

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17437 - L2 Version 1
Chandra X-Ray Center

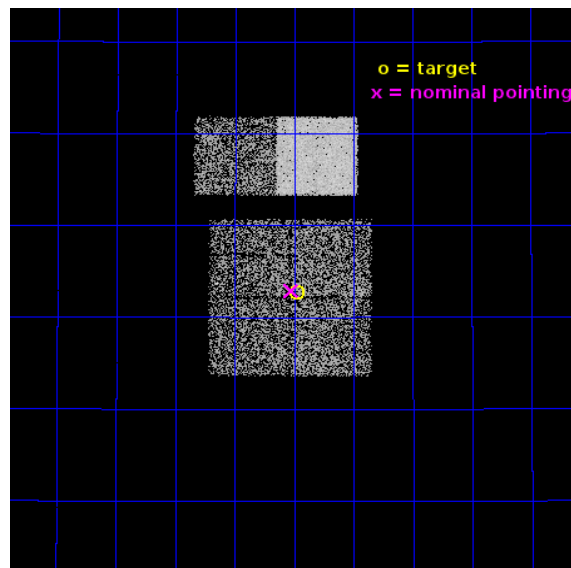
L2 Processing Date : Nov 5 2015

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1 Front

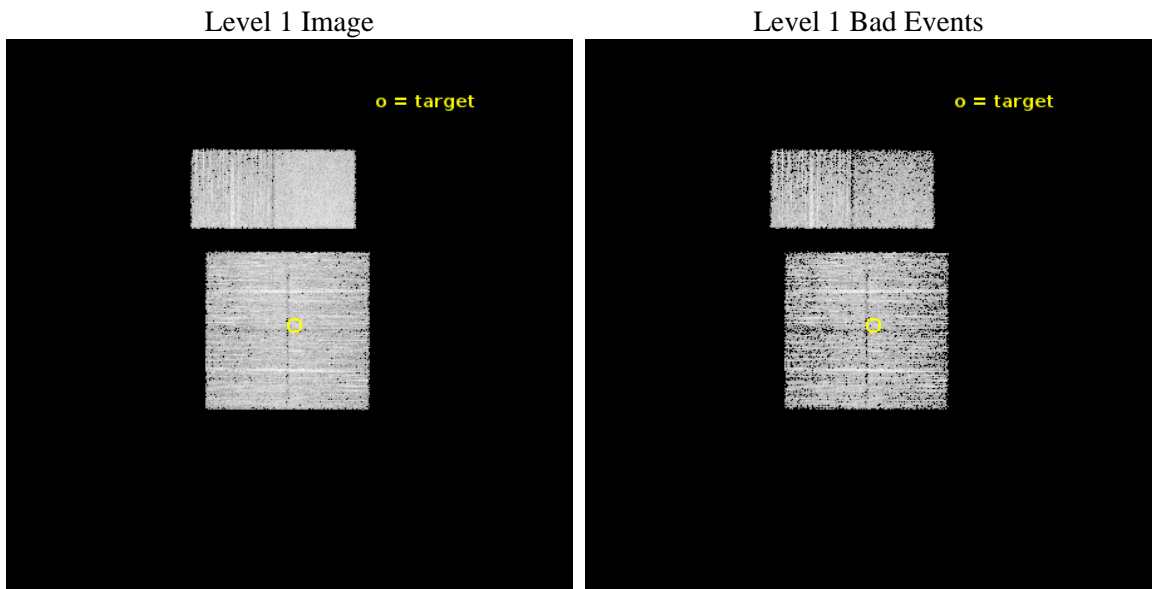
seq_num	901184	Sequence number
obs_id	17437	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.869167	Observer's specified target RA [deg]
dec_targ	34.211528	Observer's specified target Dec [deg]
ra_nom	216.88073340895	Nominal RA [deg]
dec_nom	34.214821386271	Nominal Dec [deg]
roll_nom	0.20211885842875	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6006.4000895023	Sum of GTIs [s]
livetime	5930.3434349491	Livetime [s]
ontime0	6006.4000895023	Sum of GTIs [s]
ontime1	6006.4000895023	Sum of GTIs [s]
ontime2	6006.4000895023	Sum of GTIs [s]
ontime3	6006.4000895023	Sum of GTIs [s]
ontime6	6006.4000895023	Sum of GTIs [s]
ontime7	6006.4000895023	Sum of GTIs [s]
l2events	34013	Number of level 2 events



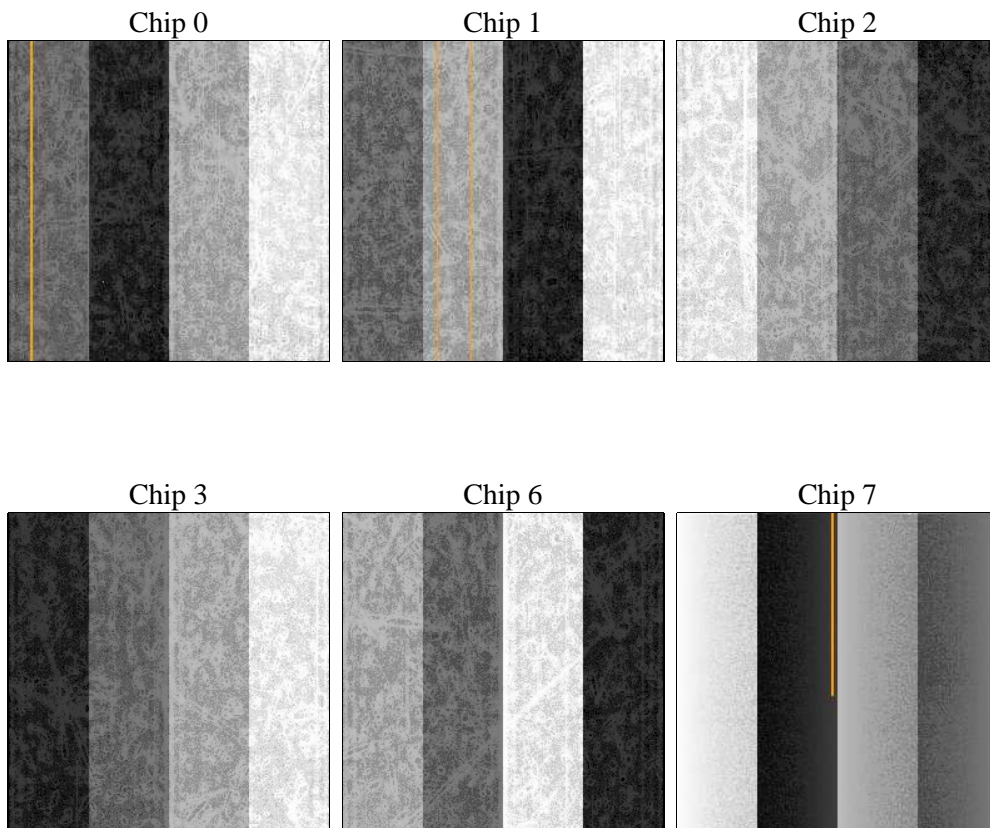
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6250.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	6006.4000895023	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	6006.4000895023	Sum of GTIs [s]
date	2015-11-05T14:23:39	Date and time of file creation	ontime1	6006.4000895023	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6006.4000895023	Sum of GTIs [s]
			ontime3	6006.4000895023	Sum of GTIs [s]
			ontime6	6006.4000895023	Sum of GTIs [s]
			ontime7	6006.4000895023	Sum of GTIs [s]
			l1events	200297	Number of level 1 events

