

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19670 - L2 Version 2
Chandra X-Ray Center

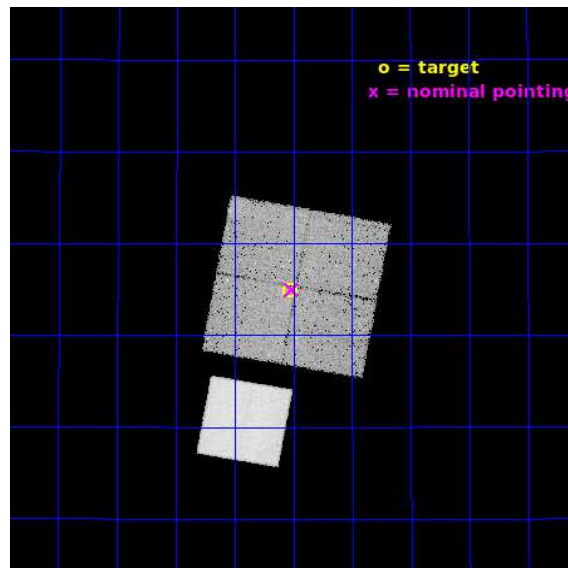
L2 Processing Date : Oct 25 2020

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1 Front

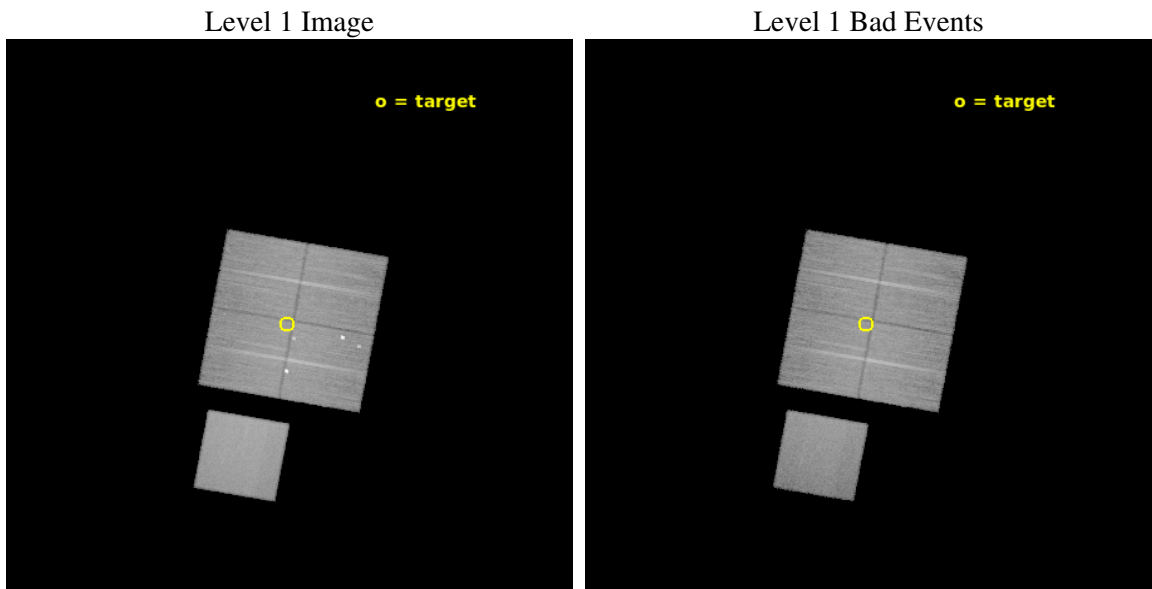
seq_num	901377	Sequence number
obs_id	19670	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.50774	Observer's specified target RA [deg]
dec_targ	35.24873	Observer's specified target Dec [deg]
ra_nom	216.50315418056	Nominal RA [deg]
dec_nom	35.249682781871	Nominal Dec [deg]
roll_nom	190.21166172979	Nominal Roll [deg]
revision	2	Processing version of data
ontime	27053.700208187	Sum of GTIs [s]
livetime	26700.223698323	Livetime [s]
ontime0	27050.559157968	Sum of GTIs [s]
ontime1	27050.559157968	Sum of GTIs [s]
ontime2	27053.700208187	Sum of GTIs [s]
ontime3	27053.700208187	Sum of GTIs [s]
ontime7	27053.700208187	Sum of GTIs [s]
l2events	178404	Number of level 2 events



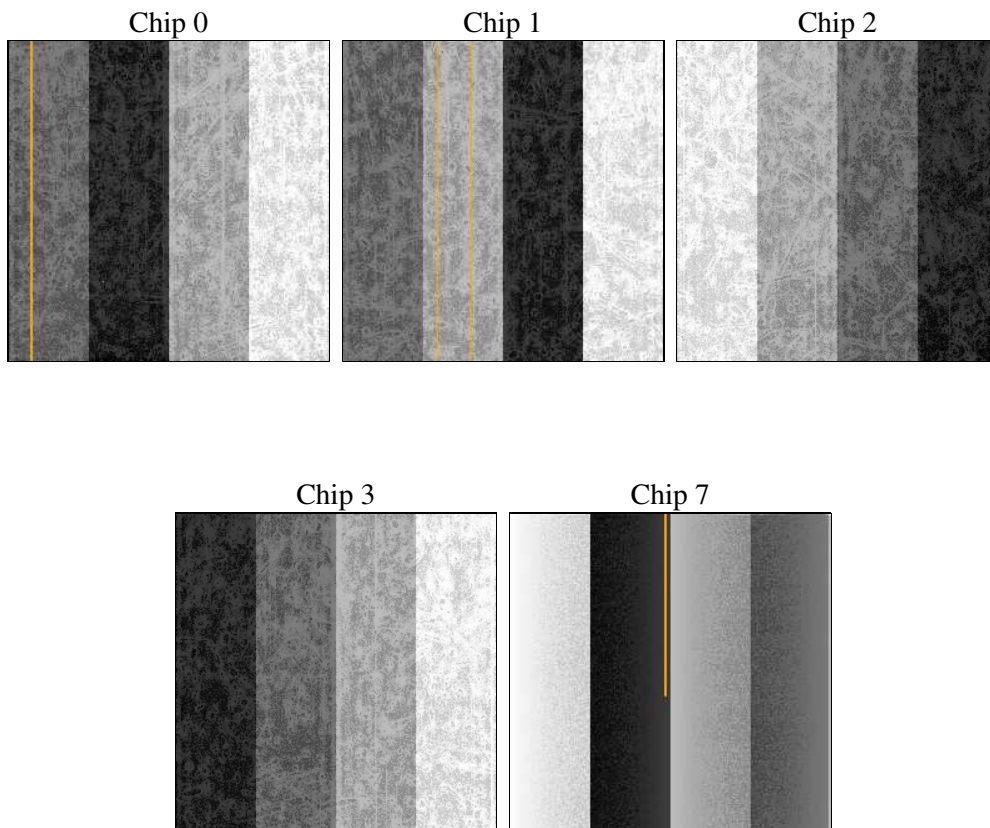
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	27000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	27053.700208187	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	27050.559157968	Sum of GTIs [s]
date	2020-10-25T23:43:16	Date and time of file creation	ontime1	27050.559157968	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	27053.700208187	Sum of GTIs [s]
			ontime3	27053.700208187	Sum of GTIs [s]
			ontime7	27053.700208187	Sum of GTIs [s]
			l1events	1069687	Number of level 1 events

