

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17436 - L2 Version 1
Chandra X-Ray Center

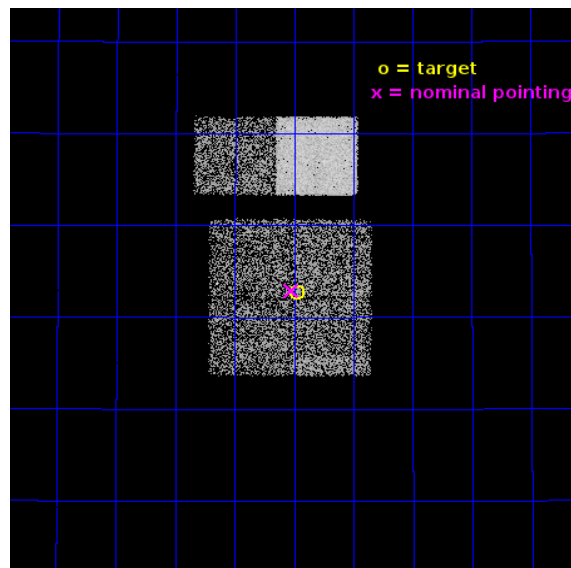
L2 Processing Date : Nov 5 2015

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1 Front

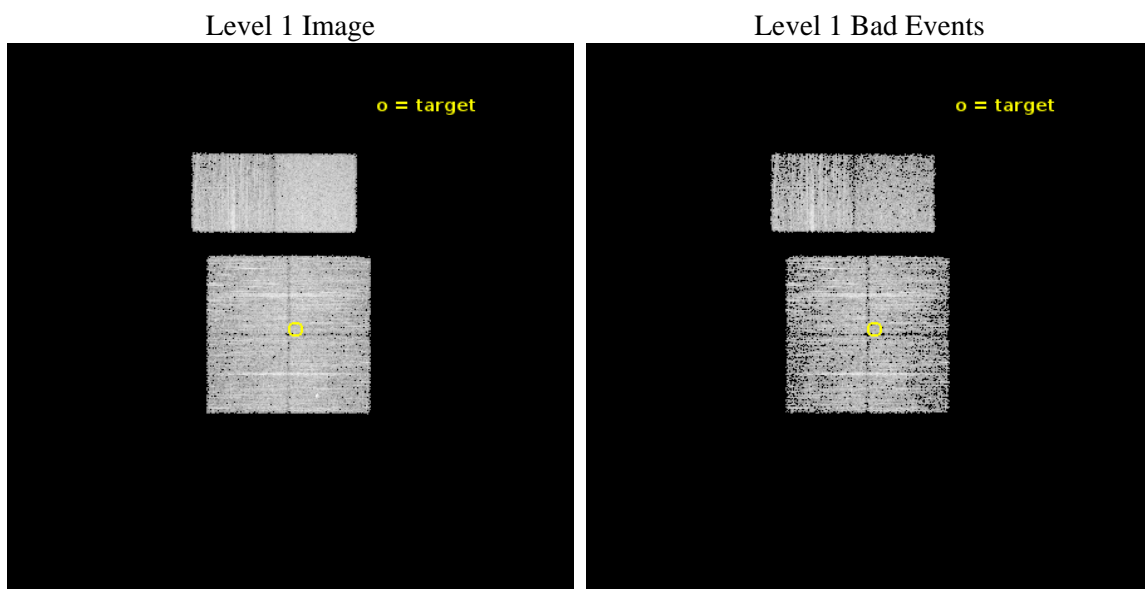
seq_num	901183	Sequence number
obs_id	17436	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.869167	Observer's specified target RA [deg]
dec_targ	34.211528	Observer's specified target Dec [deg]
ra_nom	216.88069214281	Nominal RA [deg]
dec_nom	34.214860457139	Nominal Dec [deg]
roll_nom	0.2021976617649	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6002.5763725042	Sum of GTIs [s]
livetime	5926.568136158	Livetime [s]
ontime0	6002.4532525539	Sum of GTIs [s]
ontime1	6002.4942924976	Sum of GTIs [s]
ontime2	6002.5353325605	Sum of GTIs [s]
ontime3	6002.5763725042	Sum of GTIs [s]
ontime6	6002.6584722996	Sum of GTIs [s]
ontime7	6002.6174125671	Sum of GTIs [s]
l2events	34243	Number of level 2 events



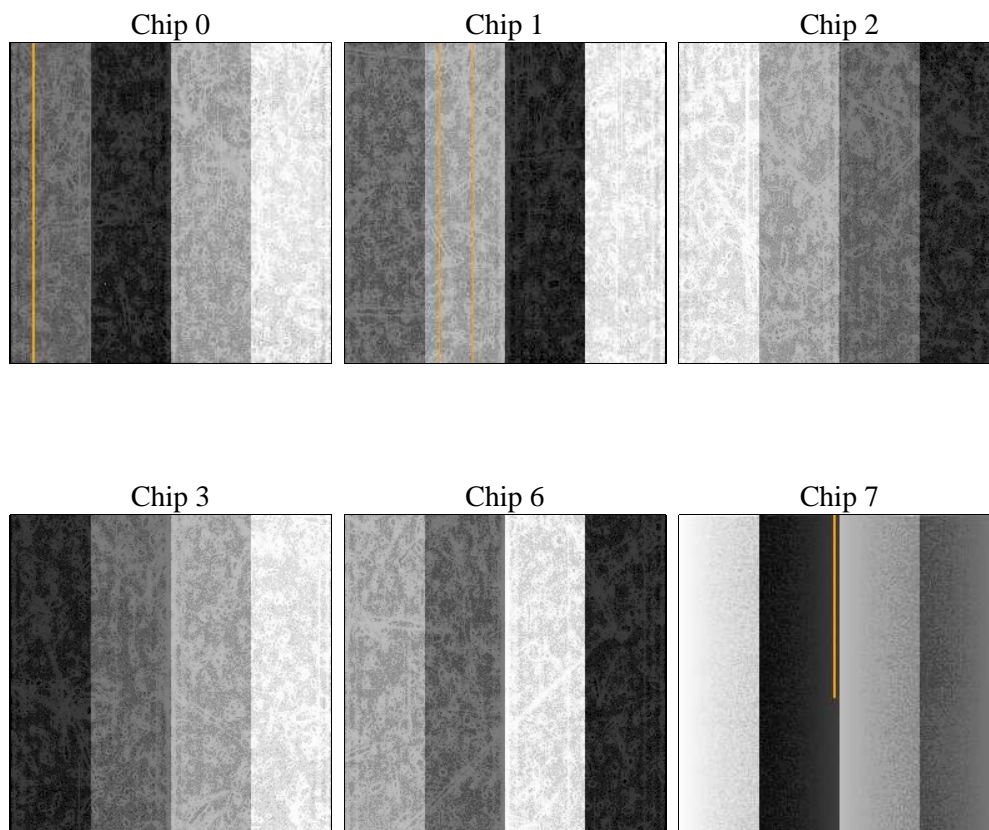
2 OBI

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	6002.5763725042	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	6002.4532525539	Sum of GTIs [s]
date	2015-11-05T14:23:41	Date and time of file creation	ontime1	6002.4942924976	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6002.5353325605	Sum of GTIs [s]
			ontime3	6002.5763725042	Sum of GTIs [s]
			ontime6	6002.6584722996	Sum of GTIs [s]
			ontime7	6002.6174125671	Sum of GTIs [s]
			l1events	195511	Number of level 1 events