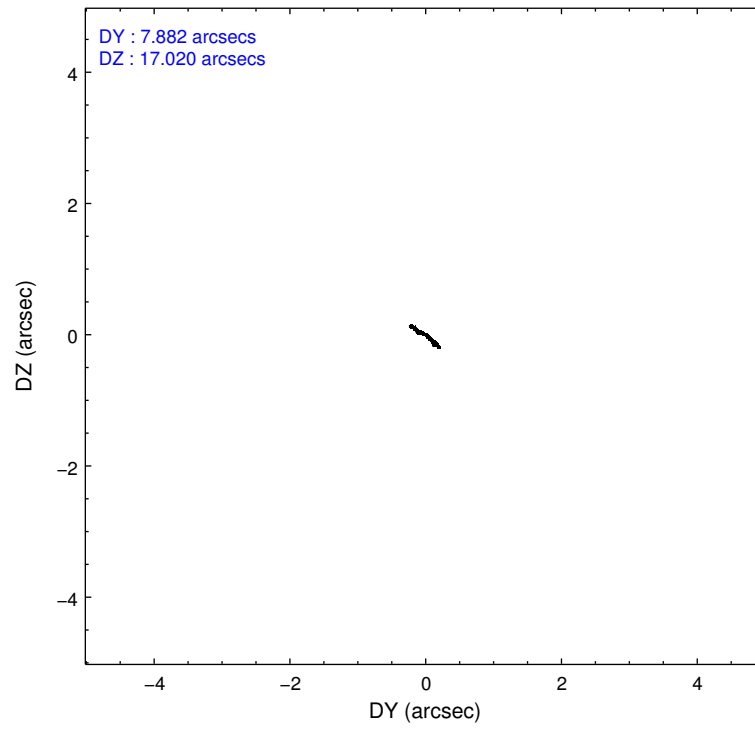
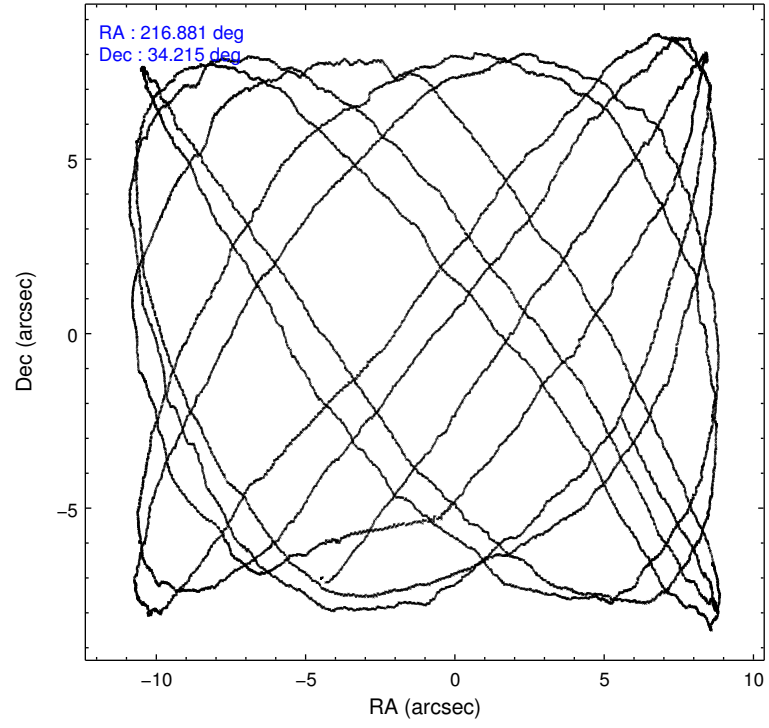
2.1.4 Events

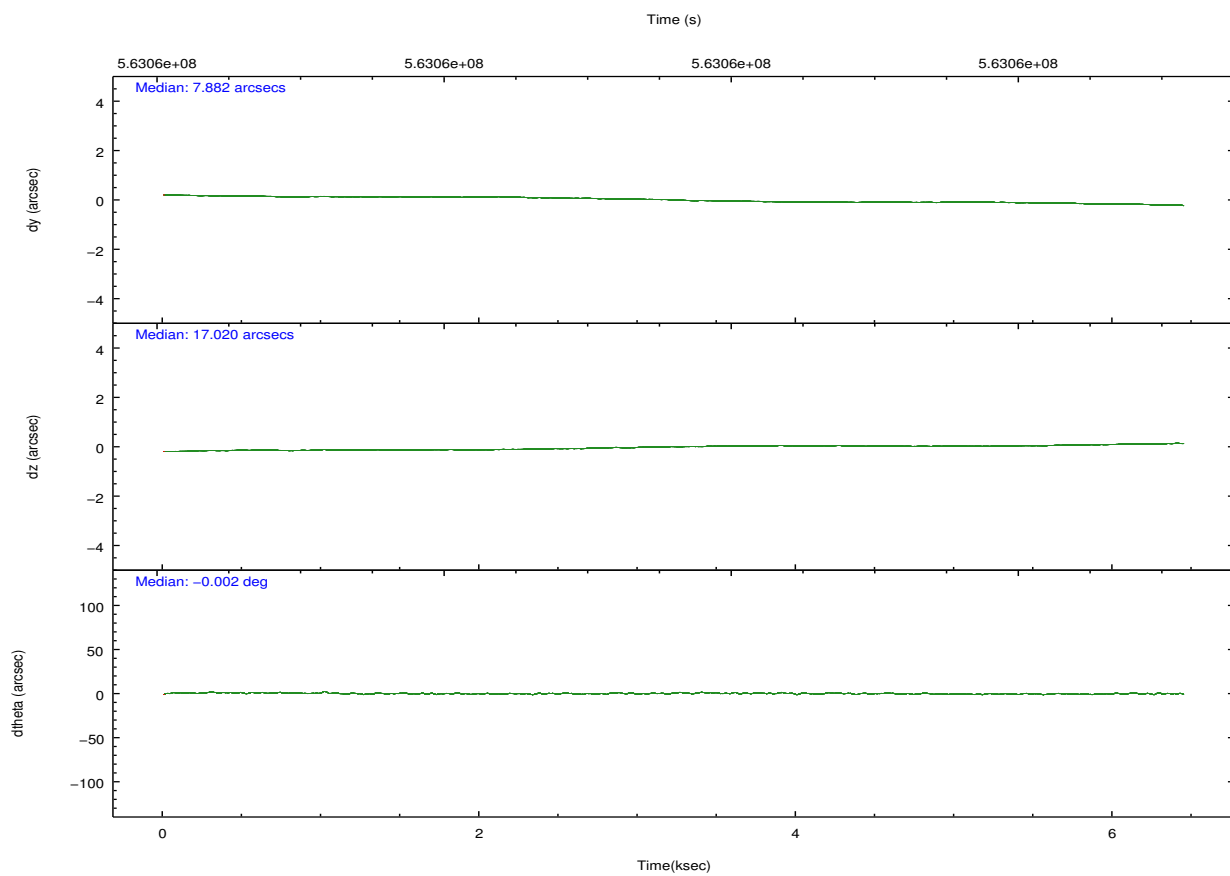
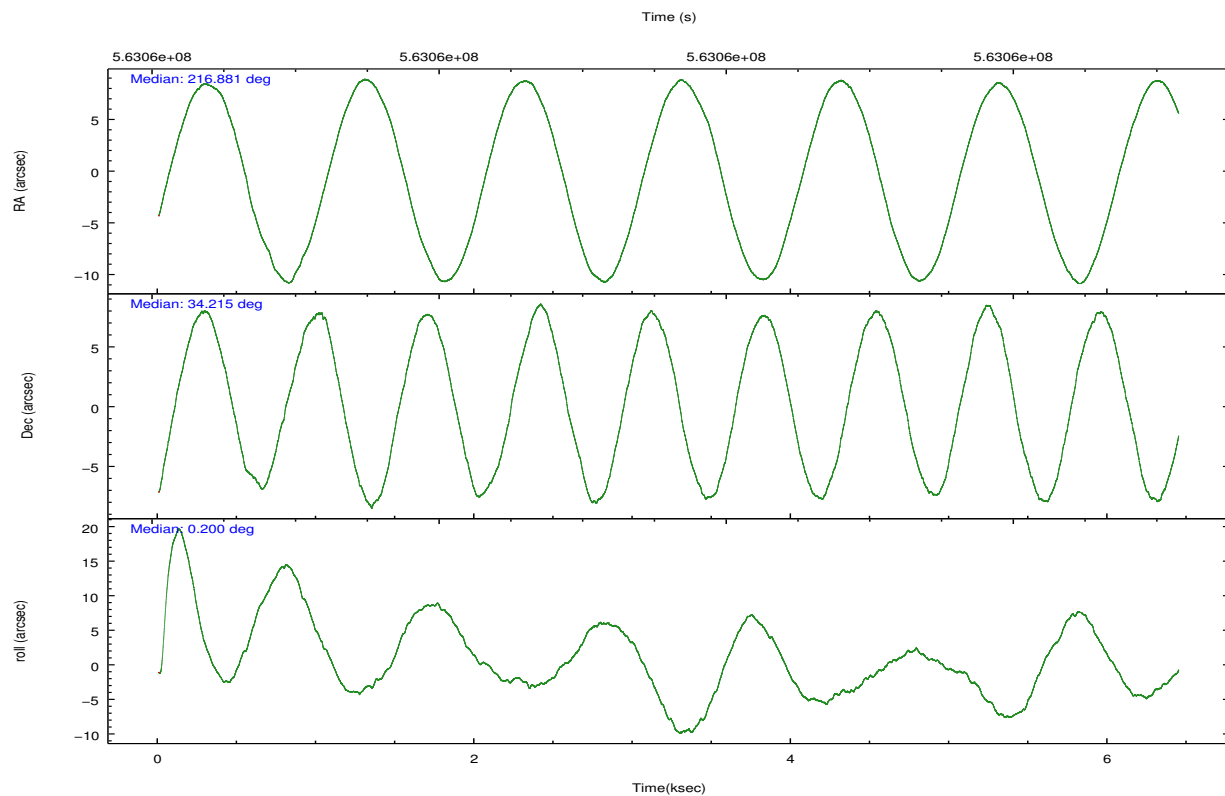
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	29923	30697	33915	30389	33471	41902	grade 0 events	1287	1442	1331	1482	1299	1639
rejected events	26245	26569	30199	26657	29685	23622		4%	4%	3%	4%	3%	3%
rejected %	87%	86%	89%	87%	88%	56%	grade 1 events	26	13	23	10	17	48
								0%	0%	0%	0%	0%	0%
							grade 2 events	965	1015	957	754	854	3880
								3%	3%	2%	2%	2%	9%
							grade 3 events	365	391	351	382	368	1406
								1%	1%	1%	1%	1%	3%
							grade 4 events	352	370	392	397	386	1486
								1%	1%	1%	1%	1%	3%
							grade 5 events	1431	1464	1377	1611	1568	4294
								4%	4%	4%	5%	4%	10%
							grade 6 events	718	915	686	720	881	9879
								2%	2%	2%	2%	2%	23%
							grade 7 events	24779	25087	28798	25033	28098	19270
								82%	81%	84%	82%	83%	45%

