

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15087 - L2 Version 2
Chandra X-Ray Center

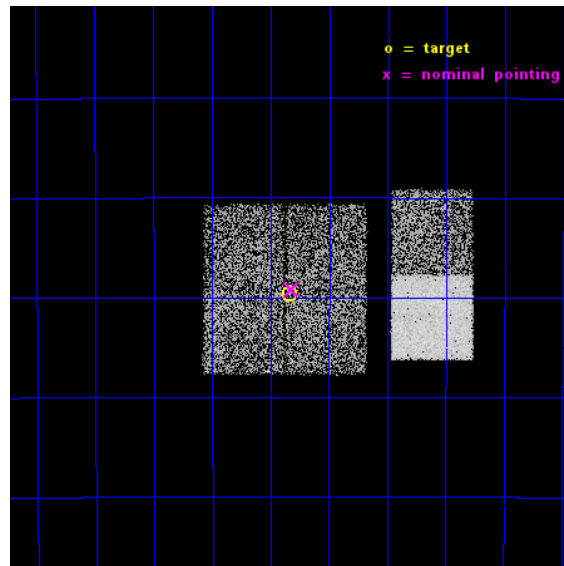
L2 Processing Date : Dec 7 2014

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1 Front

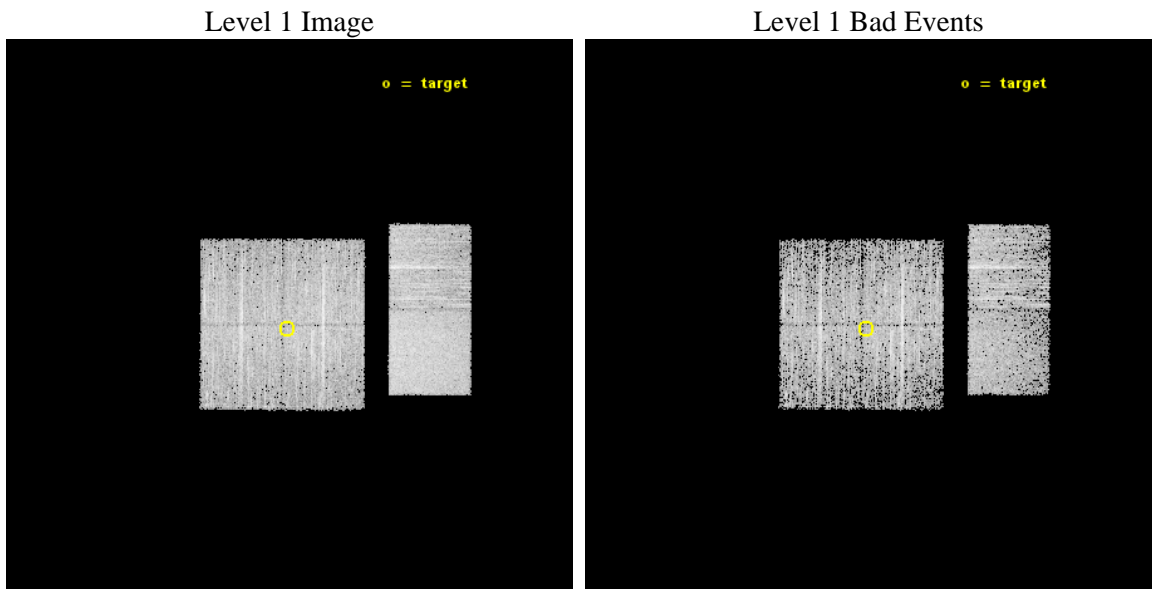
seq_num	801219	Sequence number
obs_id	15087	Observation id
title	Mapping the nearest non-cool core cluster out to R200	Proposal tit
observer	Dr Ka-wah Wong	Principal investigator
object	Antlia EB	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	160.083333	Observer's specified target RA [deg]
dec_targ	-35.327694	Observer's specified target Dec [deg]
ra_nom	160.08042498808	Nominal RA [deg]
dec_nom	-35.320038733237	Nominal Dec [deg]
roll_nom	90.206977069852	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6972.7999740839	Sum of GTIs [s]
livetime	6884.506182296	Livetime [s]
ontime0	6972.7999740839	Sum of GTIs [s]
ontime1	6972.7999740839	Sum of GTIs [s]
ontime2	6972.7999740839	Sum of GTIs [s]
ontime3	6972.7999740839	Sum of GTIs [s]
ontime6	6972.7999740839	Sum of GTIs [s]
ontime7	6972.7999740839	Sum of GTIs [s]
l2events	36631	Number of level 2 events



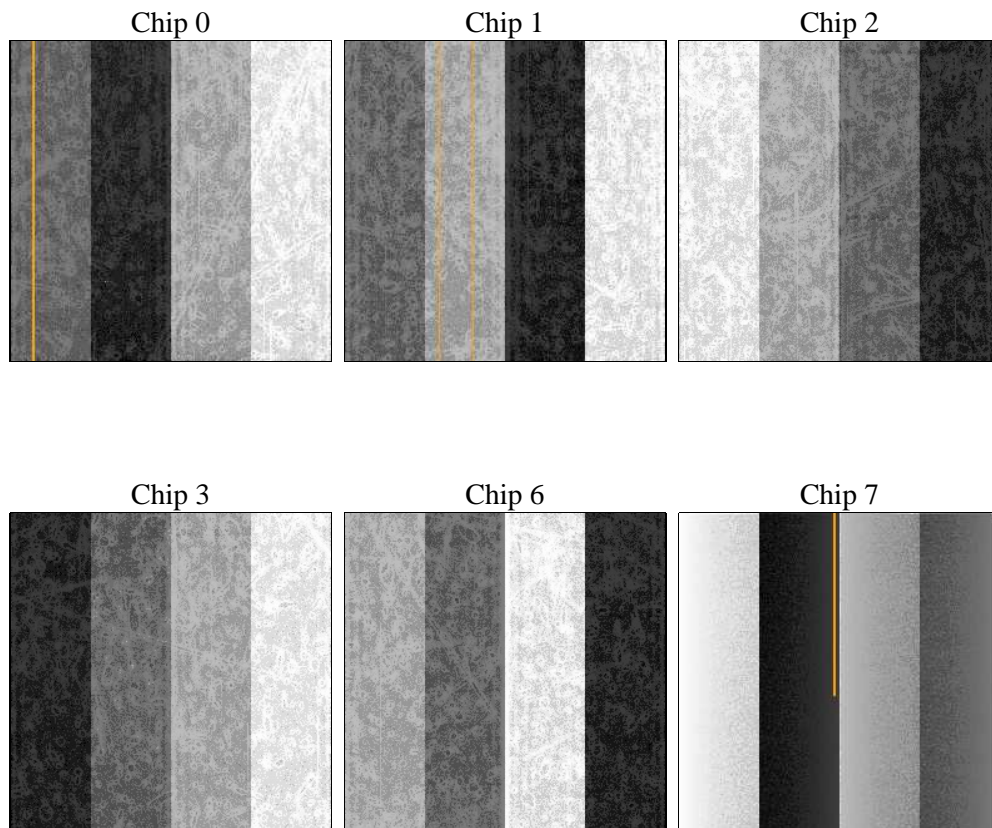
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	6972.7999740839	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	6972.7999740839	Sum of GTIs [s]
date	2014-12-07T19:18:58	Date and time of file creation	ontime1	6972.7999740839	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6972.7999740839	Sum of GTIs [s]
			ontime3	6972.7999740839	Sum of GTIs [s]
			ontime6	6972.7999740839	Sum of GTIs [s]
			ontime7	6972.7999740839	Sum of GTIs [s]
			l1events	205513	Number of level 1 events

