

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 21566 - L2 Version 1
Chandra X-Ray Center

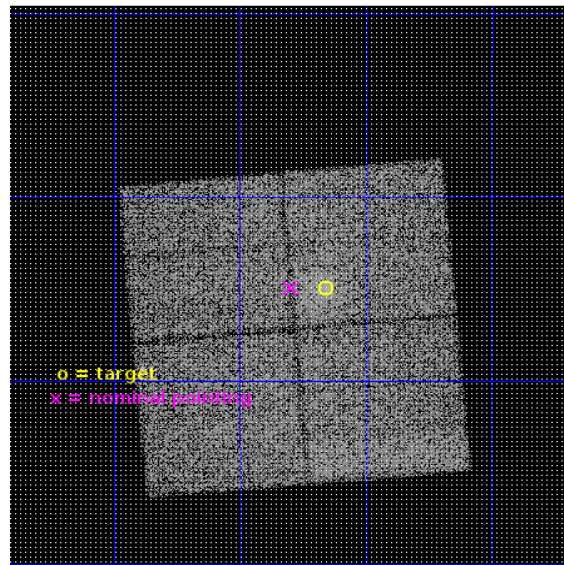
L2 Processing Date : Mar 20 2019

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1 Front

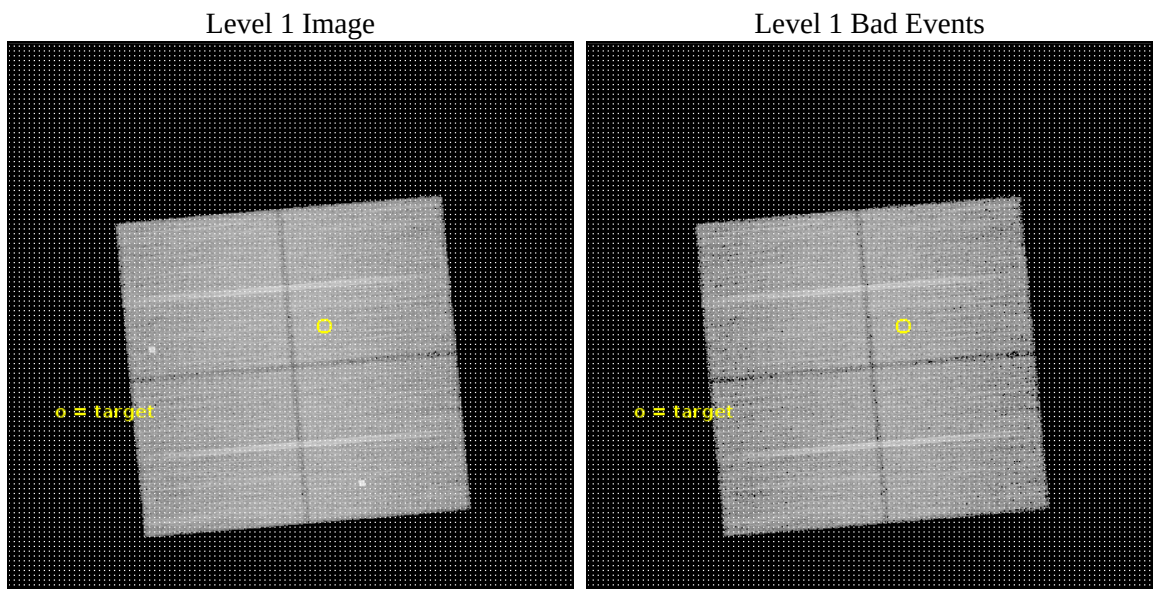
seq_num	801844	Sequence number
obs_id	21566	Observation id
title	Characterizing the most X-ray luminous galaxy clusters at z=0.5-1	
observer	Harald Ebeling	Principal investigator
object	eMACSJ1144.2+2836	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	176.039167	Observer's specified target RA [deg]
dec_targ	-28.583333	Observer's specified target Dec [deg]
ra_nom	176.07386548357	Nominal RA [deg]
dec_nom	-28.582450123677	Nominal Dec [deg]
roll_nom	354.90746371268	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31430.818171263	Sum of GTIs [s]
livetime	31020.151392823	Livetime [s]
ontime0	31433.959151626	Sum of GTIs [s]
ontime1	31433.959201932	Sum of GTIs [s]
ontime2	31433.959221482	Sum of GTIs [s]
ontime3	31430.818171263	Sum of GTIs [s]
l2events	90508	Number of level 2 events



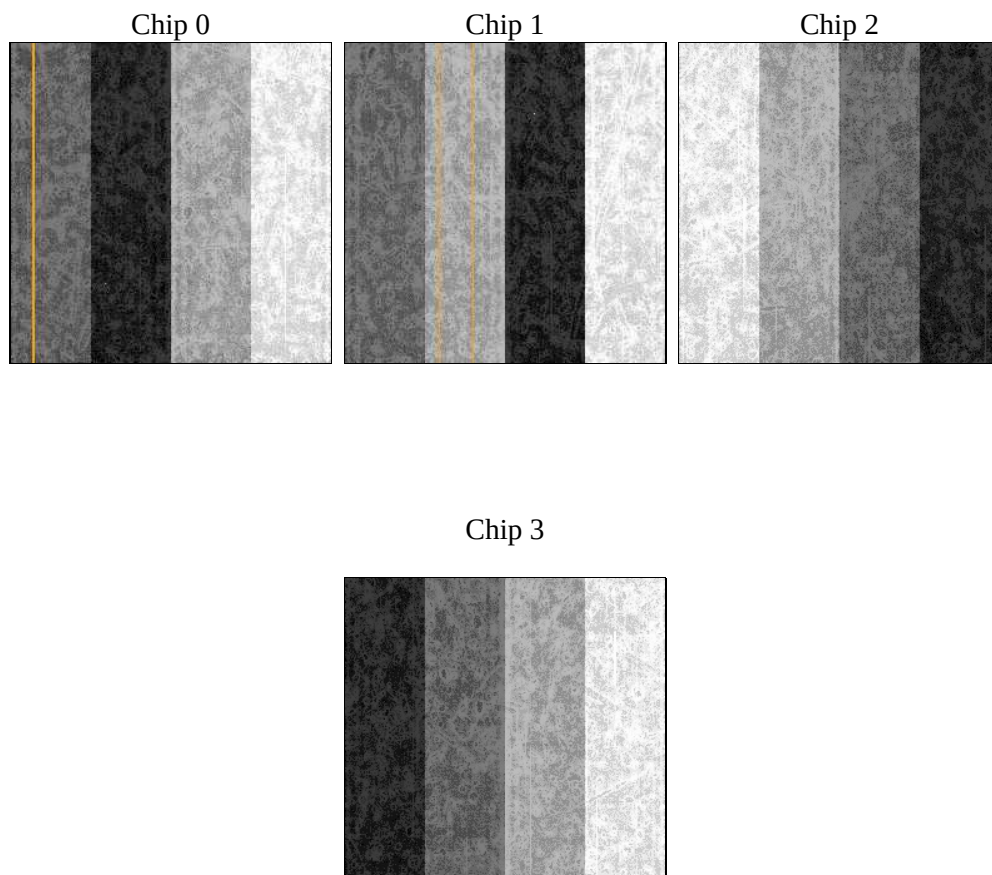
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31360.223000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	31430.818171263	Sum of GTIs [s]
caldbver	4.8.2	 	ontime0	31433.959151626	Sum of GTIs [s]
date	2019-03-20T05:59:06	Date and time of file creation	ontime1	31433.959201932	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	31433.959221482	Sum of GTIs [s]
			ontime3	31430.818171263	Sum of GTIs [s]
			l1events	932193	Number of level 1 events

