

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12033 - L2 Version 2
Chandra X-Ray Center

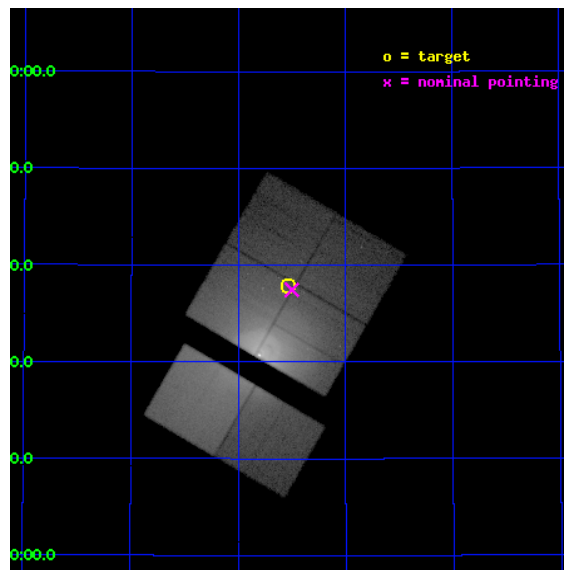
L2 Processing Date : Jun 17 2012

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1 Front

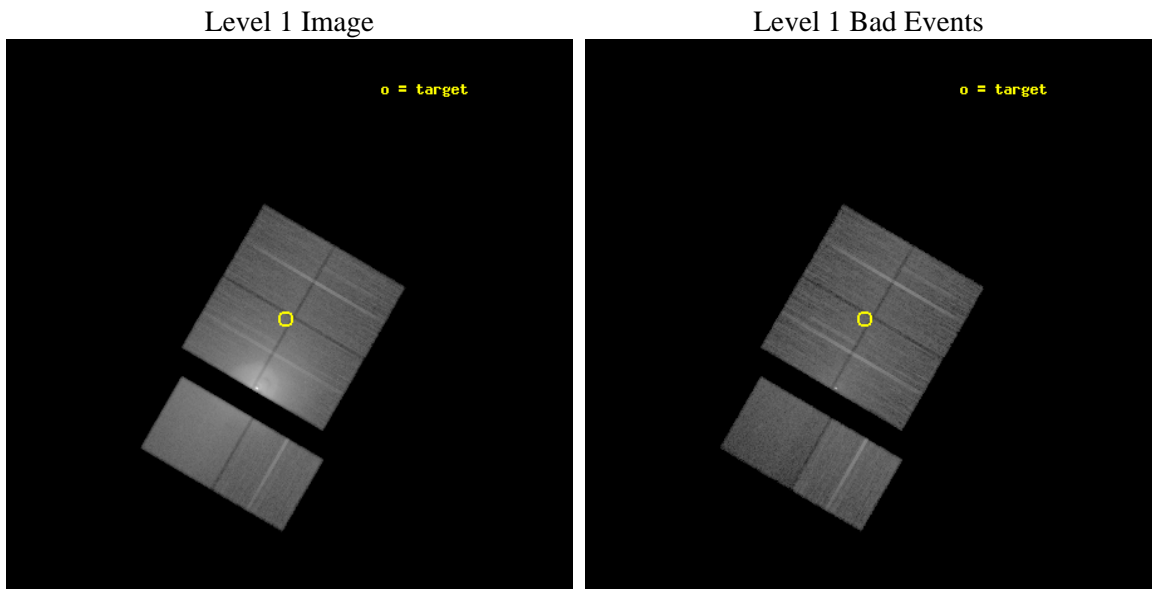
seq_num	800855	Sequence number
obs_id	12033	Observation id
title	Extending the Deep Image of the Perseus Cluster: The Outer Bubbles, Filaments and Ripples	Proposal title
observer	Professor Andrew Fabian	Principal investigator
object	Perseus cluster, Abell 426	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	49.8825	Observer's specified target RA [deg]
dec_targ	41.630278	Observer's specified target Dec [deg]
ra_nom	49.87520996499	Nominal RA [deg]
dec_nom	41.624319816764	Nominal Dec [deg]
roll_nom	210.21349927757	Nominal Roll [deg]
revision	2	Processing version of data
ontime	19129.599928796	Sum of GTIs [s]
livetime	18887.369416036	Livetime [s]
ontime0	19129.599928796	Sum of GTIs [s]
ontime1	19129.599928796	Sum of GTIs [s]
ontime2	19129.599928796	Sum of GTIs [s]
ontime3	19129.599928796	Sum of GTIs [s]
ontime6	19129.599928796	Sum of GTIs [s]
ontime7	19129.599928796	Sum of GTIs [s]
l2events	1099018	Number of level 2 events



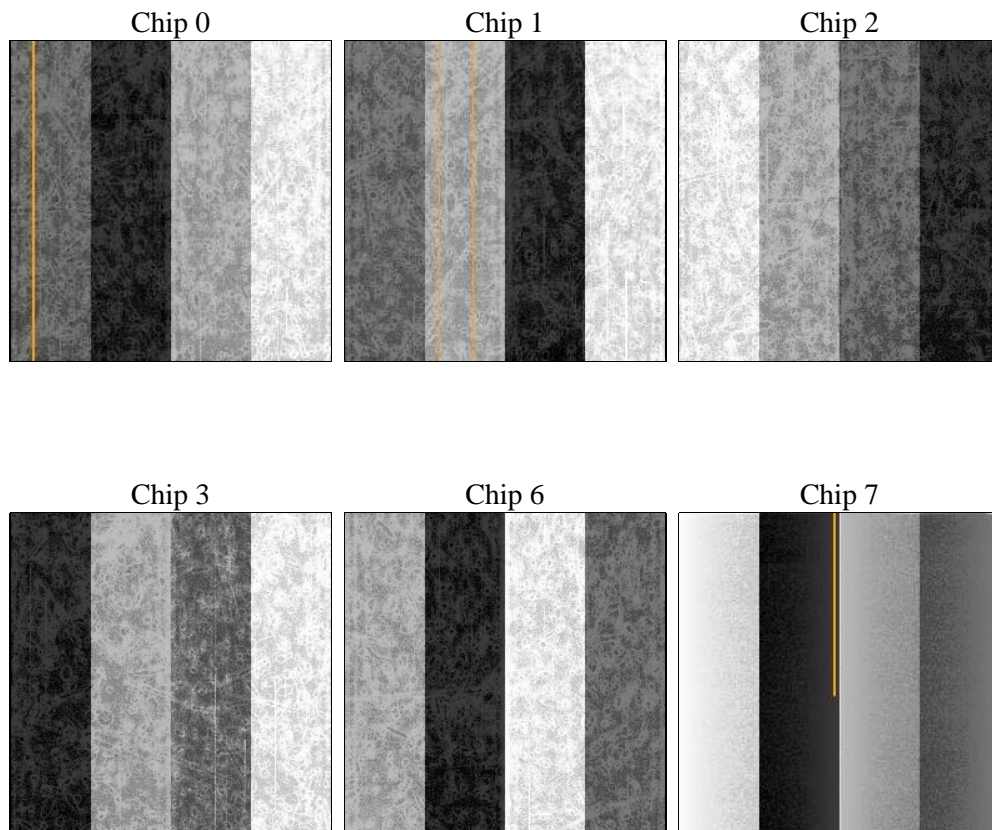
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	19000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	19129.599928796	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	19129.599928796	Sum of GTIs [s]
date	2012-06-17T06:47:36	Date and time of file creation	ontime1	19129.599928796	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	19129.599928796	Sum of GTIs [s]
			ontime3	19129.599928796	Sum of GTIs [s]
			ontime6	19129.599928796	Sum of GTIs [s]
			ontime7	19129.599928796	Sum of GTIs [s]
			l1events	2047492	Number of level 1 events