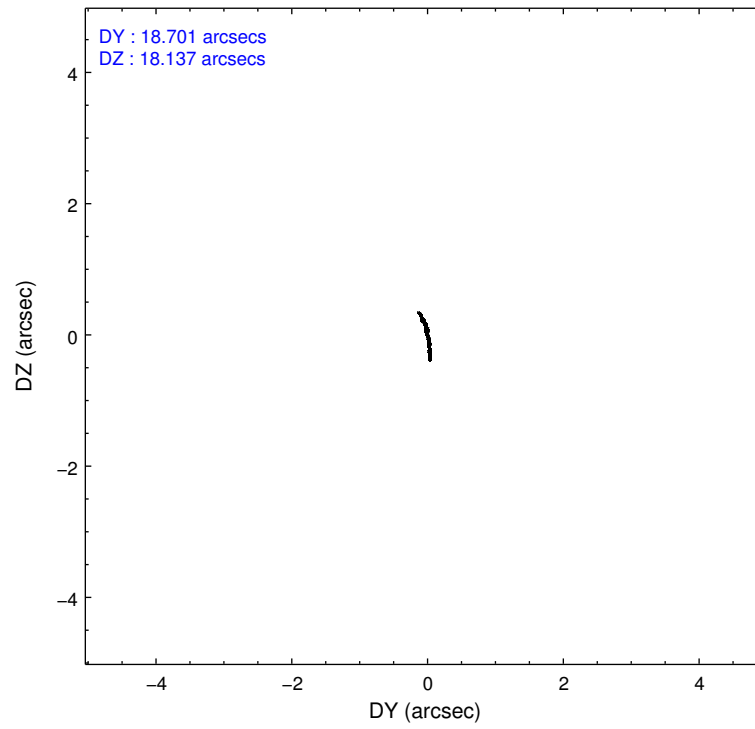
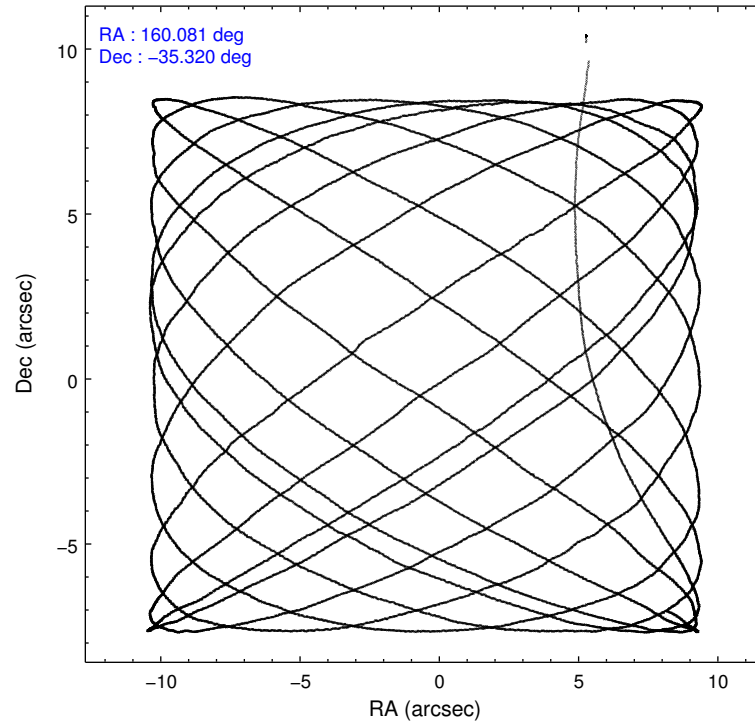
2.1.4 Events

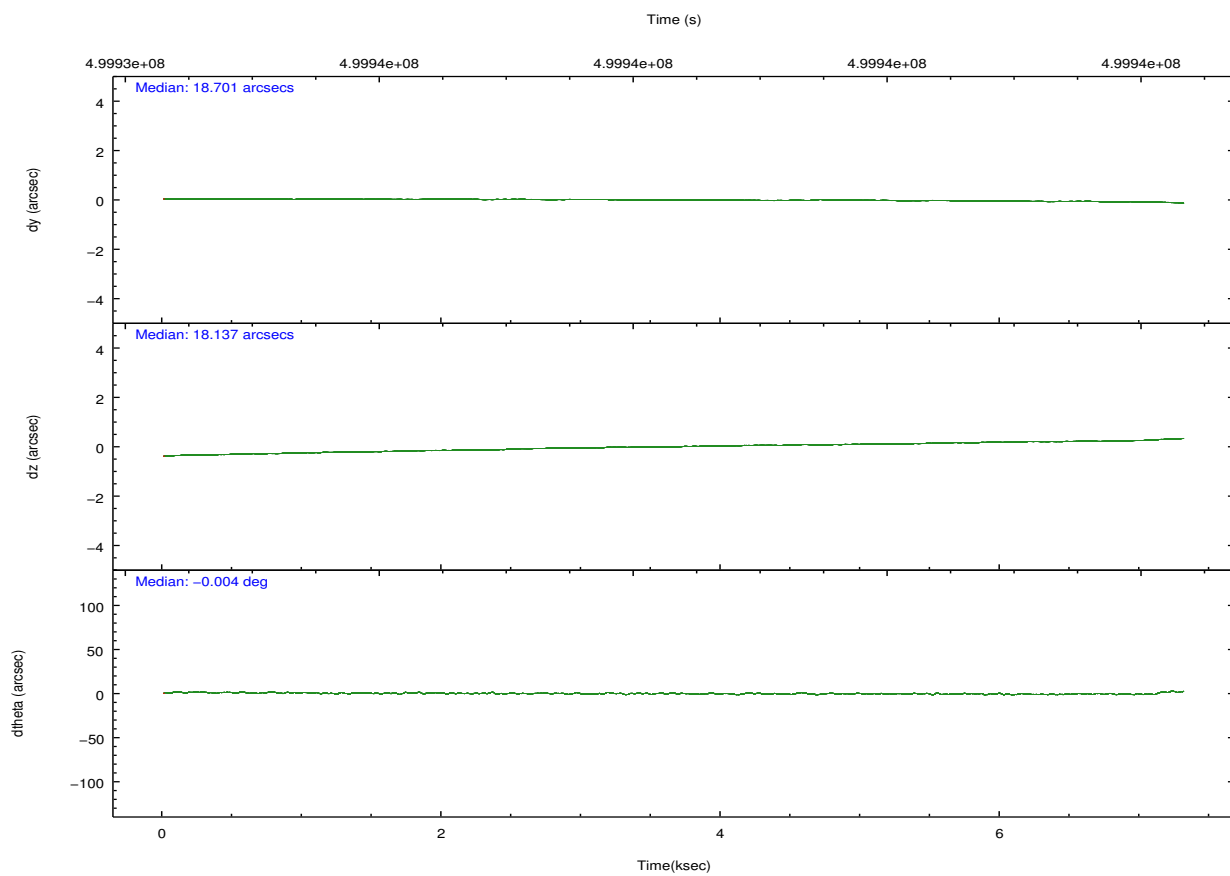
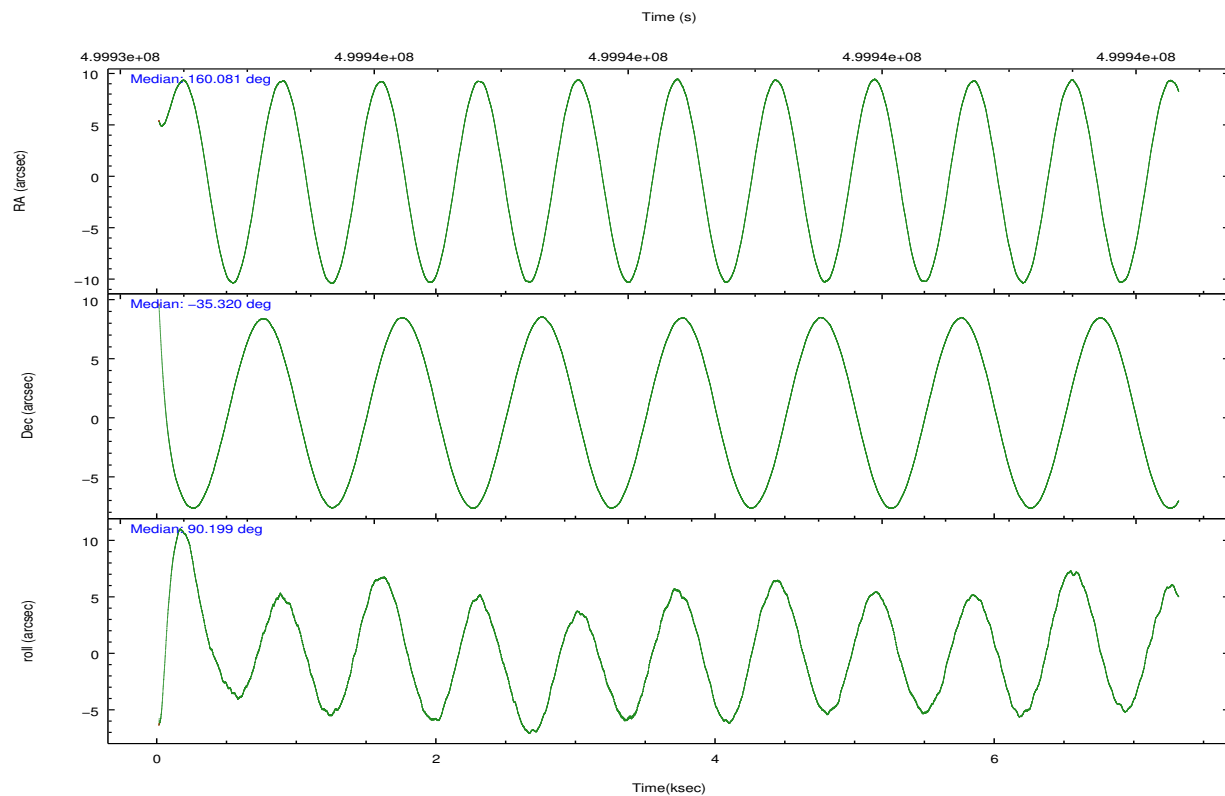
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	30157	31042	33169	31052	34465	45628	grade 0 events	1412	1558	1292	1329	1335	1827
rejected events	26222	26437	29314	27325	30359	25586		4%	5%	3%	4%	3%	4%
rejected %	86%	85%	88%	87%	88%	56%	grade 1 events	23	17	17	15	16	46
								0%	0%	0%	0%	0%	0%
							grade 2 events	886	1150	956	848	974	4196
								2%	3%	2%	2%	2%	9%
							grade 3 events	390	463	425	393	432	1755
								1%	1%	1%	1%	1%	3%
							grade 4 events	391	438	410	401	439	1652
								1%	1%	1%	1%	1%	3%
							grade 5 events	1539	1657	1446	1736	1934	4624
								5%	5%	4%	5%	5%	10%
							grade 6 events	856	997	772	757	929	10618
								2%	3%	2%	2%	2%	23%
							grade 7 events	24660	24762	27851	25573	28406	20910
								81%	79%	83%	82%	82%	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	FAINT	FAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	160.097432	160.0804249880838	CCD I2 on	Y	Y
[deg] Pointing Dec	-35.343698	-35.3200387332373	CCD I3 on	Y	Y
[deg] Pointing Roll	90.008155	90.20697706985234	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	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O2	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	499934977.184000	499933720.00796	CCD S5 on	N	N
Observation start date	2013-11-04T06:48:30	2013-11-04T06:28:40	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	499941977.184000	499942120.39592	On-chip summing requested	N	N
Observation end date	2013-11-04T08:45:10	2013-11-04T08:48:40	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



