

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 17591 - L2 Version 1
Chandra X-Ray Center

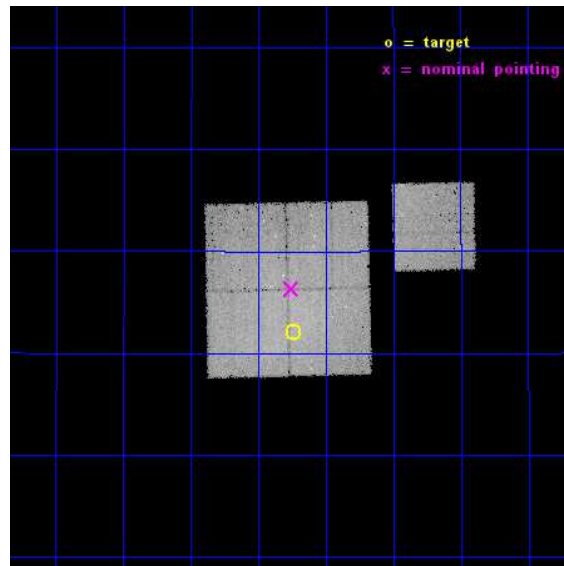
L2 Processing Date : Feb 4 2015

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1 Front

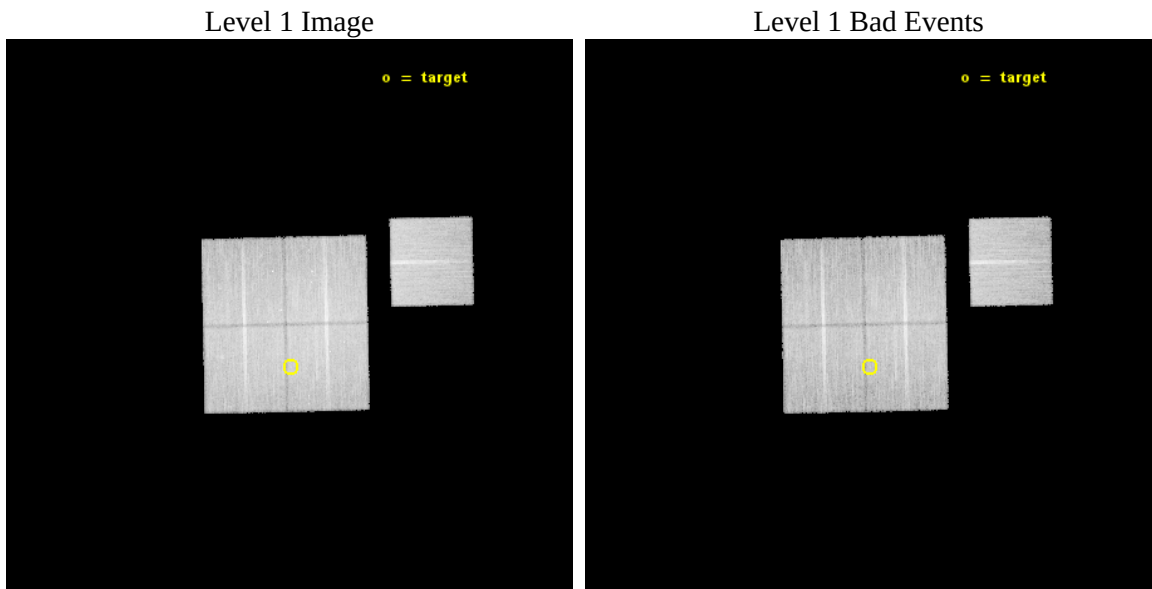
seq_num	801481	Sequence number
obs_id	17591	Observation id
title	Probing the Physics of the ICM in the Dynamically Young Cluster A1367	Proposal title
observer	Dr. William Forman	Principal investigator
object	Abell 1367	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	176.185	Observer's specified target RA [deg]
dec_targ	19.701111	Observer's specified target Dec [deg]
ra_nom	176.18877088769	Nominal RA [deg]
dec_nom	19.772169414359	Nominal Dec [deg]
roll_nom	88.707416546251	Nominal Roll [deg]
revision	1	Processing version of data
ontime	35383.40027225	Sum of GTIs [s]
livetime	34921.090098813	Livetime [s]
ontime0	35380.259272218	Sum of GTIs [s]
ontime1	35380.25919199	Sum of GTIs [s]
ontime2	35377.11817193	Sum of GTIs [s]
ontime3	35383.40027225	Sum of GTIs [s]
ontime6	35383.399583459	Sum of GTIs [s]
l2events	167305	Number of level 2 events



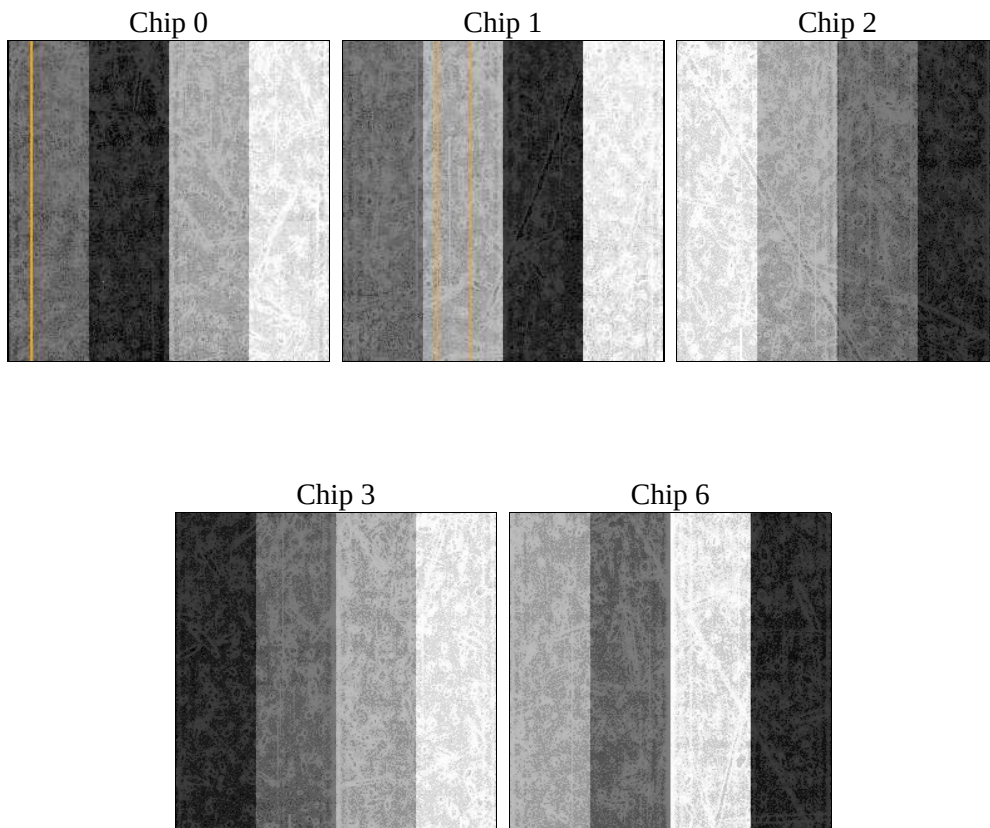
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	35300.000000	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	35383.40027225	Sum of GTIs [s]
caldsver	4.6.6	 	ontime0	35380.259272218	Sum of GTIs [s]
date	2015-02-04T05:18:46	Date and time of file creation	ontime1	35380.25919199	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	35377.11817193	Sum of GTIs [s]
			ontime3	35383.40027225	Sum of GTIs [s]
			ontime6	35383.399583459	Sum of GTIs [s]
			l1events	886286	Number of level 1 events

