

V&V Reference Report

L2 ASCDS Version : 10.8.1

Observation 23169 - L2 Version 1
Chandra X-Ray Center

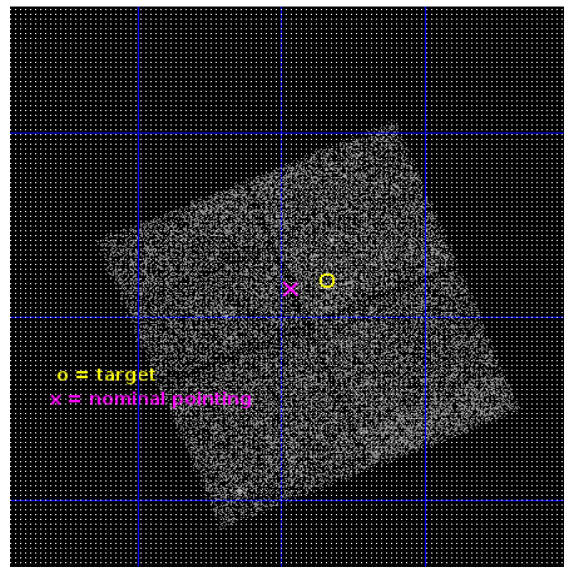
L2 Processing Date : Feb 23 2020

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1 Front

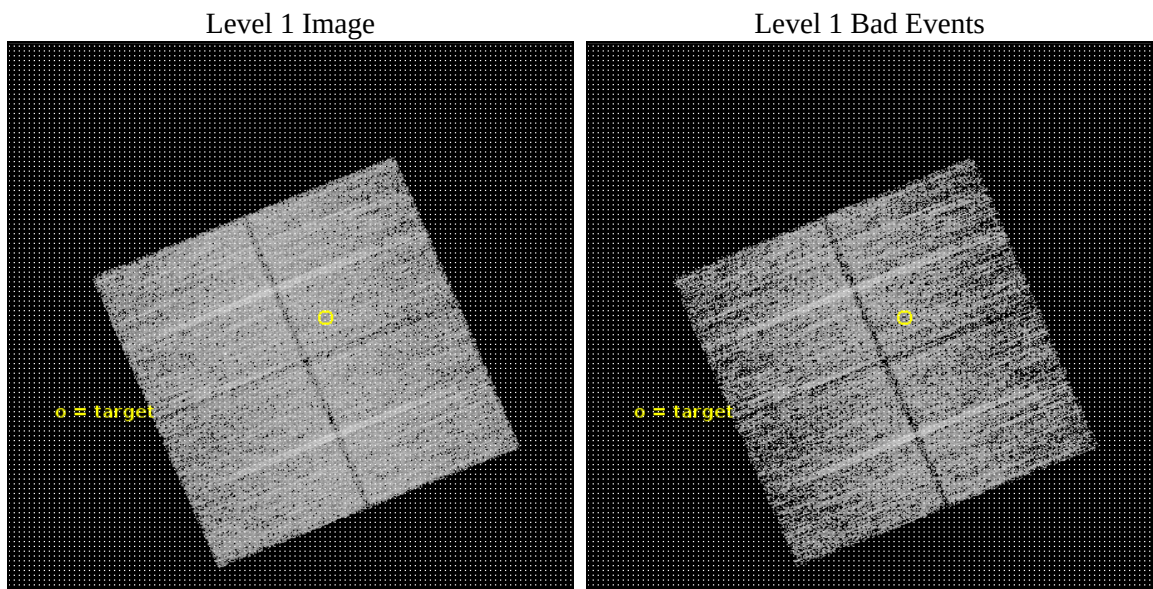
seq_num	801905	Sequence number
obs_id	23169	Observation id
title	An random sub-sample of lambda=25-80 redMaPPer clusters	Proposal t
observer	Ming Sun	Principal investigator
object	RMJ100750.4+003154.7	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	151.959793	Observer's specified target RA [deg]
dec_targ	0.531855	Observer's specified target Dec [deg]
ra_nom	151.99115936509	Nominal RA [deg]
dec_nom	0.52521839604214	Nominal Dec [deg]
roll_nom	337.42822100588	Nominal Roll [deg]
revision	1	Processing version of data
ontime	10074.959087372	Sum of GTIs [s]
livetime	9943.3223298183	Livetime [s]
ontime0	10078.100077629	Sum of GTIs [s]
ontime1	10068.677116513	Sum of GTIs [s]
ontime2	10078.100077629	Sum of GTIs [s]
ontime3	10074.959087372	Sum of GTIs [s]
l2events	30330	Number of level 2 events



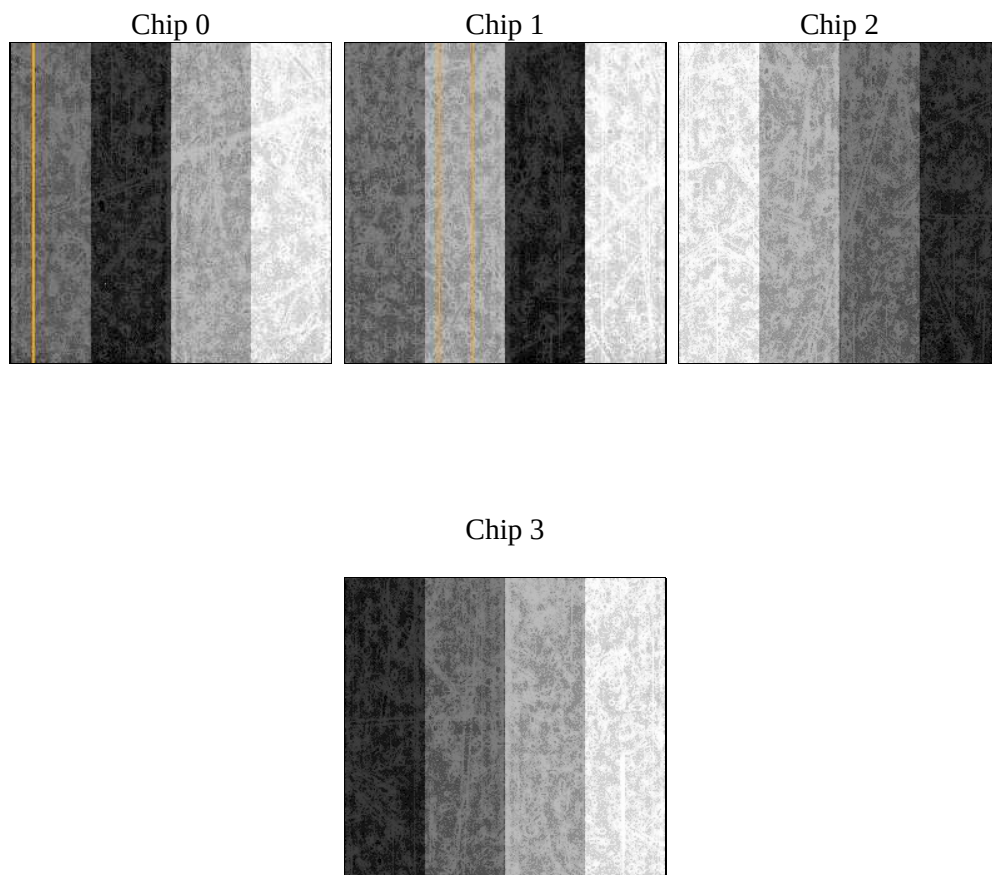
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.8.1	Processing system revision	ontime	10074.959087372	Sum of GTIs [s]
caldsver	4.8.4.2	 	ontime0	10078.100077629	Sum of GTIs [s]
date	2020-02-23T21:22:10	Date and time of file creation	ontime1	10068.677116513	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	10078.100077629	Sum of GTIs [s]
			ontime3	10074.959087372	Sum of GTIs [s]
			l1events	295353	Number of level 1 events