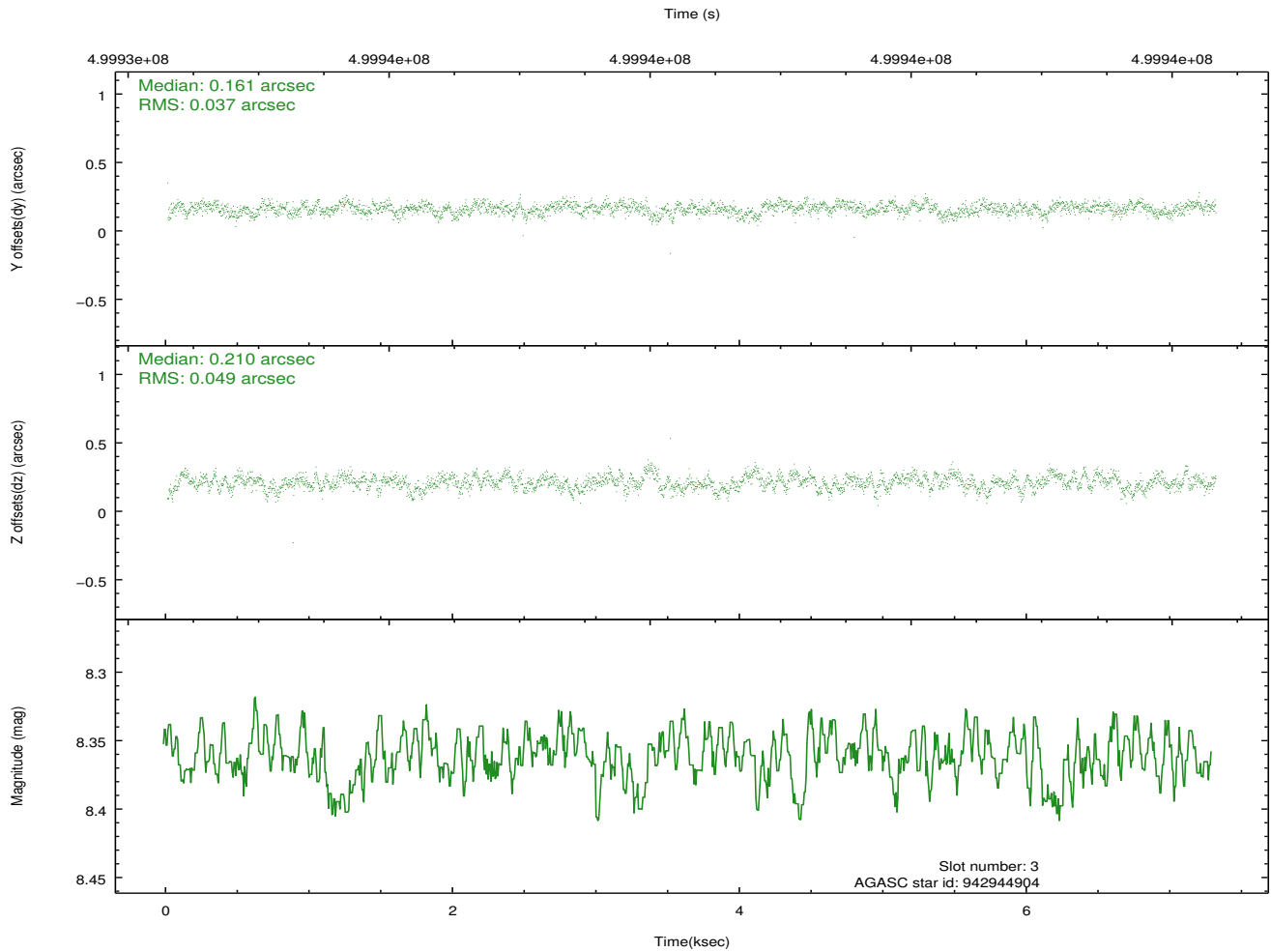
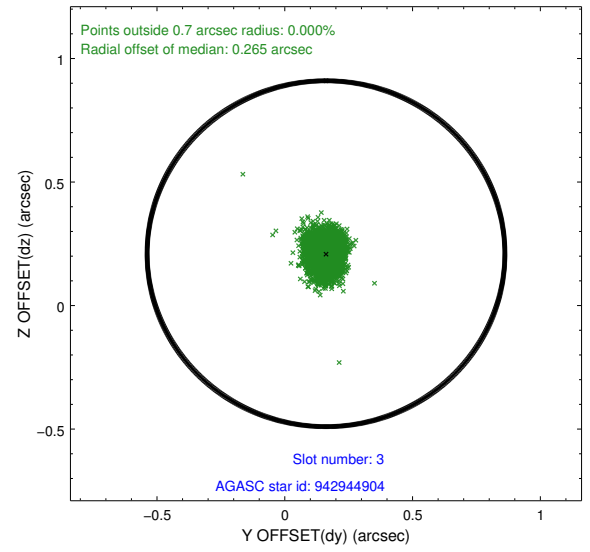
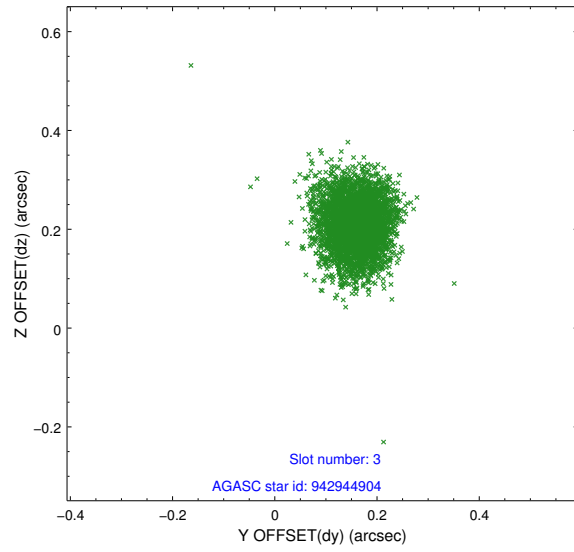


