

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17255 - L2 Version 1
Chandra X-Ray Center

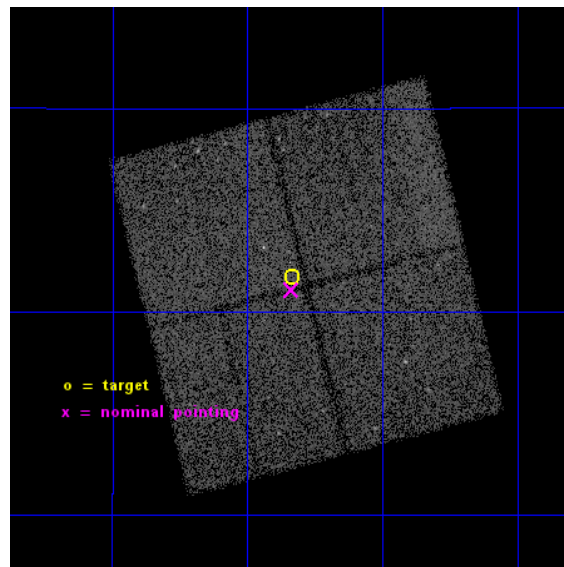
L2 Processing Date : May 18 2015

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1 Front

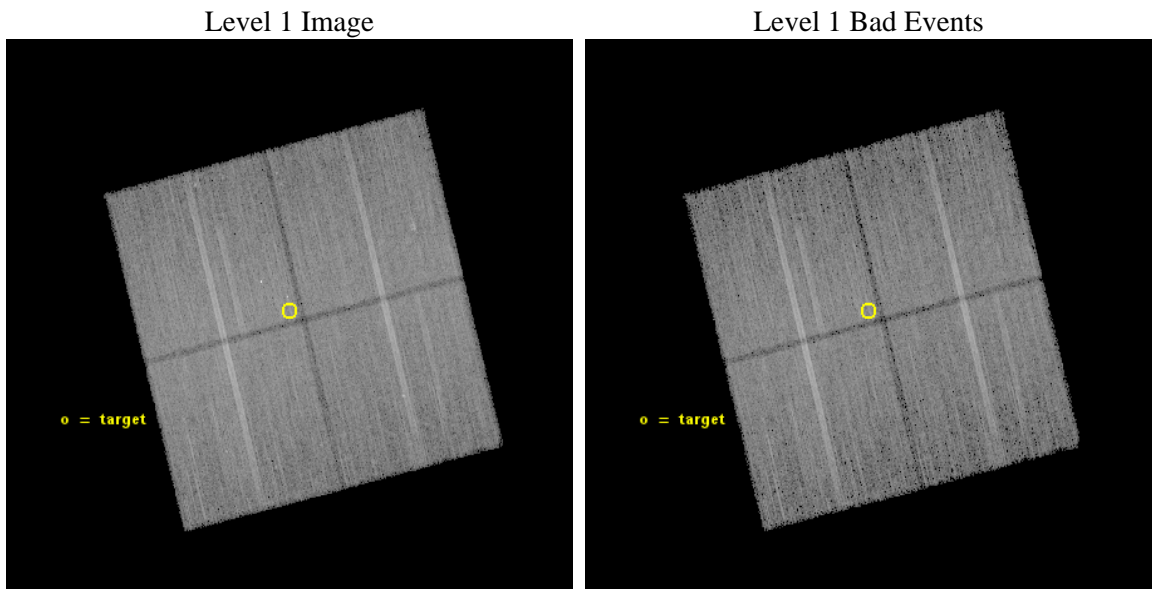
seq_num	201012	Sequence number
obs_id	17255	Observation id
title	The Chandra-Kepler Flare Survey	Proposal title
observer	Jeremy Drake	Principal investigator
object	Praesepe	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	129.958333	Observer's specified target RA [deg]
dec_targ	19.528056	Observer's specified target Dec [deg]
ra_nom	129.95924279938	Nominal RA [deg]
dec_nom	19.518062333376	Nominal Dec [deg]
roll_nom	255.83555024705	Nominal Roll [deg]
revision	1	Processing version of data
ontime	47867.059378147	Sum of GTIs [s]
livetime	47241.641008155	Livetime [s]
ontime0	47867.059397936	Sum of GTIs [s]
ontime1	47867.059398055	Sum of GTIs [s]
ontime2	47870.200368285	Sum of GTIs [s]
ontime3	47867.059378147	Sum of GTIs [s]
l2events	91539	Number of level 2 events



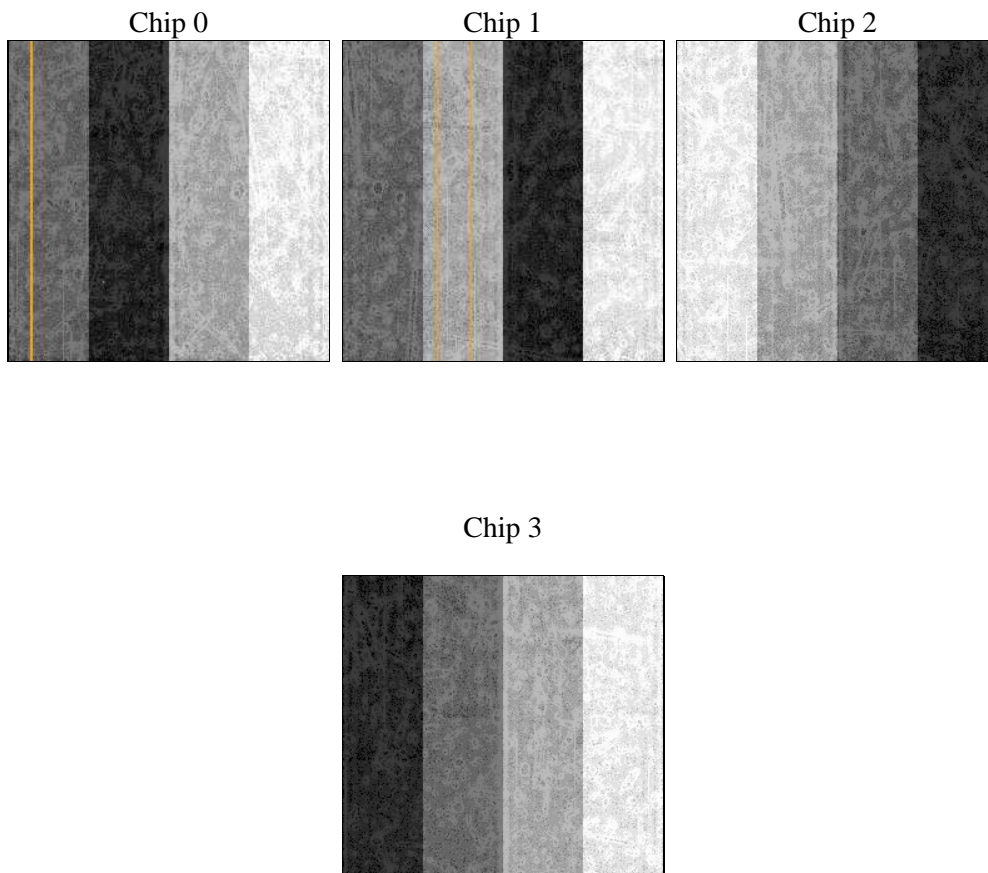
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	47782.119000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	47867.059378147	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	47867.059397936	Sum of GTIs [s]
date	2015-05-18T23:31:01	Date and time of file creation	ontime1	47867.059398055	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	47870.200368285	Sum of GTIs [s]
			ontime3	47867.059378147	Sum of GTIs [s]
			l1events	893899	Number of level 1 events

