

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18481 - L2 Version 1
Chandra X-Ray Center

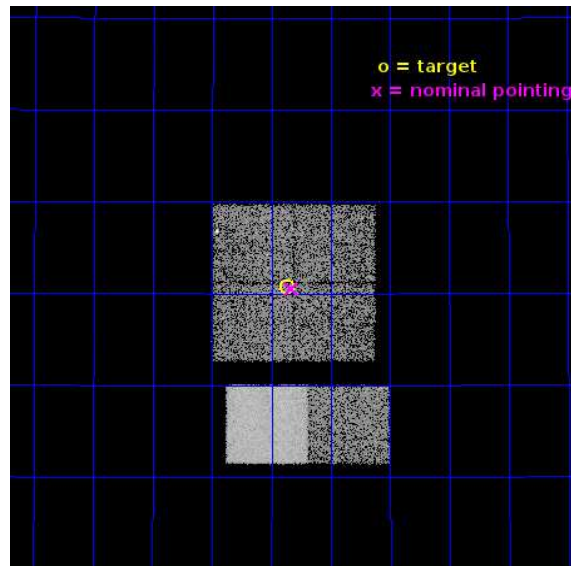
L2 Processing Date : May 13 2016

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1 Front

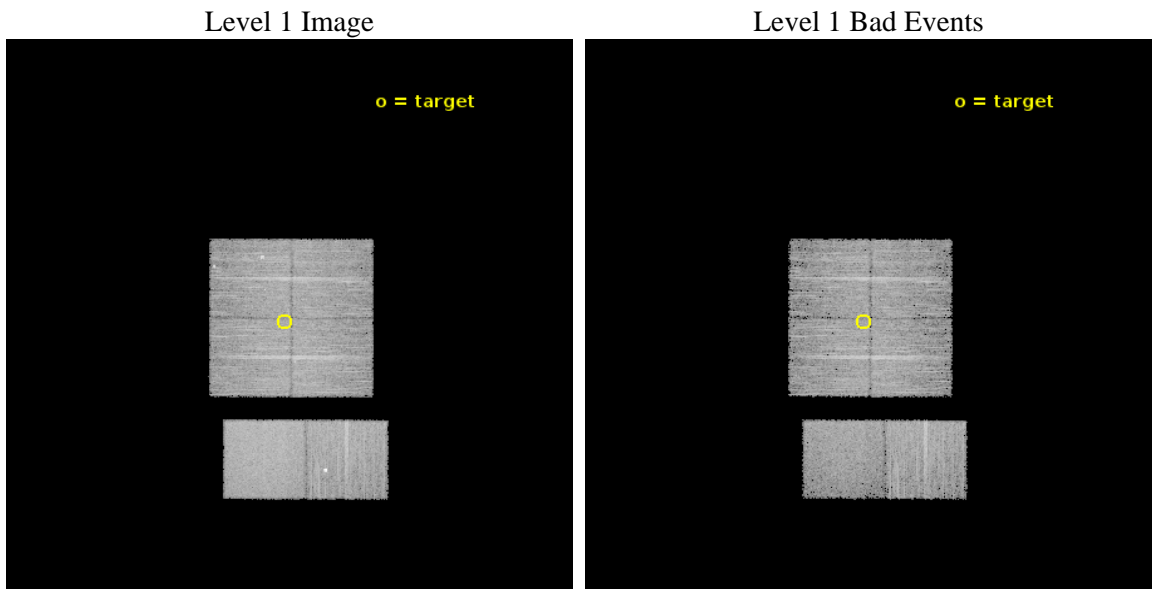
seq_num	901214	Sequence number
obs_id	18481	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.84092	Observer's specified target RA [deg]
dec_targ	34.178139	Observer's specified target Dec [deg]
ra_nom	217.83289129052	Nominal RA [deg]
dec_nom	34.175633057335	Nominal Dec [deg]
roll_nom	180.21321269747	Nominal Roll [deg]
revision	1	Processing version of data
ontime	9958.4001483917	Sum of GTIs [s]
livetime	9832.3008894841	Livetime [s]
ontime0	9958.4001483917	Sum of GTIs [s]
ontime1	9955.1590681076	Sum of GTIs [s]
ontime2	9958.4001483917	Sum of GTIs [s]
ontime3	9958.4001483917	Sum of GTIs [s]
ontime6	9958.4001483917	Sum of GTIs [s]
ontime7	9958.4001483917	Sum of GTIs [s]
l2events	63558	Number of level 2 events



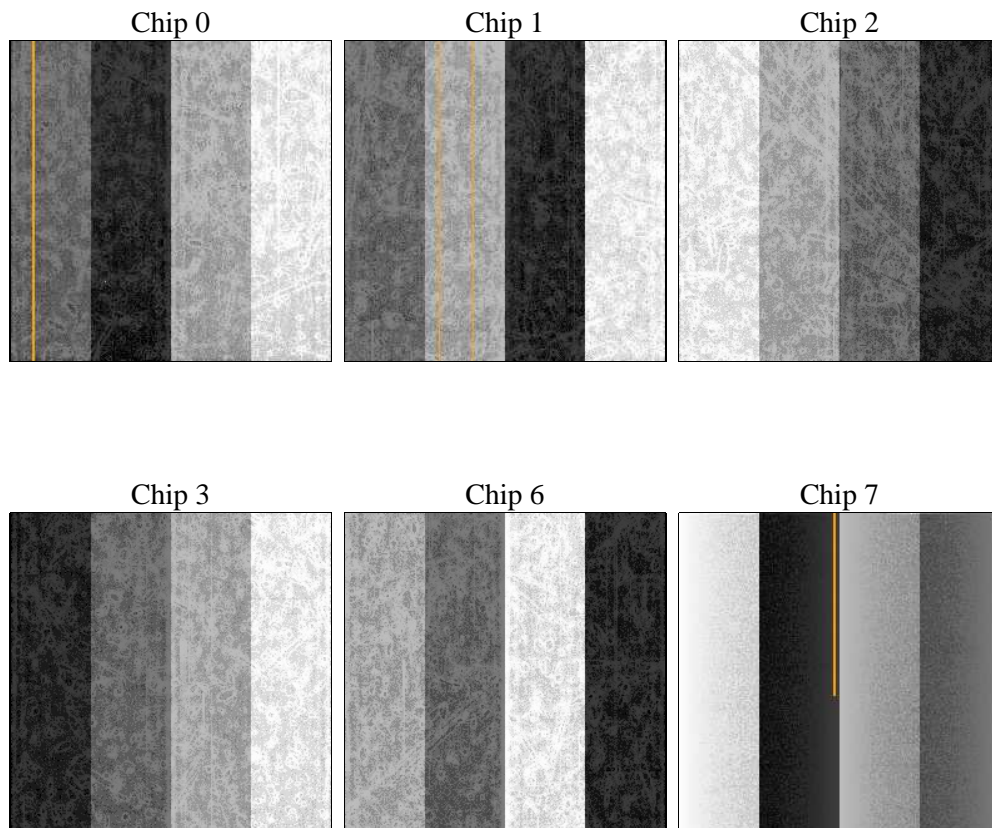
2 OBI

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	10.4.3.1	Processing system revision	ontime	9958.4001483917	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	9958.4001483917	Sum of GTIs [s]
date	2016-05-13T13:50:14	Date and time of file creation	ontime1	9955.1590681076	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	9958.4001483917	Sum of GTIs [s]
			ontime3	9958.4001483917	Sum of GTIs [s]
			ontime6	9958.4001483917	Sum of GTIs [s]
			ontime7	9958.4001483917	Sum of GTIs [s]
			l1events	392705	Number of level 1 events