2.1.4 Events

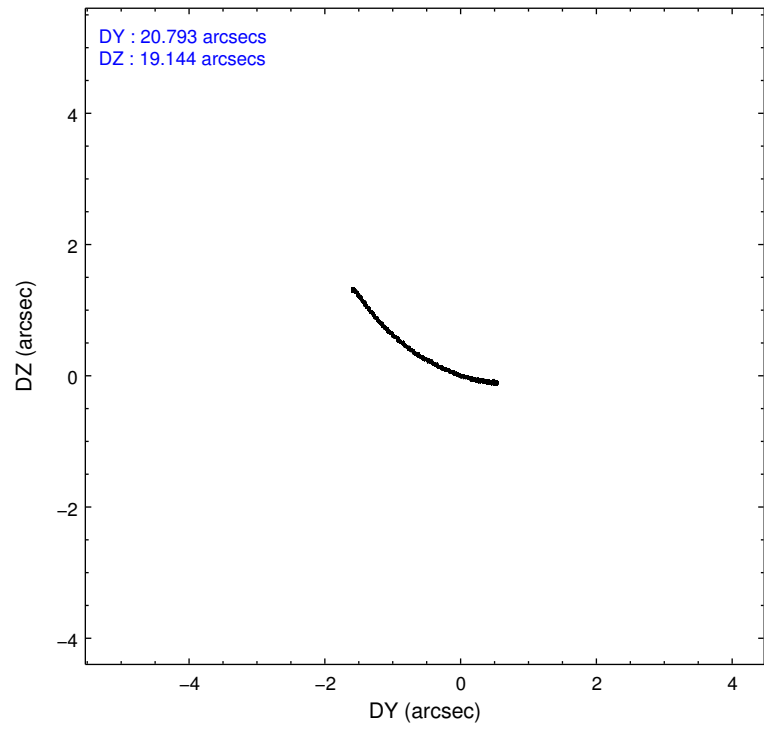
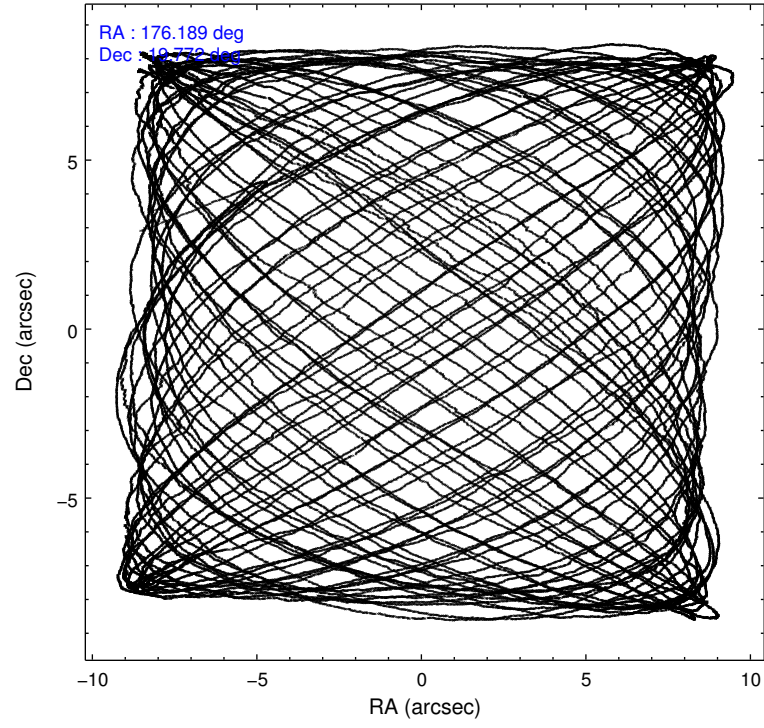
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	162513	177901	187079	183950	174843
rejected events	128843	131822	149633	141967	146576
rejected %	79%	74%	79%	77%	83%

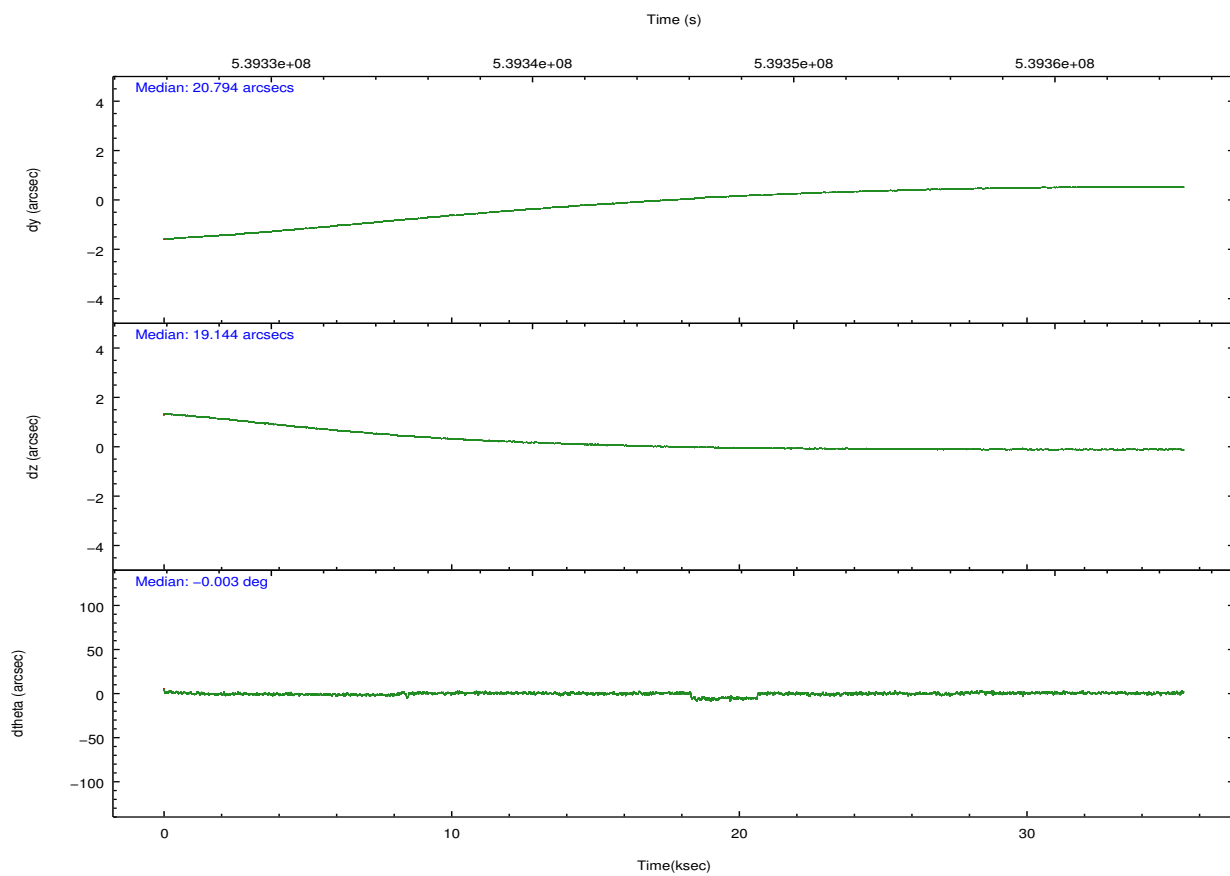
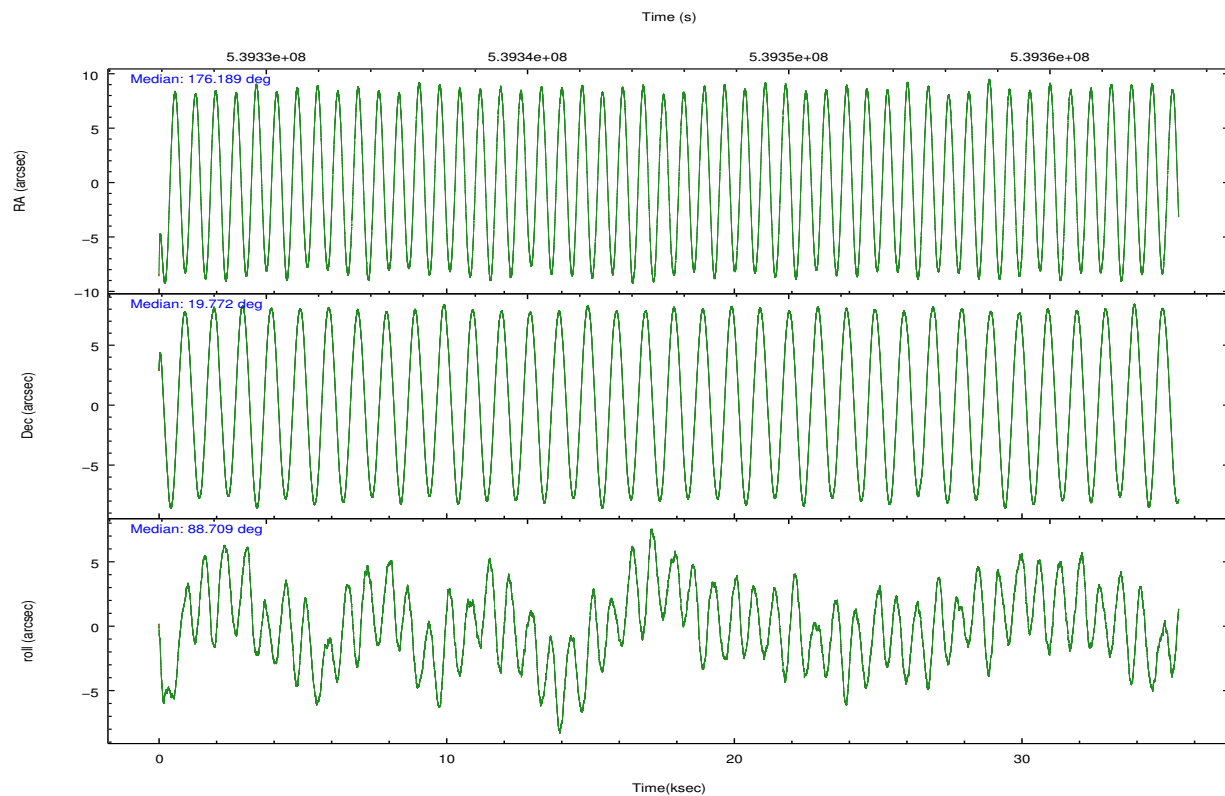
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	18271	27327	21497	25353	13469
	11%	15%	11%	13%	7%
grade 1 events	121	163	152	137	88
	0%	0%	0%	0%	0%
grade 2 events	6283	7796	6642	6604	5460
	3%	4%	3%	3%	3%
grade 3 events	2415	2762	2495	2672	2214
	1%	1%	1%	1%	1%
grade 4 events	2320	2818	2467	2782	2227
	1%	1%	1%	1%	1%
grade 5 events	7979	8299	7653	8997	8537
	4%	4%	4%	4%	4%
grade 6 events	4383	5377	4348	4575	4899
	2%	3%	2%	2%	2%
grade 7 events	120741	123359	141825	132830	137949
	74%	69%	75%	72%	78%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	176.202958	176.1887708876882	CCD I2 on	Y	Y
[deg] Pointing Dec	19.748011	19.77216941435869	CCD I3 on	Y	Y
[deg] Pointing Roll	88.493931	88.70741654625118	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	-234.592463	-234.5931605814527	CCD S3 on	N	N
[mm] SIM translation stage offset	1	1.000707578522992	CCD S4 on	N	N
[s] Observation start time (MET)	539327827.184000	539326495.02463	CCD S5 on	N	N
Observation start date	2015-02-03T05:16:00	2015-02-03T04:54:55	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	539363127.184000	539363778.88921	On-chip summing requested	N	N
Observation end date	2015-02-03T15:04:20	2015-02-03T15:16:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