2.1.4 Events

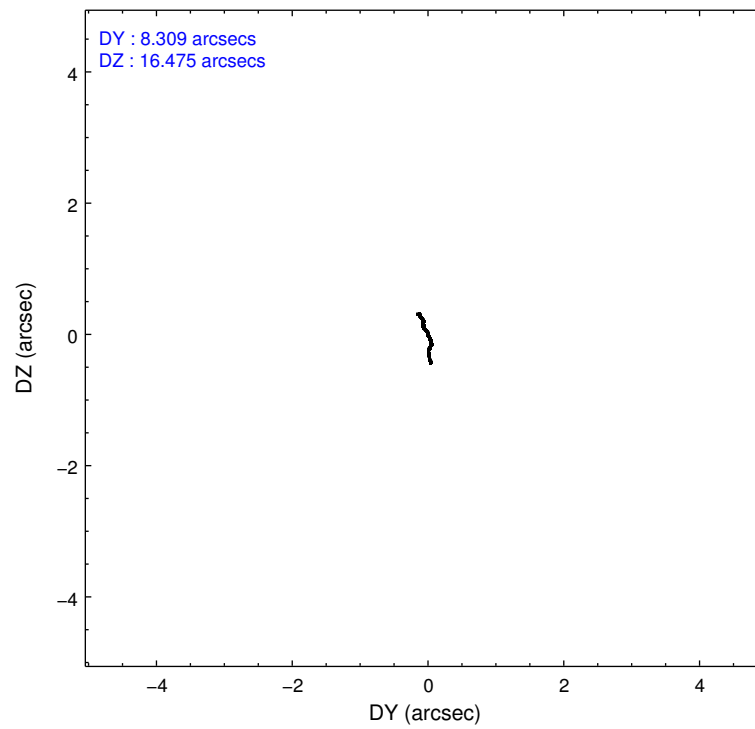
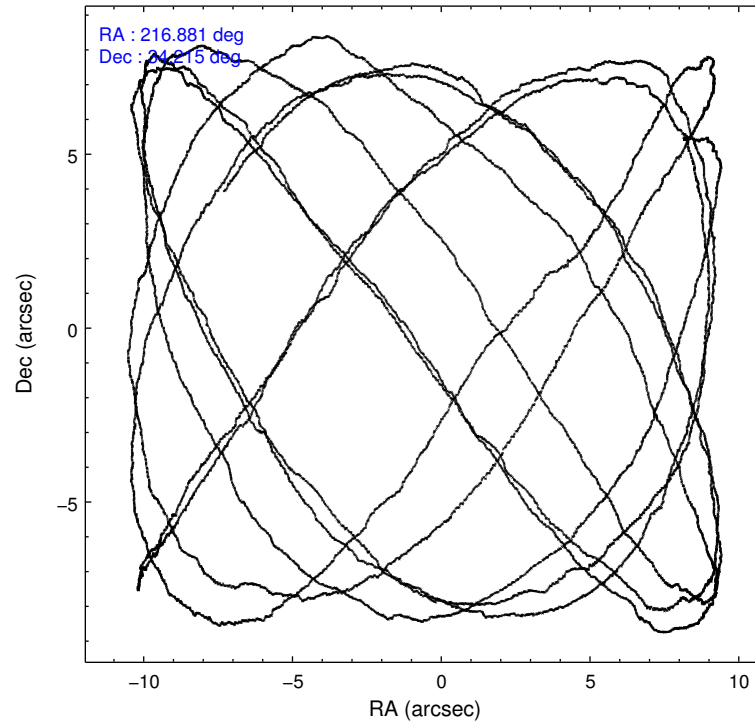
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	26880	28890	32535	31068	33363	42775	grade 0 events	1211	1701	1303	1400	1219	1637
rejected events	23286	24473	28938	27465	29689	24055		4%	5%	4%	4%	3%	3%
rejected %	86%	84%	88%	88%	88%	56%	grade 1 events	21	17	14	24	12	55
								0%	0%	0%	0%	0%	0%
							grade 2 events	896	1032	822	765	827	3937
								3%	3%	2%	2%	2%	9%
							grade 3 events	382	390	380	388	372	1466
								1%	1%	1%	1%	1%	3%
							grade 4 events	362	379	335	346	358	1497
								1%	1%	1%	1%	1%	3%
							grade 5 events	1328	1468	1297	1576	1509	4300
								4%	5%	3%	5%	4%	10%
							grade 6 events	747	921	762	708	905	10194
								2%	3%	2%	2%	2%	23%
							grade 7 events	21933	22982	27622	25861	28161	19689
								81%	79%	84%	83%	84%	46%

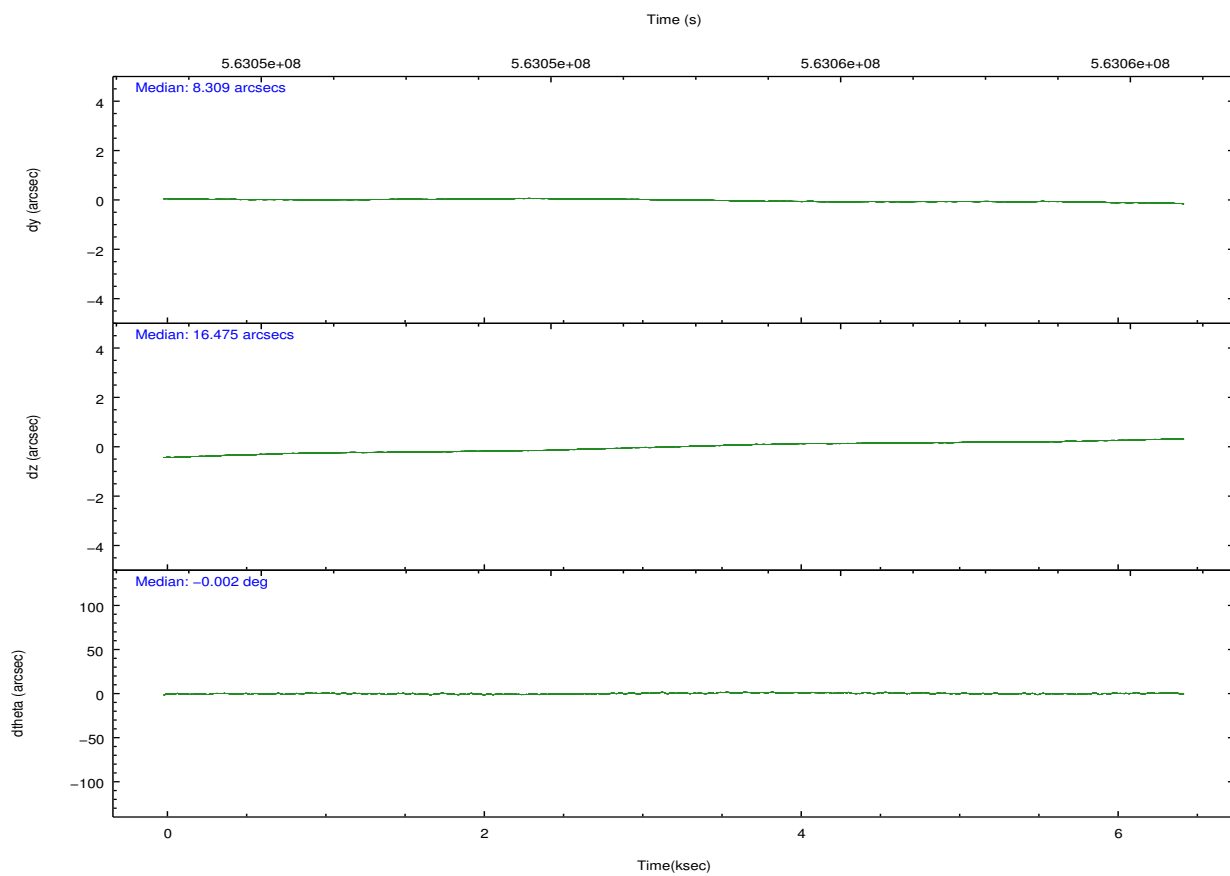
