

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19776 - L2 Version 2
Chandra X-Ray Center

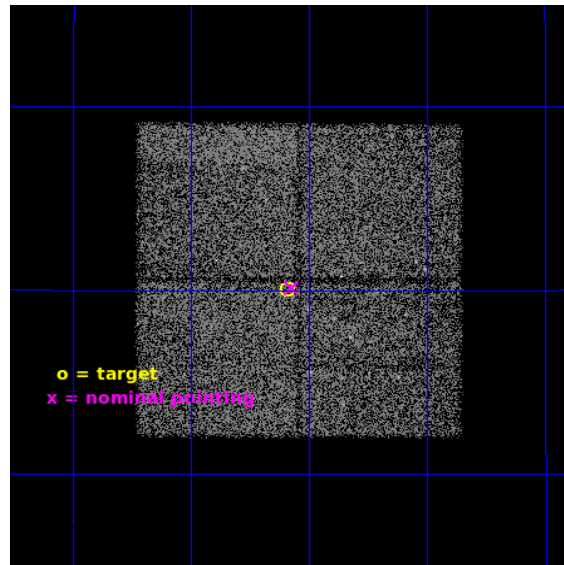
L2 Processing Date : Oct 25 2020

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1 Front

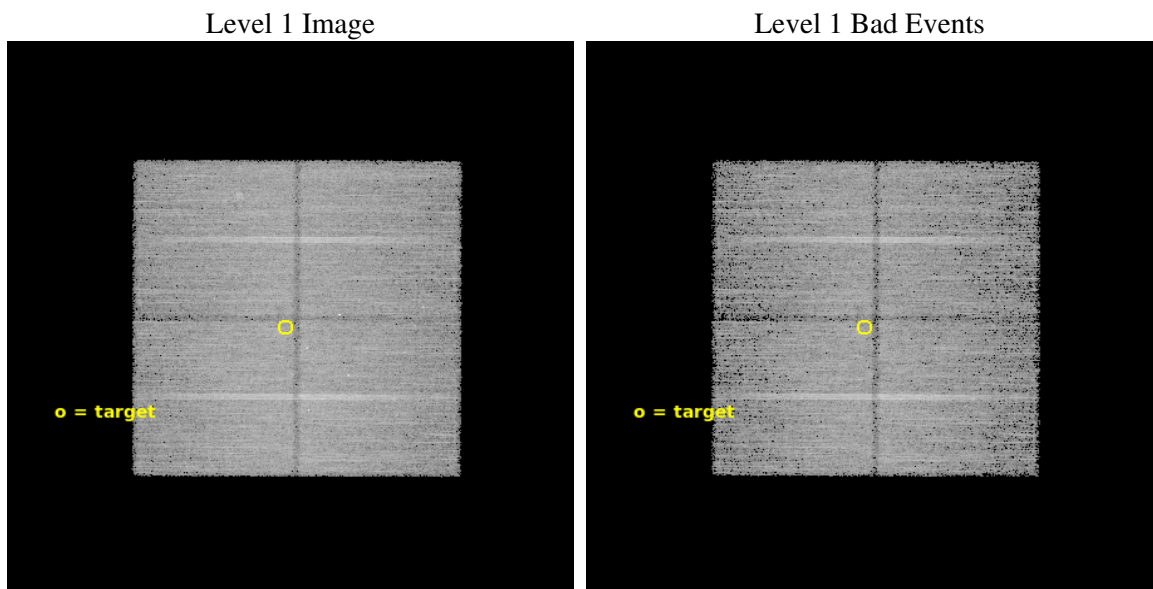
seq_num	901392	Sequence number
obs_id	19776	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field -- additional pointings	Proposal title
observer	Ralph Kraft	Principal investigator
object	XBootes	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.89754	Observer's specified target RA [deg]
dec_targ	34.667811	Observer's specified target Dec [deg]
ra_nom	217.8930082406	Nominal RA [deg]
dec_nom	34.669116886155	Nominal Dec [deg]
roll_nom	180.21276331643	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23082.600177646	Sum of GTIs [s]
livetime	22781.009013162	Livetime [s]
ontime0	23079.45913744	Sum of GTIs [s]
ontime1	23079.459147215	Sum of GTIs [s]
ontime2	23076.318117142	Sum of GTIs [s]
ontime3	23082.600177646	Sum of GTIs [s]
l2events	64405	Number of level 2 events



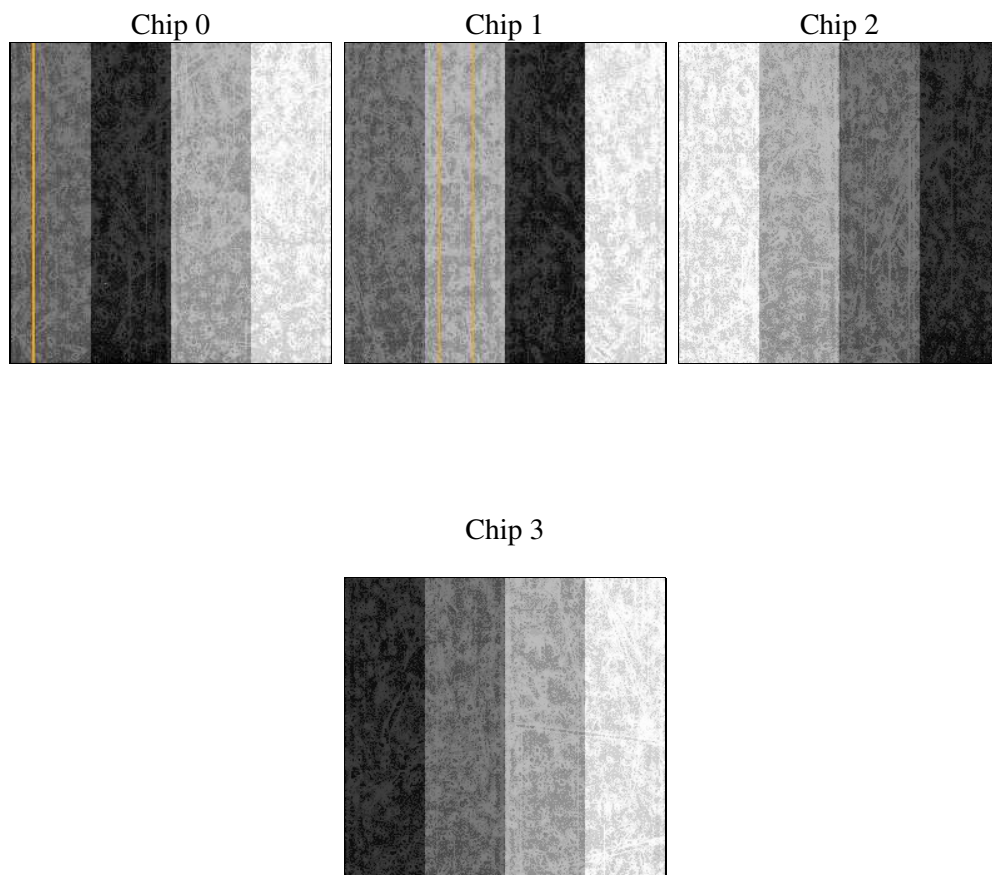
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	23082.600177646	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	23079.45913744	Sum of GTIs [s]
date	2020-10-25T15:36:45	Date and time of file creation	ontime1	23079.459147215	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	23076.318117142	Sum of GTIs [s]
			ontime3	23082.600177646	Sum of GTIs [s]
			l1events	641101	Number of level 1 events