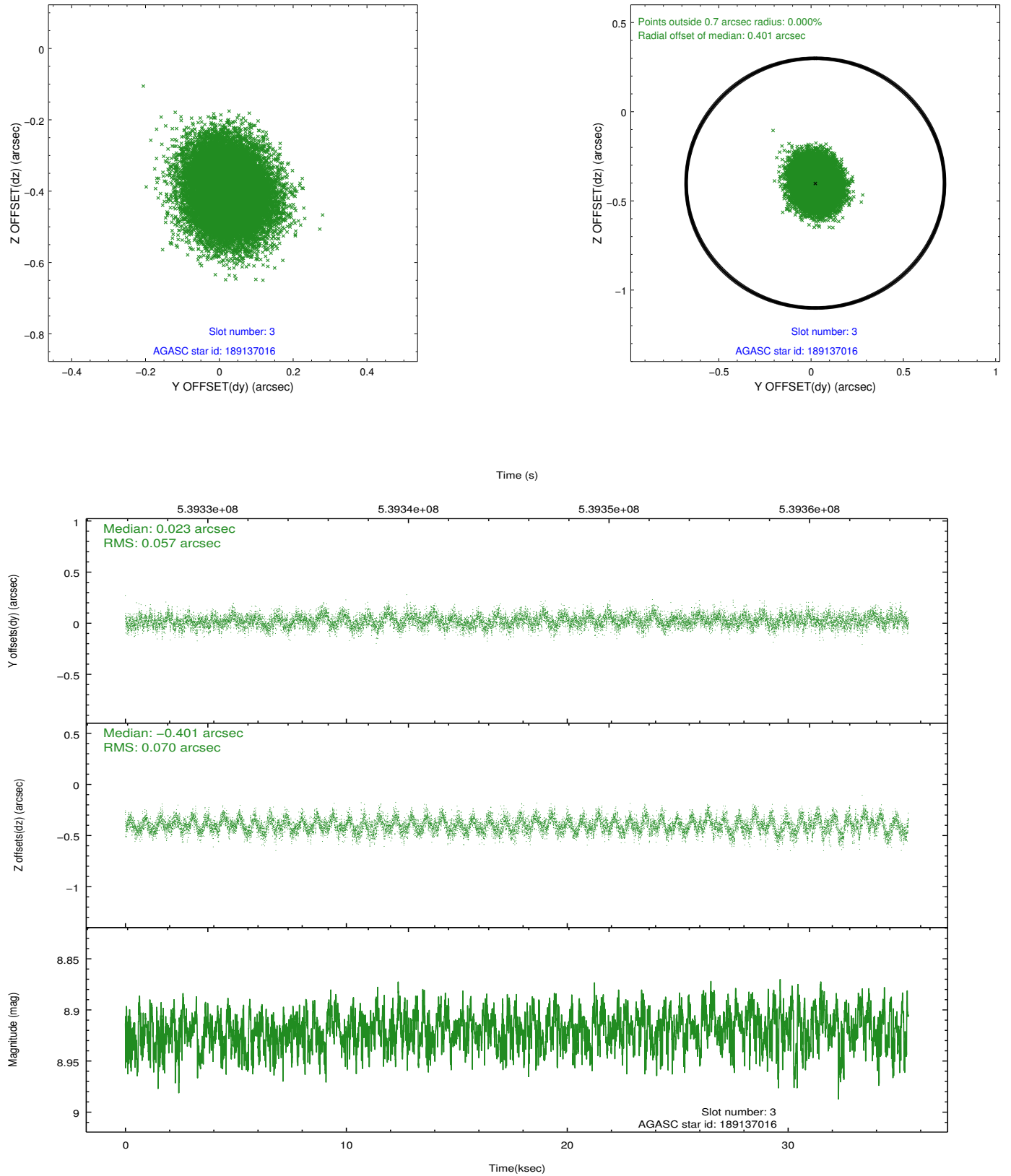


Slot Statistics

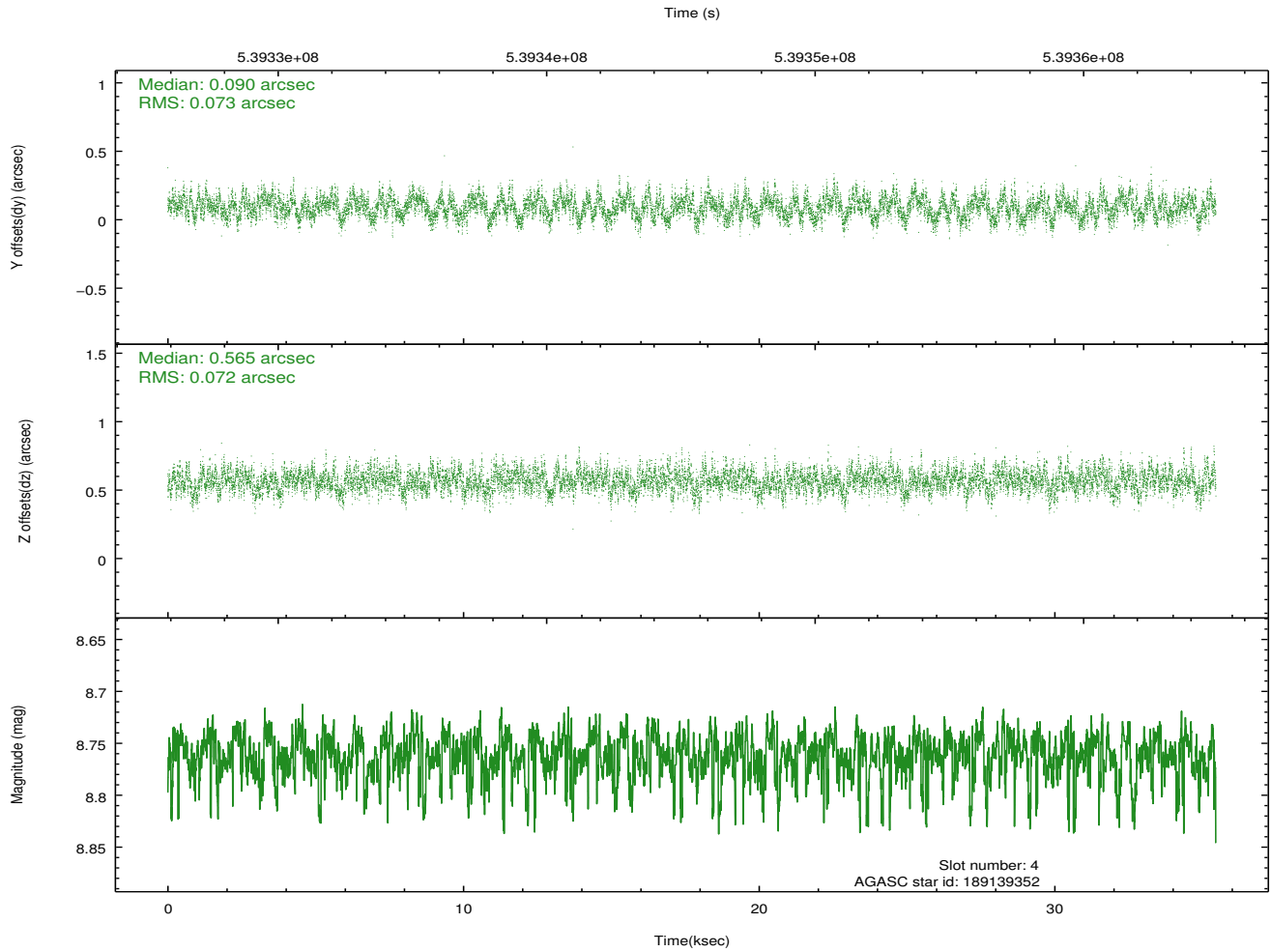
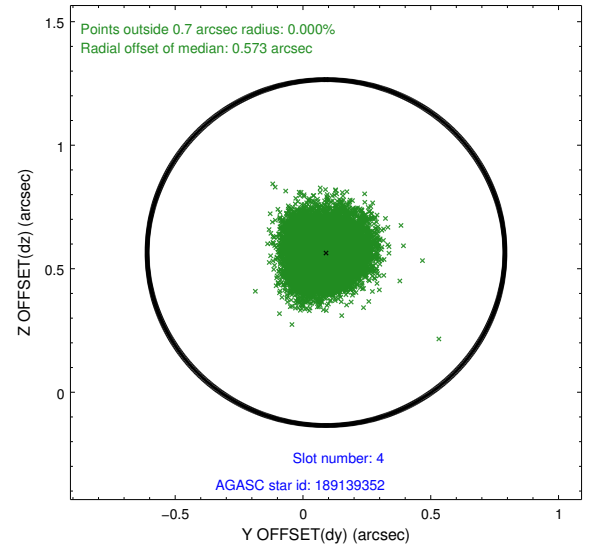
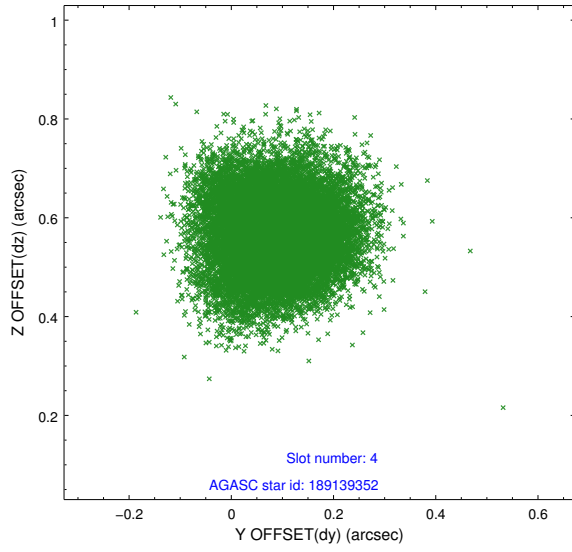
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.12	8647	-0.088	0.150	0.022	0.039	0.000000	0.000000	918.66	-822.24
1	FID		ACIS-I-2	7.02	8647	-0.201	-0.177	0.015	0.023	0.000000	0.000000	-775.47	-829.20
2	FID		ACIS-I-4	7.06	8646	0.191	0.100	0.015	0.028	0.000000	0.000000	2138.82	1077.41
3	GUIDE	used	189137016	8.92	17276	0.023	-0.401	0.097	0.157	176.017714	19.173647	-2082.75	575.27
4	GUIDE	used	189139352	8.76	17285	0.090	0.565	0.110	0.176	176.255936	19.500124	-886.95	-202.29
5	GUIDE	used	189140584	7.42	17293	-0.269	0.027	0.122	0.181	176.337611	19.889196	519.67	-442.24
6	GUIDE	used	189147640	7.62	17295	-0.201	-0.282	0.078	0.125	176.540349	20.319236	2087.02	-1084.72
7	GUIDE	used	189152088	8.49	17288	0.350	0.094	0.111	0.197	176.796455	19.306289	-1532.28	-2056.72