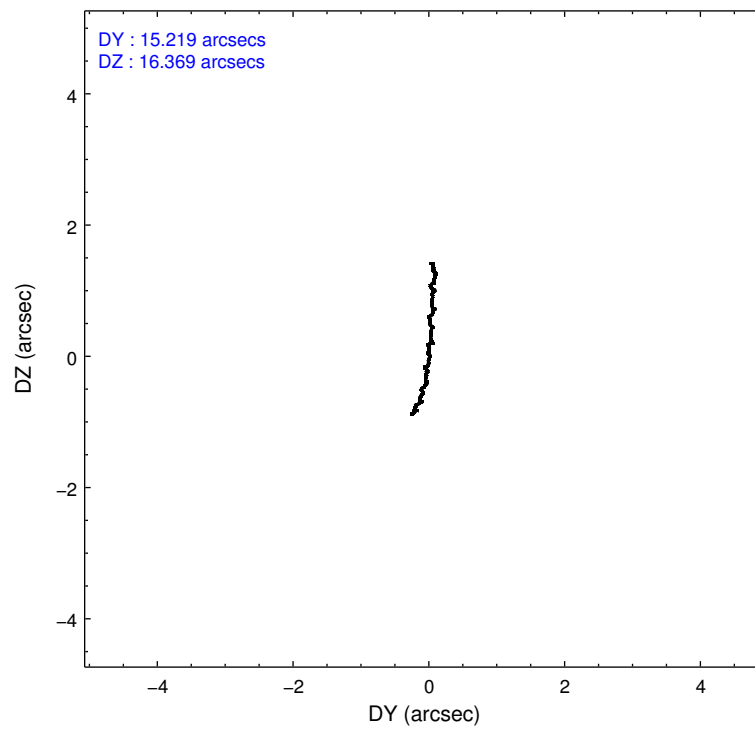
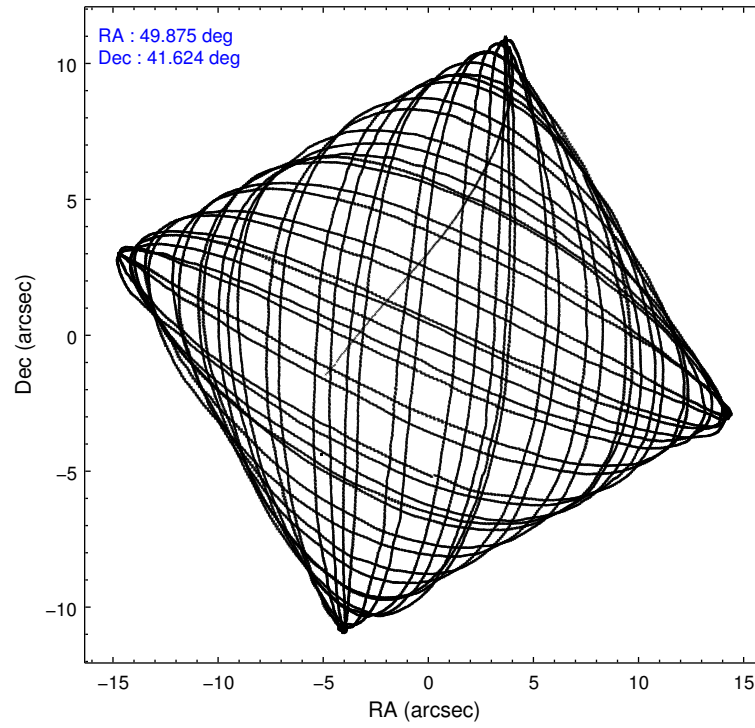
2.1.4 Events

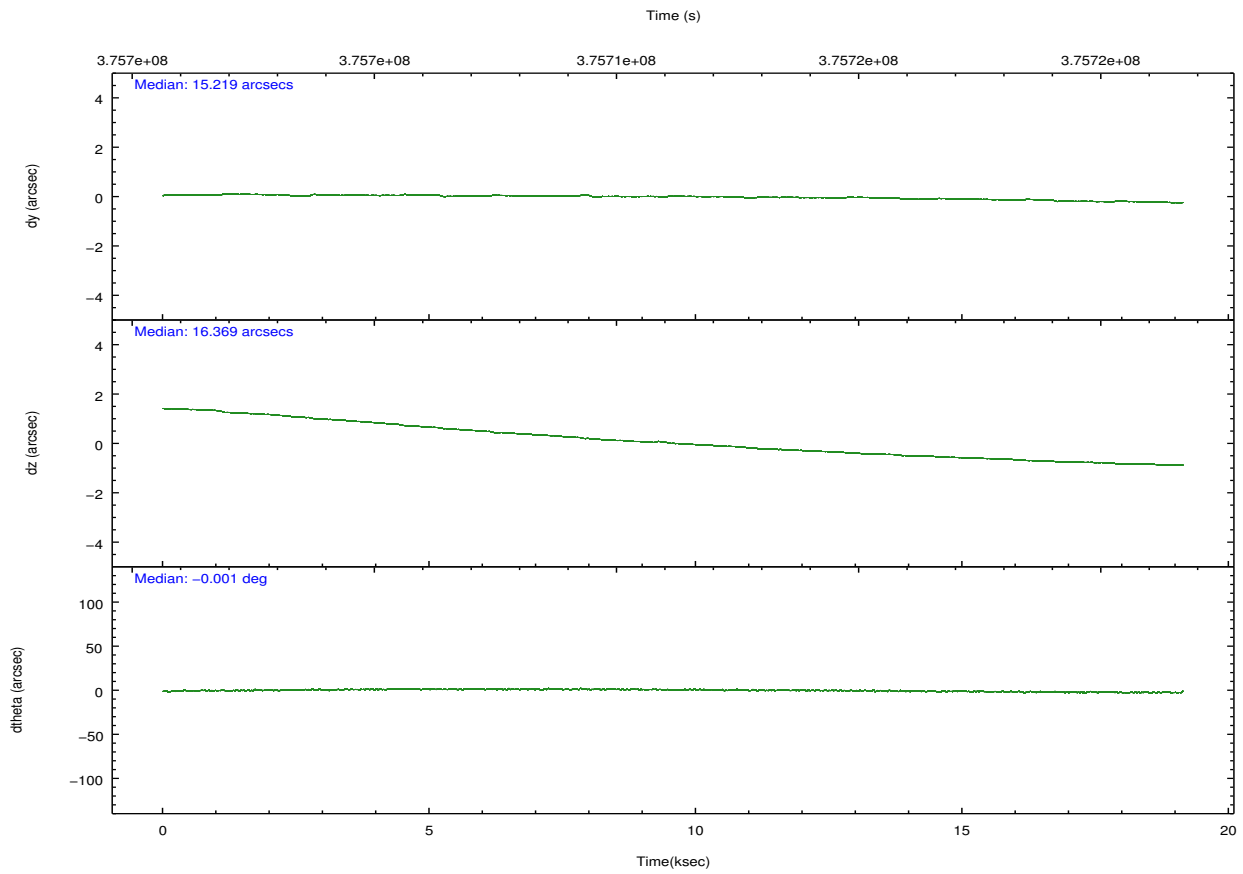
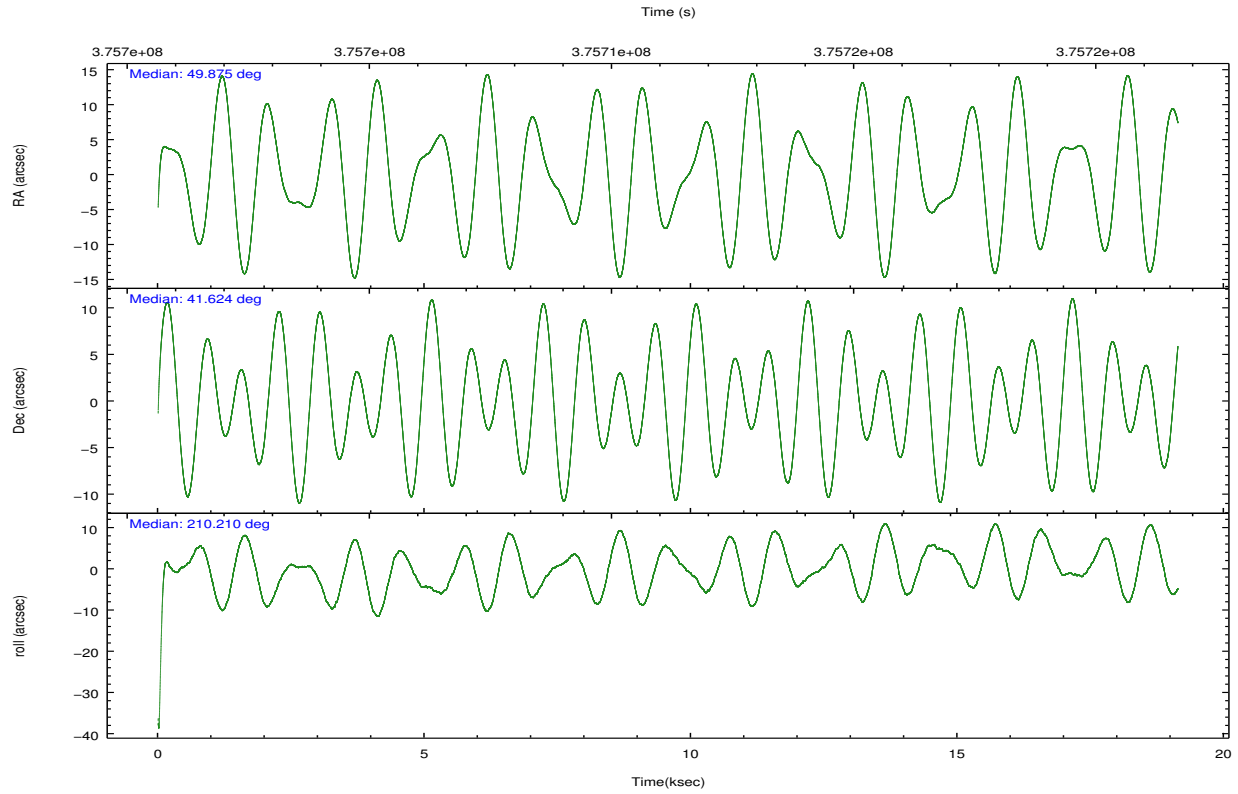
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	192266	190921	598924	451533	242460	371388	grade 0 events	34291	32506	339492	231320	60577	55794
rejected events	140052	140361	173567	159549	158203	112109		17%	17%	56%	51%	24%	15%
rejected %	72%	73%	28%	35%	65%	30%	grade 1 events	283	233	3688	1752	438	291
								0%	0%	0%	0%	0%	0%
							grade 2 events	8083	7819	45020	32213	11264	64982
								4%	4%	7%	7%	4%	17%
							grade 3 events	3082	3011	15156	10636	4024	28577
								1%	1%	2%	2%	1%	7%
							grade 4 events	3032	3025	15132	10596	3925	27611
								1%	1%	2%	2%	1%	7%
							grade 5 events	6426	6738	8525	8408	7413	21205
								3%	3%	1%	1%	3%	5%
							grade 6 events	4426	4964	14173	10754	5801	87229
								2%	2%	2%	2%	2%	23%
							grade 7 events	132643	132625	157738	145854	149018	85699
								68%	69%	26%	32%	61%	23%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	49.893348	49.87520996498995	CCD I2 on	Y	Y
[deg] Pointing Dec	41.648234	41.62431981676367	CCD I3 on	Y	Y
[deg] Pointing Roll	209.992787	210.2134992775725	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	O2	Y
[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)	375701748.184000	375700506.83568	CCD S5 on	N	N
Observation start date	2009-11-27T09:34:42	2009-11-27T09:15:06	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	375720748.184000	375721349.69924	On-chip summing requested	N	N
Observation end date	2009-11-27T14:51:22	2009-11-27T15:02:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