2.1.4 Events

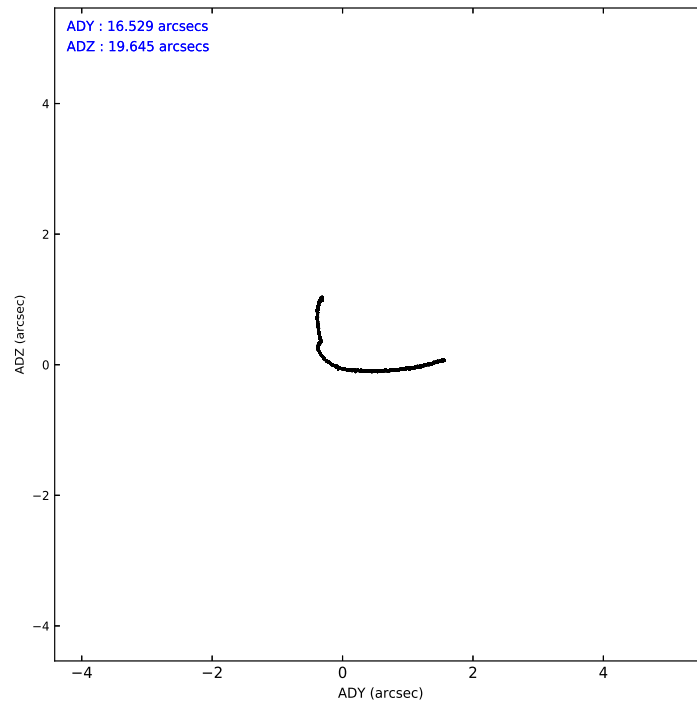
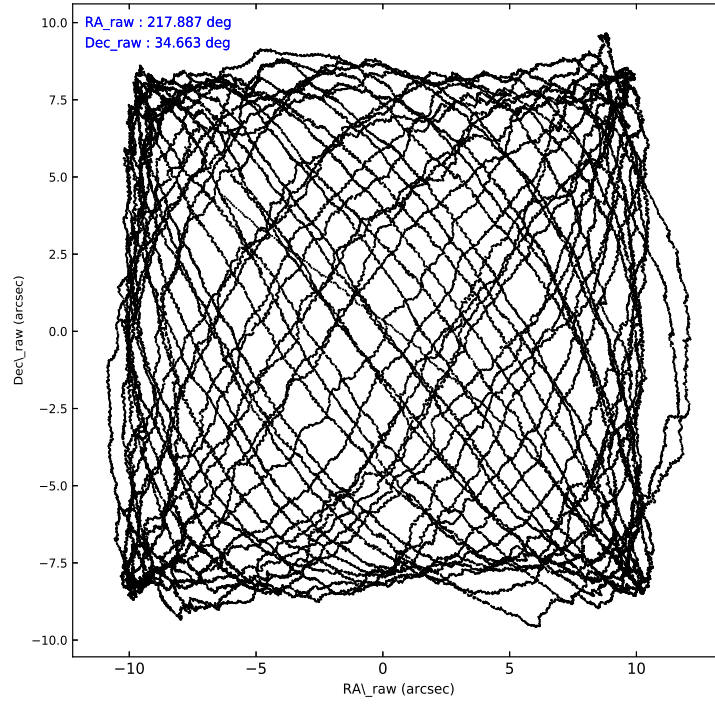
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	150558	157023	165303	168217
rejected events	131050	135718	146355	150154
rejected %	87%	86%	88%	89%

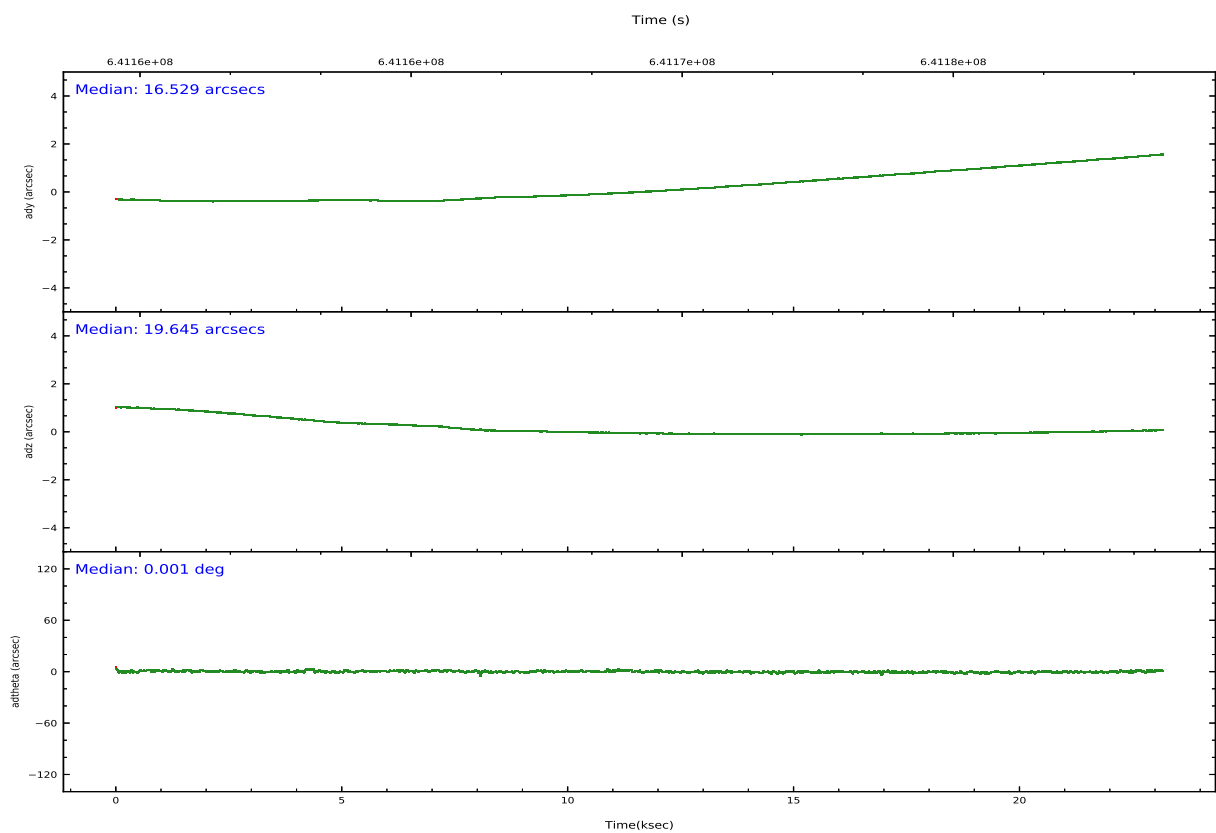
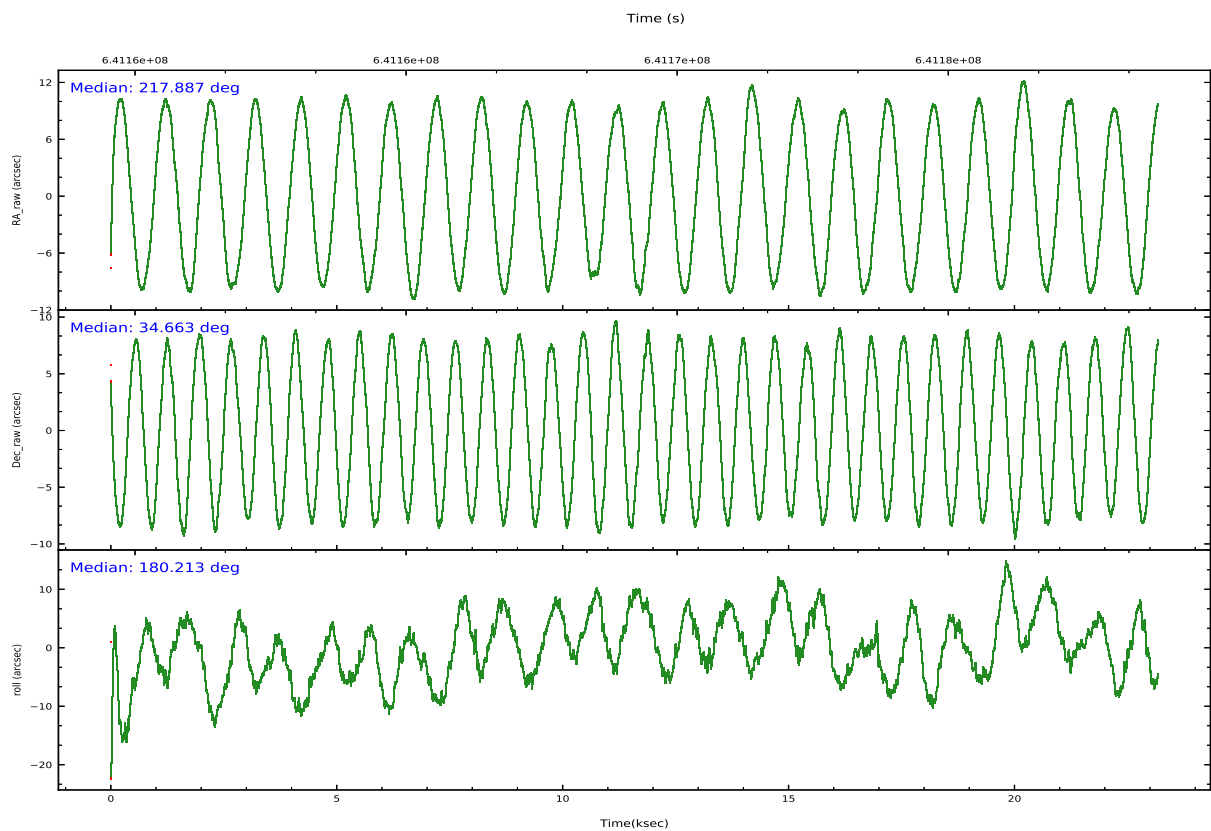
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	6879	7400	6970	6524
	4%	4%	4%	3%
grade 1 events	95	104	114	92
	0%	0%	0%	0%
grade 2 events	4766	5328	4631	3973
	3%	3%	2%	2%
grade 3 events	1940	2060	1842	1840
	1%	1%	1%	1%
grade 4 events	1880	2031	1817	1858
	1%	1%	1%	1%
grade 5 events	7323	7812	6856	8136
	4%	4%	4%	4%
grade 6 events	4047	4486	3689	3869
	2%	2%	2%	2%
grade 7 events	123628	127802	139384	141925
	82%	81%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-0123	ACIS-0123	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	217.915923	217.8930082406	CCD I2 on	Y	Y
[deg] Pointing Dec	34.677315	34.669116886155	CCD I3 on	Y	Y
[deg] Pointing Roll	179.989539	180.21276331643	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	O2	N
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	641157644.184000	641156517.52918	CCD S5 on	N	N
Observation start date	2018-04-26T19:19:35	2018-04-26T19:01:57	Number of optional ACIS chips dropped	2	2
[s] Observation end time (MET)	641180644.184000	641180799.26811	On-chip summing requested	N	N
Observation end date	2018-04-27T01:42:55	2018-04-27T01:46:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