2.1.4 Events

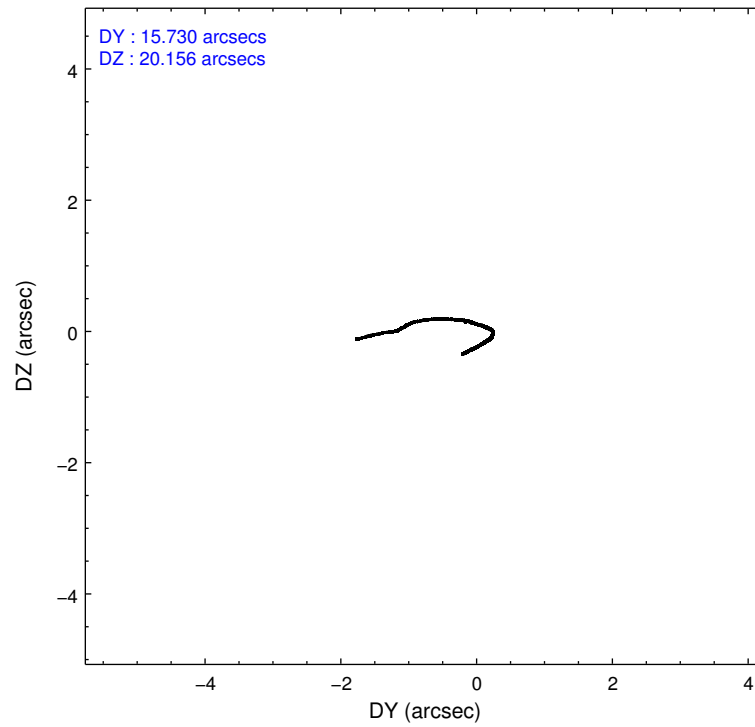
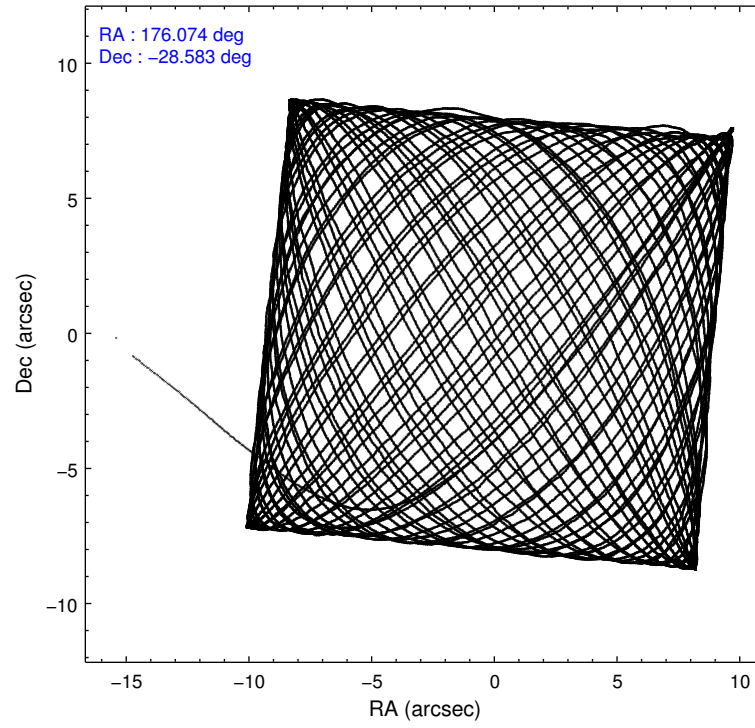
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	221160	228836	244466	237731
rejected events	194151	196538	216959	211209
rejected %	87%	85%	88%	88%

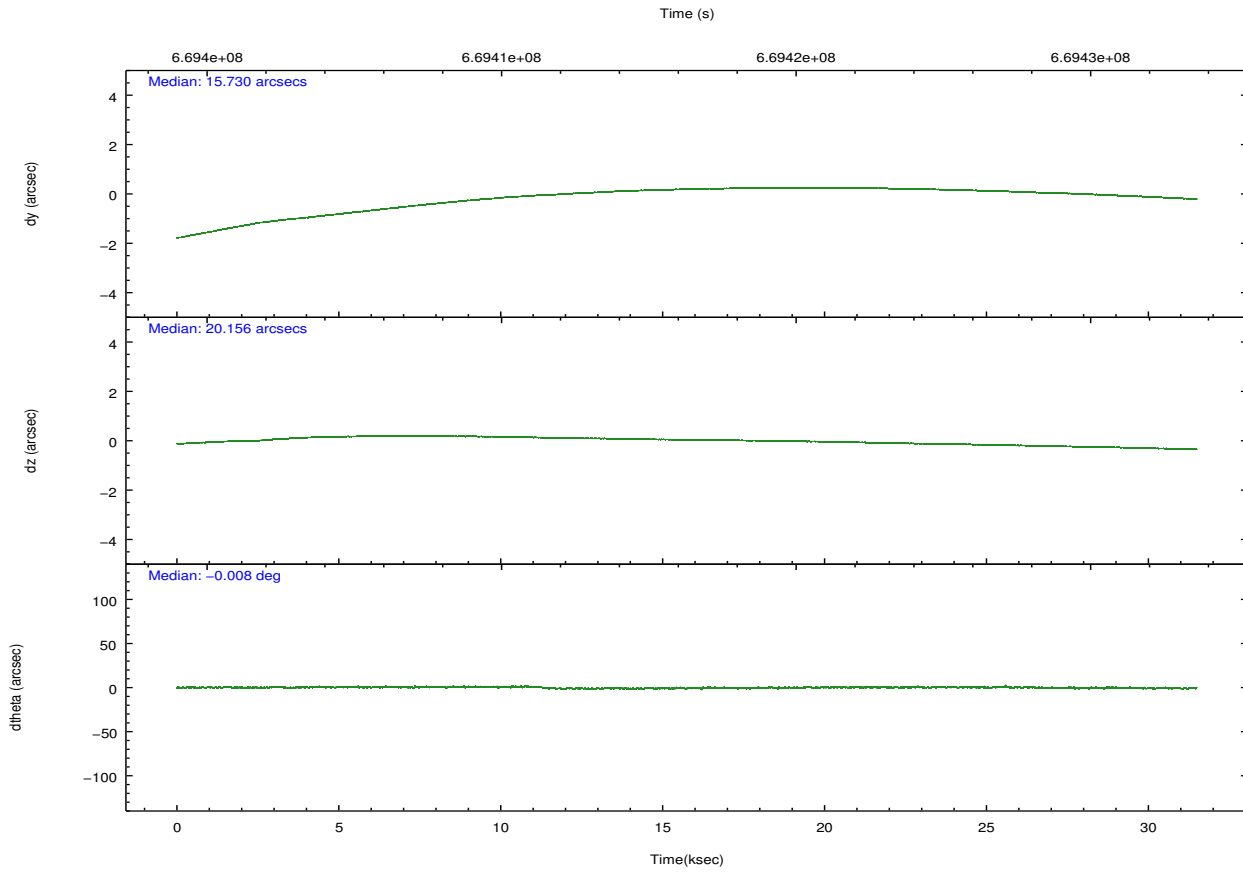
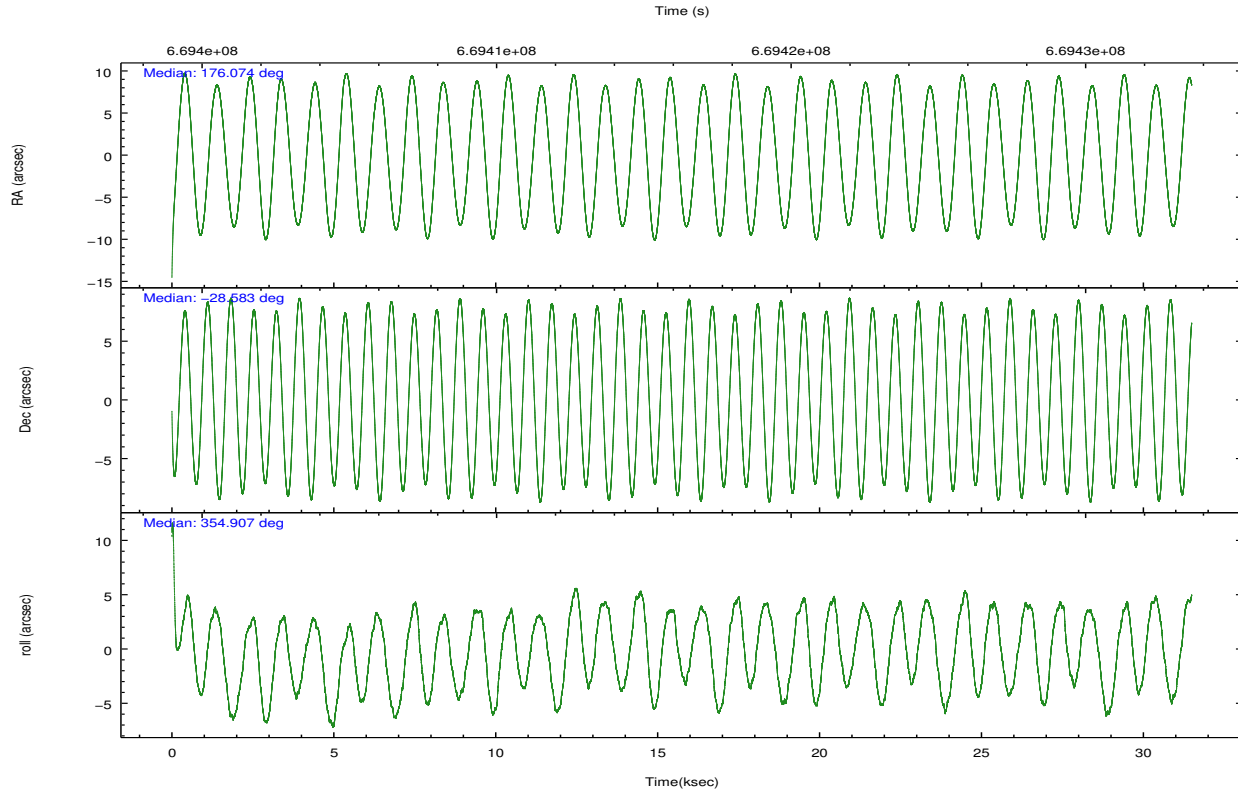
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9023	12621	10806	9986
	4%	5%	4%	4%
grade 1 events	123	129	163	127
	0%	0%	0%	0%
grade 2 events	6779	7631	6320	5701
	3%	3%	2%	2%
grade 3 events	2838	2677	2541	2669
	1%	1%	1%	1%
grade 4 events	2598	2704	2629	2659
	1%	1%	1%	1%
grade 5 events	10449	10714	9263	11464
	4%	4%	3%	4%
grade 6 events	5773	6670	5213	5511
	2%	2%	2%	2%
grade 7 events	183577	185690	207531	199614
	83%	81%	84%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	176.045394	176.0738654835719	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.594164	-28.58245012367707	Alternating exposures requested	N	N
[deg] Pointing Roll	354.685146	354.9074637126815	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-229.442463	-229.4438428438578			
[mm] SIM translation stage offset	-4.15	-4.148610159071865			
[s] Observation start time (MET)	669400677.184000	669399656.80067			
Observation start date	2019-03-19T16:36:48	2019-03-19T16:20:56			
[s] Observation end time (MET)	669432037.184000	669432460.90263			
Observation end date	2019-03-20T01:19:28	2019-03-20T01:27:40			
Read mode	TIMED	TIMED			

