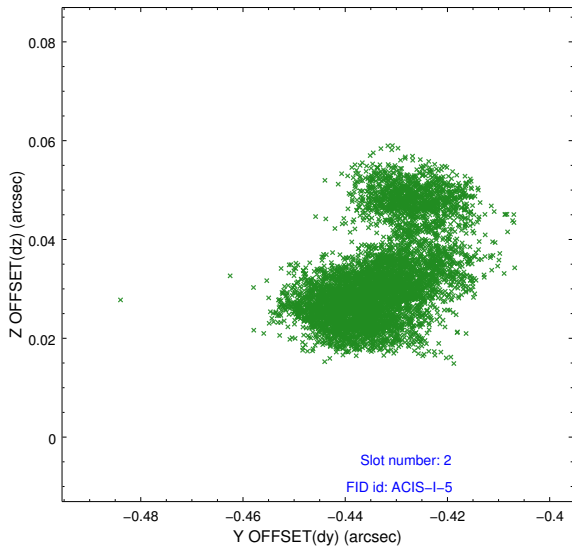
### 2.5.1 Slot 0



## 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)	2017.08.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.294642460227

## A.2 Comments