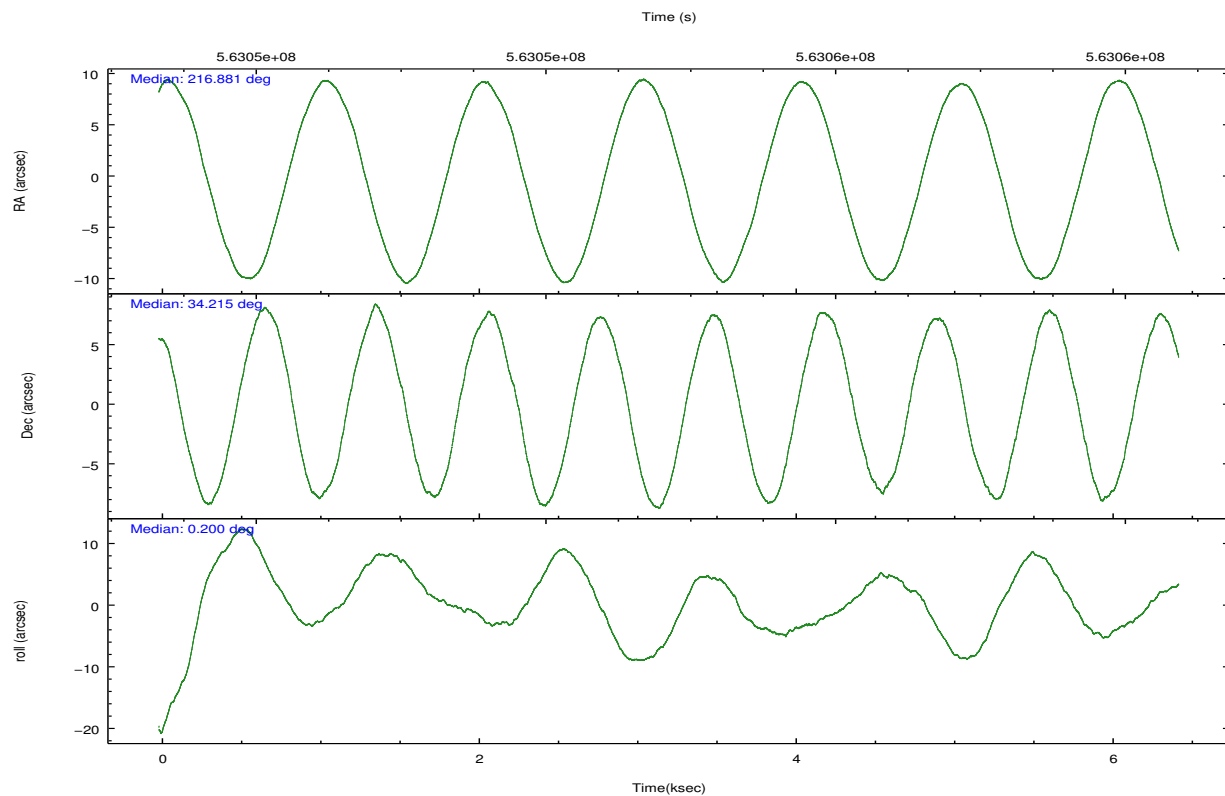
2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	216.851838	216.8806921428115
[deg] Pointing Dec	34.200858	34.21486045713868
[deg] Pointing Roll	0.009742	0.202197661764895
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.001439871863259334
[mm] SIM translation stage pos	-233.592463	-233.5874344608287
[mm] SIM translation stage offset	0	-0.005018542100998502
[s] Observation start time (MET)	563051812.184000	563051383.9222701
Observation start date	2015-11-04T19:15:44	2015-11-04T19:09:43
[s] Observation end time (MET)	563058062.184000	563058196.07265
Observation end date	2015-11-04T20:59:54	2015-11-04T21:03:16
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
CCD I0 on	Y	Y
CCD I1 on	Y	Y
CCD I2 on	Y	Y
CCD I3 on	Y	Y
CCD S0 on	N	N
CCD S1 on	N	N
CCD S2 on	O2	Y
CCD S3 on	O1	Y
CCD S4 on	N	N
CCD S5 on	N	N
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	0.000000	3.2