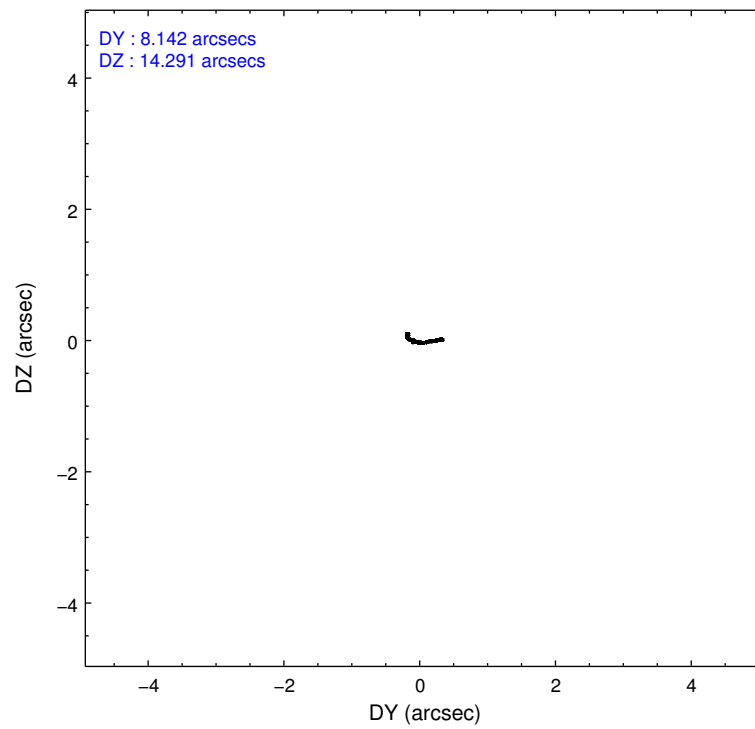
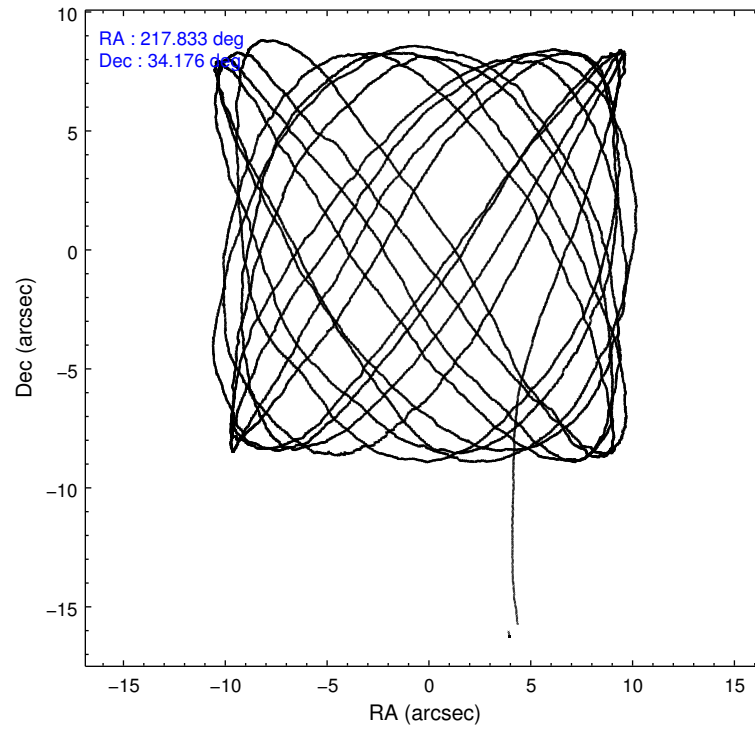
2.1.4 Events

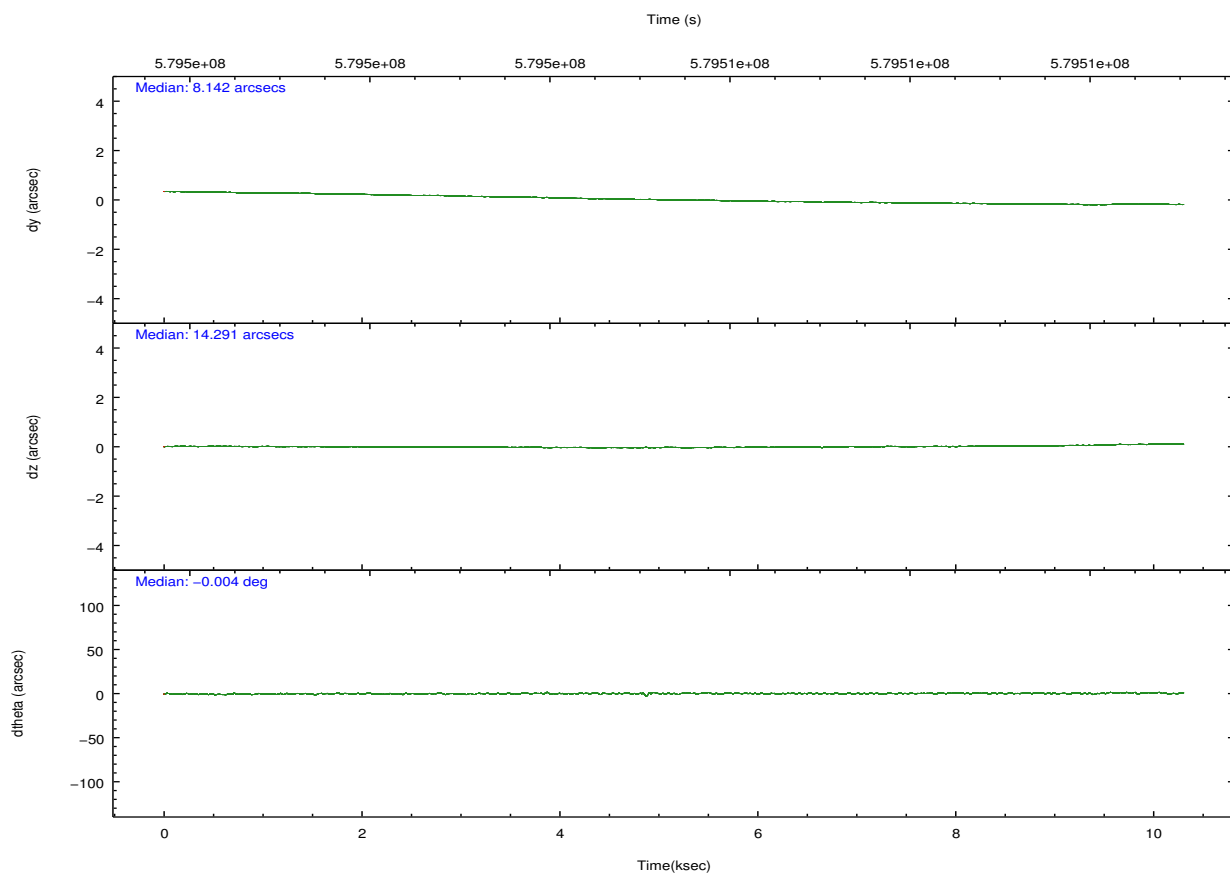
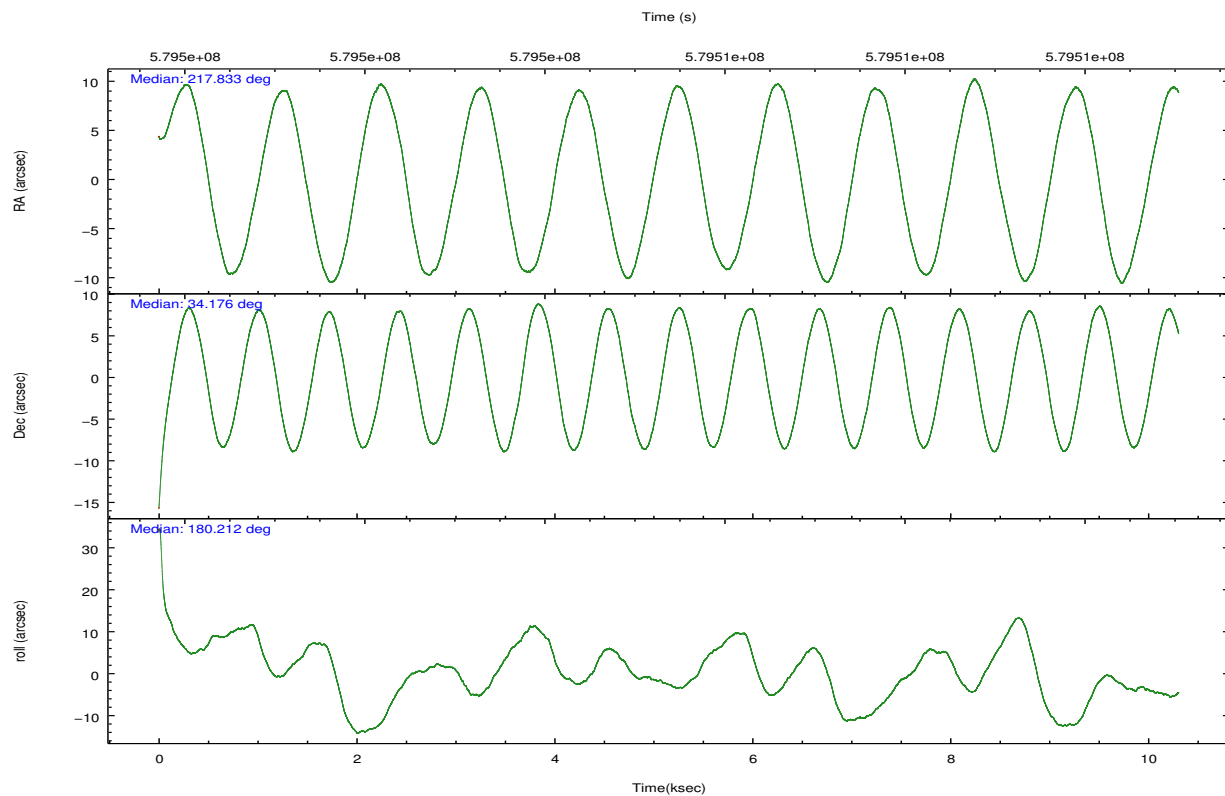
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	57708	59431	62728	62744	67482	82612	grade 0 events	2246	3314	2326	2165	2255	2841
rejected events	50982	51199	56263	56216	58868	47505		3%	5%	3%	3%	3%	3%
rejected %	88%	86%	89%	89%	87%	57%	grade 1 events	34	30	33	35	32	121
								0%	0%	0%	0%	0%	0%
							grade 2 events	1695	1752	1538	1464	3146	7375
								2%	2%	2%	2%	4%	8%
							grade 3 events	669	727	682	704	711	2632
								1%	1%	1%	1%	1%	3%
							grade 4 events	676	734	611	710	720	2494
								1%	1%	0%	1%	1%	3%
							grade 5 events	2593	2759	2465	3086	2997	7945
								4%	4%	3%	4%	4%	9%
							grade 6 events	1447	1707	1310	1486	1787	19780
								2%	2%	2%	2%	2%	23%
							grade 7 events	48348	48408	53763	53094	55834	39424
								83%	81%	85%	84%	82%	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	217.861611	217.8328912905154	CCD I2 on	Y	Y
[deg] Pointing Dec	34.189601	34.17563305733461	CCD I3 on	Y	Y
[deg] Pointing Roll	179.988378	180.2132126974664	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)	579500527.184000	579499505.46864	CCD S5 on	N	N
Observation start date	2016-05-13T04:20:59	2016-05-13T04:05:05	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	579510527.184000	579511561.51933	On-chip summing requested	N	N
Observation end date	2016-05-13T07:07:39	2016-05-13T07:26:01	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



