

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19653 - L2 Version 2
Chandra X-Ray Center

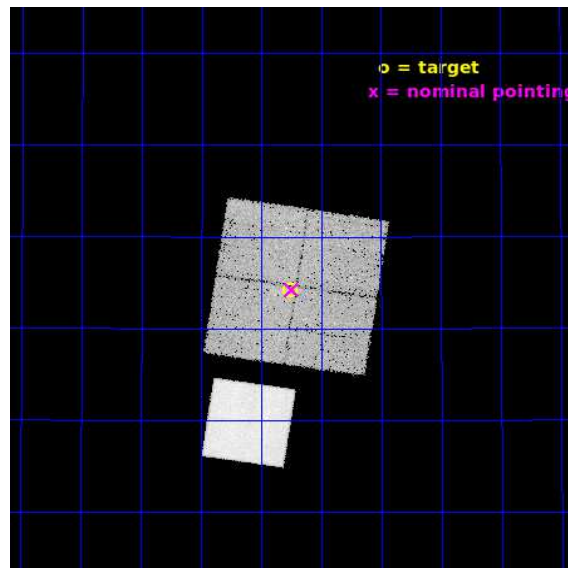
L2 Processing Date : Oct 25 2020

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1 Front

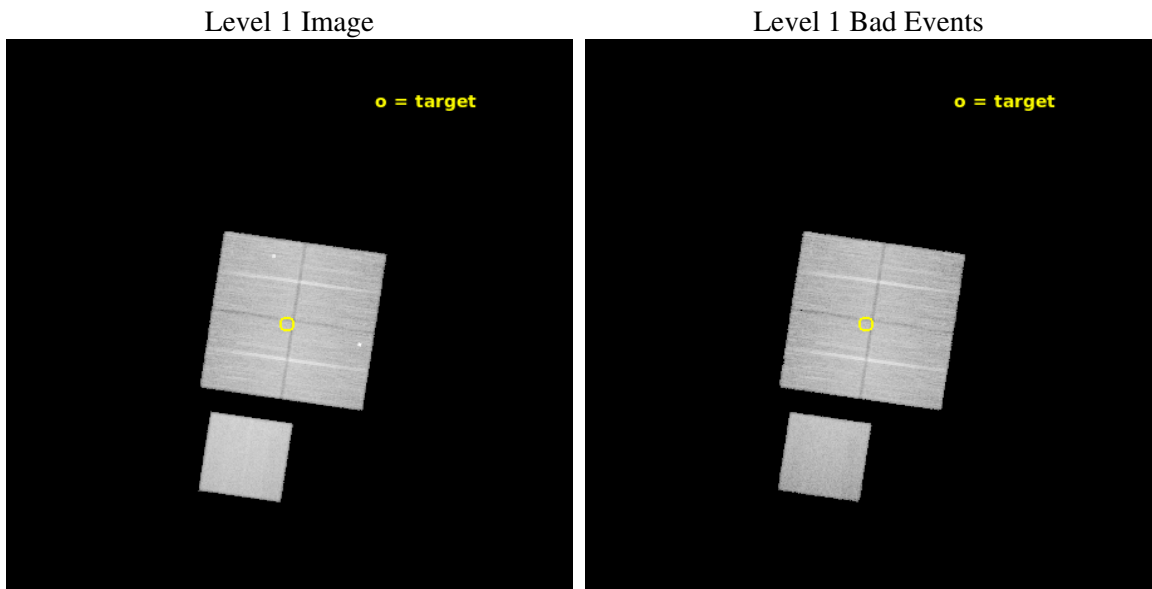
seq_num	901360	Sequence number
obs_id	19653	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.94023	Observer's specified target RA [deg]
dec_targ	33.403048	Observer's specified target Dec [deg]
ra_nom	217.93603763845	Nominal RA [deg]
dec_nom	33.403948886804	Nominal Dec [deg]
roll_nom	188.52004042867	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25051.059102535	Sum of GTIs [s]
livetime	24723.748573039	Livetime [s]
ontime0	25047.918022037	Sum of GTIs [s]
ontime1	25051.059102654	Sum of GTIs [s]
ontime2	25047.918012142	Sum of GTIs [s]
ontime3	25051.059102535	Sum of GTIs [s]
ontime7	25054.200192809	Sum of GTIs [s]
l2events	165163	Number of level 2 events



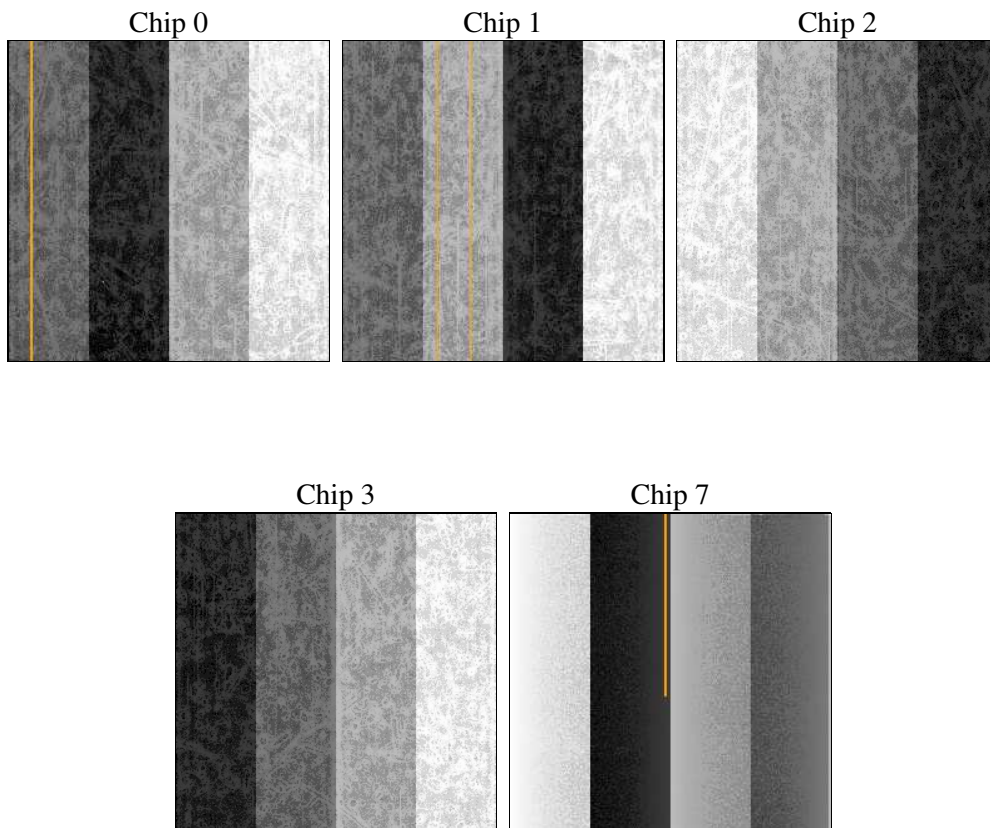
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25051.059102535	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	25047.918022037	Sum of GTIs [s]
date	2020-10-25T21:35:41	Date and time of file creation	ontime1	25051.059102654	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25047.918012142	Sum of GTIs [s]
			ontime3	25051.059102535	Sum of GTIs [s]
			ontime7	25054.200192809	Sum of GTIs [s]
			l1events	972176	Number of level 1 events