2.4 Star Slots

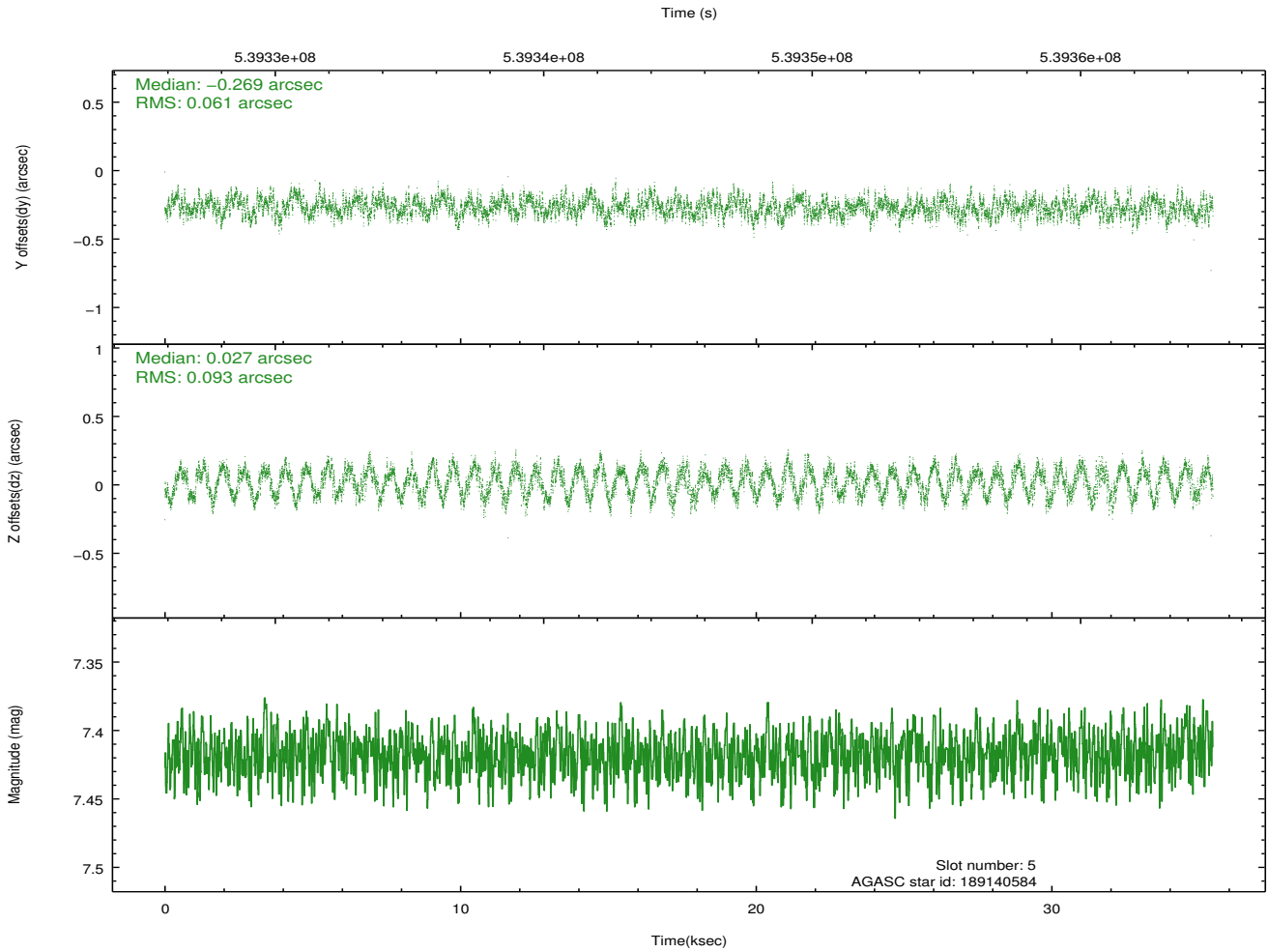
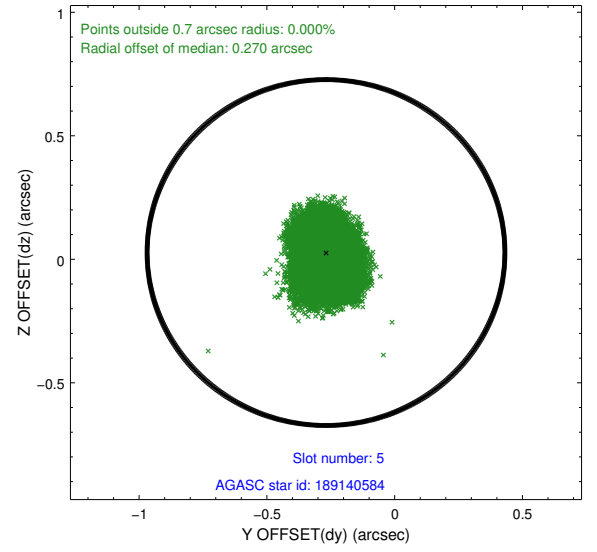
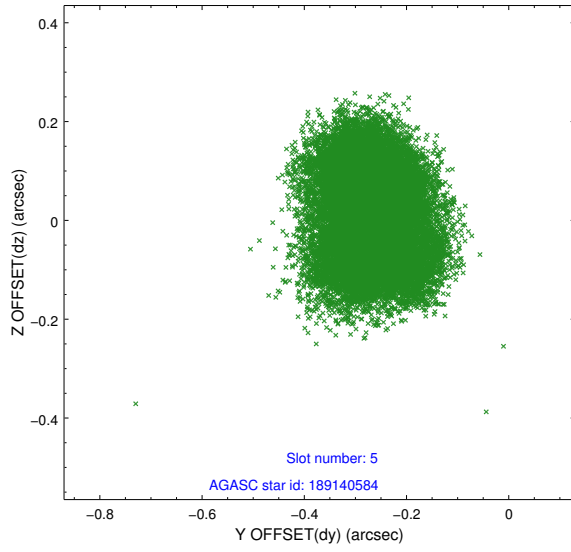
2.4.1 Slot 3