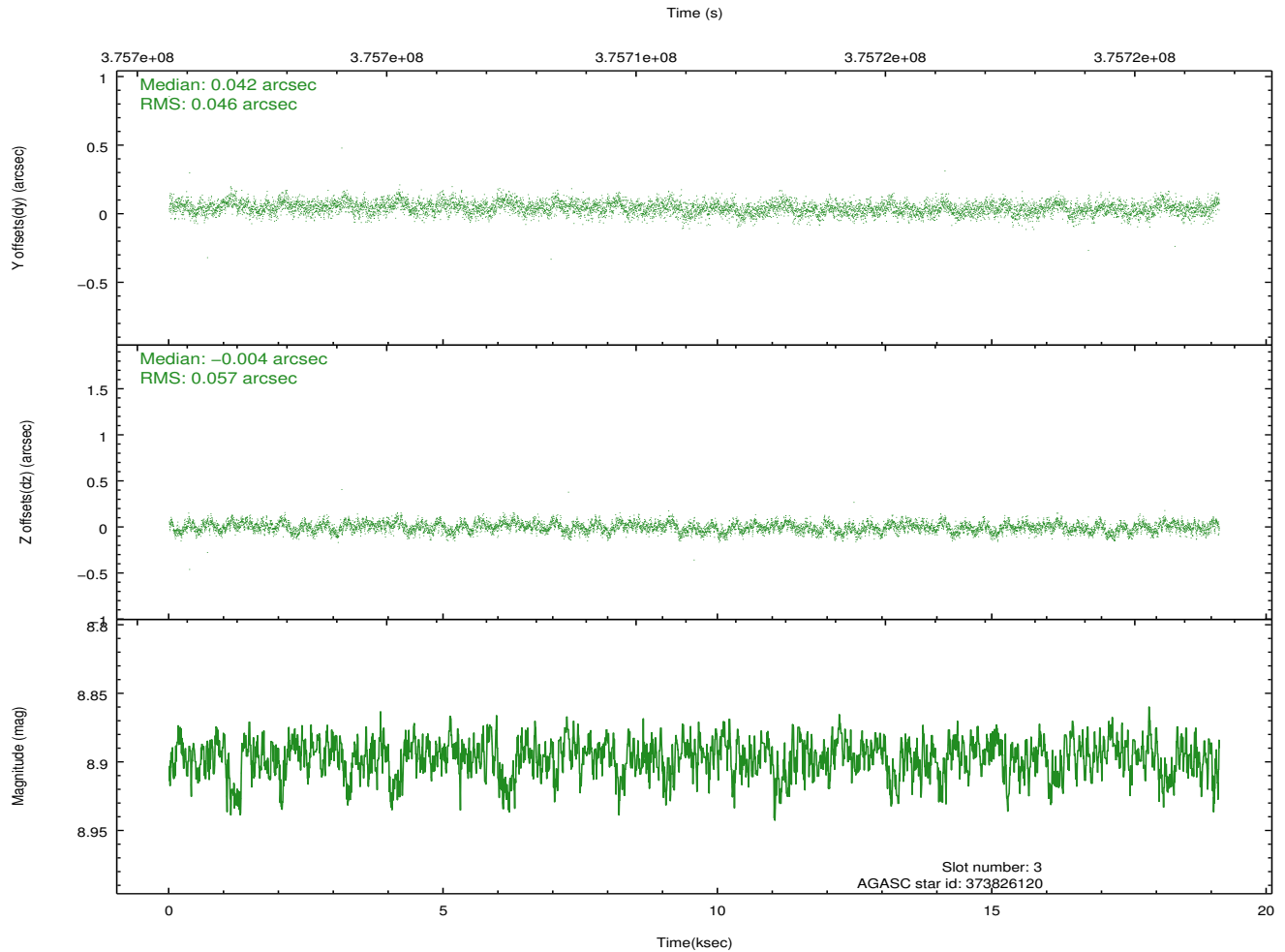
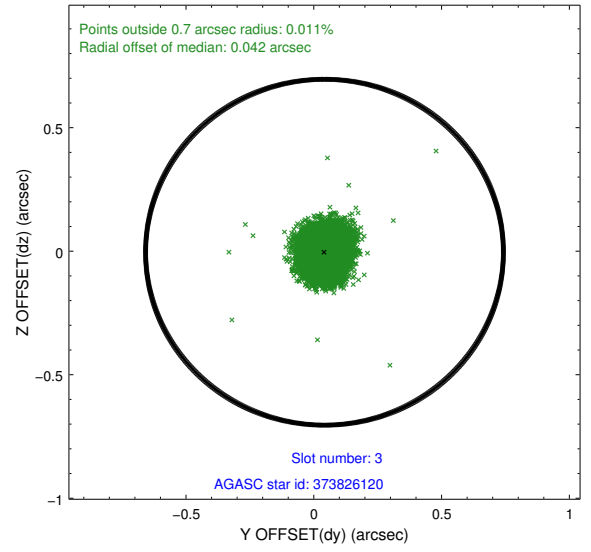
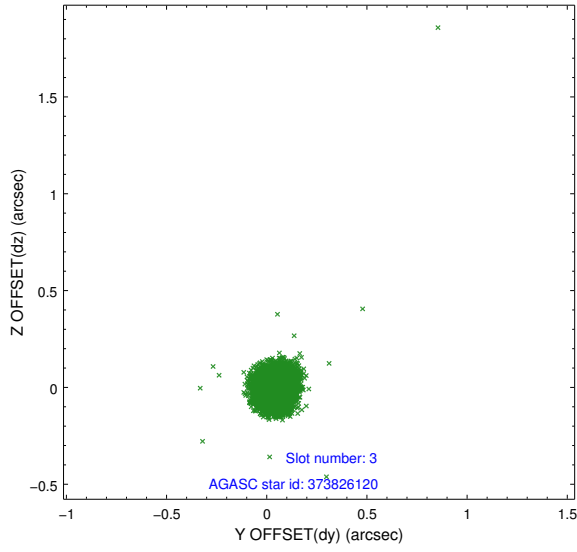