2.3 Aspect



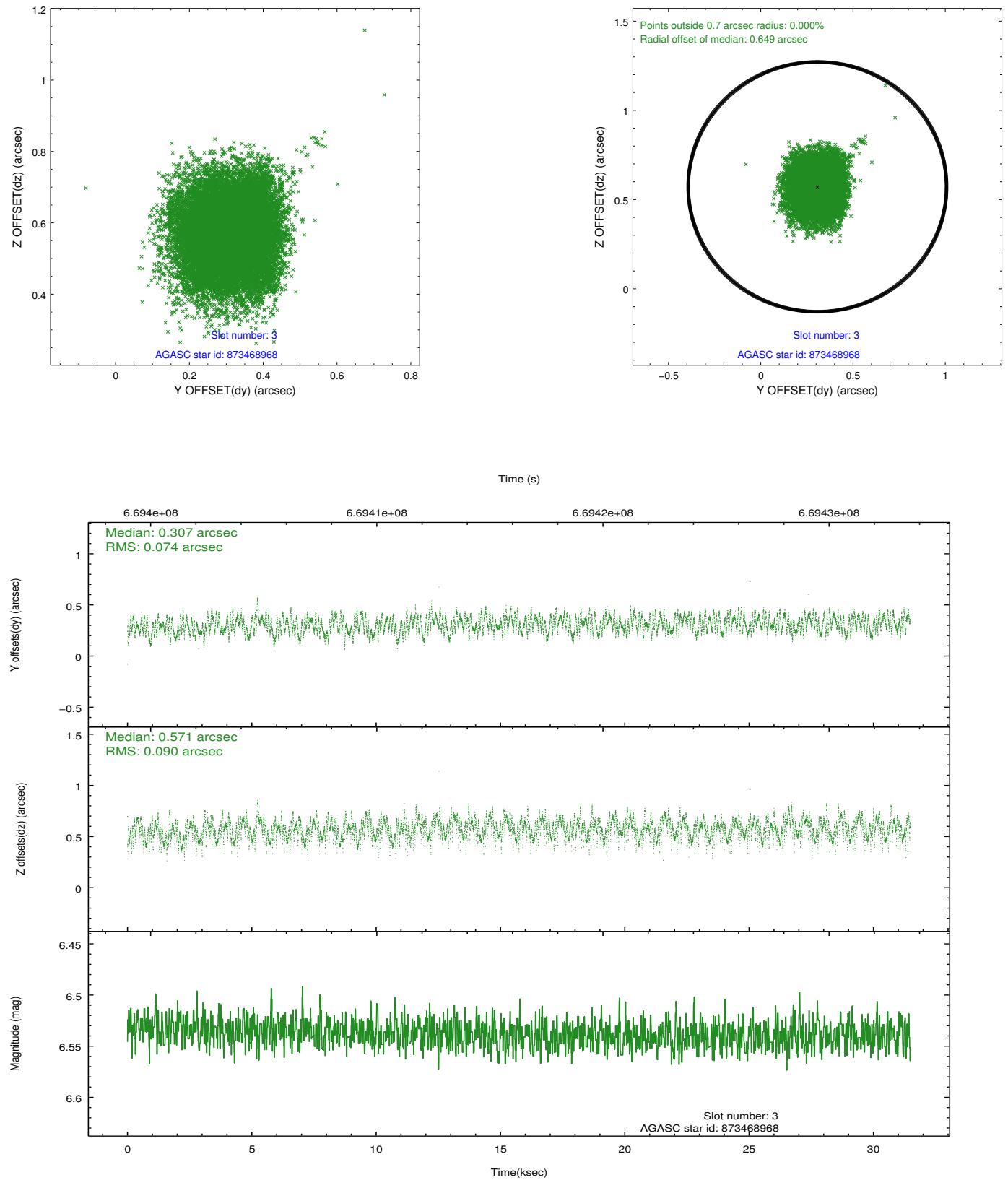


Slot Statistics

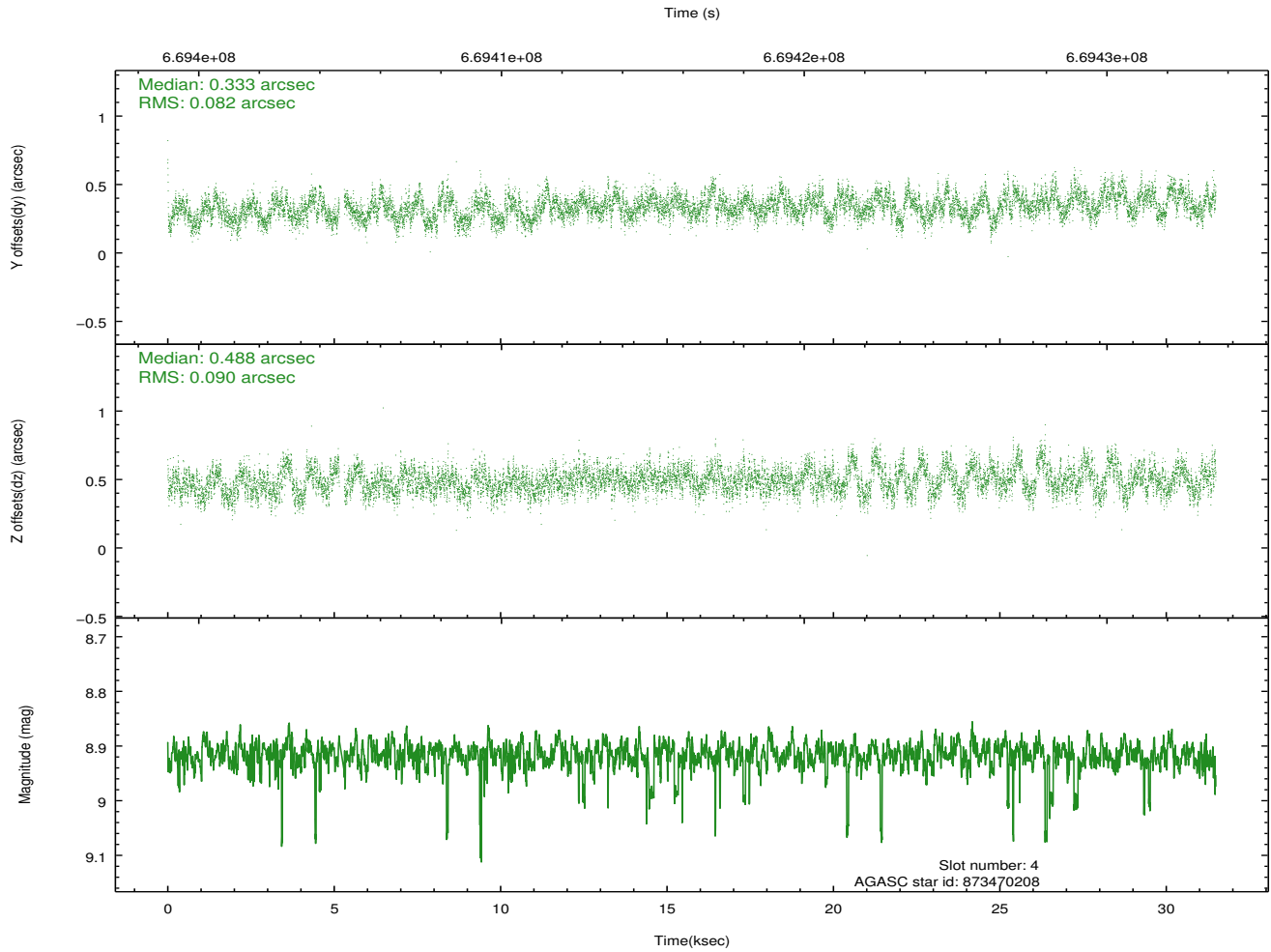
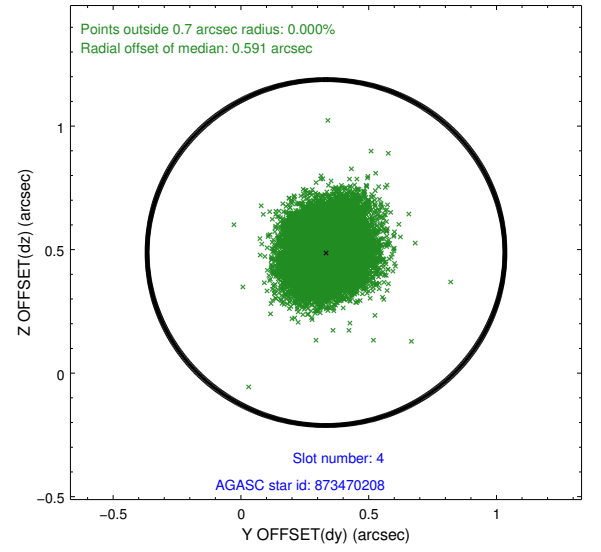
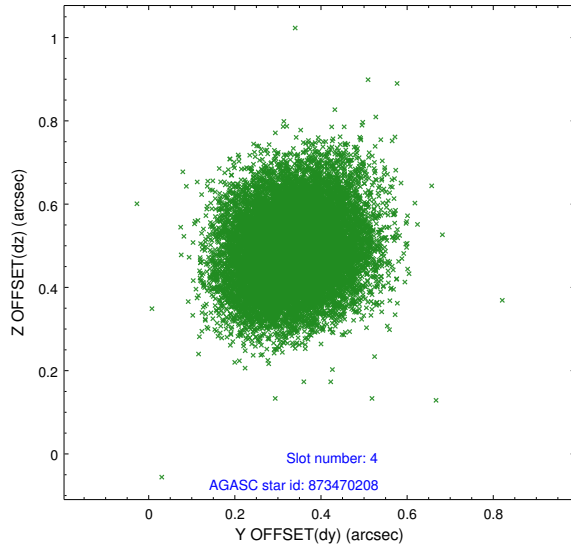
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.17	7681	1.000	0.178	-0.180	0.009	0.016	0.000000	0.000000	924.11	-929
1	FID		ACIS-I-5	7.15	7679	1.000	-0.550	0.064	0.019	0.037	0.000000	0.000000	-1824.87	968
2	FID		ACIS-I-6	7.17	7680	1.000	0.283	0.186	0.017	0.035	0.000000	0.000000	389.44	1613
3	GUIDE	used	873468968	6.54	15362	1.000	0.307	0.571	0.126	0.192	175.284950	-29.196302	-2183.81	-2382
4	GUIDE	used	873470208	8.92	15262	1.000	0.333	0.488	0.131	0.206	175.280584	-28.869448	-2307.02	-1216
5	GUIDE	used	874643832	7.80	15354	1.000	-0.436	-0.656	0.123	0.200	176.090463	-28.028244	-46.10	2041
6	GUIDE	used	875168240	8.70	15337	1.000	0.155	0.021	0.188	0.319	176.613915	-29.278043	2007.09	-2289
7	GUIDE	used	875168512	8.48	15350	1.000	-0.364	-0.415	0.117	0.186	176.358016	-28.372016	912.11	886