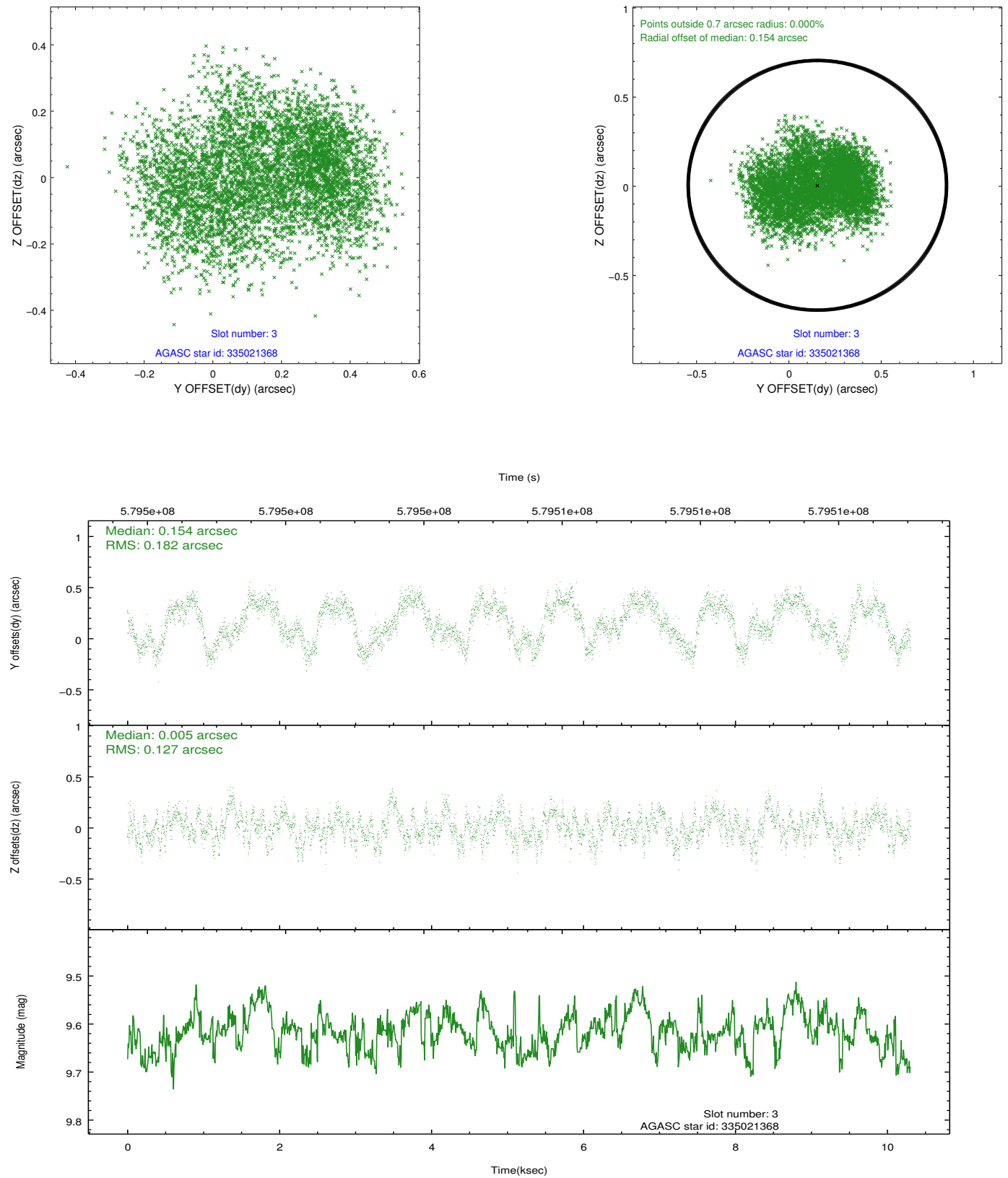


Slot Statistics

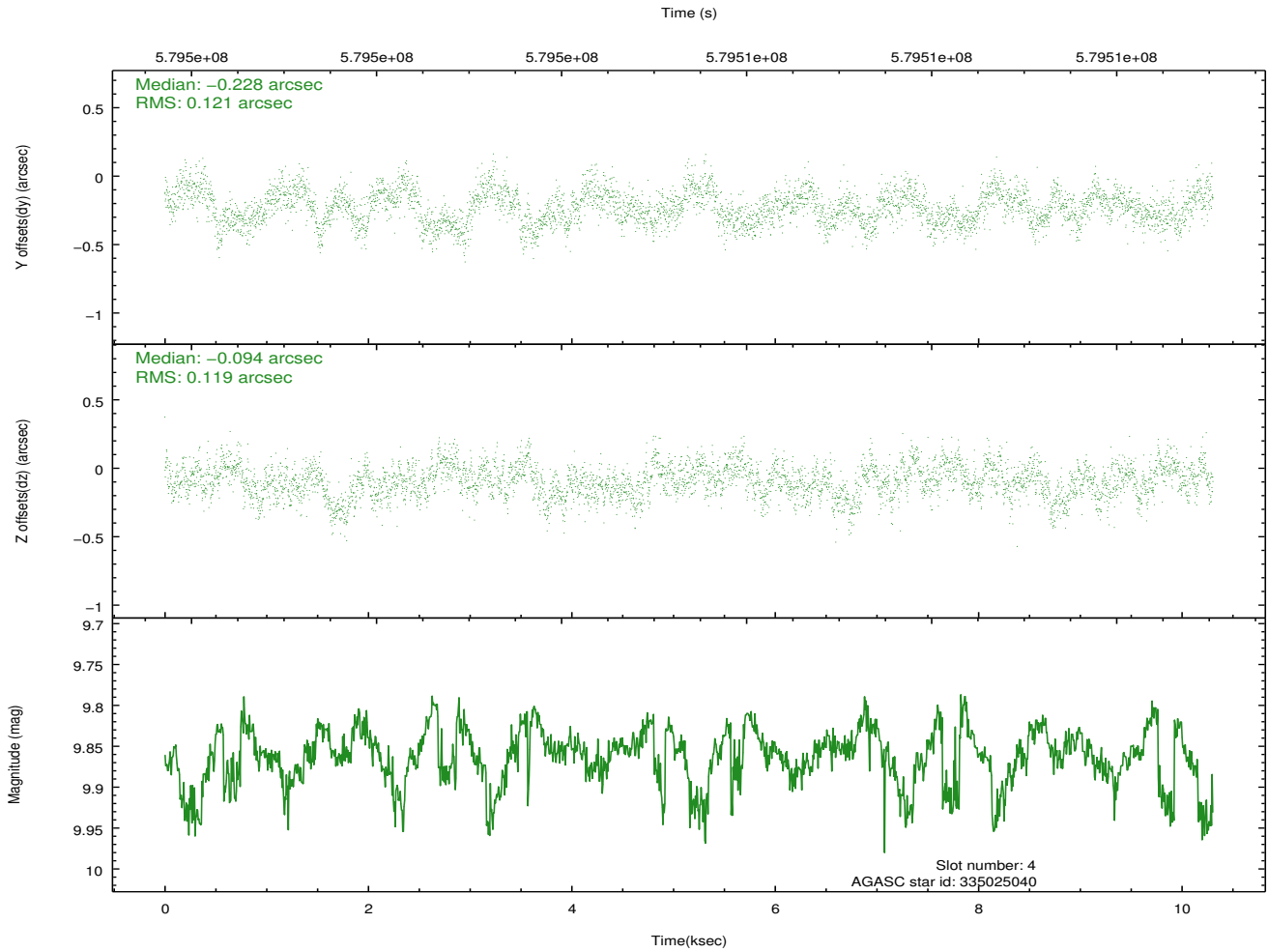
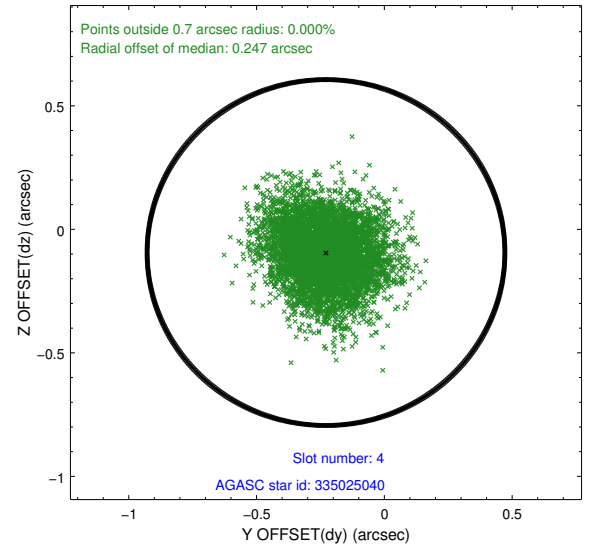
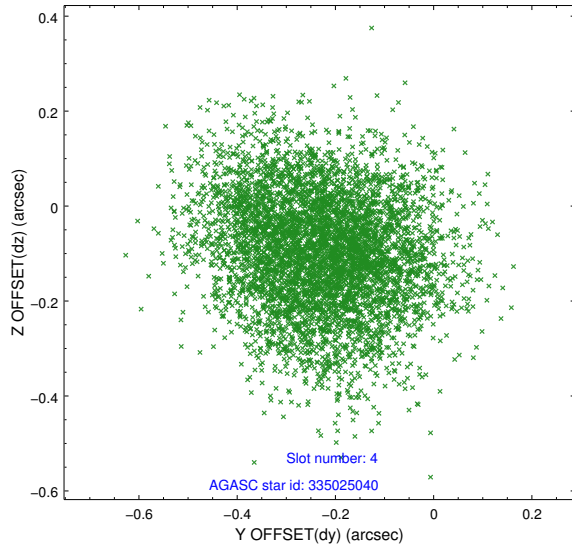
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	2512	0.080	-0.066	0.008	0.014	0.000000	0.000000	931.58	-837.92
1	FID		ACIS-I-5	7.24	2514	-0.289	0.055	0.006	0.010	0.000000	0.000000	-1816.67	1059.35
2	FID		ACIS-I-6	7.24	2514	0.117	0.081	0.008	0.012	0.000000	0.000000	396.53	1704.53
3	GUIDE	used	335021368	9.62	5024	0.154	0.005	0.245	0.354	217.529643	33.934817	992.00	915.82
4	GUIDE	used	335025040	9.86	5022	-0.228	-0.094	0.183	0.291	218.601670	34.305240	-2200.17	-424.73
5	GUIDE	used	335025848	9.70	5012	-0.347	-0.159	0.216	0.382	217.530531	33.778292	990.13	1479.06
6	GUIDE	used	335028336	9.44	5024	-0.101	0.140	0.133	0.216	217.189840	34.665629	1990.13	-1719.48
7	GUIDE	used	335028696	9.16	5024	0.533	0.123	0.135	0.221	217.260519	33.844112	1798.47	1238.67