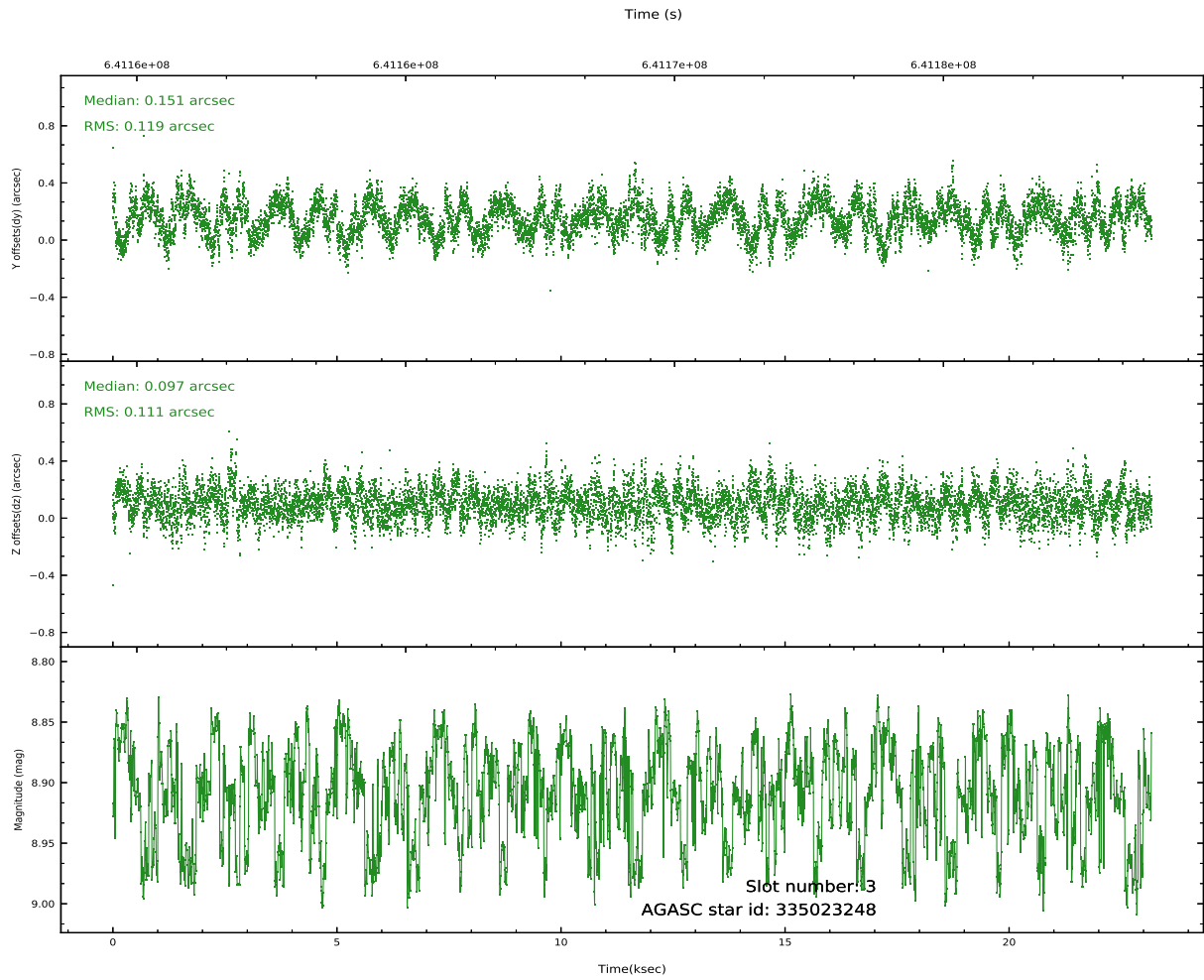
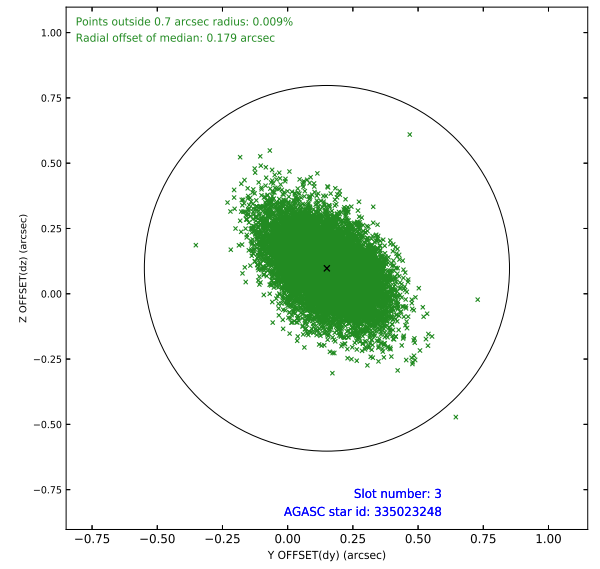
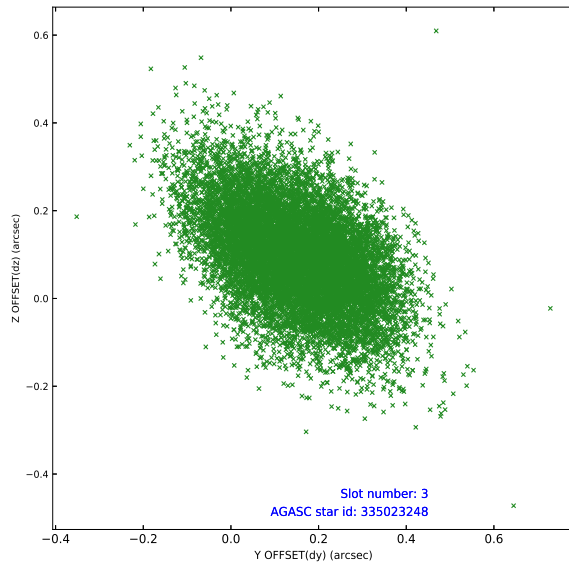


