

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 18478 - L2 Version 1
Chandra X-Ray Center

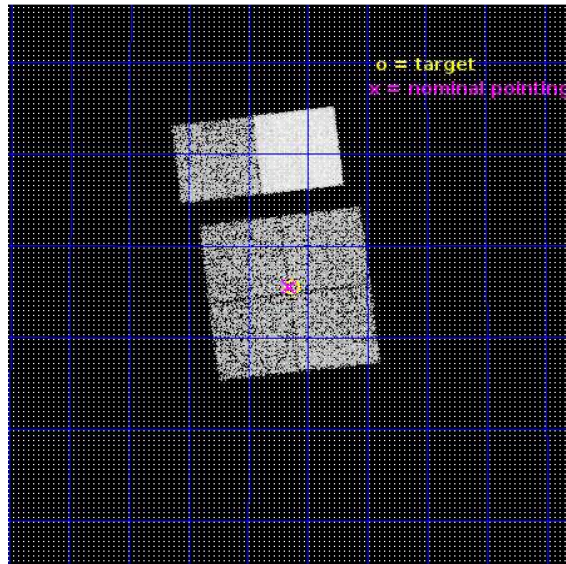
L2 Processing Date : Oct 27 2016

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1 Front

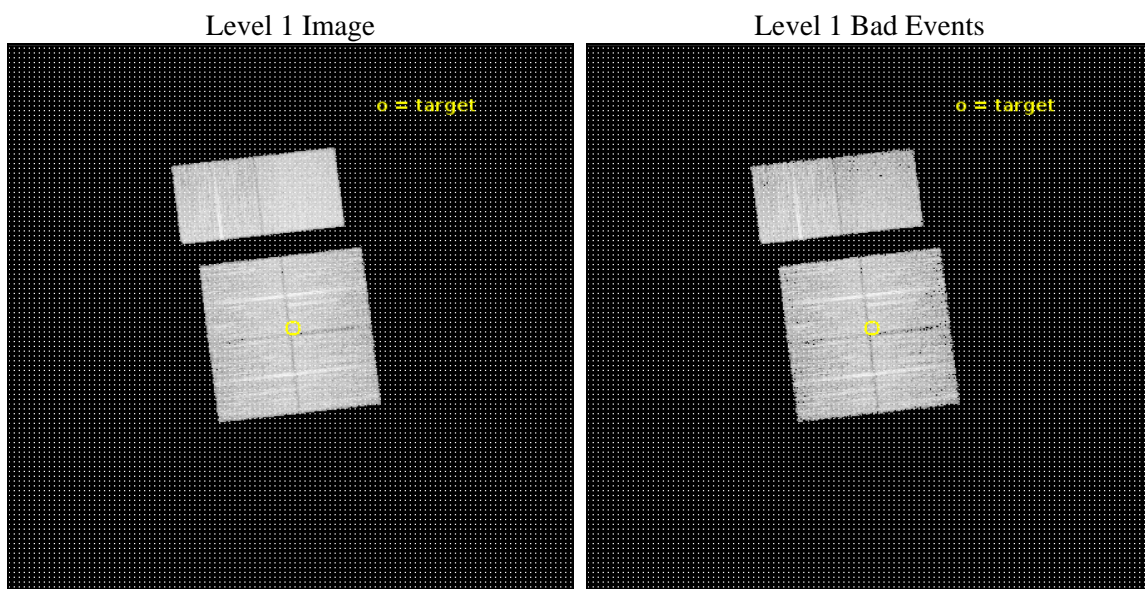
seq_num	901211	Sequence number
obs_id	18478	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.03096	Observer's specified target RA [deg]
dec_targ	33.924389	Observer's specified target Dec [deg]
ra_nom	217.03837252386	Nominal RA [deg]
dec_nom	33.926088447094	Nominal Dec [deg]
roll_nom	353.20464172411	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9750.3590849638	Sum of GTIs [s]
livetime	9626.8941672686	Livetime [s]
ontime0	9753.60014534	Sum of GTIs [s]
ontime1	9753.60014534	Sum of GTIs [s]
ontime2	9753.60014534	Sum of GTIs [s]
ontime3	9750.3590849638	Sum of GTIs [s]
ontime6	9753.60014534	Sum of GTIs [s]
ontime7	9753.60014534	Sum of GTIs [s]
l2events	64924	Number of level 2 events



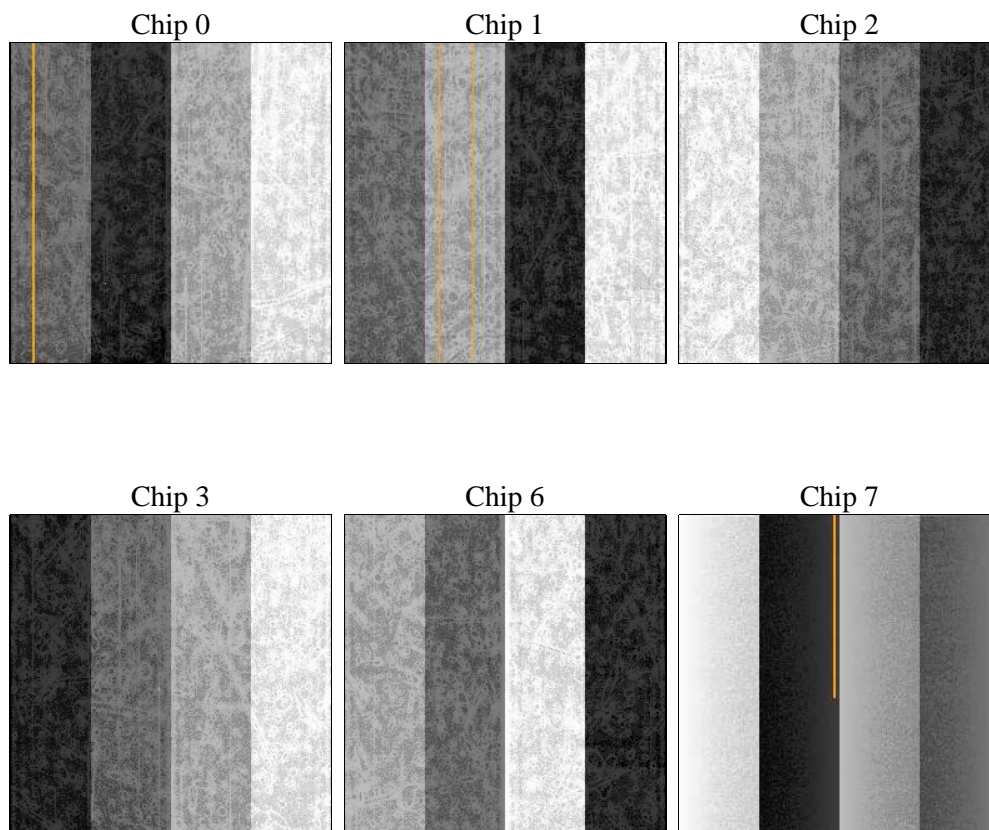
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	9750.3590849638	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	9753.60014534	Sum of GTIs [s]
date	2016-10-27T10:52:26	Date and time of file creation	ontime1	9753.60014534	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	9753.60014534	Sum of GTIs [s]
			ontime3	9750.3590849638	Sum of GTIs [s]
			ontime6	9753.60014534	Sum of GTIs [s]
			ontime7	9753.60014534	Sum of GTIs [s]
			l1events	399275	Number of level 1 events