Slot Statistics

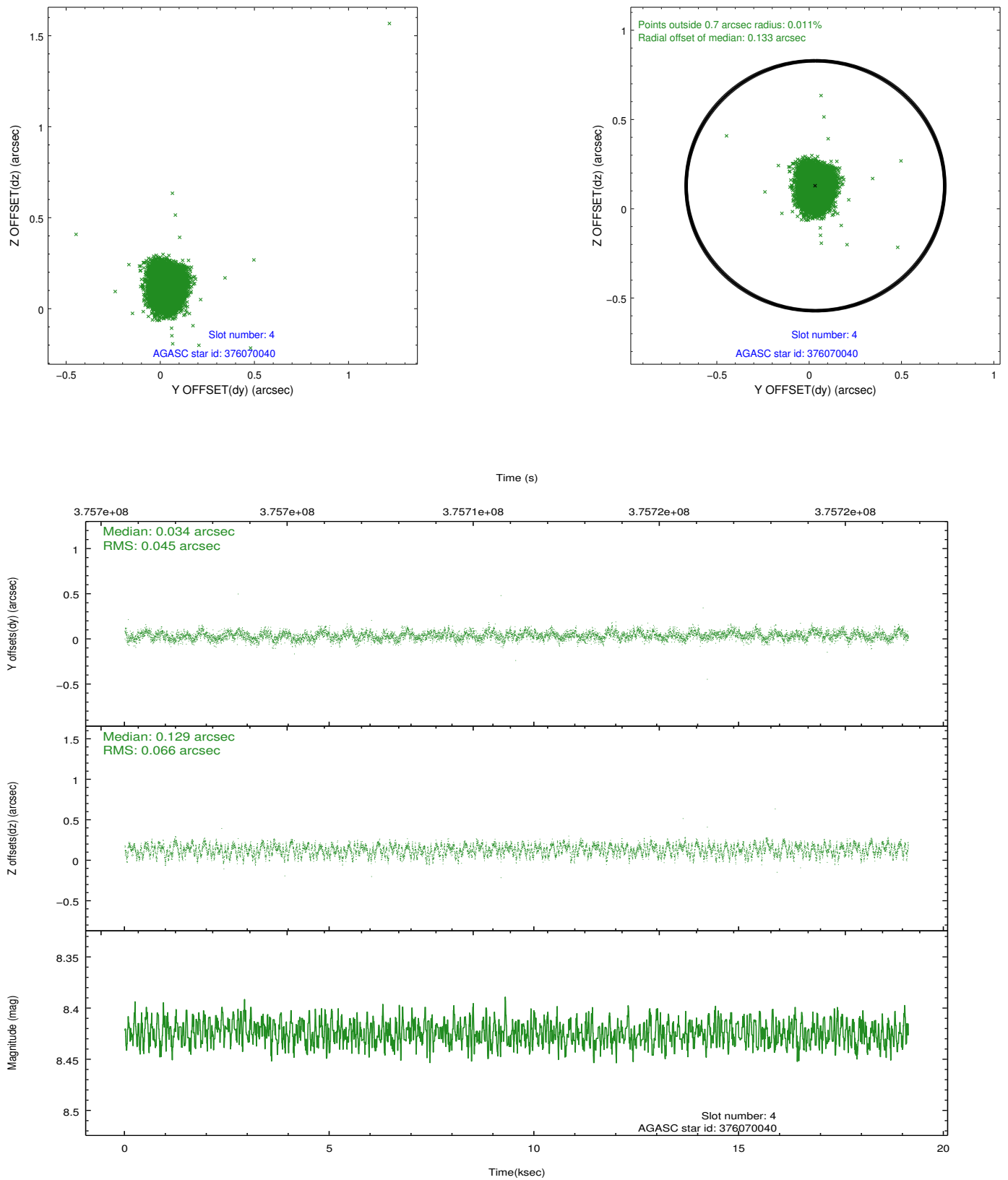
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	4667	0.054	-0.022	0.020	0.030	0.000000	0.000000	924.31	-840.14
1	FID	ACIS-I-5	7.00	4668	-0.212	0.057	0.018	0.025	0.000000	0.000000	-1823.94	1057.35
2	FID	ACIS-I-6	7.00	4668	0.069	0.040	0.013	0.027	0.000000	0.000000	389.67	1702.04
3	GUIDE	373826120	8.90	9326	0.042	-0.004	0.074	0.120	49.738165	41.186341	1195.47	1229.90
4	GUIDE	376070040	8.42	9333	0.034	0.129	0.083	0.131	50.072031	41.897206	-862.49	-536.79
5	GUIDE	373817952	8.74	9331	-0.099	-0.152	0.090	0.149	49.913424	40.978510	1158.02	2115.62
6	GUIDE	374357808	8.67	9330	0.034	0.085	0.084	0.135	49.921429	42.176083	-1014.37	-1607.78
7	GUIDE	376057824	8.34	9328	-0.009	-0.061	0.070	0.114	50.665569	41.926280	-2296.18	159.23