2.1.4 Events

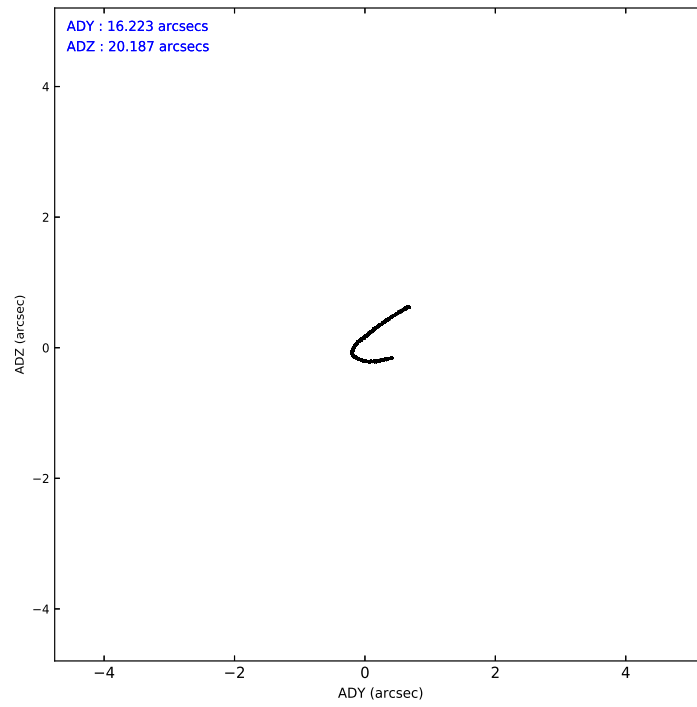
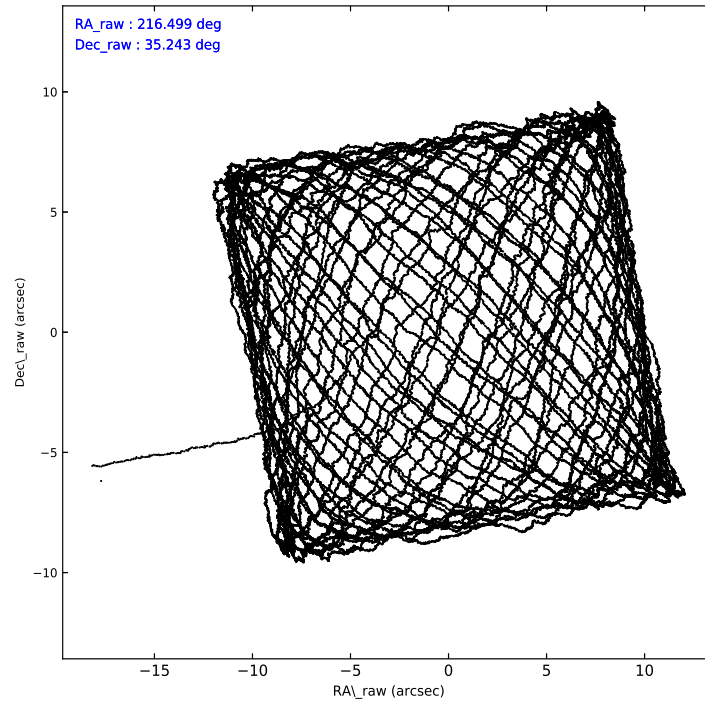
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	190826	192272	229616	199207	257766
rejected events	168988	169116	189931	178702	147744
rejected %	88%	87%	82%	89%	57%

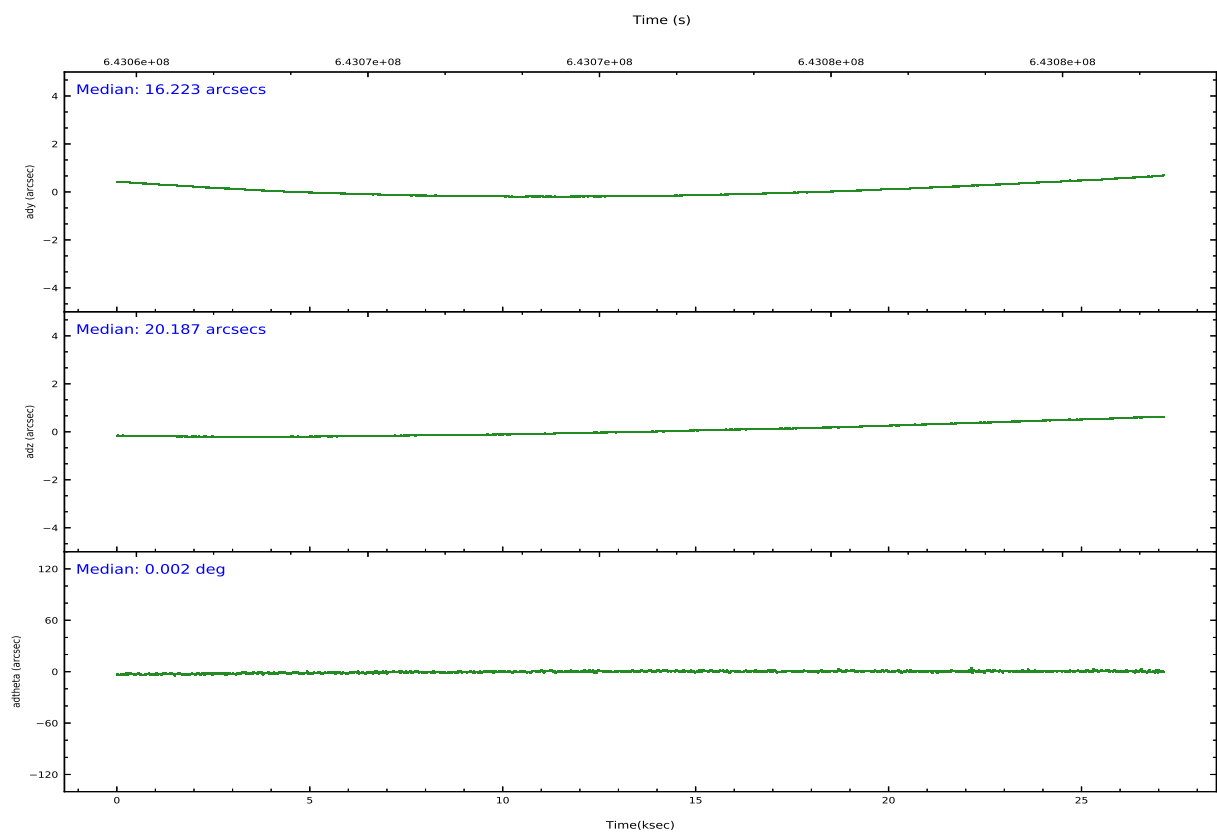
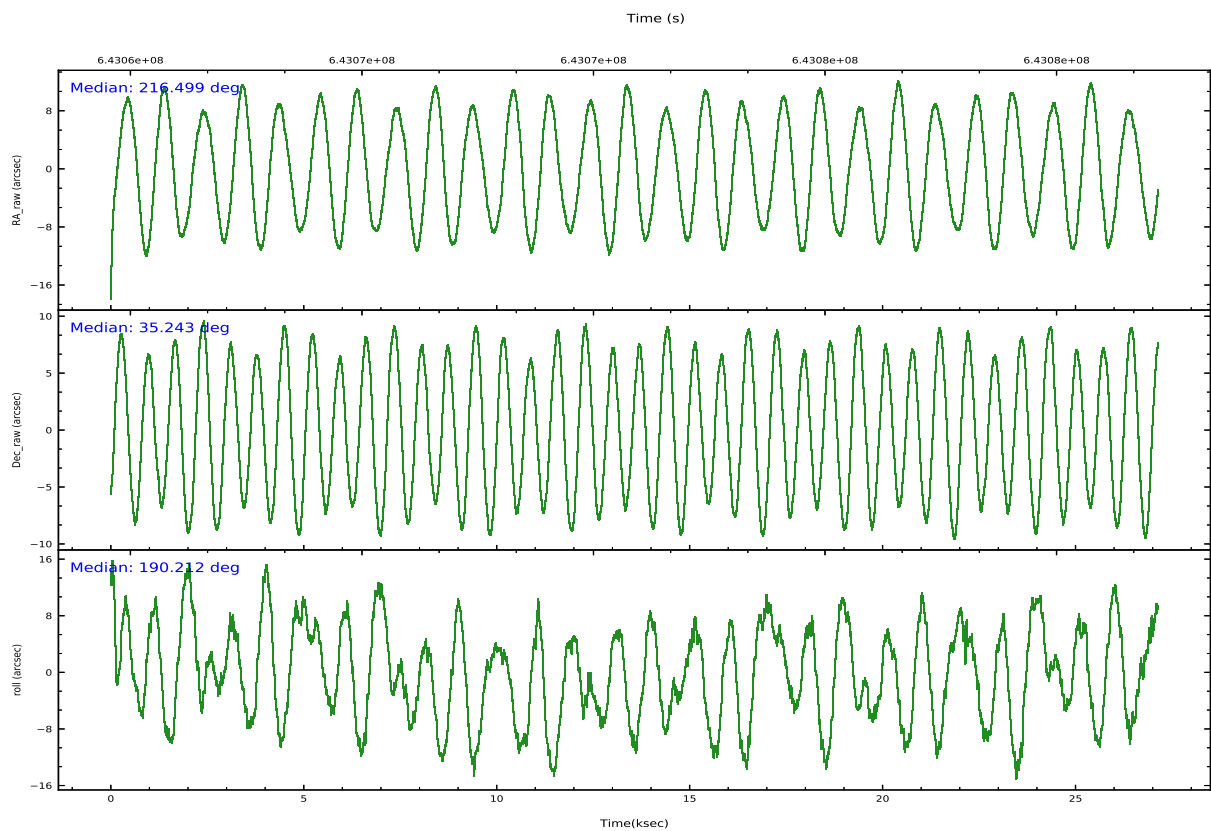
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	7245	7339	16850	7116	9126
	3%	3%	7%	3%	3%
grade 1 events	91	74	157	98	378
	0%	0%	0%	0%	0%
grade 2 events	5491	5815	14260	4411	23099
	2%	3%	6%	2%	8%
grade 3 events	2151	2143	2068	2272	8529
	1%	1%	0%	1%	3%
grade 4 events	2125	2081	2109	2213	8496
	1%	1%	0%	1%	3%
grade 5 events	8023	8162	7695	9067	24873
	4%	4%	3%	4%	9%
grade 6 events	4835	5782	4405	4497	60792
	2%	3%	1%	2%	23%
grade 7 events	160865	160876	182072	169533	122473
	84%	83%	79%	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	216.524482	216.50315418056	CCD I2 on	Y	Y
[deg] Pointing Dec	35.261016	35.249682781871	CCD I3 on	Y	Y
[deg] Pointing Roll	189.990332	190.21166172979	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)	643059633.184000	643057992.06651	CCD S5 on	N	N
Observation start date	2018-05-18T19:39:24	2018-05-18T19:13:12	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	643086633.184000	643088033.79329	On-chip summing requested	N	N
Observation end date	2018-05-19T03:09:24	2018-05-19T03:33:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