Slot Statistics

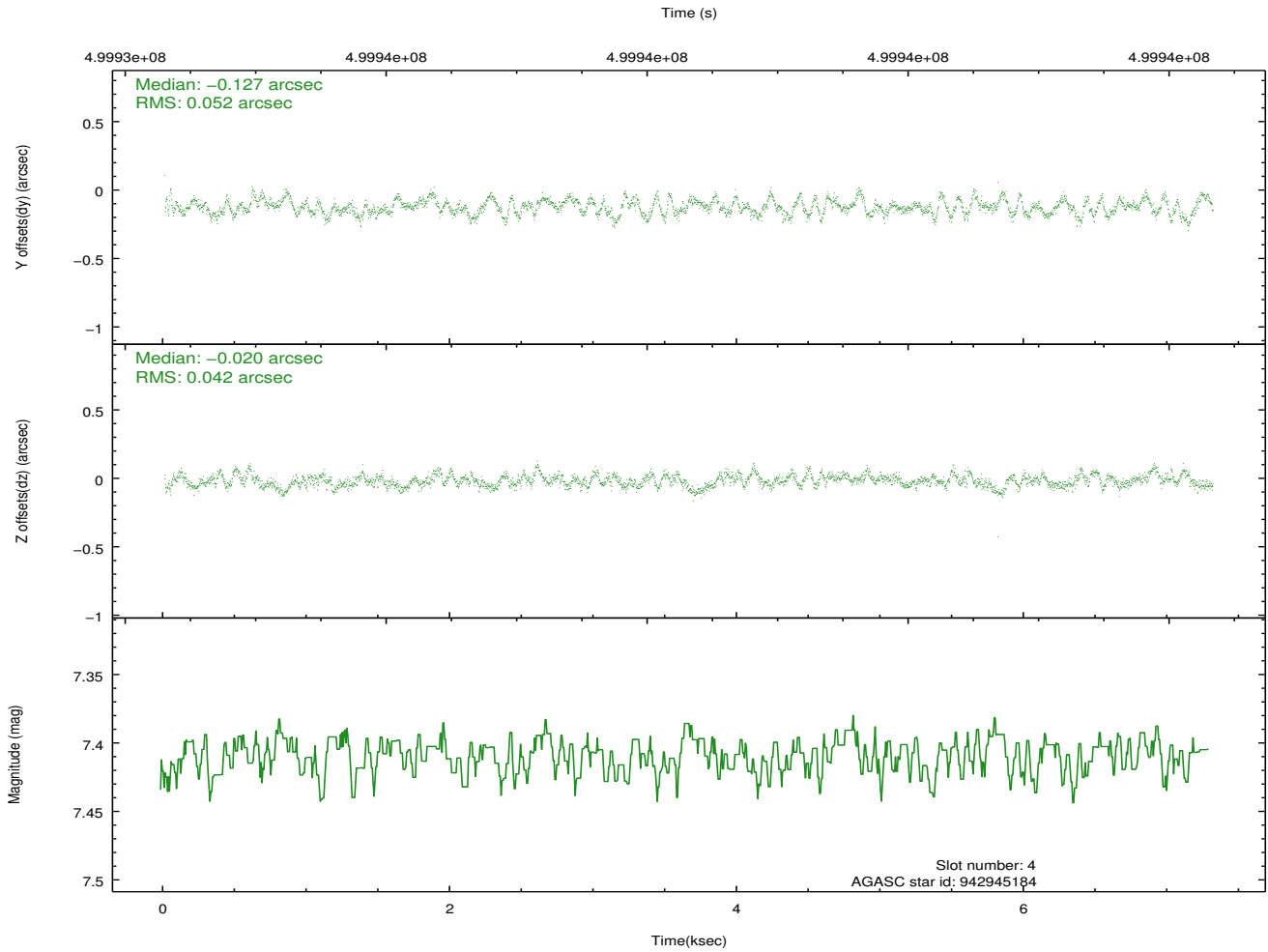
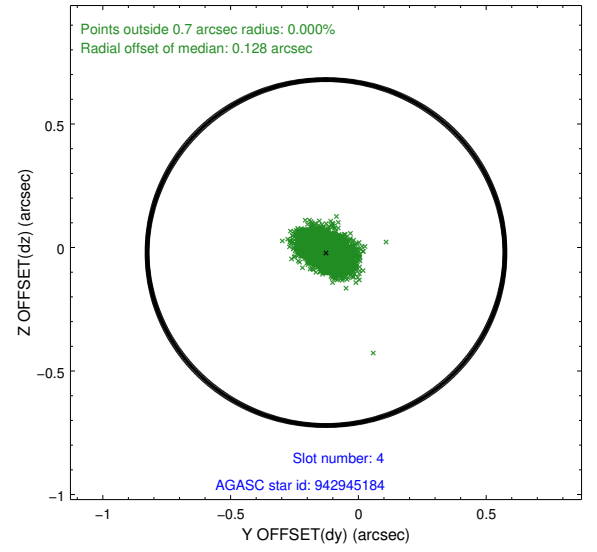
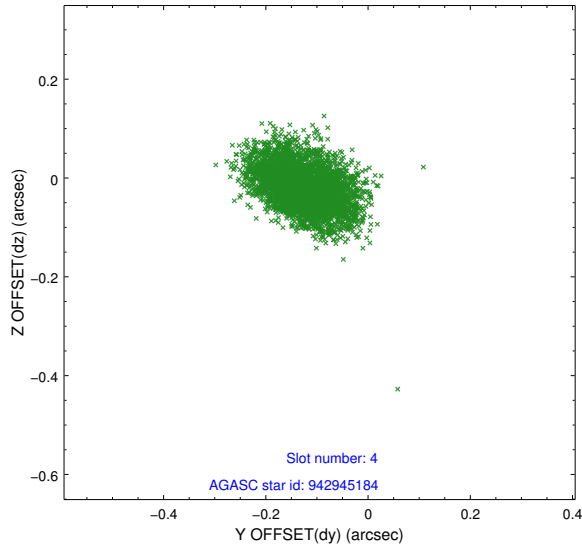
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.04	1783	-0.035	-0.051	0.015	0.024	0.000000	0.000000	920.66	-841.82
1	FID		ACIS-I-4	6.98	1783	0.240	0.076	0.010	0.017	0.000000	0.000000	2141.34	1057.77
2	FID		ACIS-I-5	7.03	1783	-0.303	0.046	0.009	0.015	0.000000	0.000000	-1826.68	1056.32
3	GUIDE	used	942944904	8.36	3564	0.161	0.210	0.065	0.106	160.776082	-35.612743	-974.80	-1985.35
4	GUIDE	used	942945184	7.41	3564	-0.127	-0.020	0.072	0.116	160.788870	-35.004125	1214.96	-2039.10
5	GUIDE	used	942946336	8.57	3564	0.003	-0.122	0.077	0.126	160.497852	-35.067137	993.96	-1179.58
6	GUIDE	used	943345760	7.45	3565	-0.089	-0.344	0.079	0.134	159.425264	-35.720031	-1360.90	1964.59
7	GUIDE	used	943466144	7.29	3564	0.039	0.275	0.096	0.155	160.376413	-35.731127	-1395.79	-813.83