2.1.4 Events

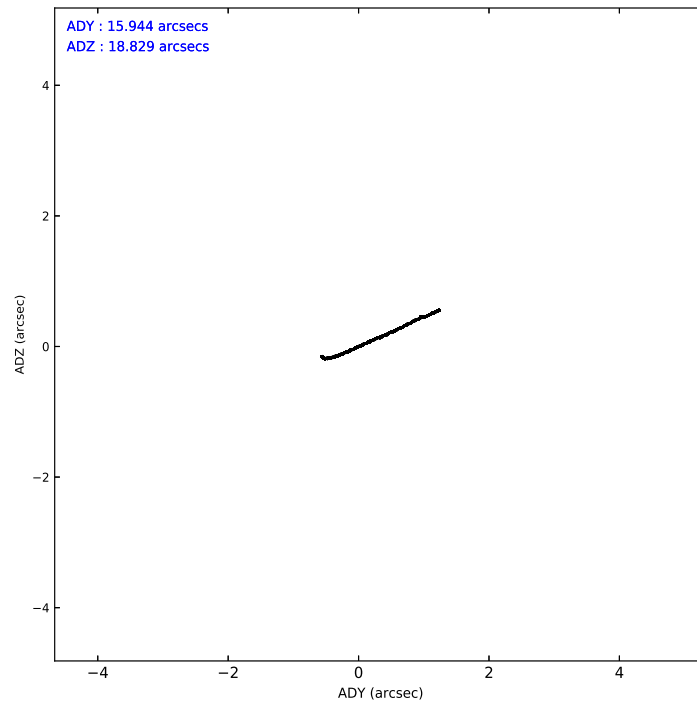
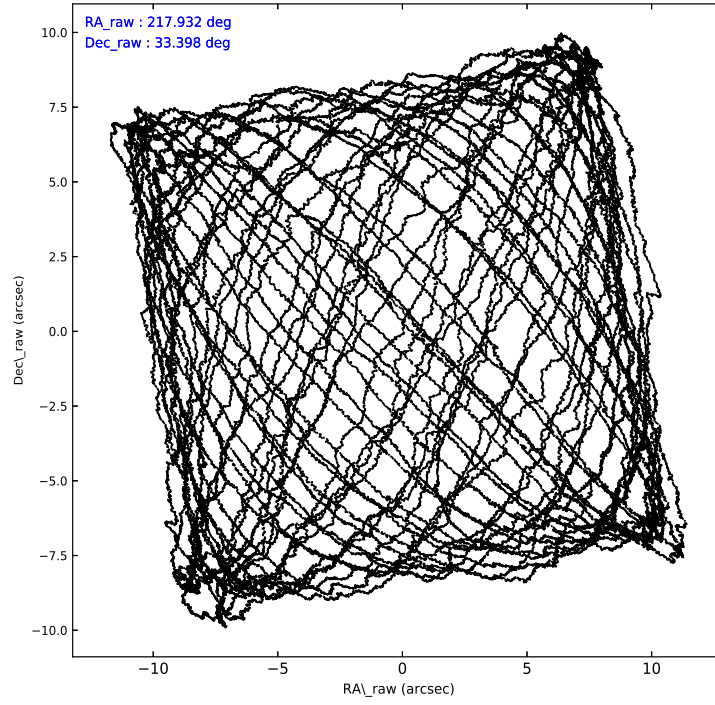
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	173009	180486	195289	183884	239508
rejected events	153228	157874	174187	165317	137026
rejected %	88%	87%	89%	89%	57%

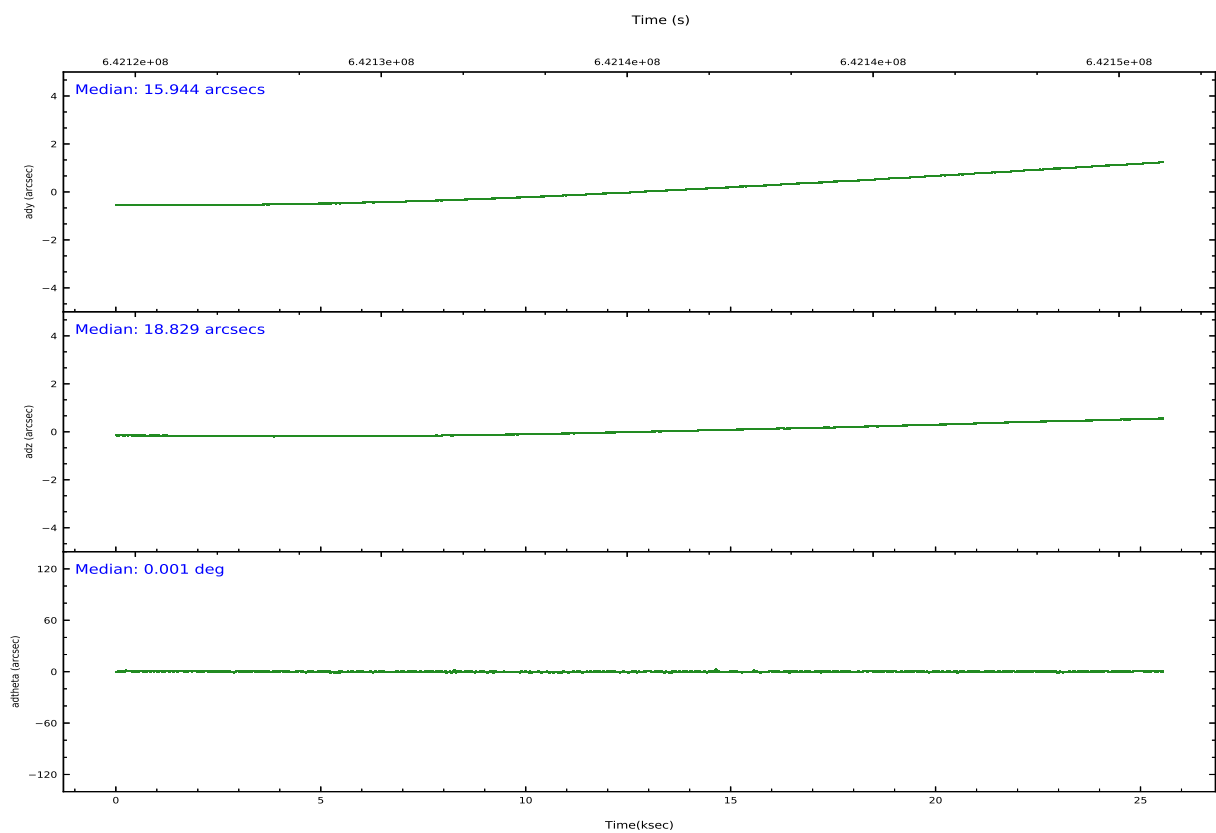
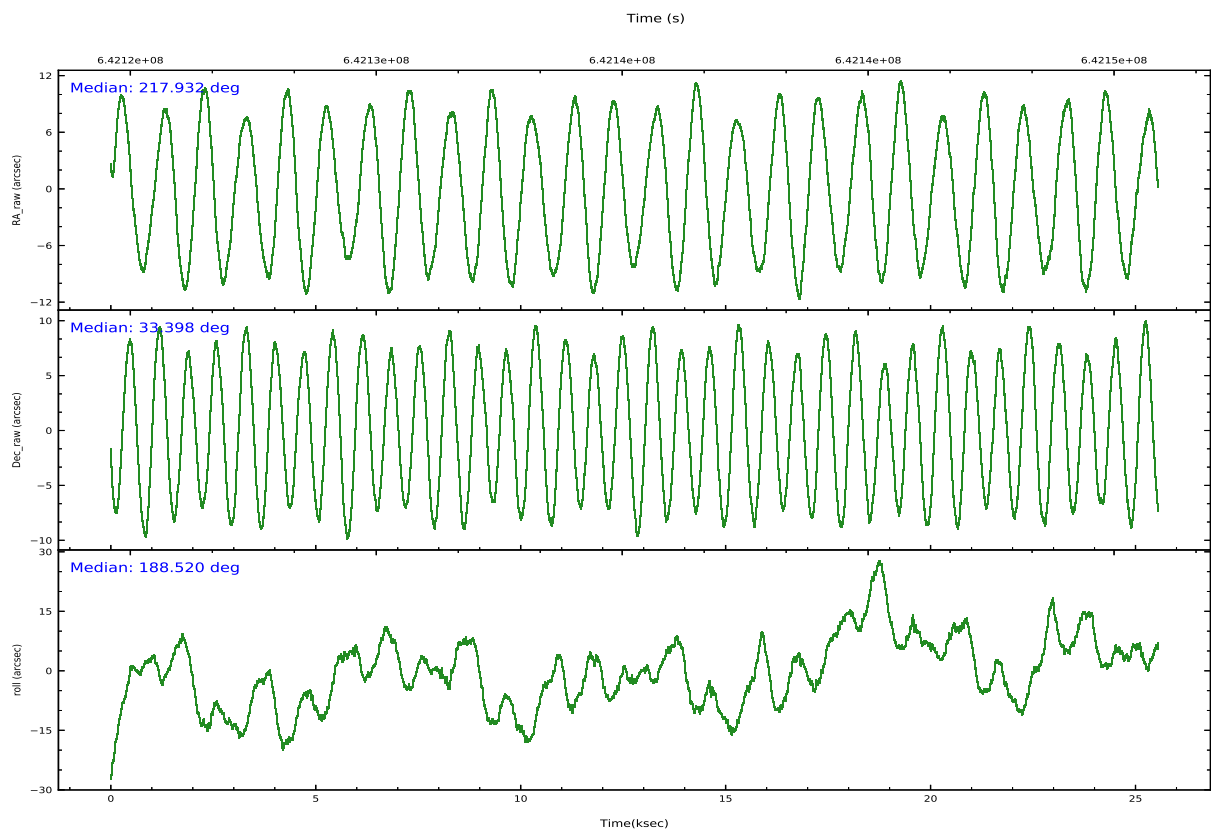
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6496	7766	8546	6487	8708
	3%	4%	4%	3%	3%
grade 1 events	111	93	117	106	330
	0%	0%	0%	0%	0%
grade 2 events	4864	5436	4748	4061	21162
	2%	3%	2%	2%	8%
grade 3 events	2046	2031	1934	1950	8140
	1%	1%	0%	1%	3%
grade 4 events	1925	1968	1929	1930	7925
	1%	1%	0%	1%	3%
grade 5 events	7454	7606	7058	8583	23795
	4%	4%	3%	4%	9%
grade 6 events	4451	5414	3949	4145	56573
	2%	2%	2%	2%	23%
grade 7 events	145662	150172	167008	156622	112875
	84%	83%	85%	85%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	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	217.957247	217.93603763845	CCD I2 on	Y	Y
[deg] Pointing Dec	33.415057	33.403948886804	CCD I3 on	Y	Y
[deg] Pointing Roll	188.303679	188.52004042867	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	N	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	642124076.184000	642122949.59875	CCD S5 on	N	N
Observation start date	2018-05-07T23:46:47	2018-05-07T23:29:09	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	642149076.184000	642149541.17532	On-chip summing requested	N	N
Observation end date	2018-05-08T06:43:27	2018-05-08T06:52:21	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