2.1.4 Events

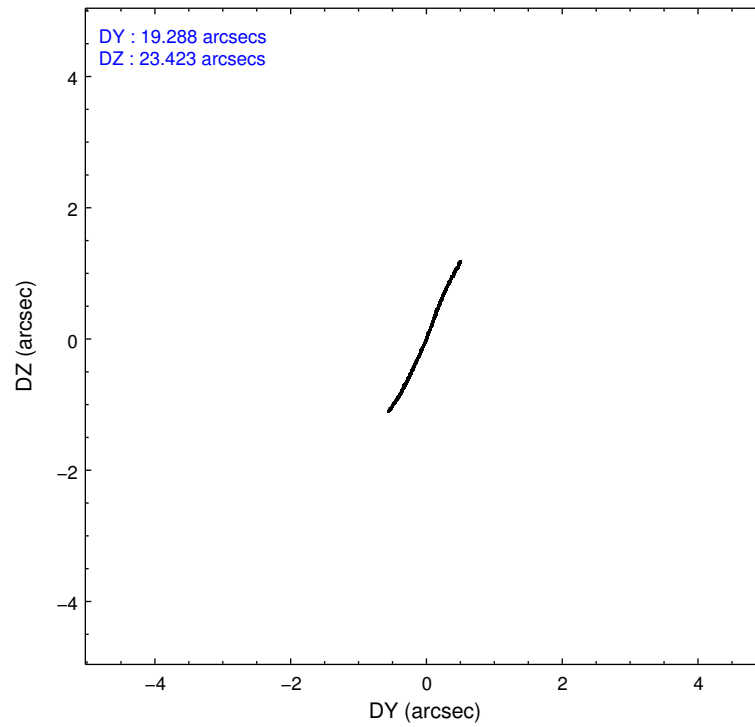
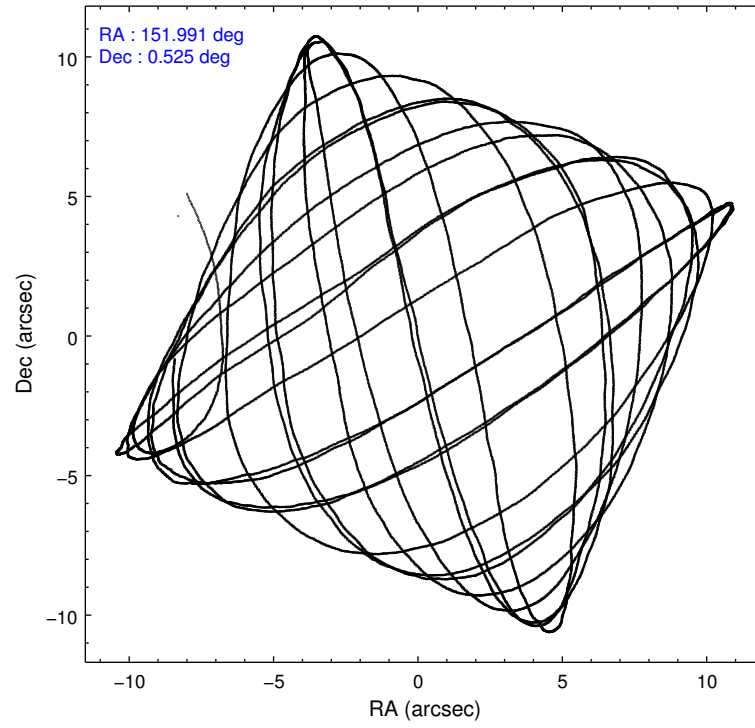
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	69605	73689	78261	73798
rejected events	60726	64056	69433	64944
rejected %	87%	86%	88%	88%

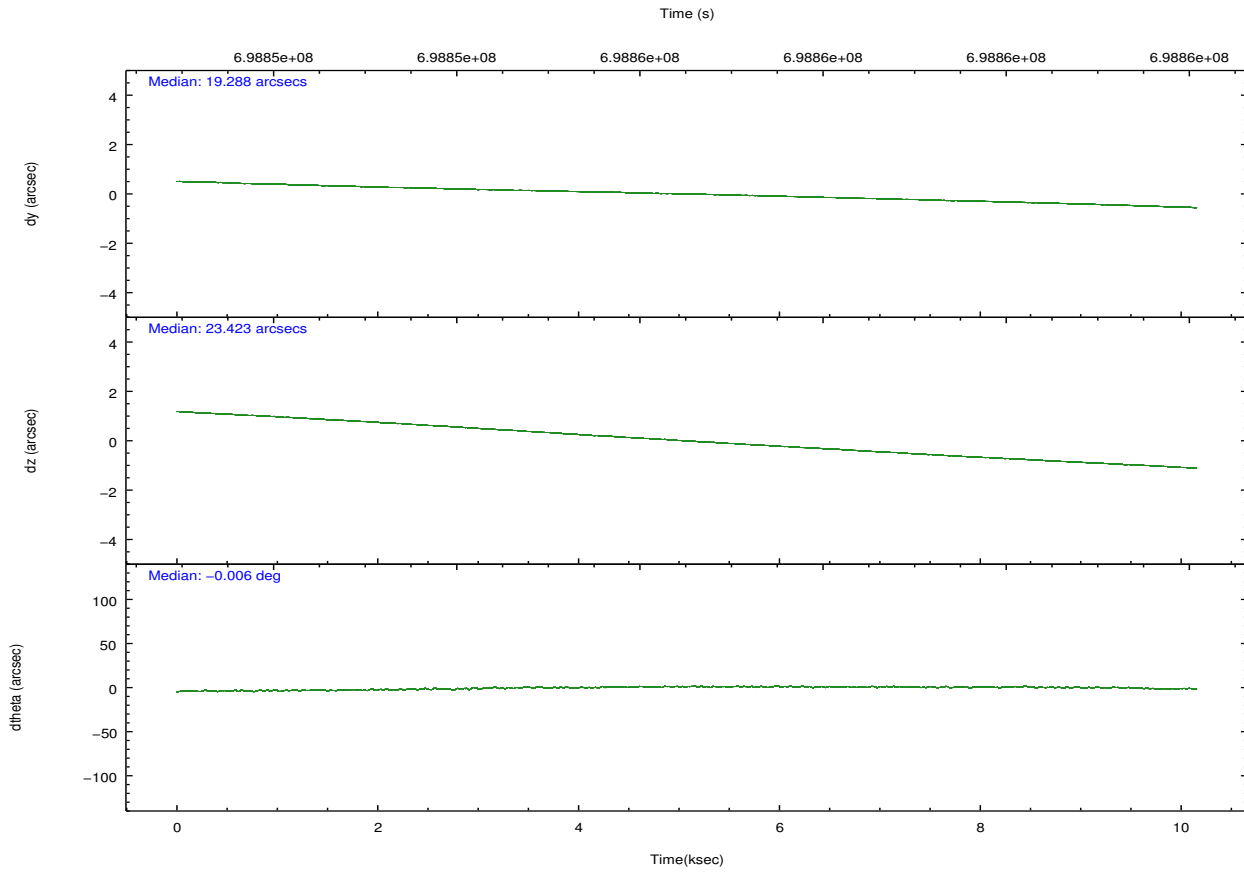
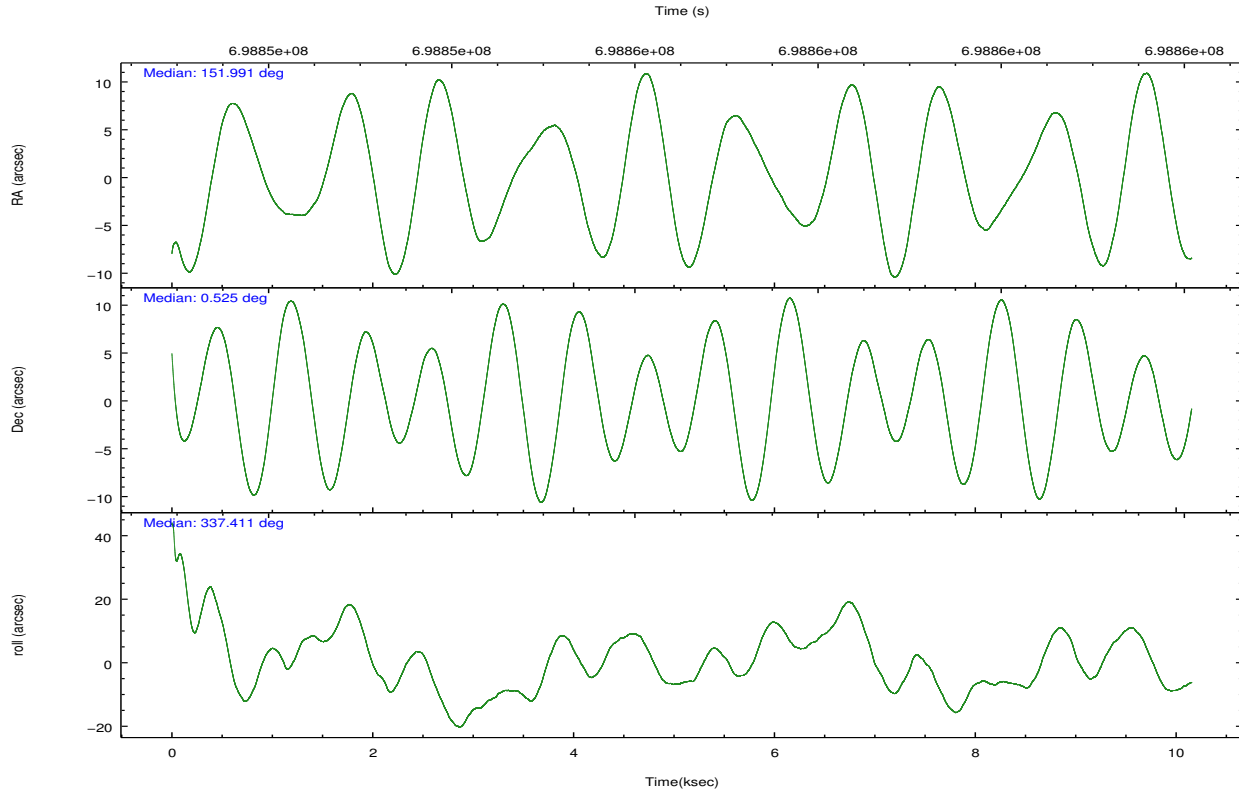
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3097	3269	3264	3449
	4%	4%	4%	4%
grade 1 events	48	52	47	42
	0%	0%	0%	0%
grade 2 events	2282	2508	2199	1889
	3%	3%	2%	2%
grade 3 events	846	899	836	867
	1%	1%	1%	1%
grade 4 events	809	847	853	906
	1%	1%	1%	1%
grade 5 events	3441	3527	3209	3759
	4%	4%	4%	5%
grade 6 events	1849	2117	1683	1744
	2%	2%	2%	2%
grade 7 events	57233	60470	66170	61142
	82%	82%	84%	82%