2.4 Star Slots

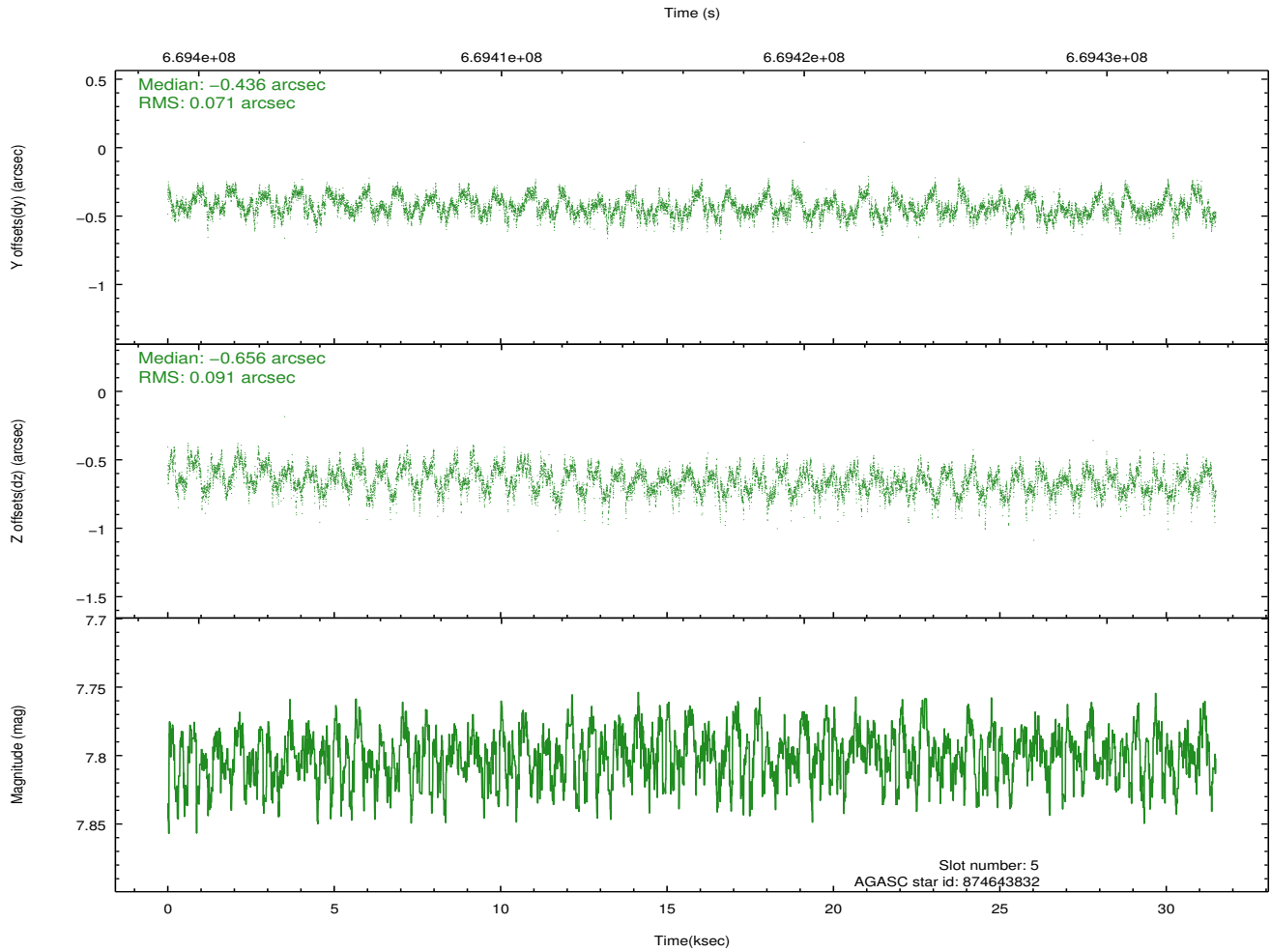
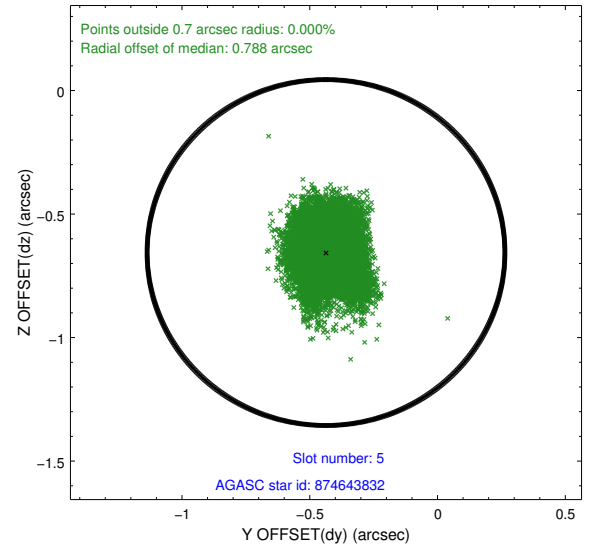
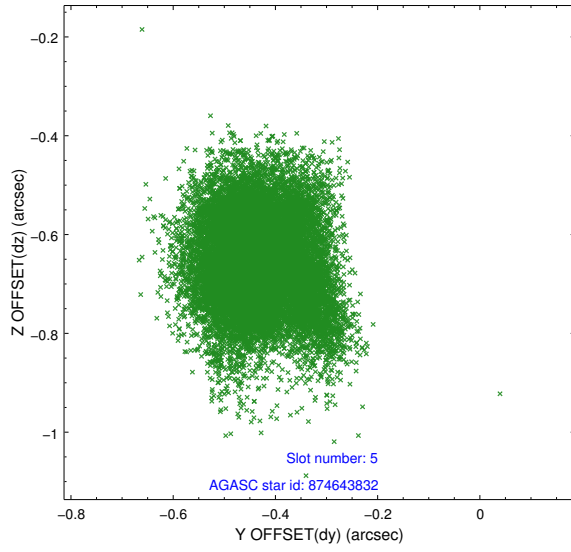
2.4.1 Slot 3



