

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19679 - L2 Version 2
Chandra X-Ray Center

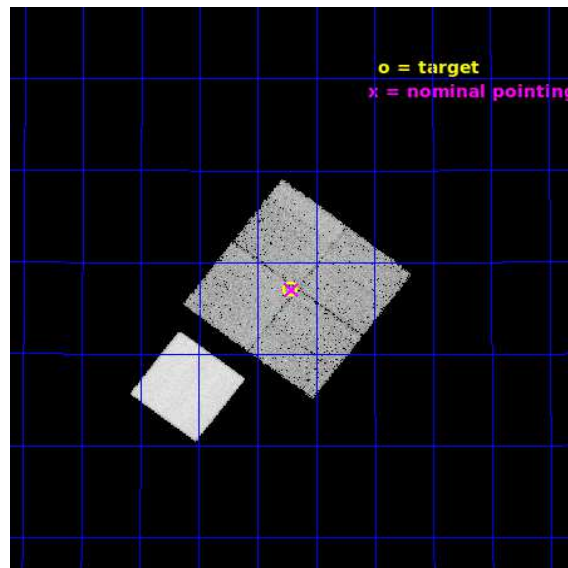
L2 Processing Date : Oct 26 2020

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1 Front

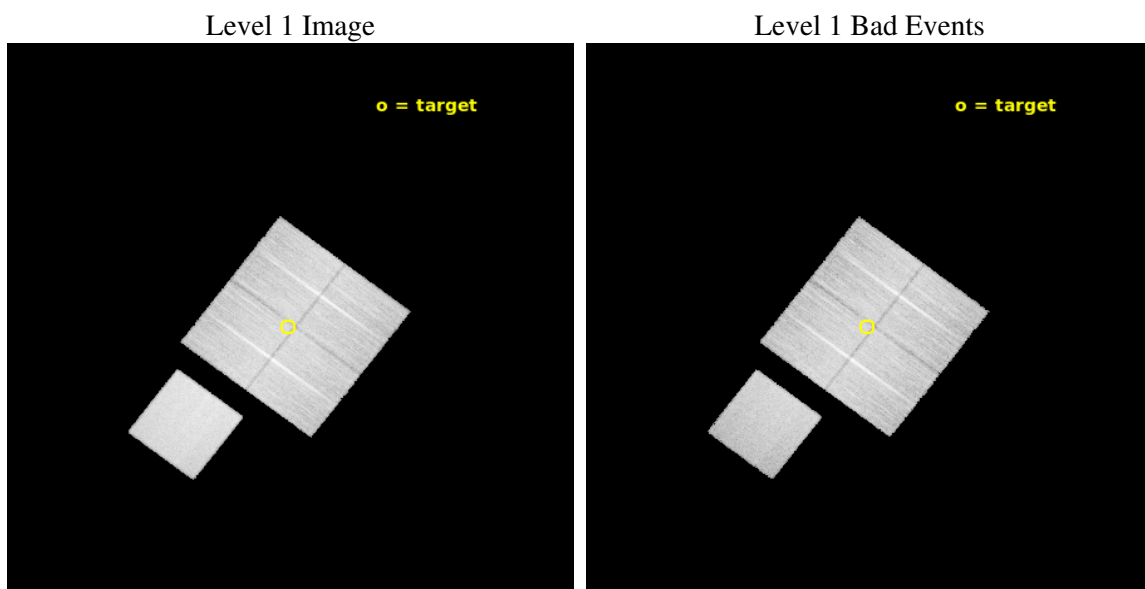
seq_num	901386	Sequence number
obs_id	19679	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.55631	Observer's specified target RA [deg]
dec_targ	35.450959	Observer's specified target Dec [deg]
ra_nom	217.55158654196	Nominal RA [deg]
dec_nom	35.45043924144	Nominal Dec [deg]
roll_nom	217.20537550176	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23054.391923666	Sum of GTIs [s]
livetime	22753.169320787	Livetime [s]
ontime0	23057.409793615	Sum of GTIs [s]
ontime1	23057.450833678	Sum of GTIs [s]
ontime2	23057.491873622	Sum of GTIs [s]
ontime3	23054.391923666	Sum of GTIs [s]
ontime7	23057.573953629	Sum of GTIs [s]
l2events	156322	Number of level 2 events



