

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17633 - L2 Version 1
Chandra X-Ray Center

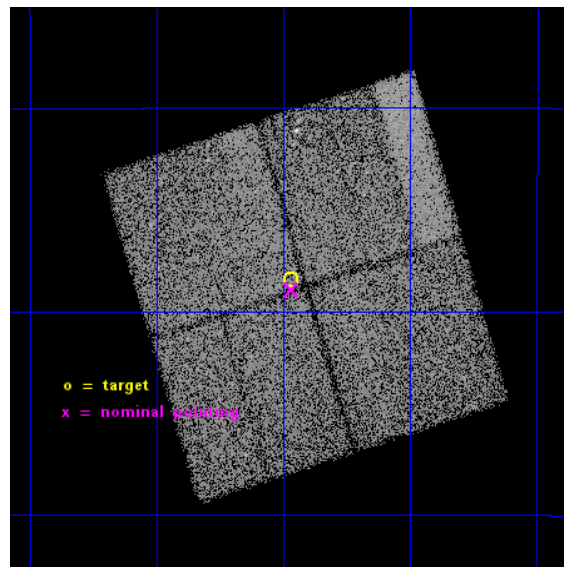
L2 Processing Date : Mar 17 2015

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1 Front

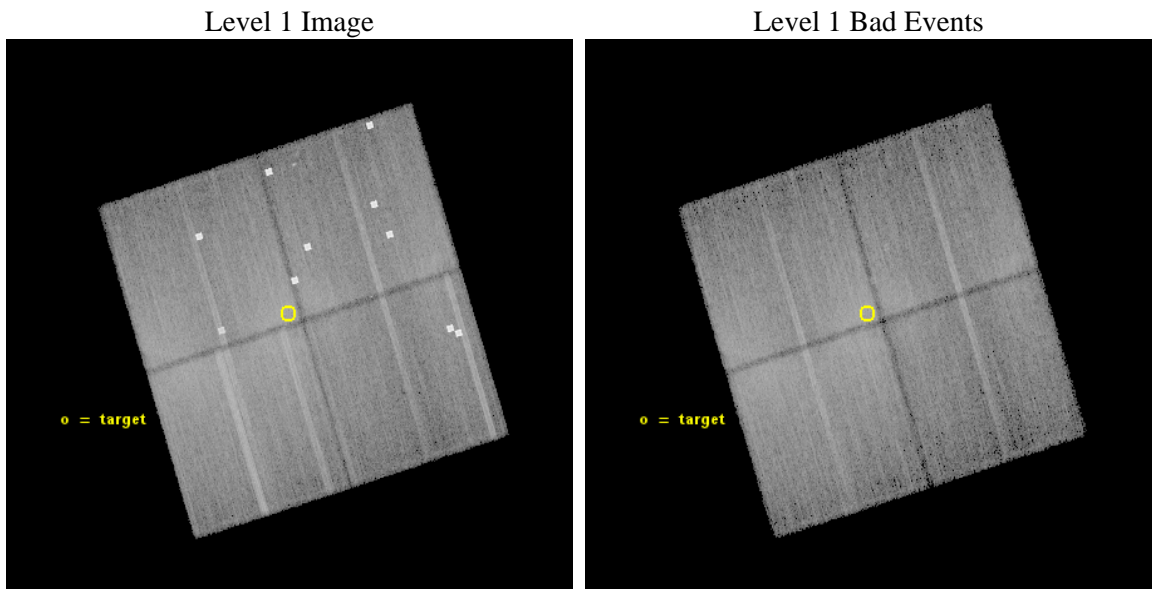
seq_num	901115	Sequence number
obs_id	17633	Observation id
title	The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe	Proposal title
observer	Prof. W.N. Brandt	Principal investigator
object	Chandra Deep Field-South	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	53.117083	Observer's specified target RA [deg]
dec_targ	-27.807333	Observer's specified target Dec [deg]
ra_nom	53.117099065743	Nominal RA [deg]
dec_nom	-27.815513014641	Nominal Dec [deg]
roll_nom	252.70868943237	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35990.565222263	Sum of GTIs [s]
livetime	35520.321991766	Livetime [s]
ontime0	35987.301112056	Sum of GTIs [s]
ontime1	35990.483142257	Sum of GTIs [s]
ontime2	35990.52418232	Sum of GTIs [s]
ontime3	35990.565222263	Sum of GTIs [s]
l2events	98589	Number of level 2 events



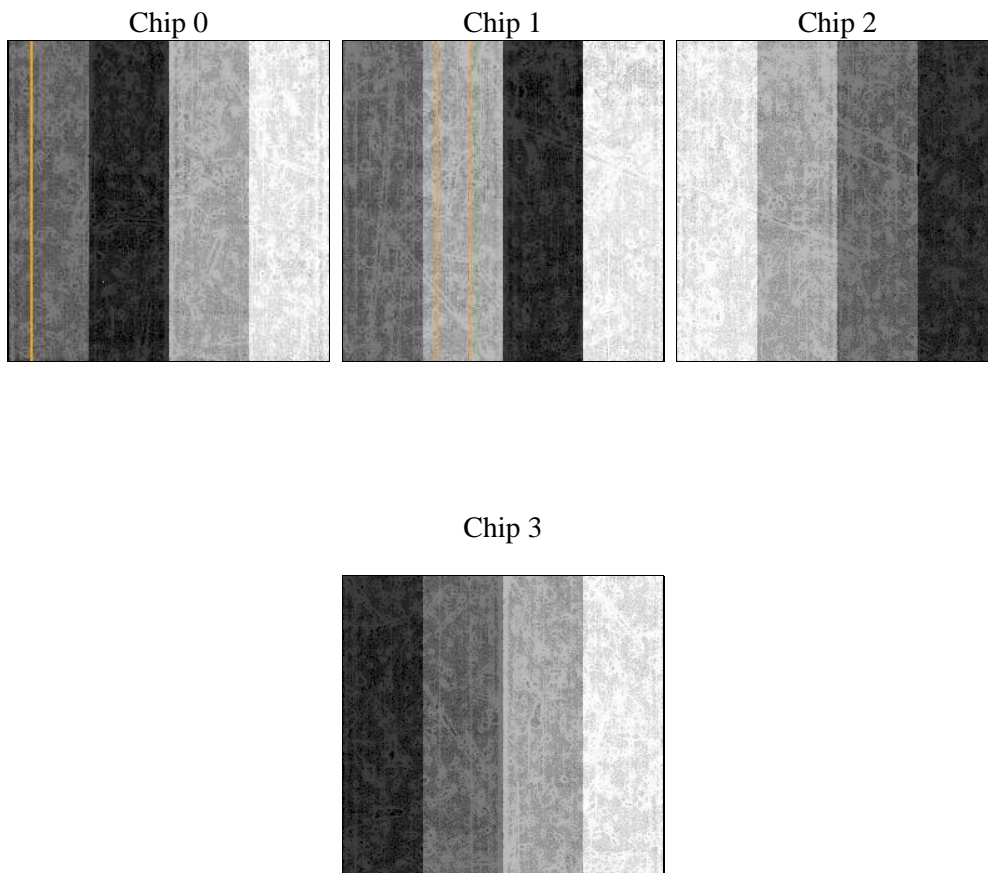
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	35907.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	35990.565222263	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	35987.301112056	Sum of GTIs [s]
date	2015-03-17T12:18:44	Date and time of file creation	ontime1	35990.483142257	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	35990.52418232	Sum of GTIs [s]
			ontime3	35990.565222263	Sum of GTIs [s]
			l1events	1416458	Number of level 1 events