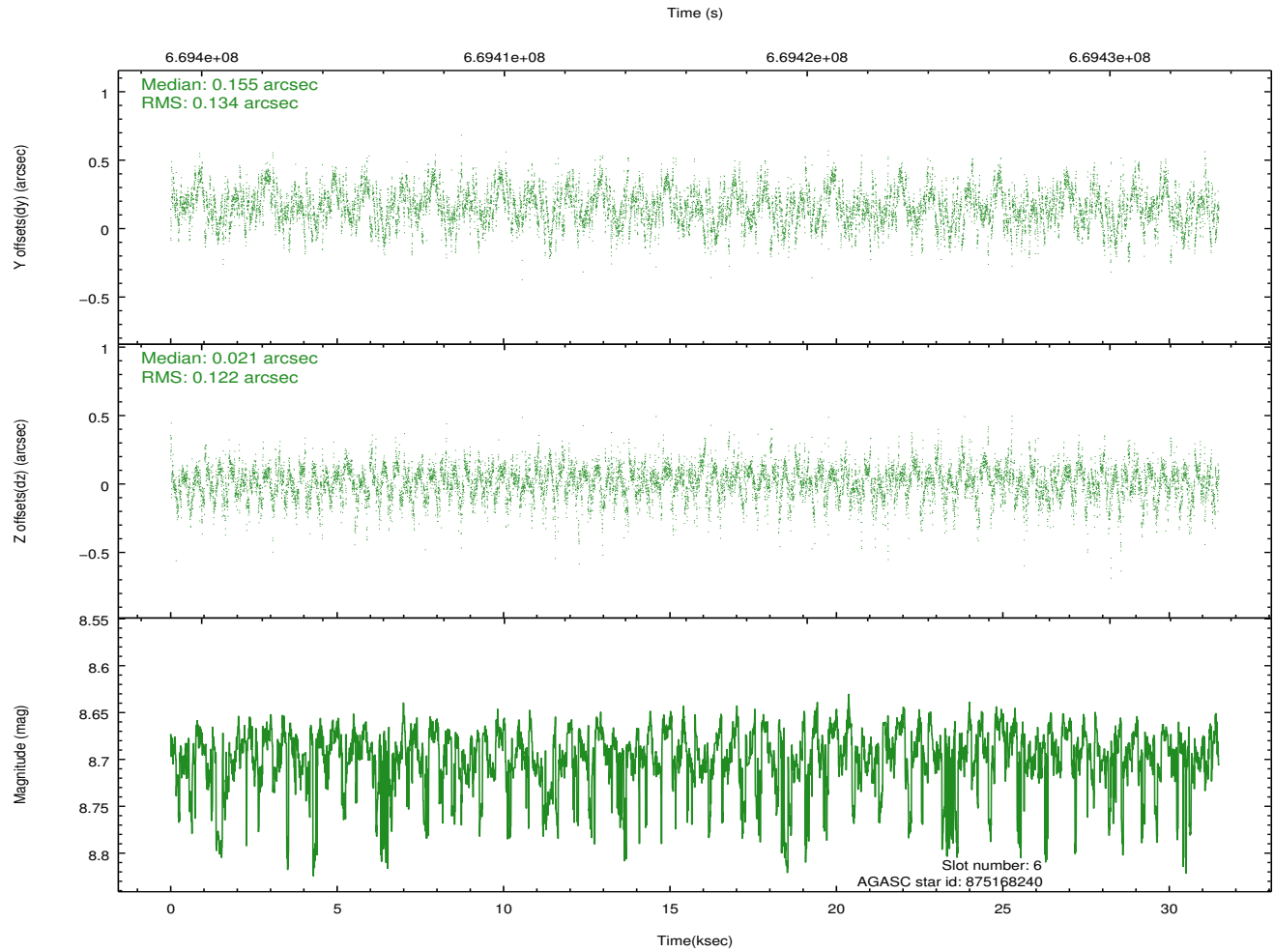
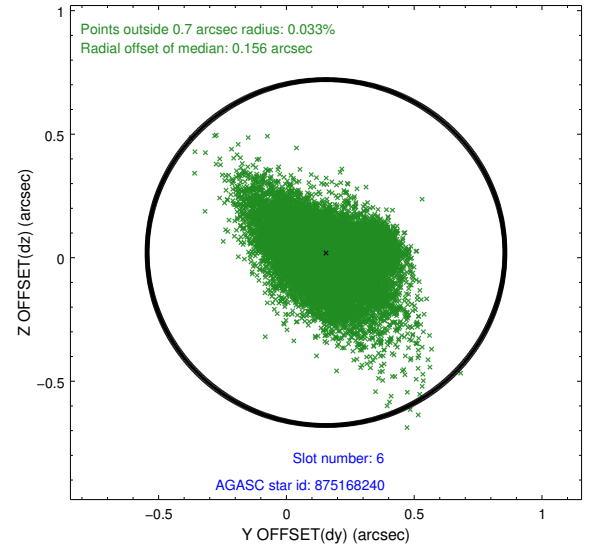
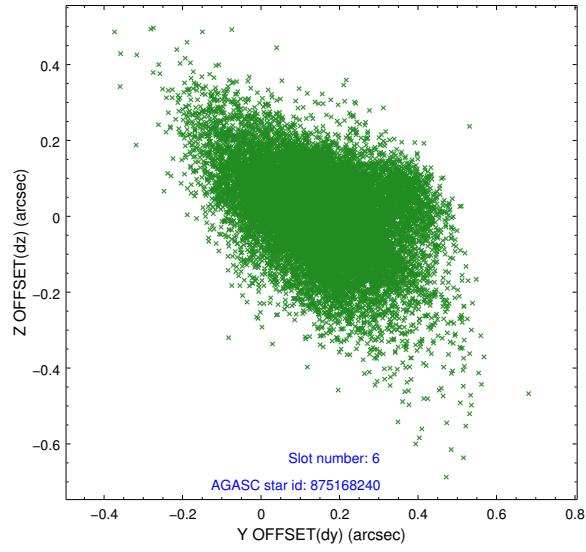
2.4.2 Slot 4