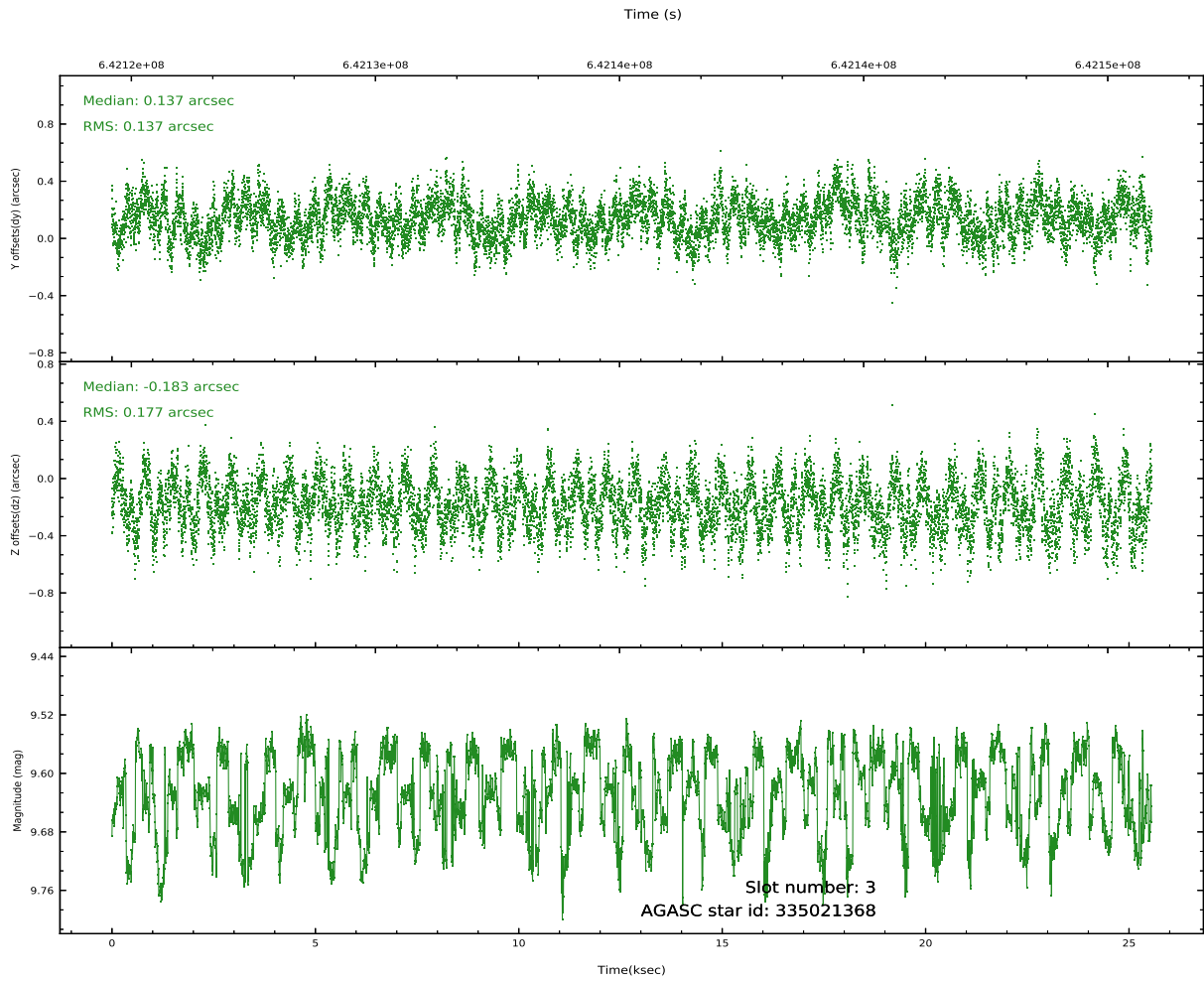
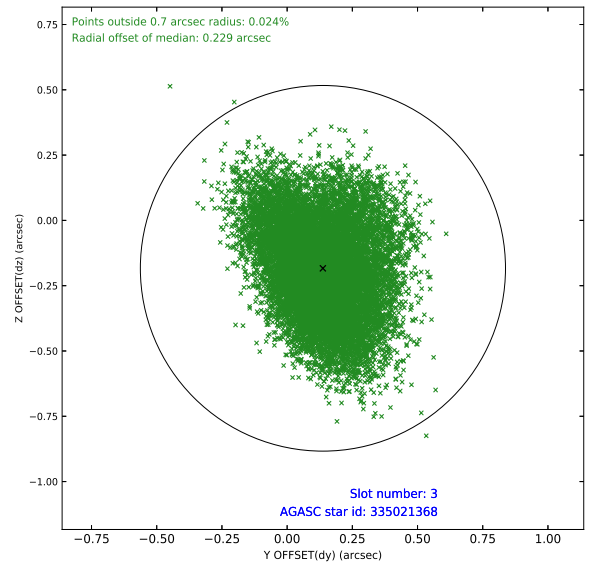
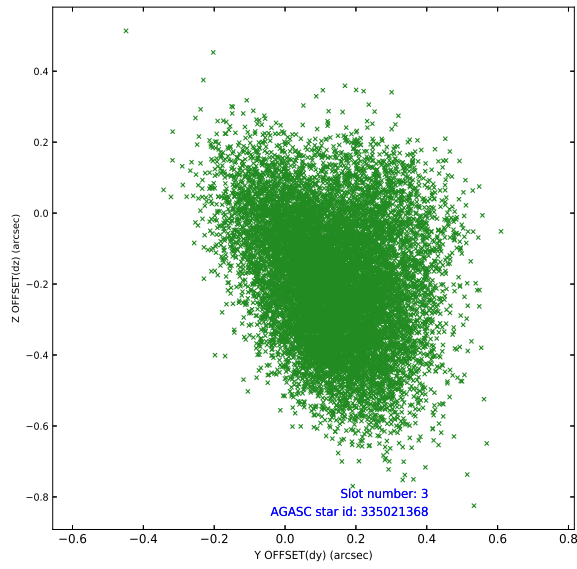