2.4 Star Slots

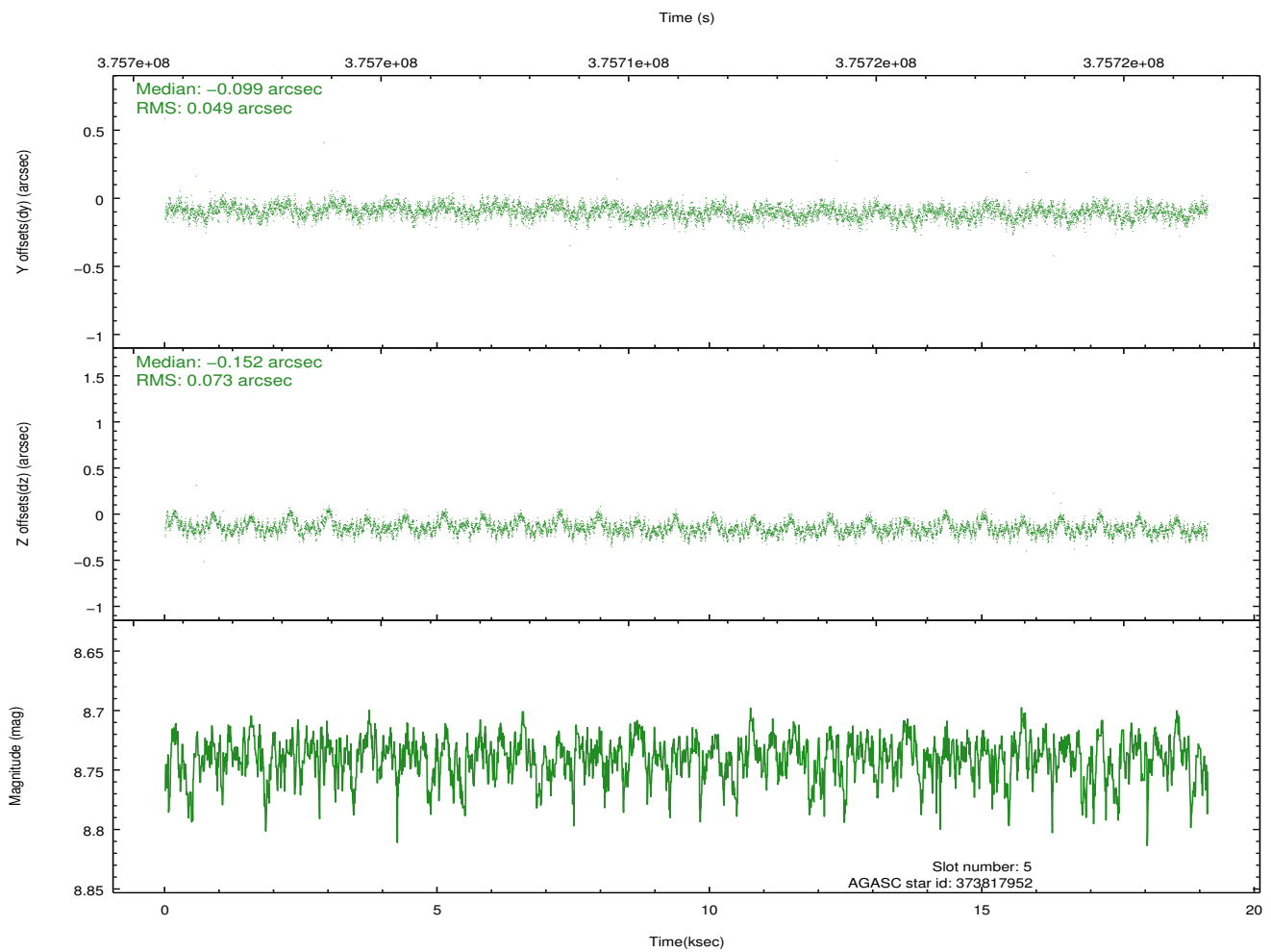
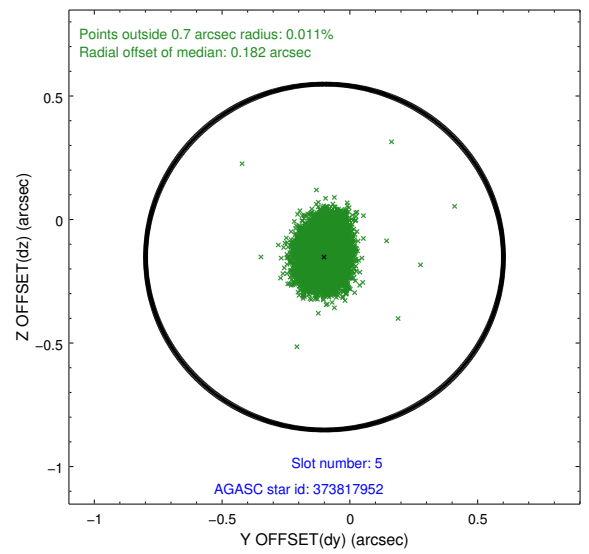
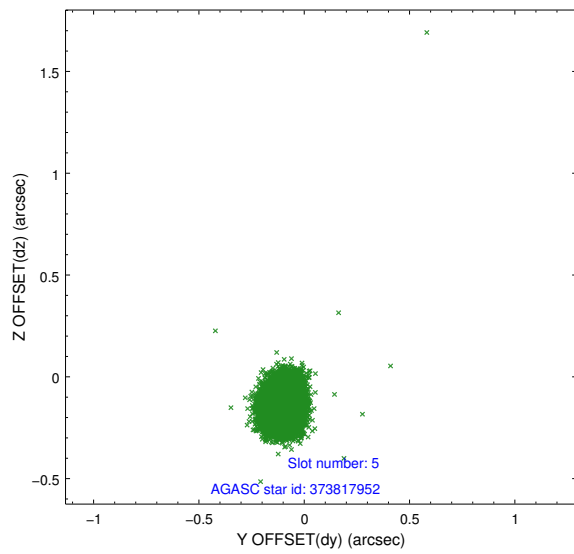
2.4.1 Slot 3



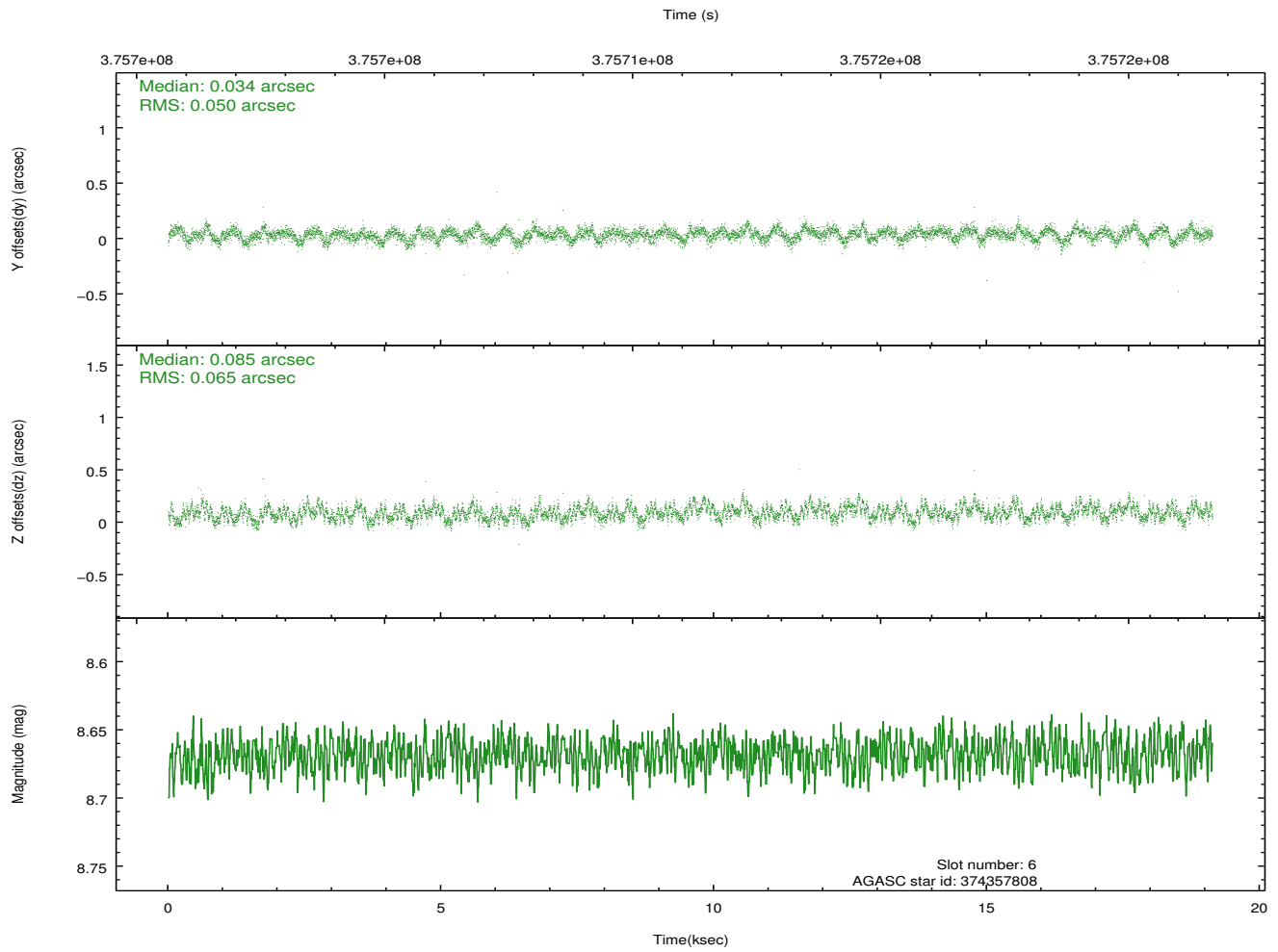
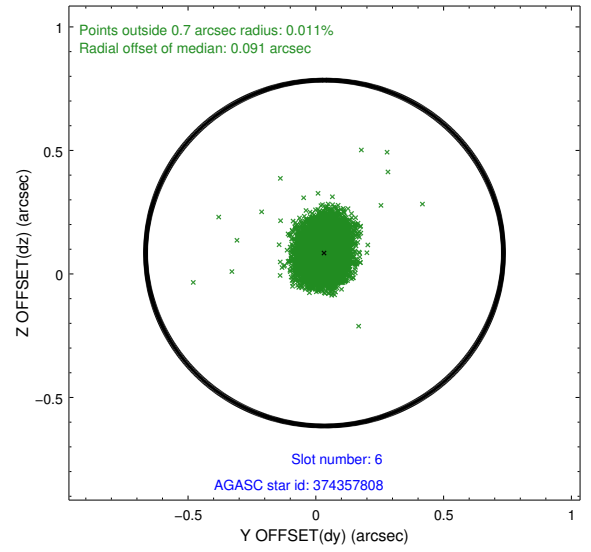
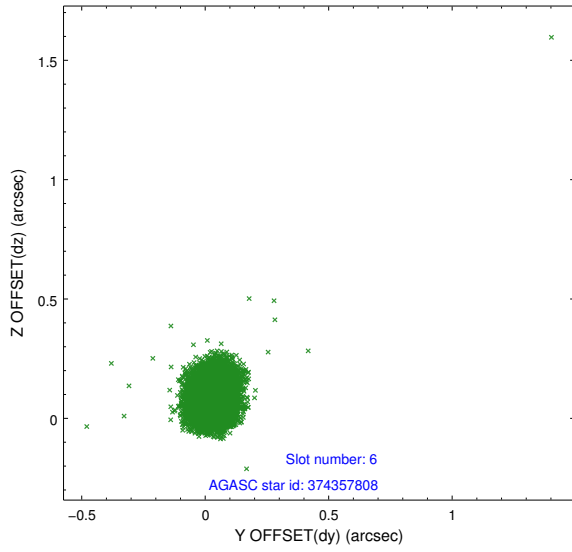
2.4.2 Slot 4