2.4 Star Slots

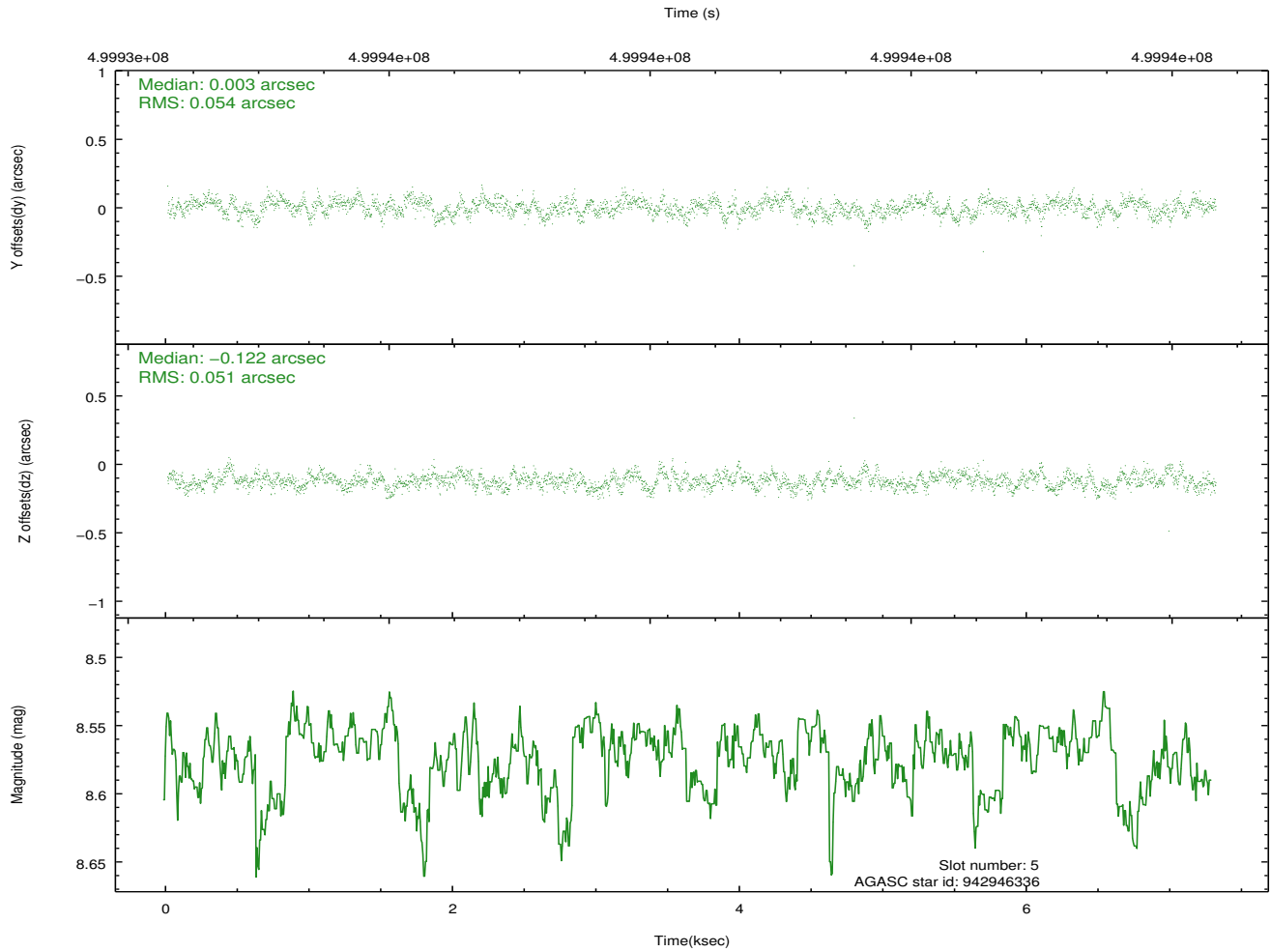
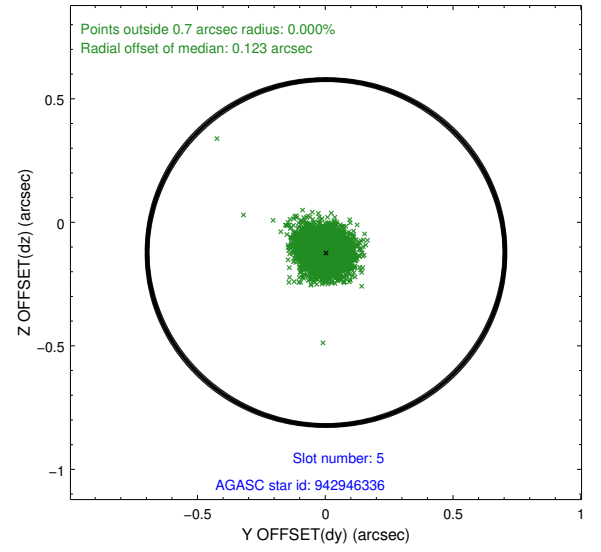
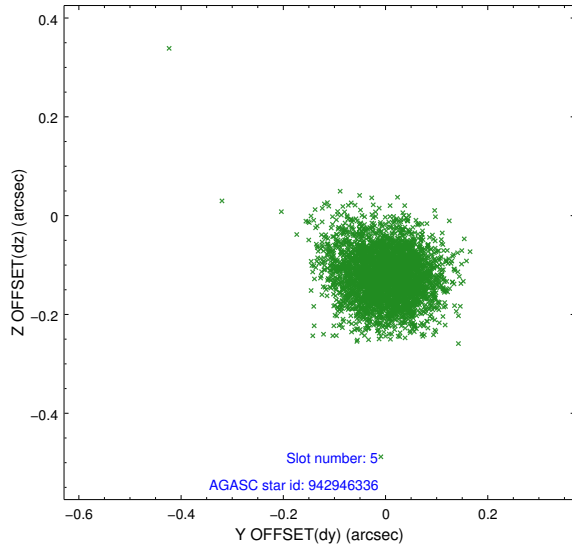
2.4.1 Slot 3