Slot Statistics

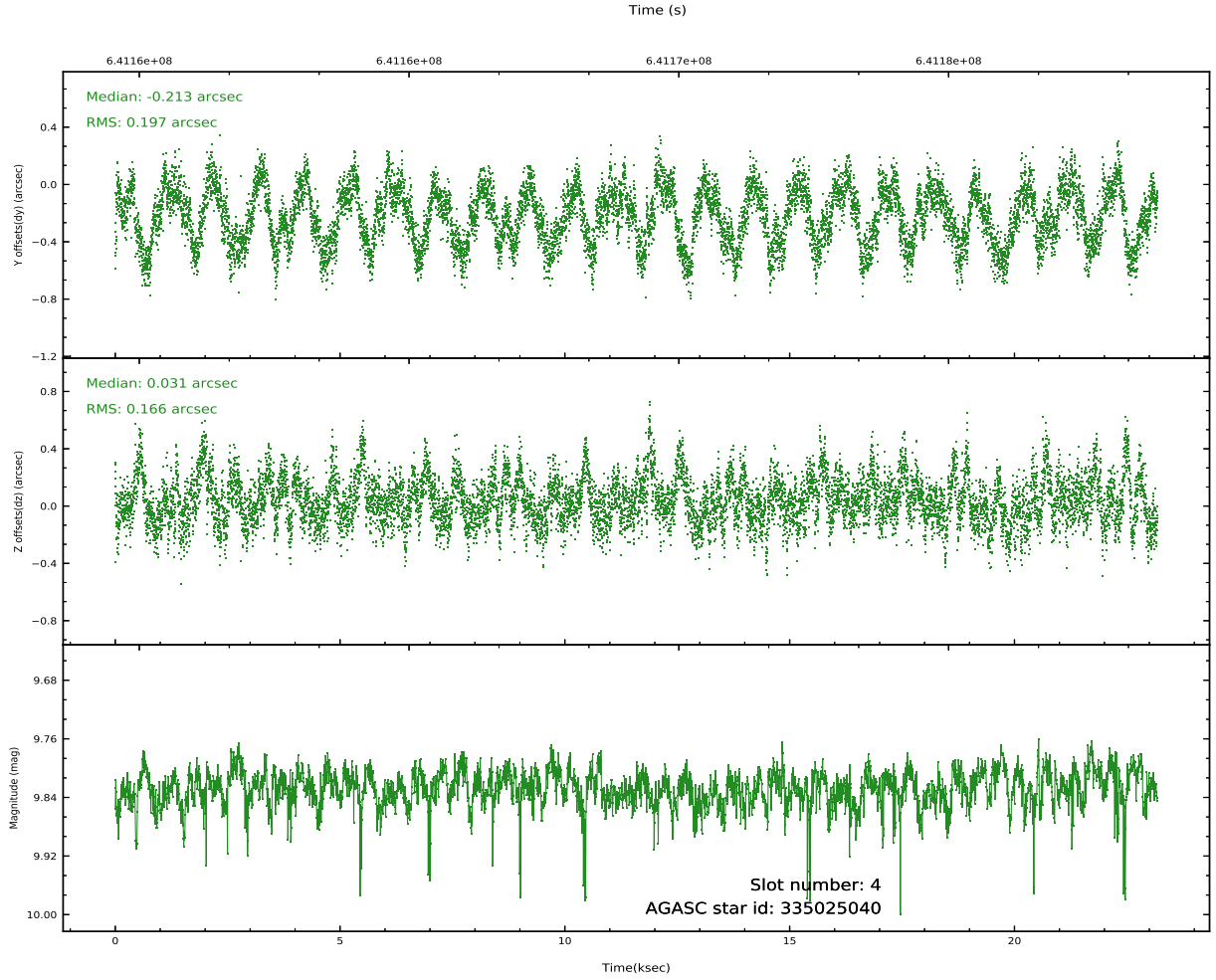
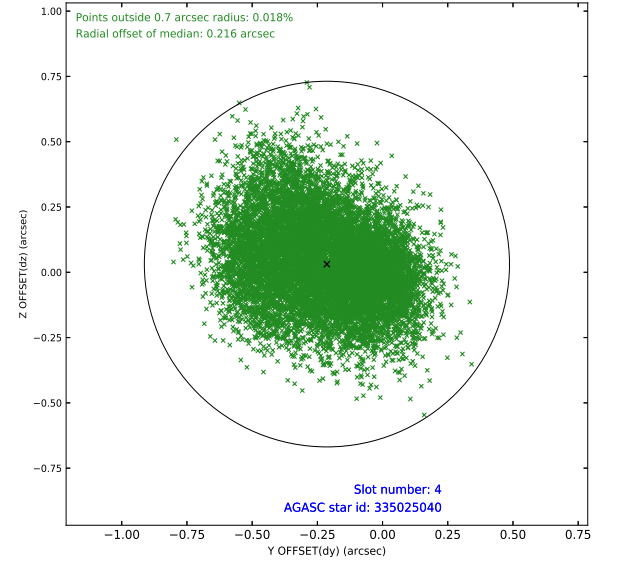
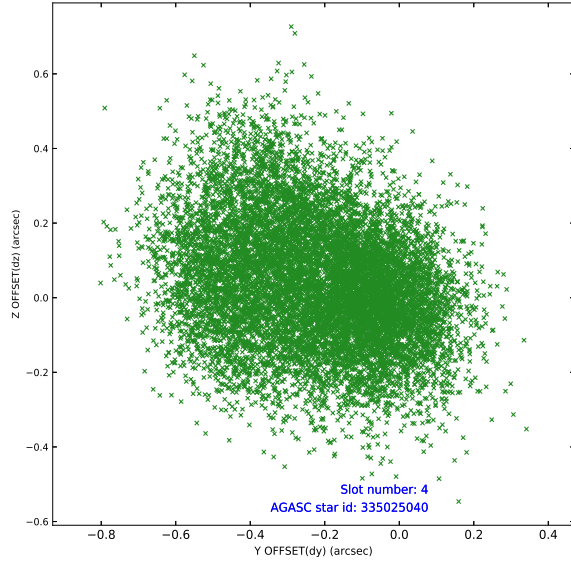
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	6.98	5654	1.000	-0.026	0.034	0.010	0.020	0.000000	0.000000	-771.60	-849
1	FID		ACIS-I-4	7.02	5653	1.000	0.024	-0.004	0.020	0.034	0.000000	0.000000	2142.56	1056
2	FID		ACIS-I-6	7.07	5654	1.000	-0.100	0.031	0.021	0.031	0.000000	0.000000	388.73	1698
3	GUIDE	used	335023248	8.91	11300	1.000	0.151	0.097	0.171	0.284	217.634832	34.944512	830.59	-962
4	GUIDE	used	335025040	9.83	11284	1.000	-0.213	0.031	0.280	0.428	218.601670	34.305240	-2038.73	1332
5	GUIDE	used	335028336	9.43	11288	1.000	0.099	-0.316	0.214	0.349	217.189840	34.665629	2150.29	34
6	GUIDE	used	335415168	9.71	11111	1.000	-0.021	-0.010	0.266	0.443	217.681296	35.301767	692.98	-2248
7	GUIDE	used	335417968	9.30	11281	1.000	-0.017	0.209	0.189	0.313	217.358149	35.055285	1645.27	-1364