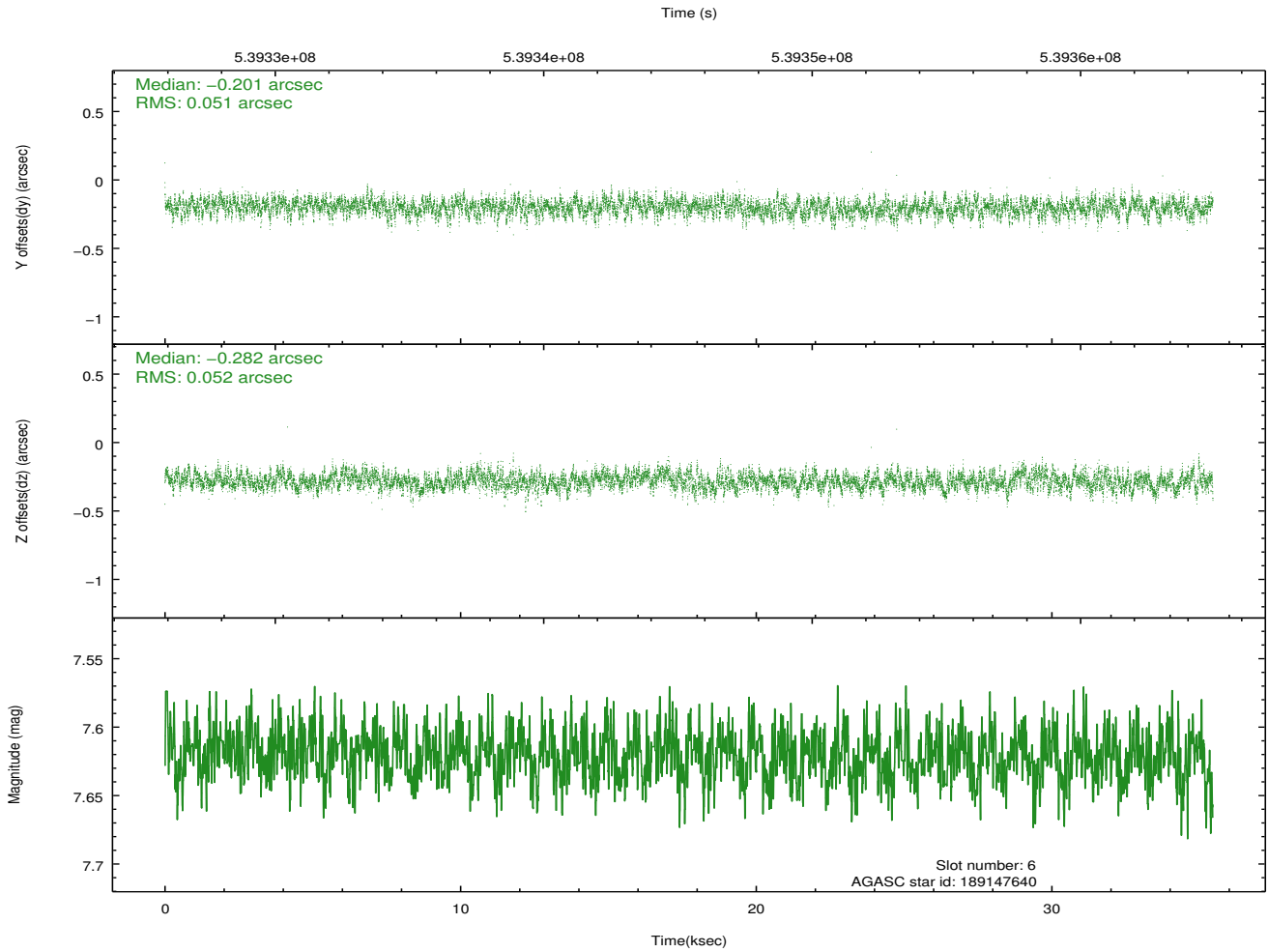
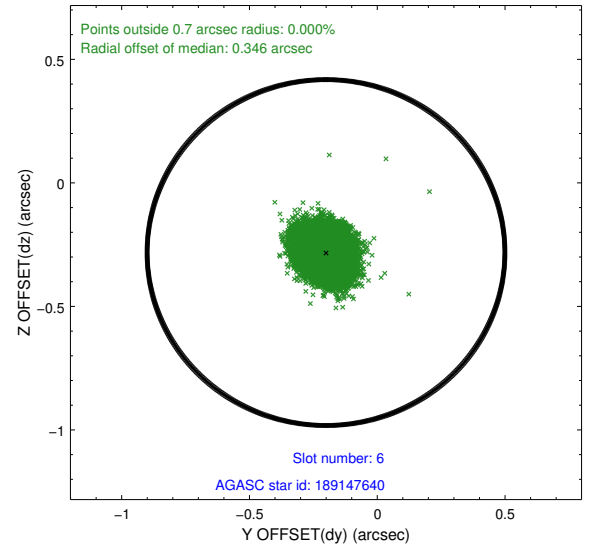
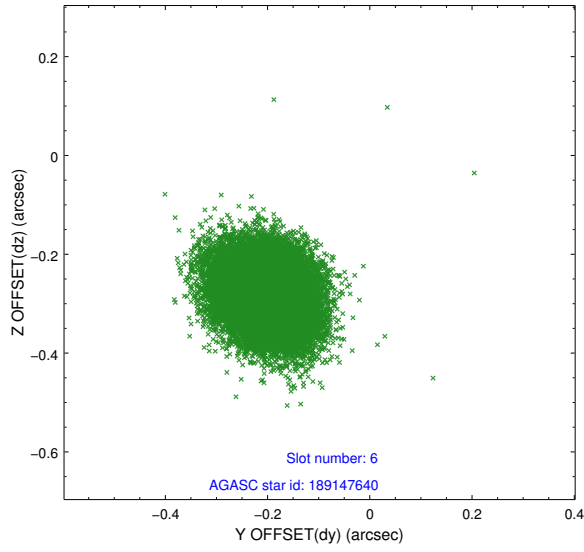
2.4.2 Slot 4