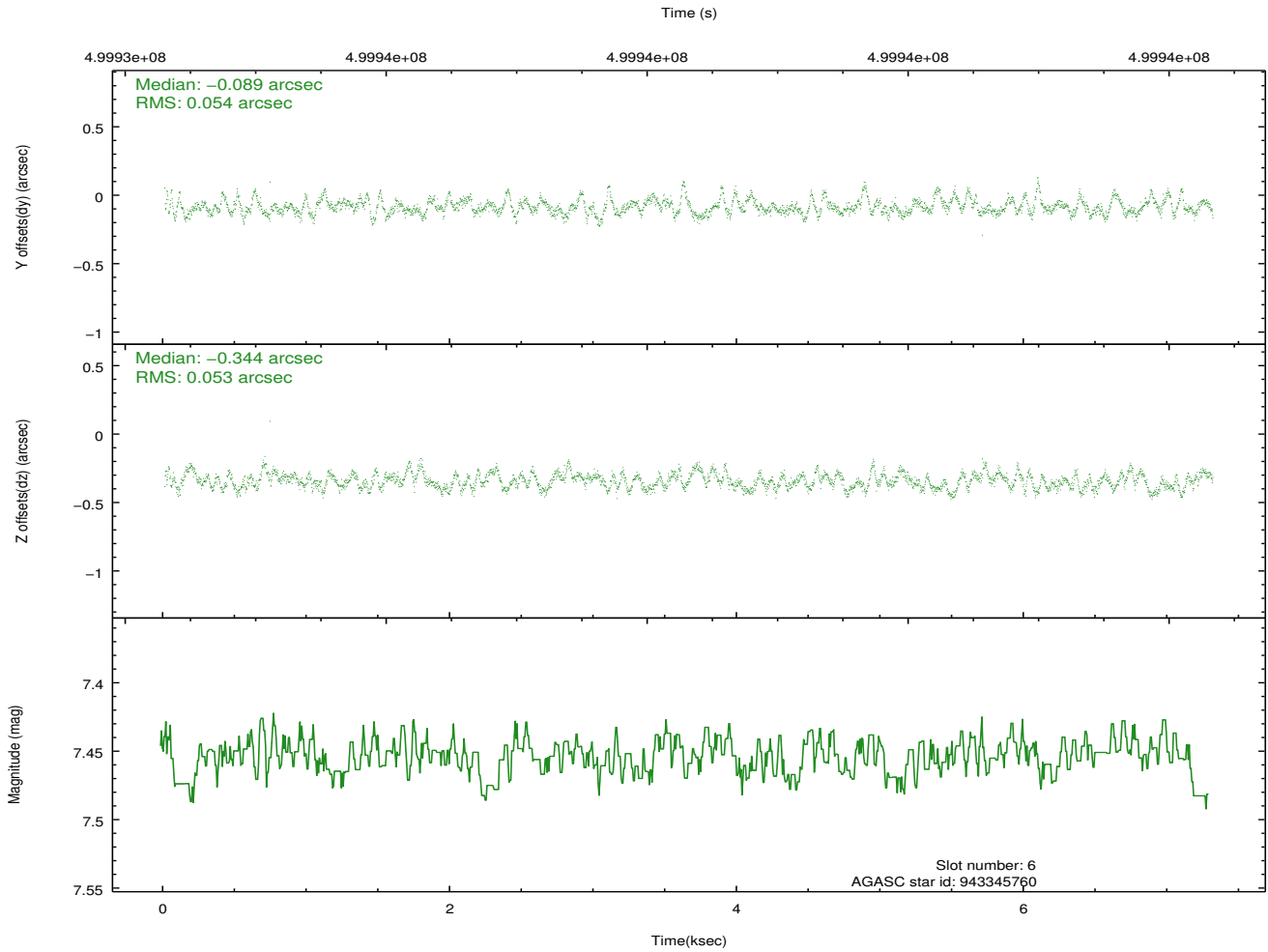
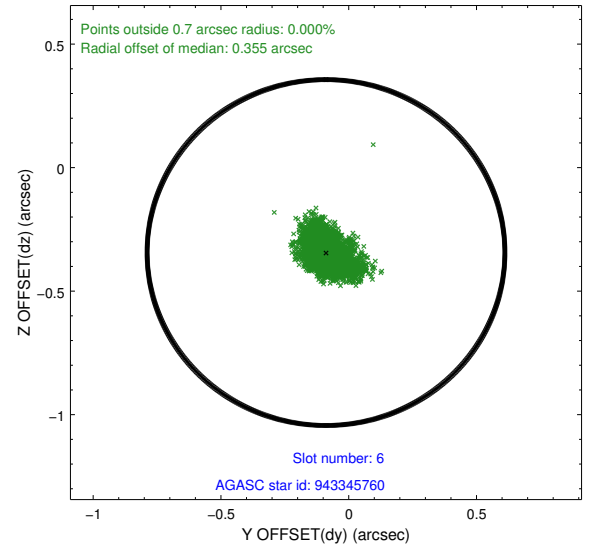
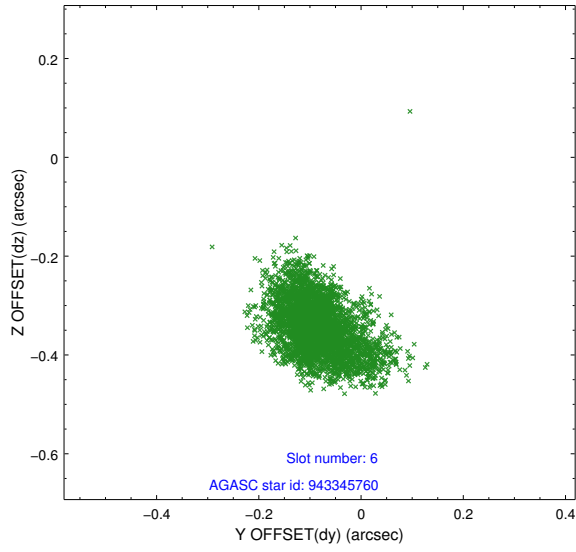
2.4.2 Slot 4



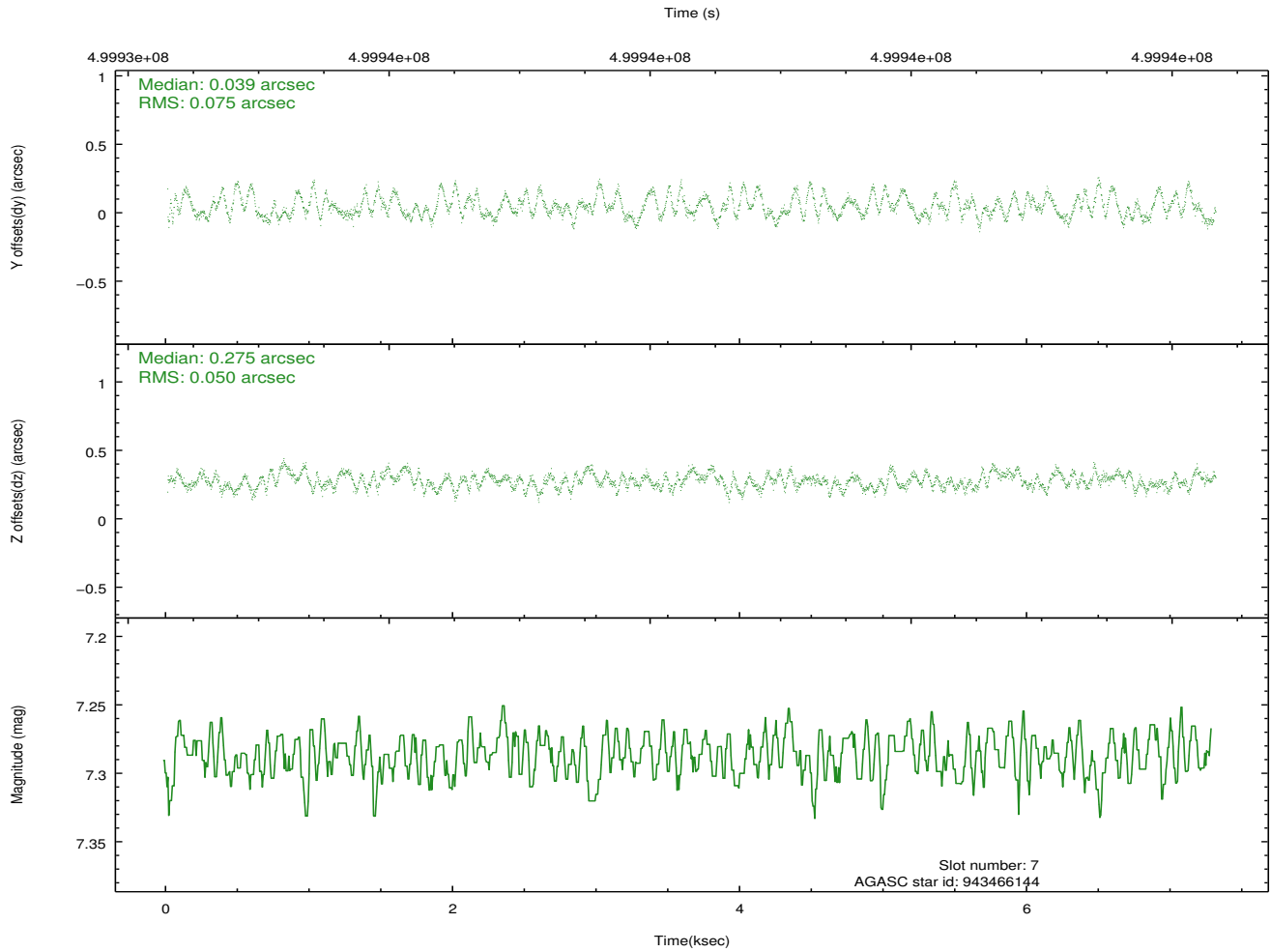
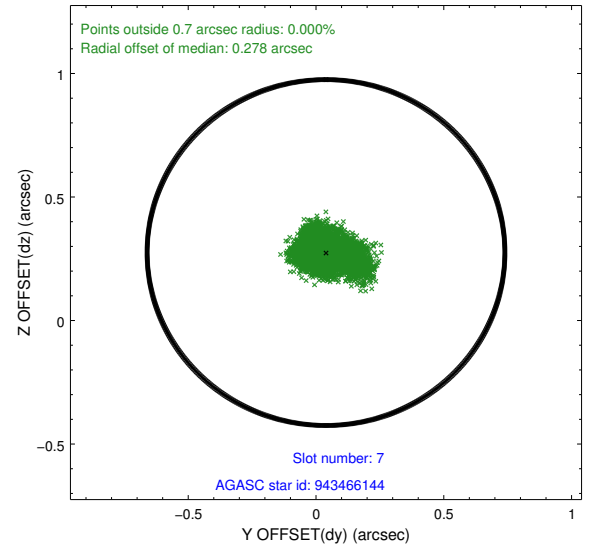
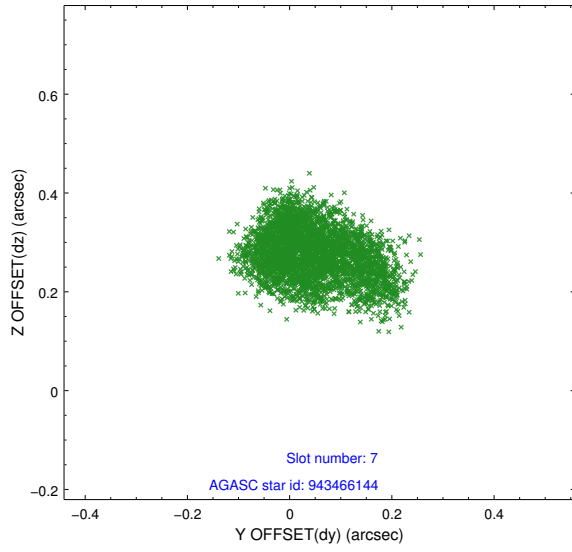
2.4.3 Slot 5