2.1.4 Events

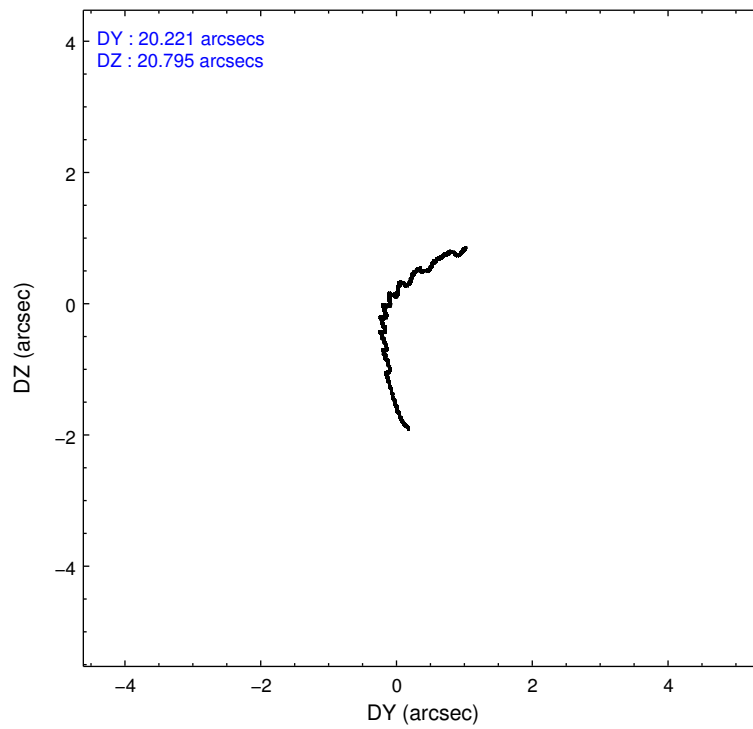
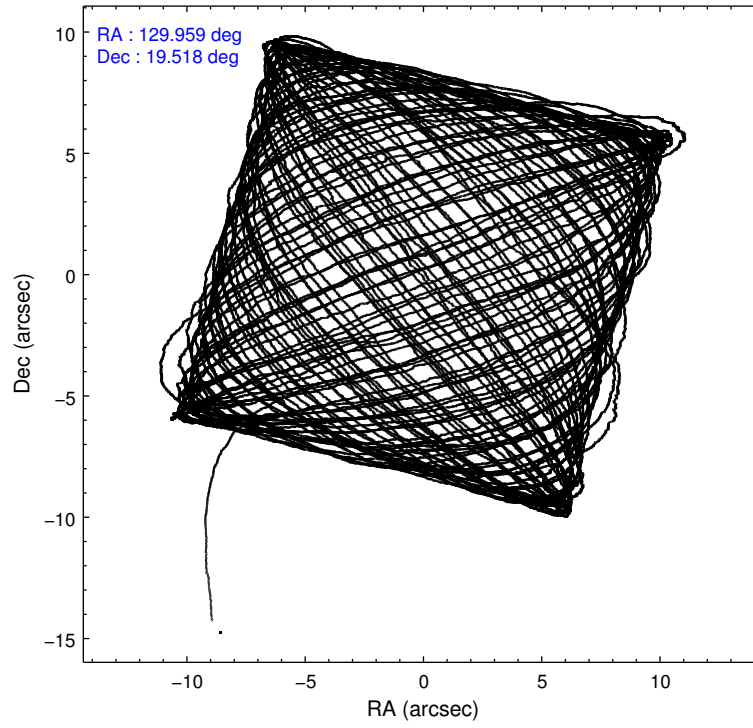
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	213637	219063	228504	232695
rejected events	186989	189260	202788	205159
rejected %	87%	86%	88%	88%

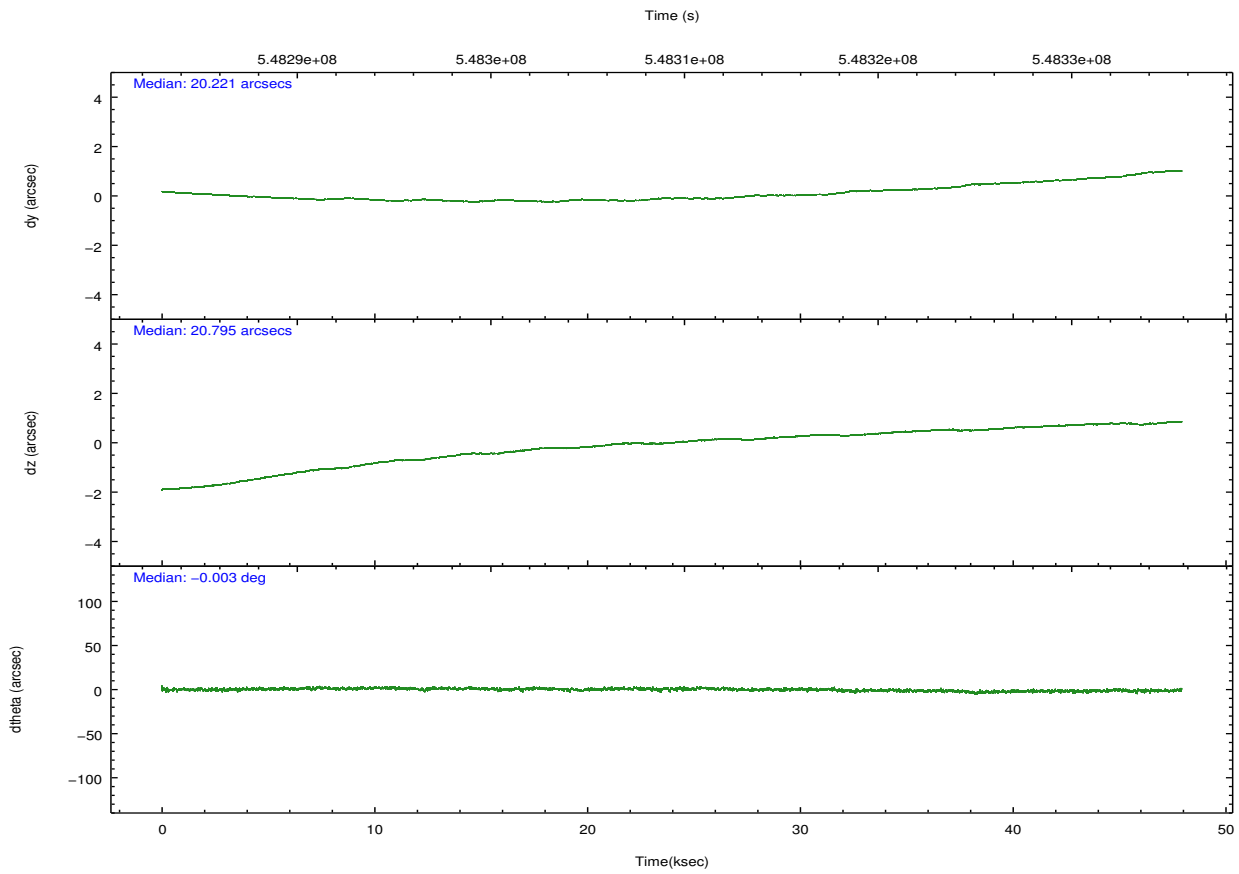
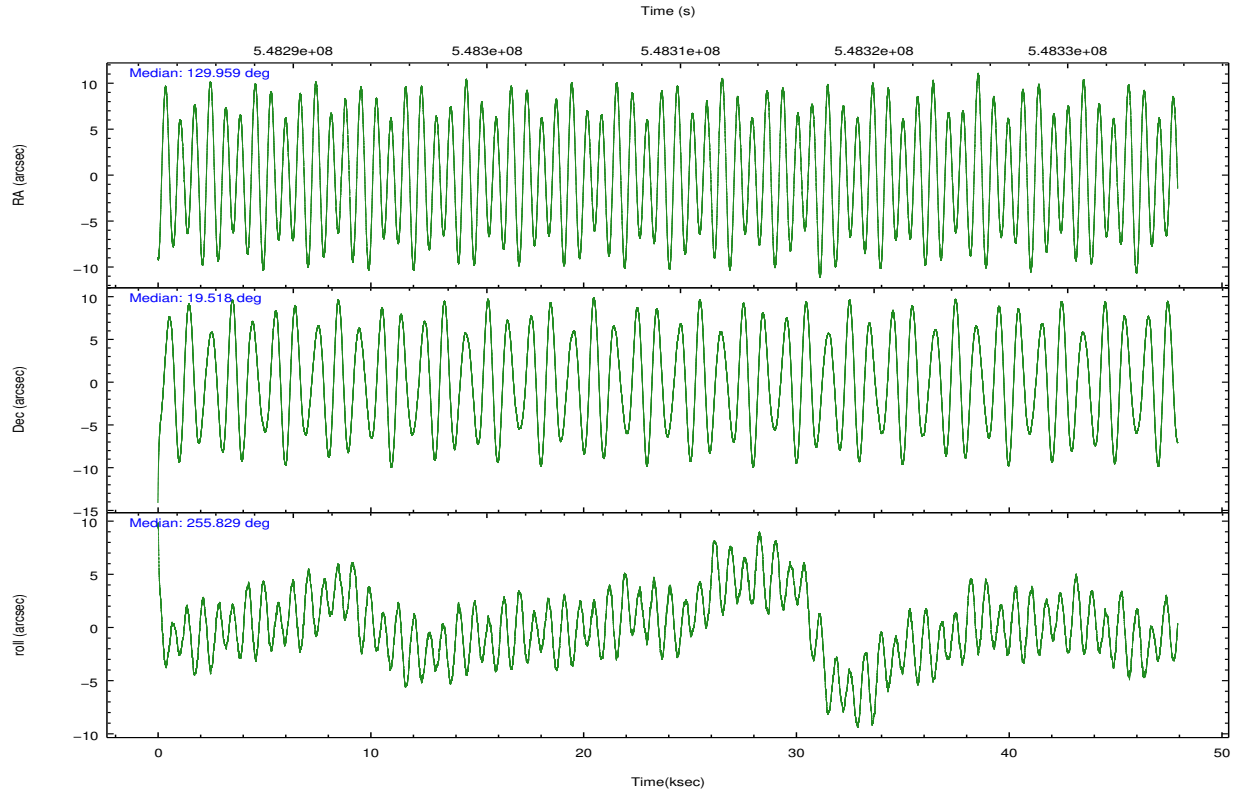
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9142	10380	8978	10652
	4%	4%	3%	4%
grade 1 events	105	125	115	135
	0%	0%	0%	0%
grade 2 events	6678	7291	6244	5858
	3%	3%	2%	2%
grade 3 events	2710	2843	2655	2743
	1%	1%	1%	1%
grade 4 events	2611	2834	2699	2803
	1%	1%	1%	1%
grade 5 events	10987	11309	9968	12164
	5%	5%	4%	5%
grade 6 events	5507	6457	5142	5481
	2%	2%	2%	2%
grade 7 events	175897	177824	192703	192859
	82%	81%	84%	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	129.951150	129.9592427993774	Subarray requested	NONE	NONE
[deg] Pointing Dec	19.544587	19.51806233337597	Alternating exposures requested	N	N
[deg] Pointing Roll	255.629570	255.8355502470457	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	546566467.184000	546566467.184000			
[s] Window stop time (MET)	550195267.184000	550195267.184000			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5899487761303			
[mm] SIM translation stage offset	0	-0.002504226799430853			
[s] Observation start time (MET)	548285512.184000	548284302.62604			
Observation start date	2015-05-17T21:30:45	2015-05-17T21:11:42			
[s] Observation end time (MET)	548333294.184000	548333531.3288			
Observation end date	2015-05-18T10:47:07	2015-05-18T10:52:11			
Read mode	TIMED	TIMED			