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	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	216.851838	216.8807334089506	CCD I2 on	Y	Y
[deg] Pointing Dec	34.200858	34.21482138627148	CCD I3 on	Y	Y
[deg] Pointing Roll	0.009742	0.2021188584287517	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)	563058572.184000	563058196.07265	CCD S5 on	N	N
Observation start date	2015-11-04T21:08:24	2015-11-04T21:03:16	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	563064822.184000	563064955.94804	On-chip summing requested	N	N
Observation end date	2015-11-04T22:52:34	2015-11-04T22:55:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



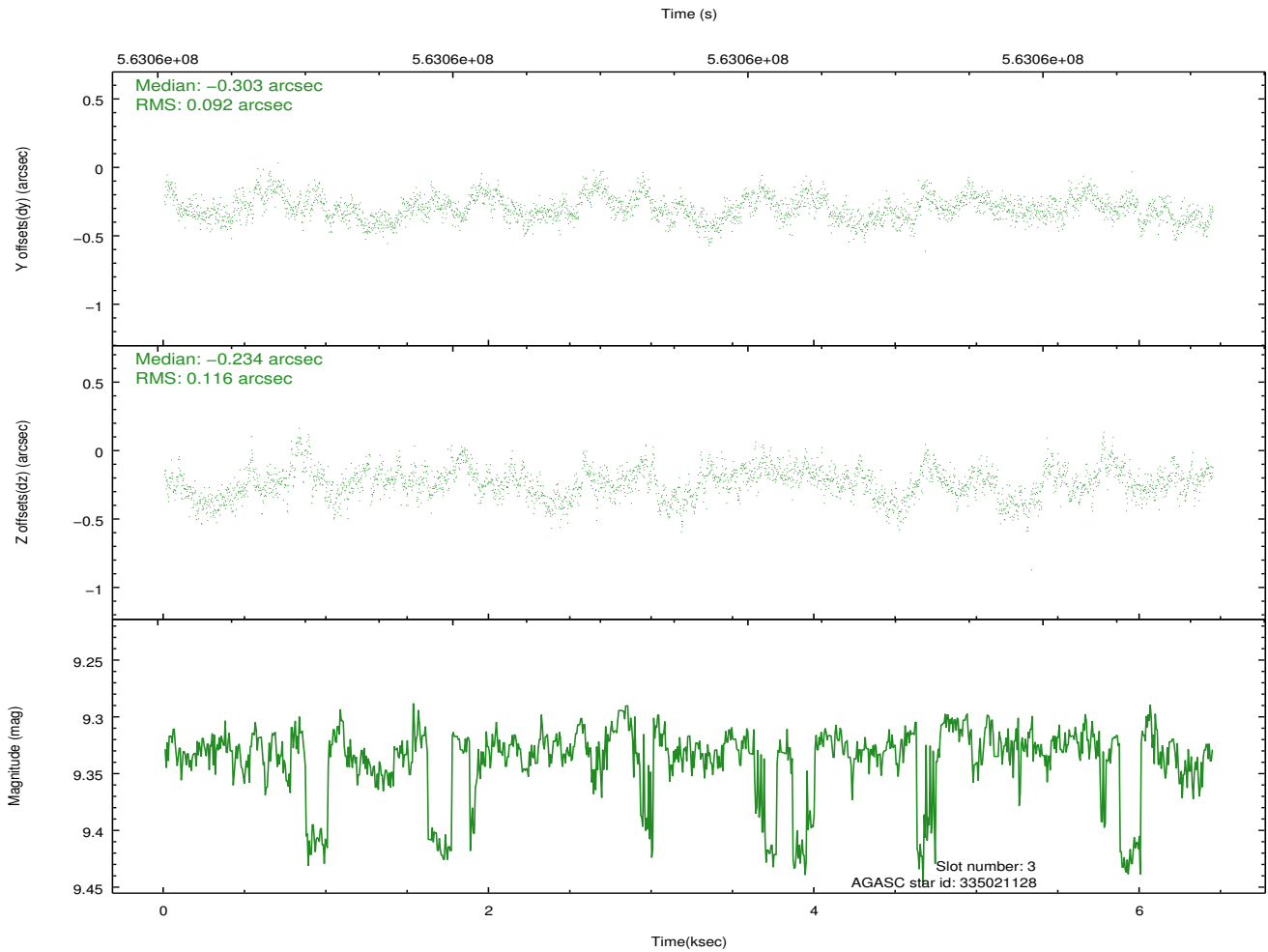
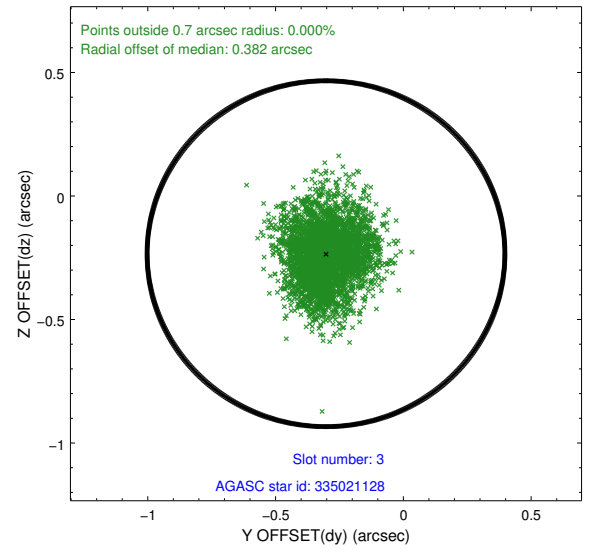
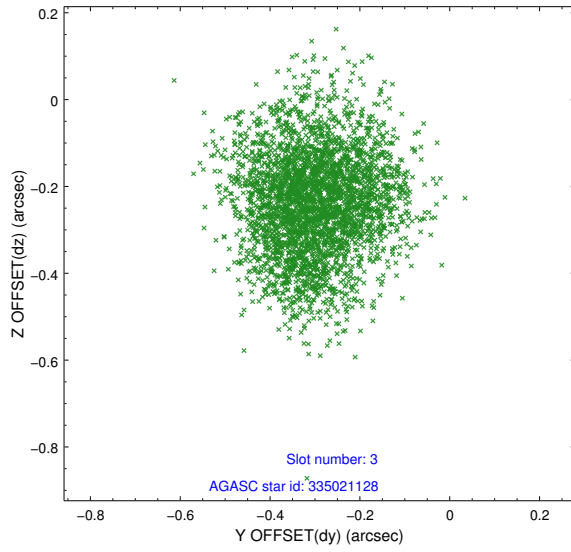