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	151.963838	151.9911593650896	Subarray requested	NONE	NONE
[deg] Pointing Dec	0.521570	0.5252183960421374	Alternating exposures requested	N	N
[deg] Pointing Roll	337.219757	337.4282210058798	[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	-229.792463	-229.7883040401715			
[mm] SIM translation stage offset	-3.8	-3.804148962758148			
[s] Observation start time (MET)	698851586.184000	698850178.94797			
Observation start date	2020-02-23T13:25:17	2020-02-23T13:02:58			
[s] Observation end time (MET)	698861586.184000	698862738.27373			
Observation end date	2020-02-23T16:11:57	2020-02-23T16:32:18			
Read mode	TIMED	TIMED			

2.3 Aspect



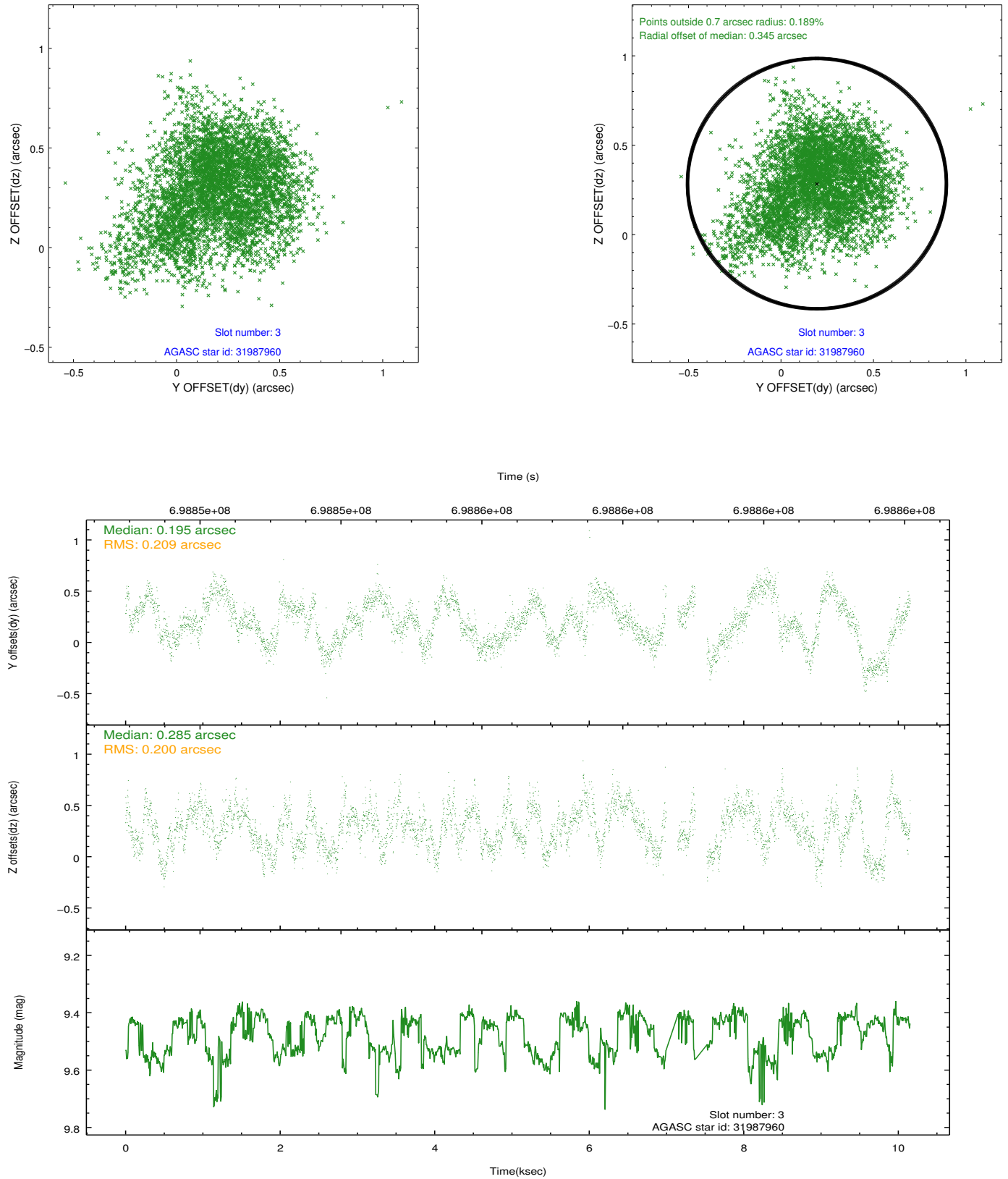


Slot Statistics

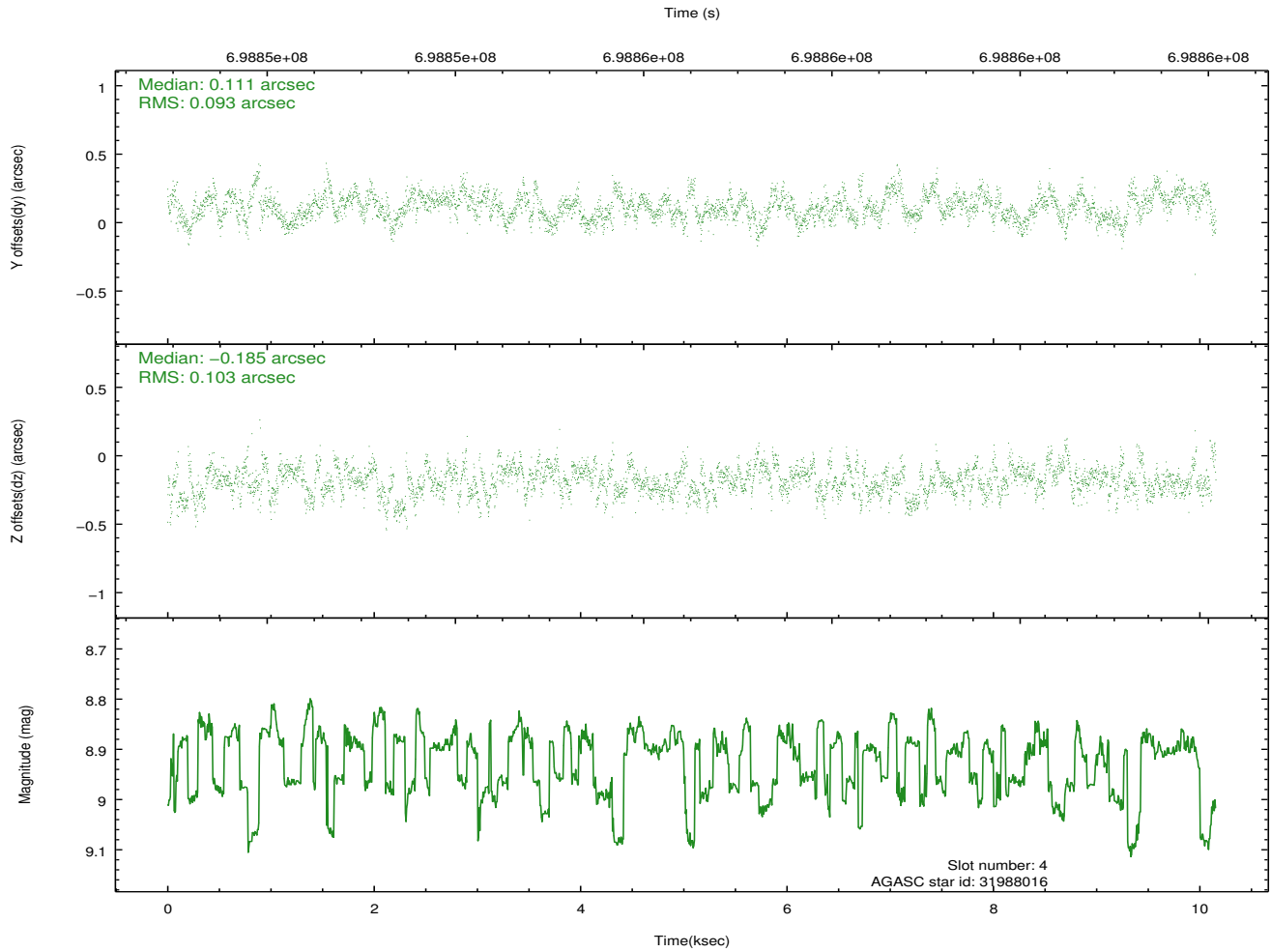
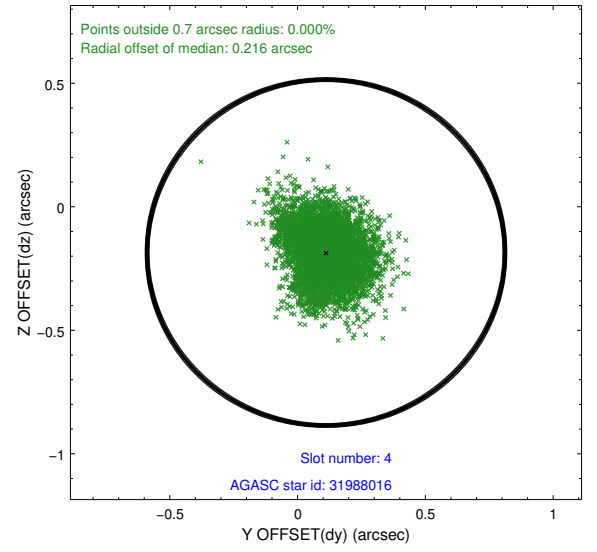
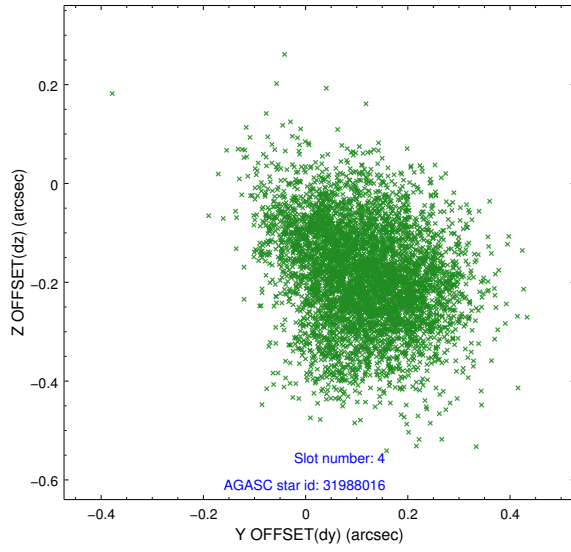
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.13	2475	1.000	0.143	-0.102	0.035	0.053	0.000000	0.000000	920.20	-925
1	FID		ACIS-I-5	7.11	2477	1.000	-0.558	0.039	0.011	0.020	0.000000	0.000000	-1828.45	971
2	FID		ACIS-I-6	7.14	2477	1.000	0.325	0.133	0.030	0.041	0.000000	0.000000	385.18	1617
3	GUIDE	used	31987960	9.47	4752	1.000	0.195	0.285	0.313	0.489	151.808940	0.261799	-150.42	-1077
4	GUIDE	used	31988016	8.91	4947	1.000	0.111	-0.185	0.148	0.236	151.967682	0.697978	-231.72	590
5	GUIDE	used	31990568	8.51	4950	1.000	-0.207	-0.021	0.151	0.259	151.776398	0.937403	-1201.09	1119
6	GUIDE	used	31991984	9.46	4908	1.000	0.066	0.635	0.351	0.591	151.500488	0.445613	-1431.24	-897
7	GUIDE	used	31995344	6.94	4954	1.000	-0.151	-0.735	0.166	0.260	152.171930	1.160770	-200.31	2411