2.1.4 Events

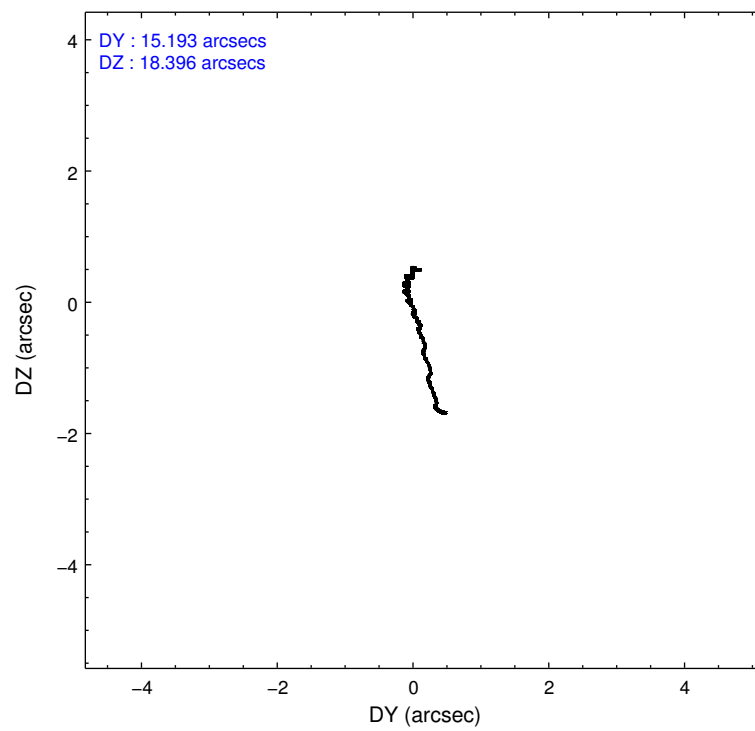
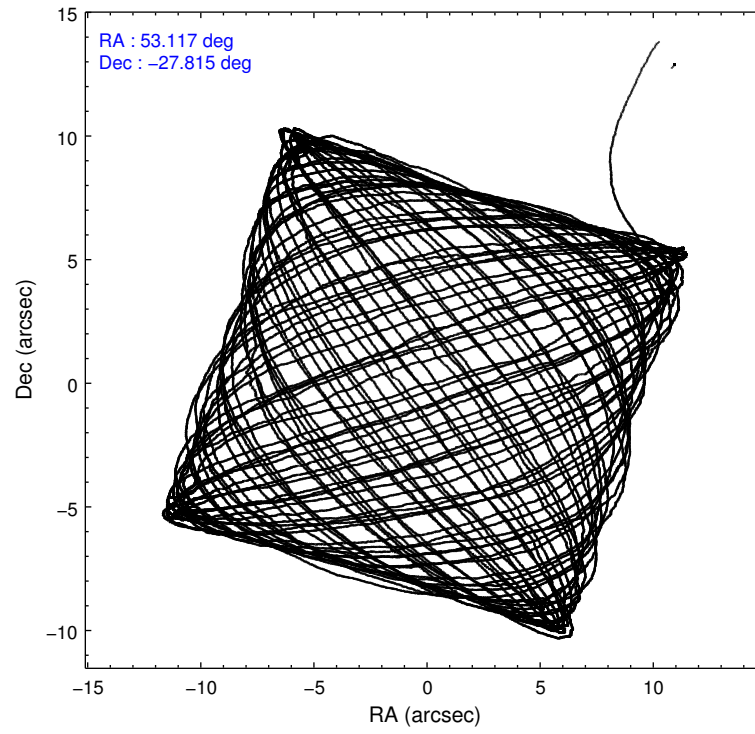
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	295799	362603	401048	357008
rejected events	222060	257985	333319	314450
rejected %	75%	71%	83%	88%

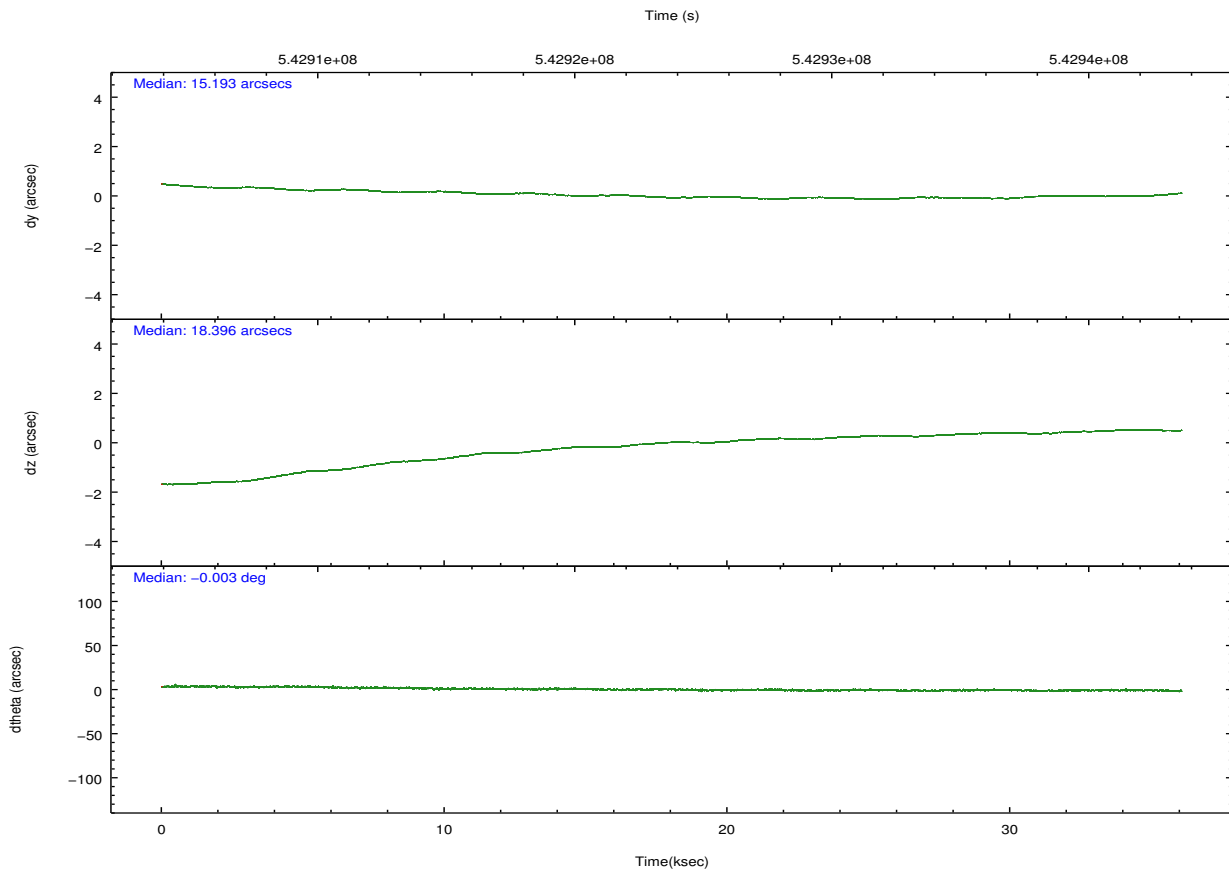
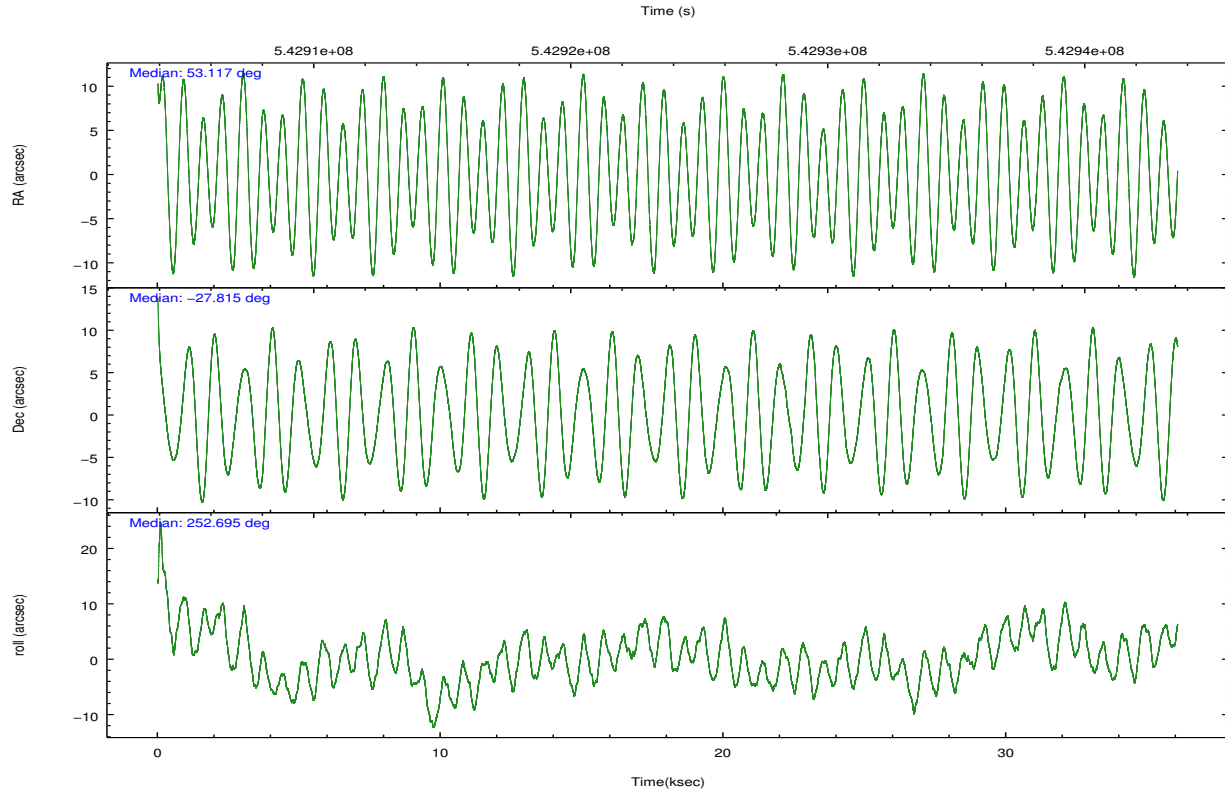
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	48243	58995	32421	23121
	16%	16%	8%	6%
grade 1 events	418	384	389	161
	0%	0%	0%	0%
grade 2 events	16874	34367	19233	11132
	5%	9%	4%	3%
grade 3 events	2206	2361	2169	2112
	0%	0%	0%	0%
grade 4 events	2166	2406	7404	2143
	0%	0%	1%	0%
grade 5 events	7862	8120	7735	8531
	2%	2%	1%	2%
grade 6 events	4267	6512	6513	4055
	1%	1%	1%	1%
grade 7 events	213763	249458	325184	305753
	72%	68%	81%	85%