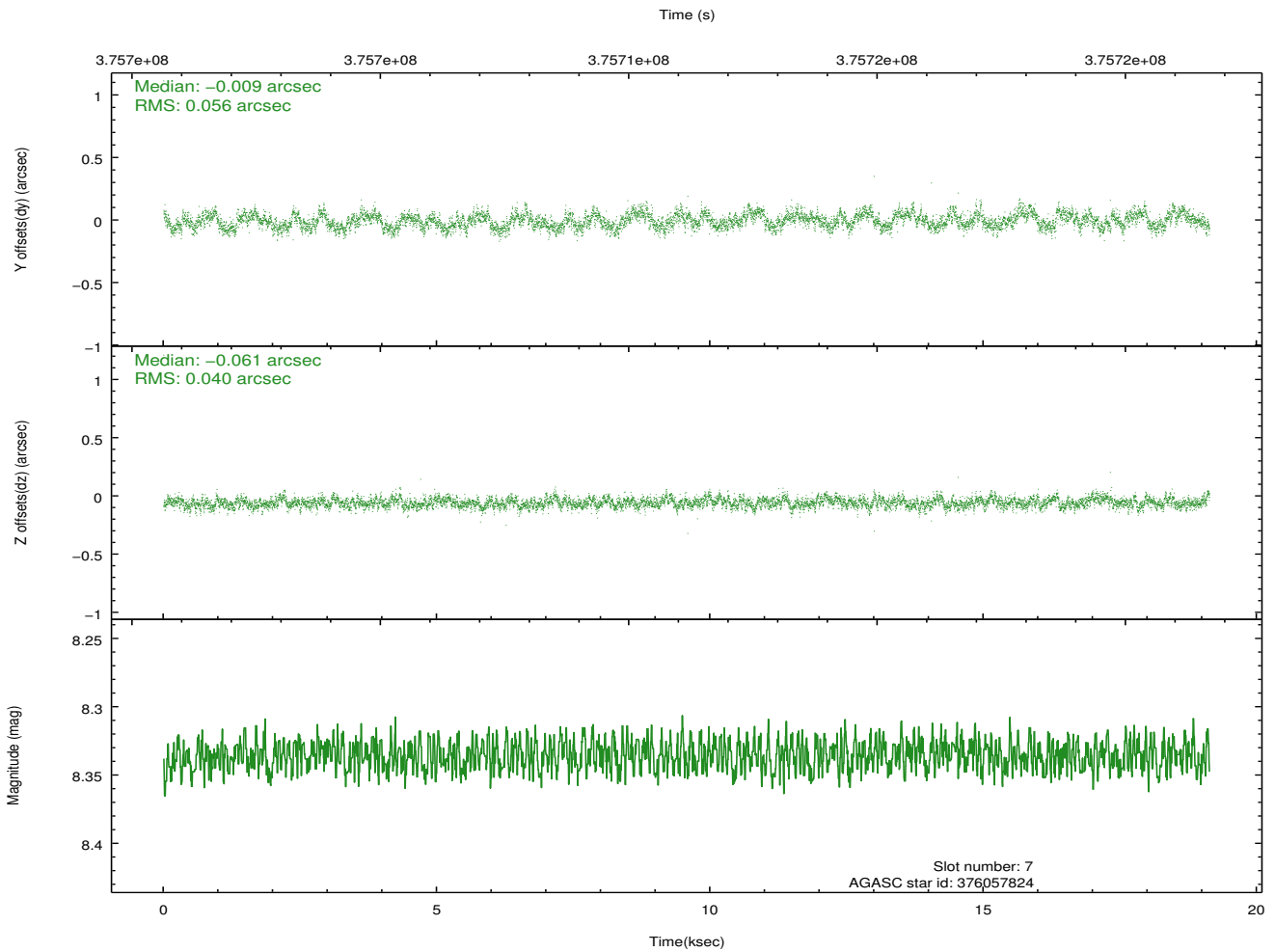
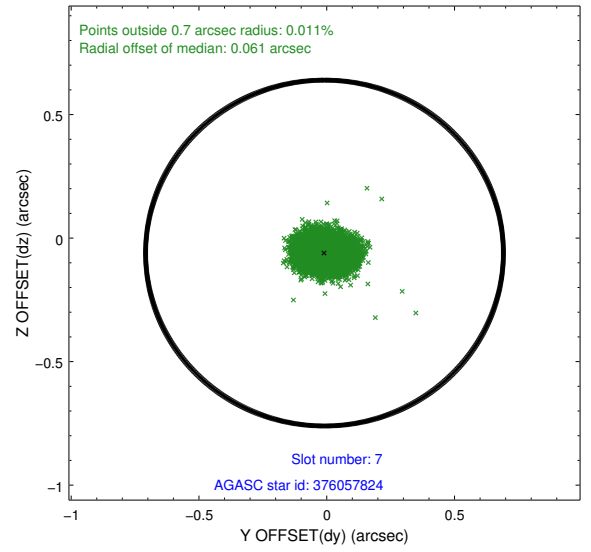
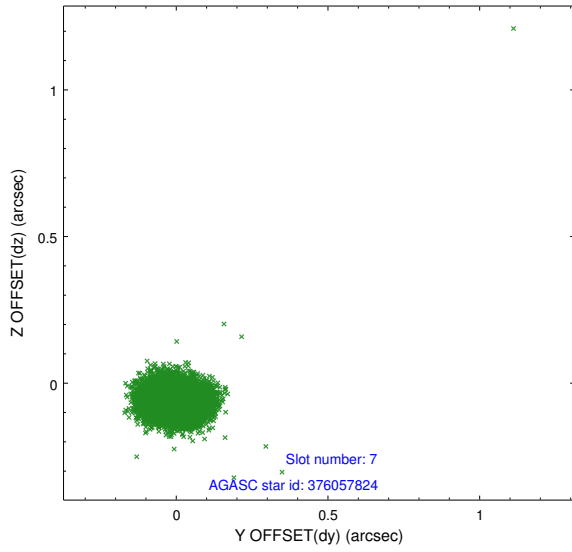
2.4.3 Slot 5