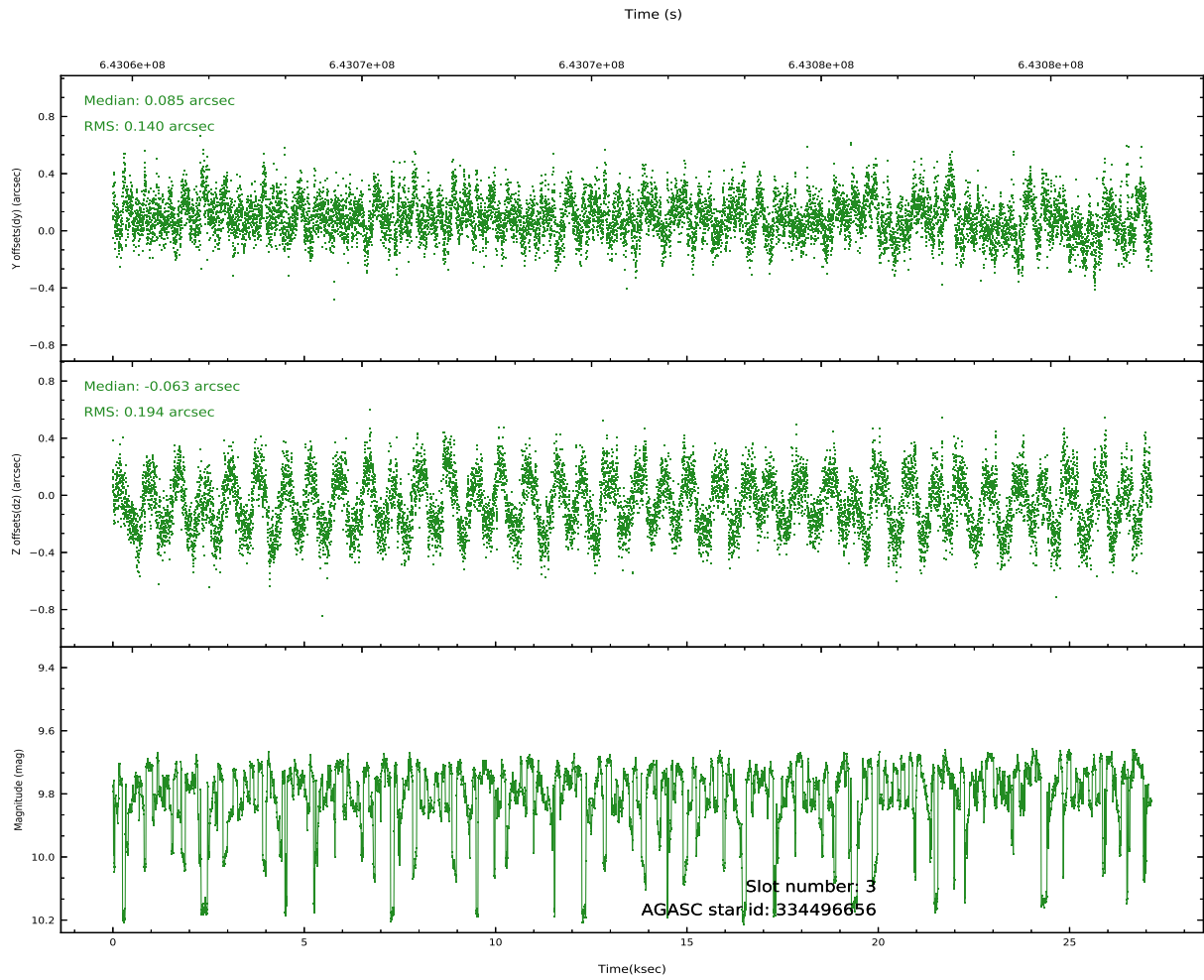
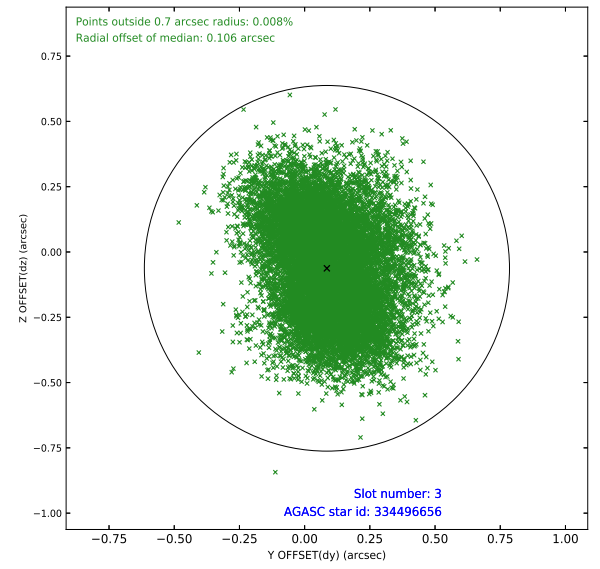
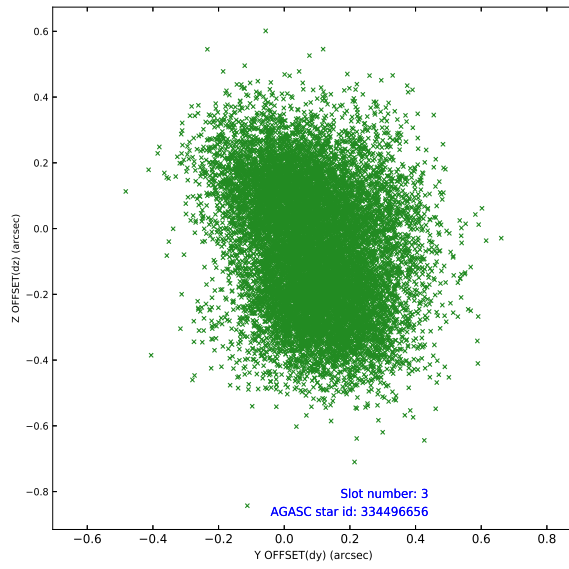