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	53.110126	53.11709906574275	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.788619	-27.81551301464124	Alternating exposures requested	N	N
[deg] Pointing Roll	252.496756	252.7086894323682	[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)	542905903.184000	542904707.18717			
Observation start date	2015-03-16T15:10:36	2015-03-16T14:51:47			
[s] Observation end time (MET)	542941810.184000	542942939.68931			
Observation end date	2015-03-17T01:09:03	2015-03-17T01:28:59			
Read mode	TIMED	TIMED			

2.3 Aspect





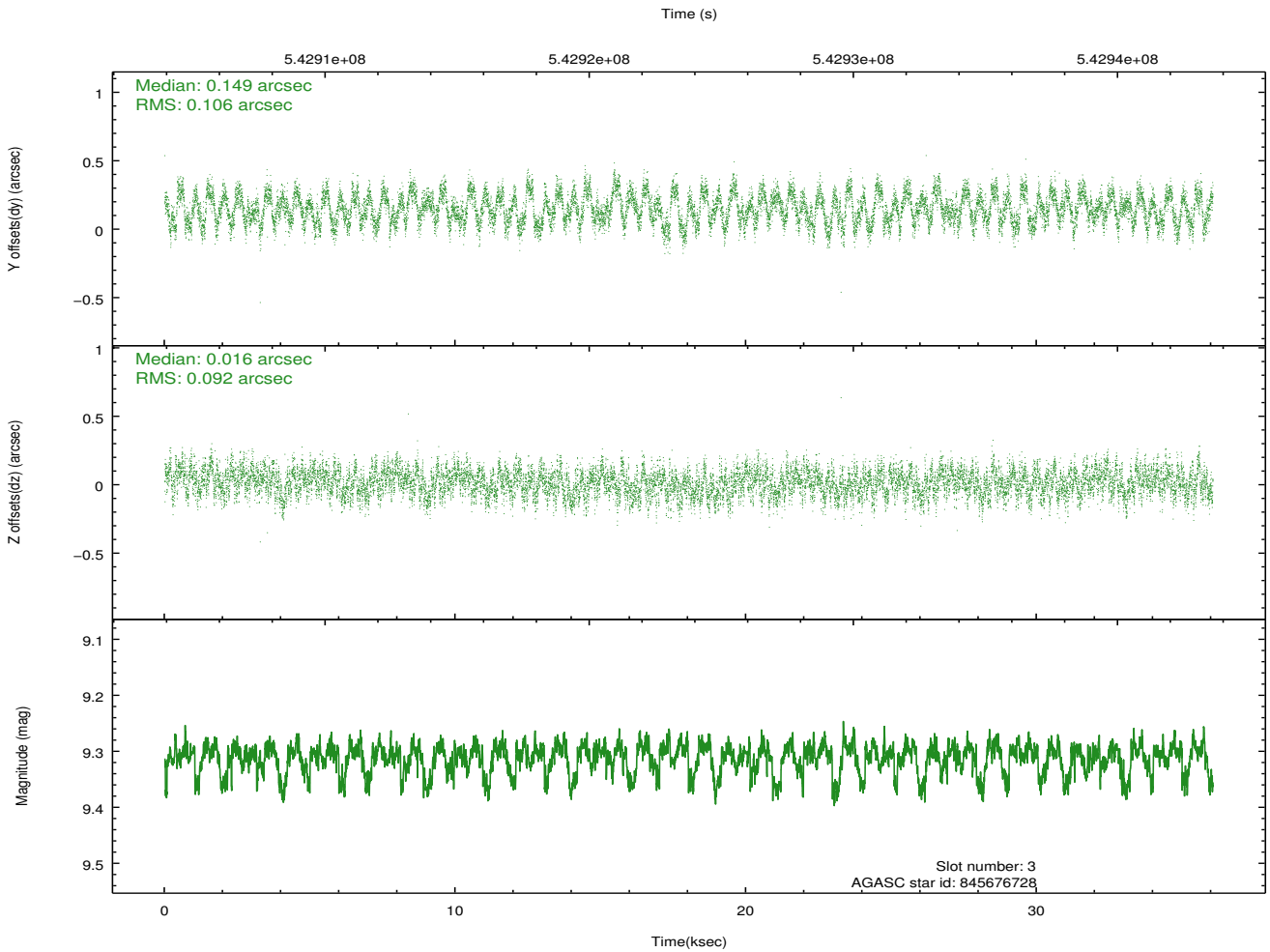
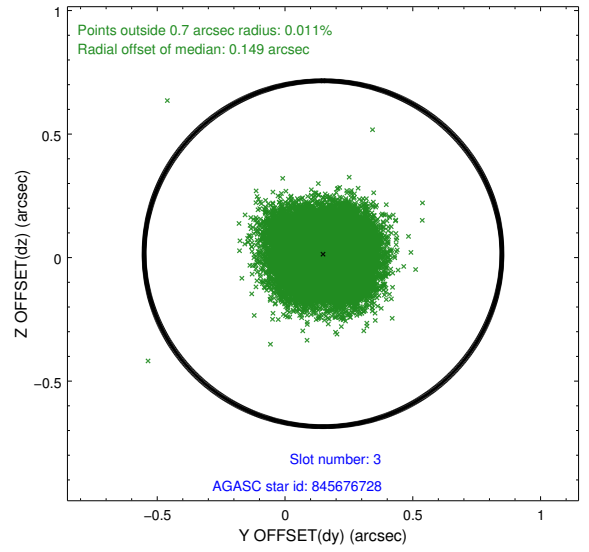
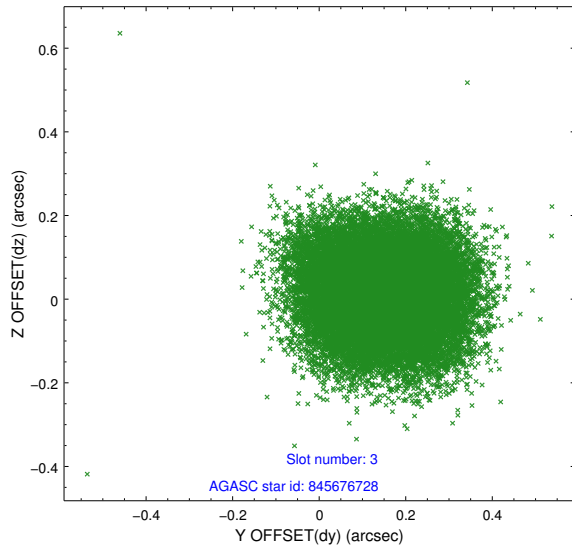
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.11	8796	0.058	0.029	0.018	0.064	0.000000	0.000000	924.28	-841.79
1	FID		ACIS-I-5	7.12	8796	-0.267	0.058	0.008	0.013	0.000000	0.000000	-1824.18	1055.67
2	FID		ACIS-I-6	7.11	8796	0.117	-0.015	0.014	0.059	0.000000	0.000000	389.79	1700.19
3	GUIDE	used	845676728	9.31	17583	0.149	0.016	0.154	0.228	52.877179	-27.664318	-201.82	-842.37
4	GUIDE	used	845676936	9.50	17579	0.089	-0.028	0.142	0.234	52.843773	-27.880153	570.47	-708.00
5	GUIDE	used	845807880	8.81	17523	-0.249	-0.130	0.103	0.169	53.382027	-27.886093	75.43	931.16
6	GUIDE	used	845808496	10.15	17566	0.238	-0.061	0.234	0.366	53.777917	-27.725281	-851.70	1962.85
7	GUIDE	used	845417688	9.91	17565	-0.213	0.205	0.200	0.343	54.025245	-27.354040	-2362.14	2323.55