2.3 Aspect



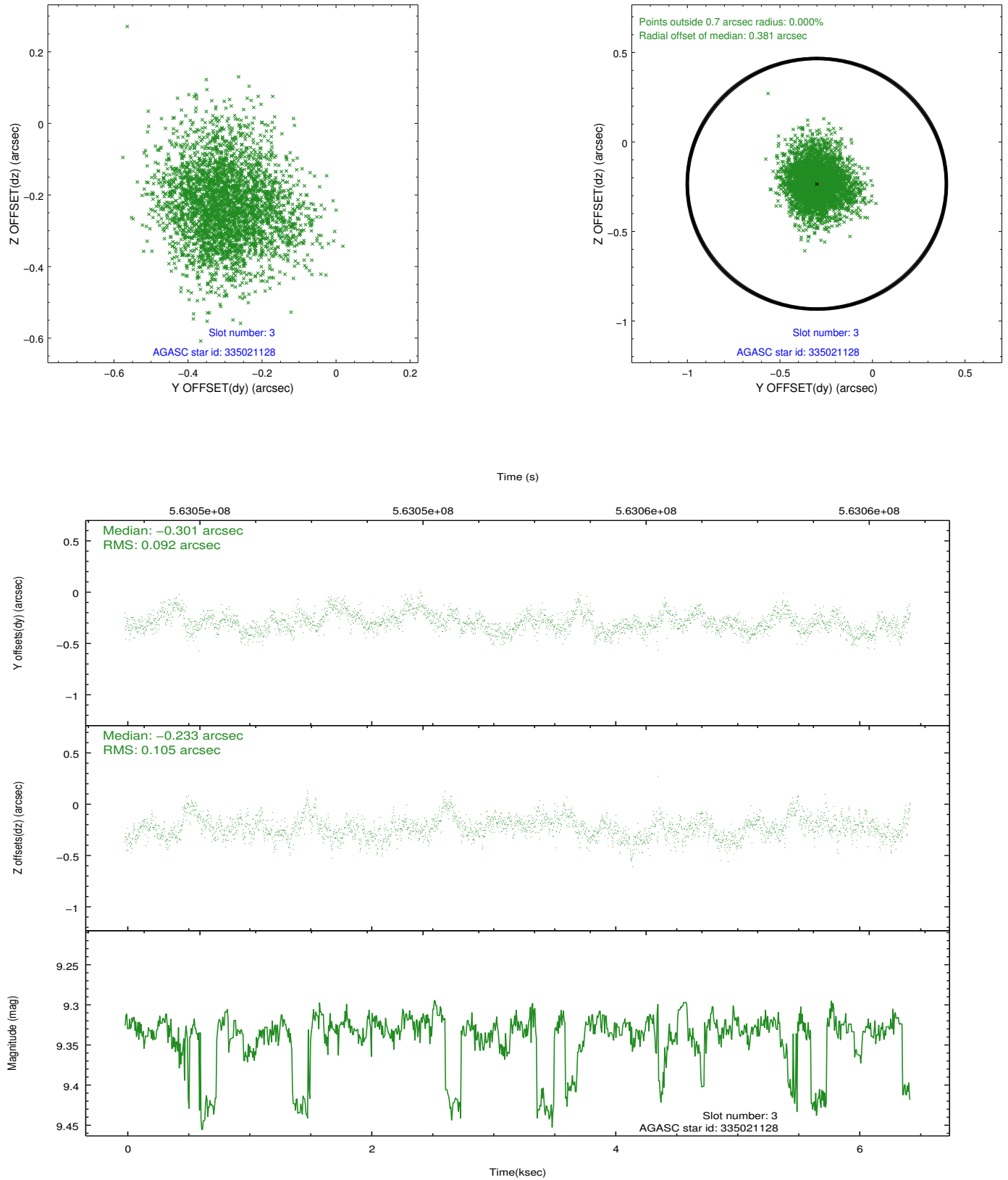


Slot Statistics

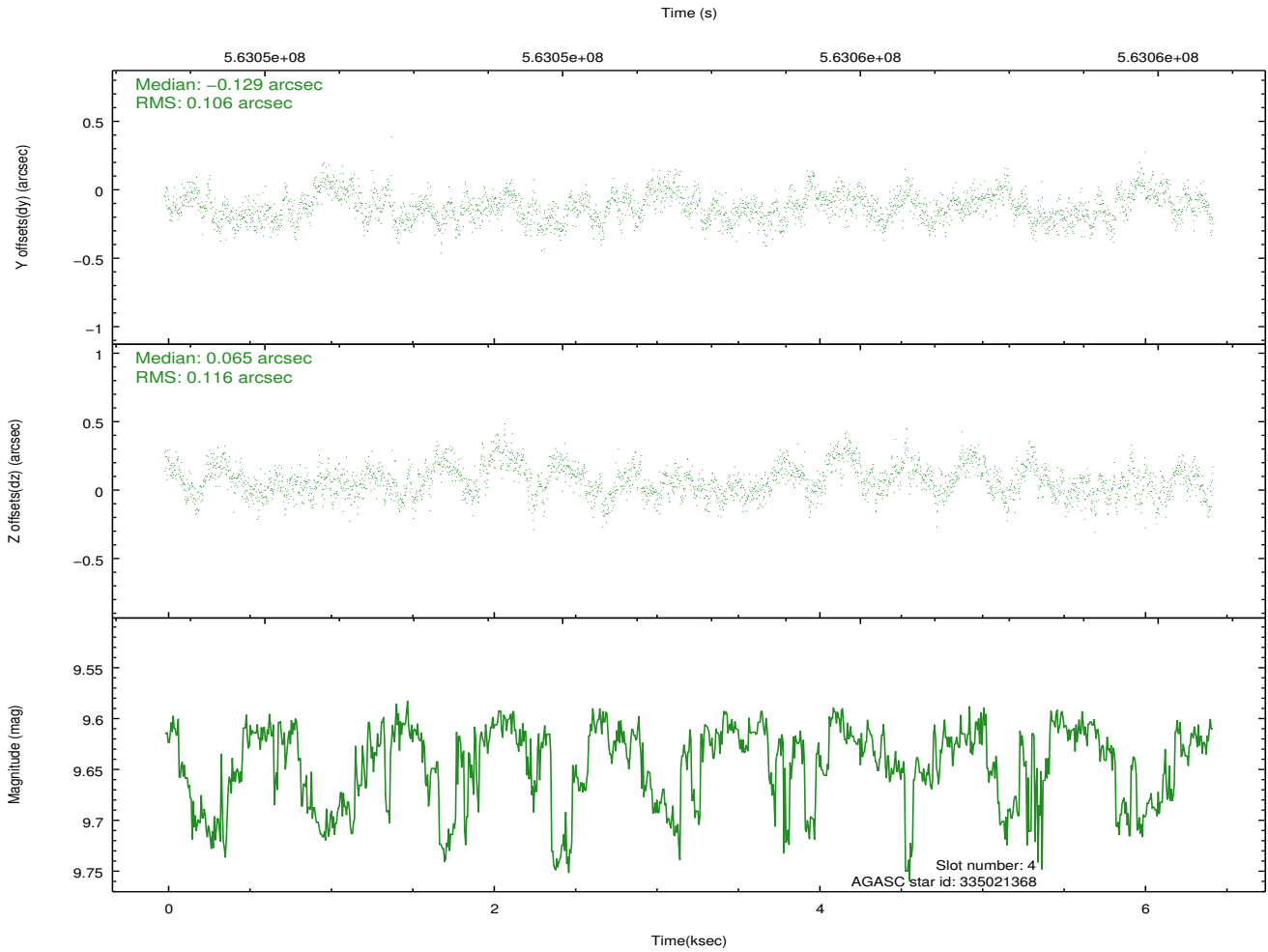
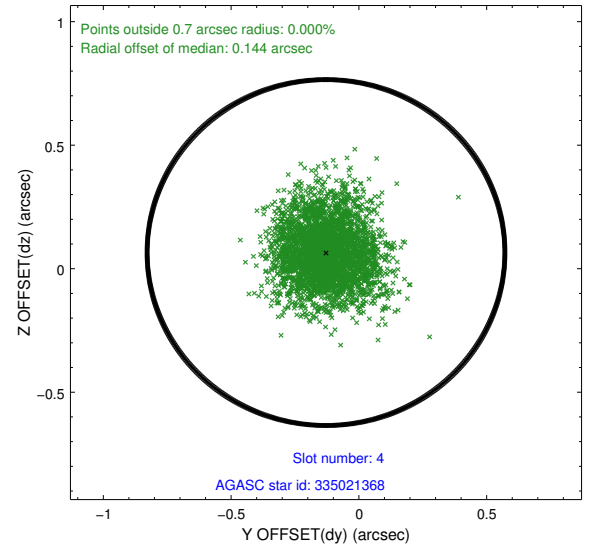
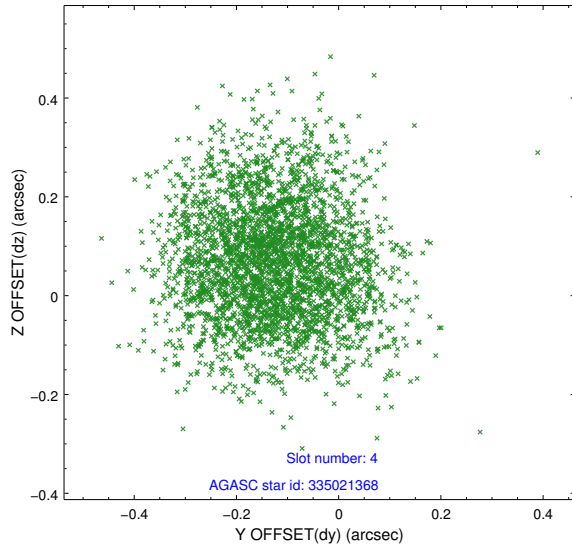
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.26	1570	0.131	-0.131	0.011	0.016	0.000000	0.000000	931.49	-840.22
1	FID		ACIS-I-5	7.24	1570	-0.310	0.091	0.010	0.015	0.000000	0.000000	-1816.57	1057.01
2	FID		ACIS-I-6	7.23	1570	0.089	0.112	0.012	0.019	0.000000	0.000000	395.99	1702.59
3	GUIDE	used	335021128	9.33	3140	-0.301	-0.233	0.148	0.241	216.159551	34.422539	-2056.38	805.10
4	GUIDE	used	335021368	9.64	3139	-0.129	0.065	0.169	0.268	217.529643	33.934817	2023.21	-951.03
5	GUIDE	used	335025848	9.68	3138	0.308	0.222	0.149	0.240	217.530531	33.778292	2031.27	-1514.92
6	GUIDE	used	335028696	9.21	3134	-0.504	0.111	0.126	0.212	217.260519	33.844112	1221.57	-1282.42
7	GUIDE	used	335030384	8.81	3137	0.613	-0.167	0.130	0.205	216.806407	34.722197	-133.55	1876.27