2.3 Aspect



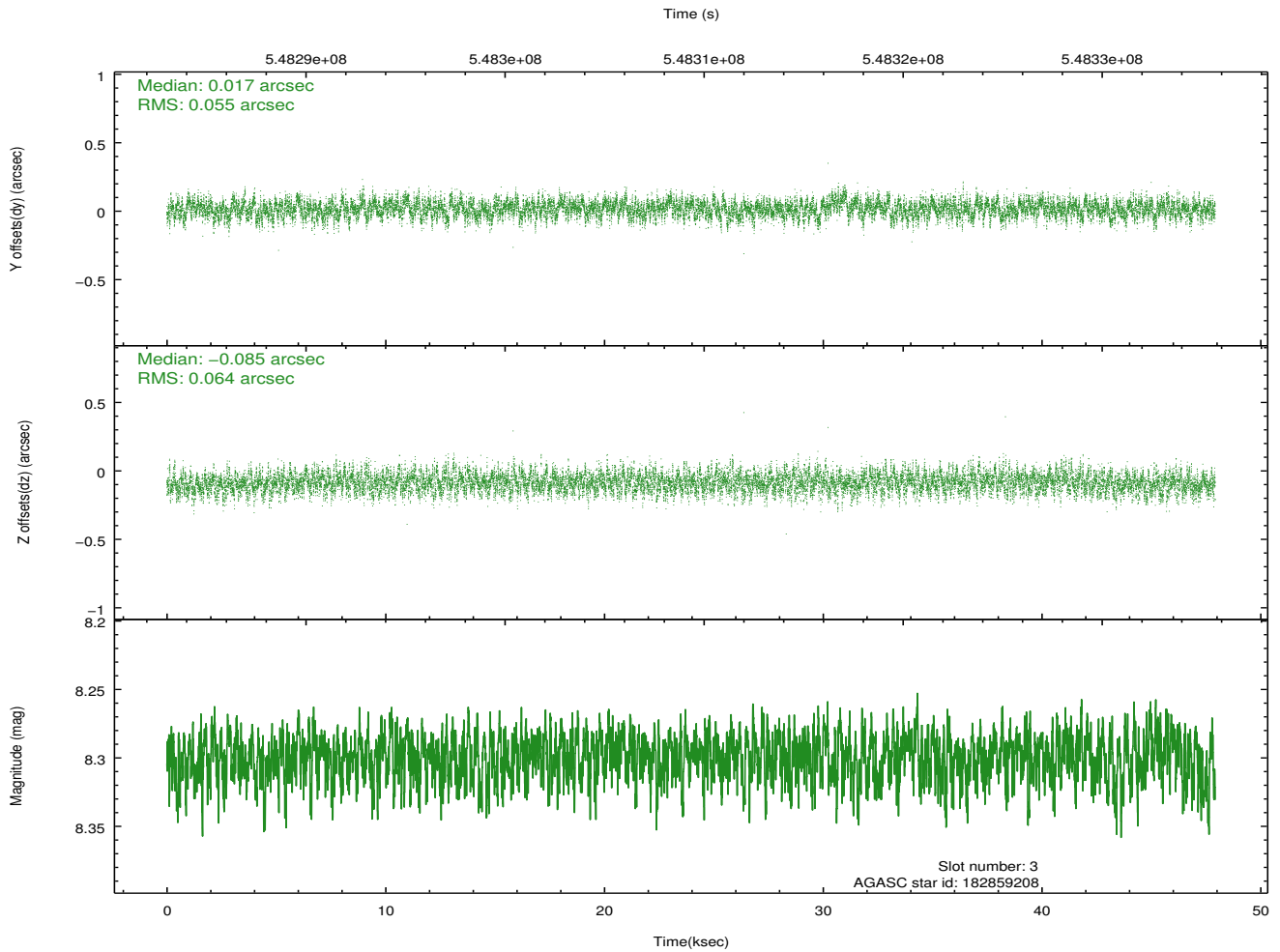
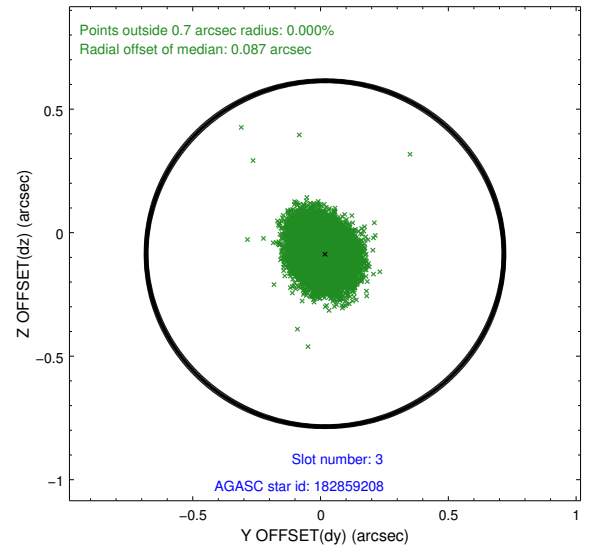
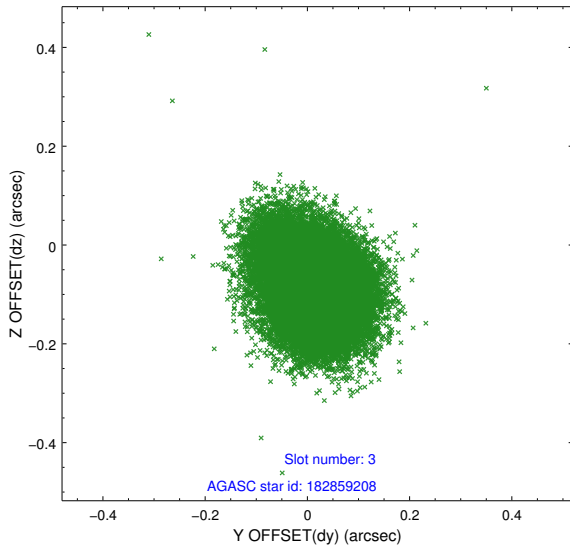