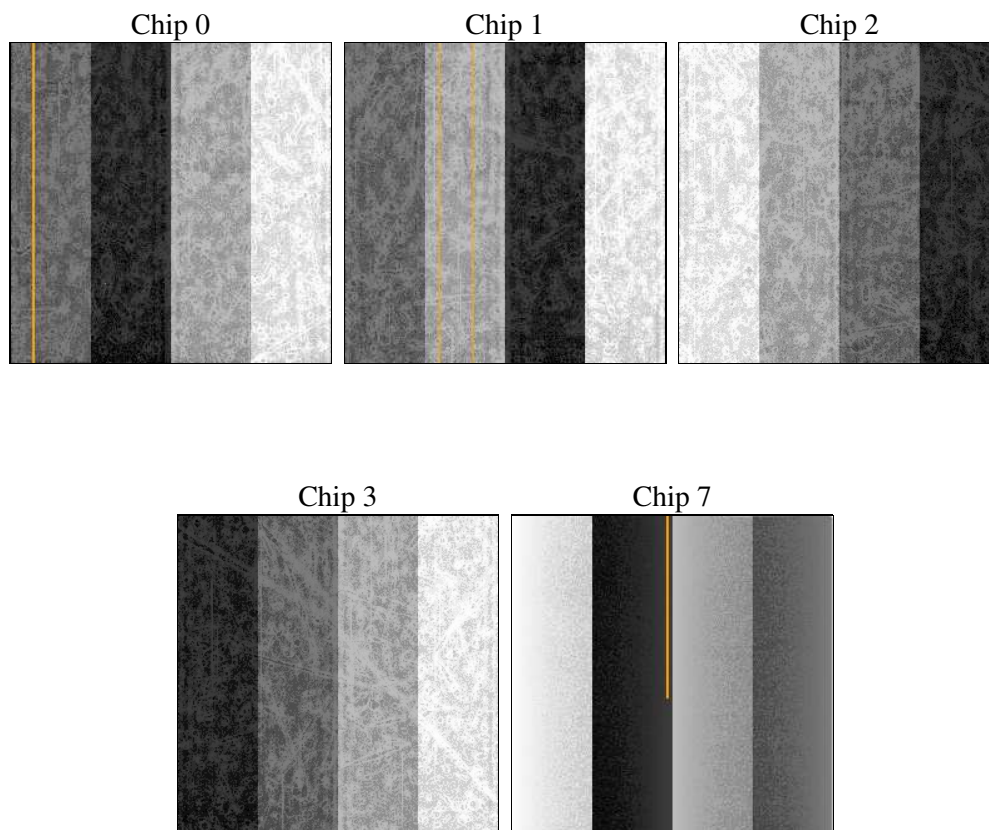
2 OBI

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	23054.391923666	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	23057.409793615	Sum of GTIs [s]
date	2020-10-26T11:03:04	Date and time of file creation	ontime1	23057.450833678	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	23057.491873622	Sum of GTIs [s]
			ontime3	23054.391923666	Sum of GTIs [s]
			ontime7	23057.573953629	Sum of GTIs [s]
			l1events	860833	Number of level 1 events

2.1.4 Events

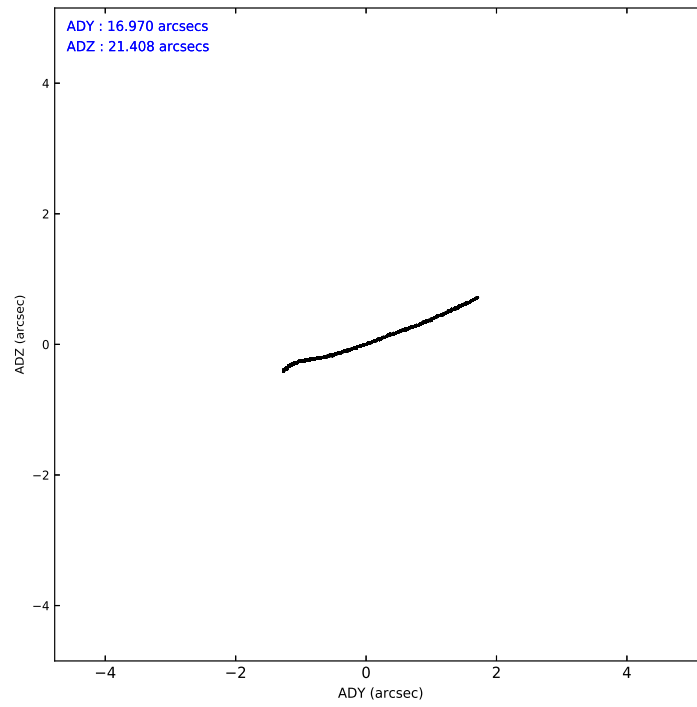
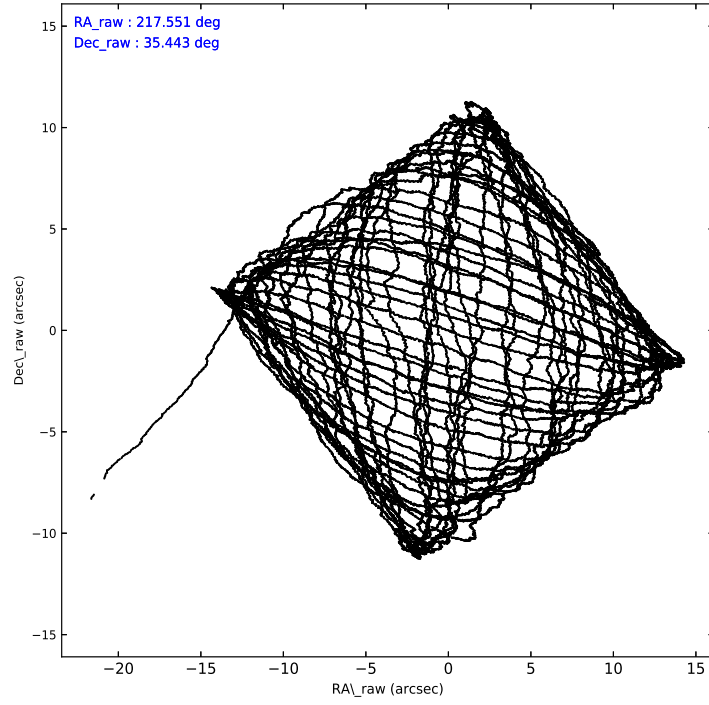
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	151398	159584	165203	165663	218985
rejected events	132343	138496	146359	147624	123354
rejected %	87%	86%	88%	89%	56%