Slot Statistics

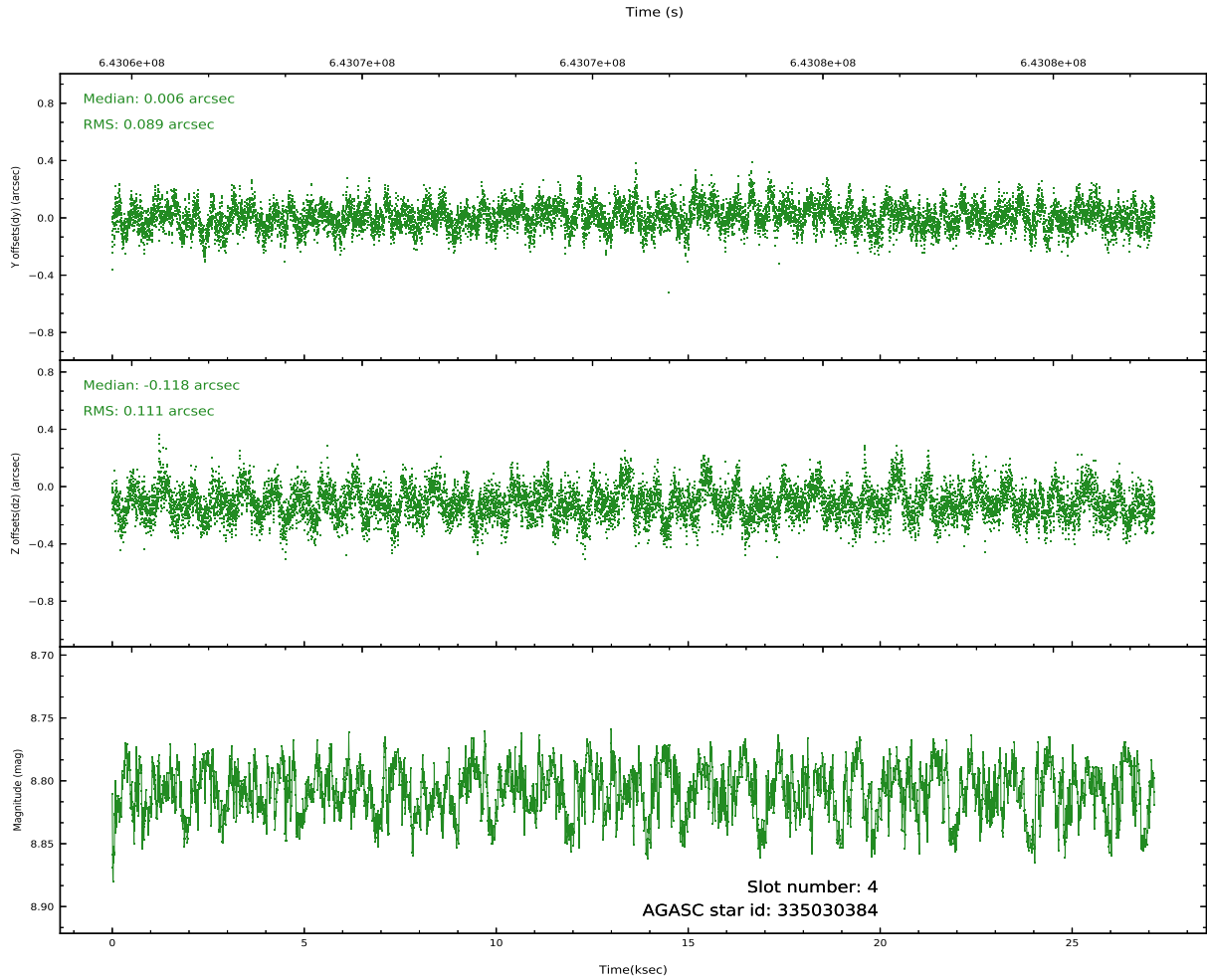
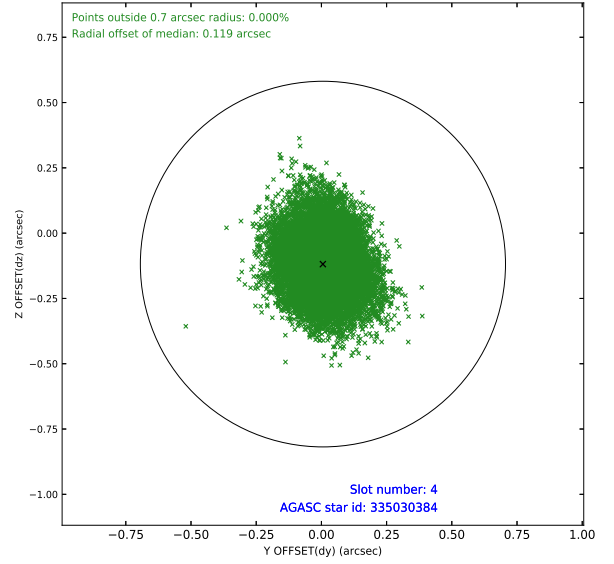
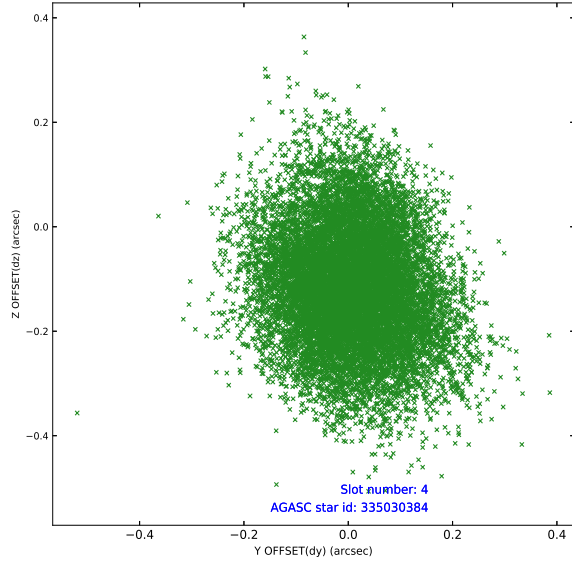
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.26	6620	1.000	0.066	-0.108	0.017	0.025	0.000000	0.000000	923.13	-844
1	FID		ACIS-I-2	7.15	6618	1.000	-0.062	0.100	0.012	0.021	0.000000	0.000000	-771.04	-850
2	FID		ACIS-I-6	7.27	6618	1.000	-0.094	0.075	0.012	0.018	0.000000	0.000000	388.74	1697
3	GUIDE	used	334496656	9.78	13130	1.000	0.085	-0.063	0.258	0.405	215.929218	35.031287	1870.99	505
4	GUIDE	used	335030384	8.81	13231	1.000	0.006	-0.118	0.152	0.247	216.806407	34.722197	-484.88	2054
5	GUIDE	used	335419120	9.58	13196	1.000	0.220	0.009	0.207	0.342	216.521861	35.833546	-349.04	-2030
6	GUIDE	used	335417968	9.30	13224	1.000	-0.120	0.040	0.199	0.320	217.358149	35.055285	-2292.31	1145
7	GUIDE	used	335414448	7.34	13238	1.000	-0.195	0.119	0.135	0.221	216.992261	35.577204	-1547.93	-884