2.4.4 Slot 6

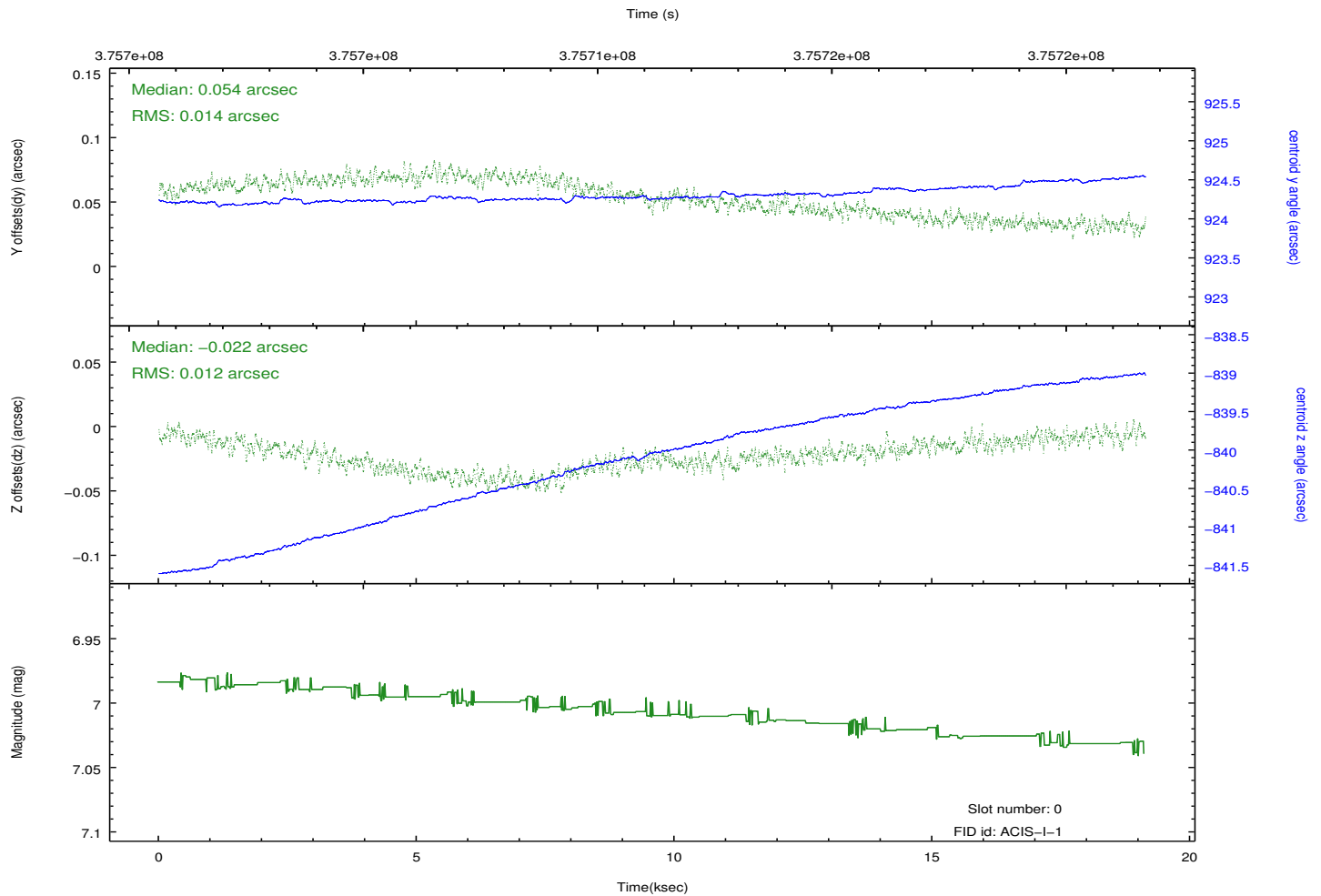
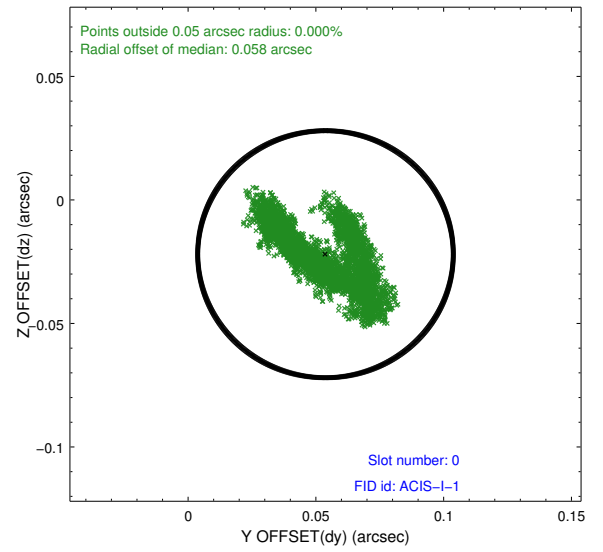
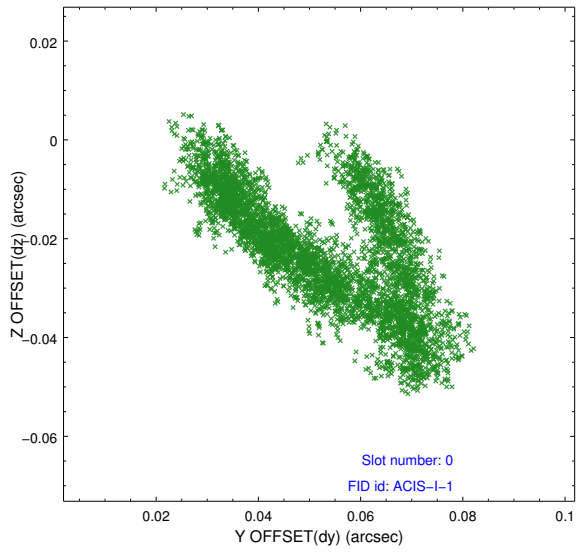


2.4.5 Slot 7

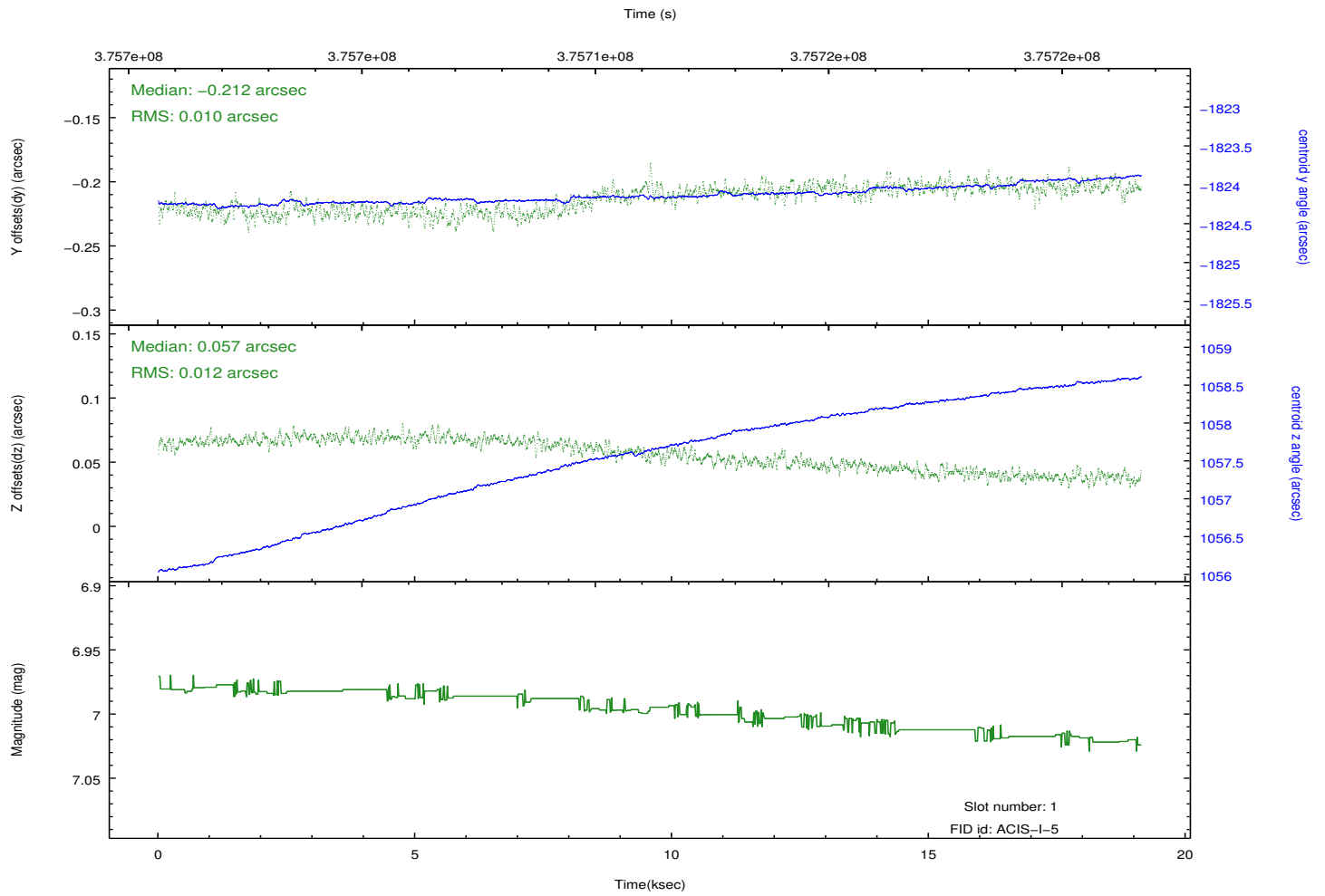
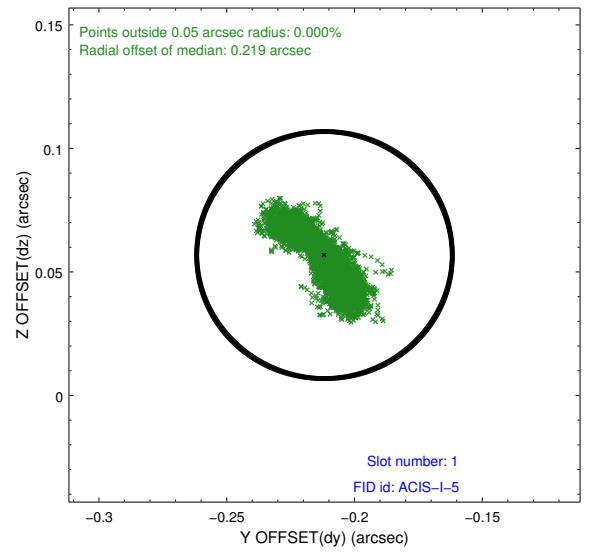
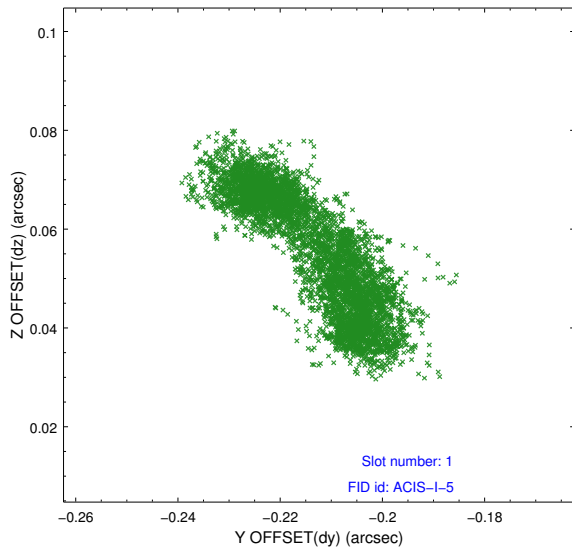