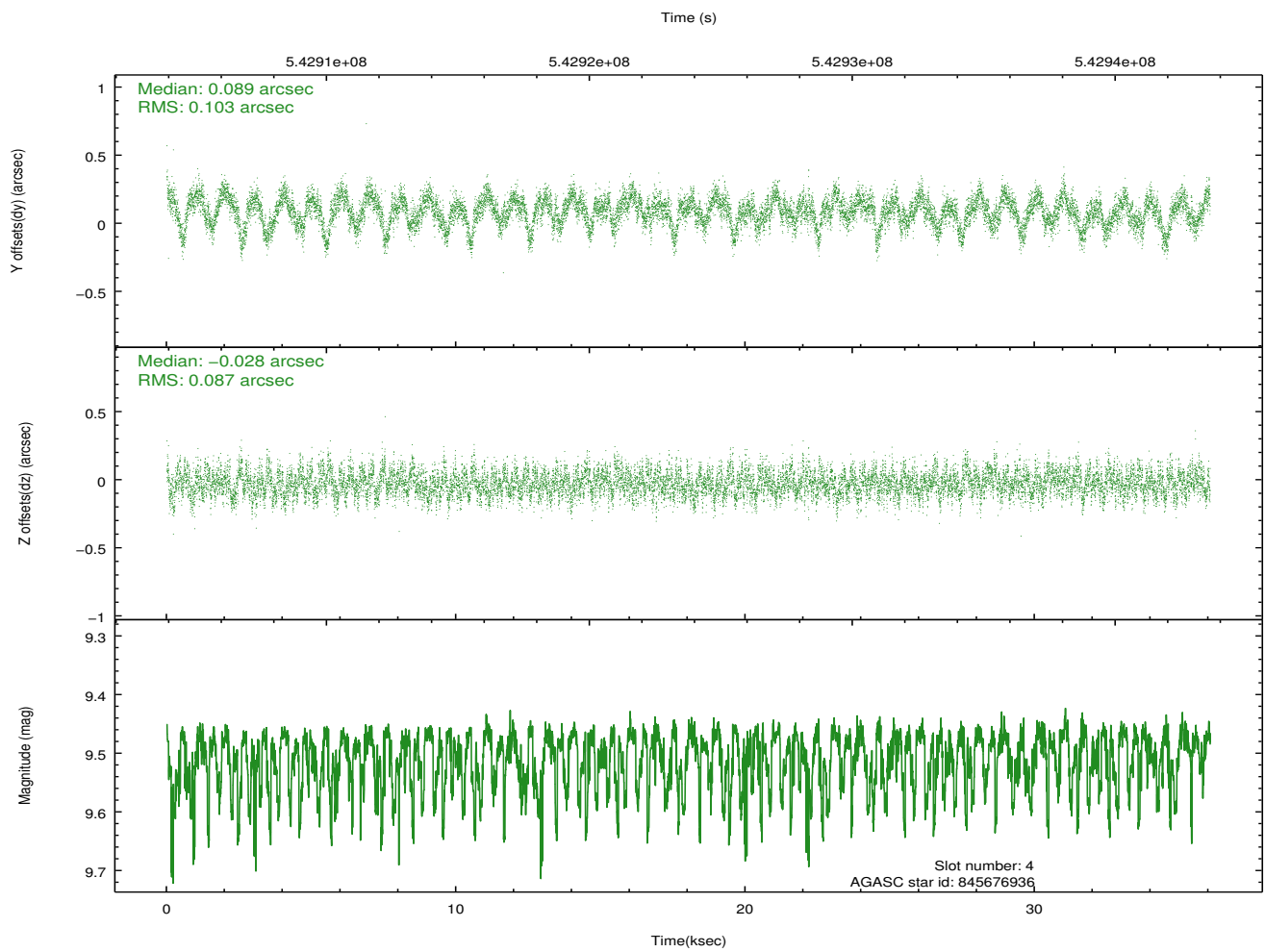
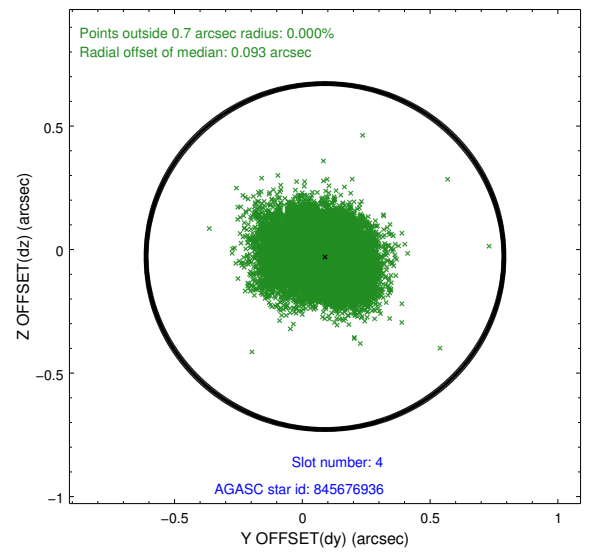
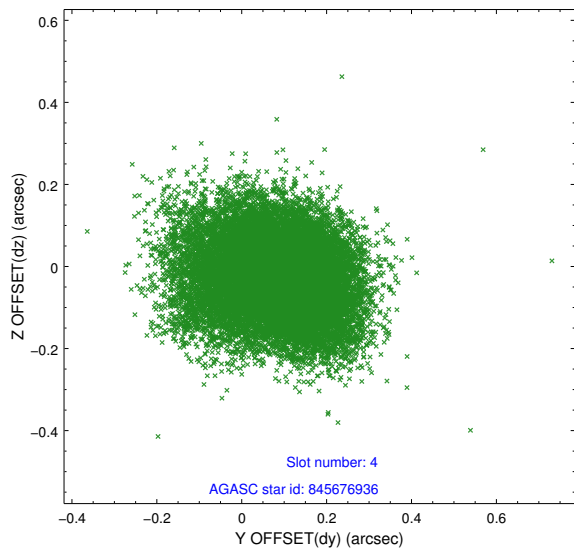
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2.4 Star Slots