Slot Statistics

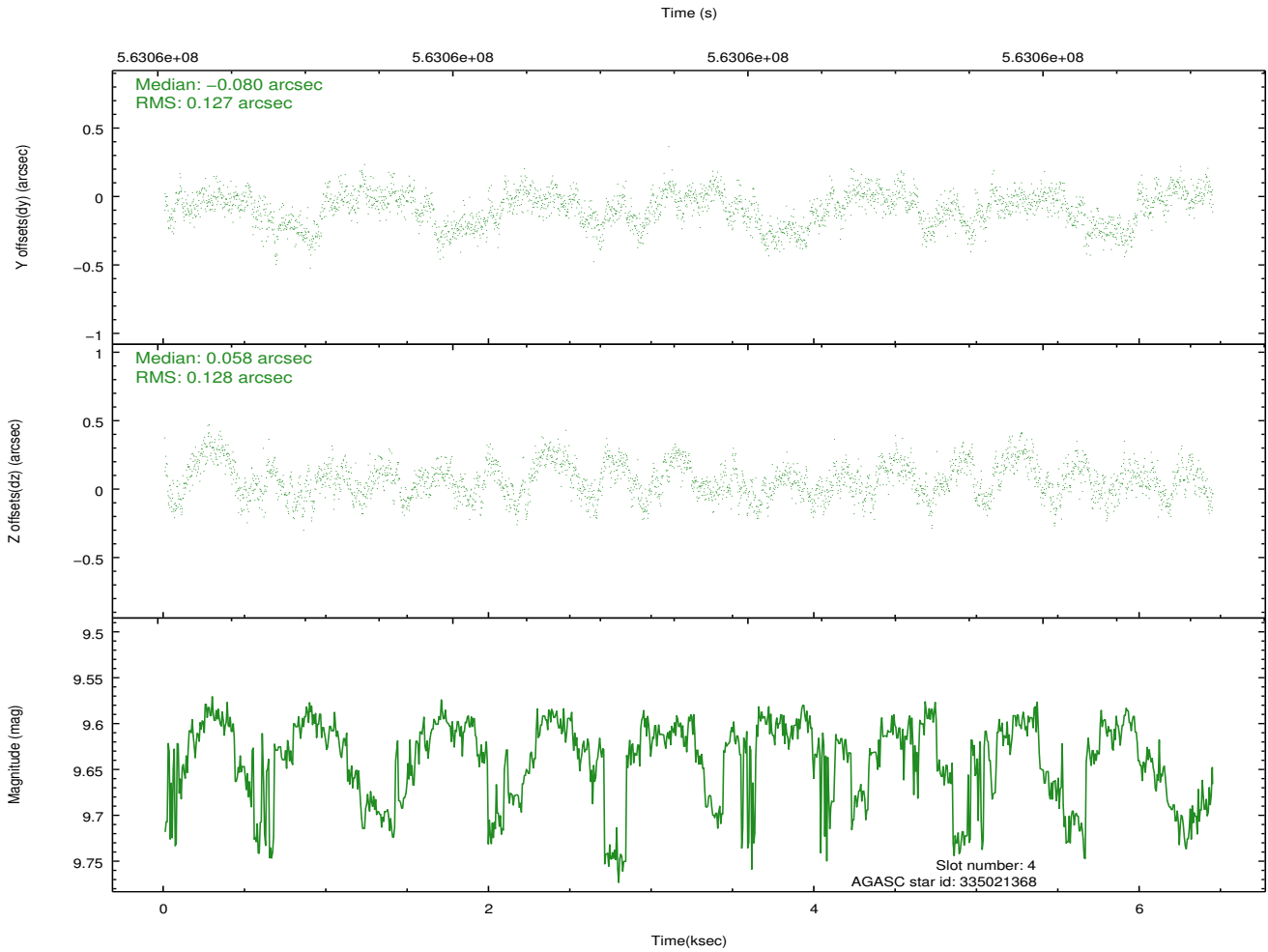
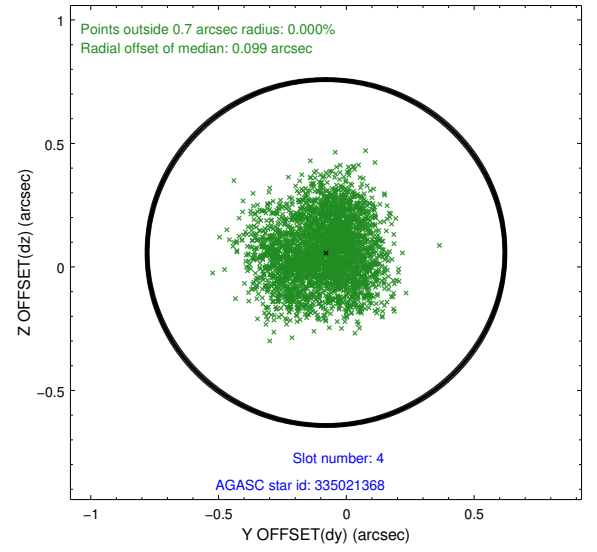
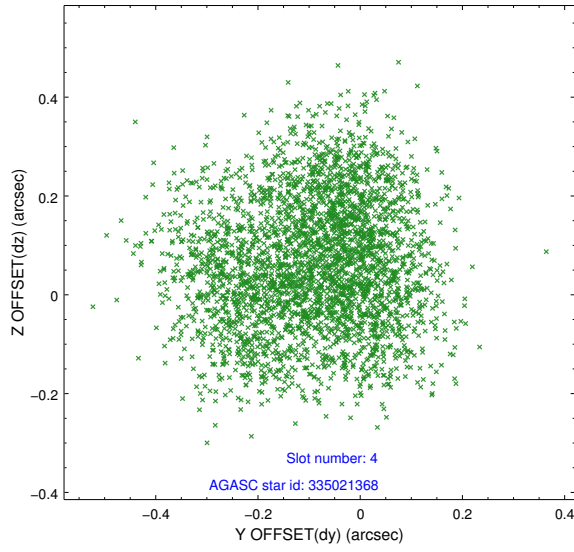
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	1571	0.130	-0.104	0.011	0.018	0.000000	0.000000	931.90	-840.74
1	FID		ACIS-I-5	7.24	1572	-0.301	0.099	0.007	0.013	0.000000	0.000000	-1816.15	1056.47
2	FID		ACIS-I-6	7.23	1572	0.080	0.075	0.012	0.020	0.000000	0.000000	396.39	1702.00
3	GUIDE	used	335021128	9.33	3142	-0.303	-0.234	0.157	0.251	216.159551	34.422539	-2056.50	805.26
4	GUIDE	used	335021368	9.63	3139	-0.080	0.058	0.200	0.301	217.529643	33.934817	2023.11	-950.90
5	GUIDE	used	335025848	9.68	3138	0.306	0.224	0.138	0.221	217.530531	33.778292	2031.13	-1514.78
6	GUIDE	used	335028696	9.21	3140	-0.536	0.113	0.149	0.238	217.260519	33.844112	1221.40	-1282.27
7	GUIDE	used	335030384	8.81	3143	0.610	-0.168	0.148	0.231	216.806407	34.722197	-133.65	1876.43