2.4 Star Slots

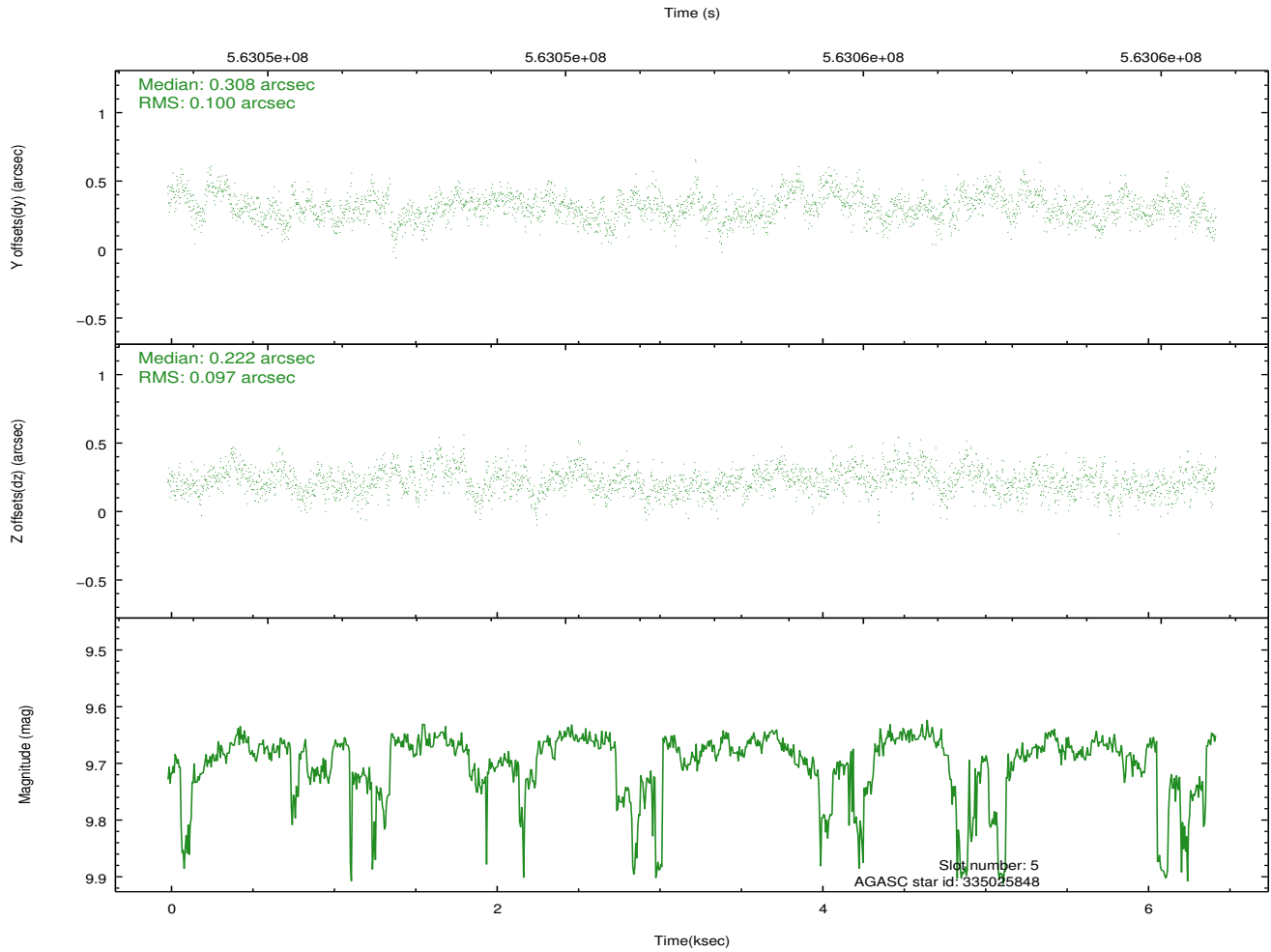
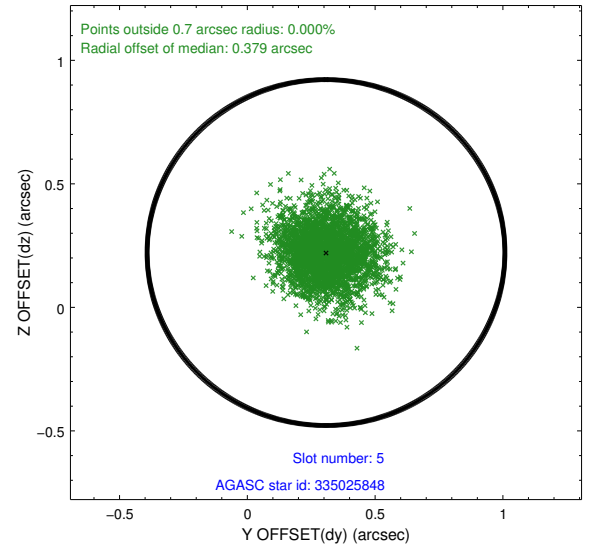
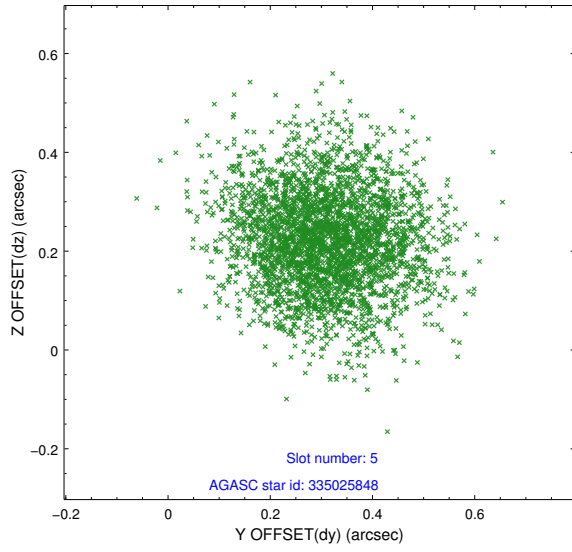
2.4.1 Slot 3



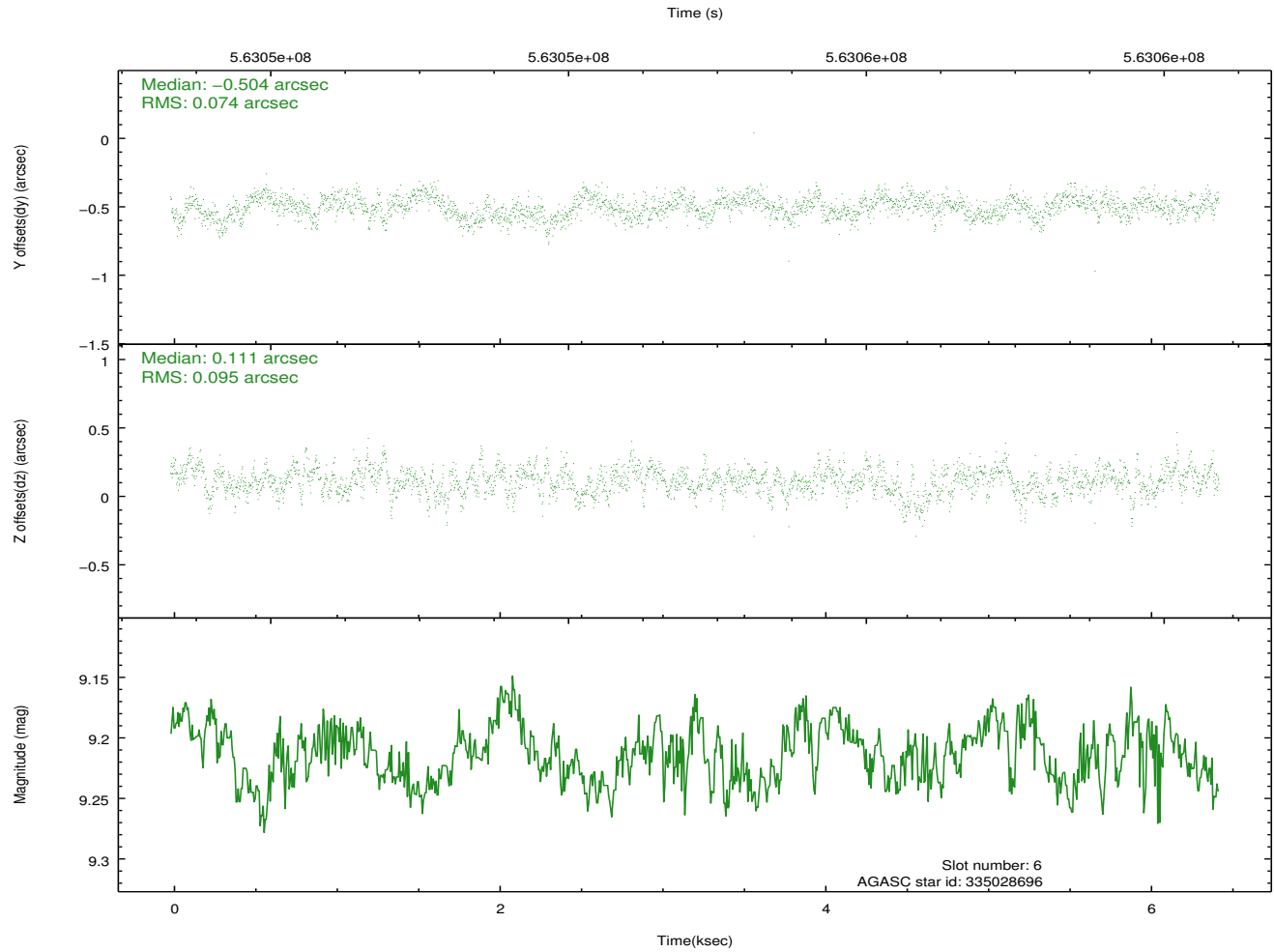
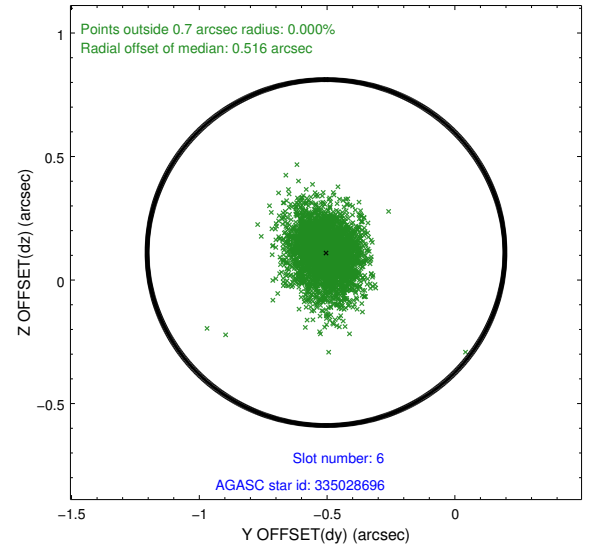
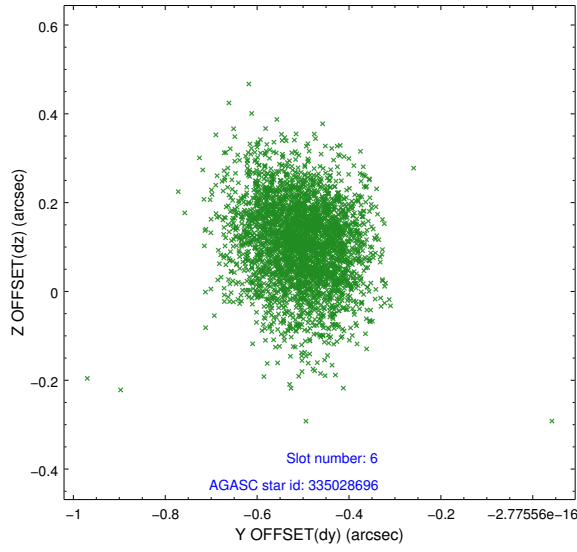
2.4.2 Slot 4