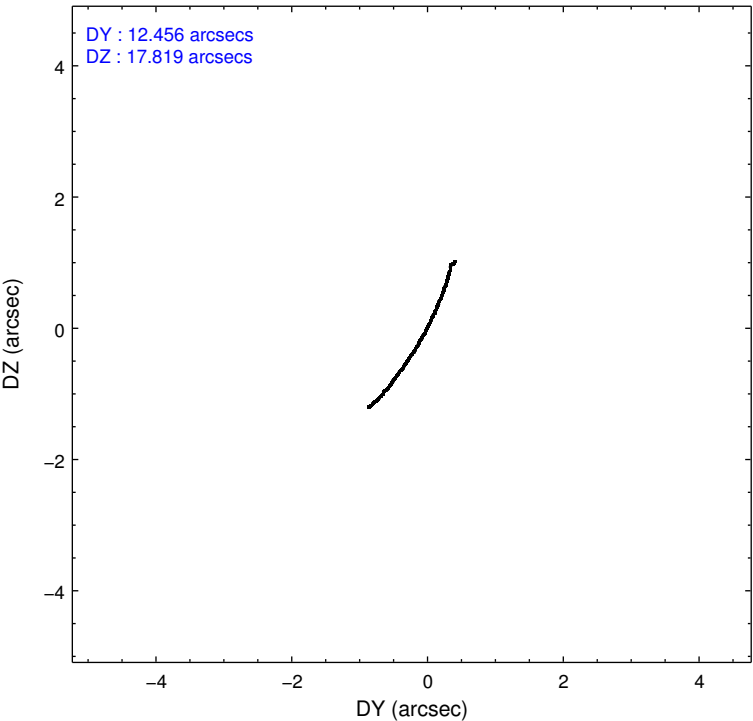
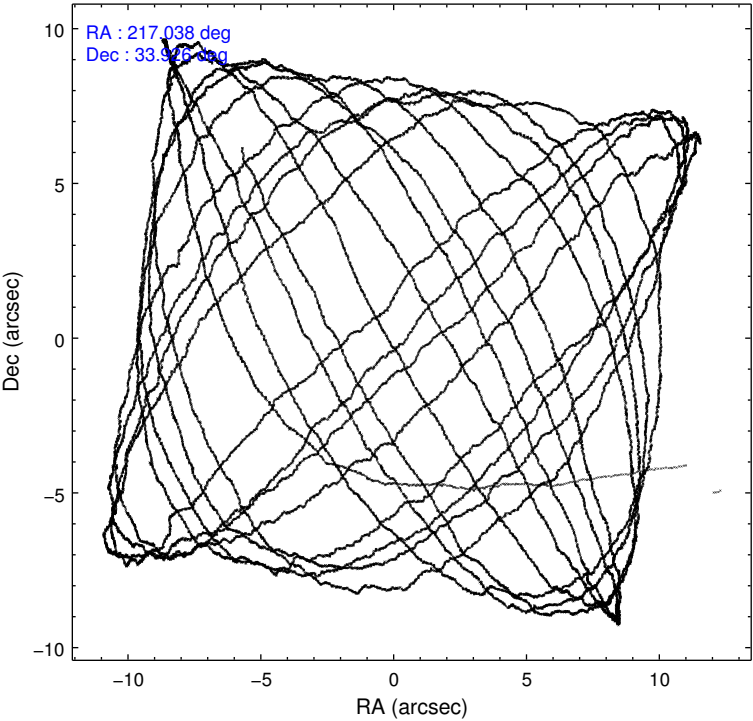
2.1.4 Events

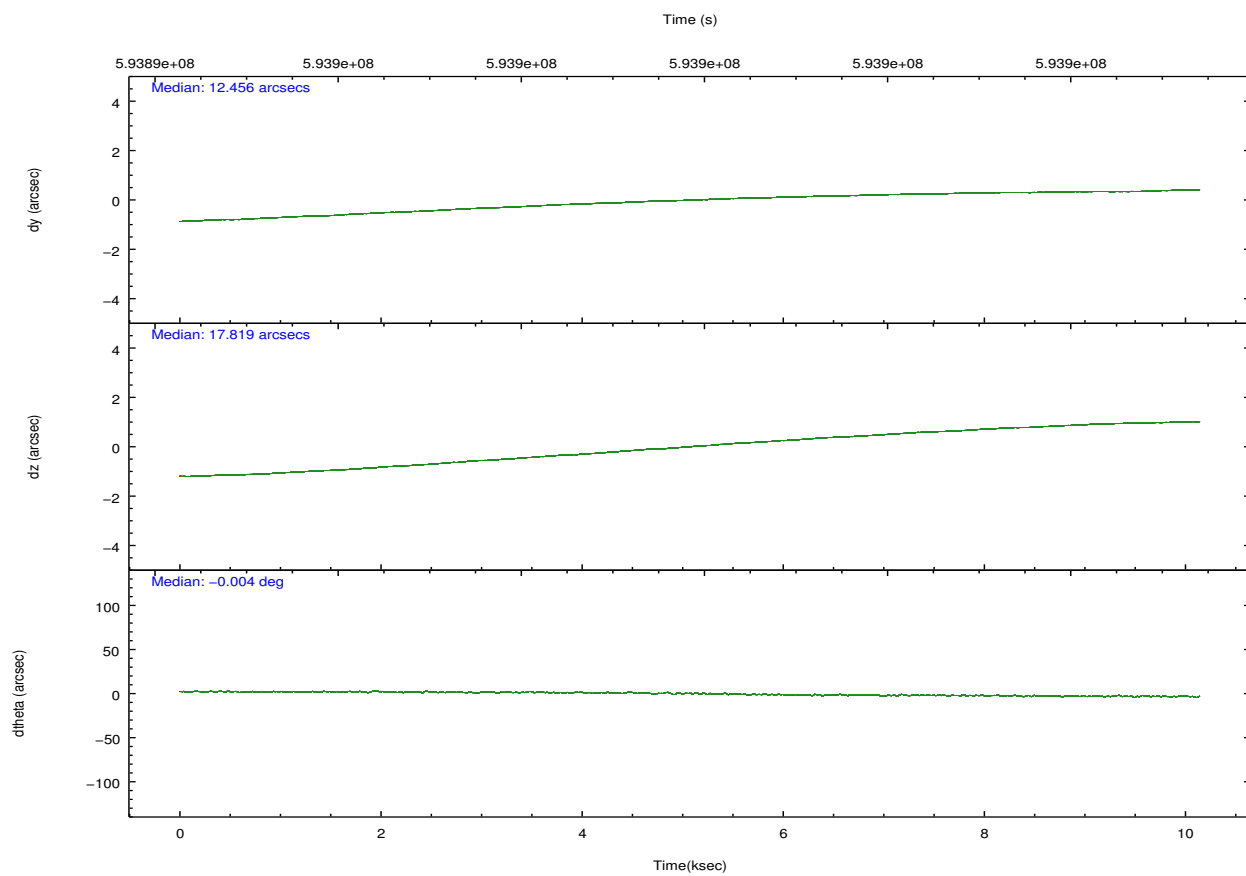
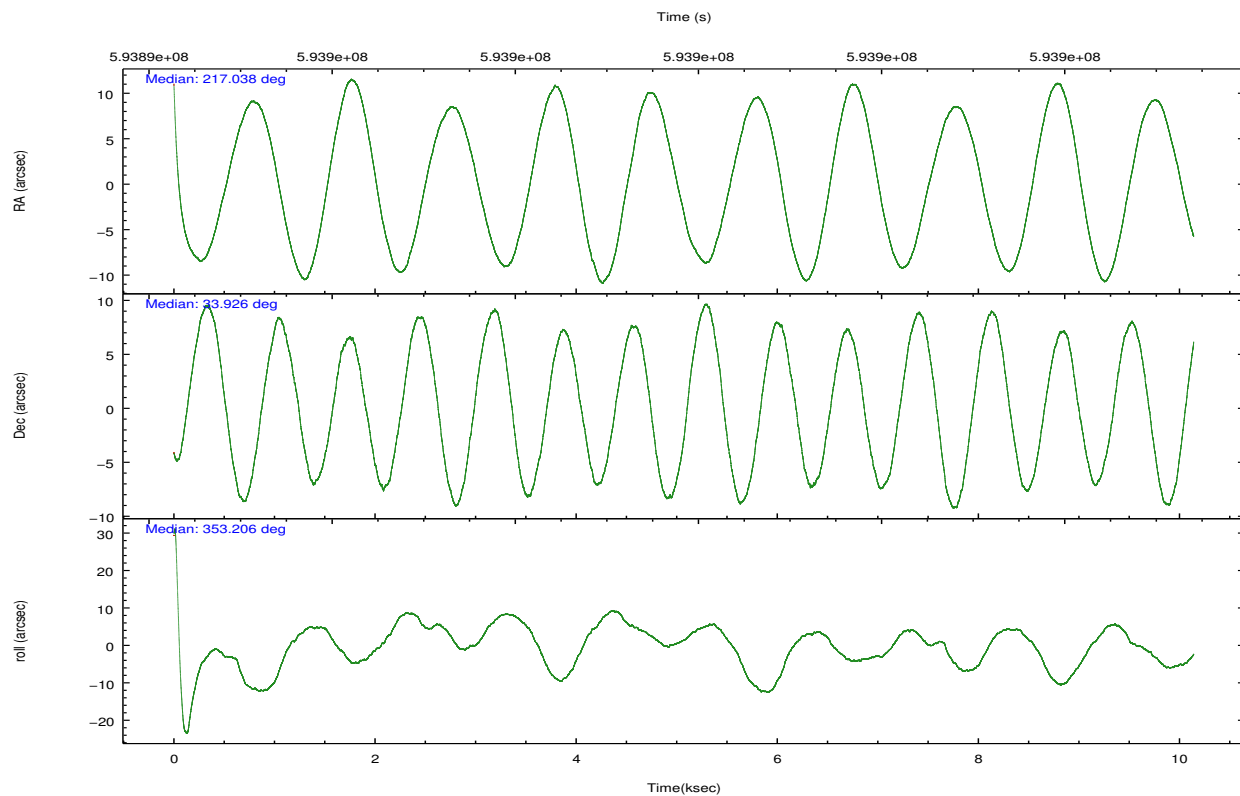
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	59836	59222	65075	63001	69043	83098	grade 0 events	2408	2555	2392	2368	2336	2867
rejected events	52756	51448	58295	56240	61779	47556		4%	4%	3%	3%	3%	3%
rejected %	88%	86%	89%	89%	89%	57%	grade 1 events	27	32	36	43	34	121
								0%	0%	0%	0%	0%	0%
							grade 2 events	1770	1905	1615	1475	1750	7528
								2%	3%	2%	2%	2%	9%
							grade 3 events	730	762	674	694	682	2754
								1%	1%	1%	1%	0%	3%
							grade 4 events	708	756	700	726	689	2713
								1%	1%	1%	1%	0%	3%
							grade 5 events	2678	2696	2438	3154	2967	8191
								4%	4%	3%	5%	4%	9%
							grade 6 events	1465	1799	1404	1499	1807	19693
								2%	3%	2%	2%	2%	23%
							grade 7 events	50050	48717	55816	53042	58778	39231
								83%	82%	85%	84%	85%	47%