2.4.4 Slot 6

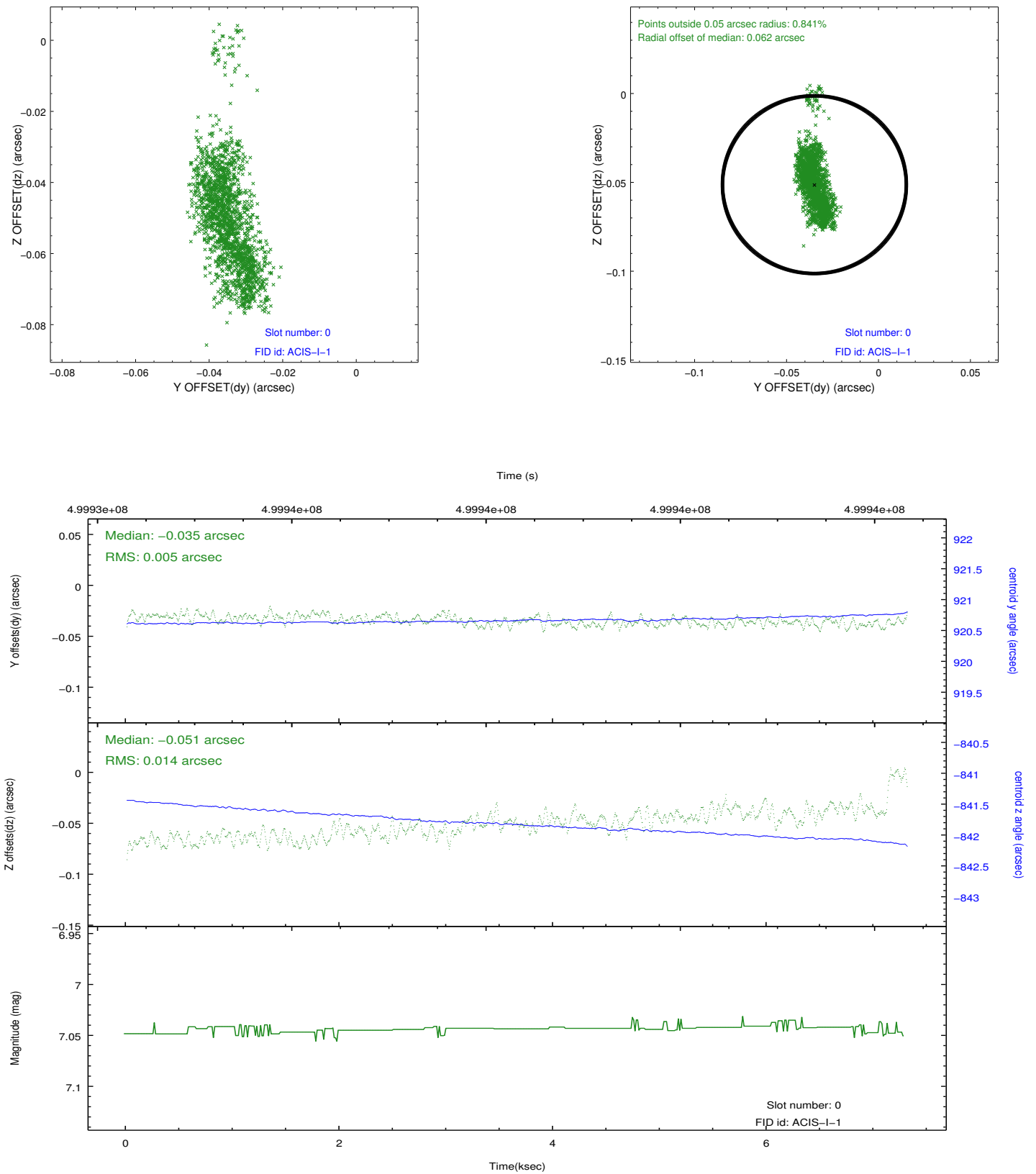


2.4.5 Slot 7

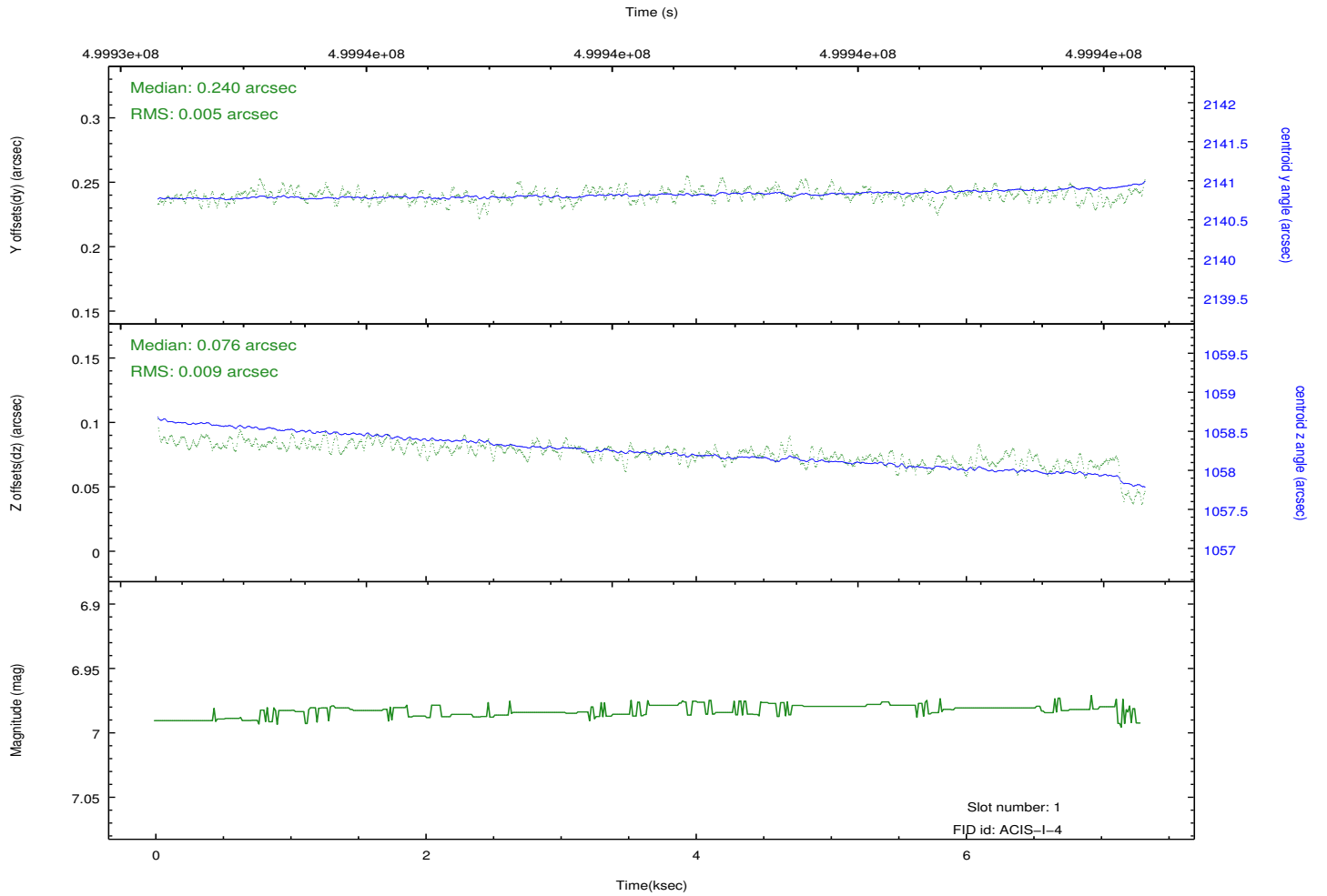
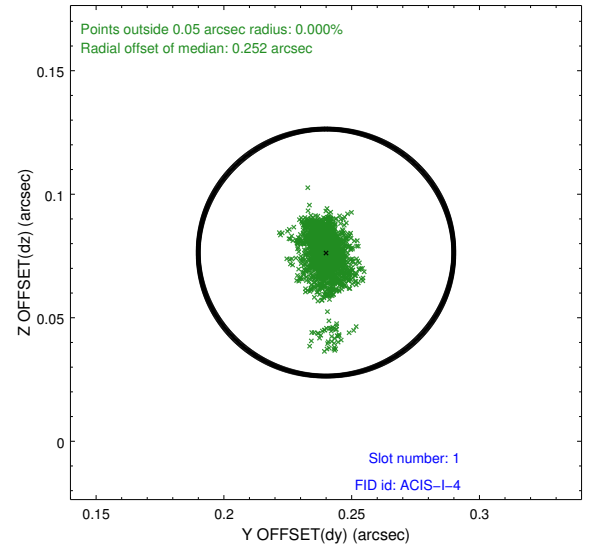
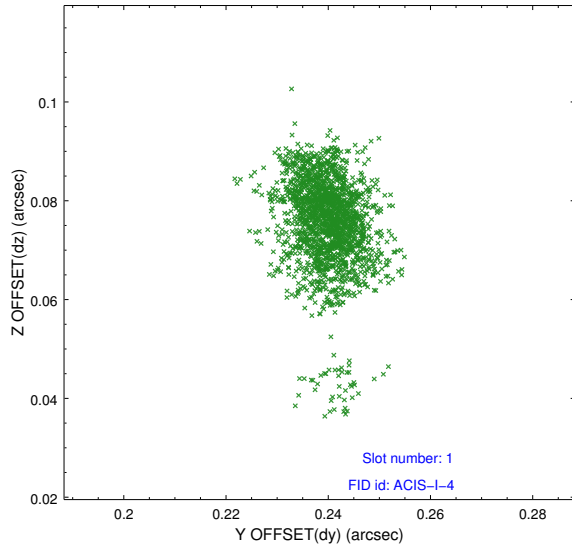