2.4 Star Slots

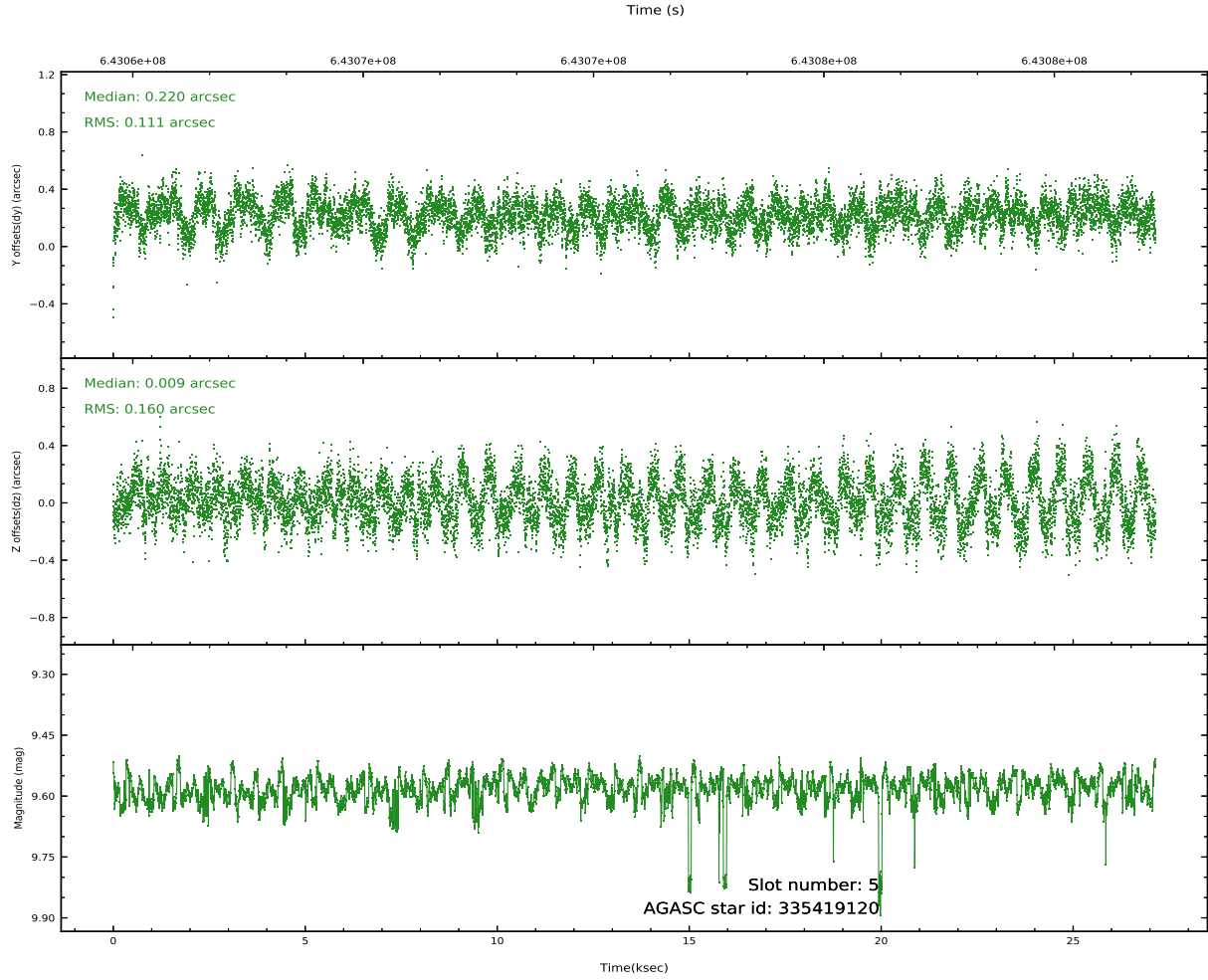
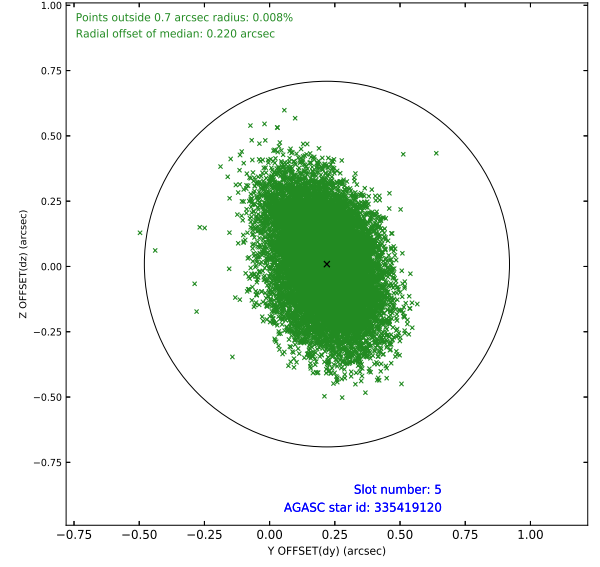
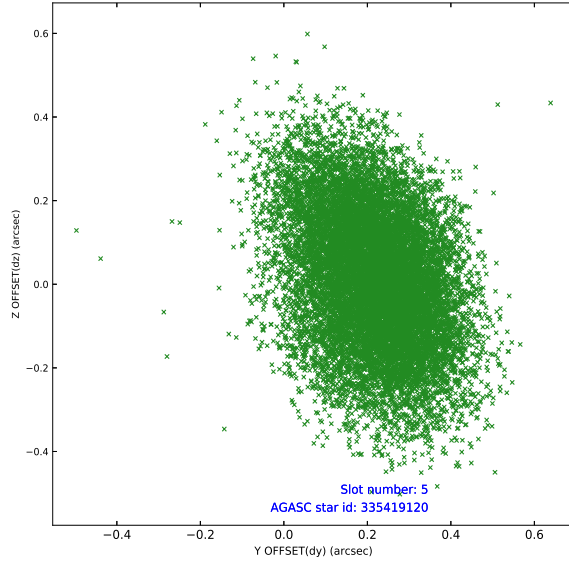
2.4.1 Slot 3



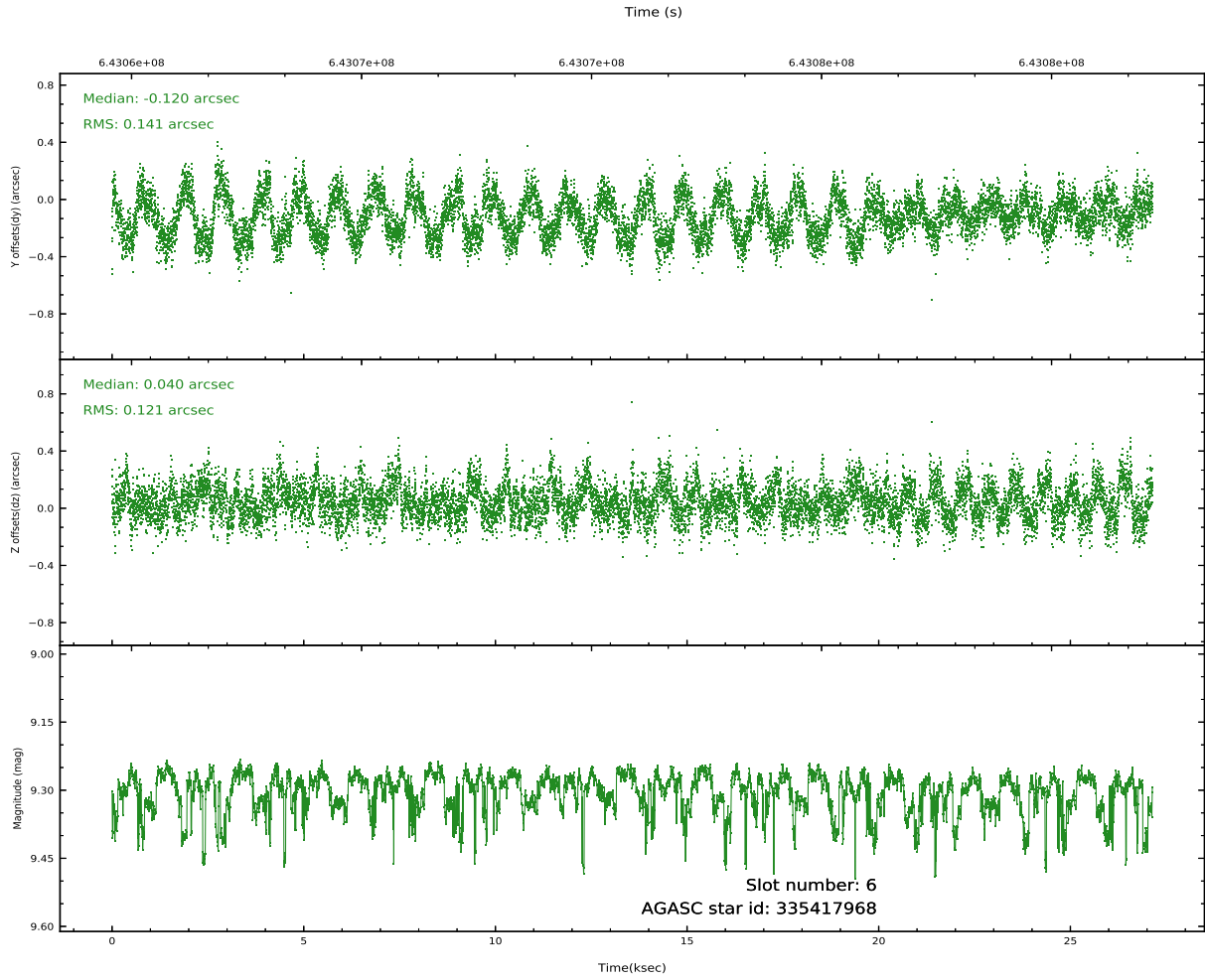
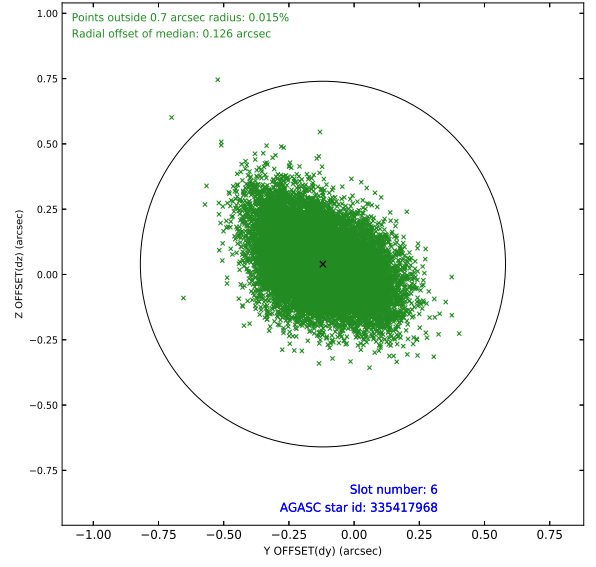
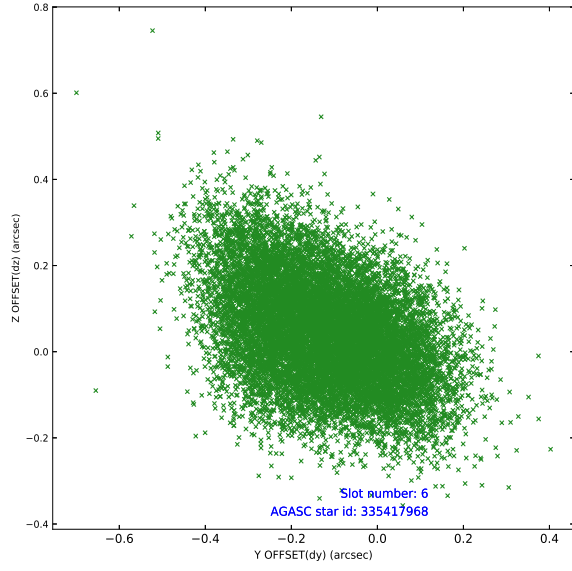
2.4.2 Slot 4