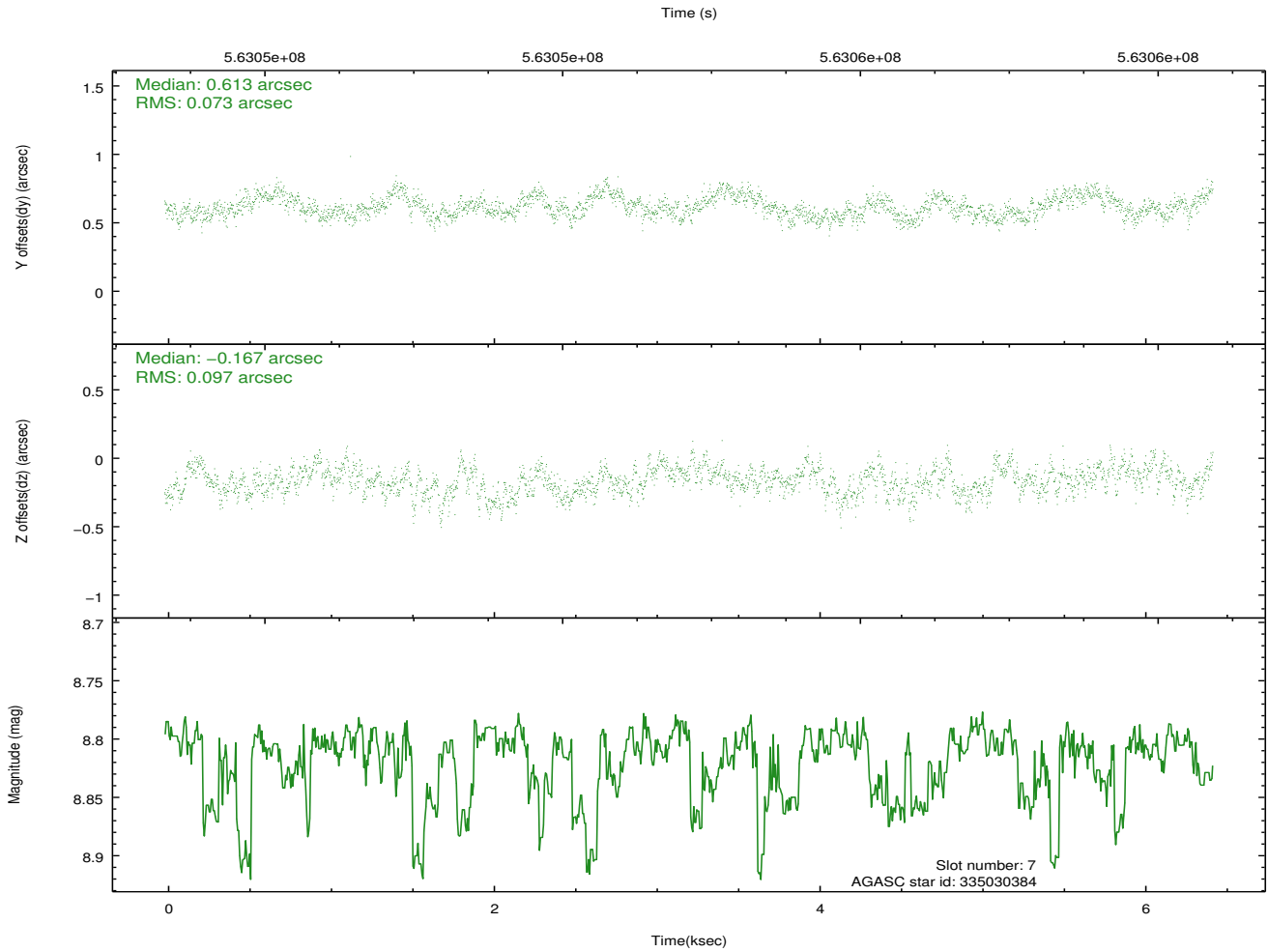
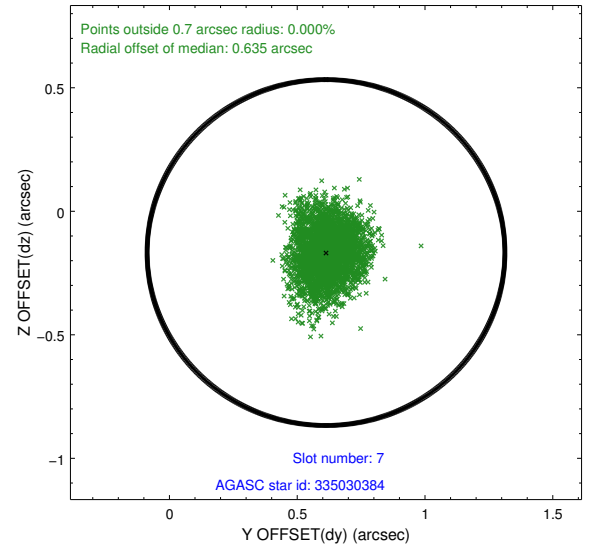
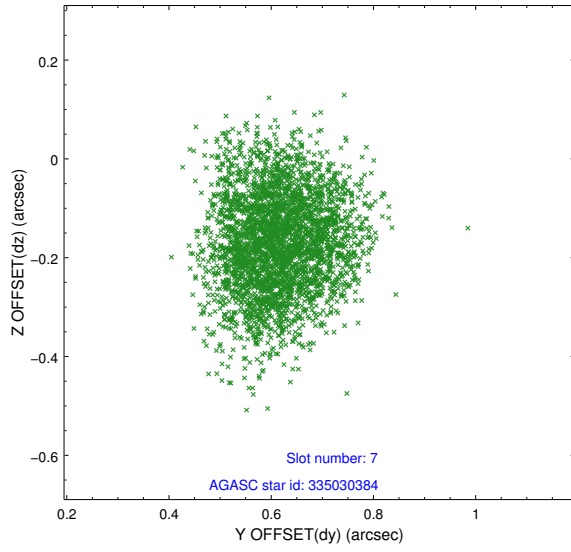
2.4.3 Slot 5