Slot Statistics

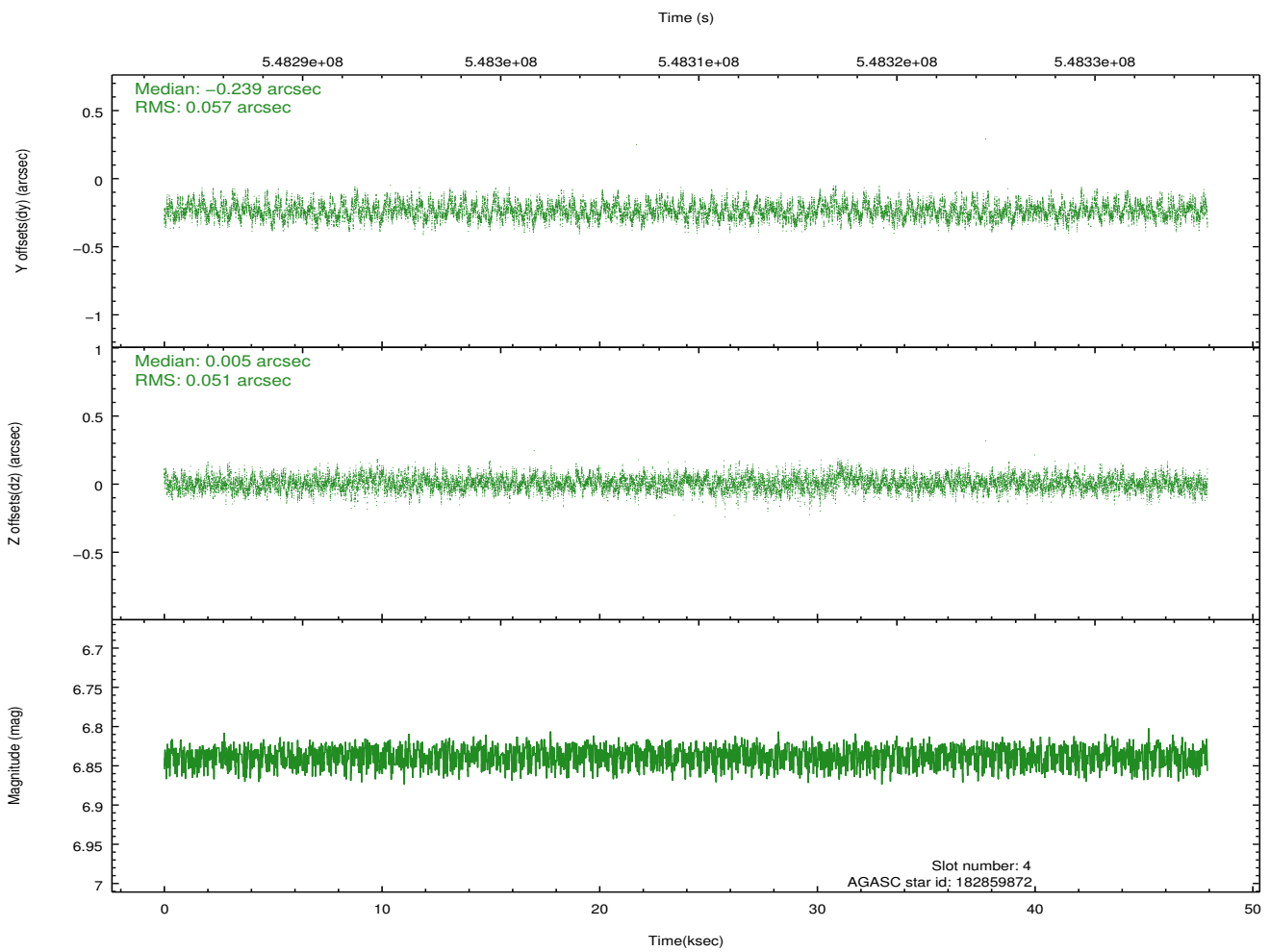
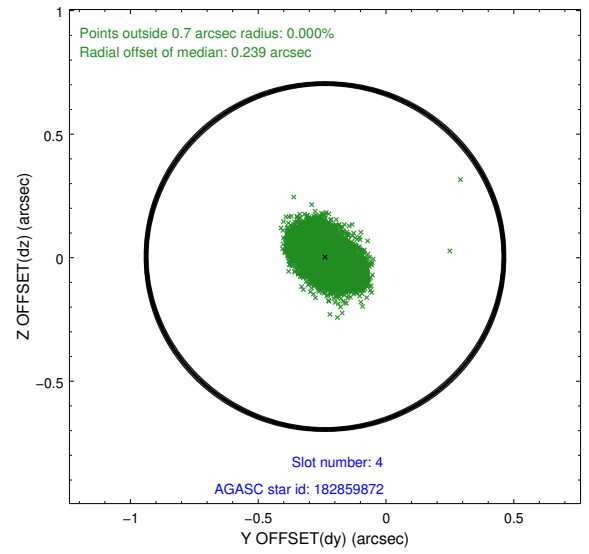
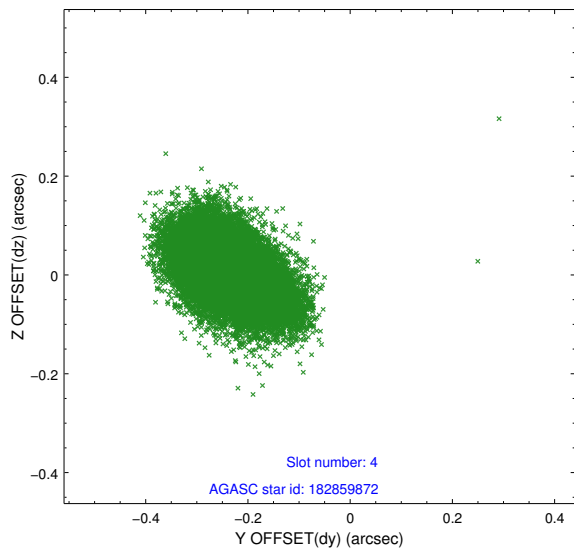
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.14	11687	-0.045	-0.053	0.026	0.090	0.000000	0.000000	918.94	-844.35
1	FID		ACIS-I-2	7.04	11689	-0.218	-0.076	0.015	0.051	0.000000	0.000000	-775.33	-850.85
2	FID		ACIS-I-4	7.06	11689	0.164	0.195	0.017	0.041	0.000000	0.000000	2139.02	1055.70
3	GUIDE	used	182859208	8.30	23374	0.017	-0.085	0.090	0.146	130.527074	19.411256	-23.13	2012.32
4	GUIDE	used	182859872	6.84	23378	-0.239	0.005	0.081	0.135	130.458669	19.874169	-1578.09	1369.13
5	GUIDE	used	182861632	7.07	23379	-0.040	-0.200	0.088	0.149	130.083935	19.348995	570.41	611.36
6	GUIDE	used	182863216	7.10	23380	0.240	0.003	0.100	0.169	129.444846	19.267218	1392.91	-1419.60
7	GUIDE	used	183240984	7.97	23371	0.018	0.279	0.080	0.129	129.596337	20.207321	-2014.37	-1753.21