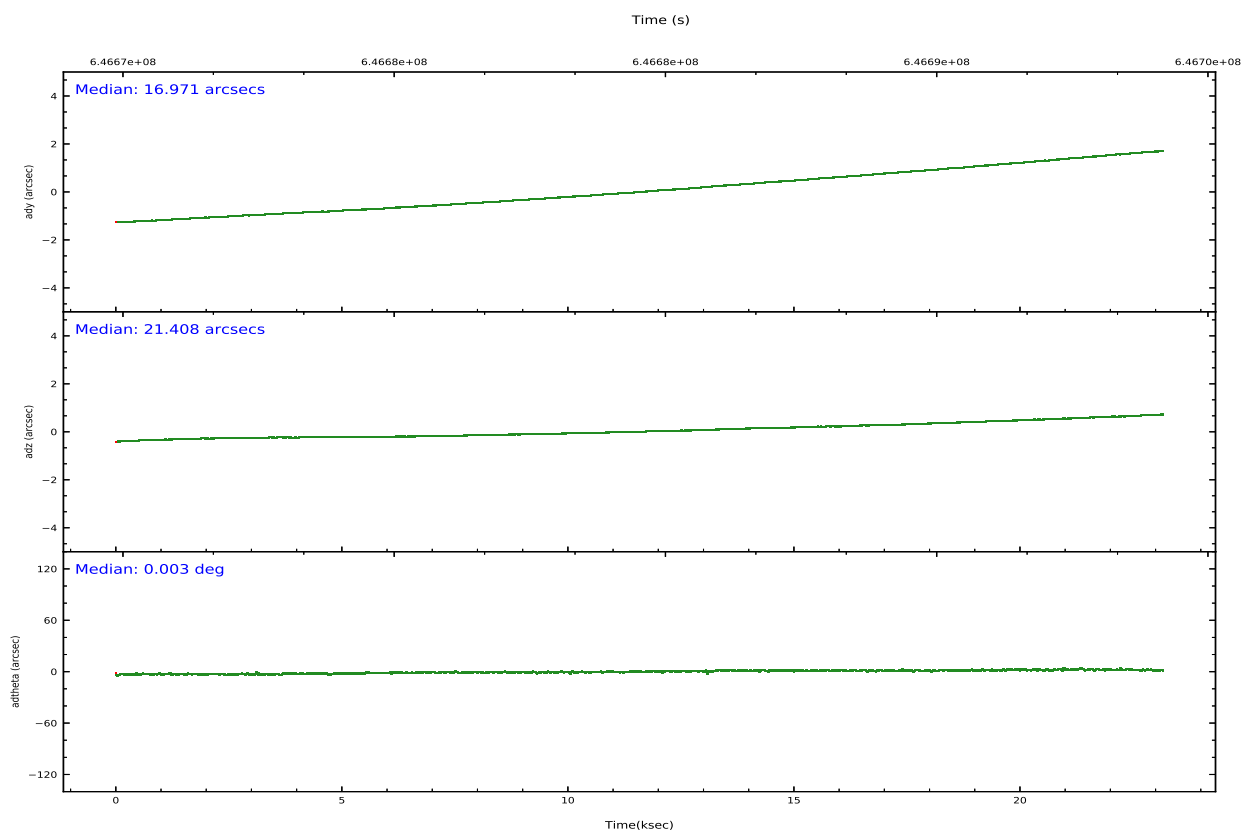
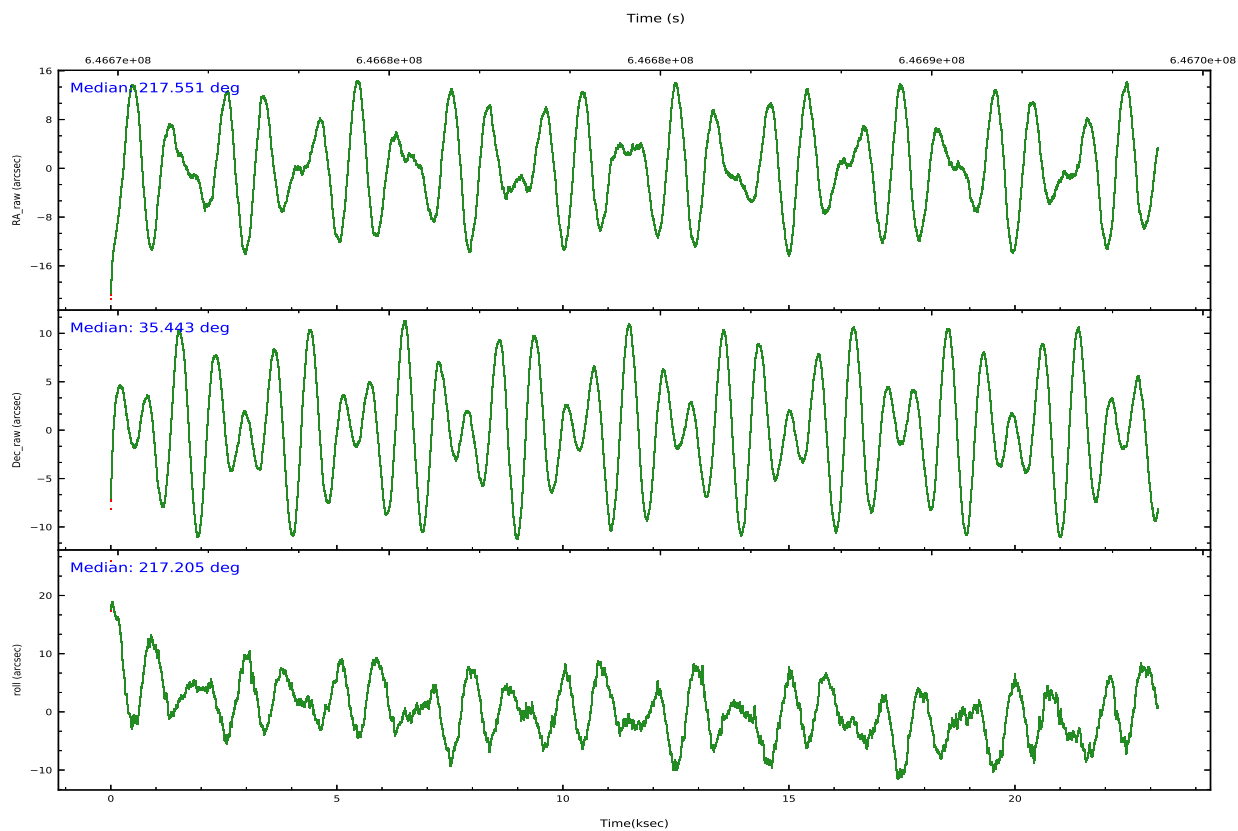
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6325	7114	6565	6375	8118
	4%	4%	3%	3%	3%
grade 1 events	78	88	102	92	290
	0%	0%	0%	0%	0%
grade 2 events	4939	5422	4815	4080	20572
	3%	3%	2%	2%	9%
grade 3 events	1903	2034	1841	1851	7775
	1%	1%	1%	1%	3%
grade 4 events	1824	1972	1884	1887	7723
	1%	1%	1%	1%	3%
grade 5 events	7213	7710	7168	8142	22094
	4%	4%	4%	4%	10%
grade 6 events	4066	4547	3744	3846	51451
	2%	2%	2%	2%	23%
grade 7 events	125050	130697	139084	139390	100962
	82%	81%	84%	84%	46%