2.4 Star Slots

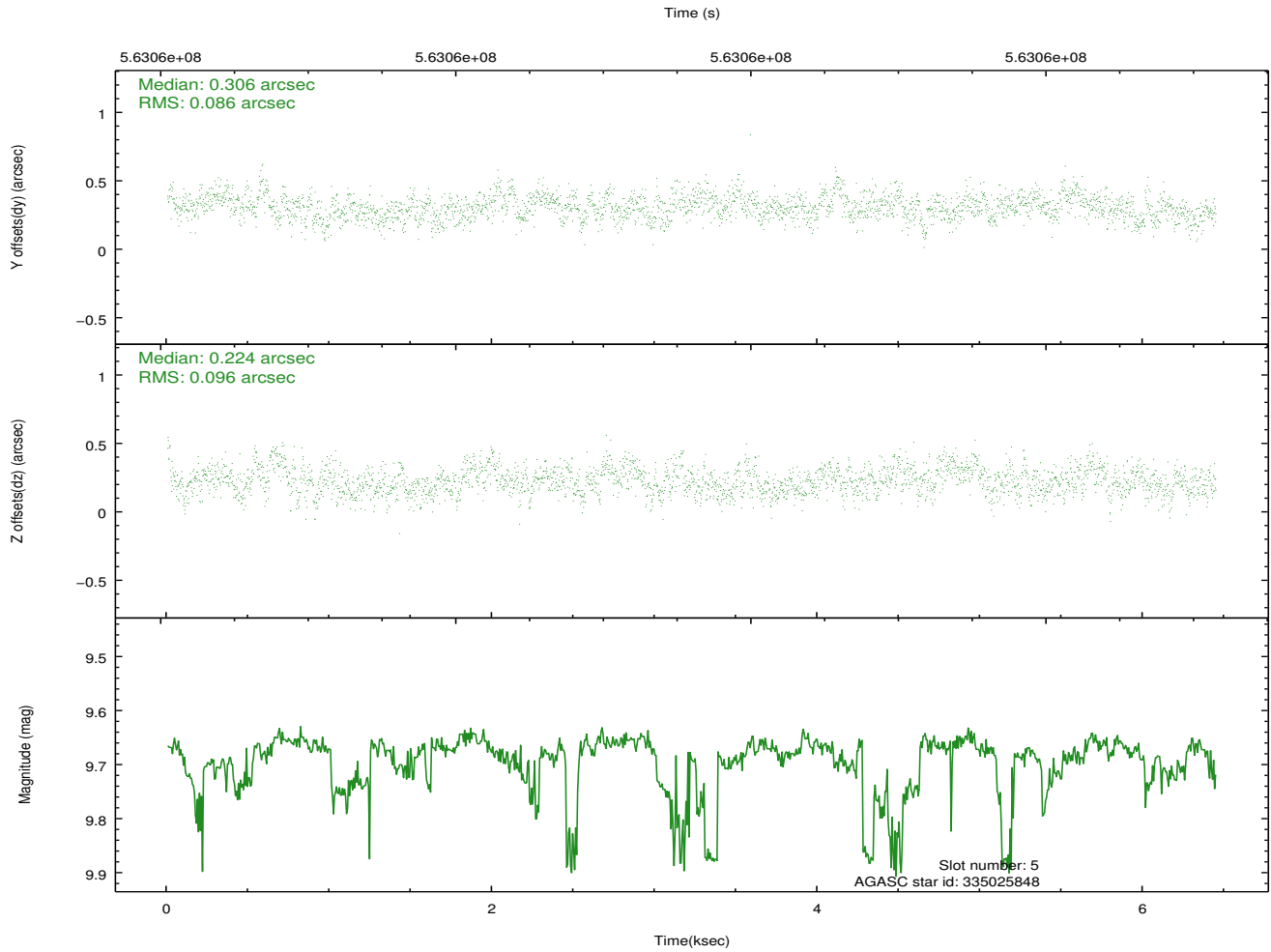
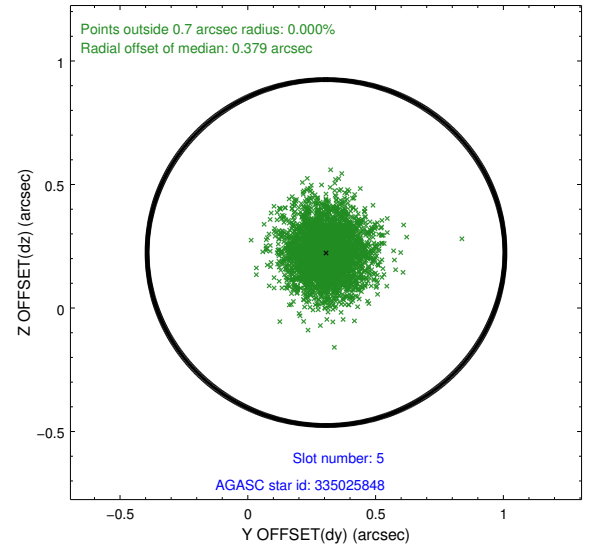
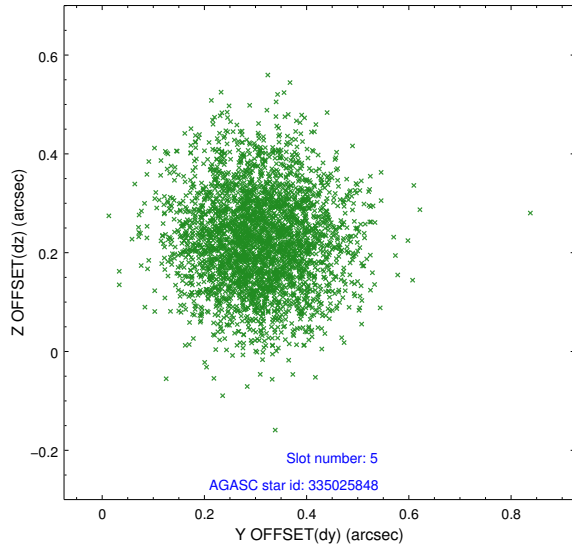
2.4.1 Slot 3



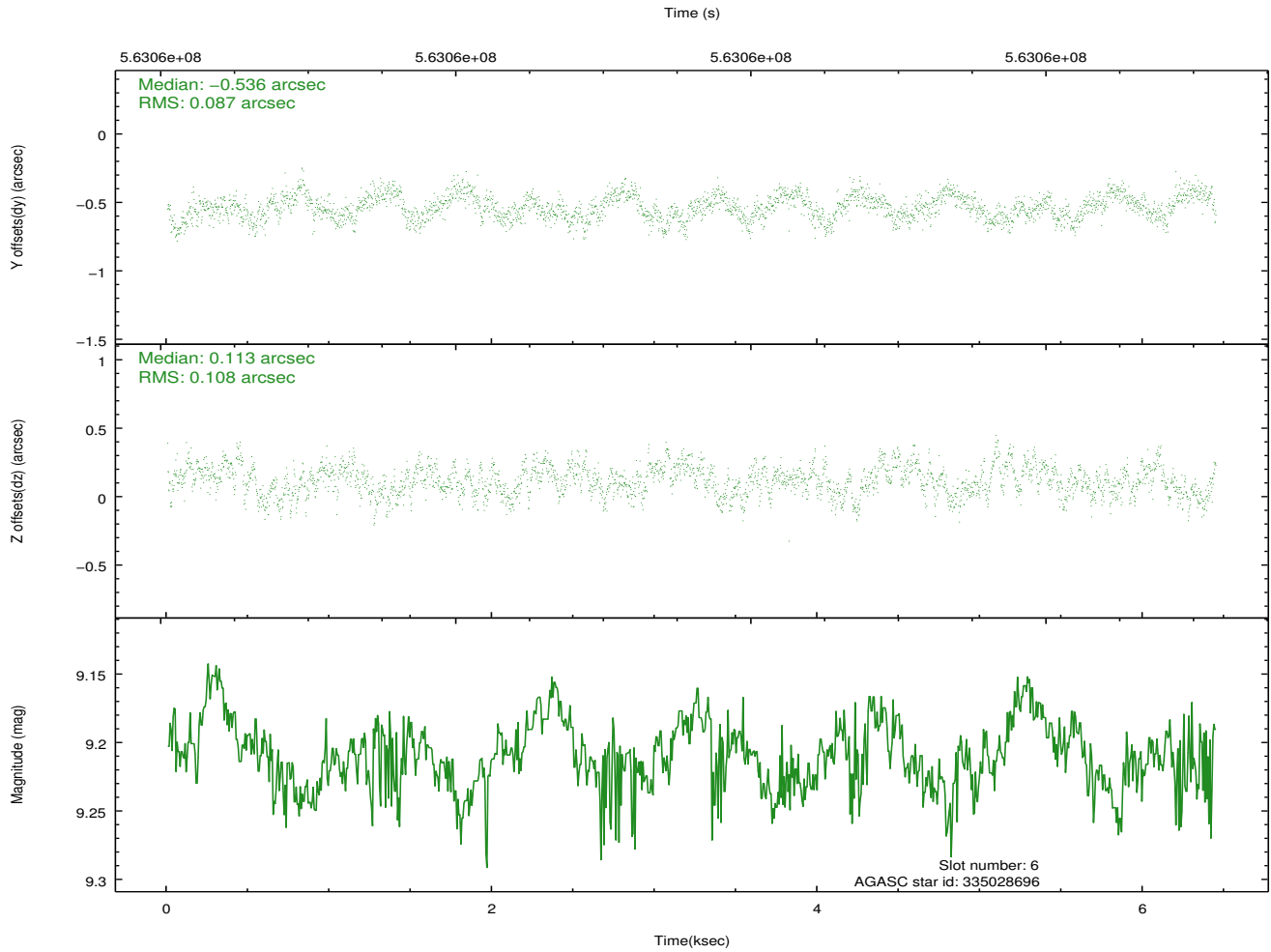
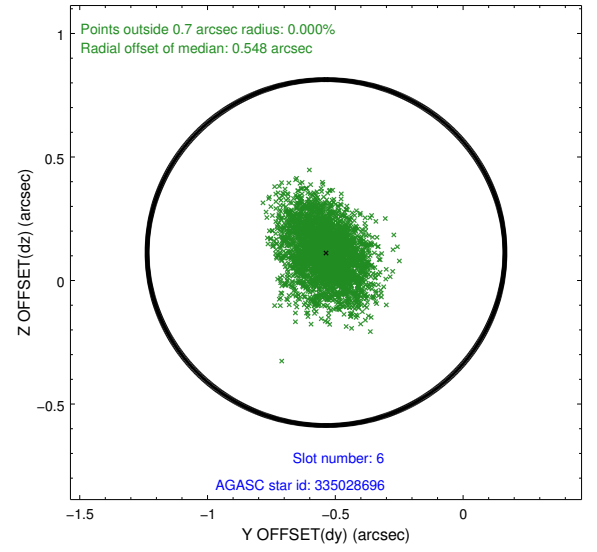
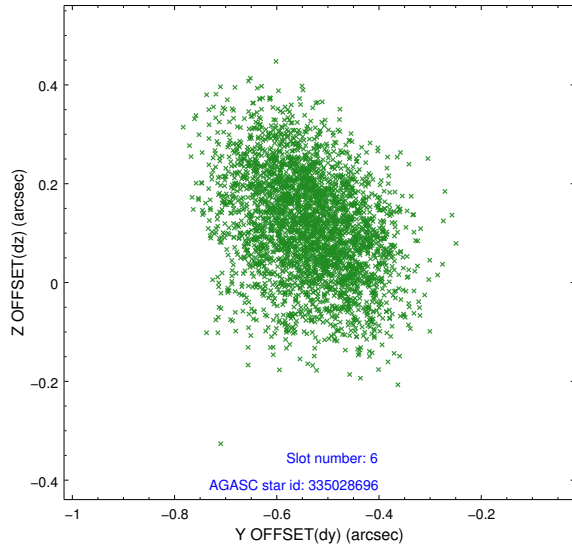
2.4.2 Slot 4