2.4 Star Slots

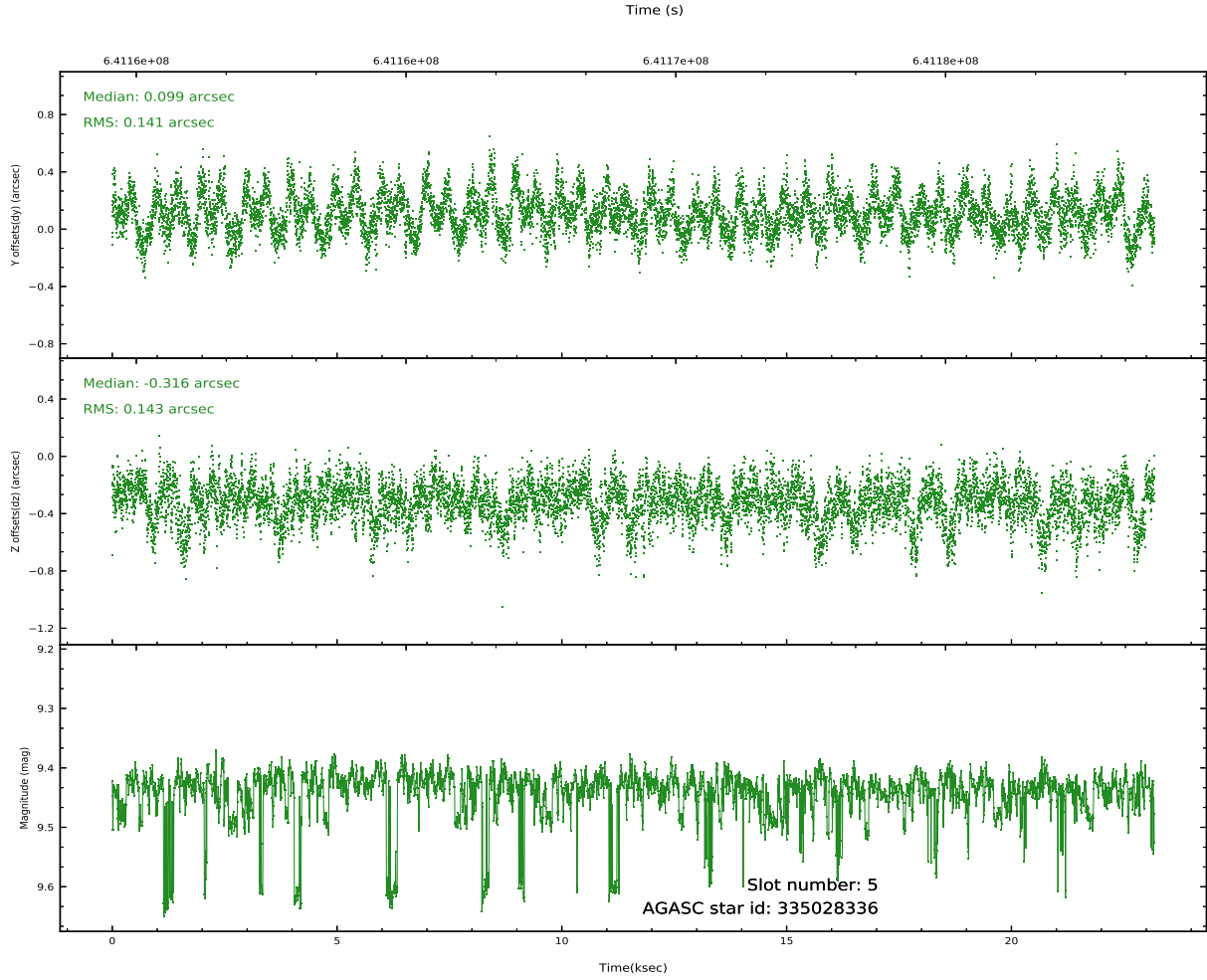
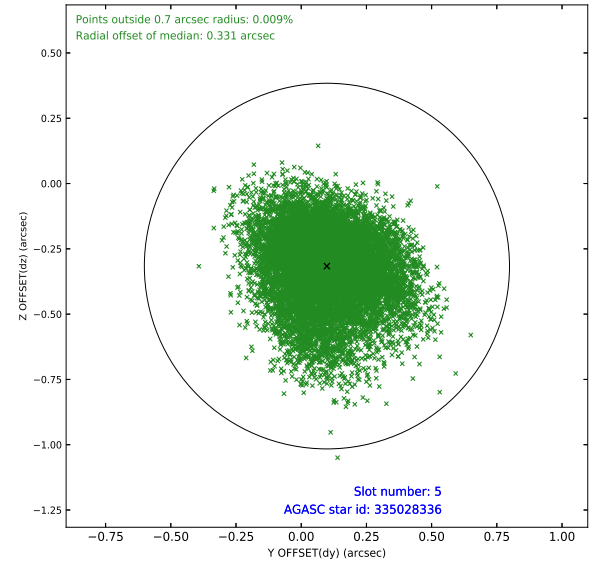
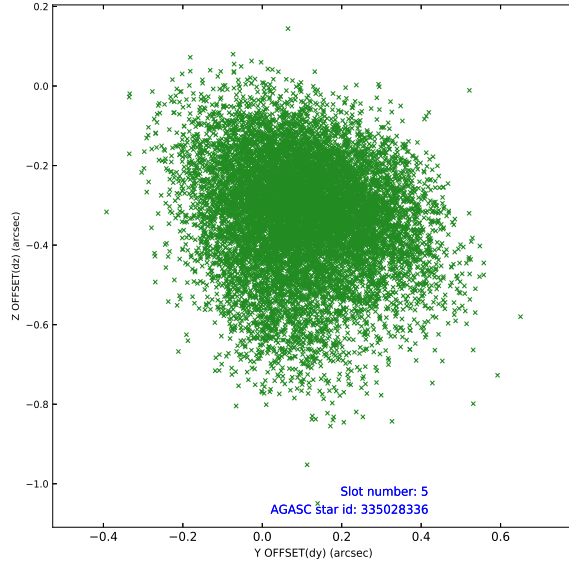
2.4.1 Slot 3



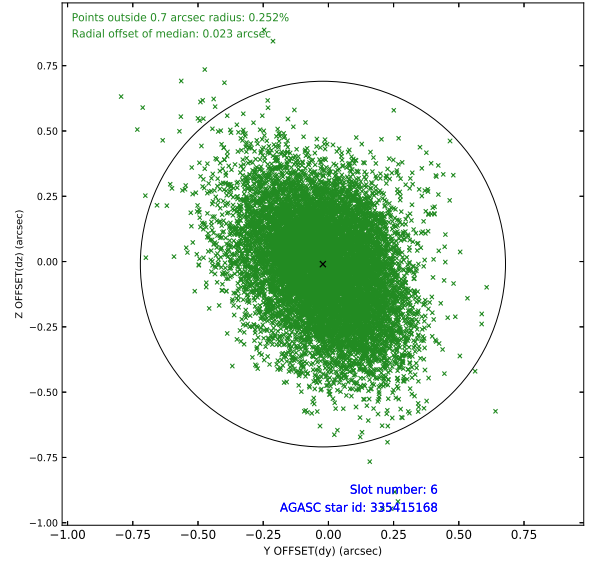
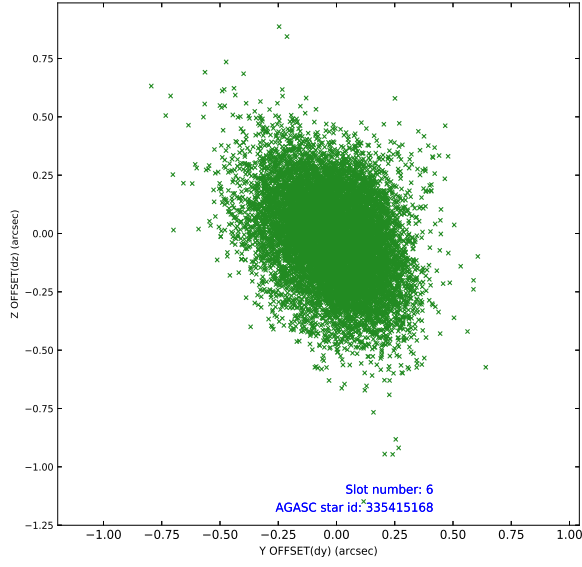
2.4.2 Slot 4