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	217.564370	217.55158654196	CCD I2 on	Y	Y
[deg] Pointing Dec	35.468029	35.45043924144	CCD I3 on	Y	Y
[deg] Pointing Roll	216.995320	217.20537550176	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)	646672009.184000	646670965.58023	CCD S5 on	N	N
Observation start date	2018-06-29T15:05:40	2018-06-29T14:49:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	646695009.184000	646696146.24422	On-chip summing requested	N	N
Observation end date	2018-06-29T21:29:00	2018-06-29T21:49:06	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



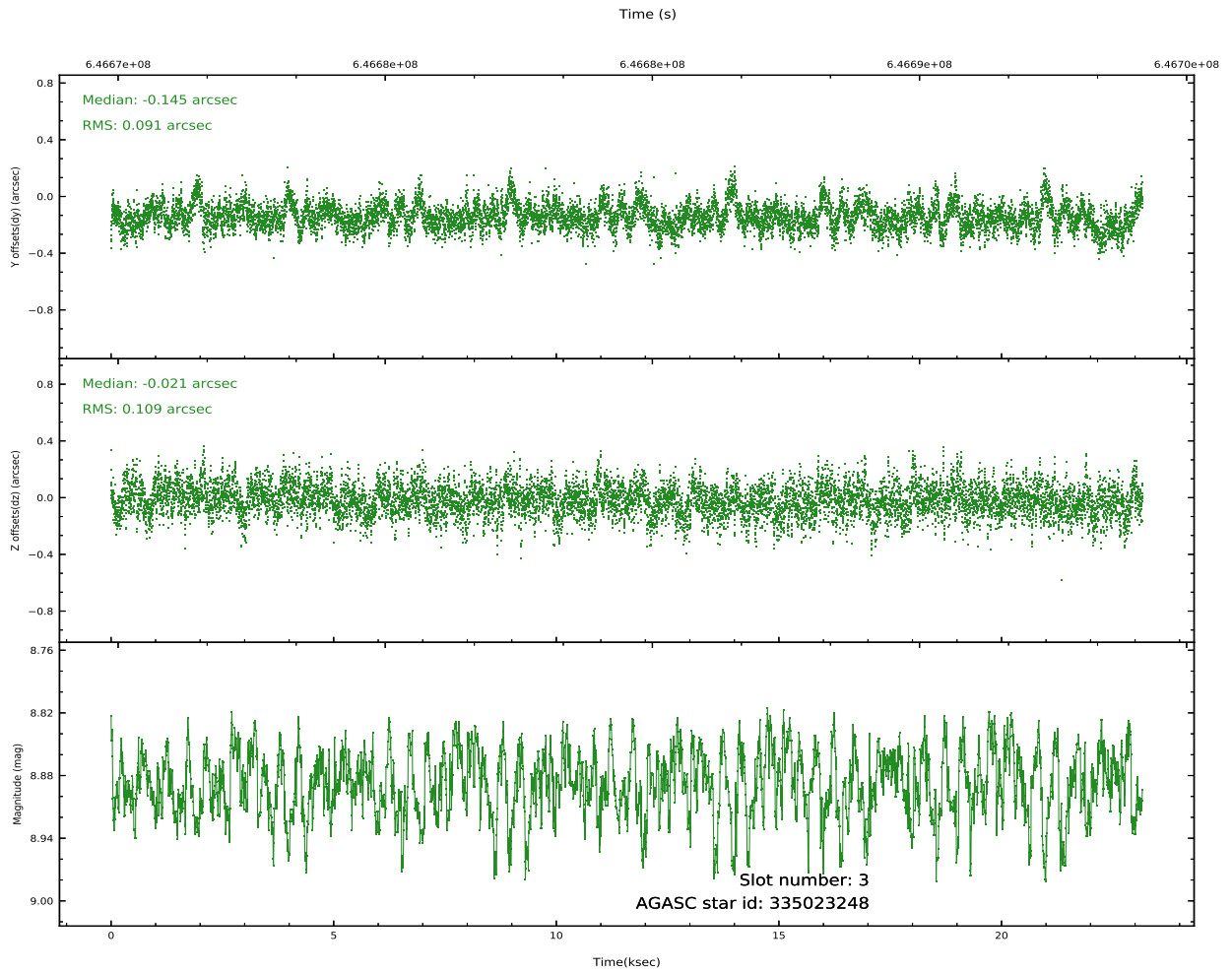
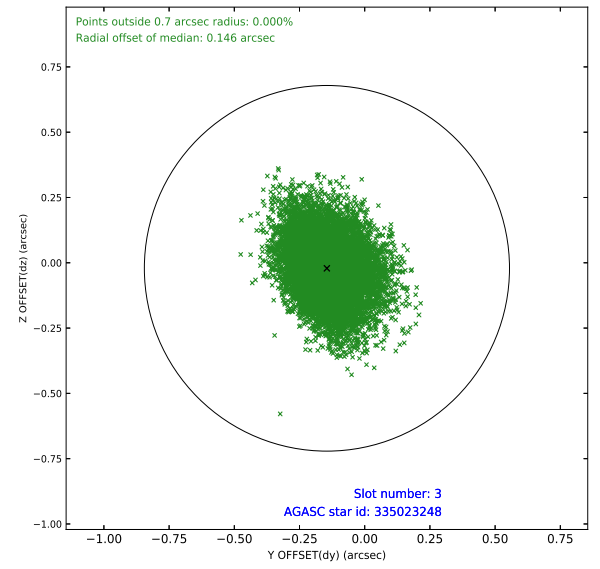
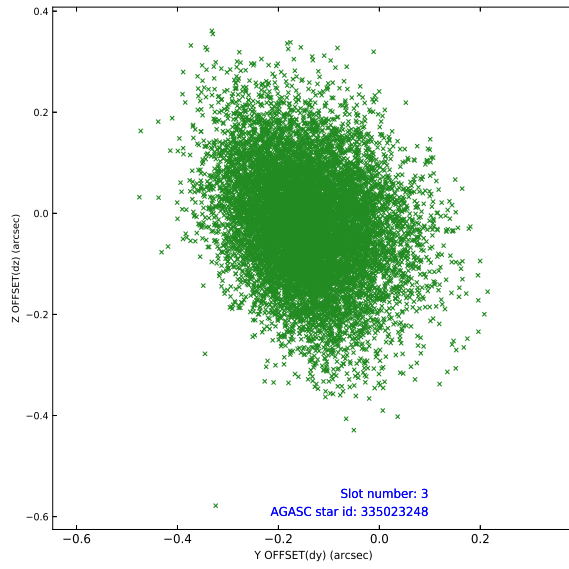