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	217.007860	217.0383725238573	CCD I2 on	Y	Y
[deg] Pointing Dec	33.915130	33.92608844709405	CCD I3 on	Y	Y
[deg] Pointing Roll	353.012890	353.2046417241091	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)	593894898.184000	593893719.67038	CCD S5 on	N	N
Observation start date	2016-10-26T18:47:10	2016-10-26T18:28:39	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	593904898.184000	593905987.38359	On-chip summing requested	N	N
Observation end date	2016-10-26T21:33:50	2016-10-26T21:53:07	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



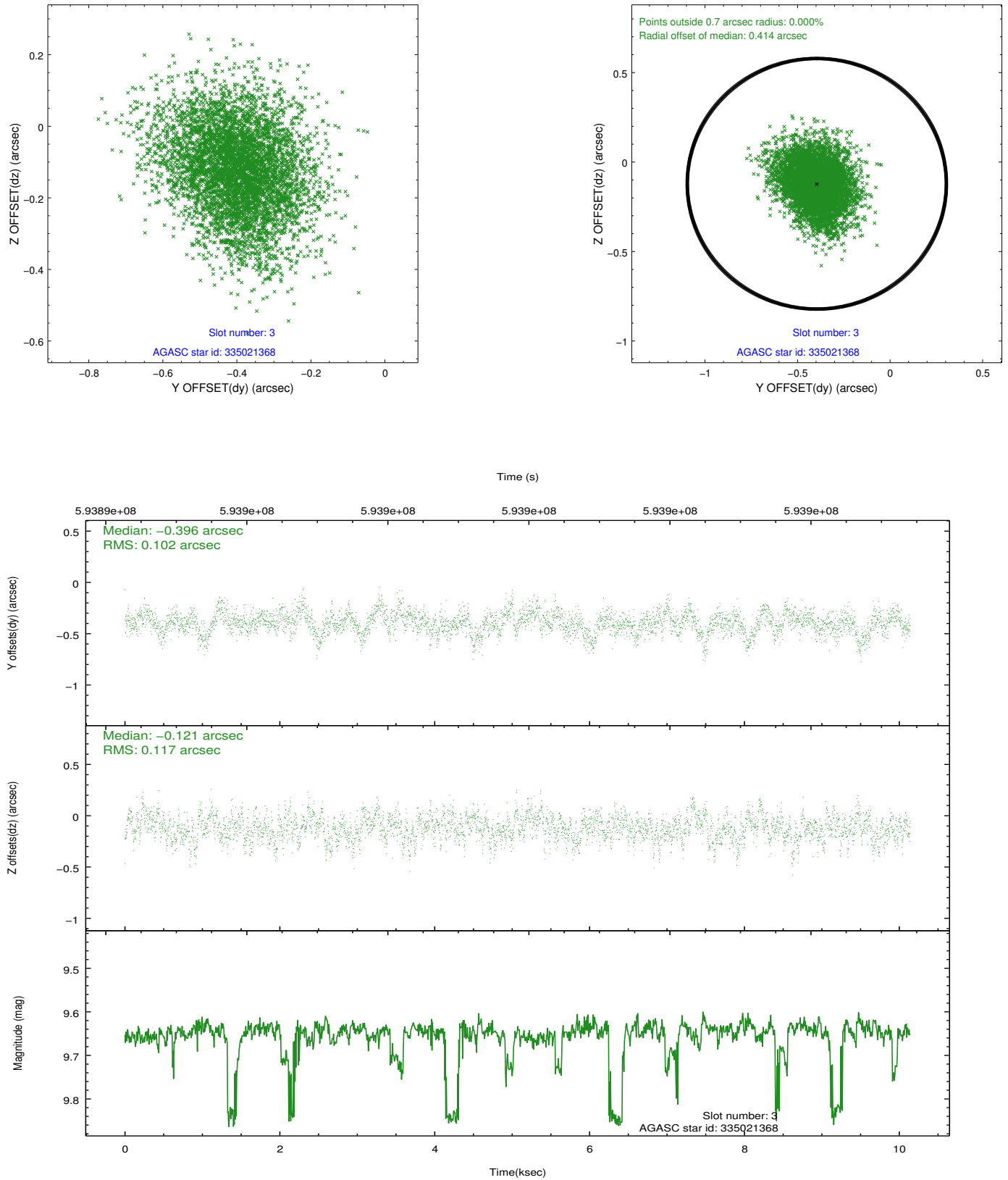


Slot Statistics

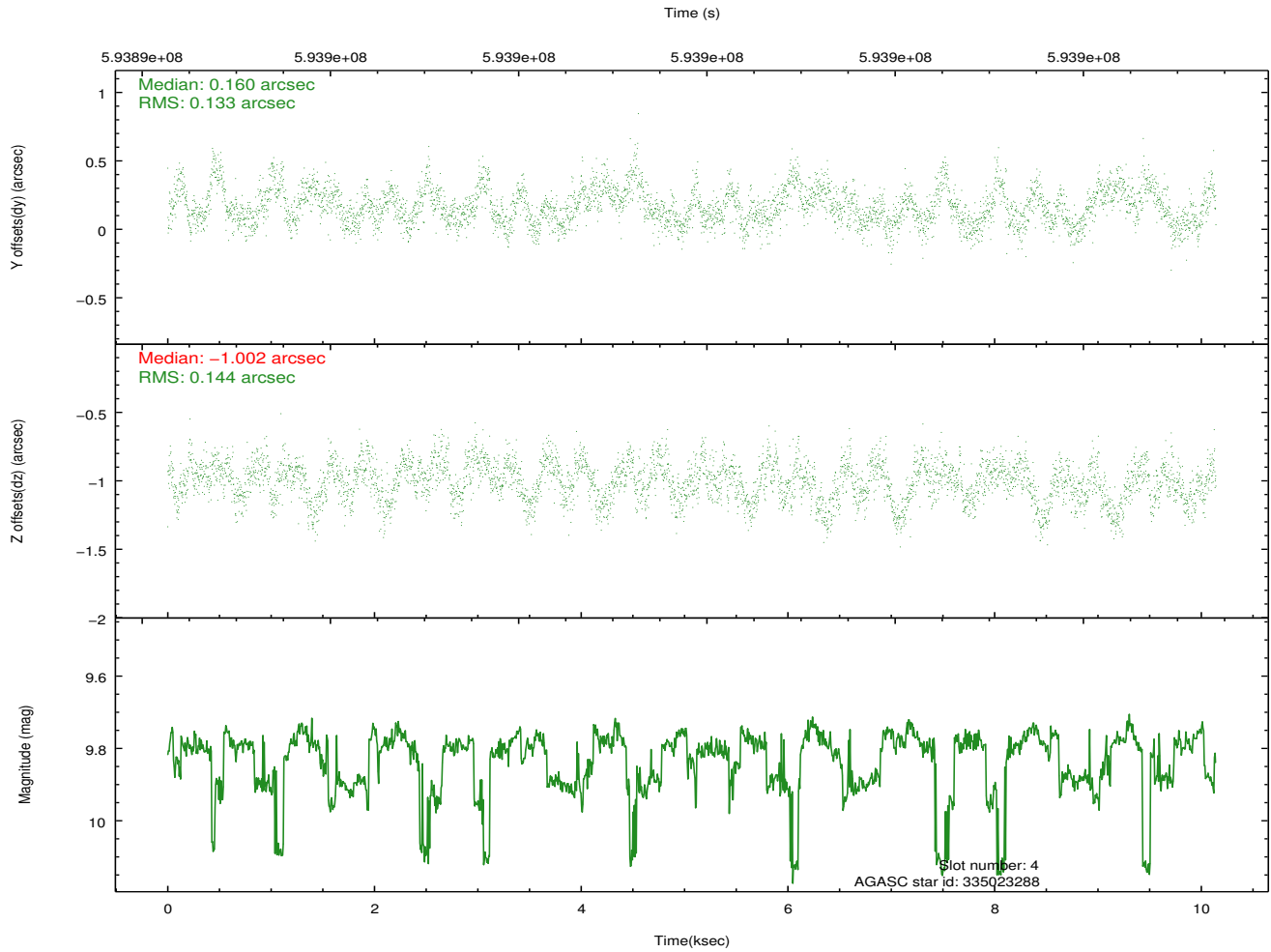
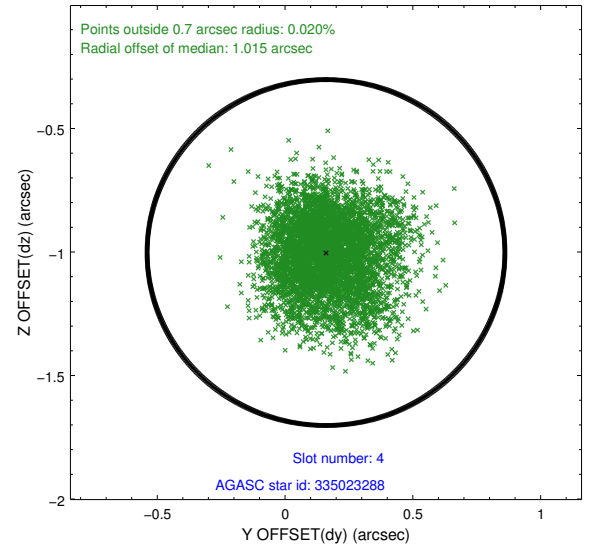
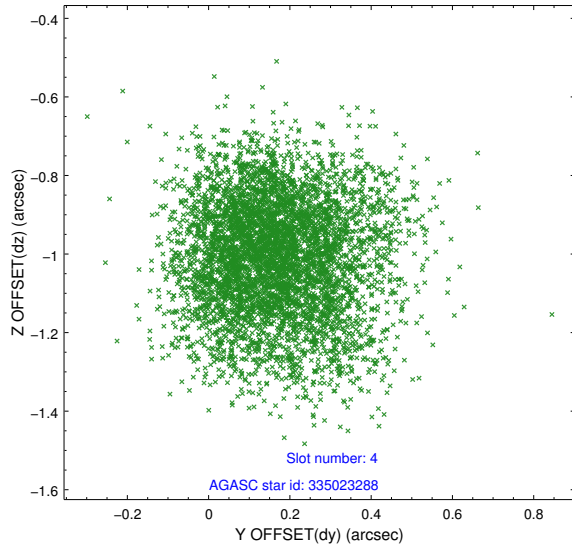
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.21	2474	0.084	-0.043	0.046	0.058	0.000000	0.000000	927.28	-841.47
1	FID		ACIS-I-5	7.22	2474	-0.325	0.051	0.014	0.020	0.000000	0.000000	-1821.00	1055.76
2	FID		ACIS-I-6	7.21	2473	0.152	0.058	0.031	0.059	0.000000	0.000000	392.25	1700.94
3	GUIDE	used	335021368	9.65	4937	-0.396	-0.121	0.164	0.273	217.529643	33.934817	1537.46	263.82
4	GUIDE	used	335023288	9.81	4928	0.160	-1.002	0.207	0.336	217.791365	34.425735	2085.30	2115.61
5	GUIDE	used	335025848	9.68	4936	0.045	0.473	0.188	0.316	217.530531	33.778292	1612.34	-293.79
6	GUIDE	used	335028240	9.13	4946	1.054	0.527	0.135	0.221	216.746851	33.385009	-546.42	-1987.71
7	GUIDE	used	335028696	9.19	4940	-0.870	0.143	0.138	0.227	217.260519	33.844112	779.91	-161.11