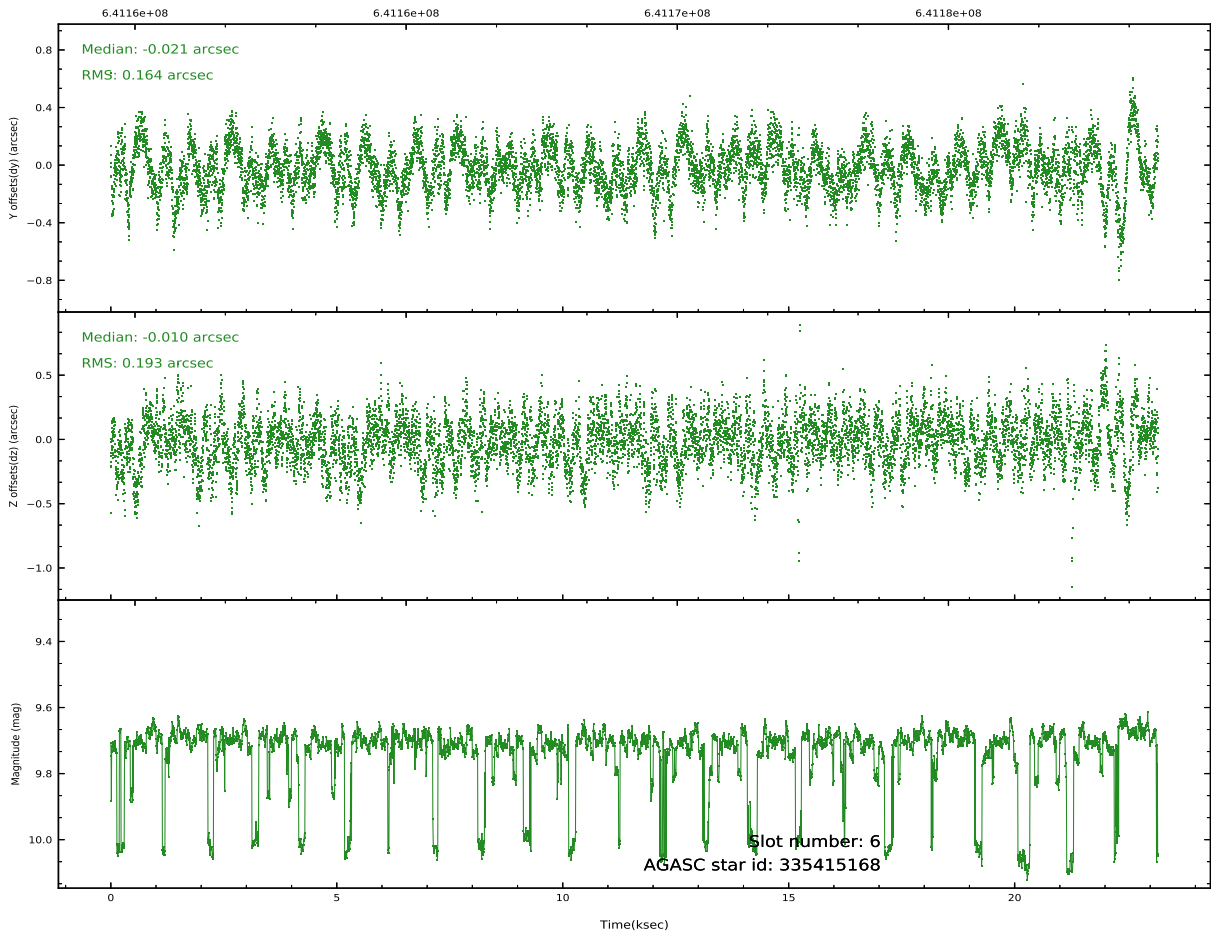
2.4.3 Slot 5



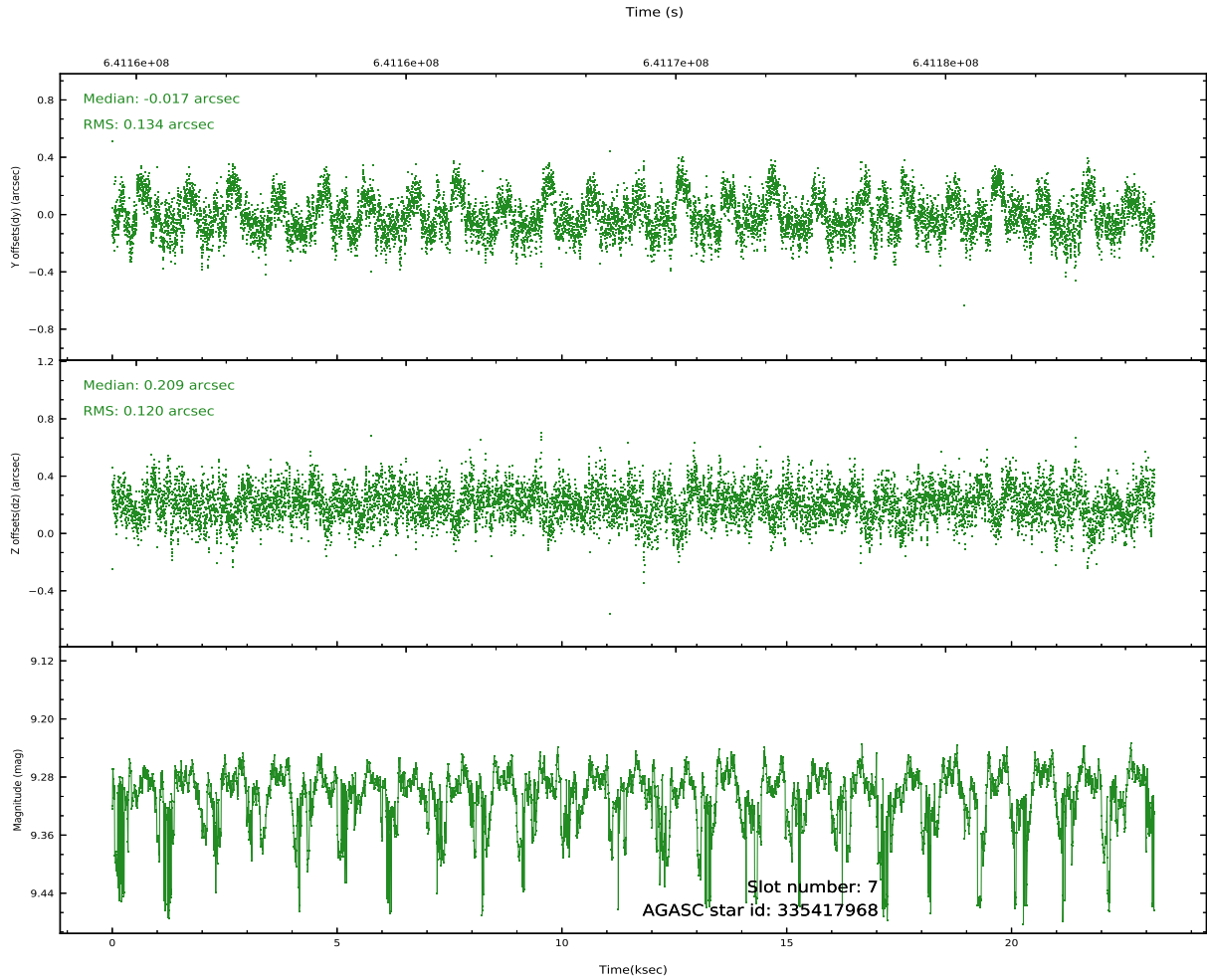
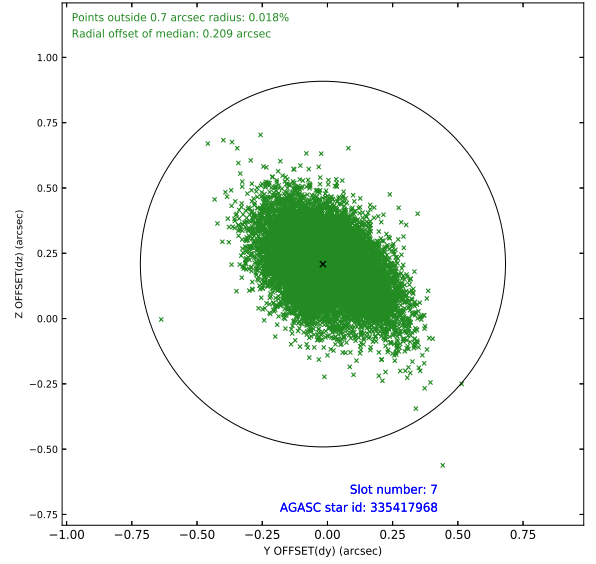
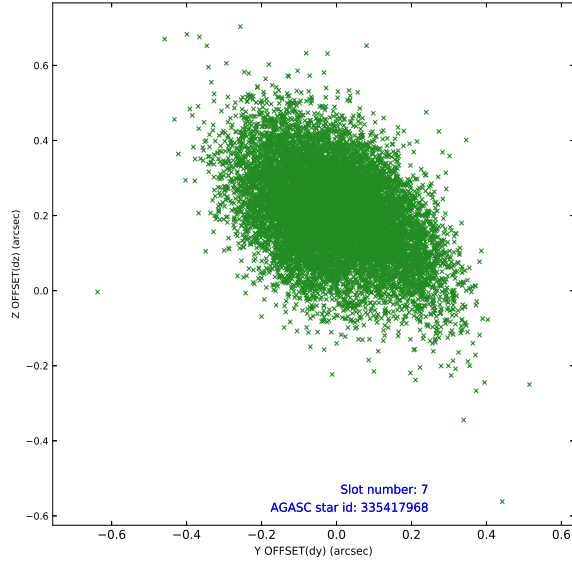
2.4.4 Slot 6



Time (s)