2.4 Star Slots

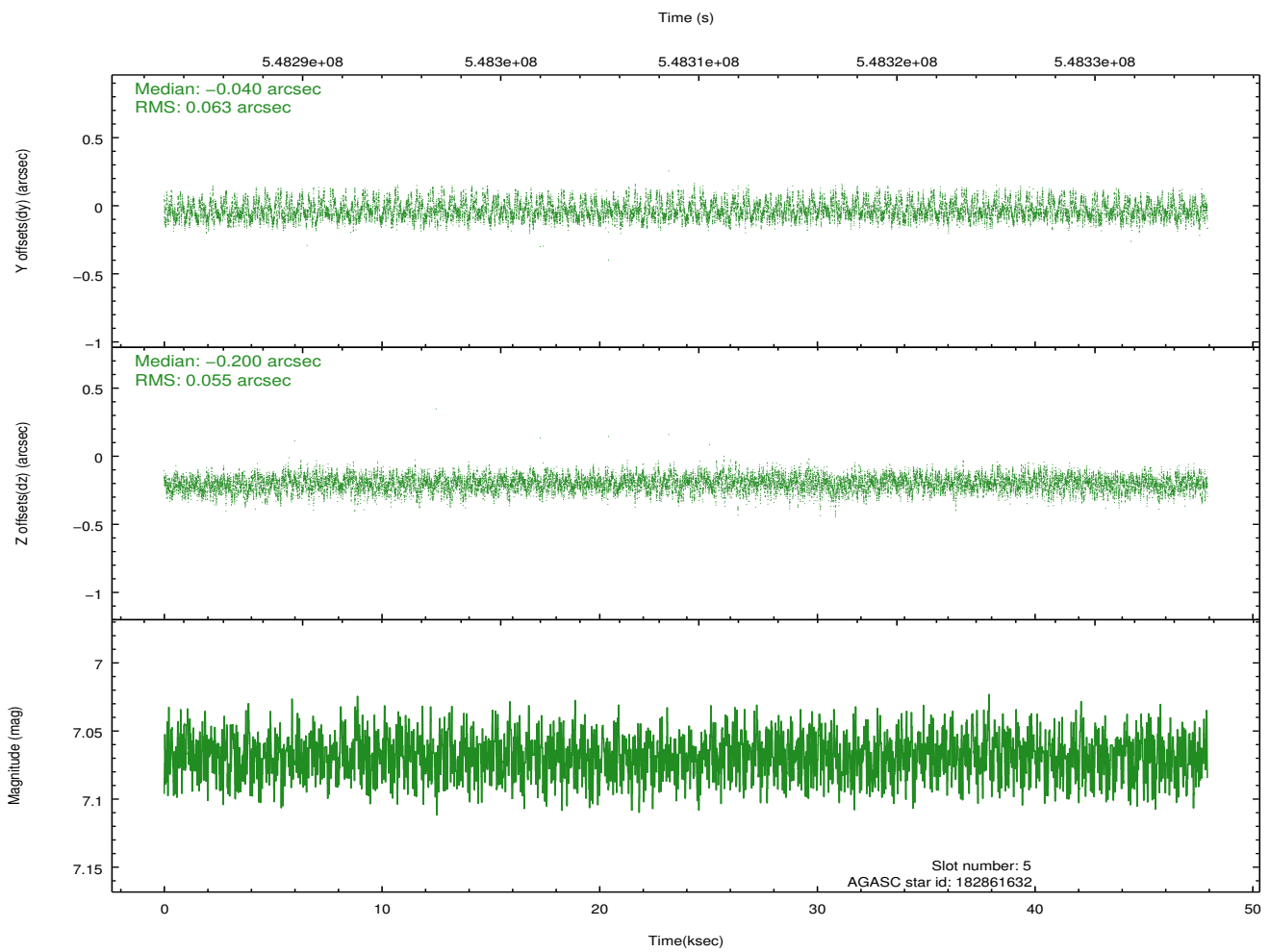
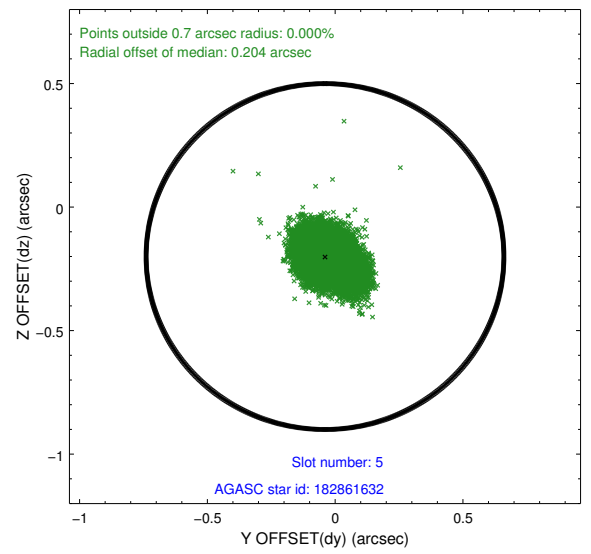
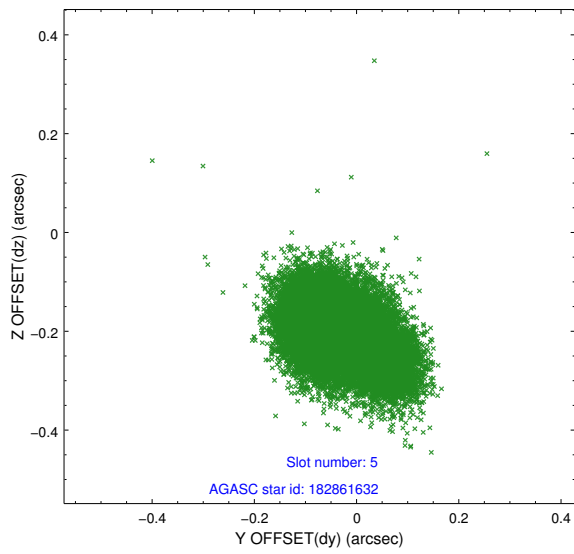
2.4.1 Slot 3



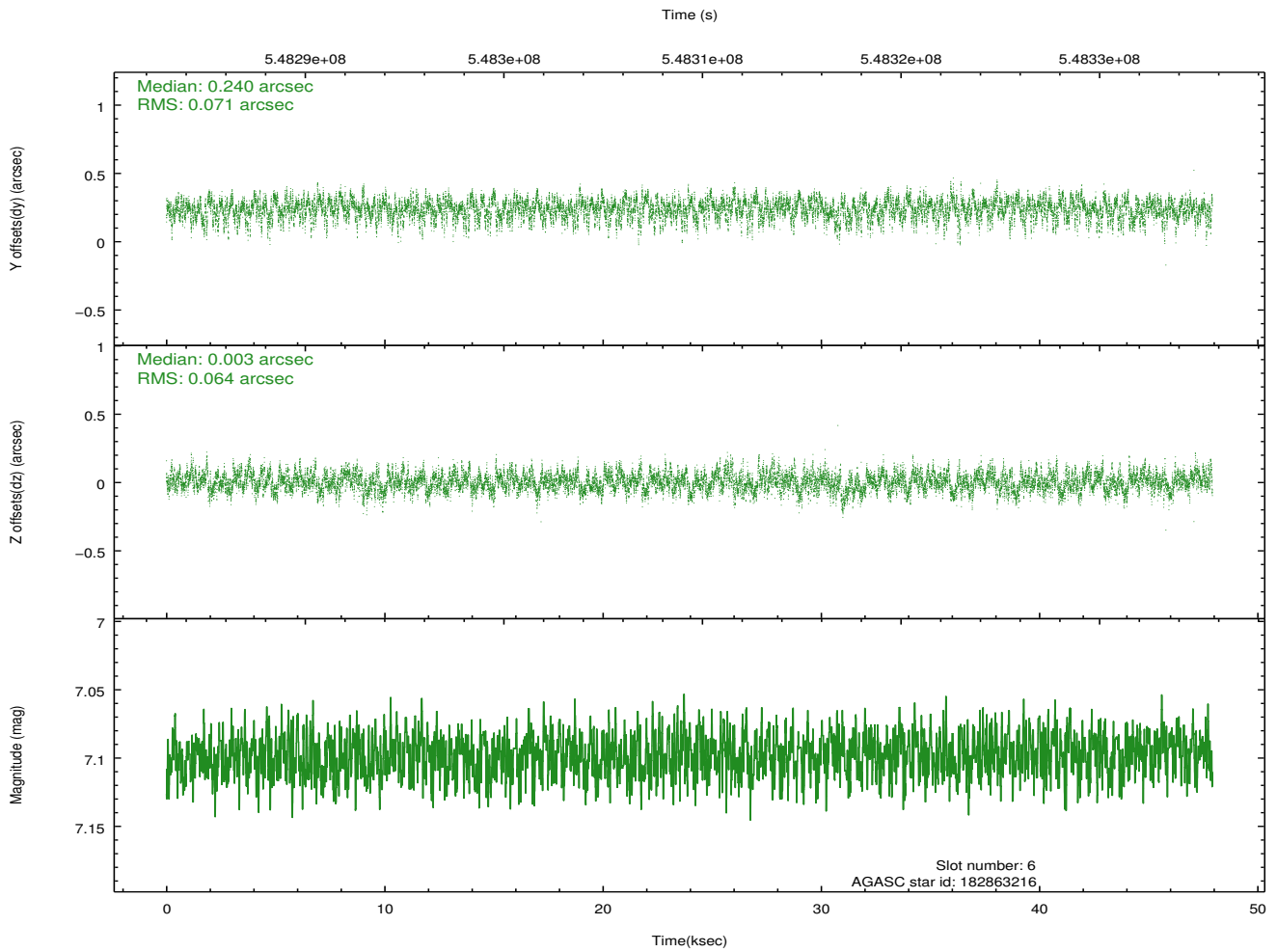
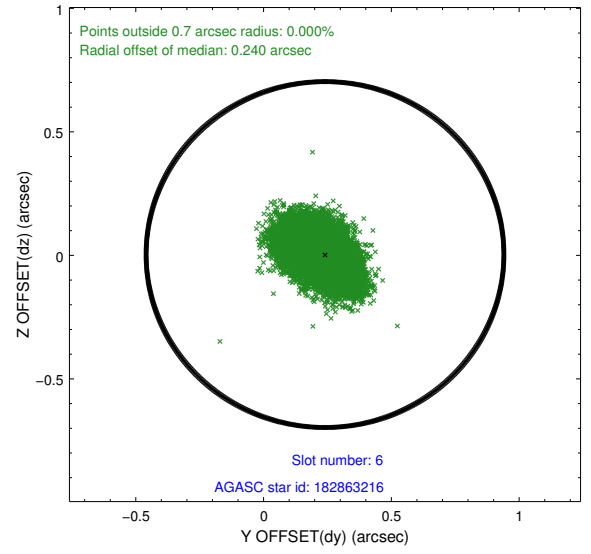
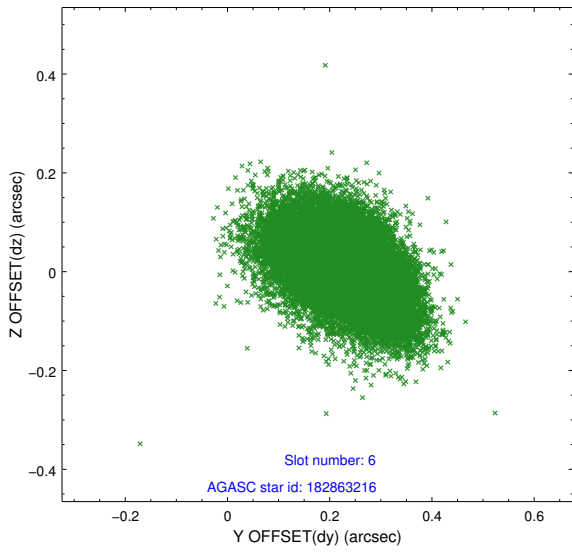
2.4.2 Slot 4