2.4 Star Slots

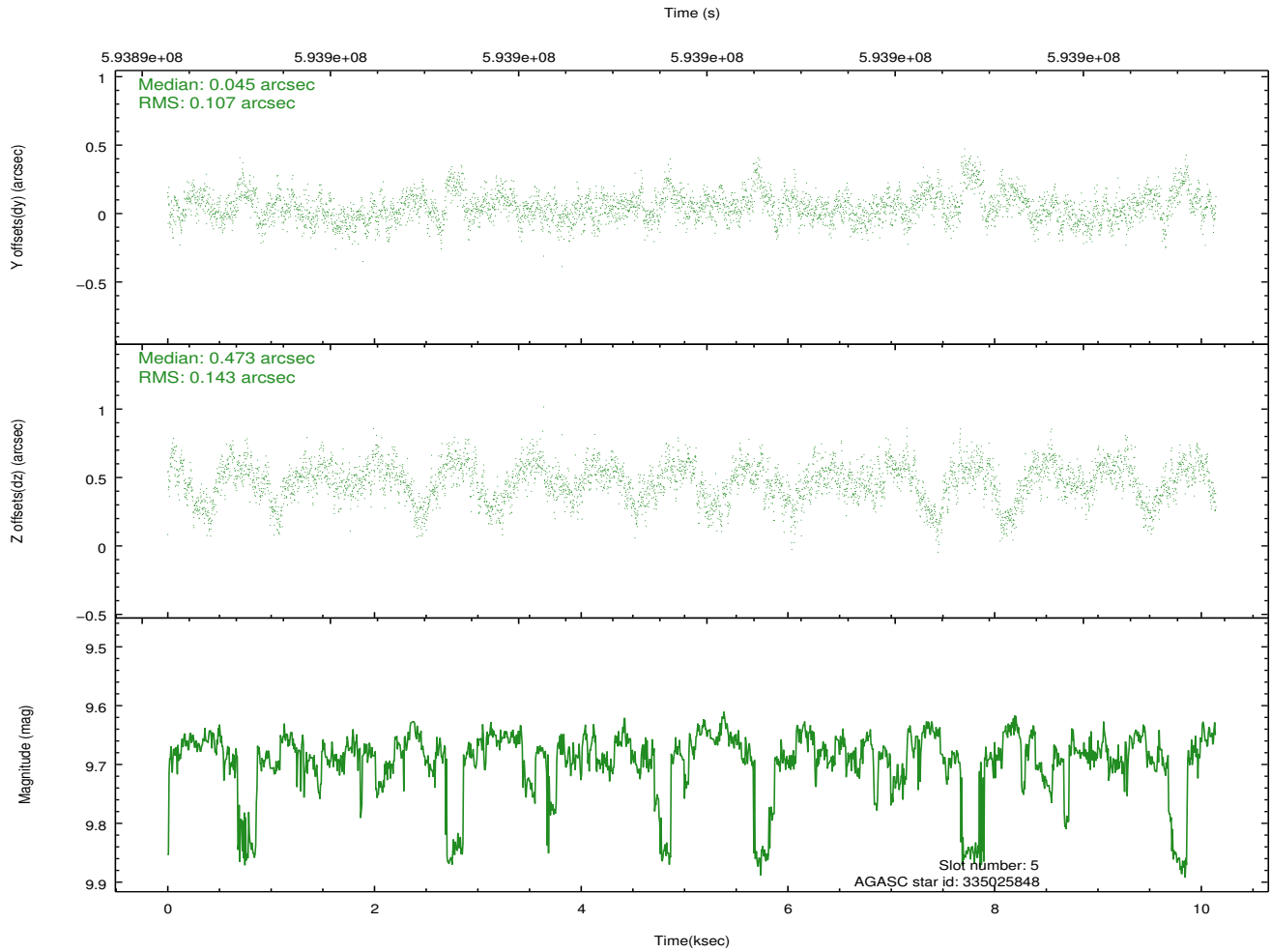
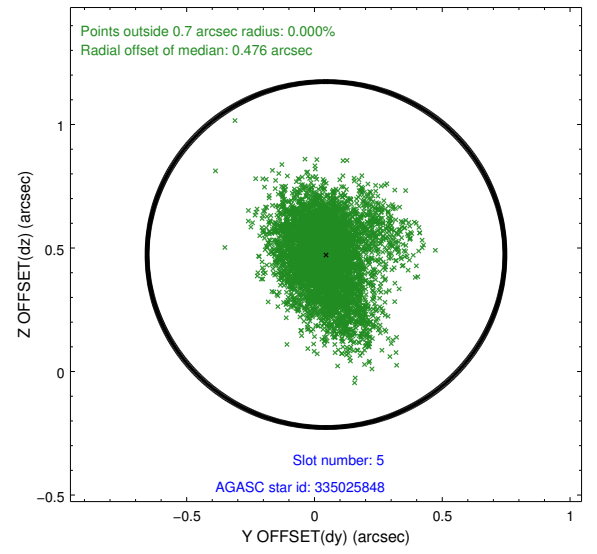
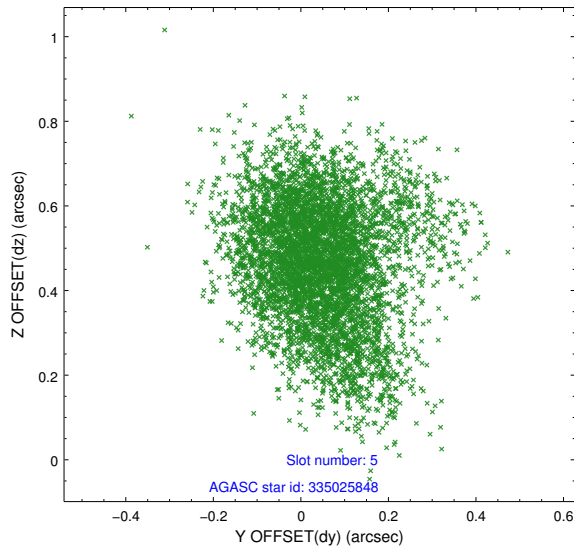