Slot Statistics

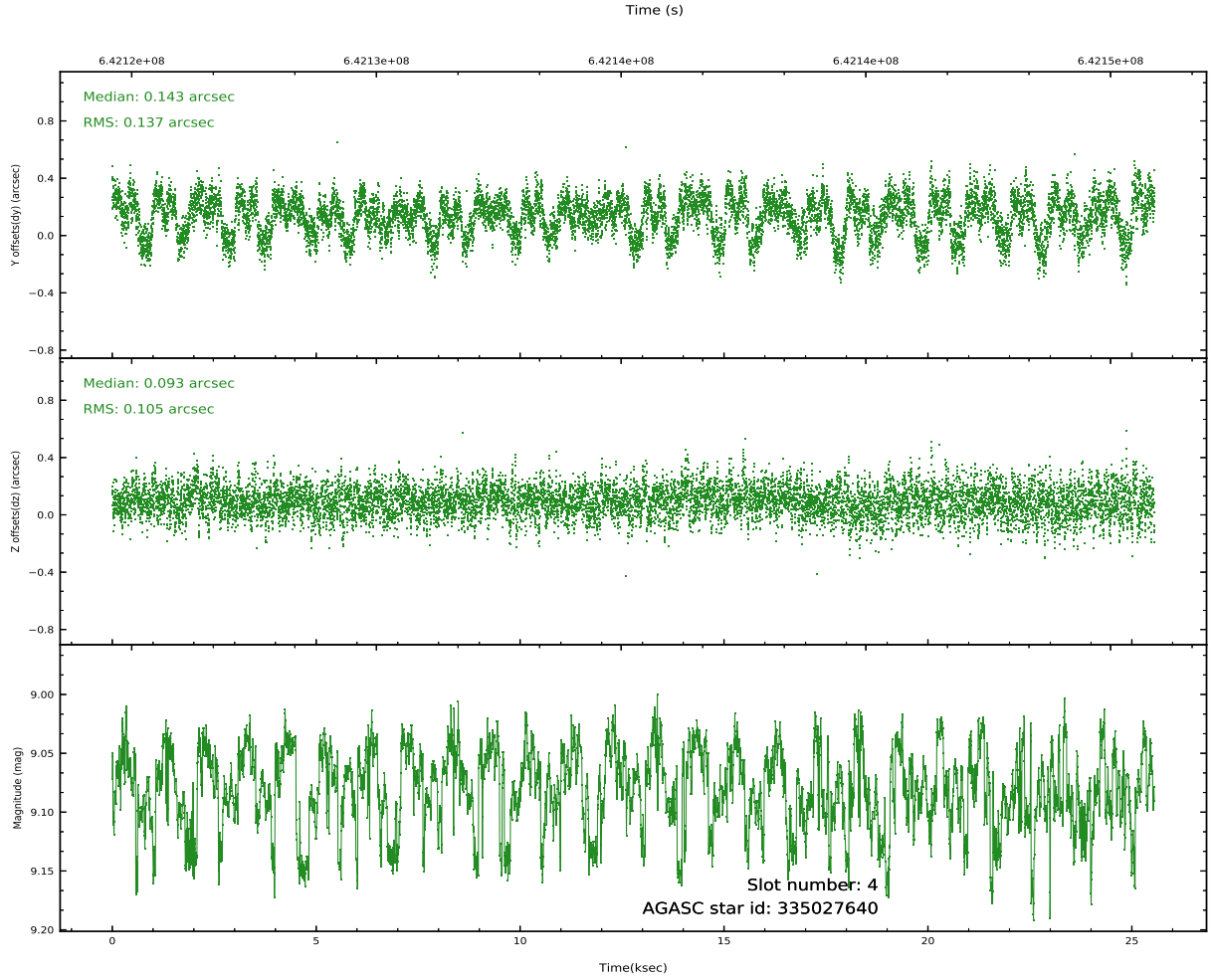
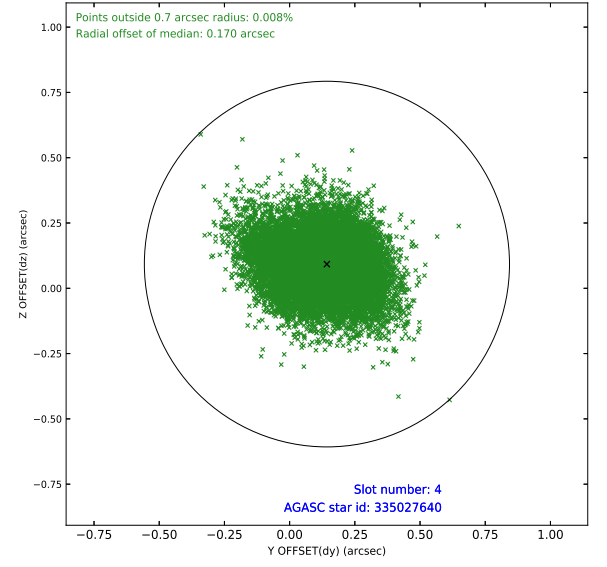
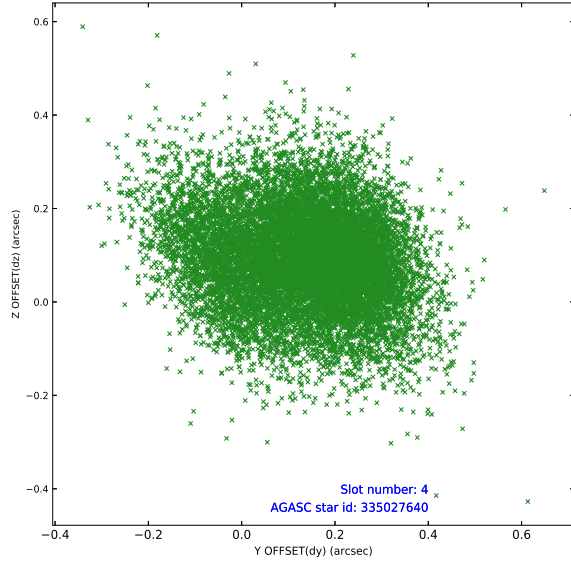
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.25	6232	1.000	0.169	-0.077	0.009	0.026	0.000000	0.000000	923.50	-842
1	FID		ACIS-I-5	7.25	6233	1.000	-0.306	0.149	0.010	0.018	0.000000	0.000000	-1824.93	1055
2	FID		ACIS-I-6	7.26	6233	1.000	0.046	-0.001	0.010	0.021	0.000000	0.000000	388.92	1699
3	GUIDE	used	335021368	9.62	12449	1.000	0.137	-0.183	0.239	0.383	217.529643	33.934817	994.85	-2038
4	GUIDE	used	335027640	9.08	12446	1.000	0.143	0.093	0.185	0.297	218.092211	33.193770	-286.55	847
5	GUIDE	used	335028616	9.94	12440	1.000	-0.079	0.184	0.255	0.437	218.529874	33.175085	-1583.28	1101
6	GUIDE	used	335028696	9.15	12446	1.000	0.079	-0.087	0.207	0.355	217.260519	33.844112	1839.31	-1835
7	GUIDE	used	335029384	8.47	12455	1.000	-0.266	-0.015	0.140	0.242	217.848061	33.088477	495.54	1116