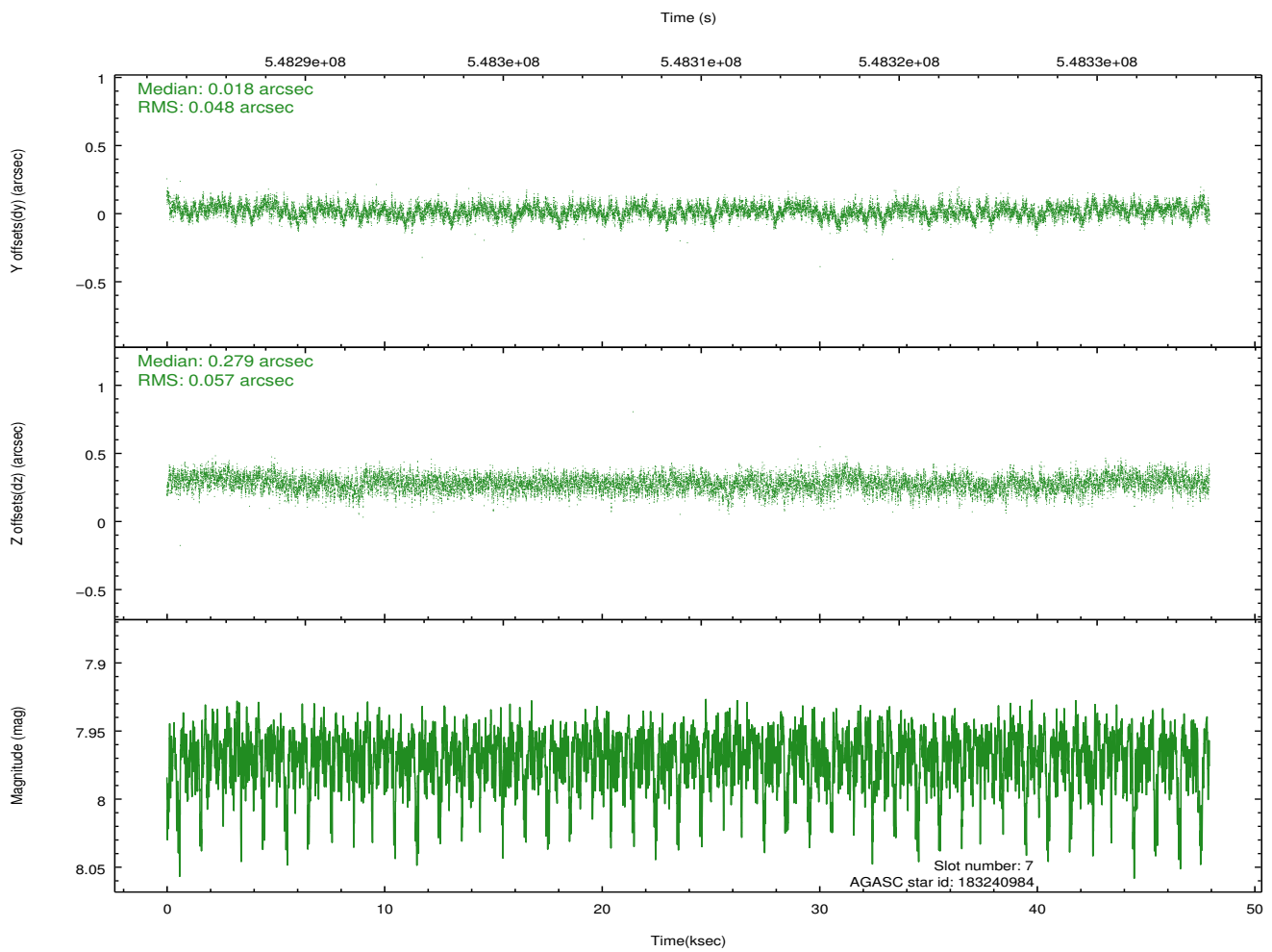
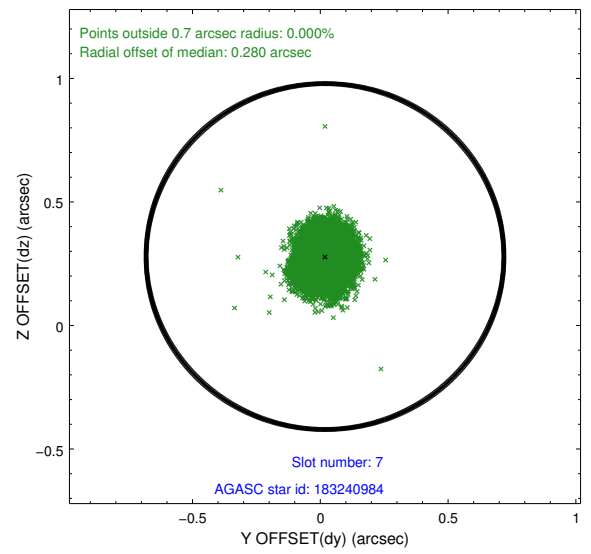
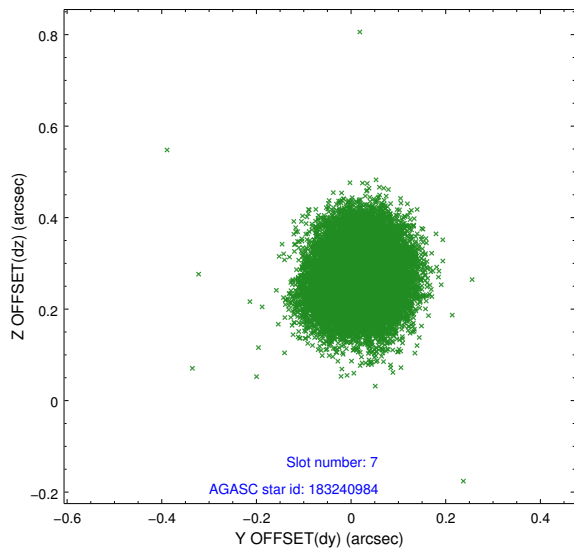
2.4.3 Slot 5