2.4.1 Slot 3



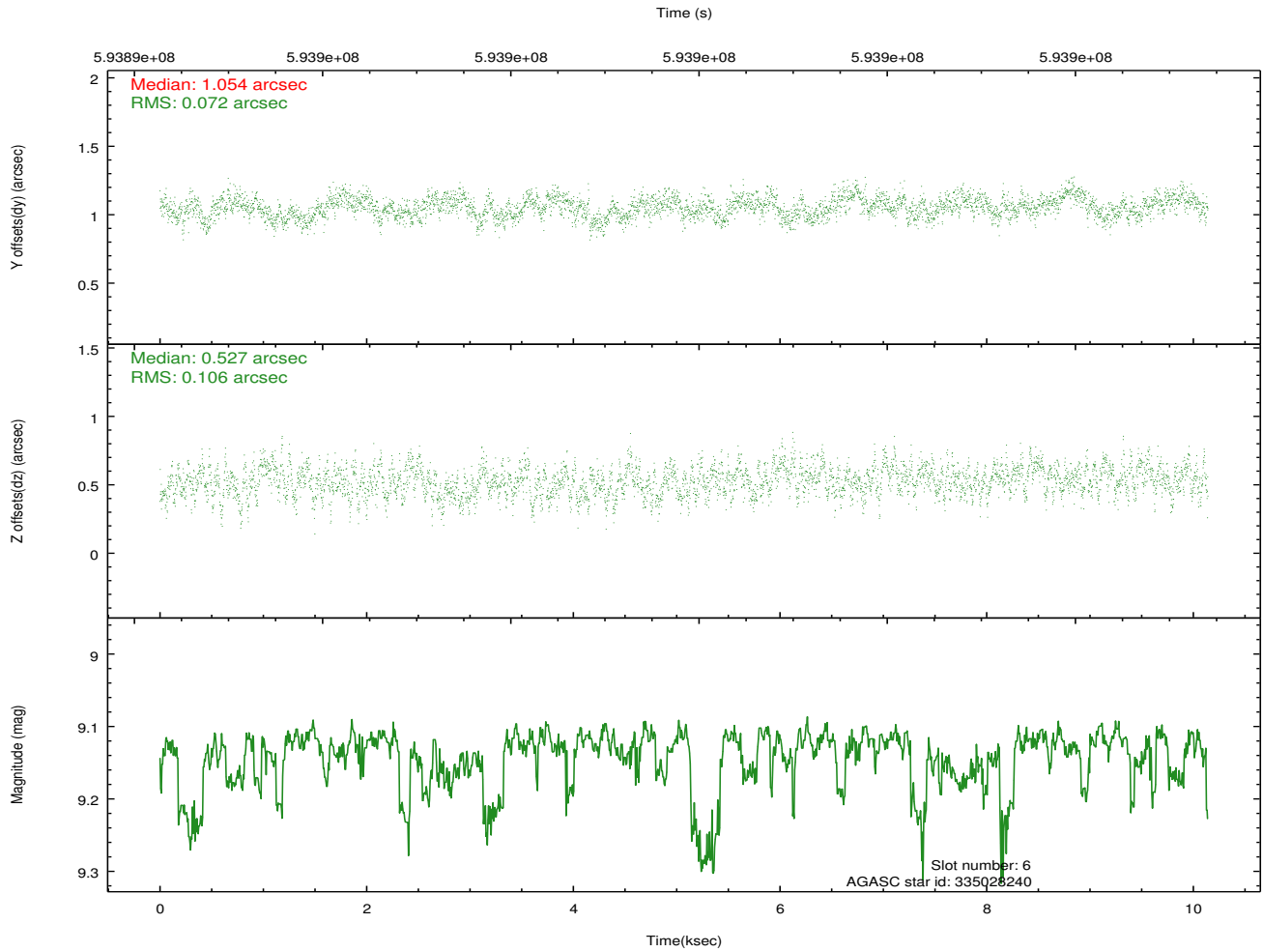
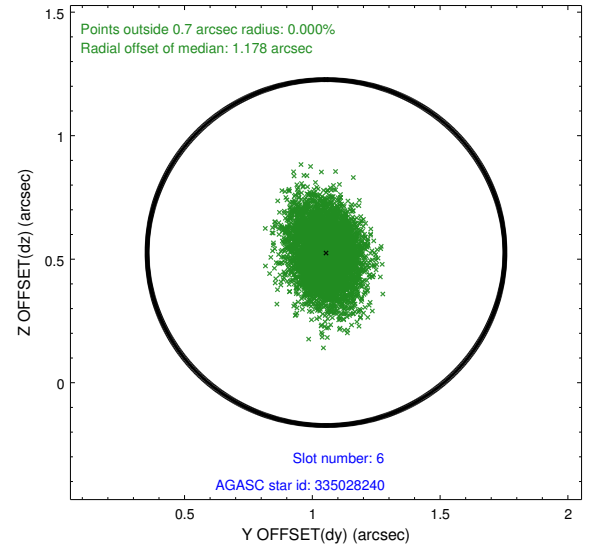
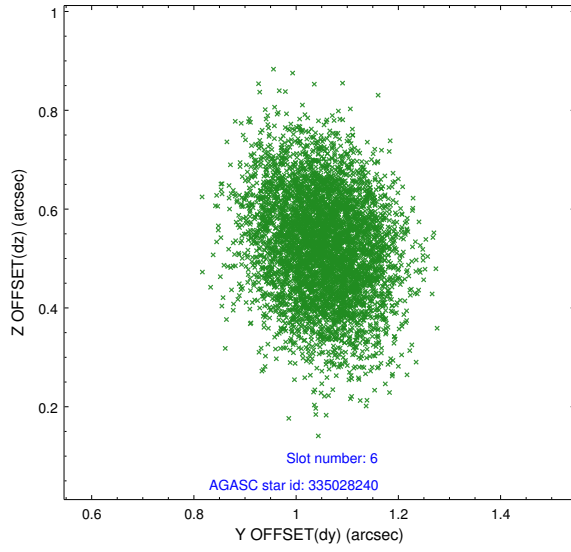
2.4.2 Slot 4