2.4 Star Slots

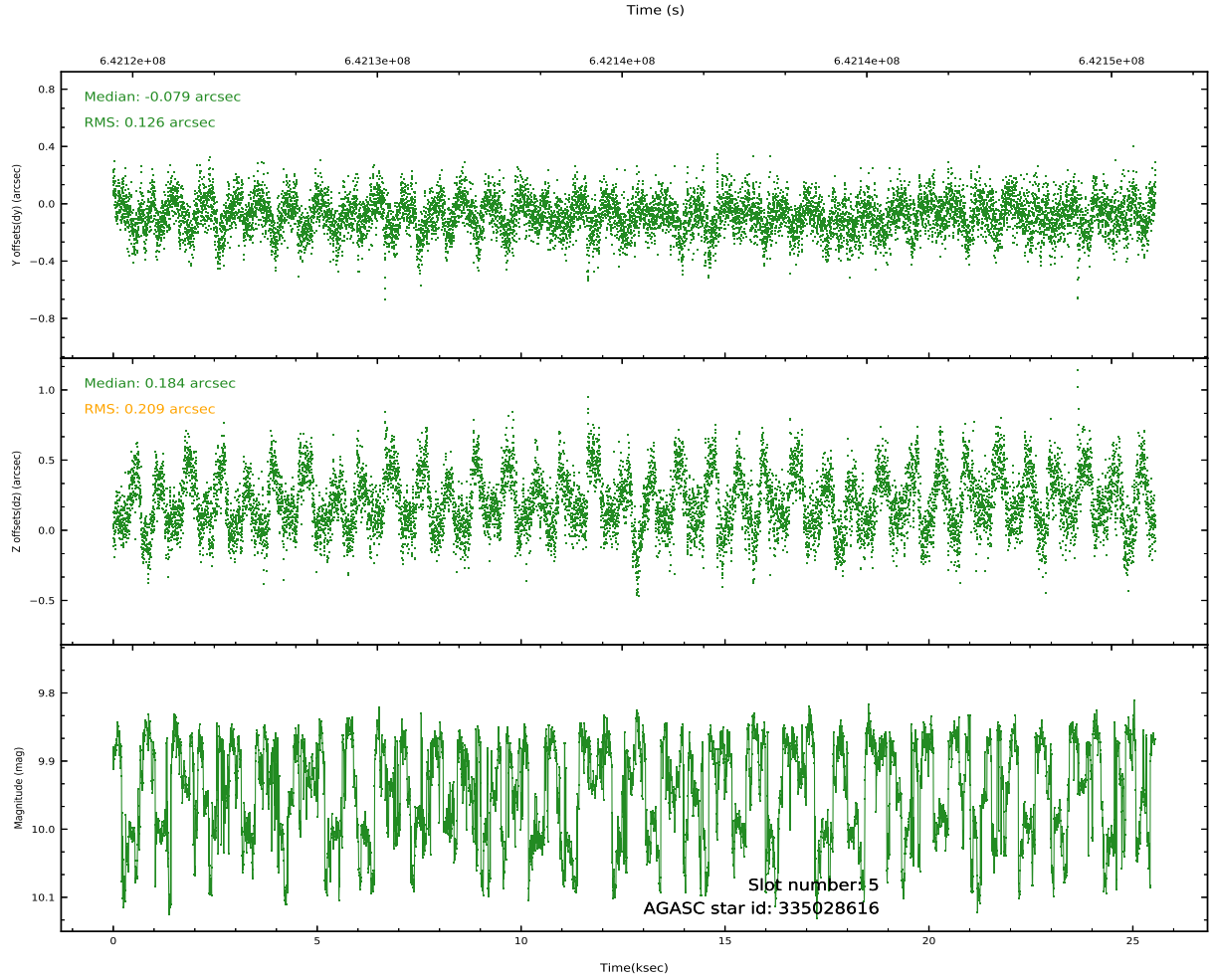
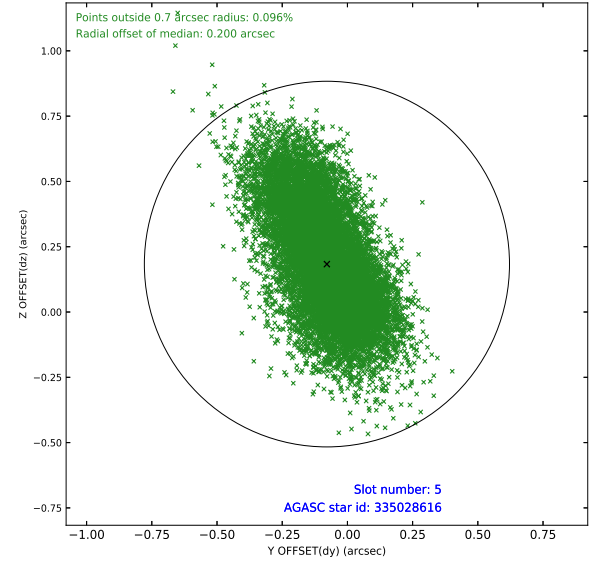
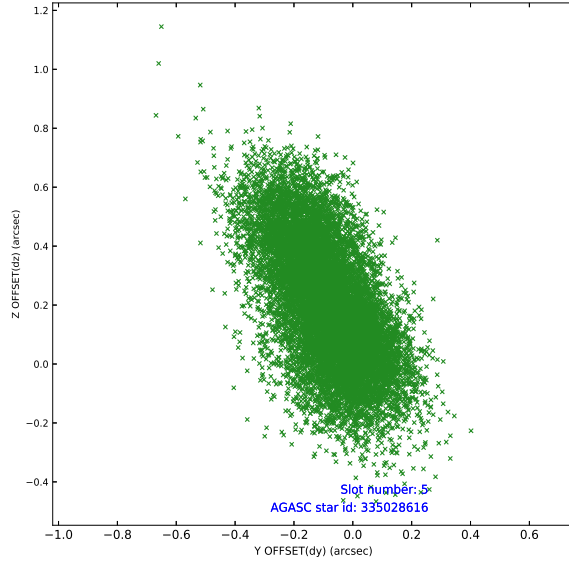
2.4.1 Slot 3



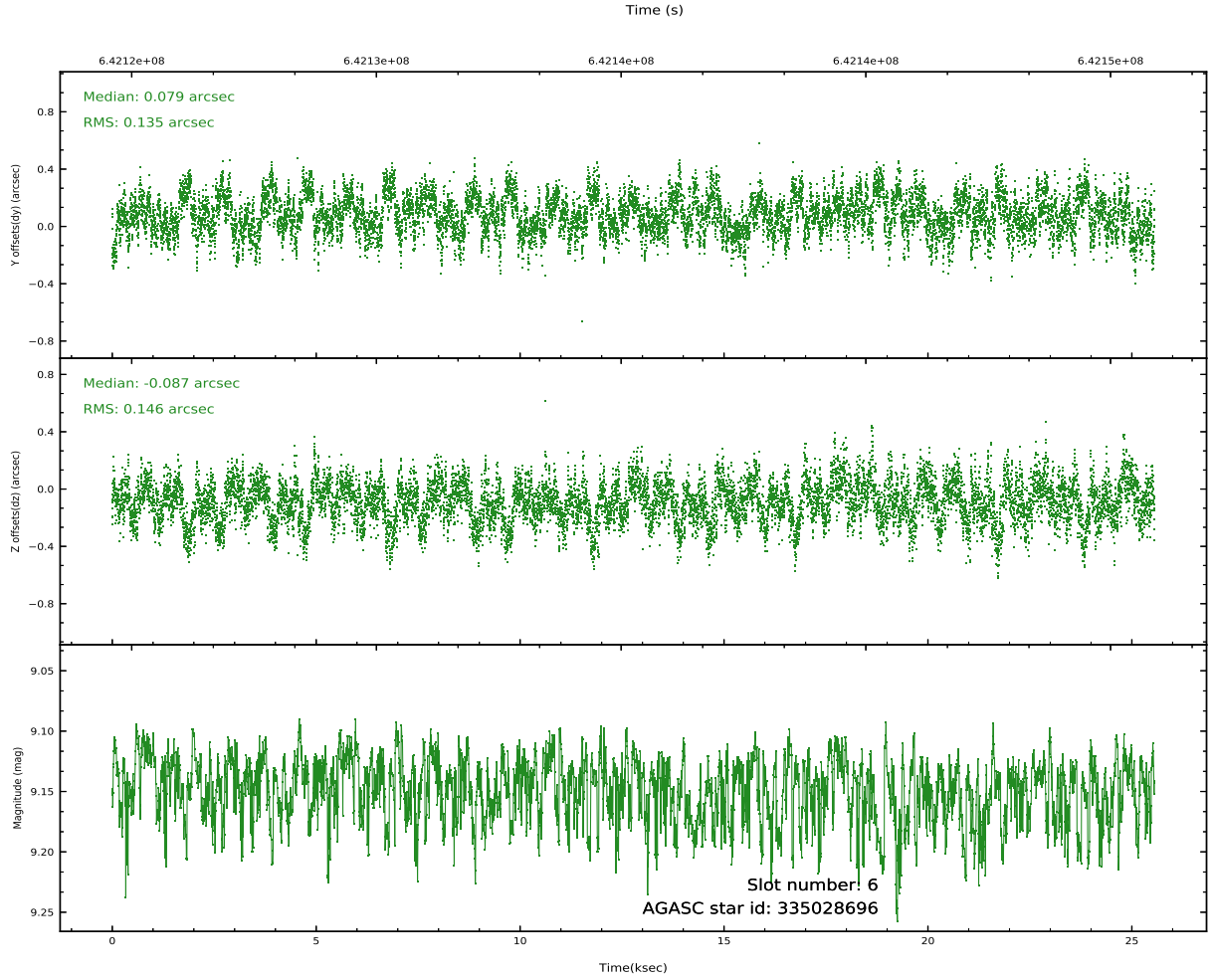
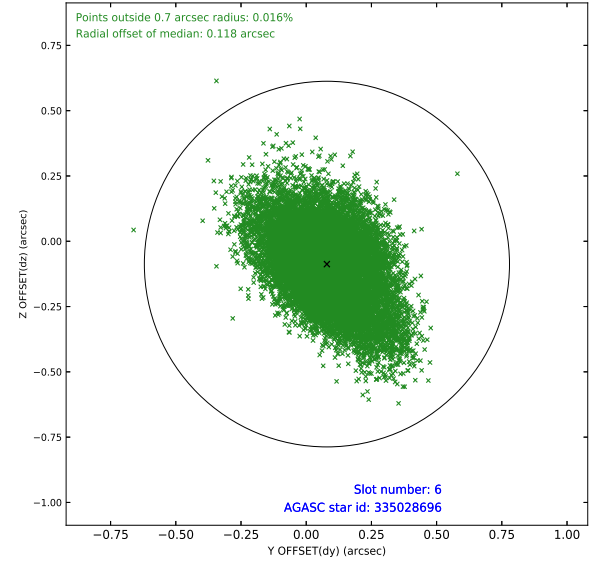
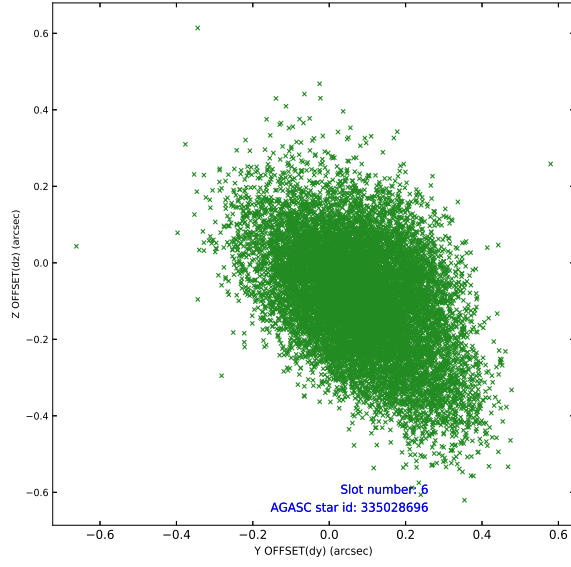
2.4.2 Slot 4