2.4 Star Slots

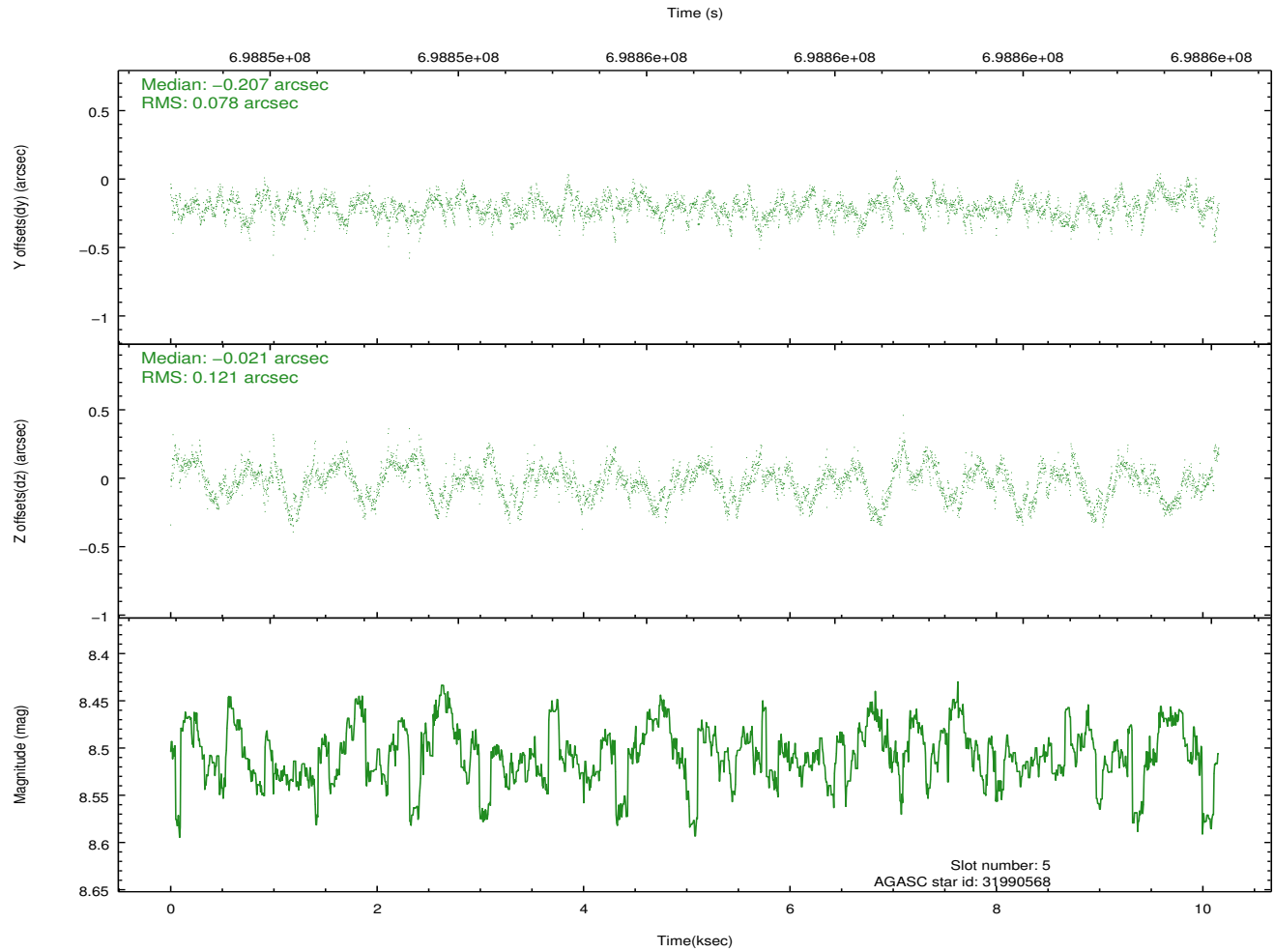
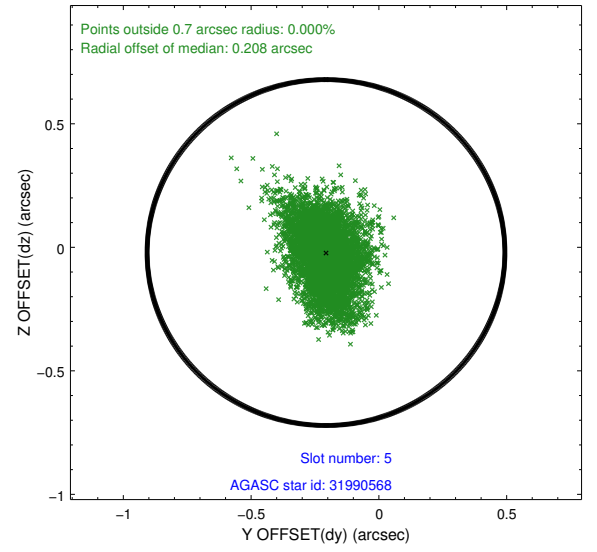
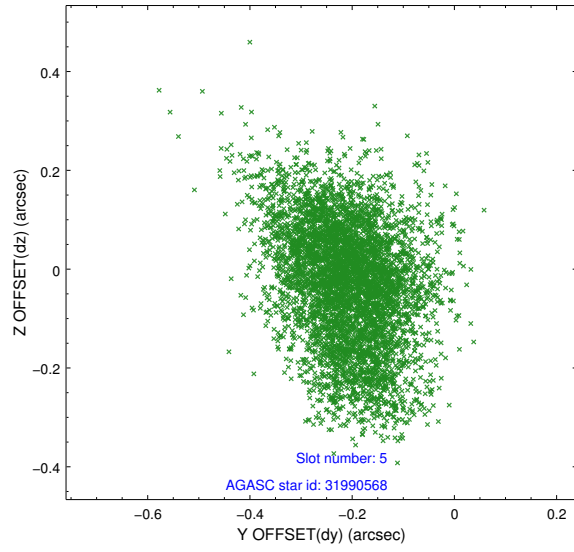
2.4.1 Slot 3