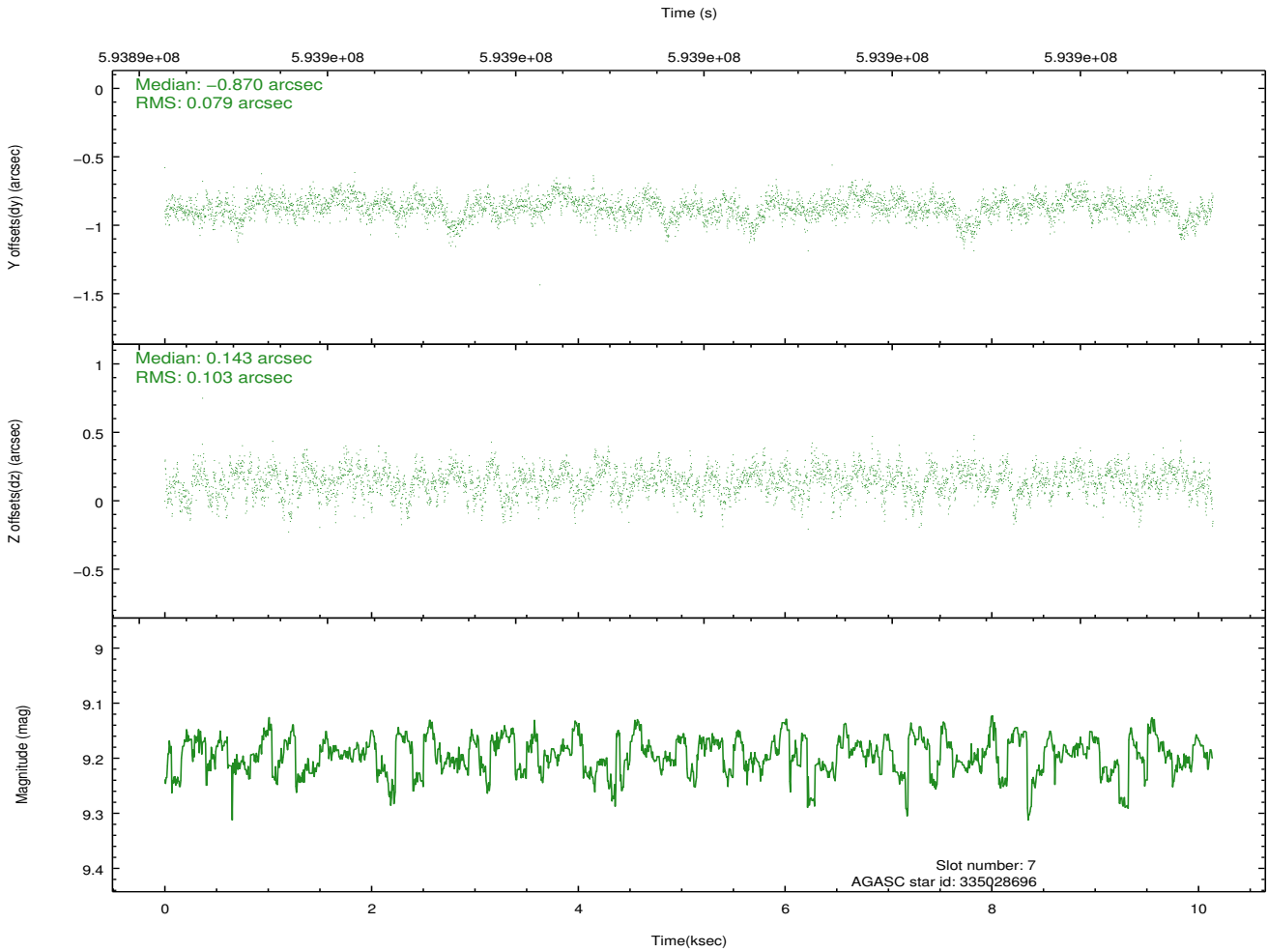
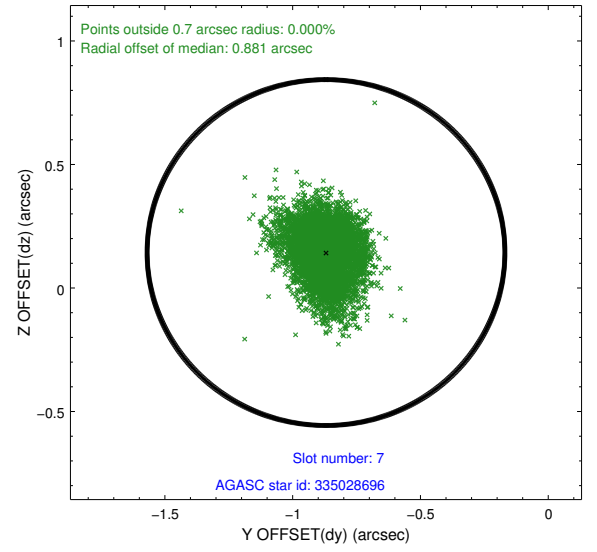
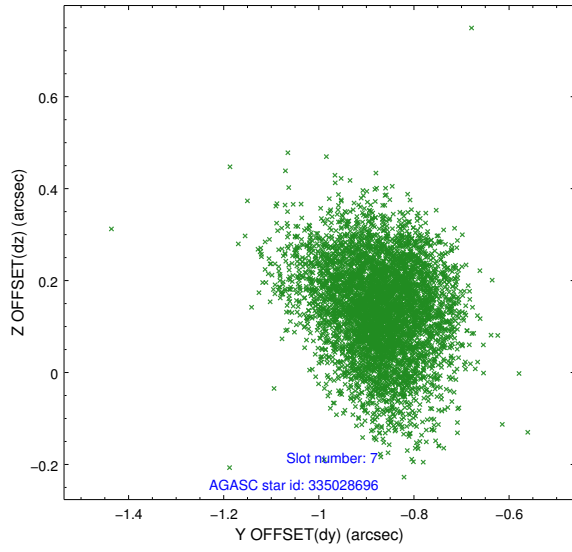
2.4.3 Slot 5