Slot Statistics

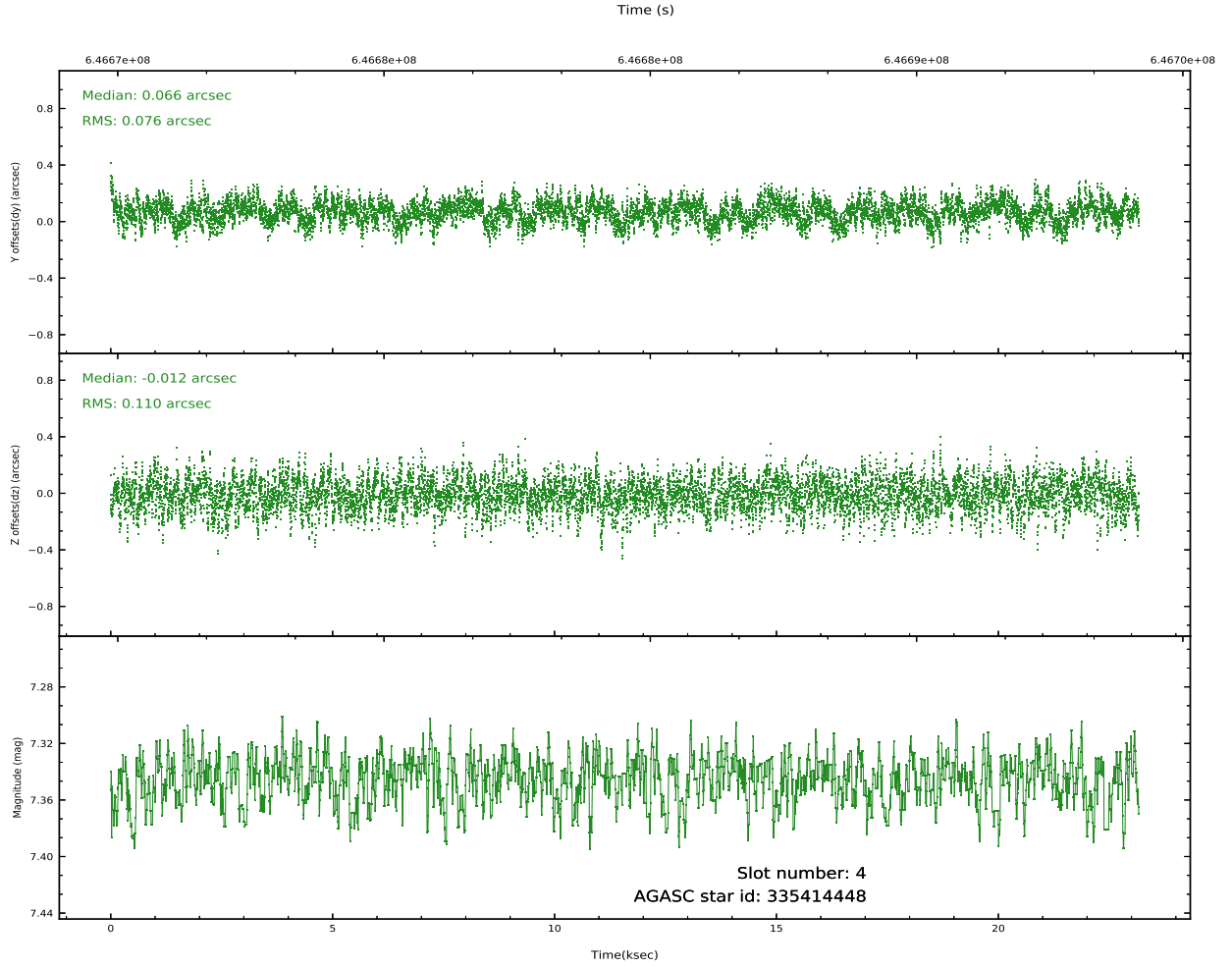
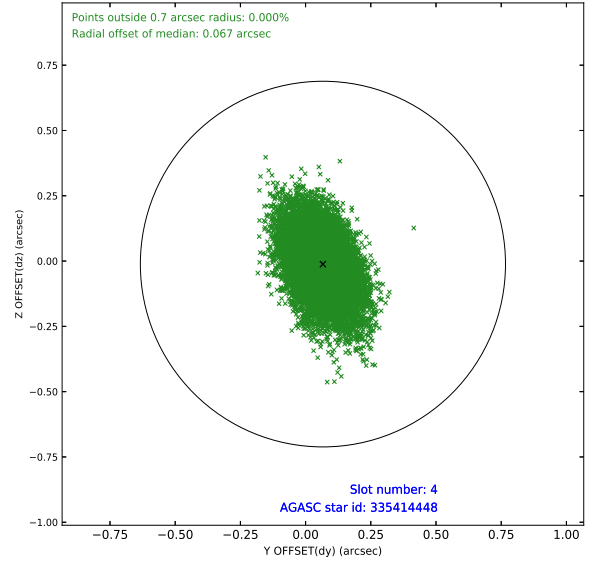
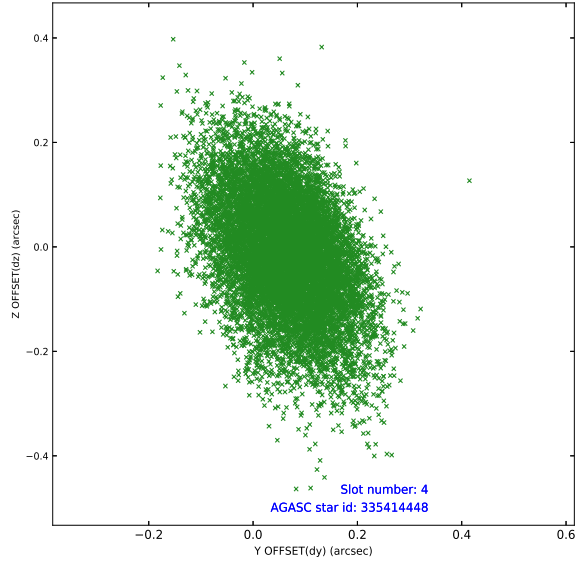
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.08	5651	1.000	0.130	-0.147	0.012	0.020	0.000000	0.000000	922.41	-845
1	FID		ACIS-I-4	7.01	5648	1.000	0.085	0.063	0.026	0.037	0.000000	0.000000	2142.63	1054
2	FID		ACIS-I-5	7.06	5651	1.000	-0.311	0.155	0.017	0.026	0.000000	0.000000	-1825.70	1052
3	GUIDE	used	335023248	8.89	11292	1.000	-0.145	-0.021	0.149	0.250	217.634832	34.944512	967.86	1630
4	GUIDE	used	335414448	7.34	11301	1.000	0.066	-0.012	0.139	0.240	216.992261	35.577204	1099.02	-1323
5	GUIDE	used	335417968	9.33	11284	1.000	-0.001	-0.168	0.218	0.362	217.358149	35.055285	1379.78	820
6	GUIDE	used	335421608	9.16	11296	1.000	0.090	-0.049	0.188	0.318	217.691874	36.359353	-2225.11	-2341
7	GUIDE	used	335421696	8.93	11283	1.000	-0.015	0.229	0.148	0.255	218.045699	35.772449	-1784.64	-30