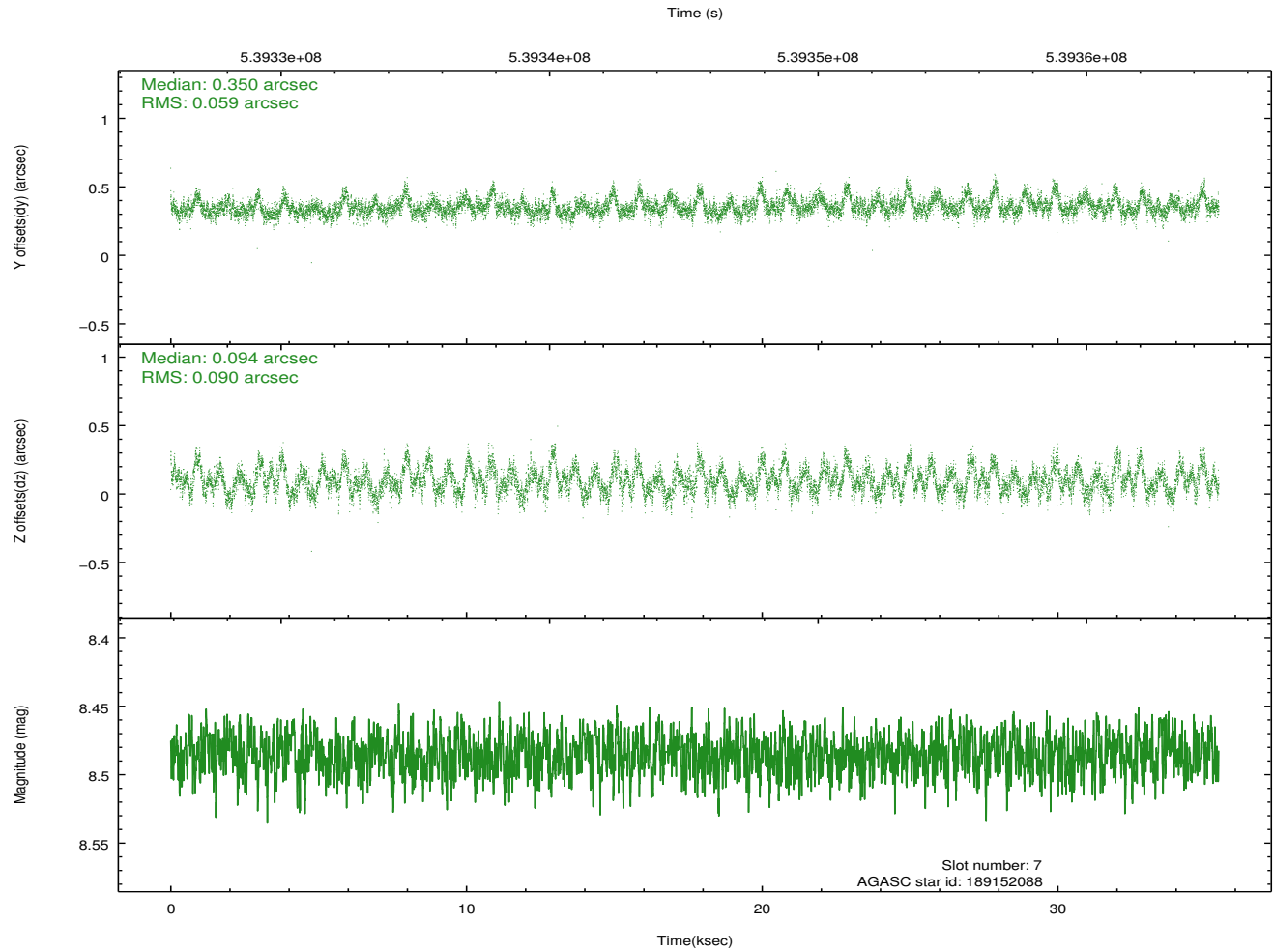
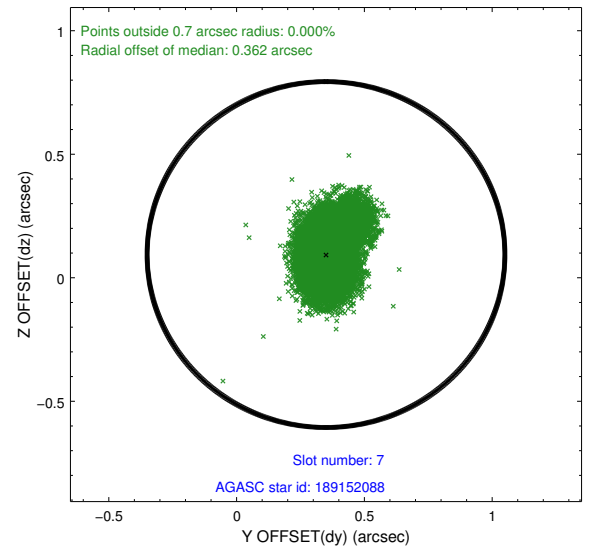
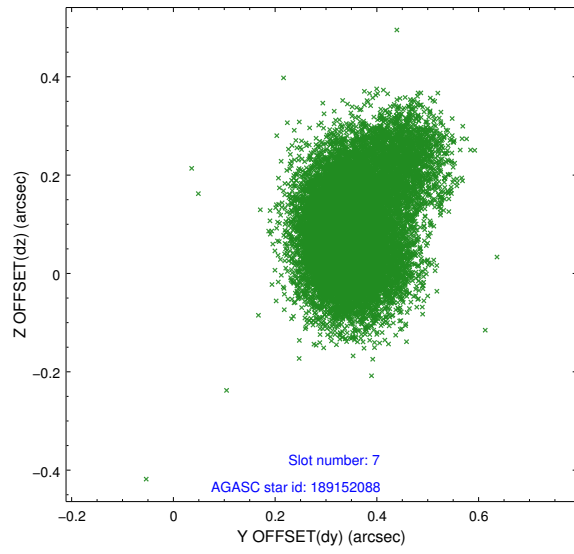
2.4.3 Slot 5