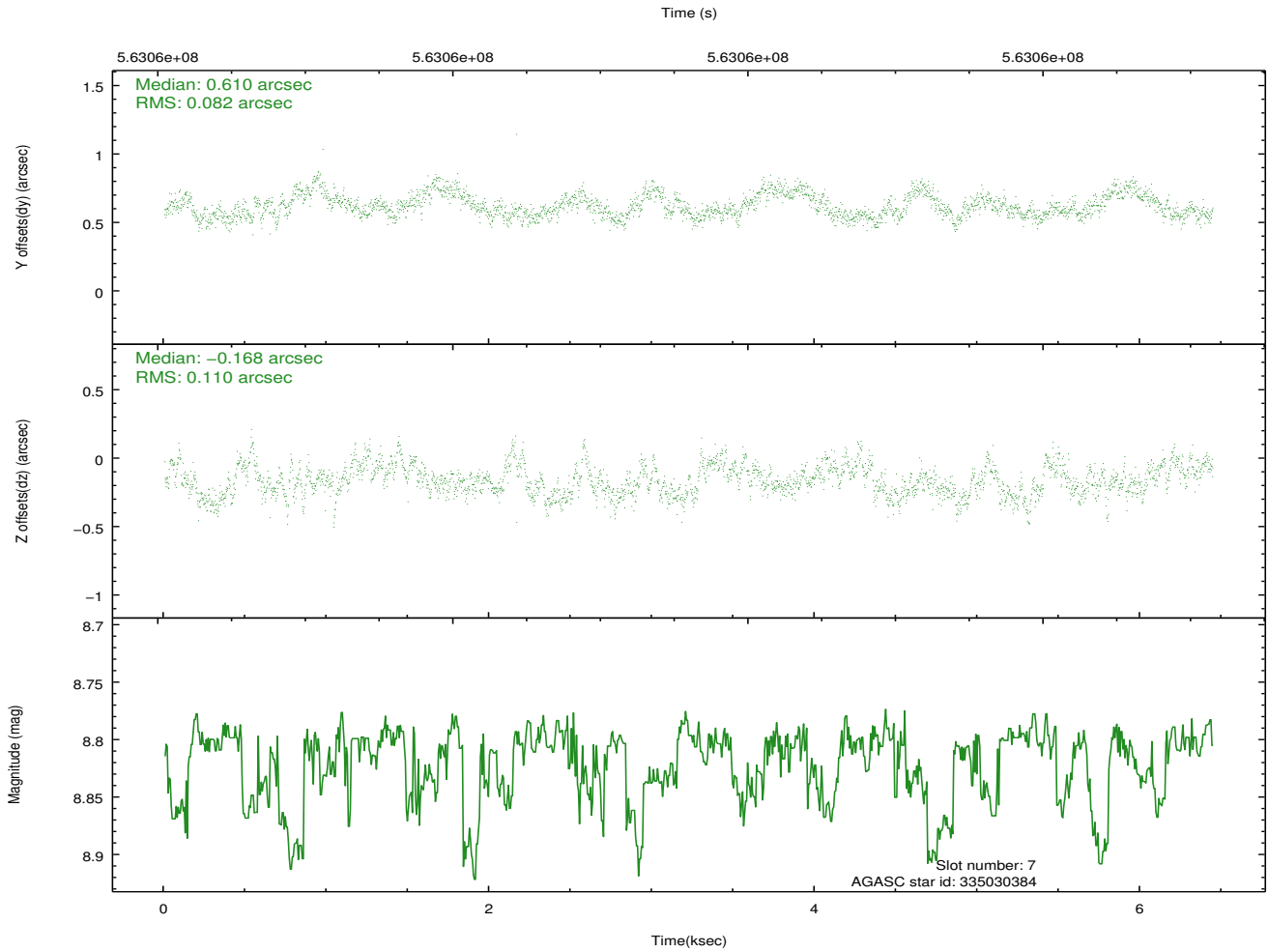
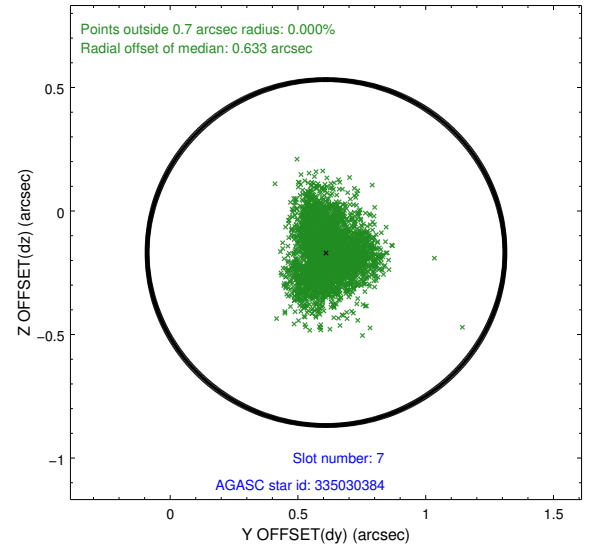
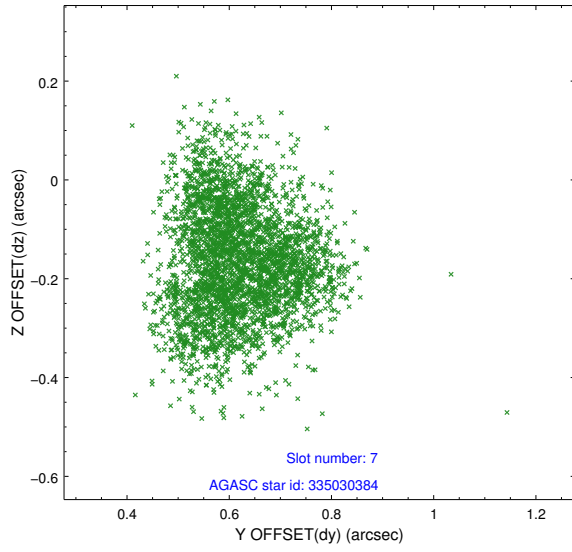
2.4.3 Slot 5