2.5 FID Slots

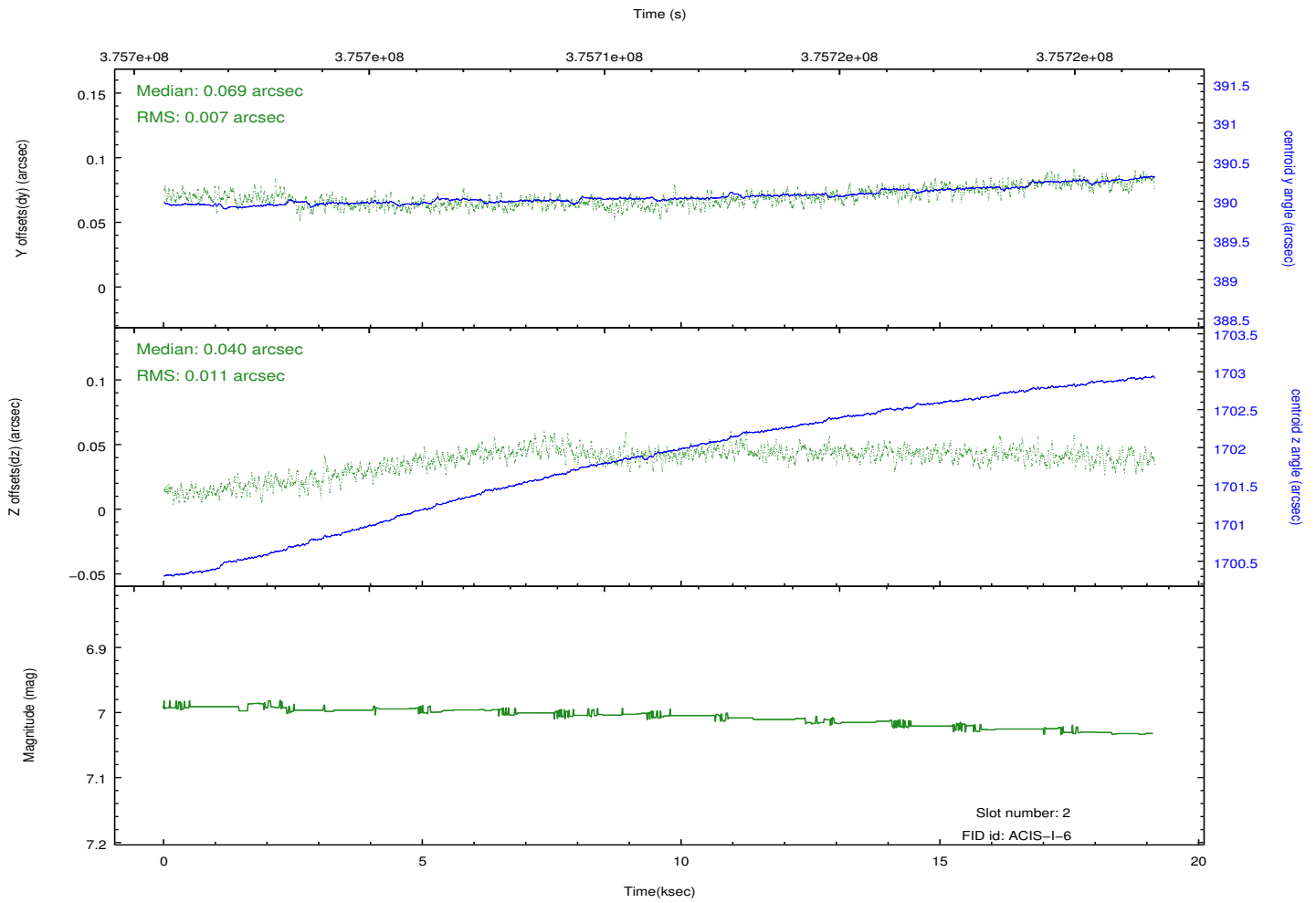
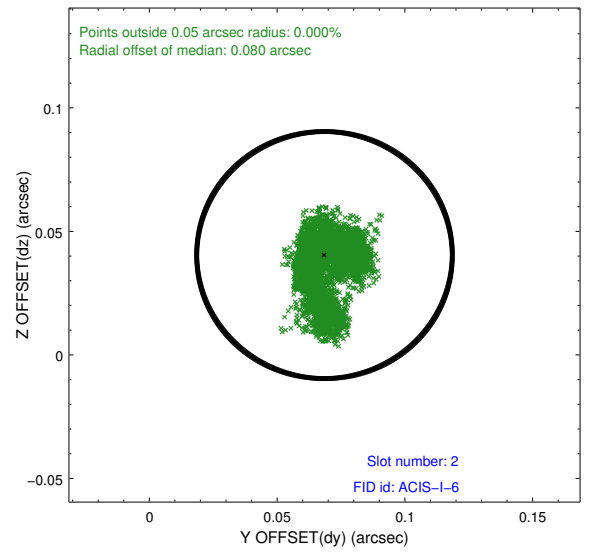
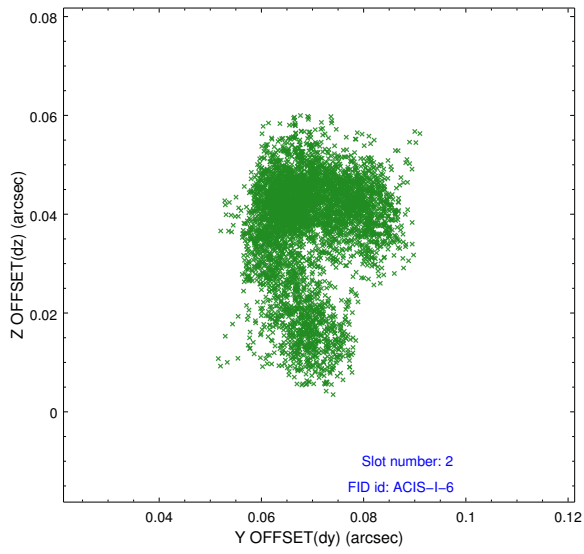
2.5.1 Slot 0



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)	2012.06.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.129599928796

A.2 Comments