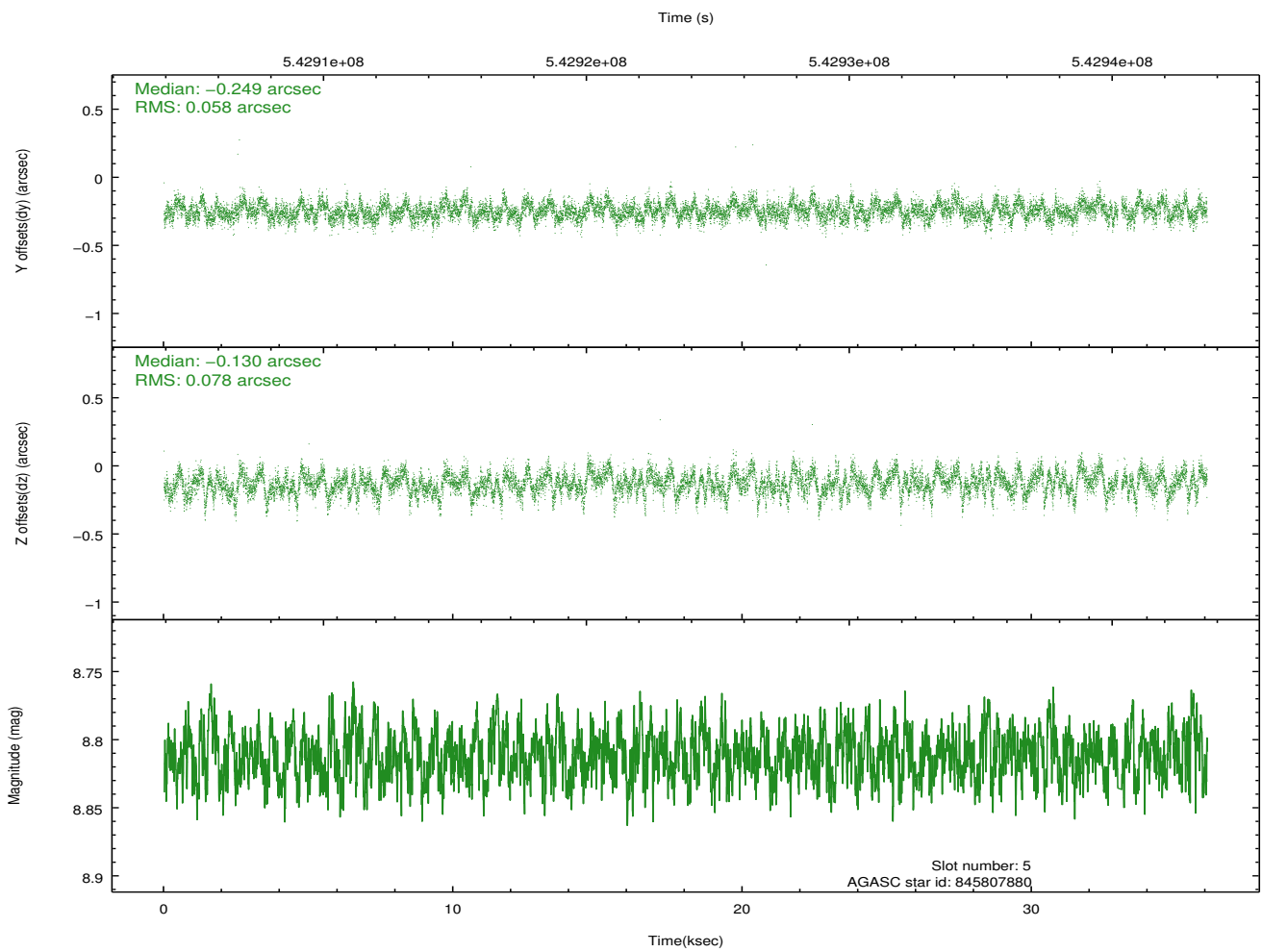
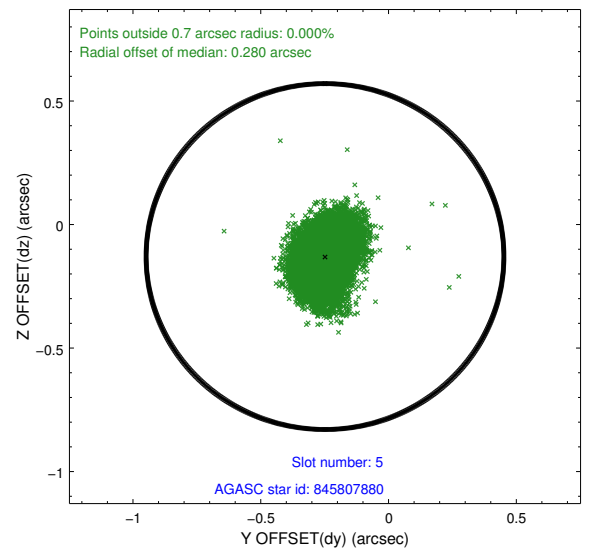
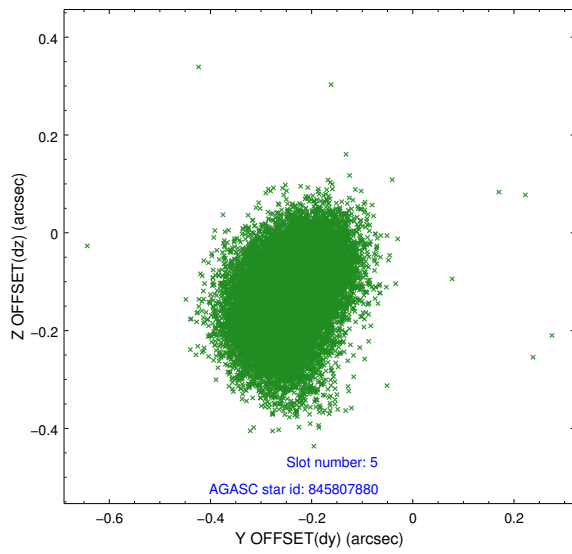
2.4.1 Slot 3



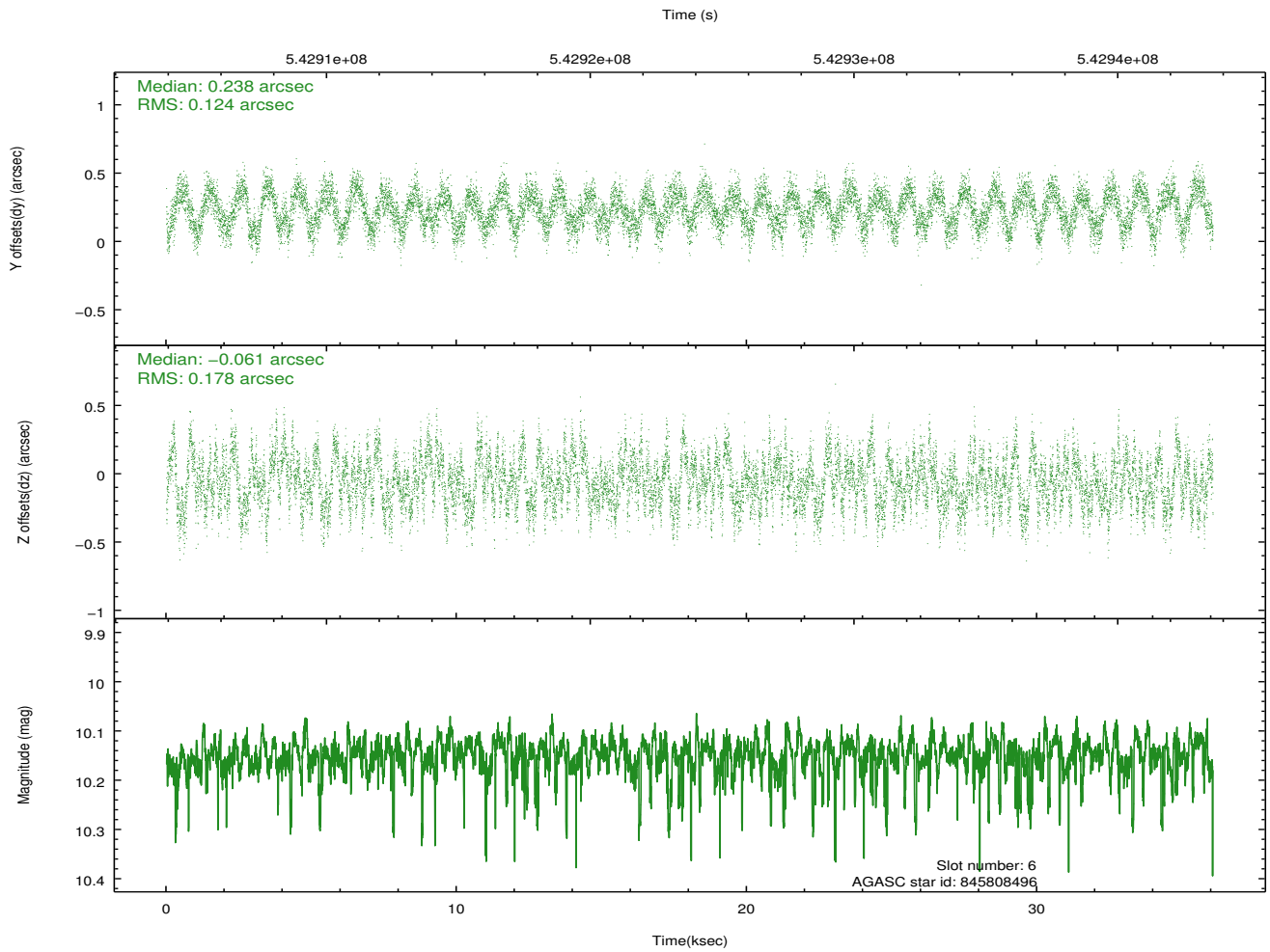
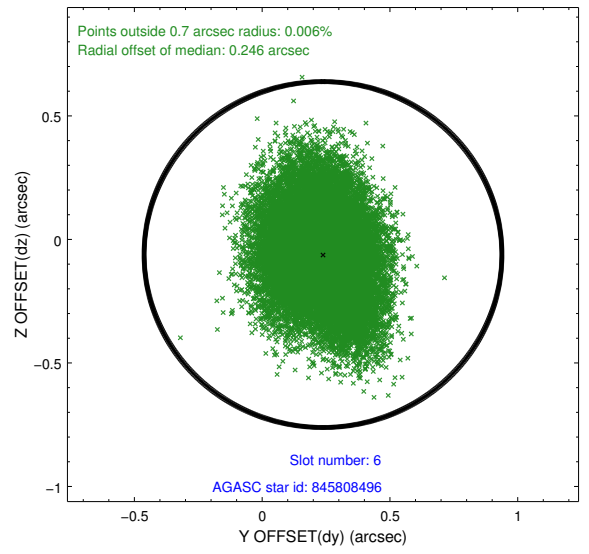
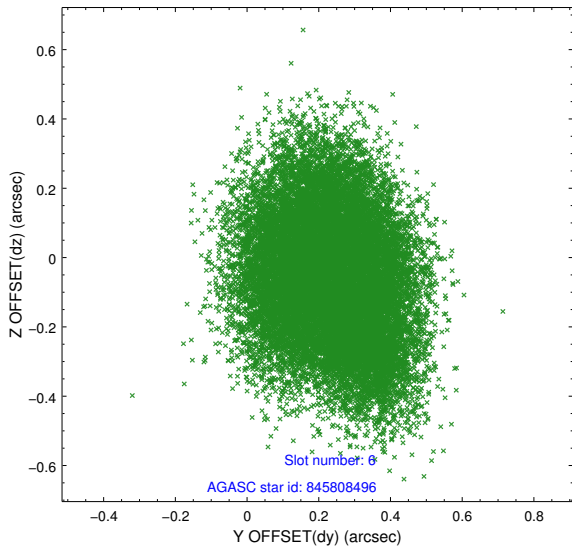
2.4.2 Slot 4