2.5 FID Slots

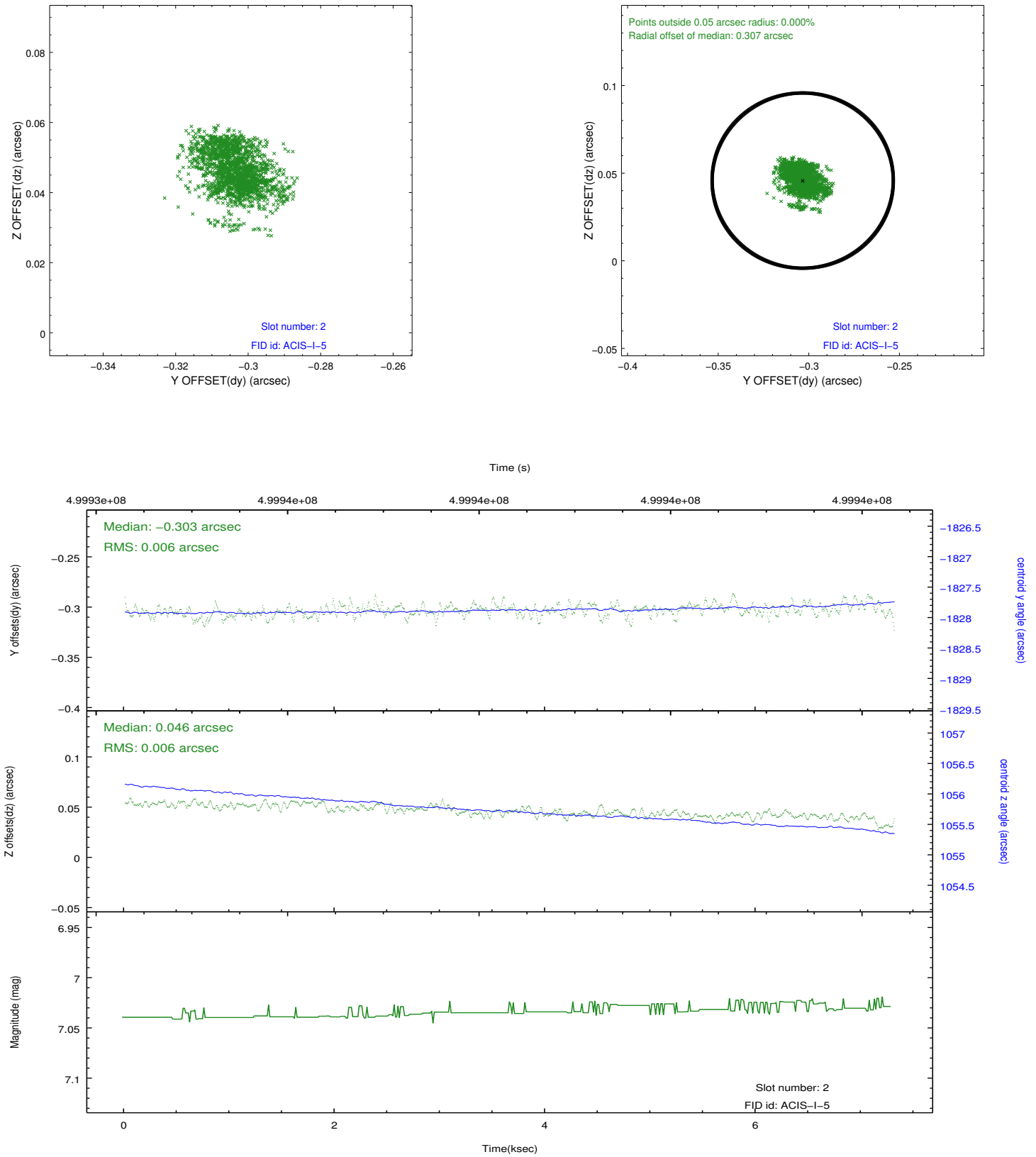
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.9727999740839

A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.