2.4.4 Slot 6

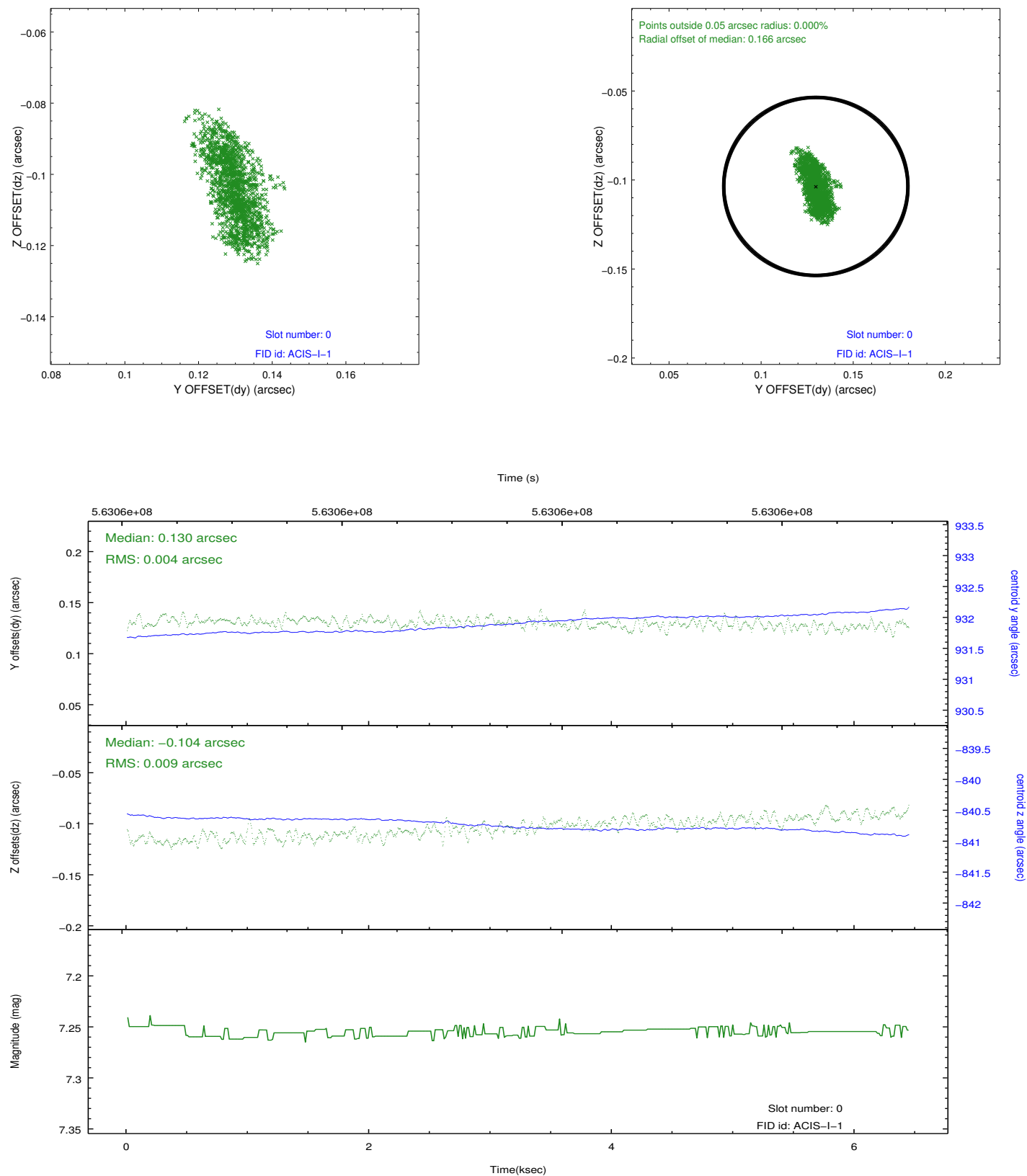


2.4.5 Slot 7

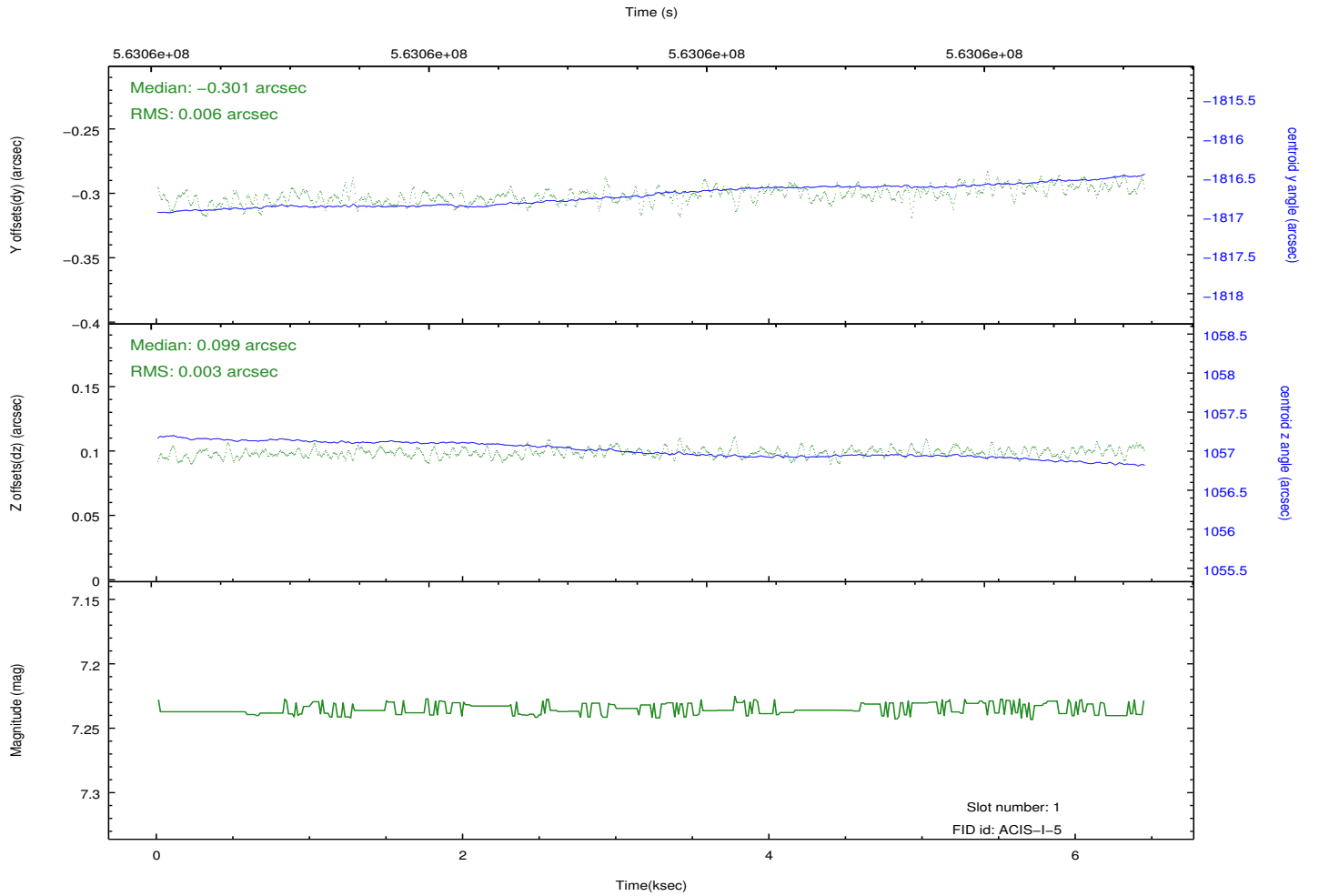
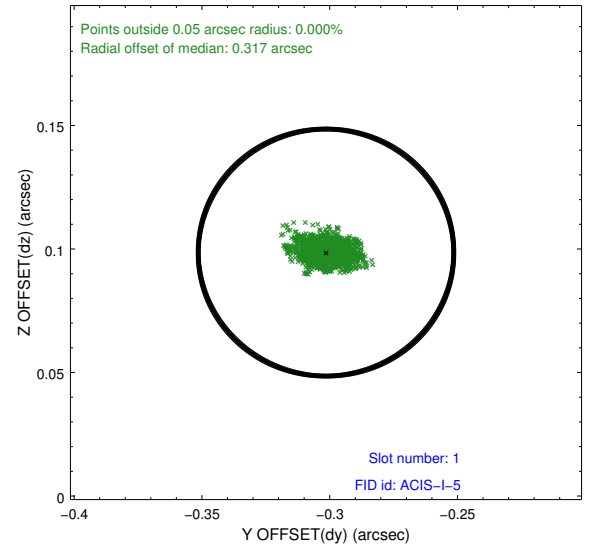
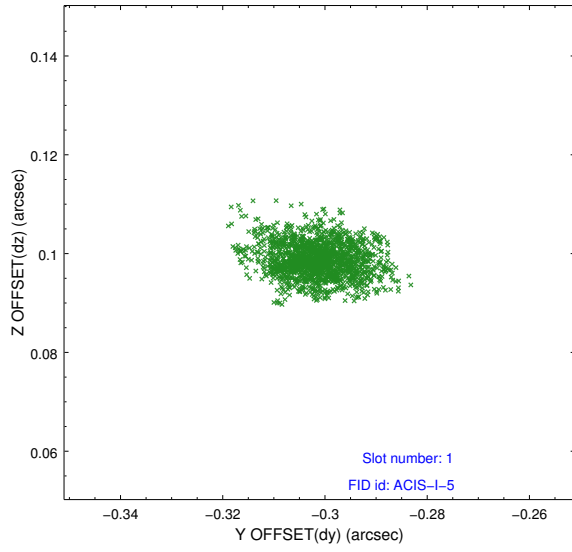