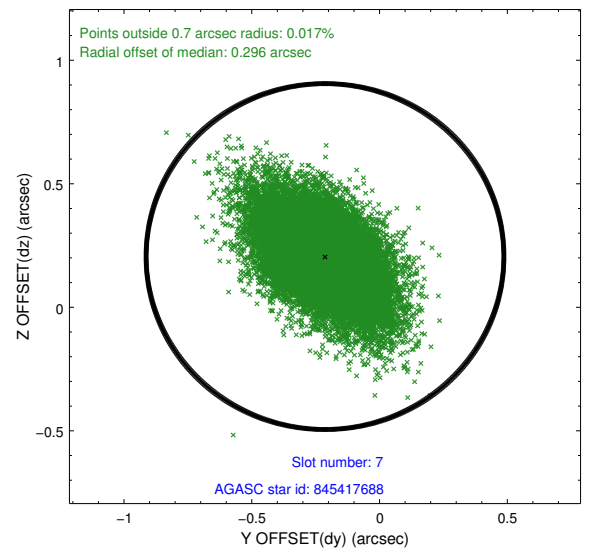
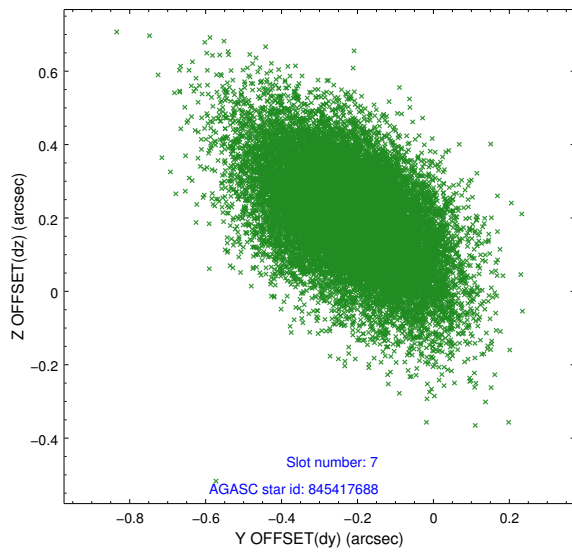
2.4.3 Slot 5