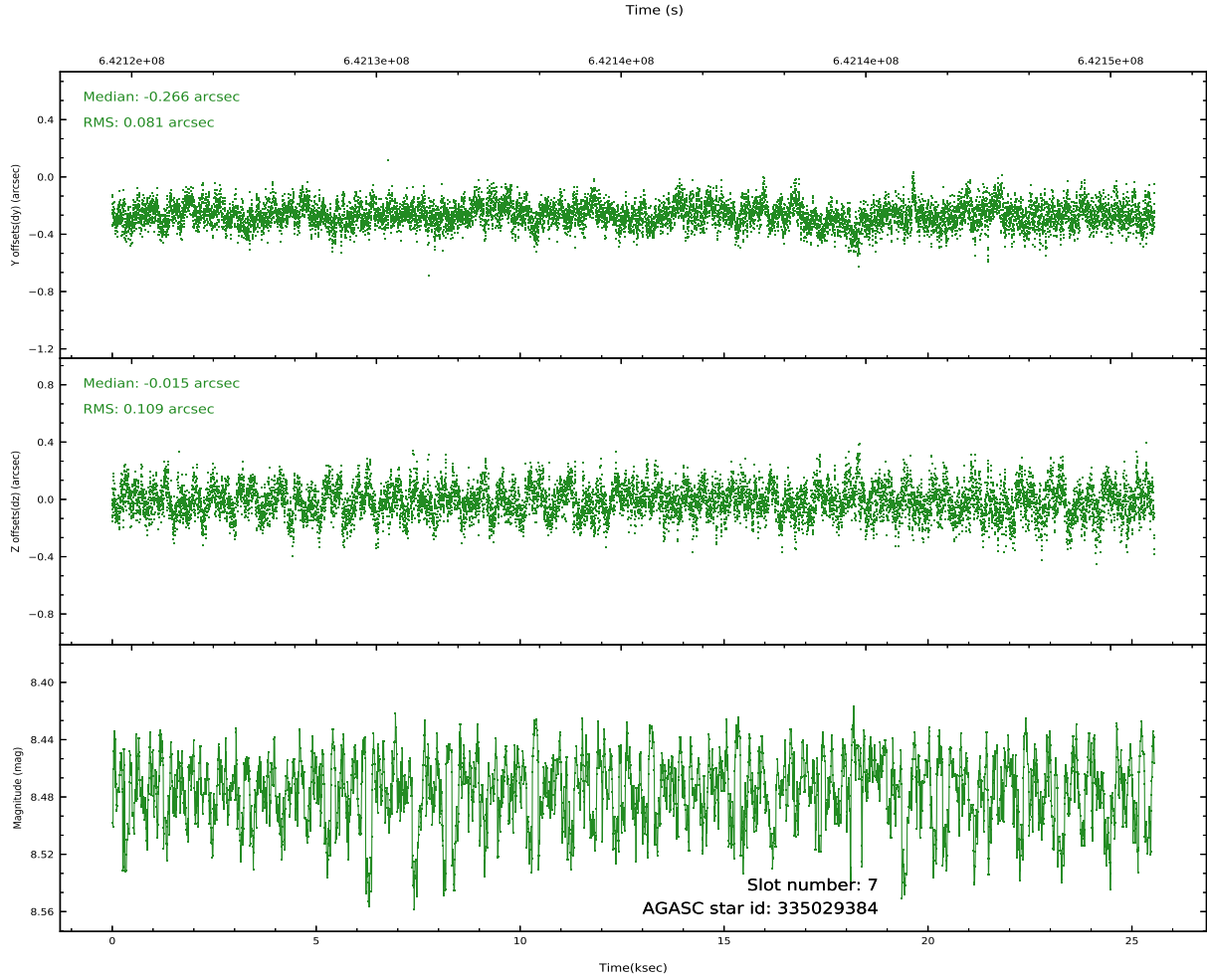
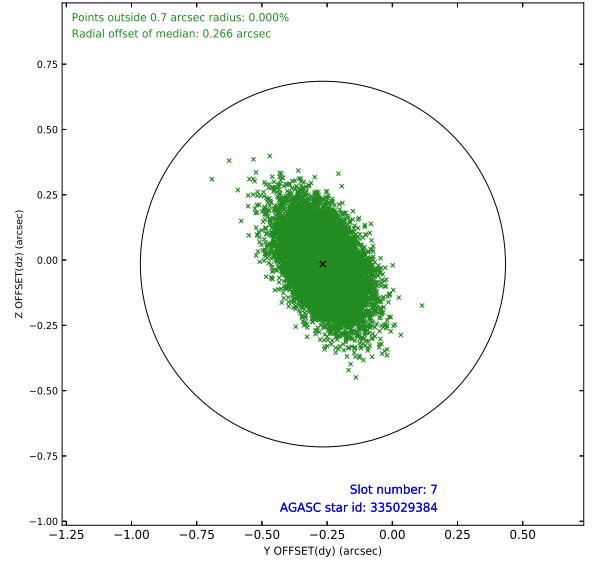
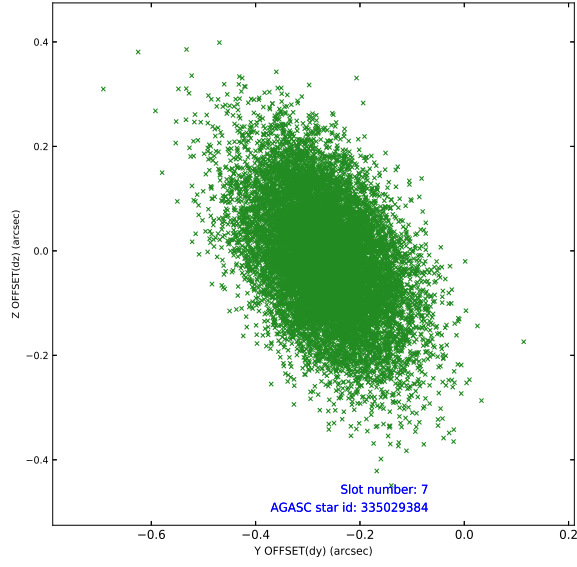
2.4.3 Slot 5