2.4 Star Slots

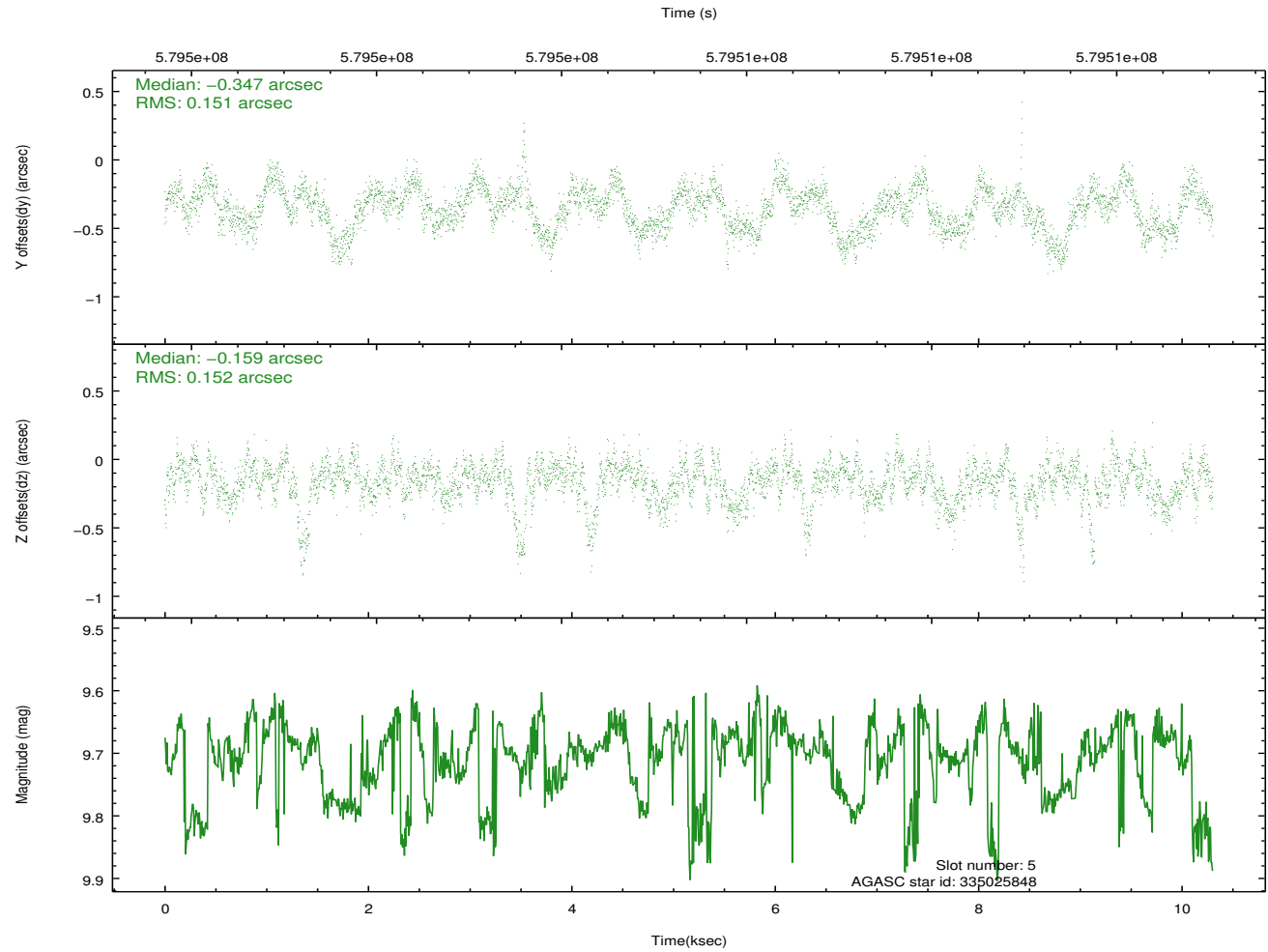
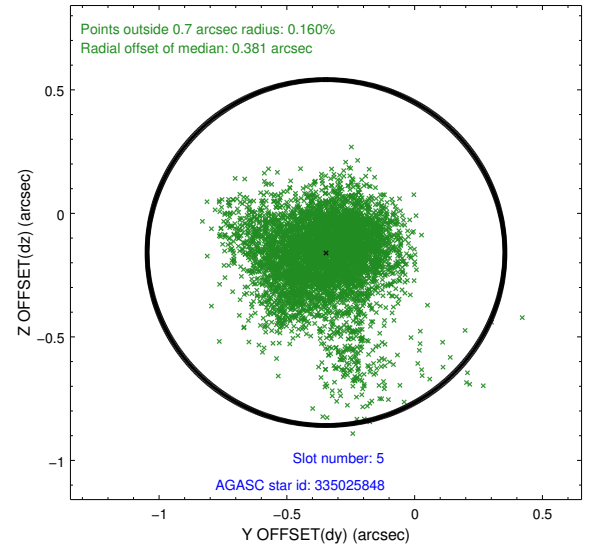
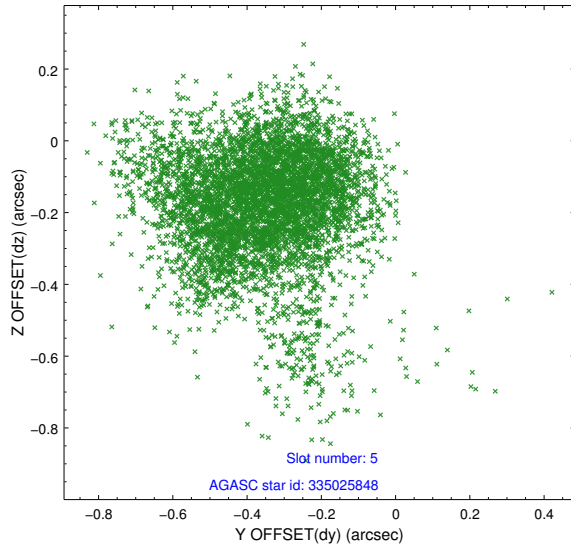
2.4.1 Slot 3