2.4.4 Slot 6

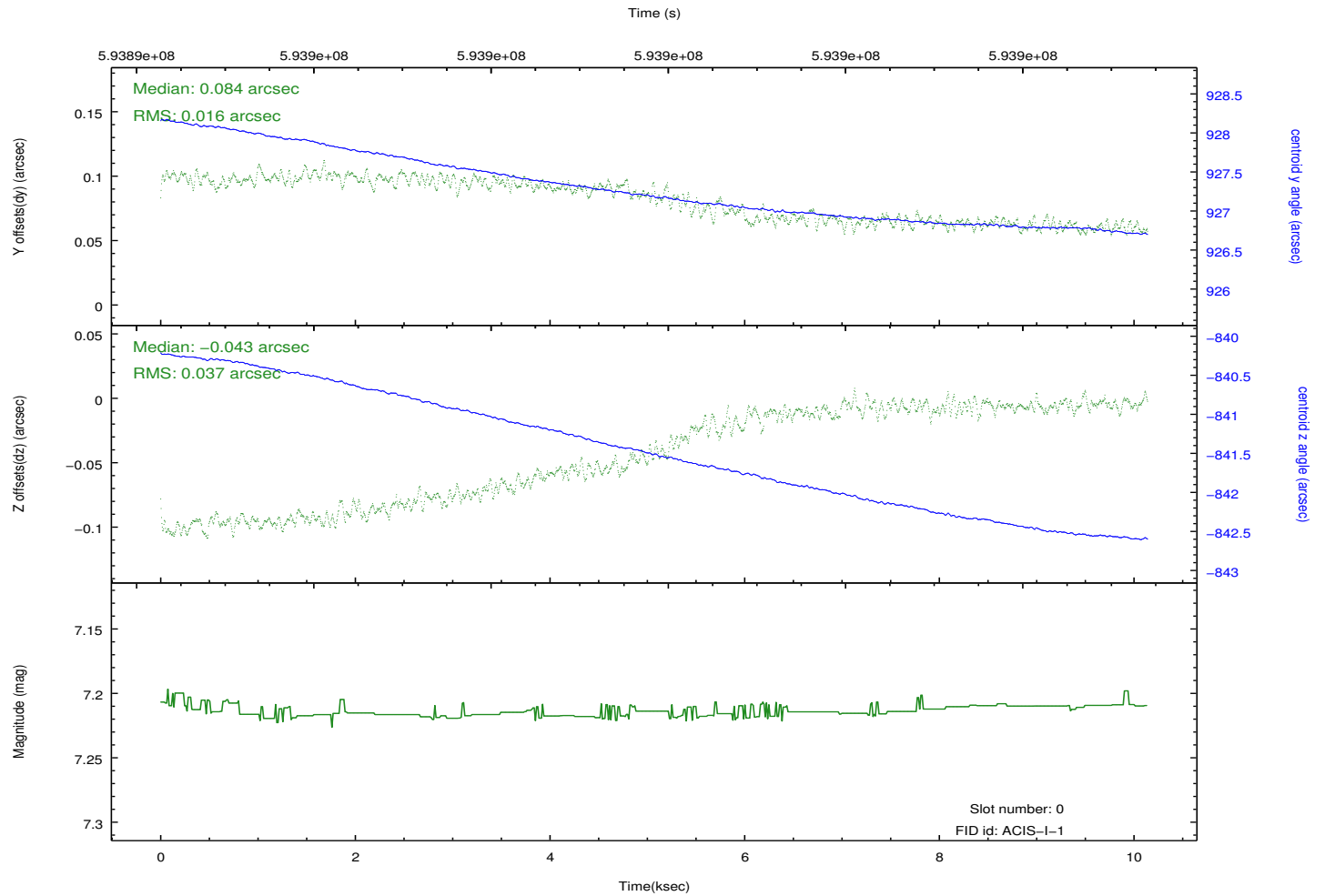
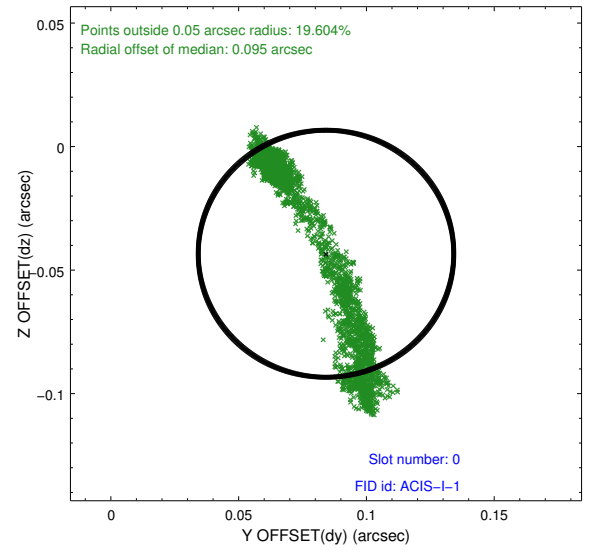
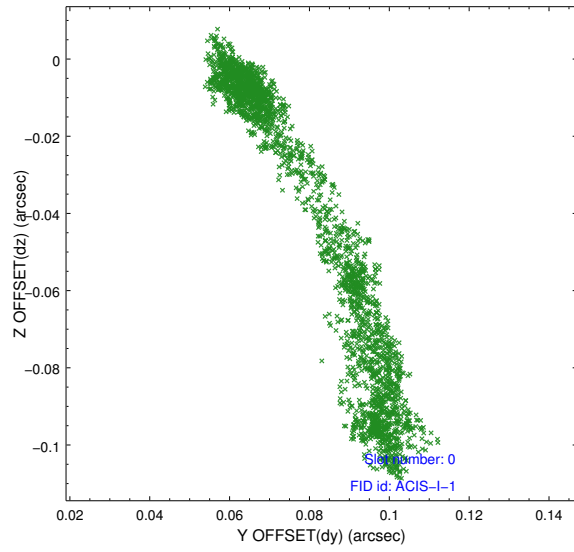