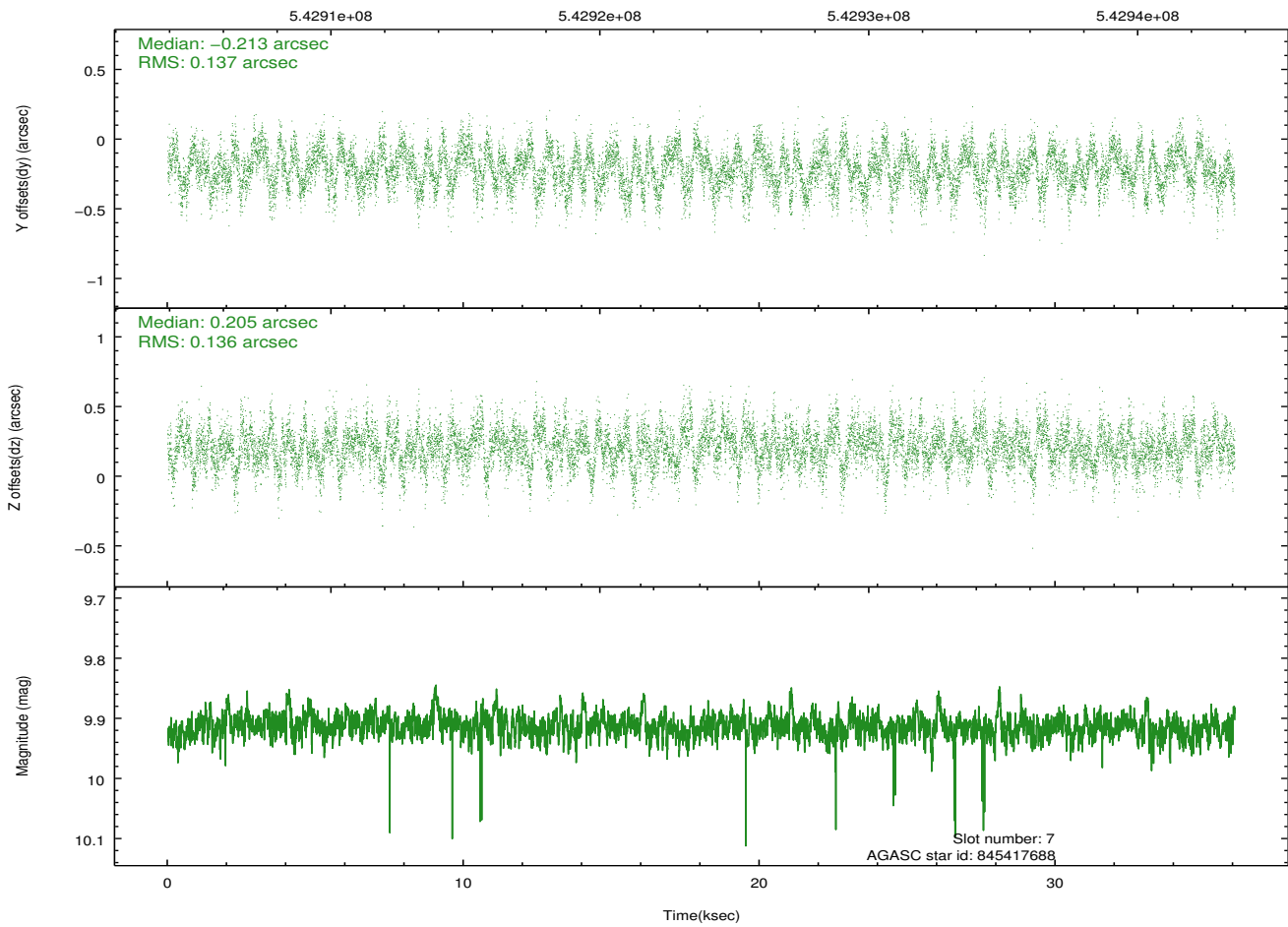
2.4.4 Slot 6



2.4.5 Slot 7

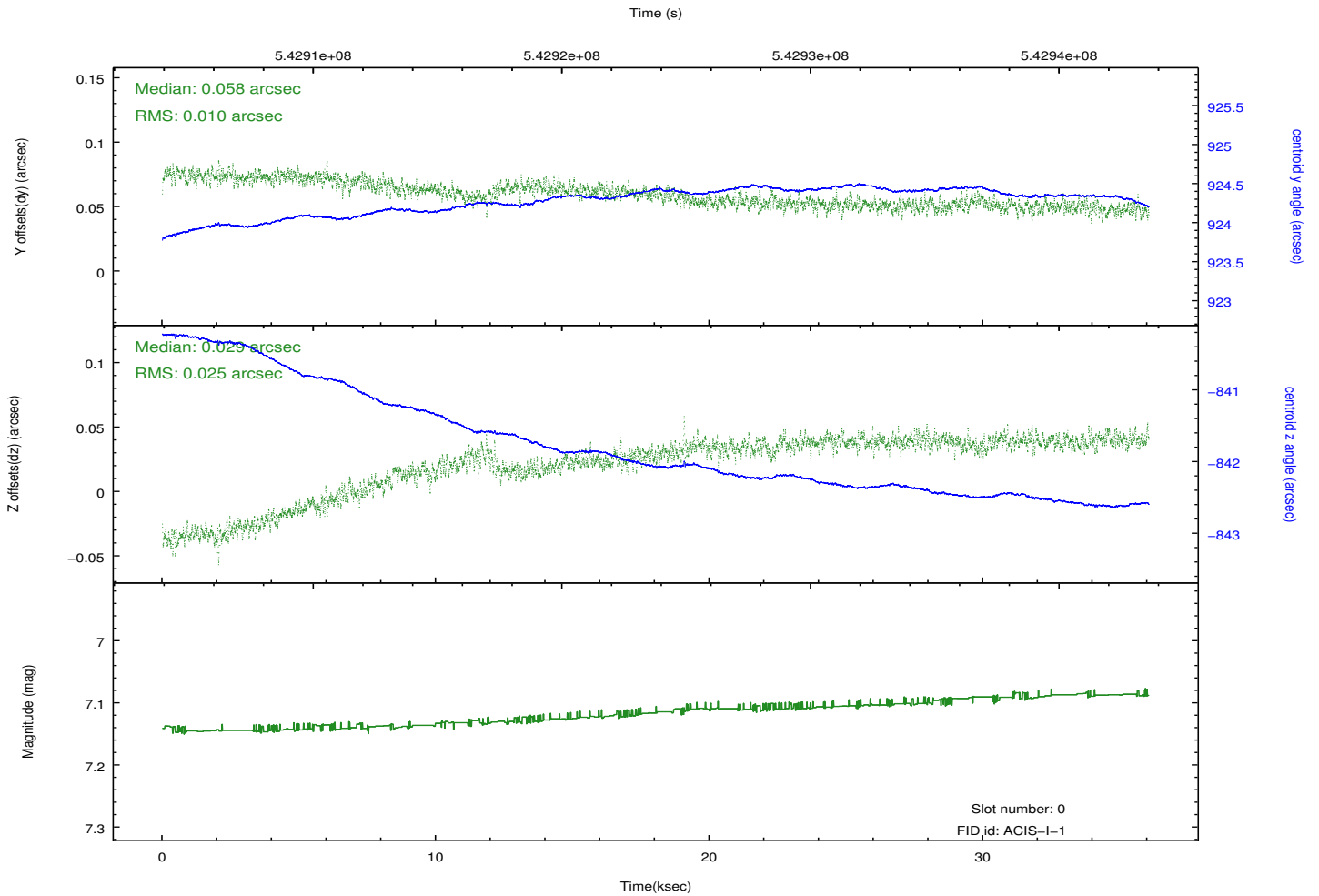
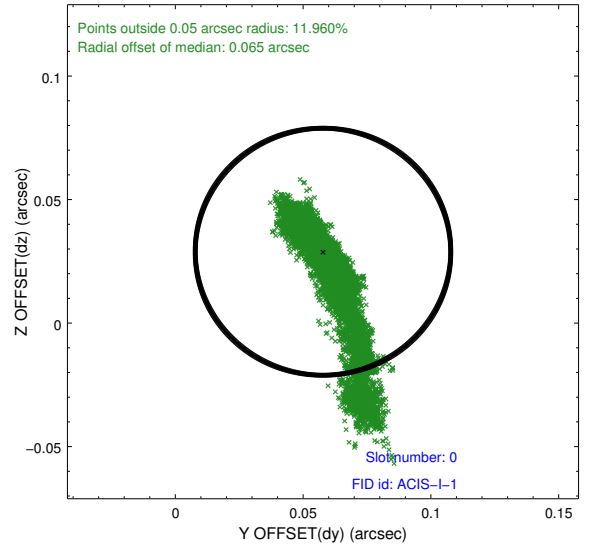
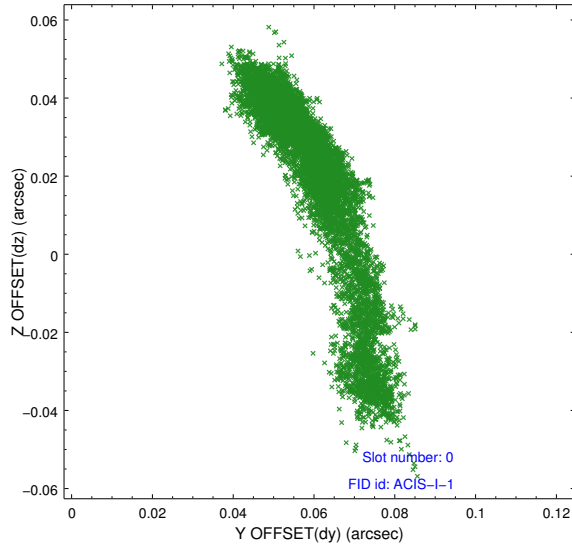


Time (s)

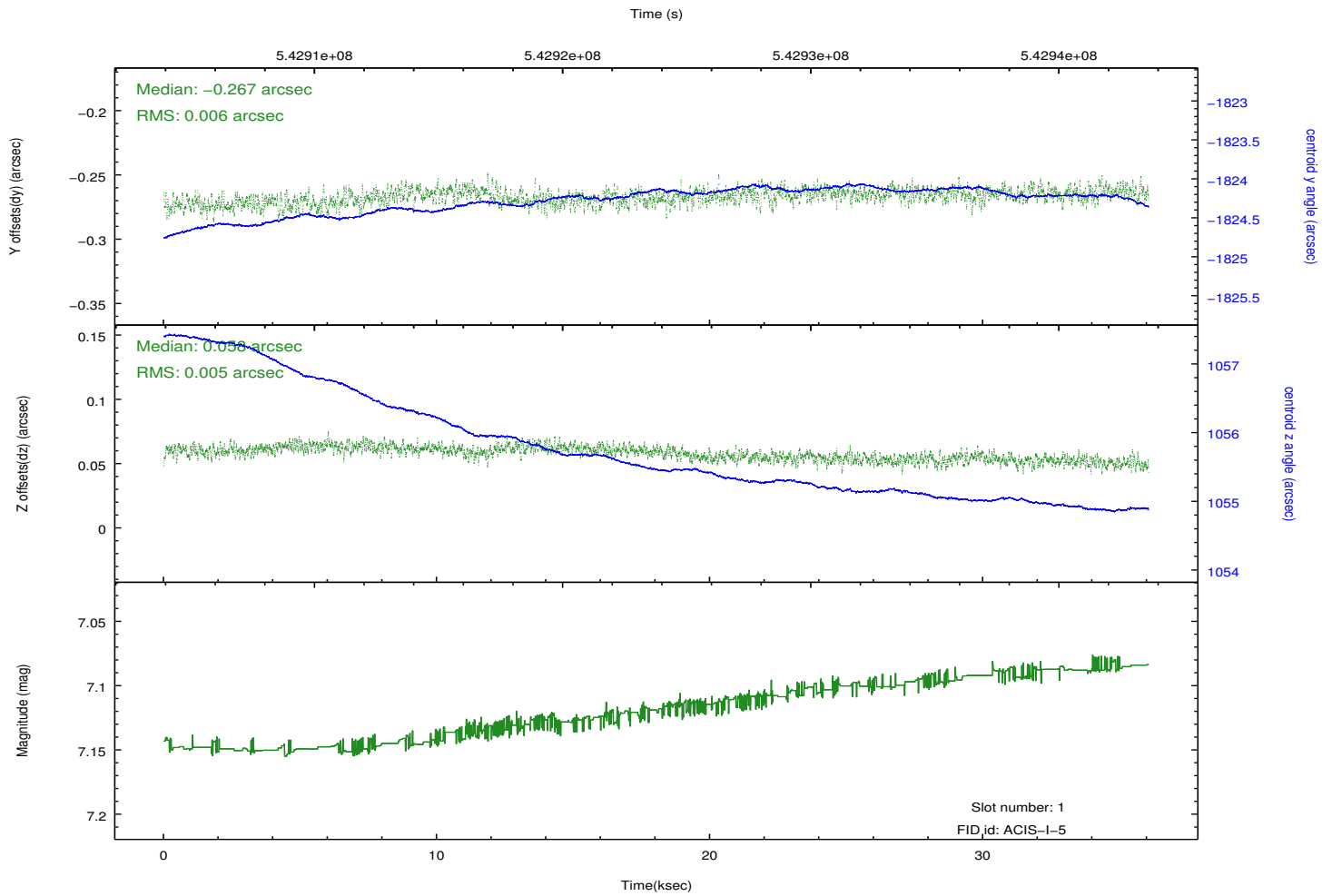
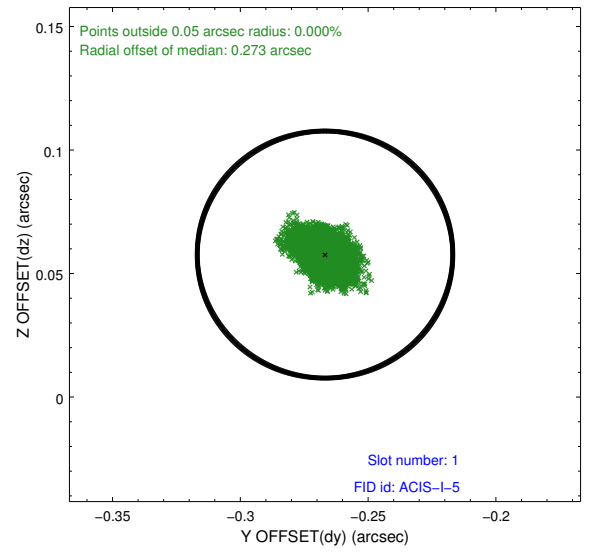
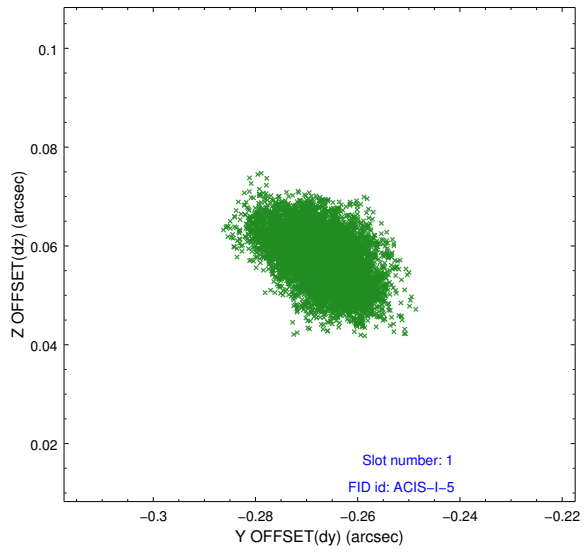