2.4.4 Slot 6

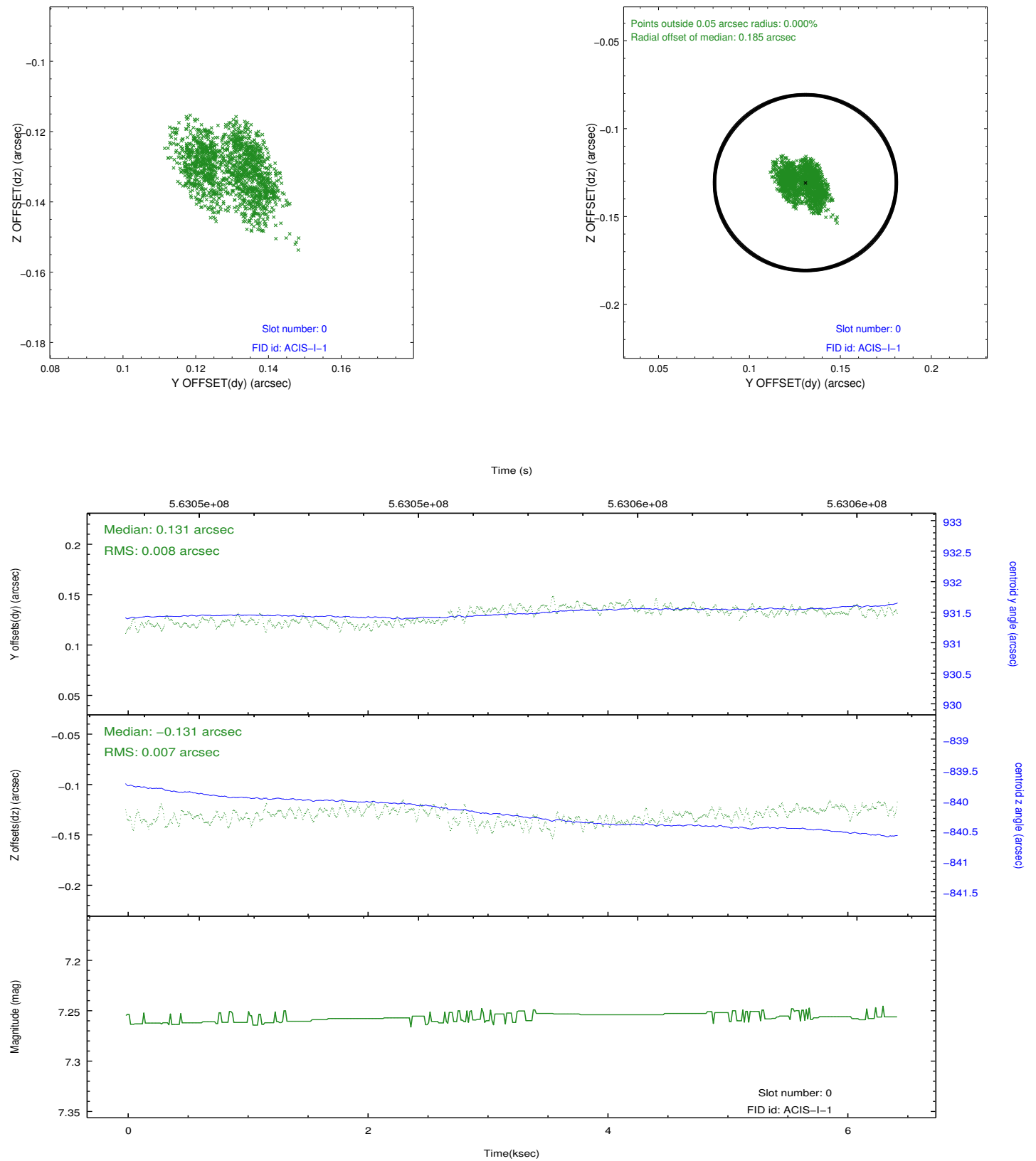


2.4.5 Slot 7

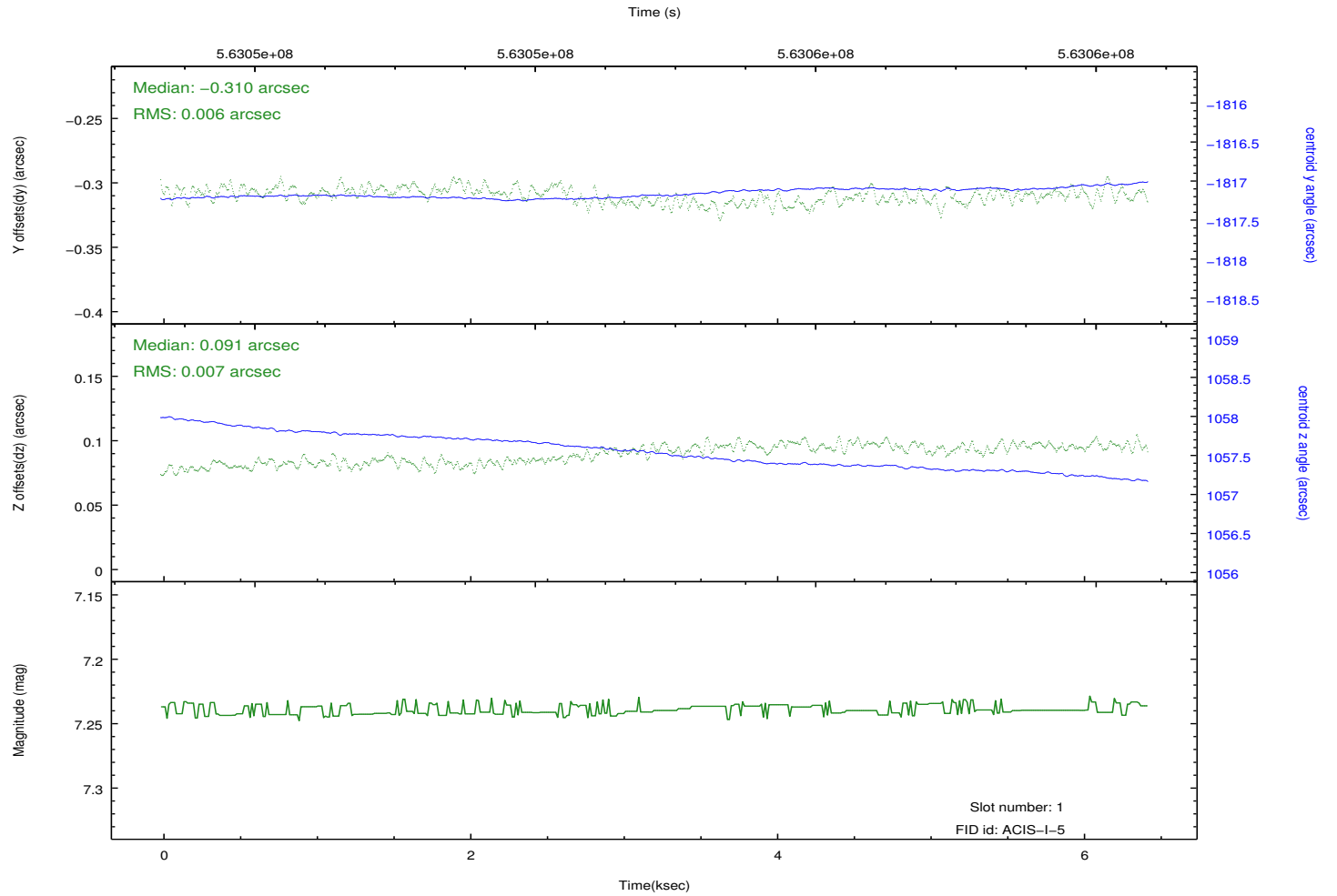
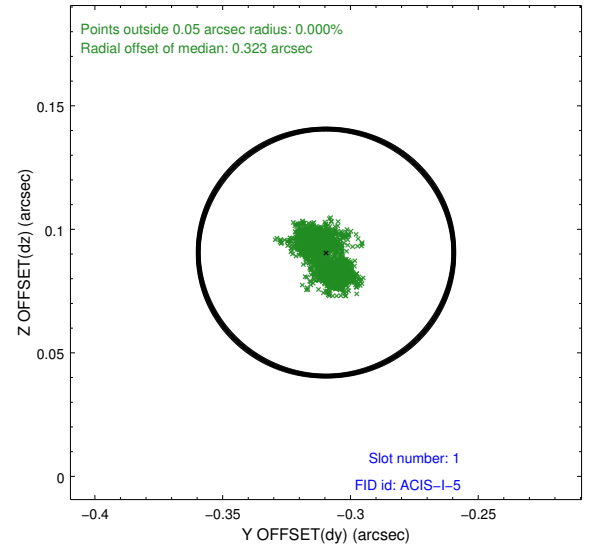
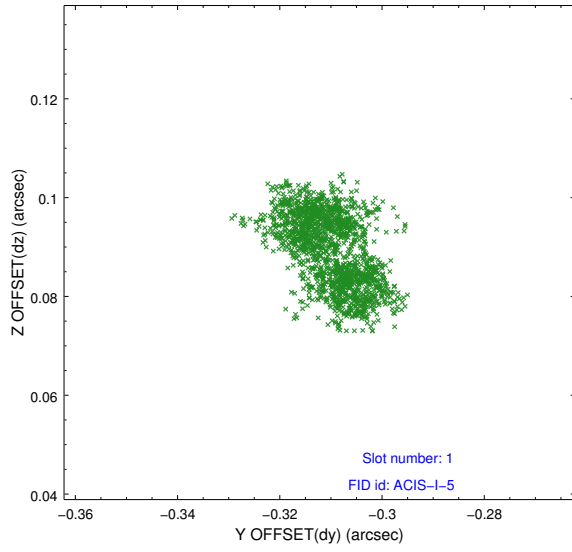