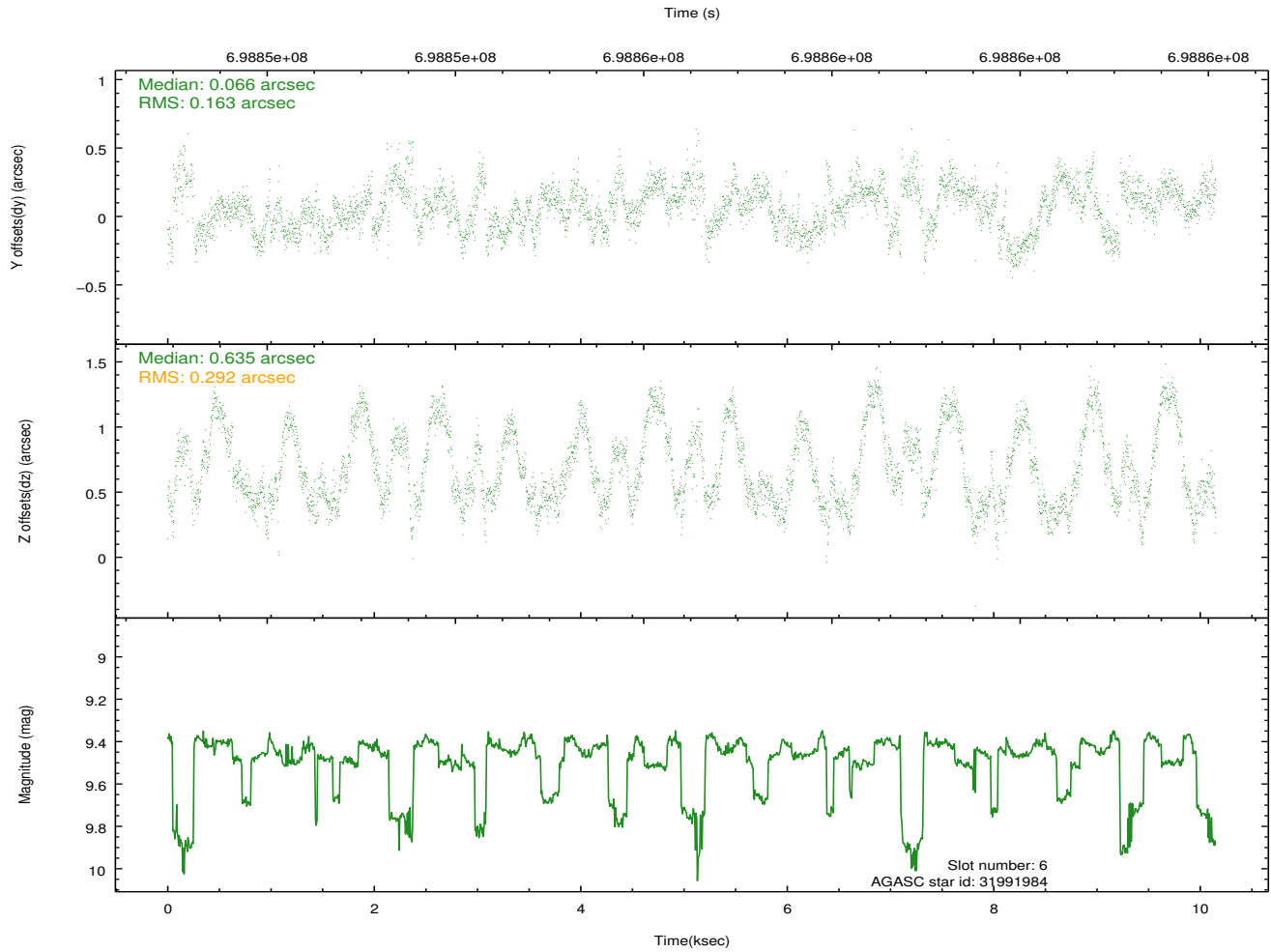
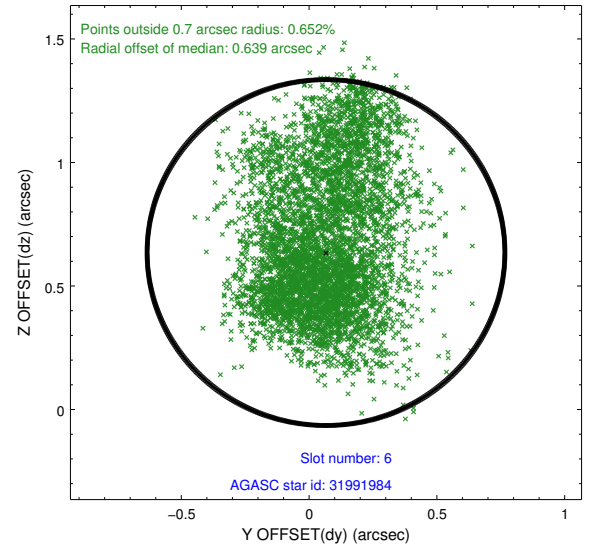
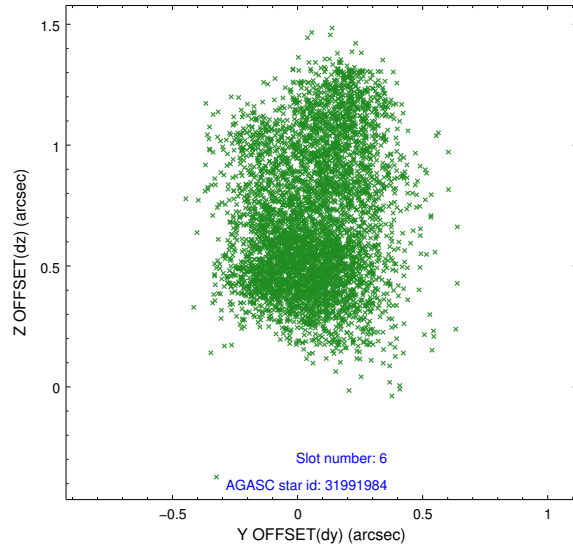
2.4.2 Slot 4