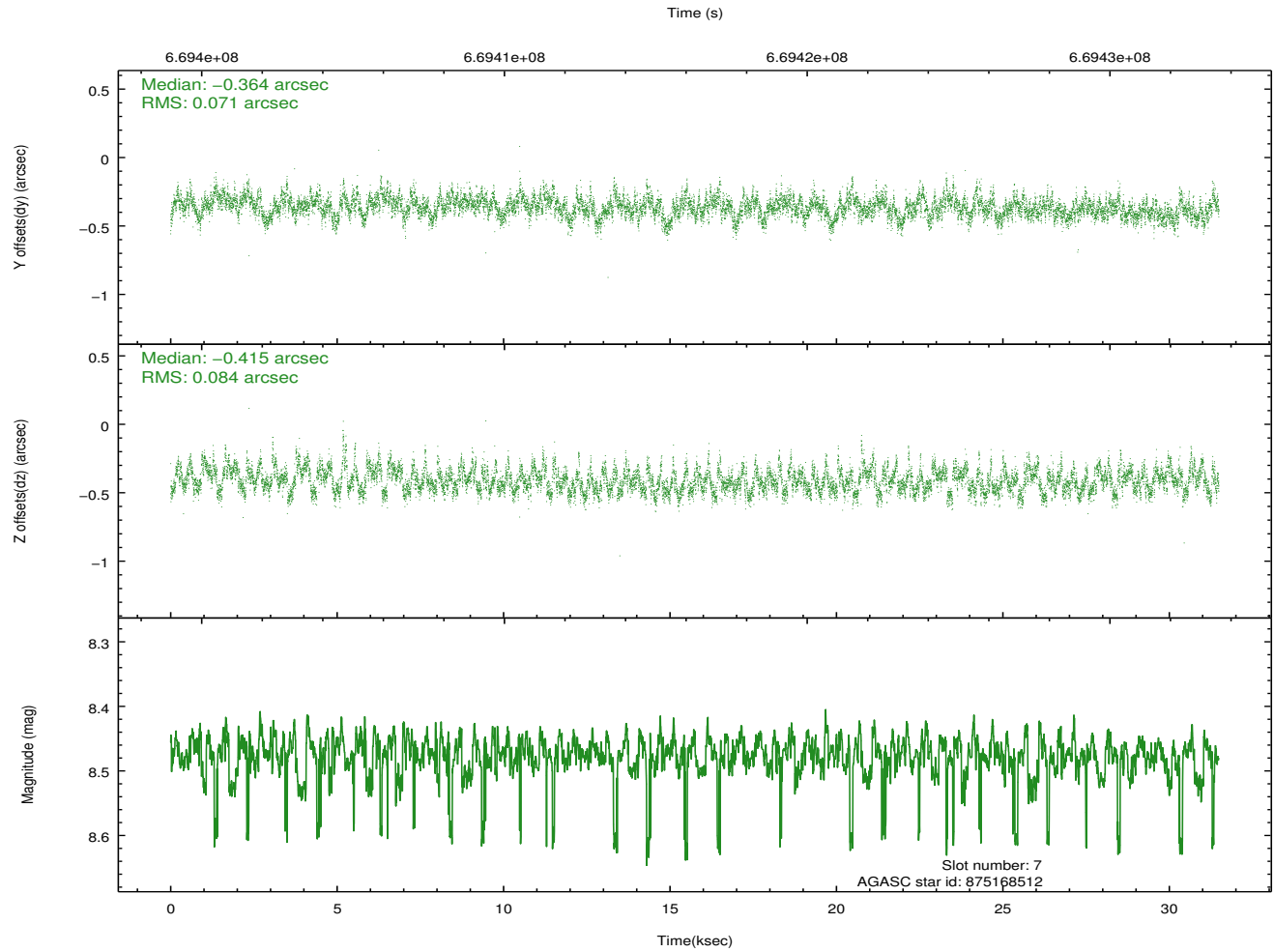
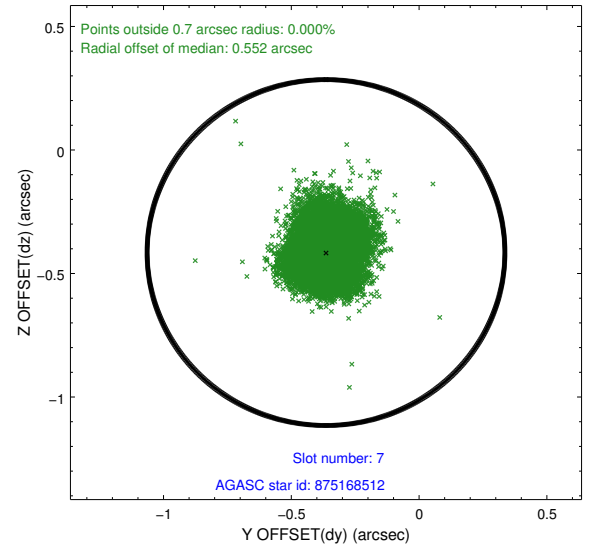
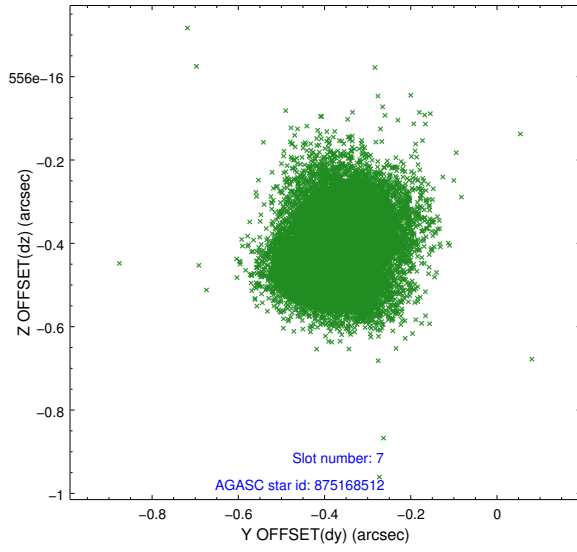
2.4.3 Slot 5