2.5 FID Slots

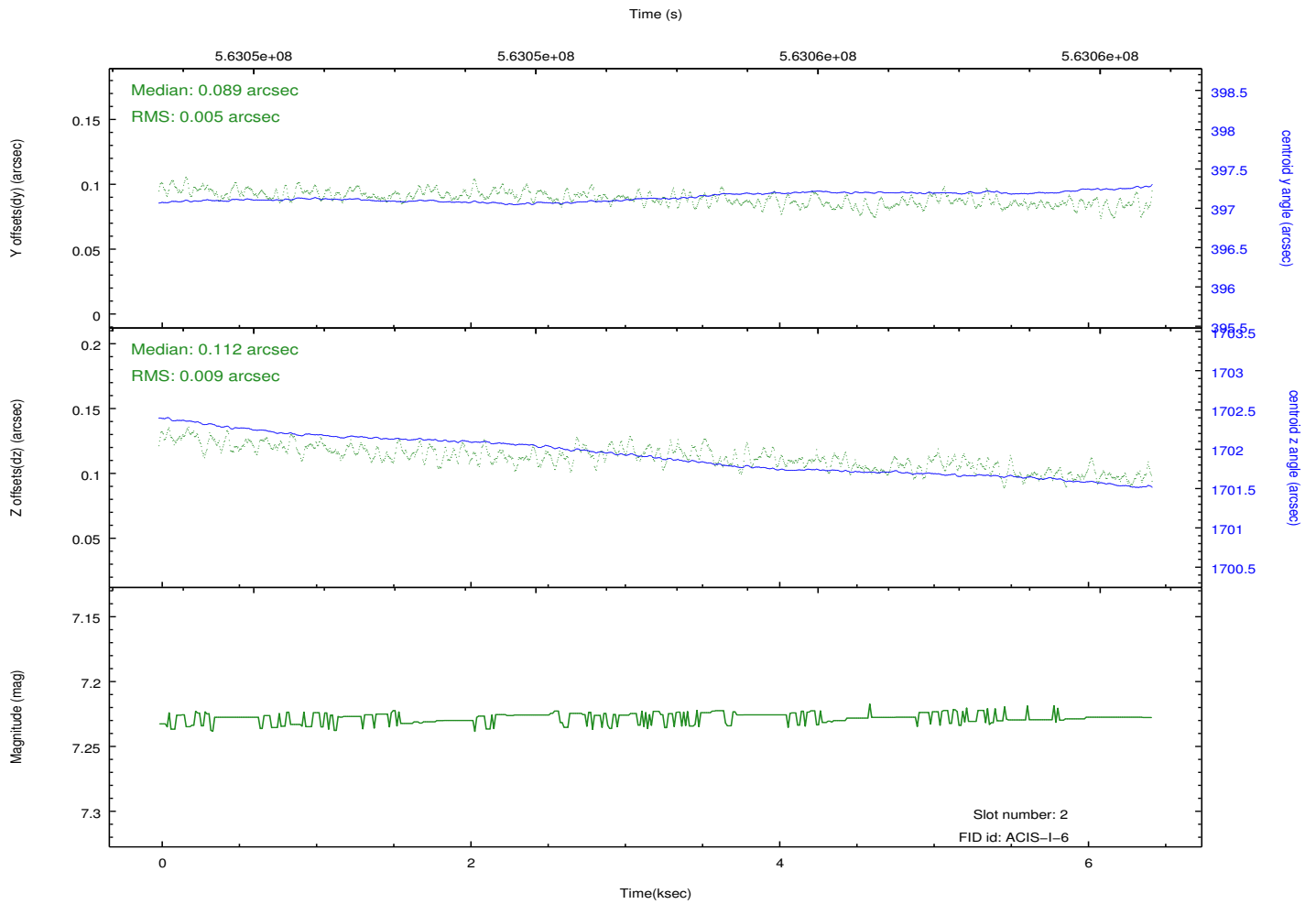
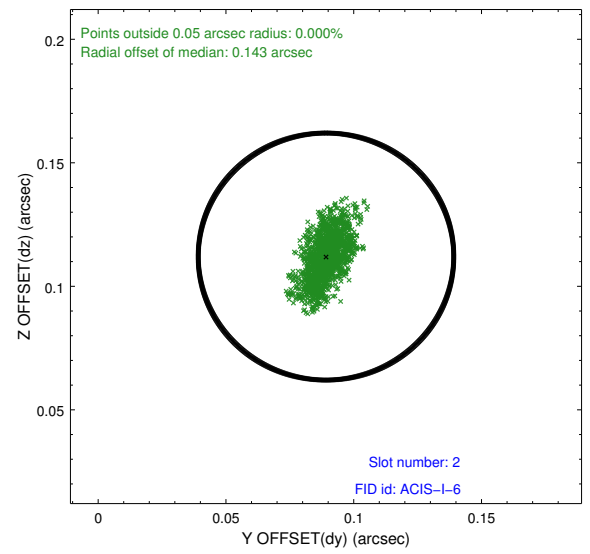
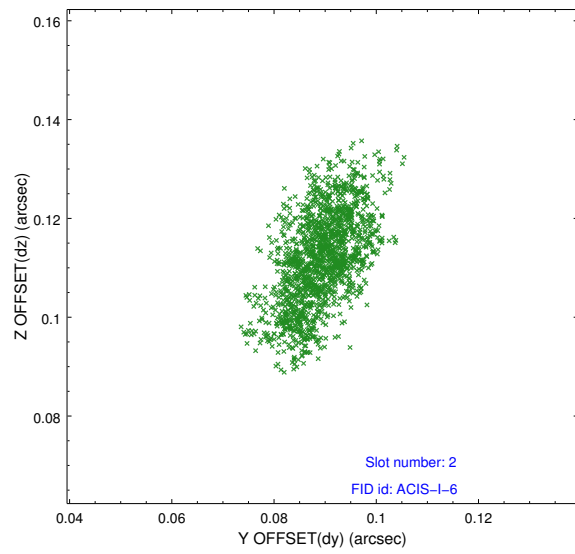
2.5.1 Slot 0



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	6.0025763725042

A.2 Comments

Roll preference met.