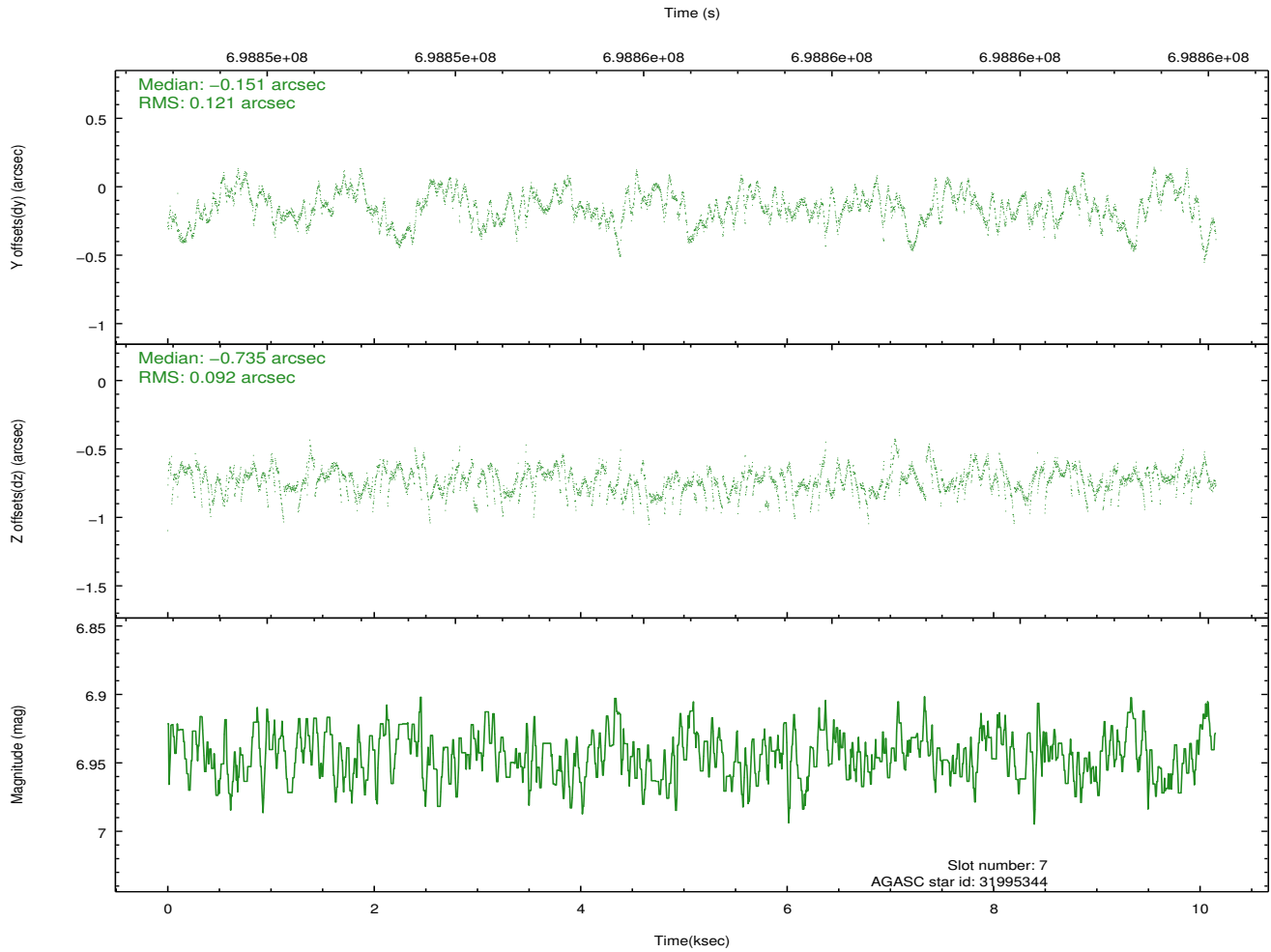
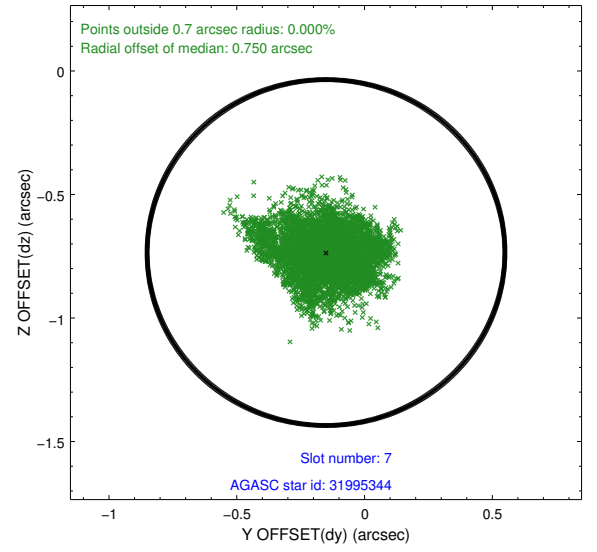
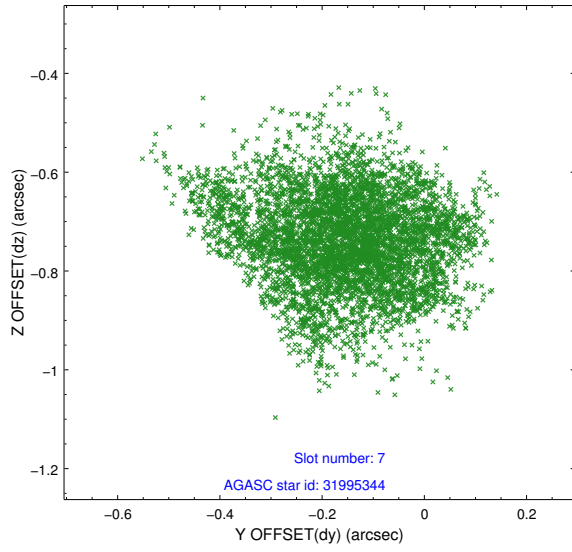
2.4.3 Slot 5