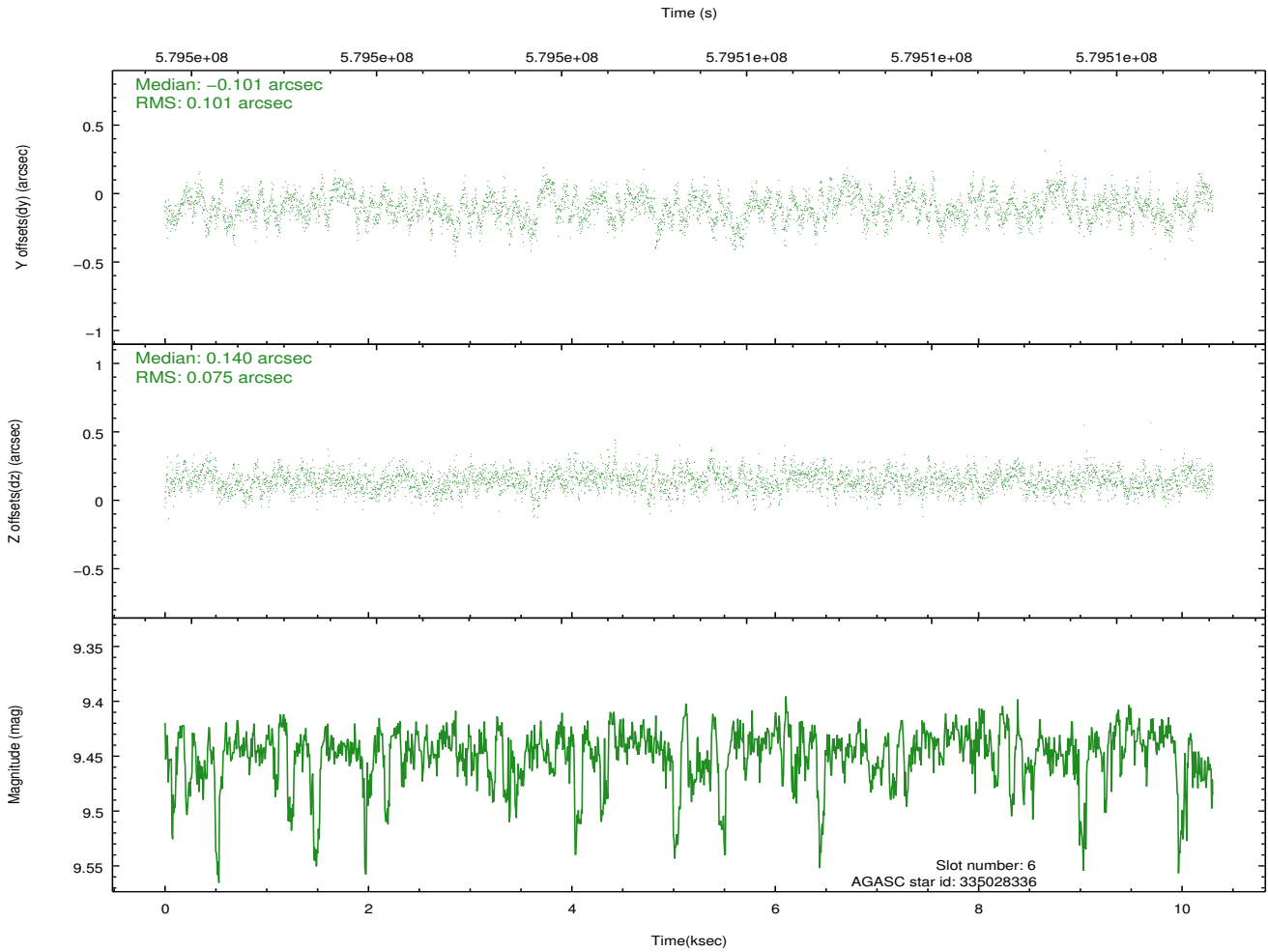
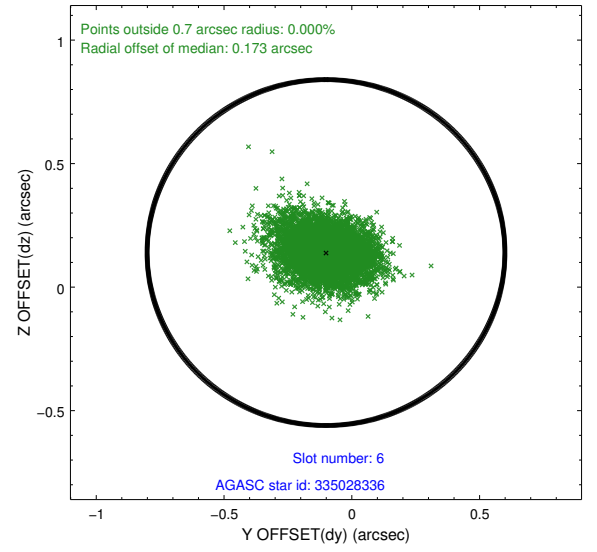
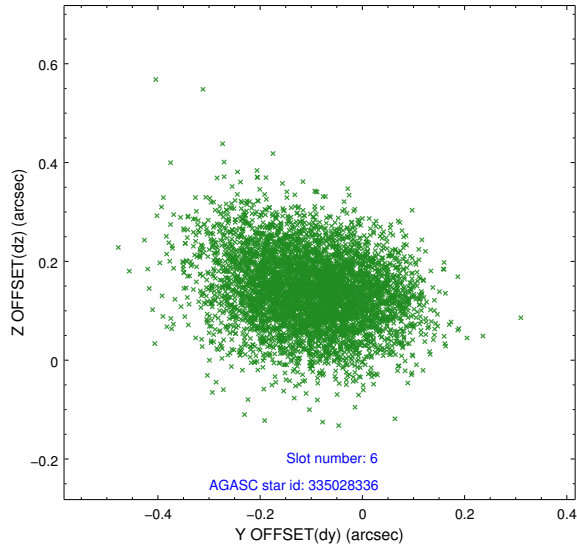
2.4.2 Slot 4