2.4.4 Slot 6

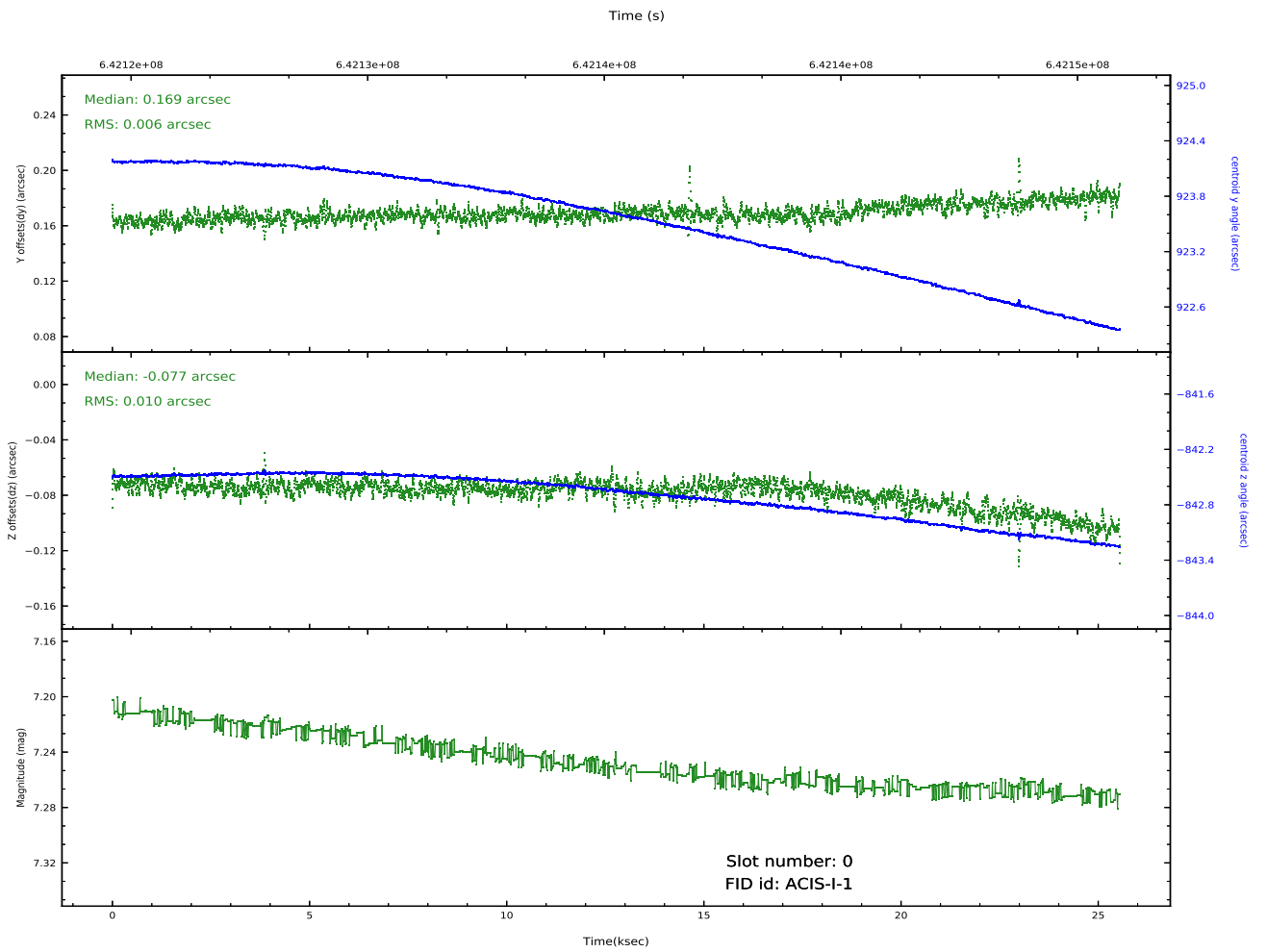
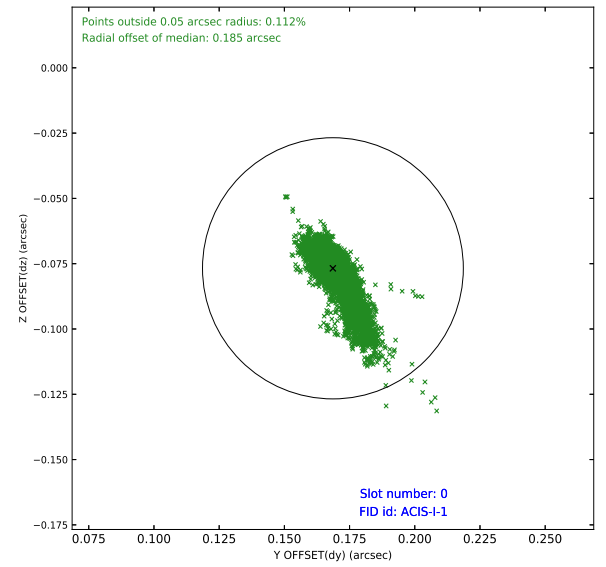
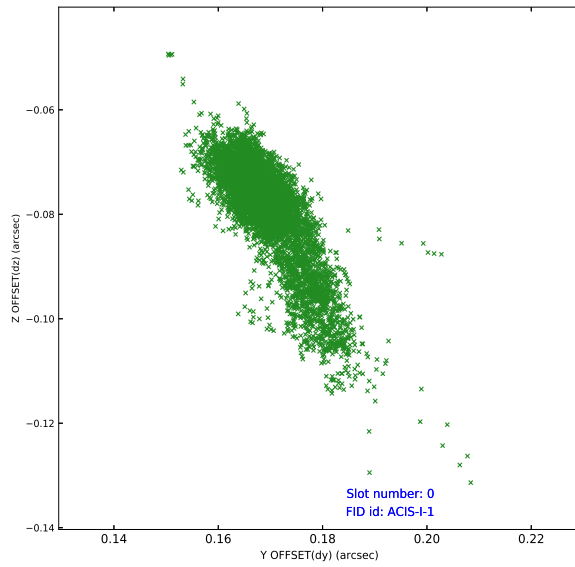


2.4.5 Slot 7

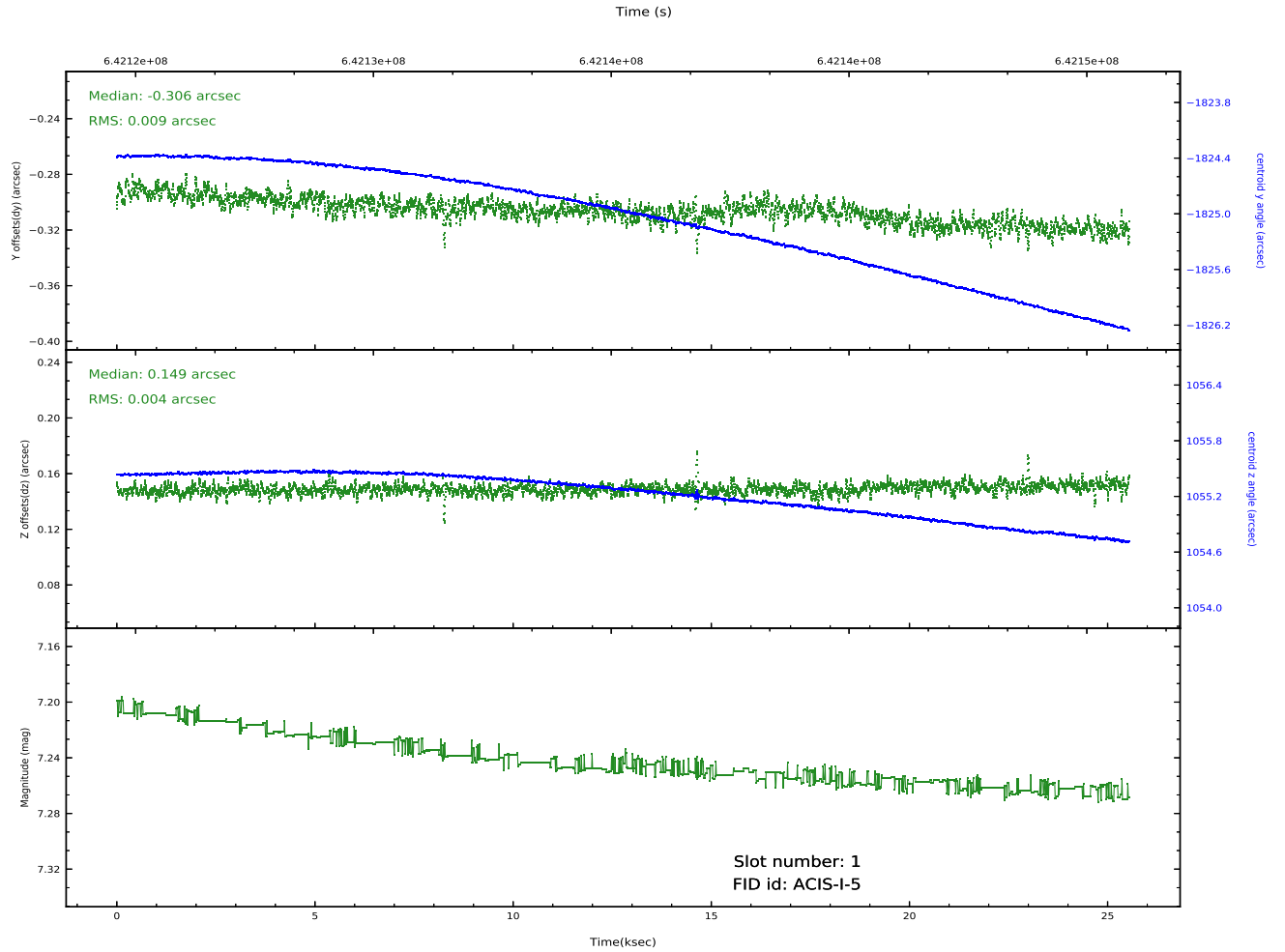
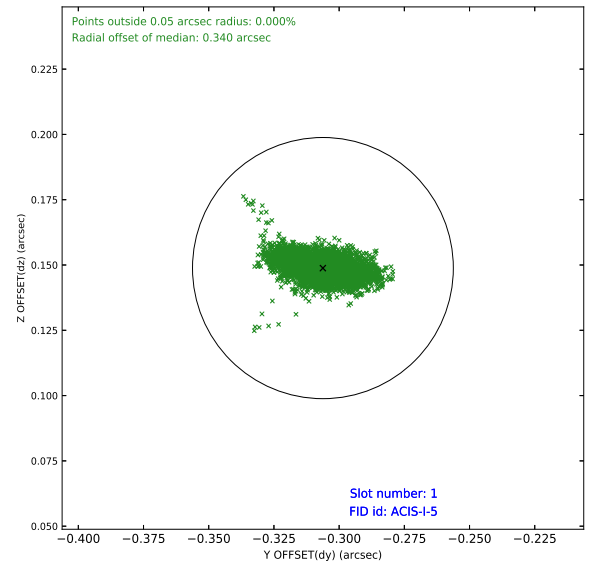
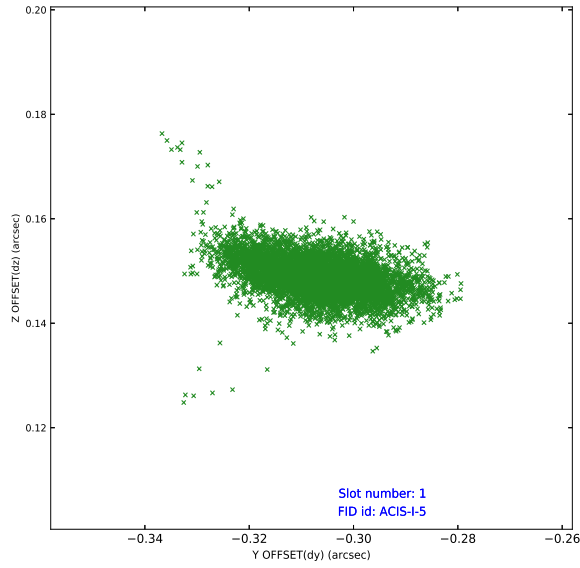