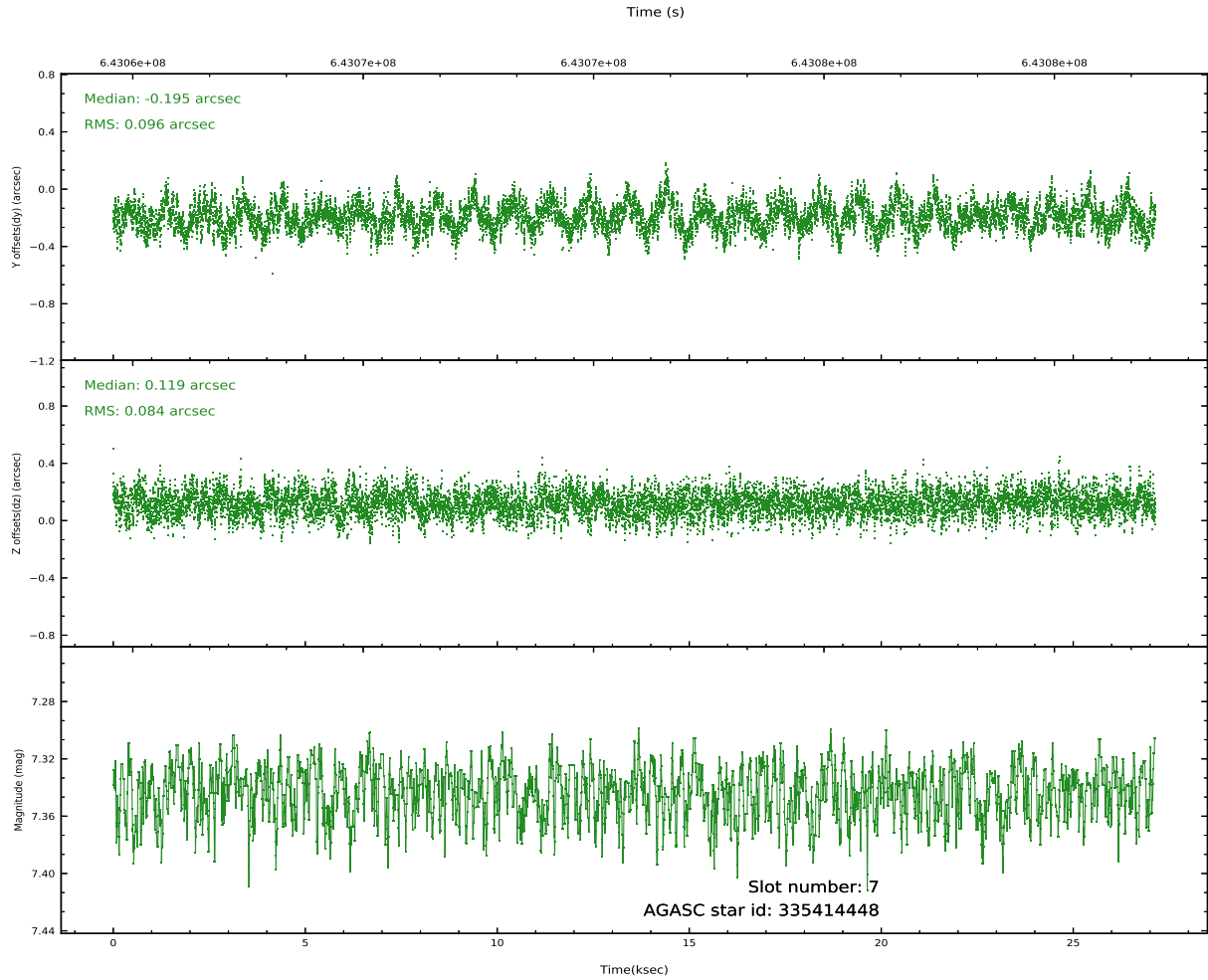
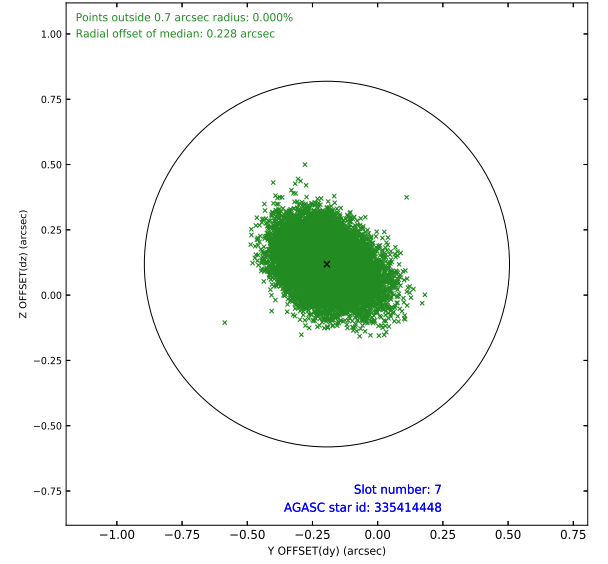
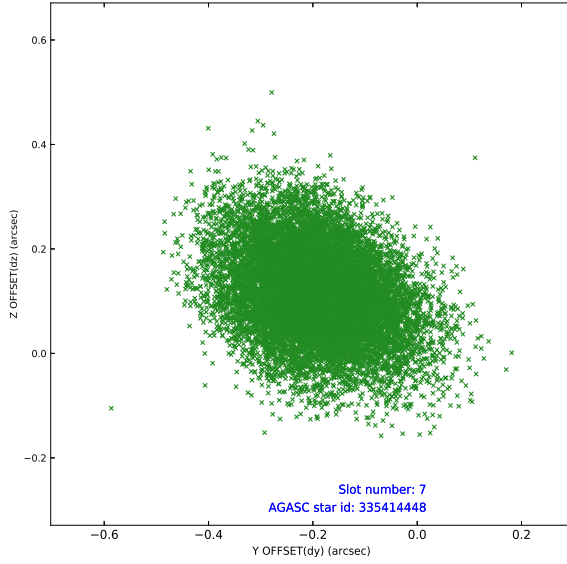
2.4.3 Slot 5