2.5 FID Slots

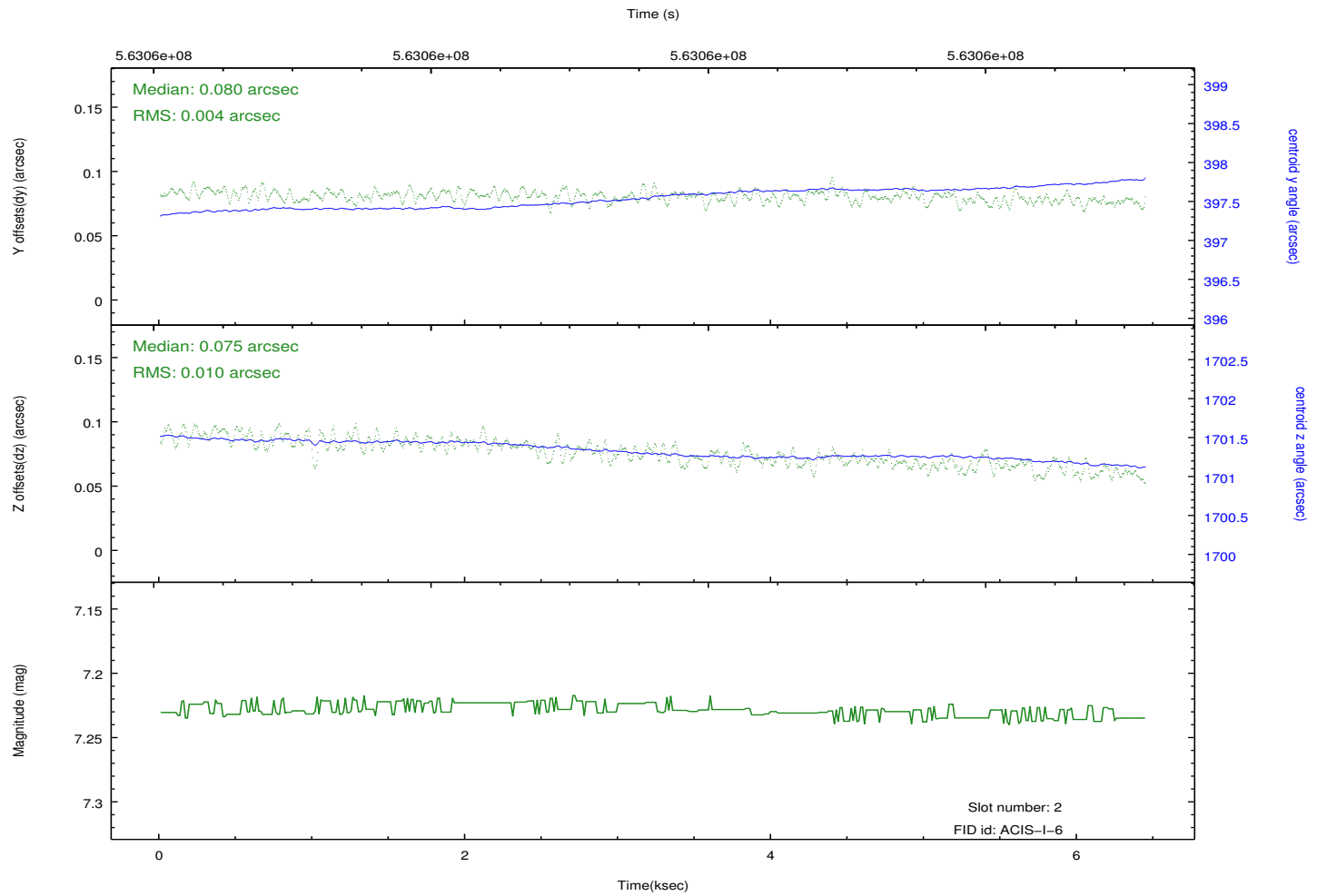
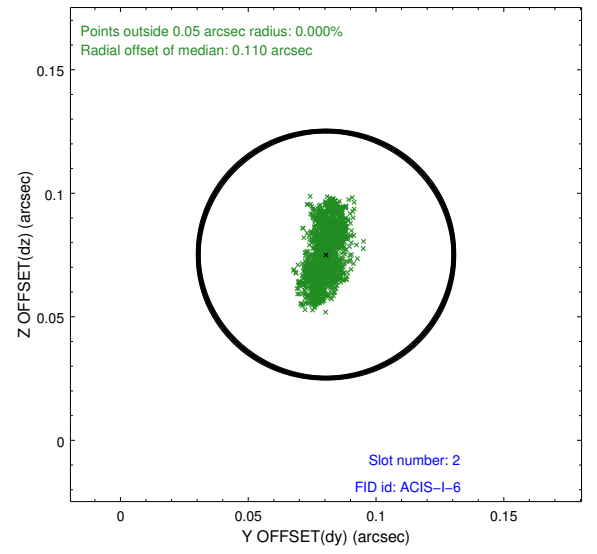
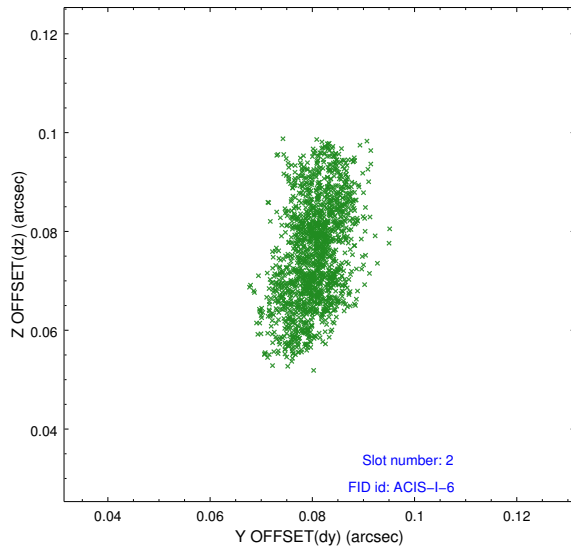
2.5.1 Slot 0



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)	2015.11.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0064000895023

A.2 Comments

Roll preference met.