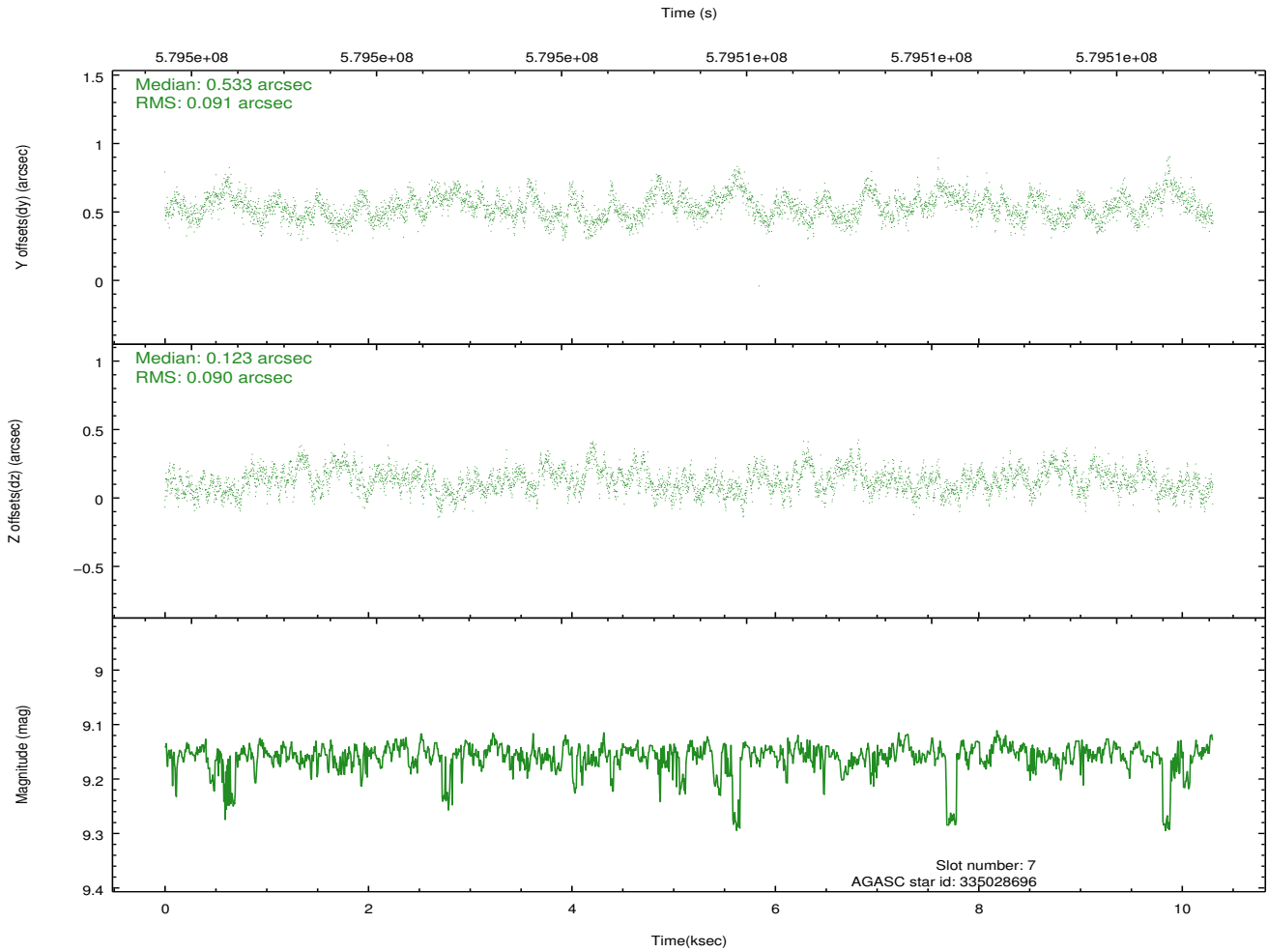
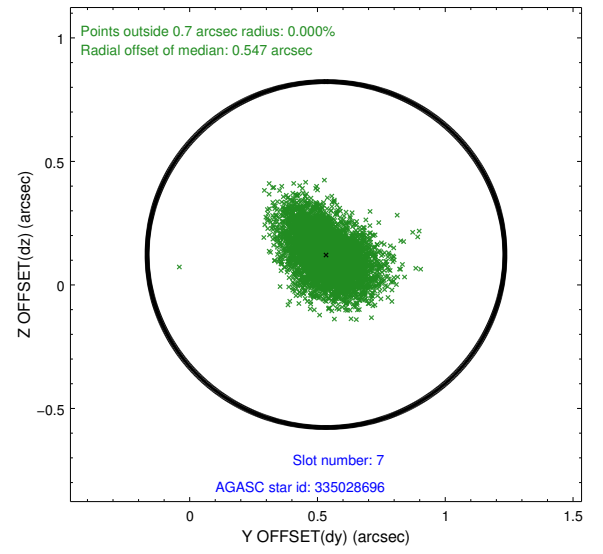
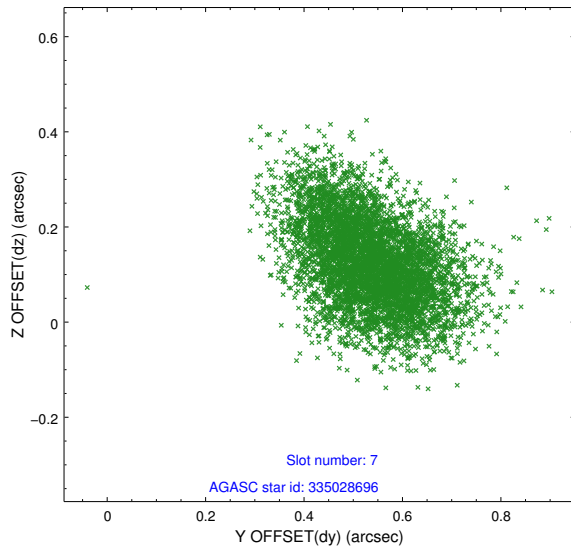
2.4.3 Slot 5