2.4.4 Slot 6

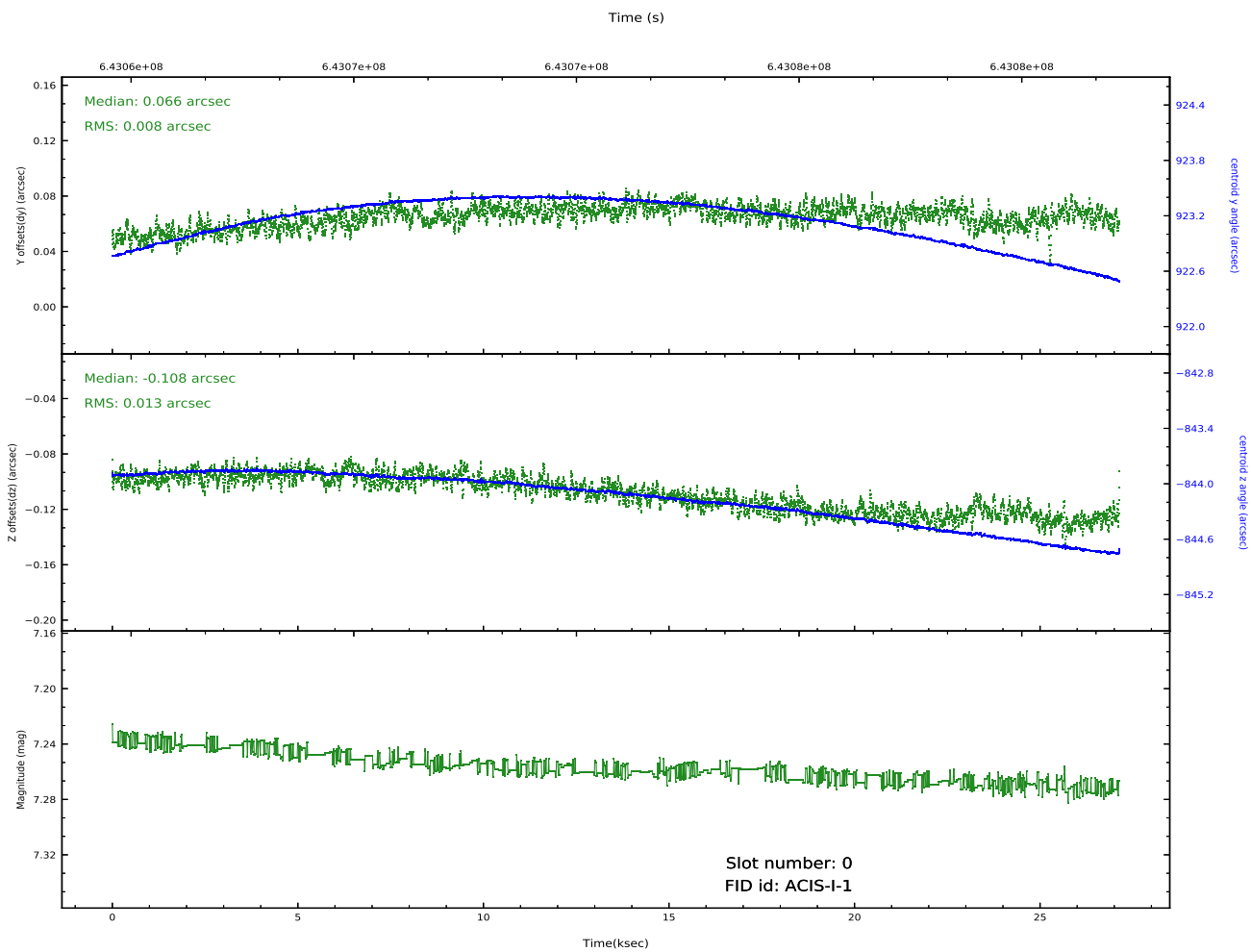
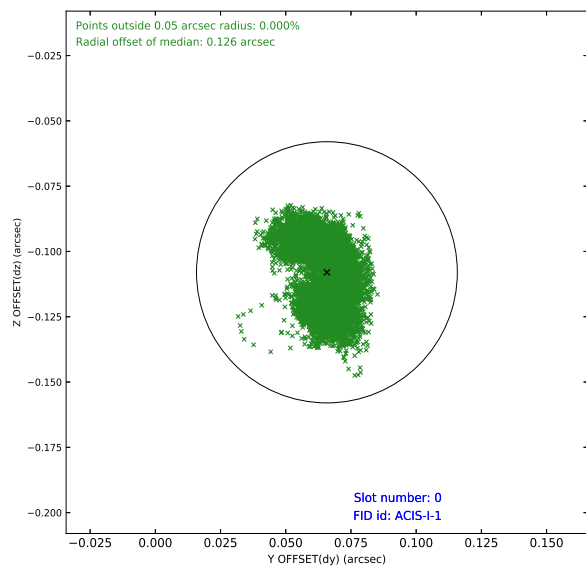
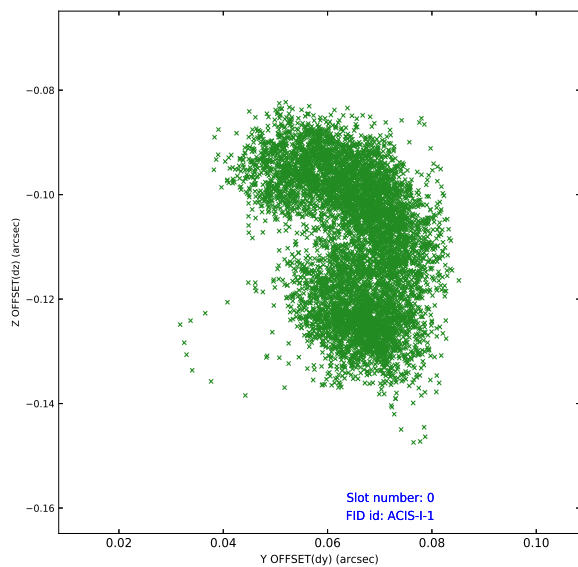


2.4.5 Slot 7

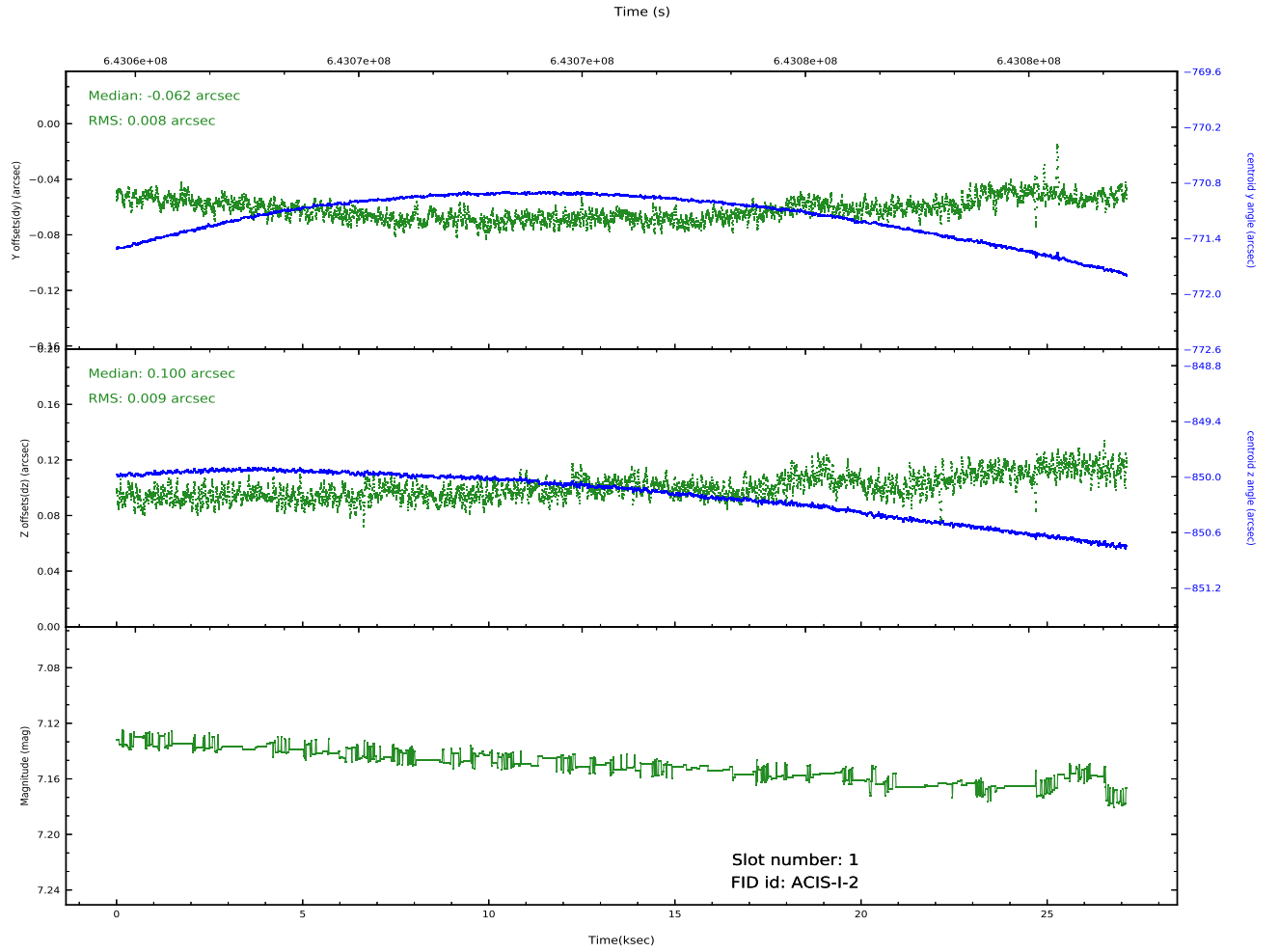
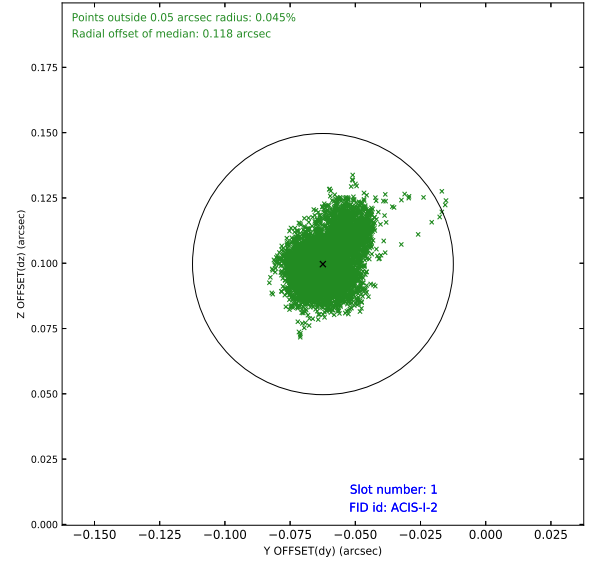
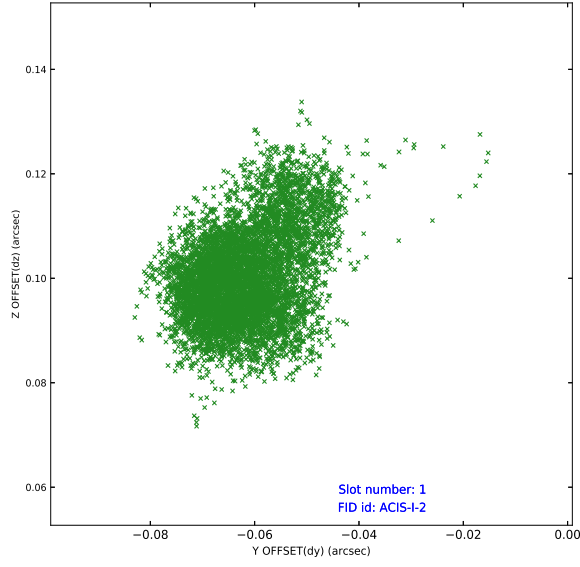