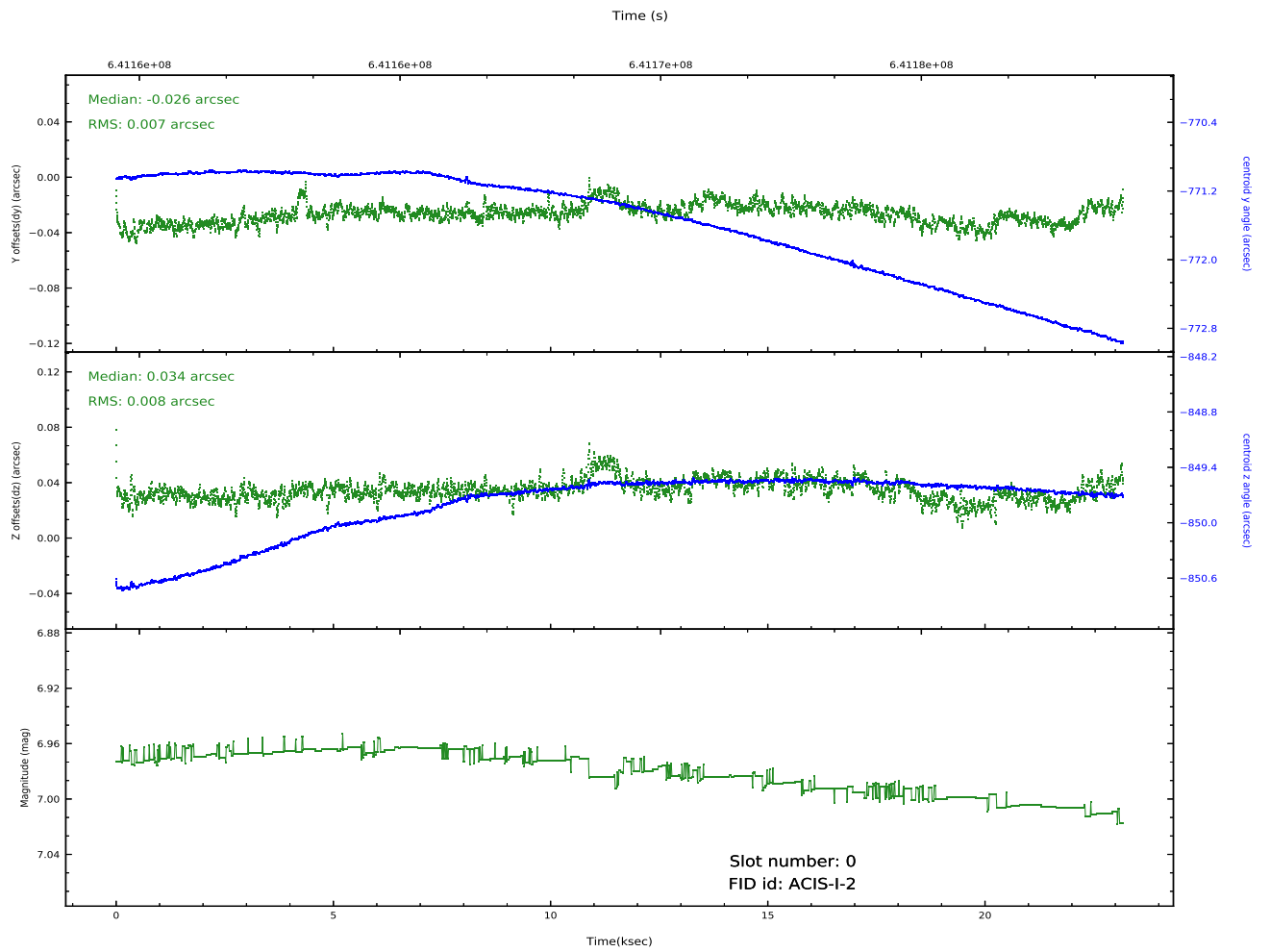
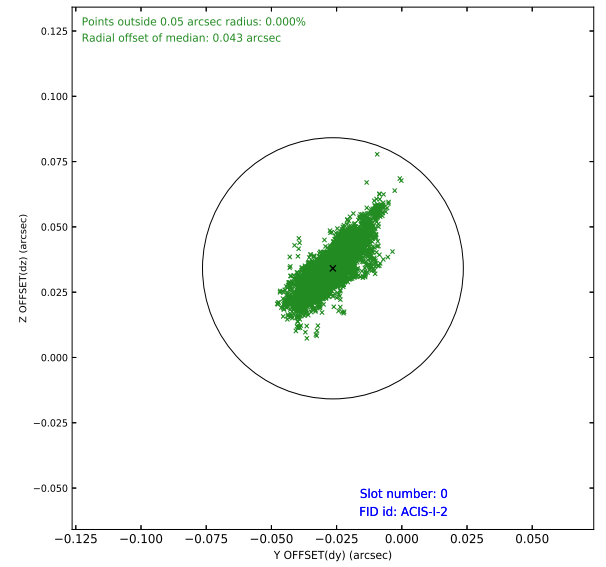
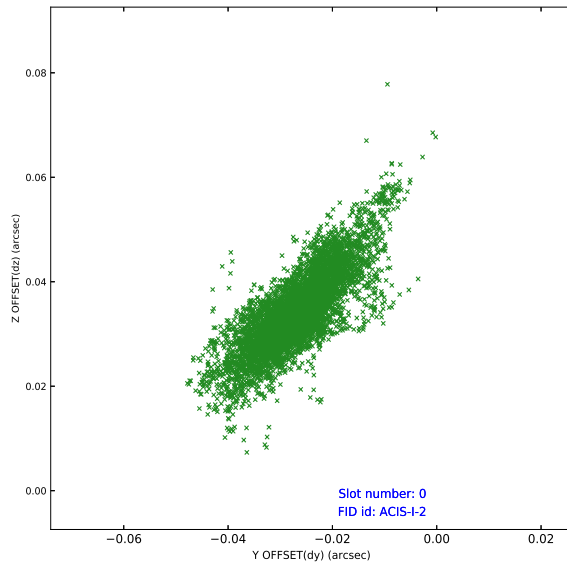


2.4.5 Slot 7

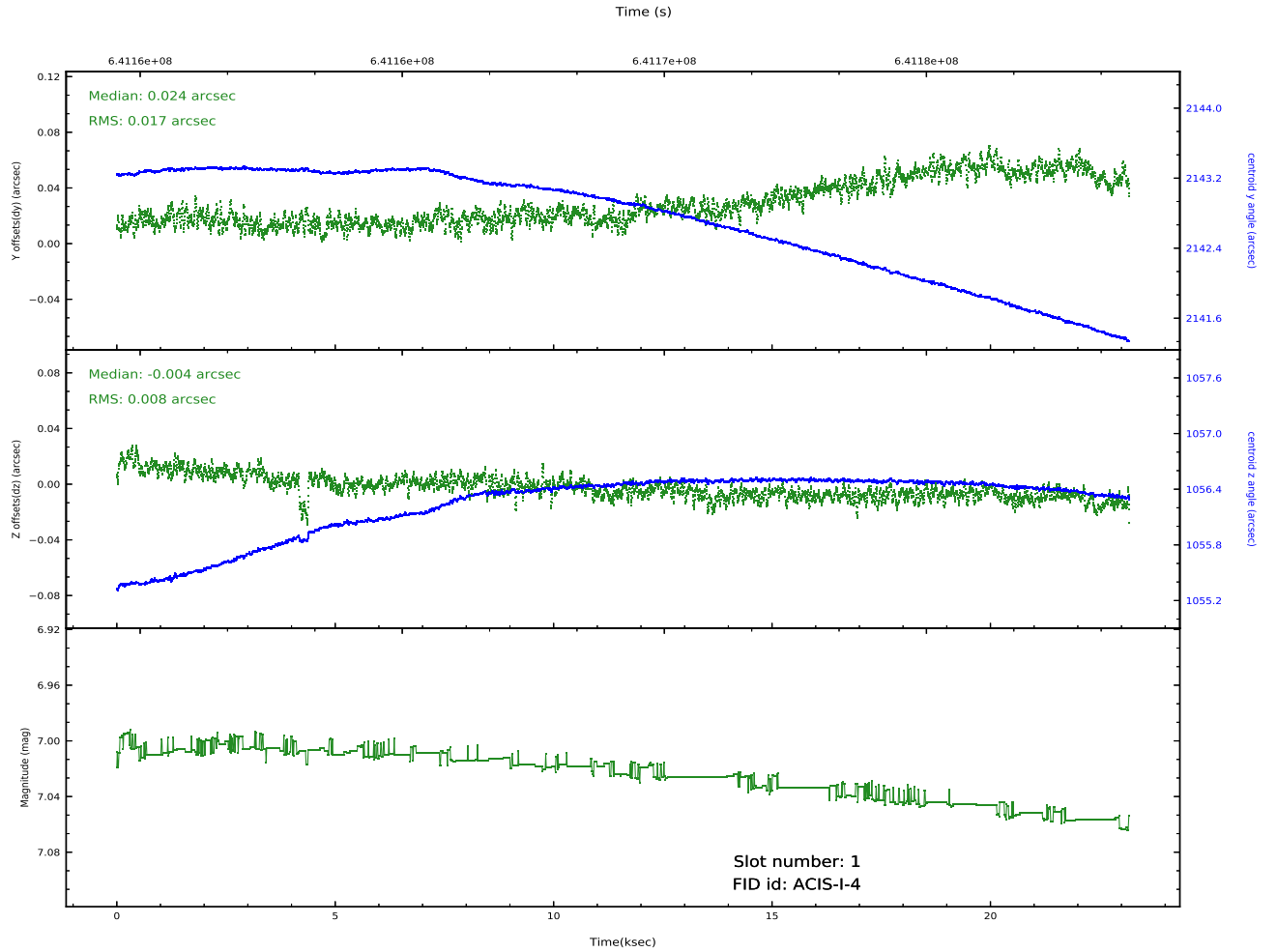
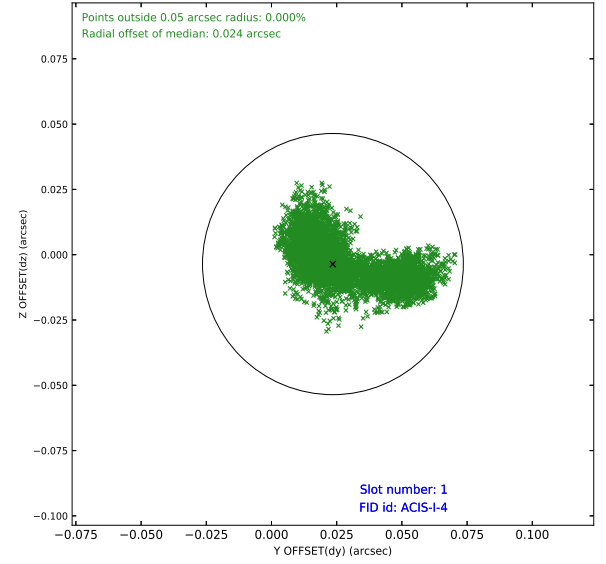
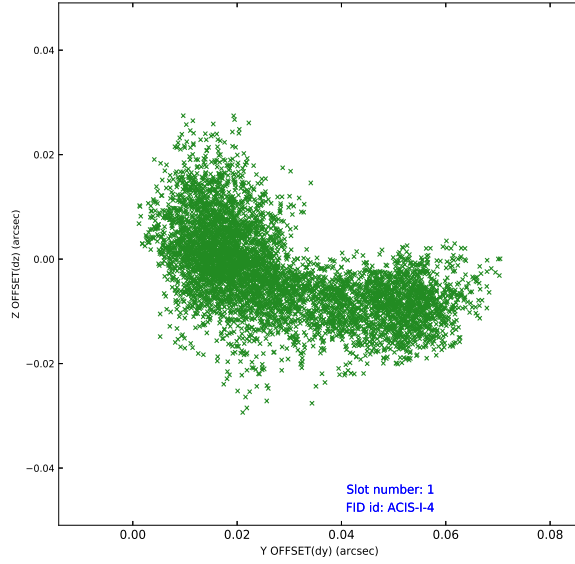