2.4.4 Slot 6

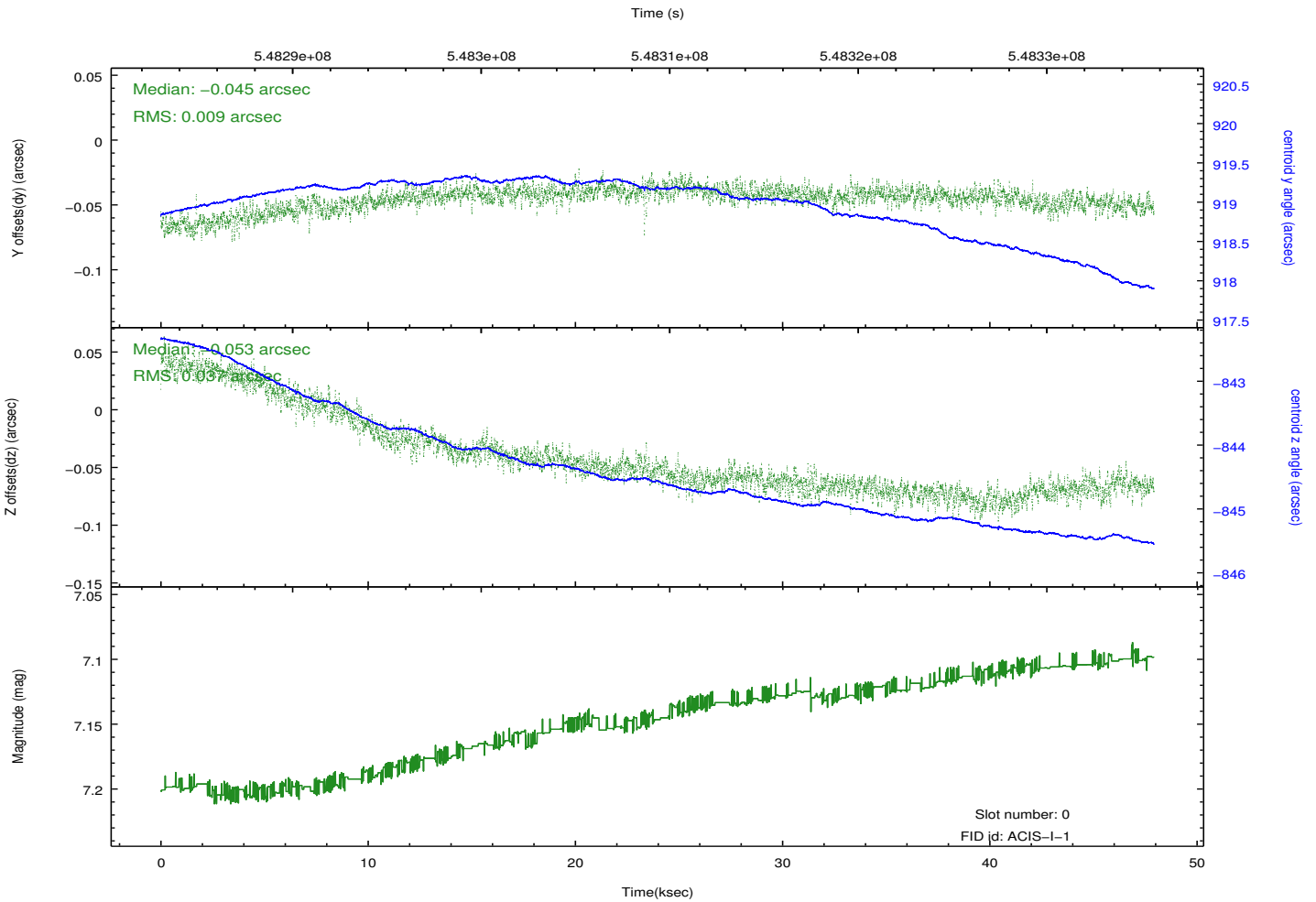
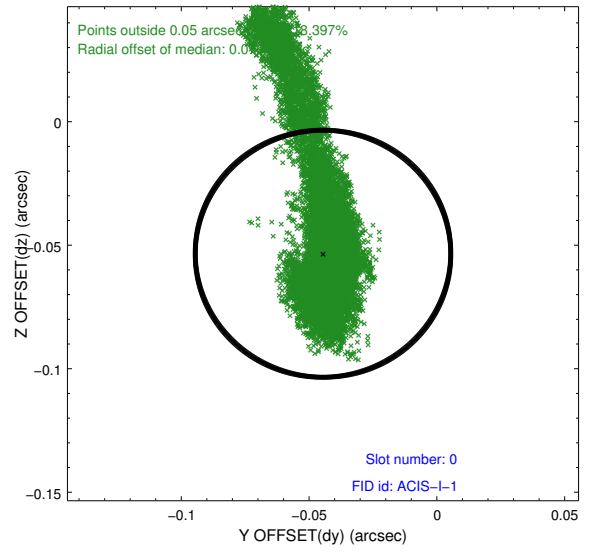
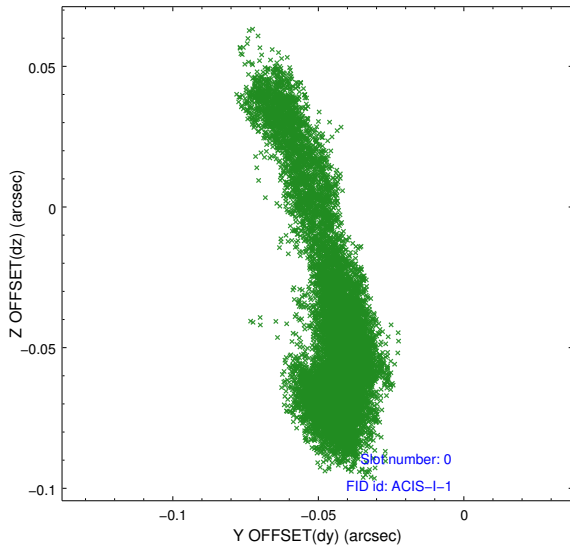


2.4.5 Slot 7

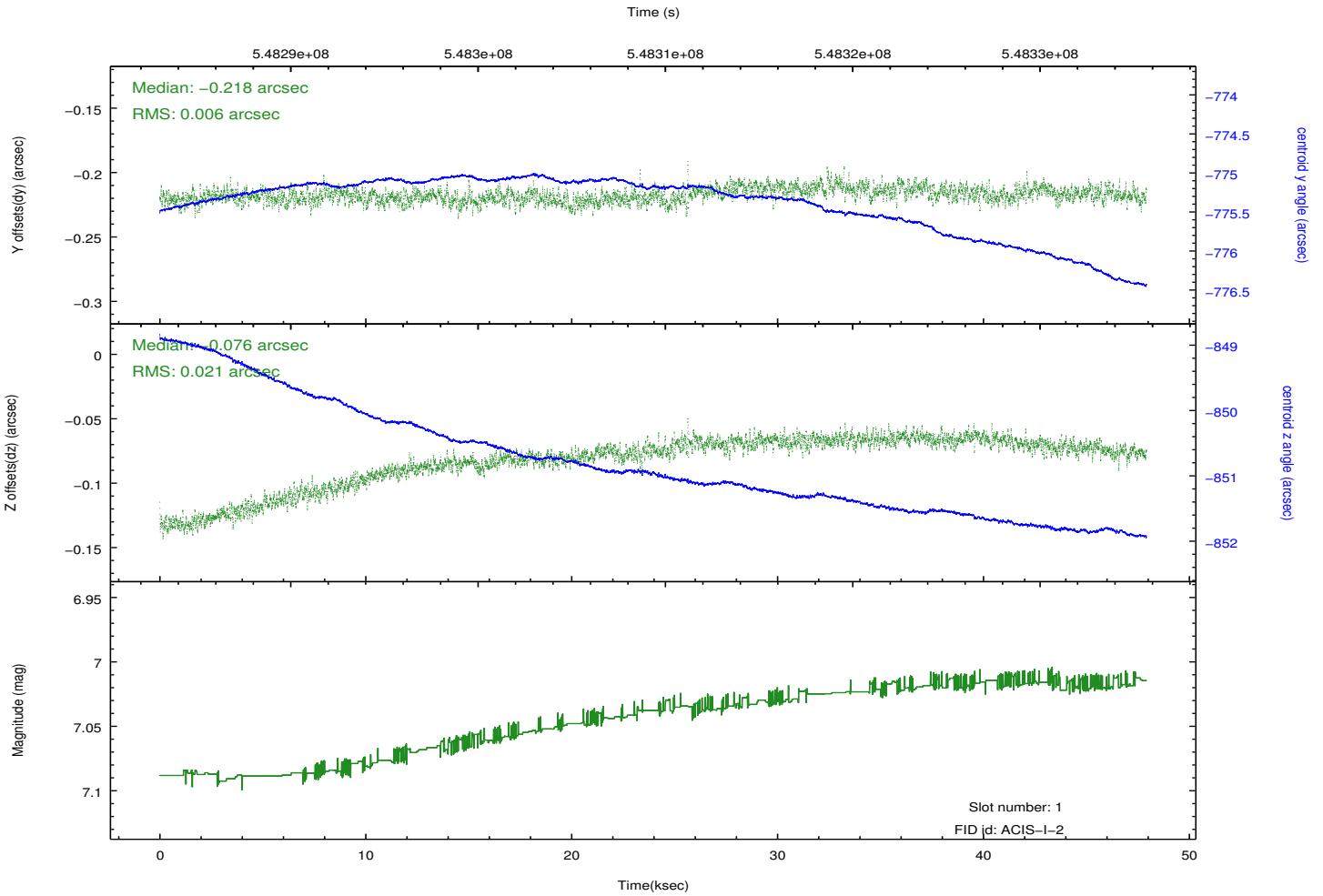
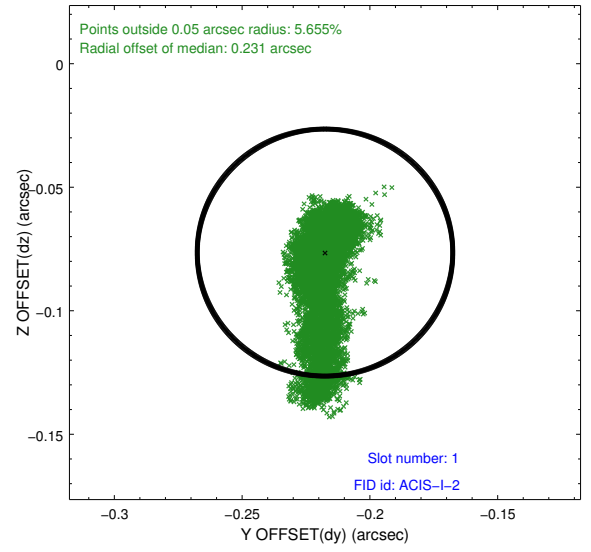
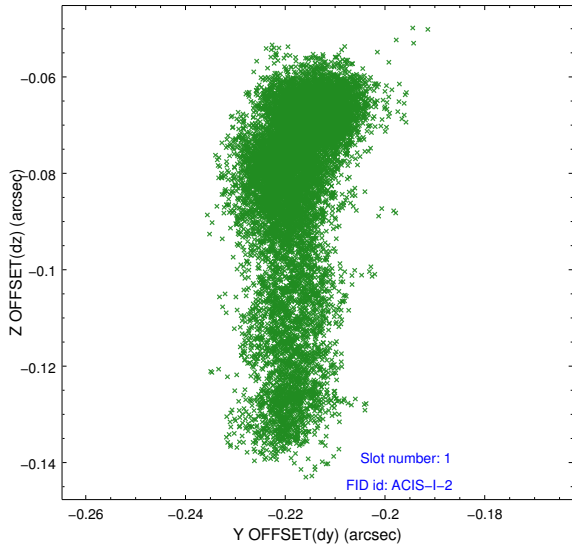