2.5 FID Slots

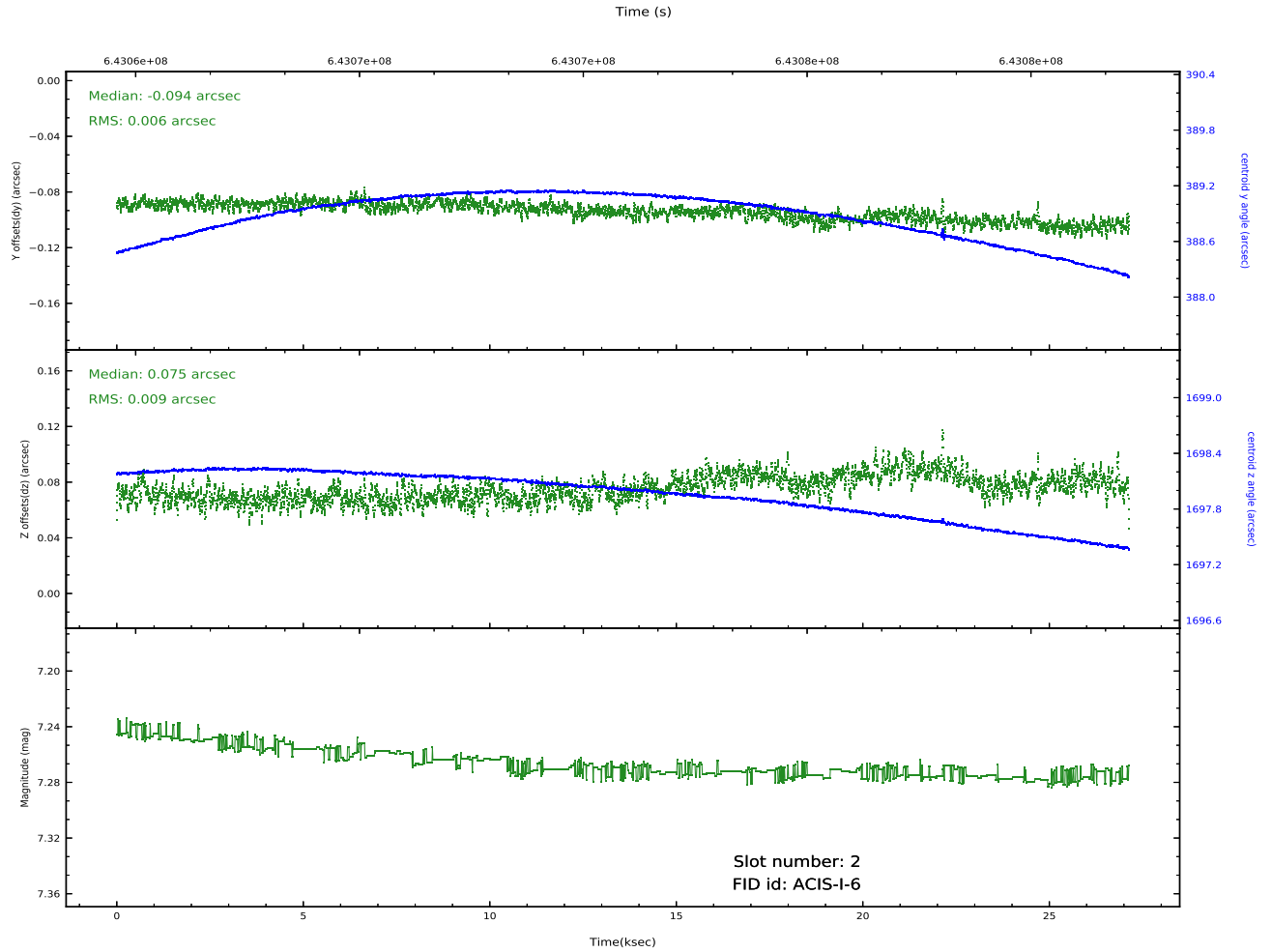
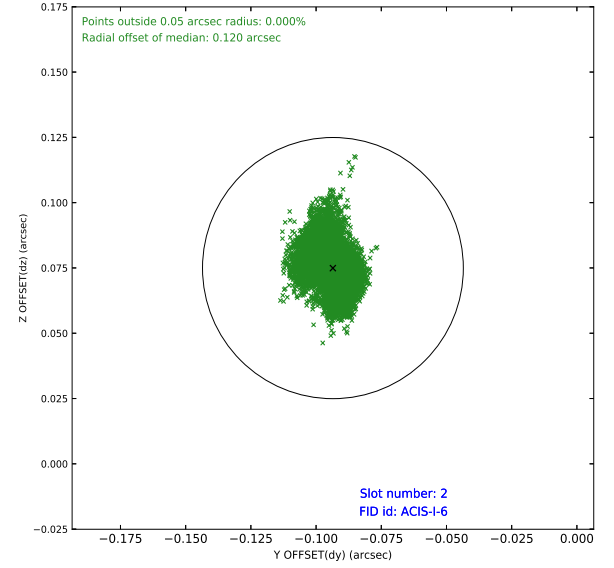
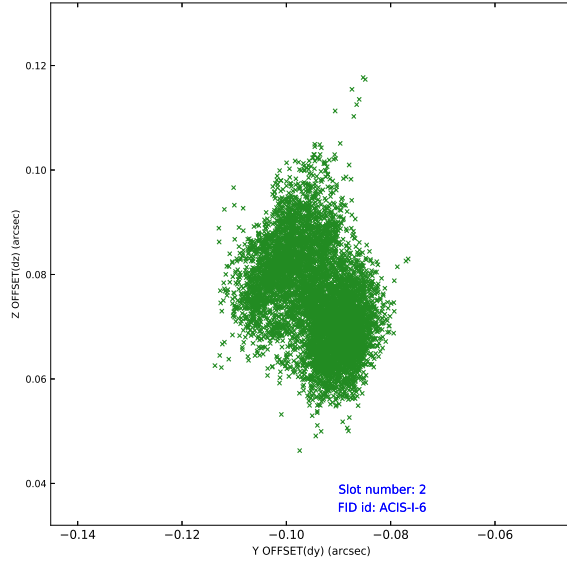
2.5.1 Slot 0



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	27.053700208187

A.2 Comments