2.5 FID Slots

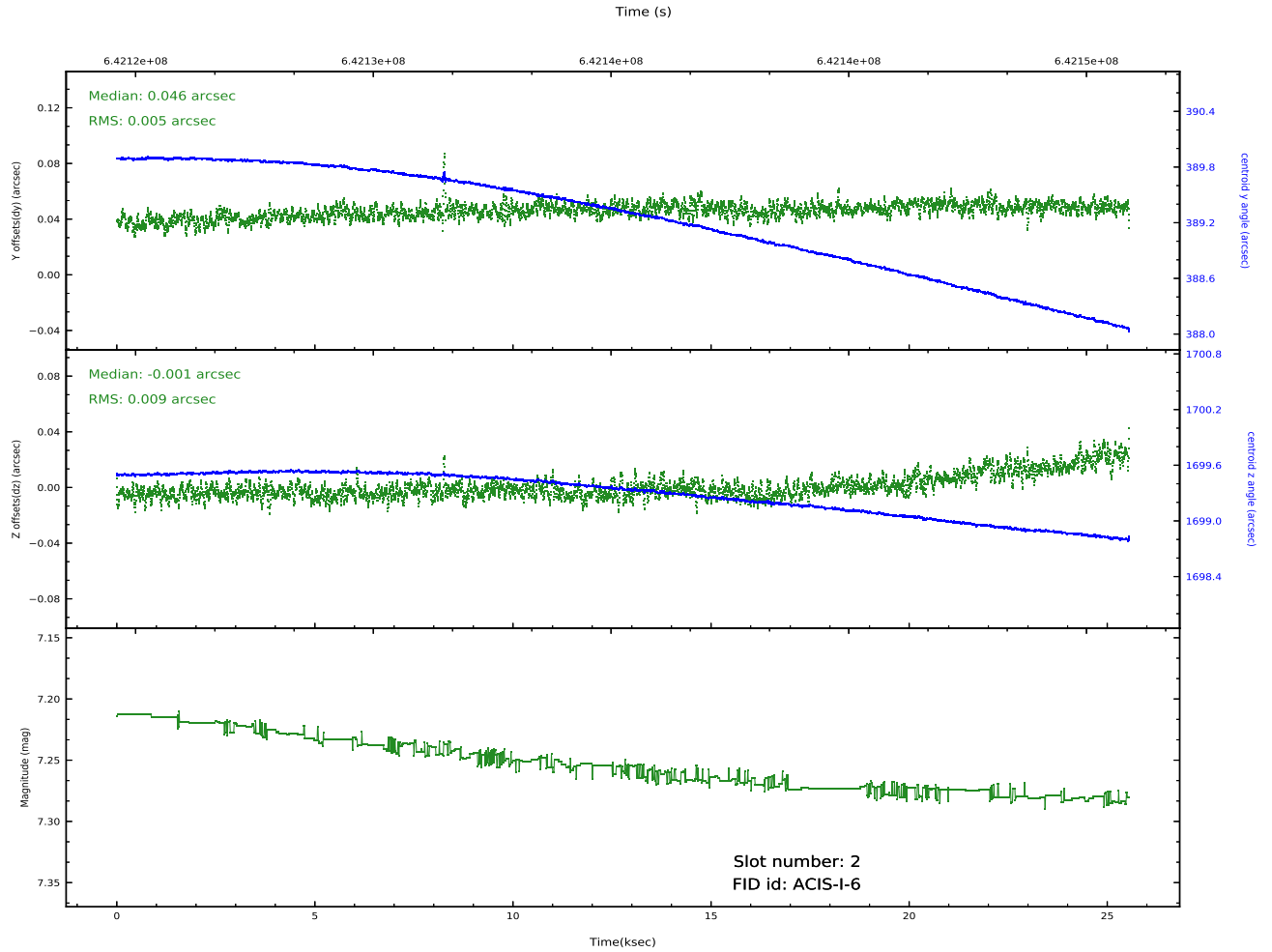
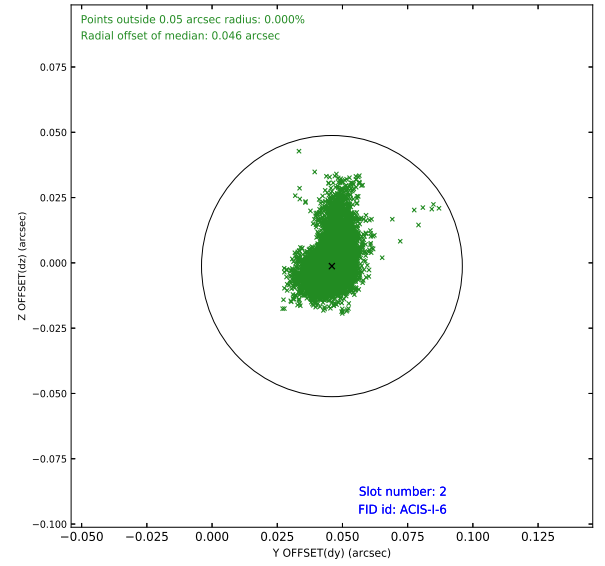
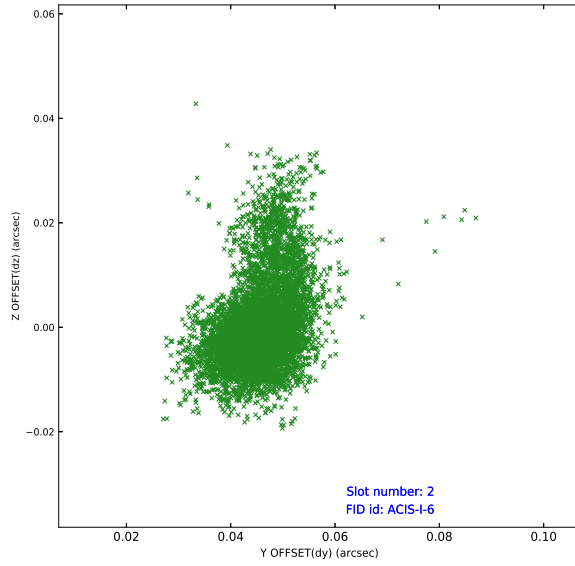
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.051059102535

A.2 Comments