2.5 FID Slots

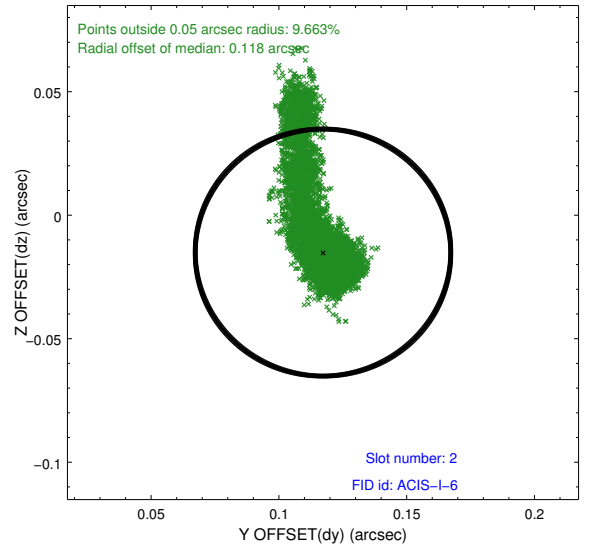
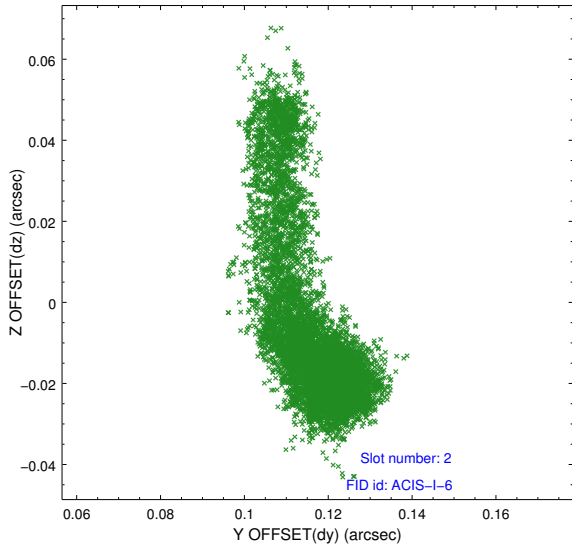
2.5.1 Slot 0



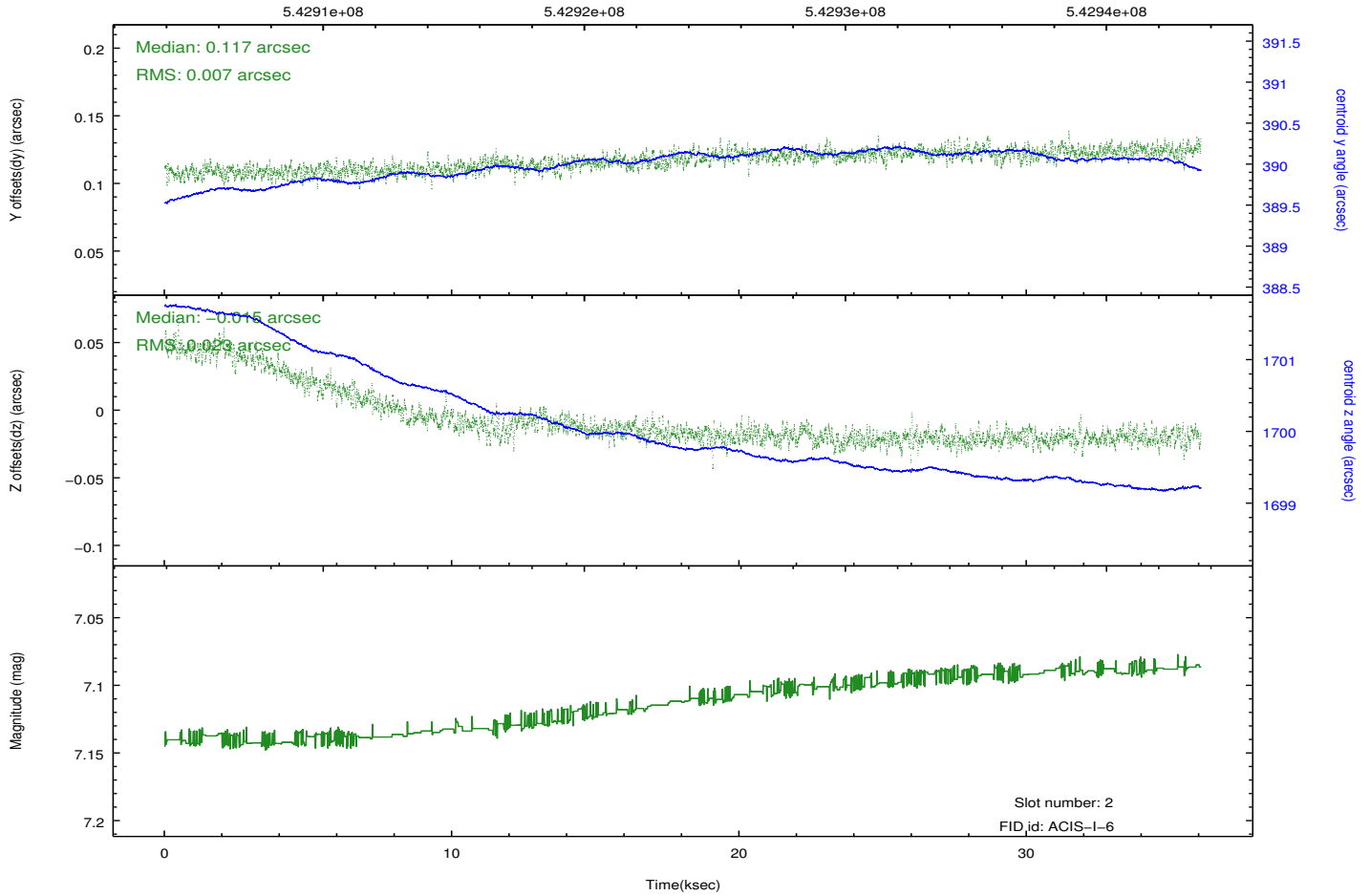
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.03.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.990565222263

A.2 Comments

Note: Node 3 of CCD 1 is high and shows as a bright band in the field image. This is a normal occurrence and is not a problem.

See 'Miscellaneous' Item #5 in the ACIS data caveats at

http://cxc.harvard.edu/ciao/caveats/acis_caveats_20111212.html>

(the high events all have ENERGY >8000 eV)