2.4.4 Slot 6

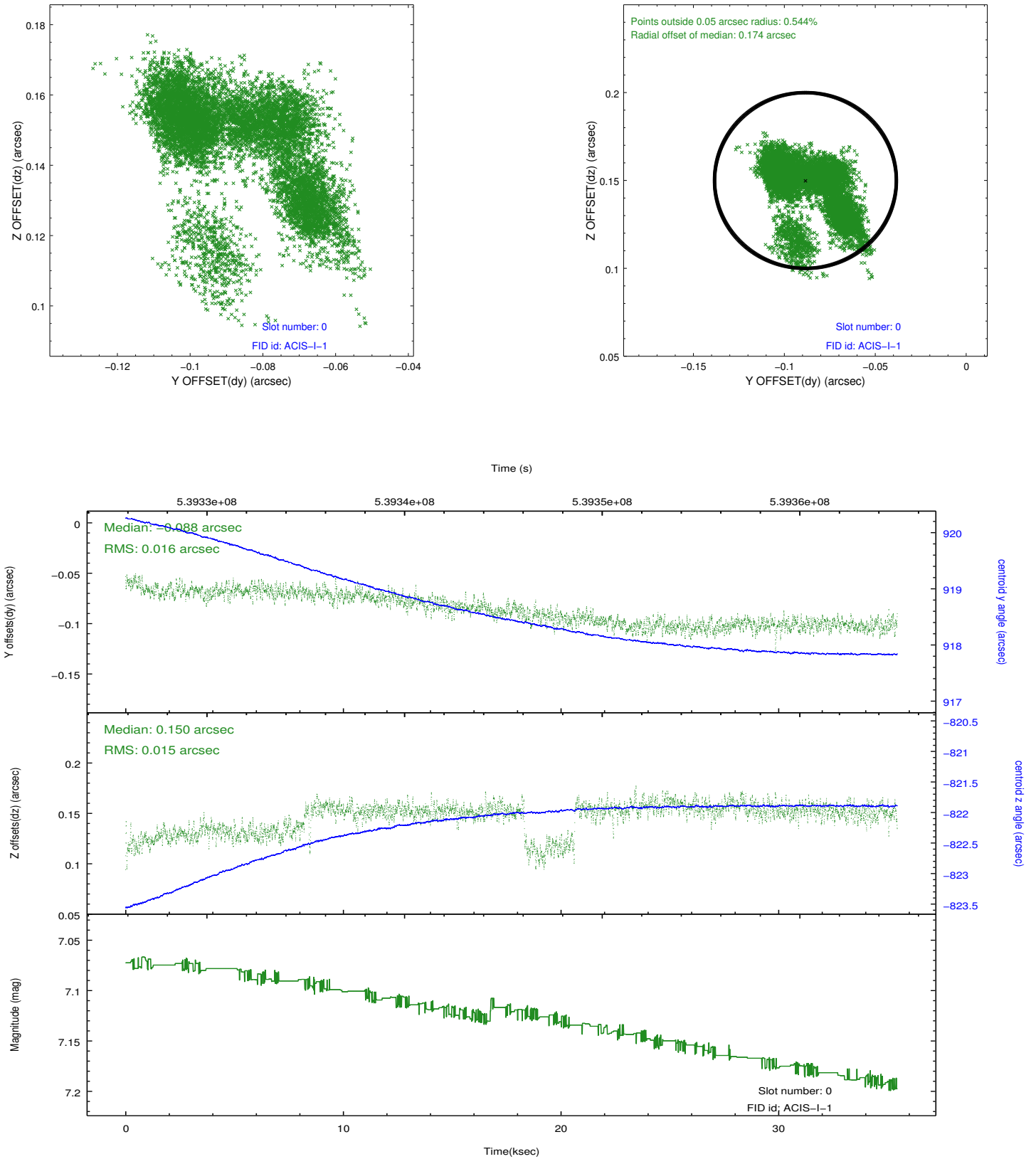


2.4.5 Slot 7

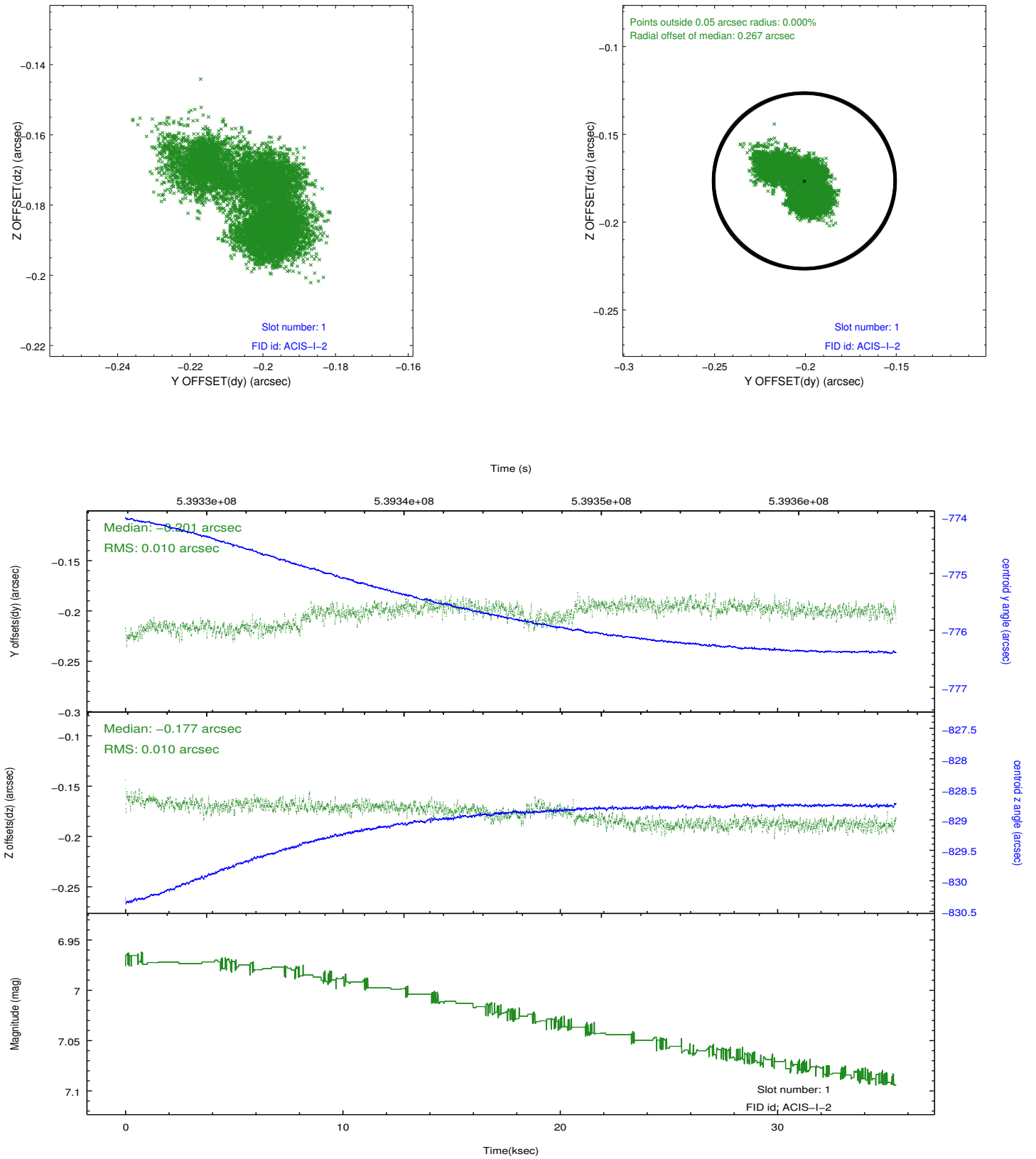


2.5 FID Slots

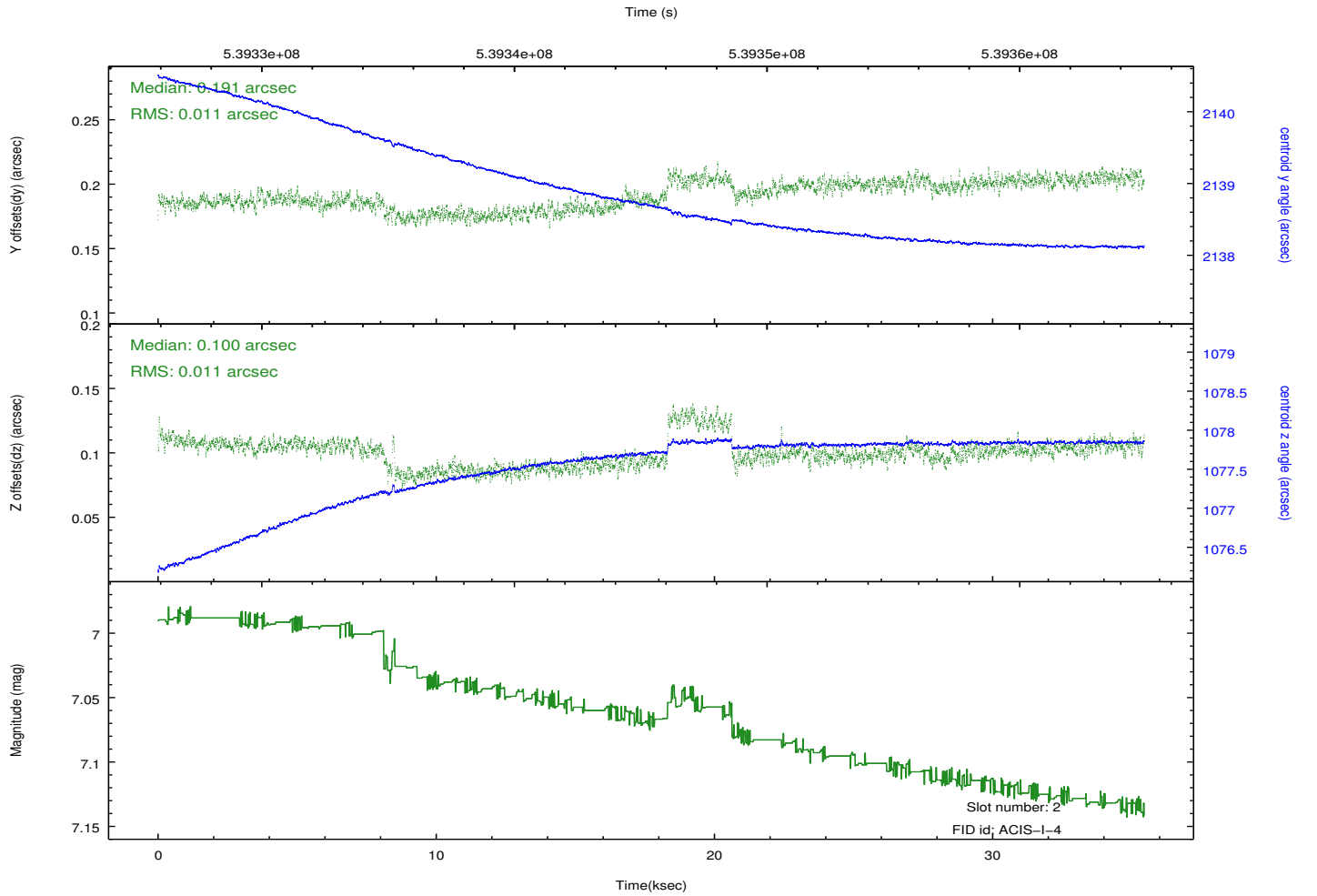
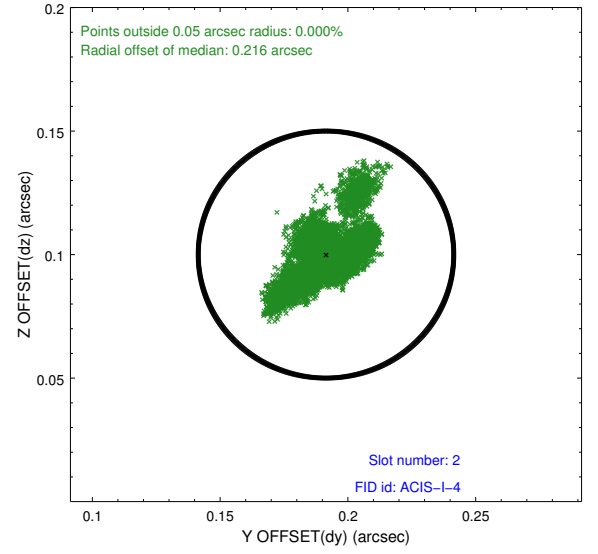
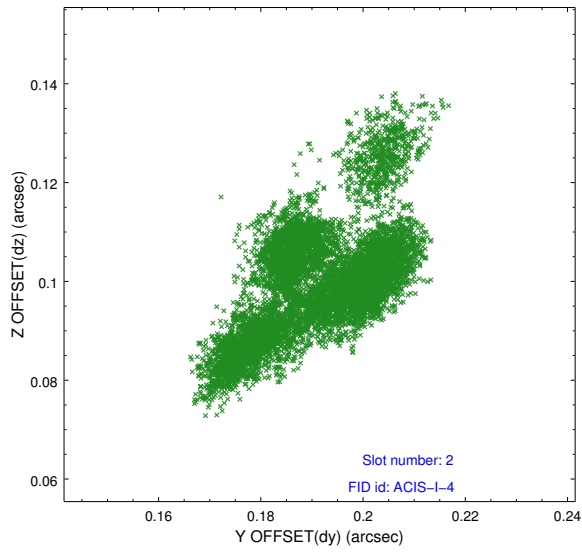
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2015.02.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	35.38340027225

A.2 Comments