2.5 FID Slots

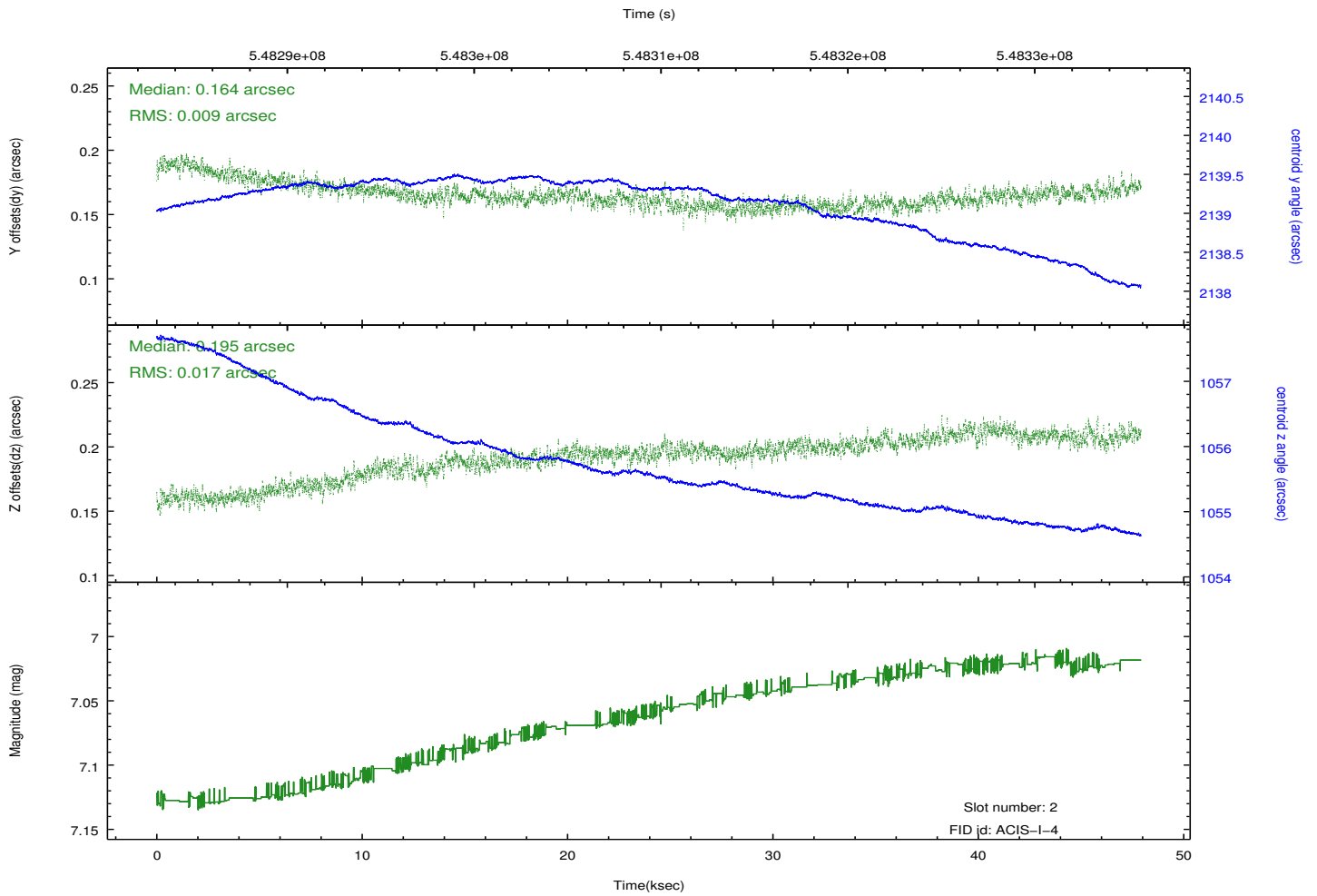
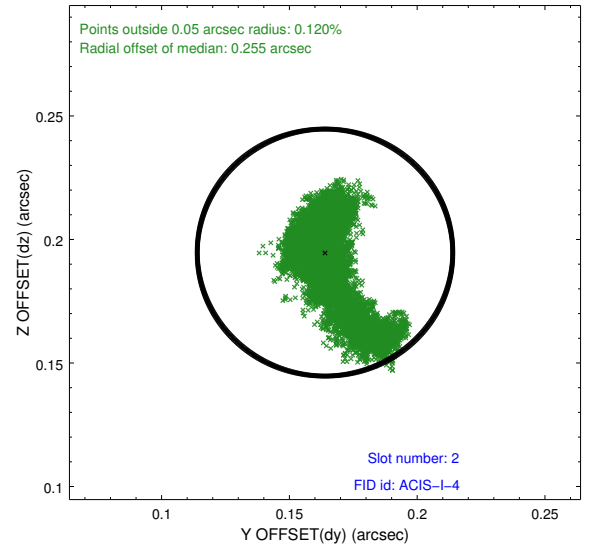
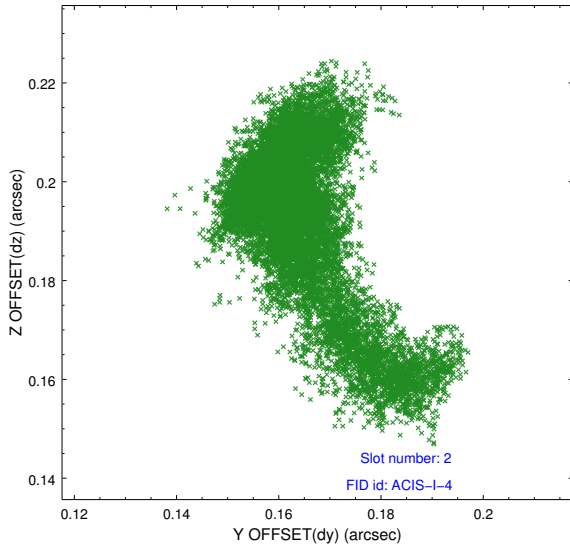
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.05.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	47.867059378147

A.2 Comments