2.4.4 Slot 6

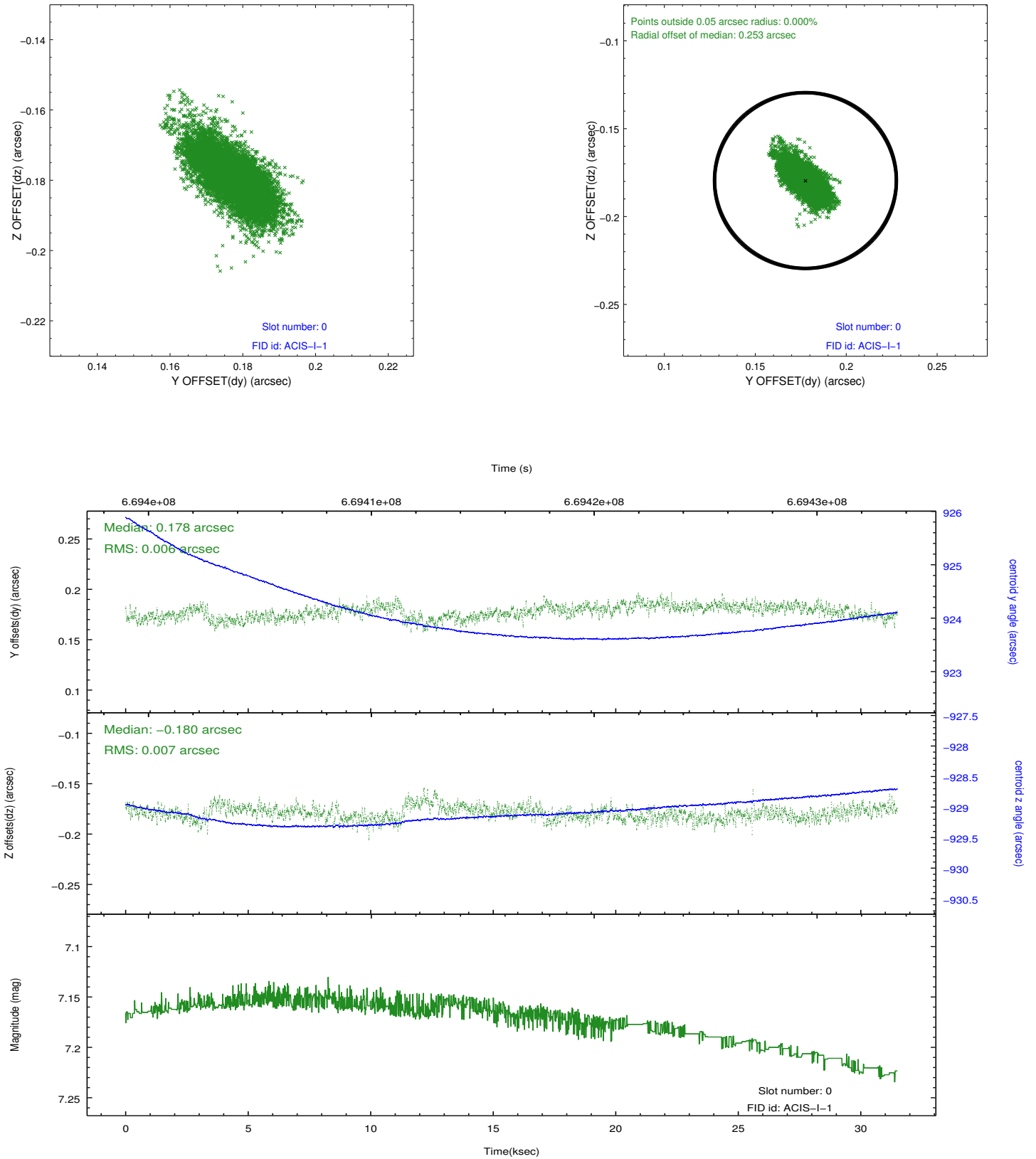


2.4.5 Slot 7

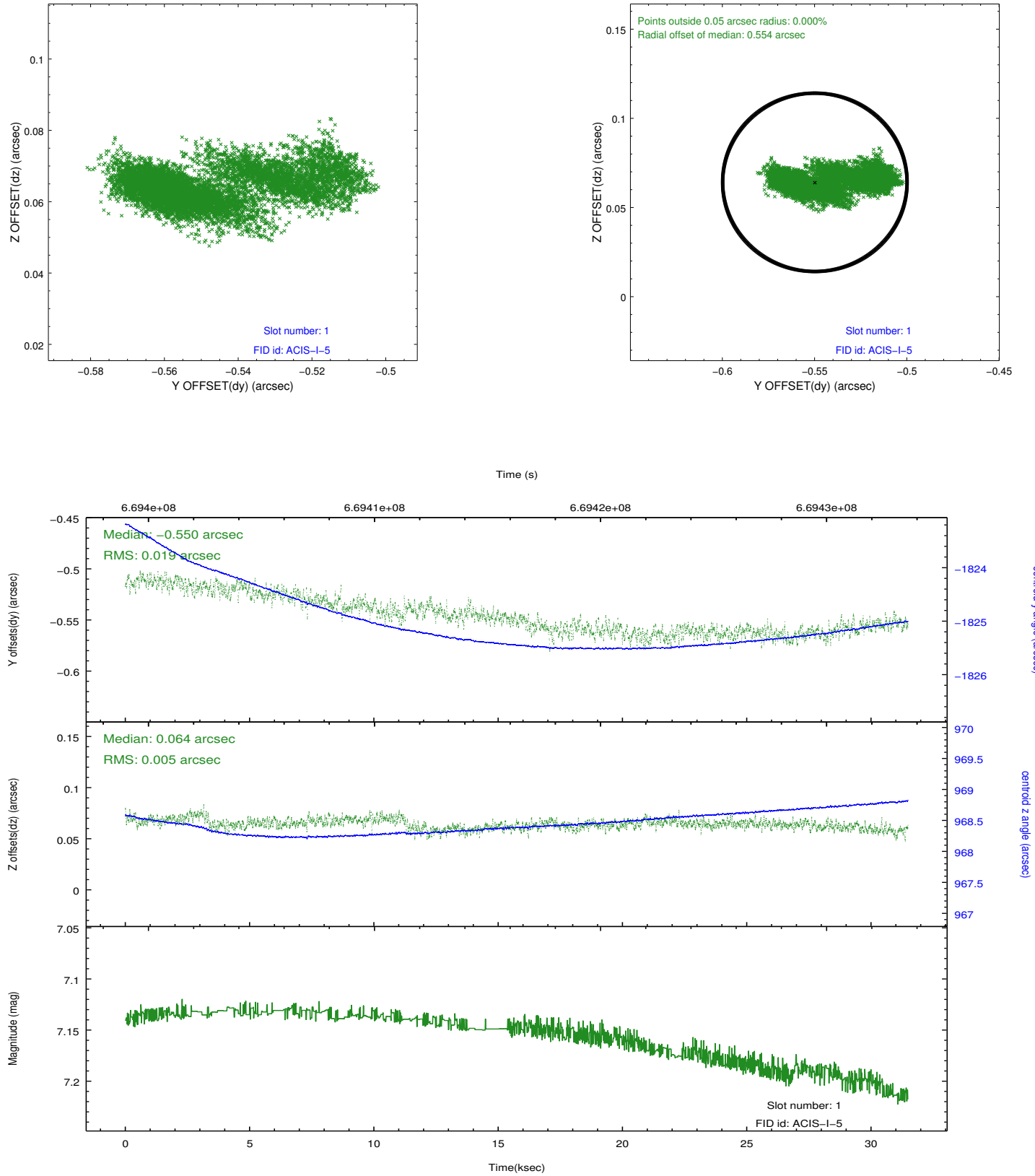


2.5 FID Slots

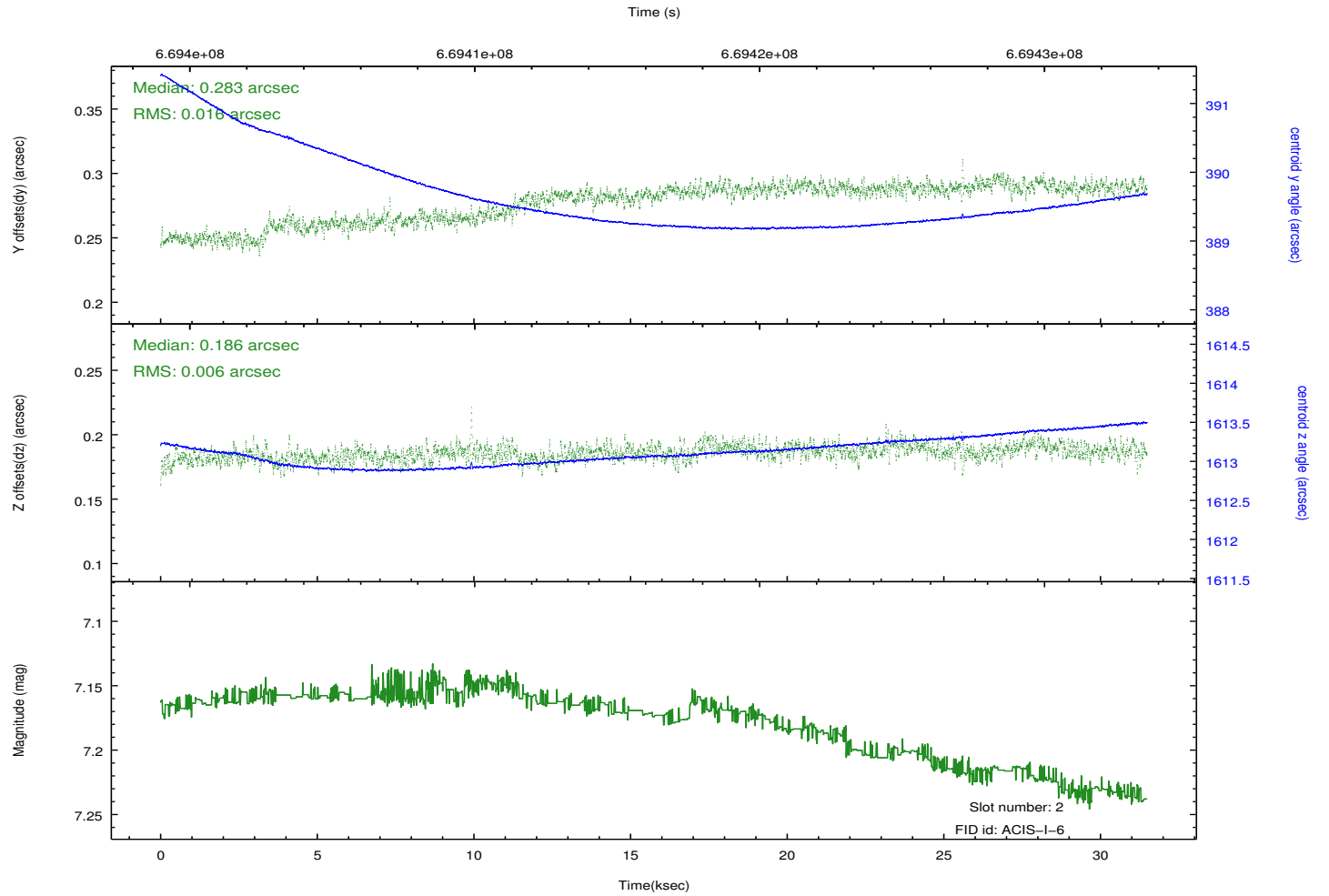
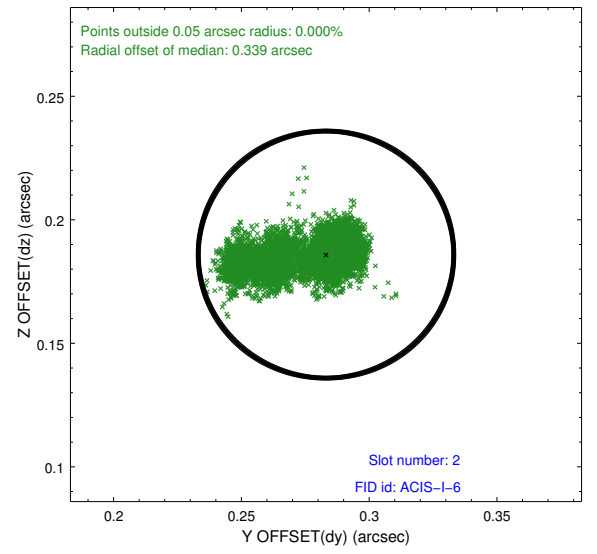
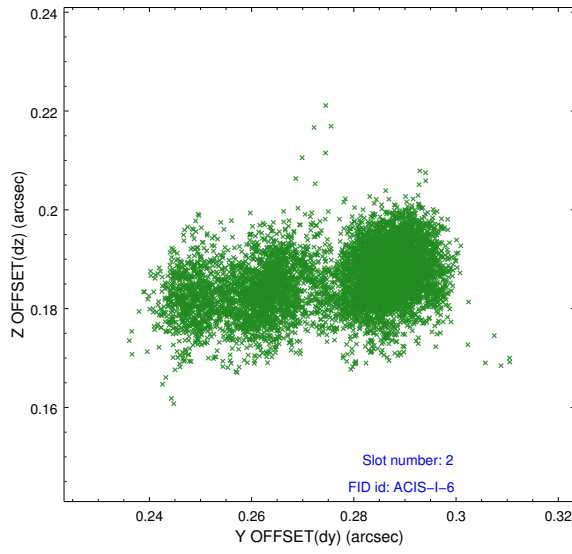
2.5.1 Slot 0



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)	2019.03.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.430818171263

A.2 Comments

Joint Proposal: HST