2.4.4 Slot 6

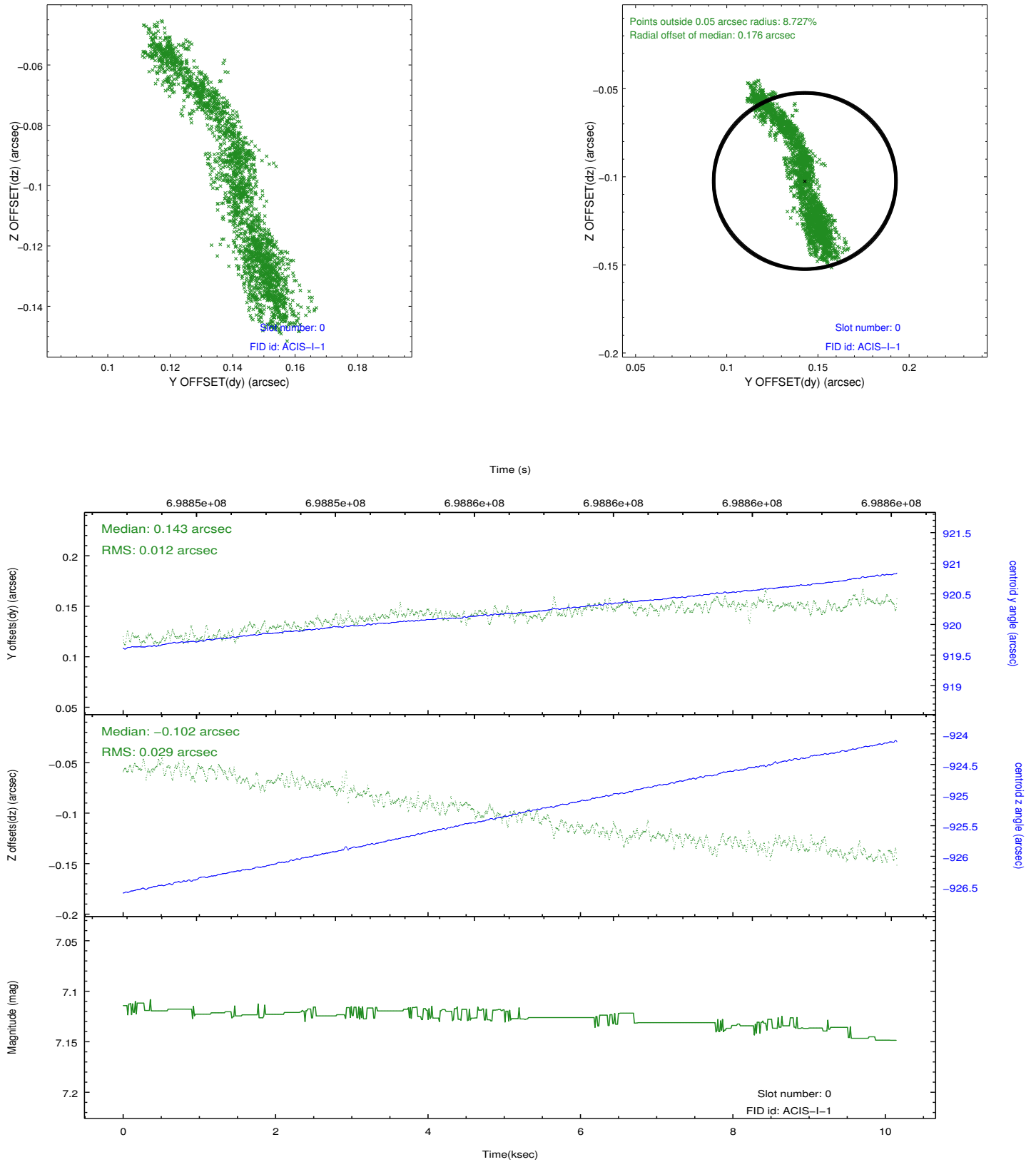


2.4.5 Slot 7

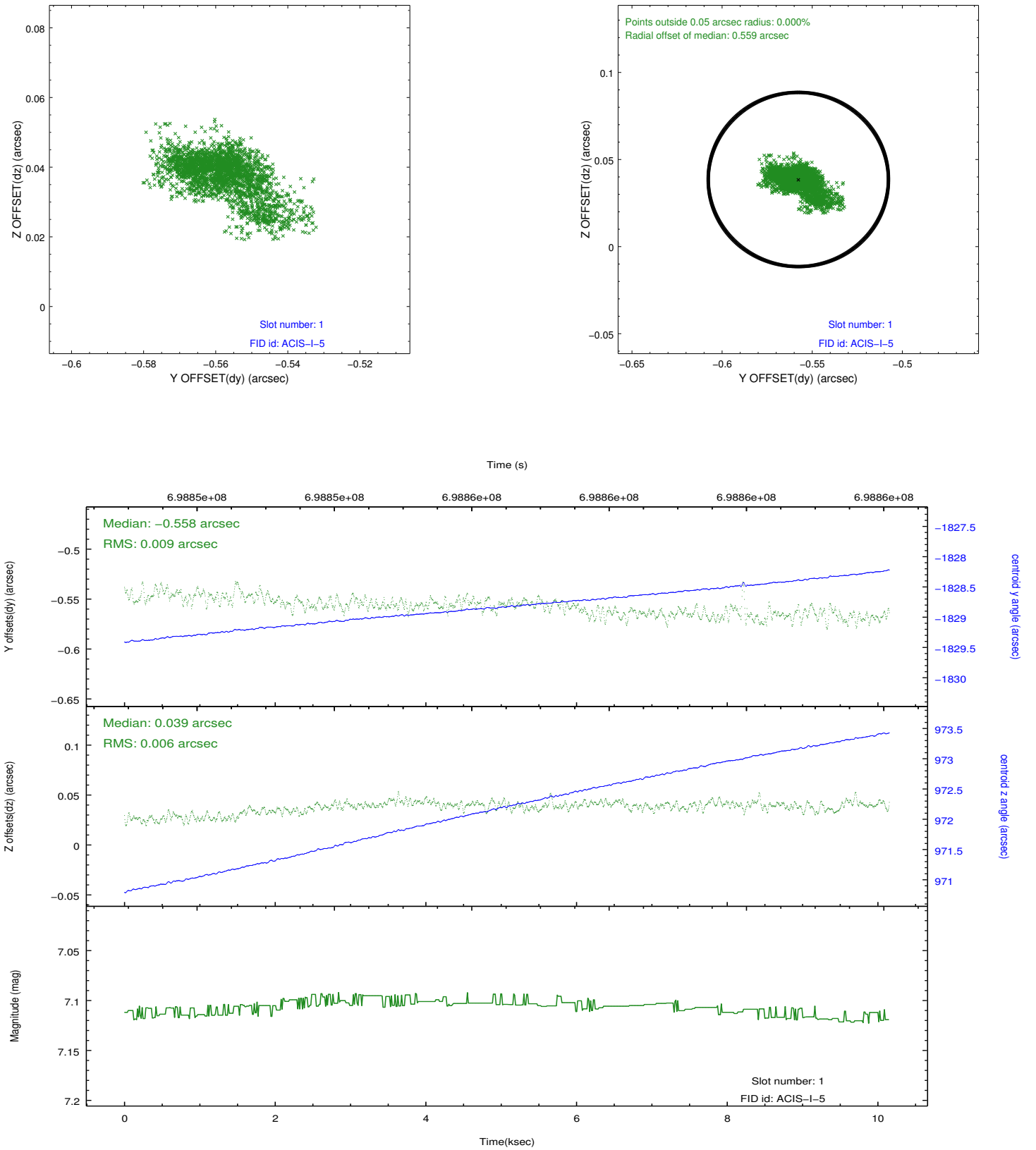


2.5 FID Slots

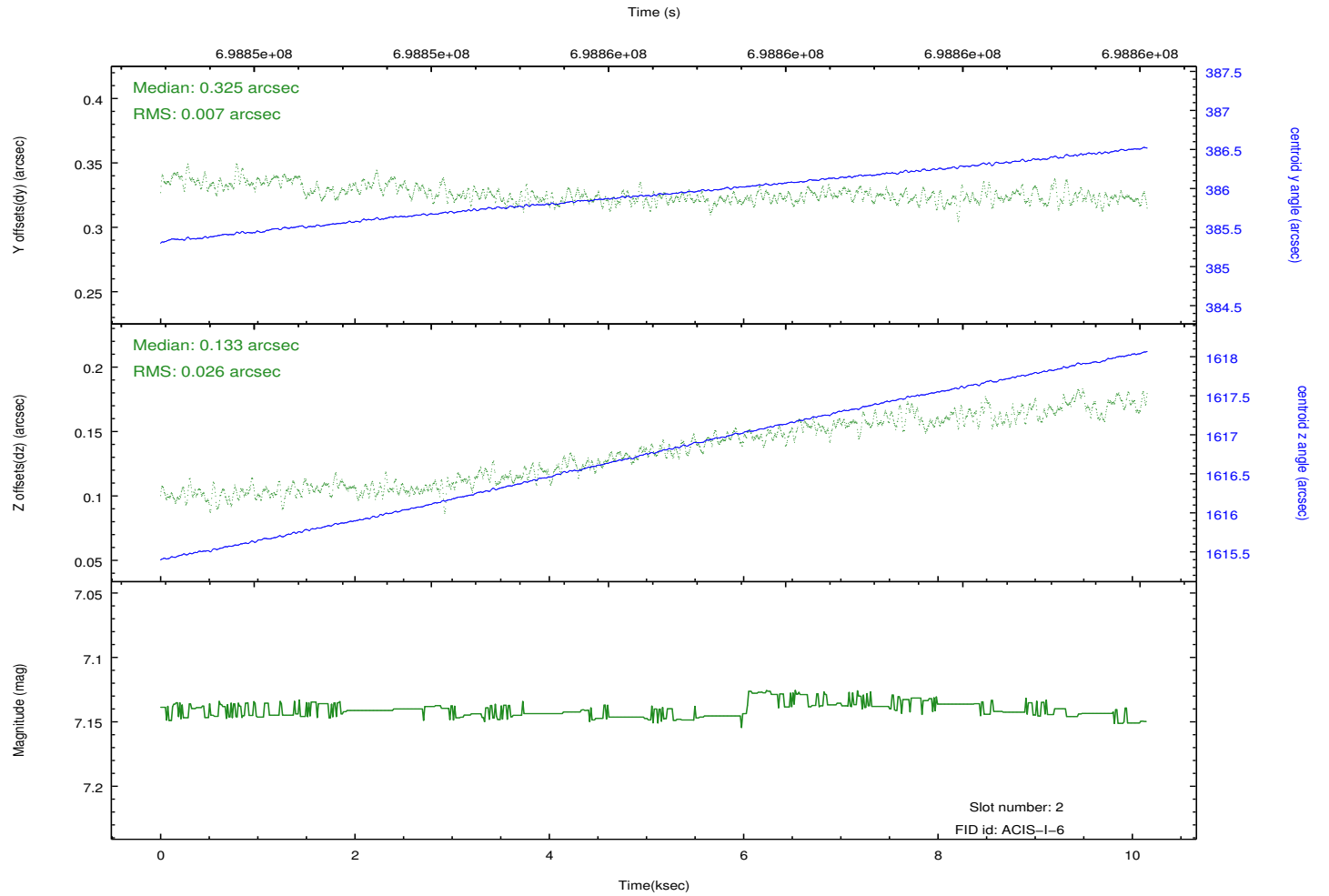
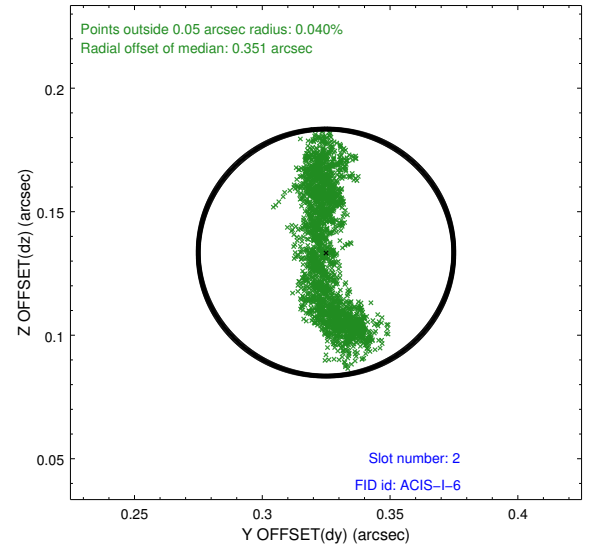
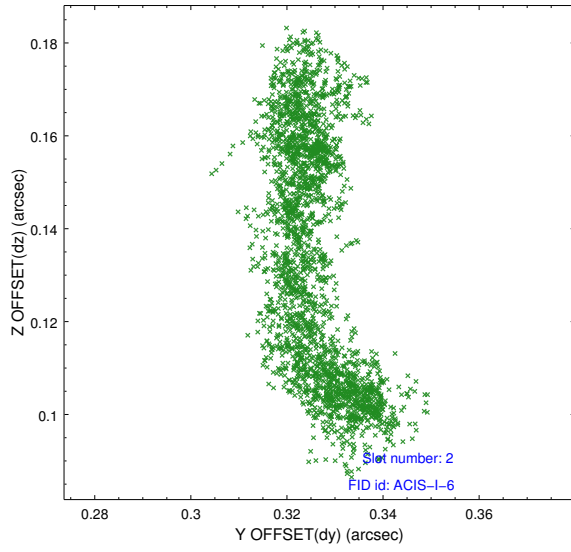
2.5.1 Slot 0



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)	2020.02.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.074959087372

A.2 Comments