2.4.5 Slot 7

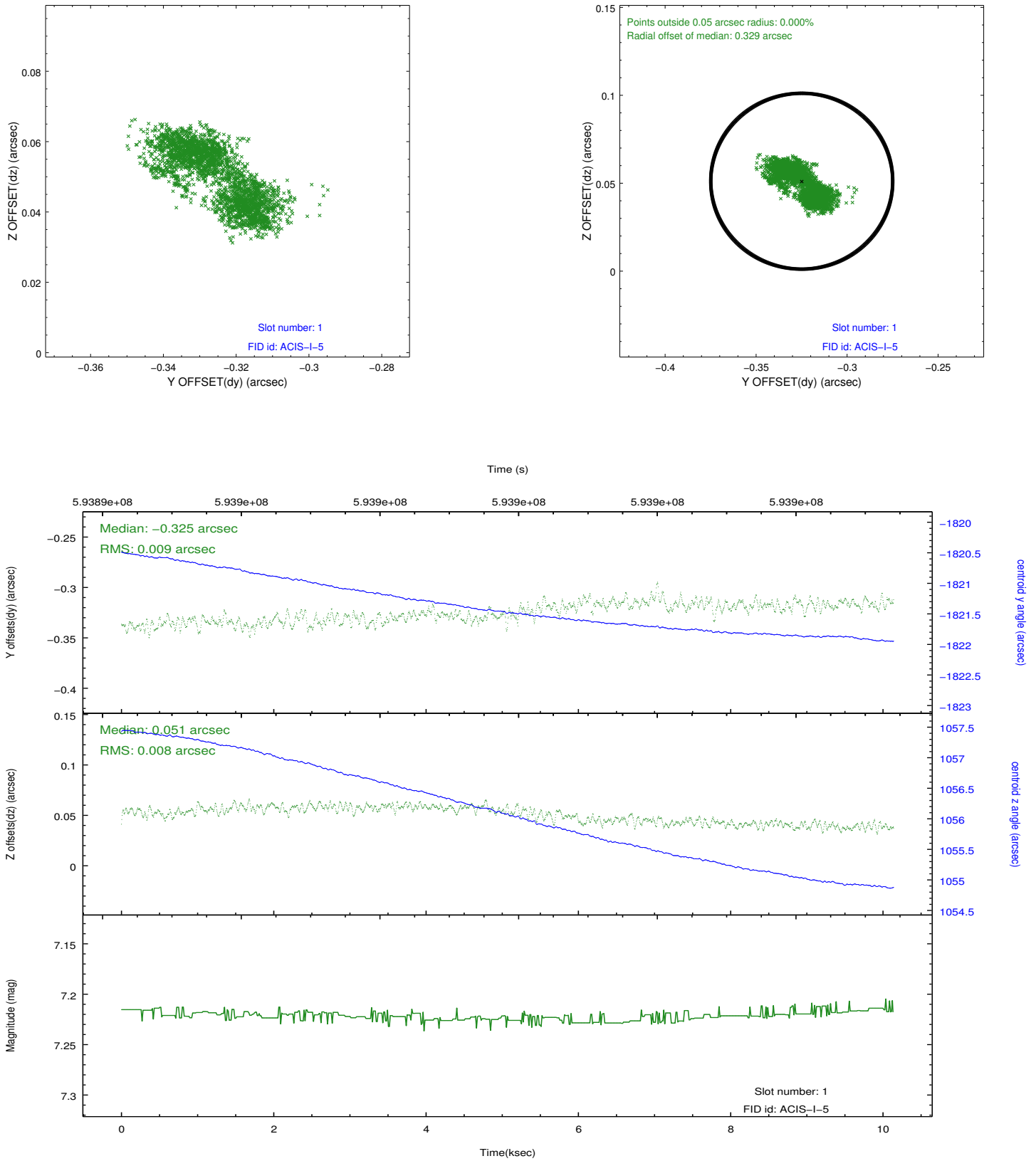


2.5 FID Slots

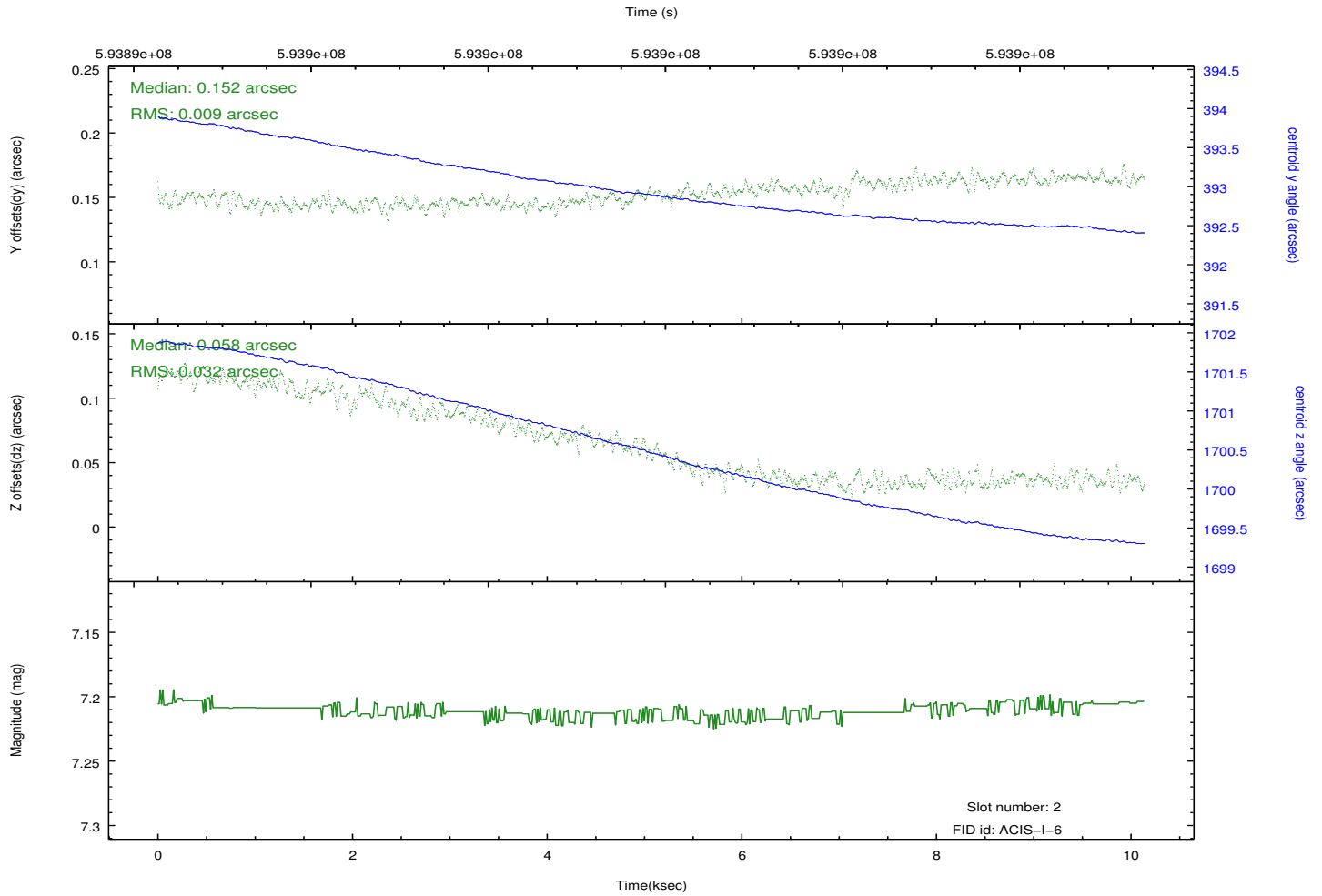
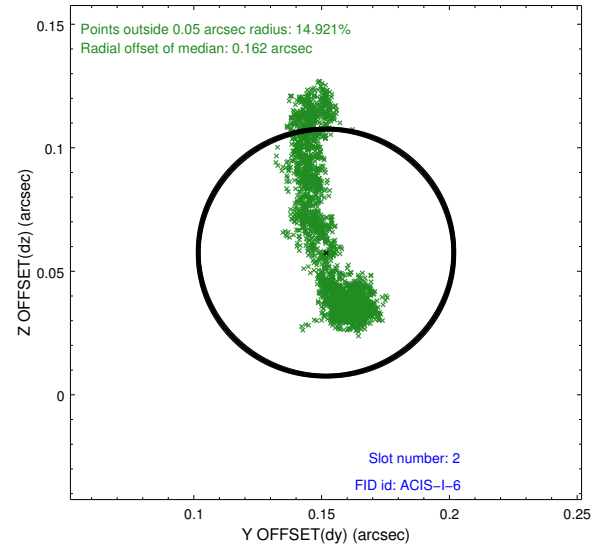
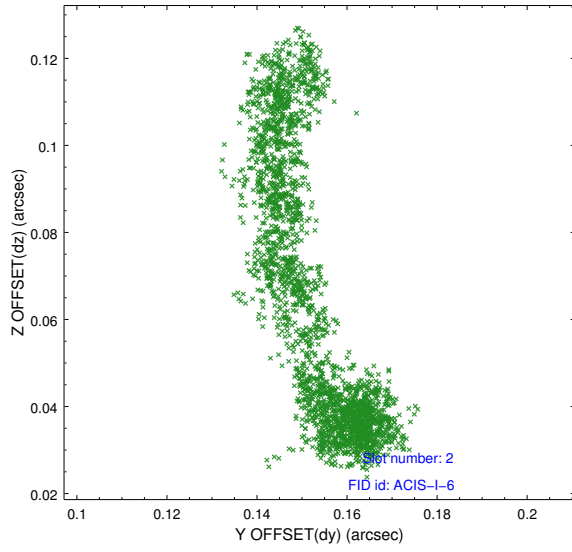
2.5.1 Slot 0



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)	2016.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.7503590849638

A.2 Comments

Roll preference met.