2.4.4 Slot 6

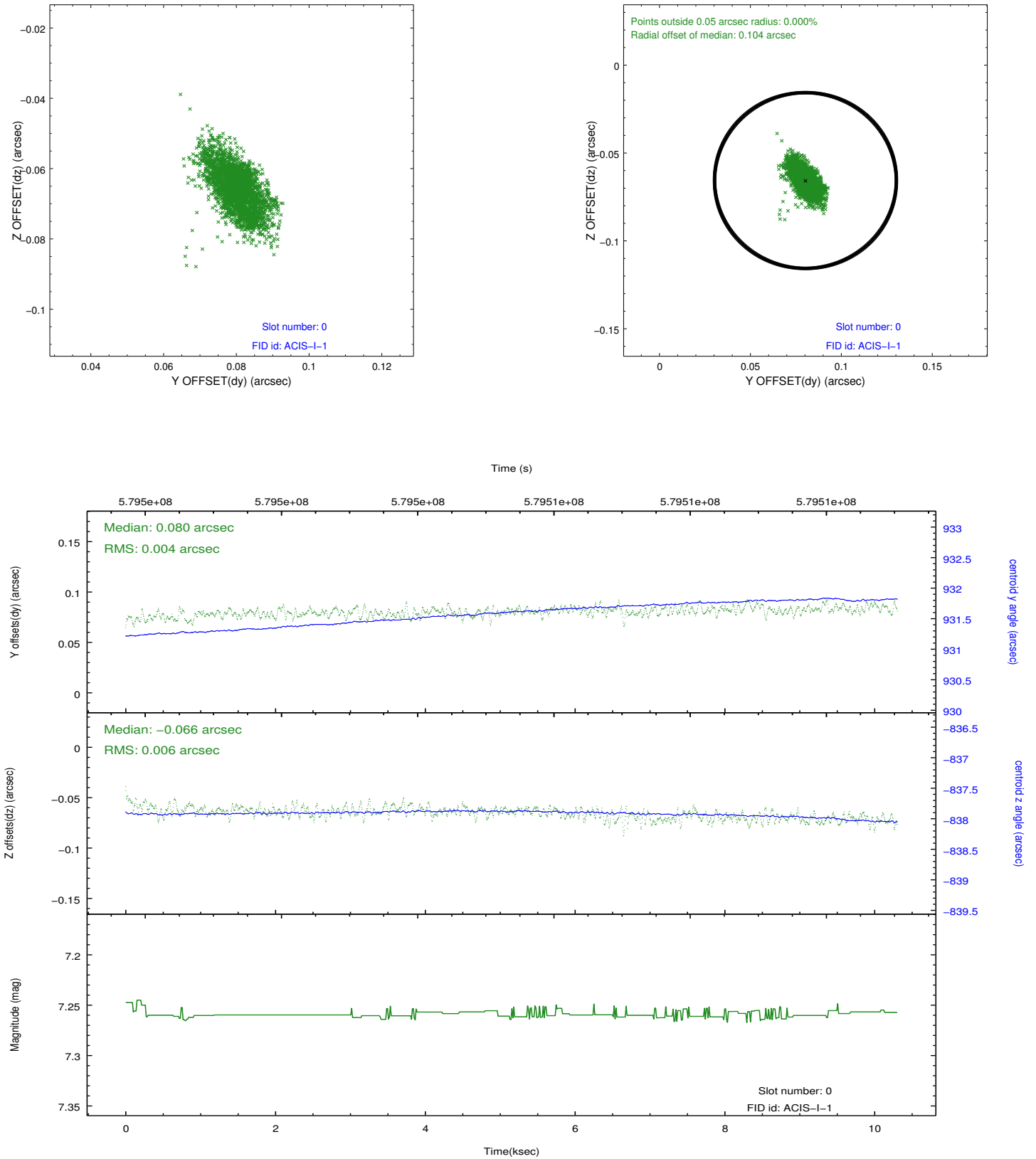


2.4.5 Slot 7

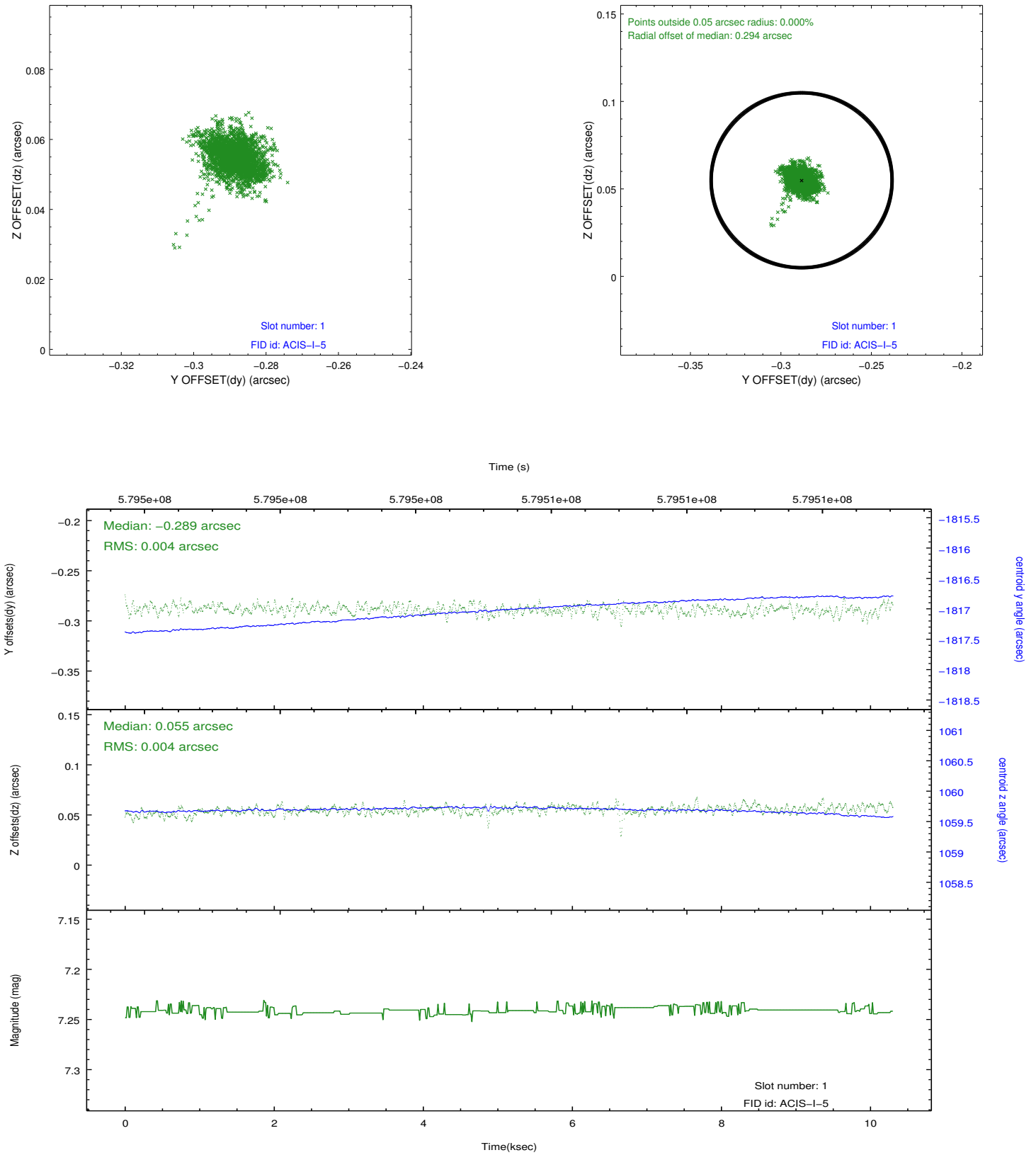


2.5 FID Slots

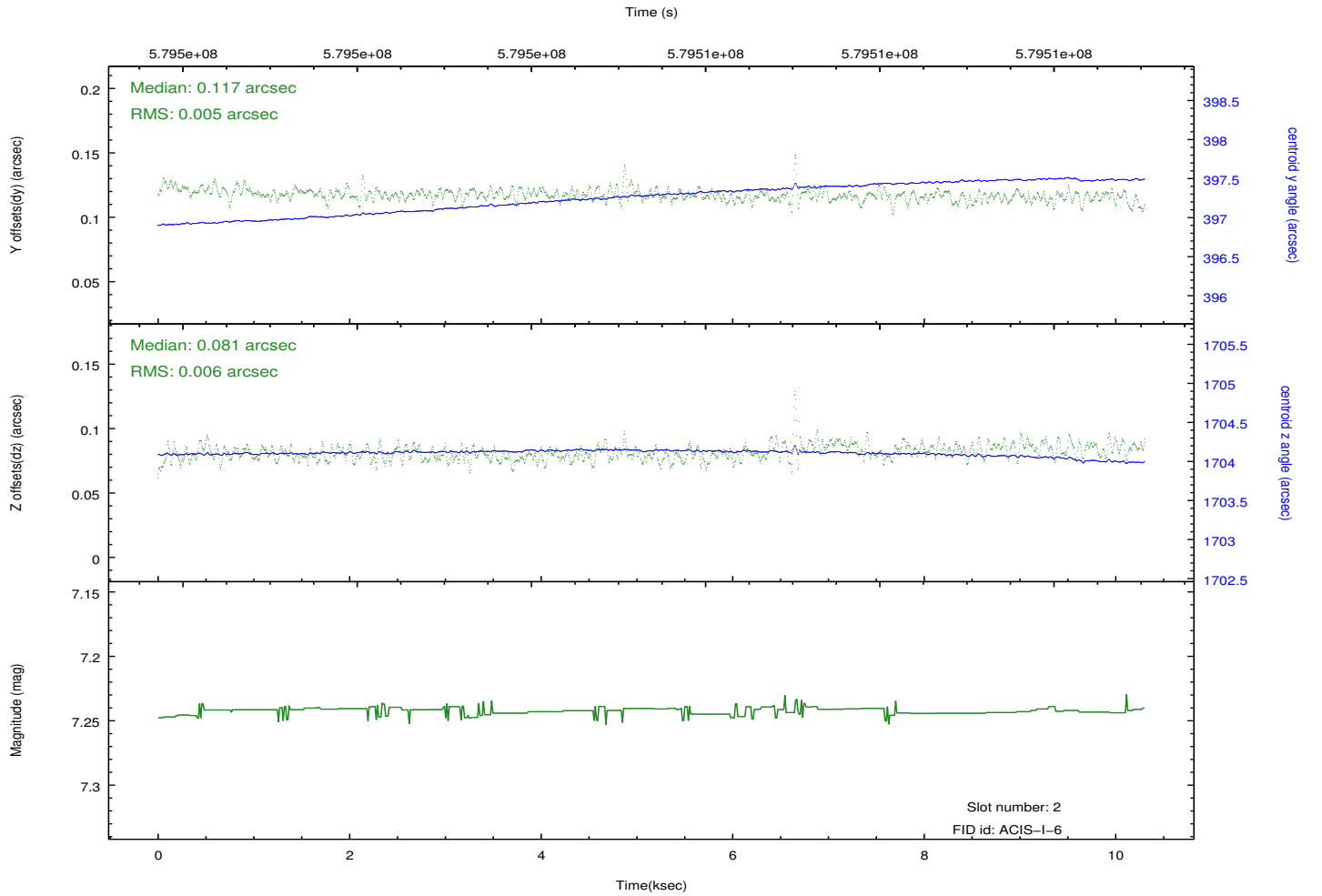
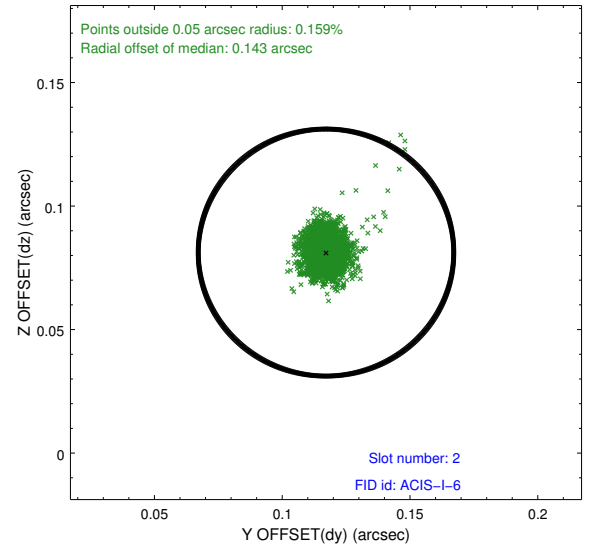
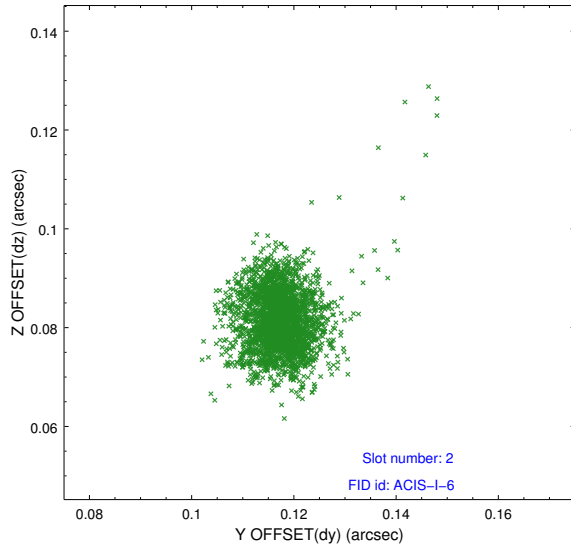
2.5.1 Slot 0



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)	2016.05.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.9584001483917

A.2 Comments

Roll preference met.