2.5 FID Slots

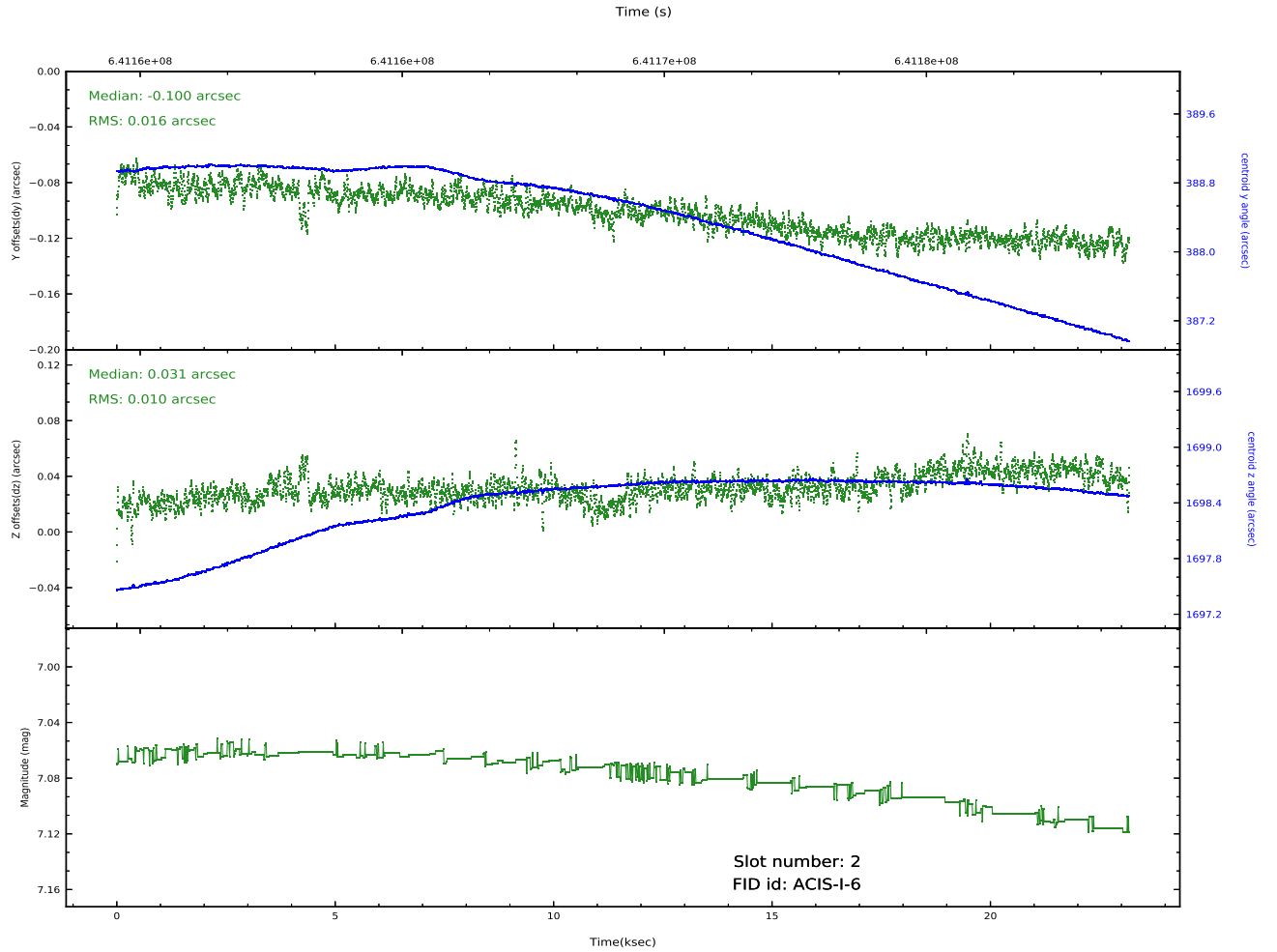
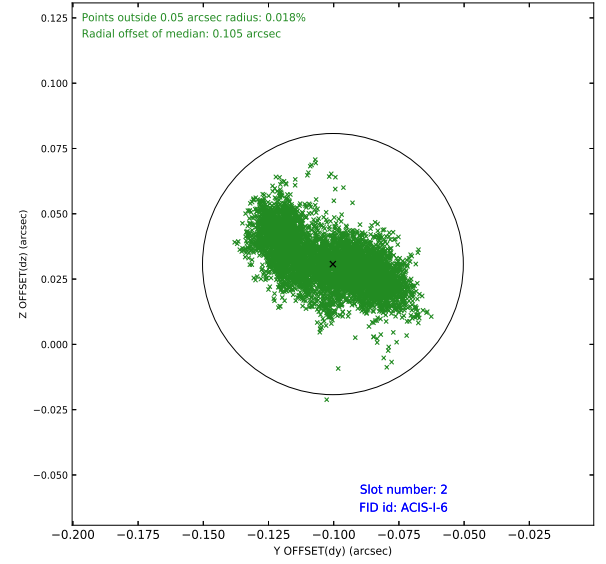
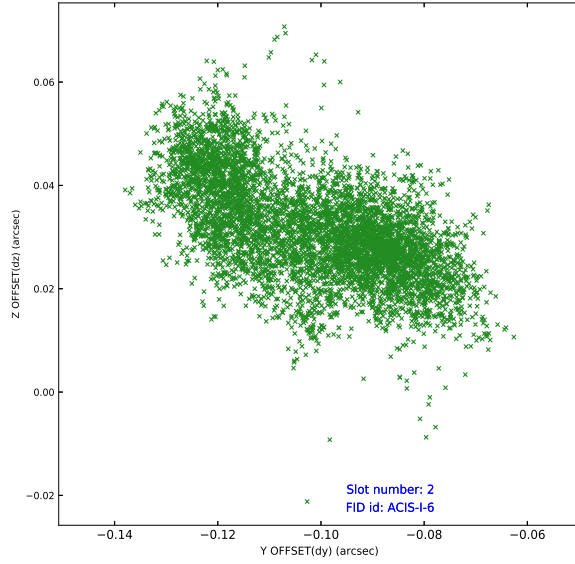
2.5.1 Slot 0



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)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.082600177646

A.2 Comments

Two optional chips were dropped.