2.4 Star Slots

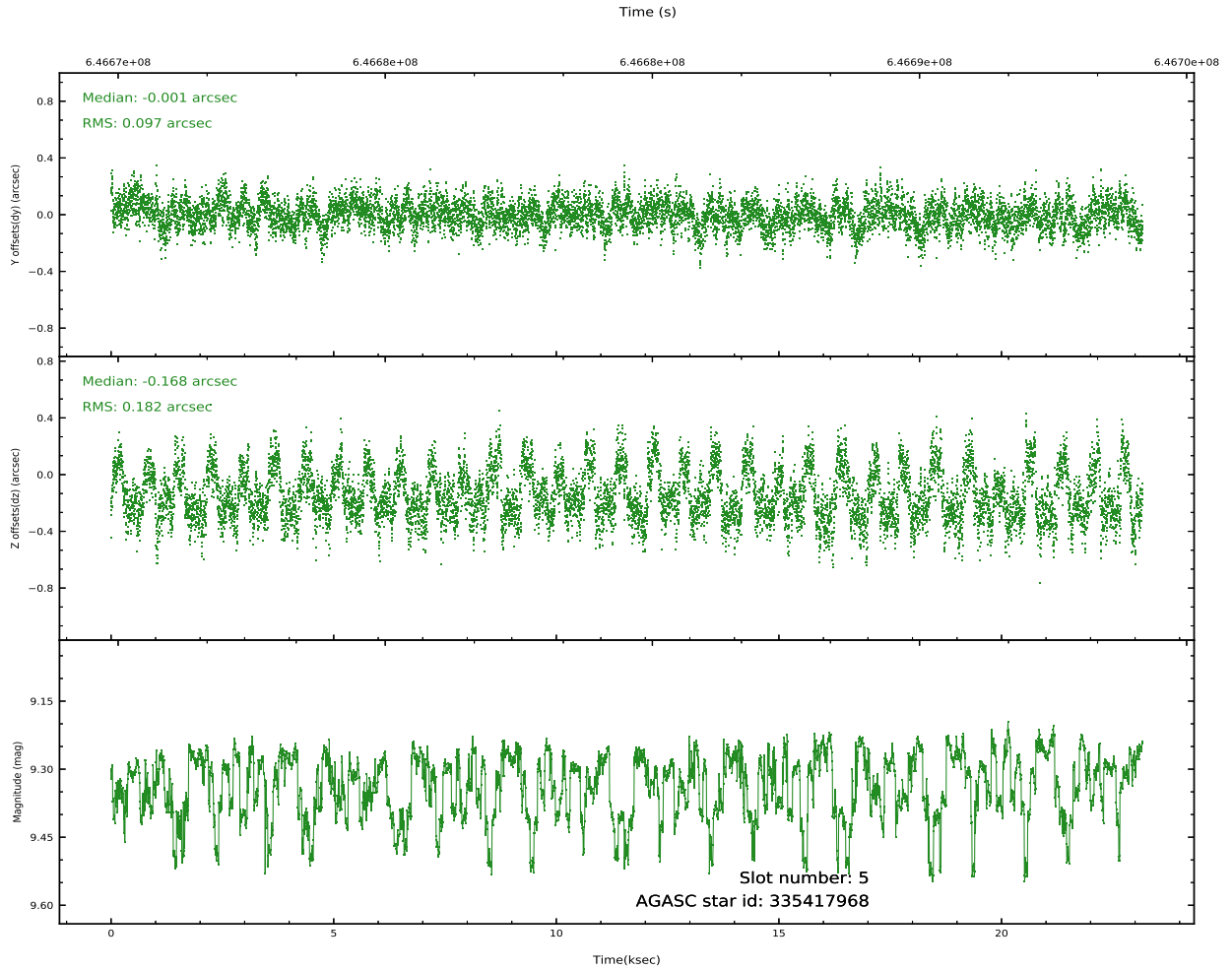
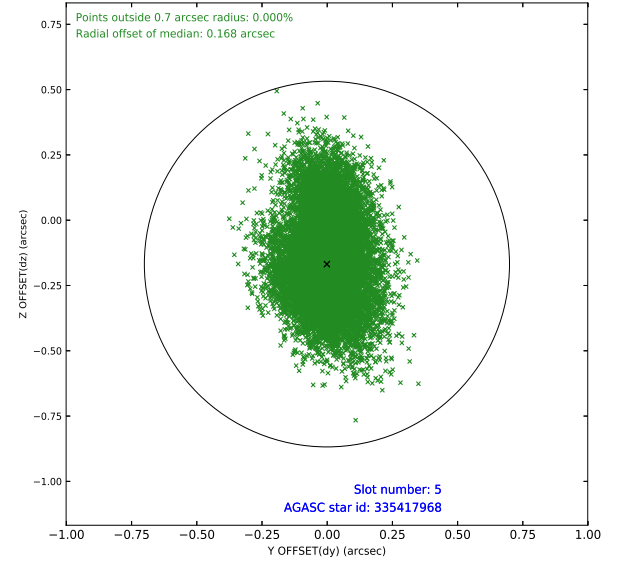
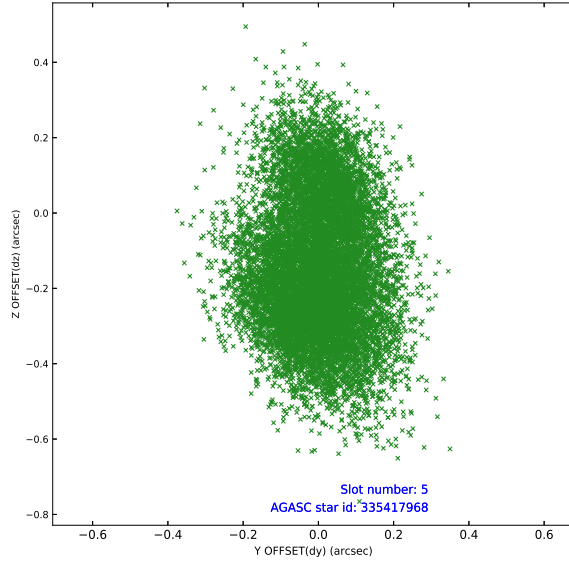
2.4.1 Slot 3



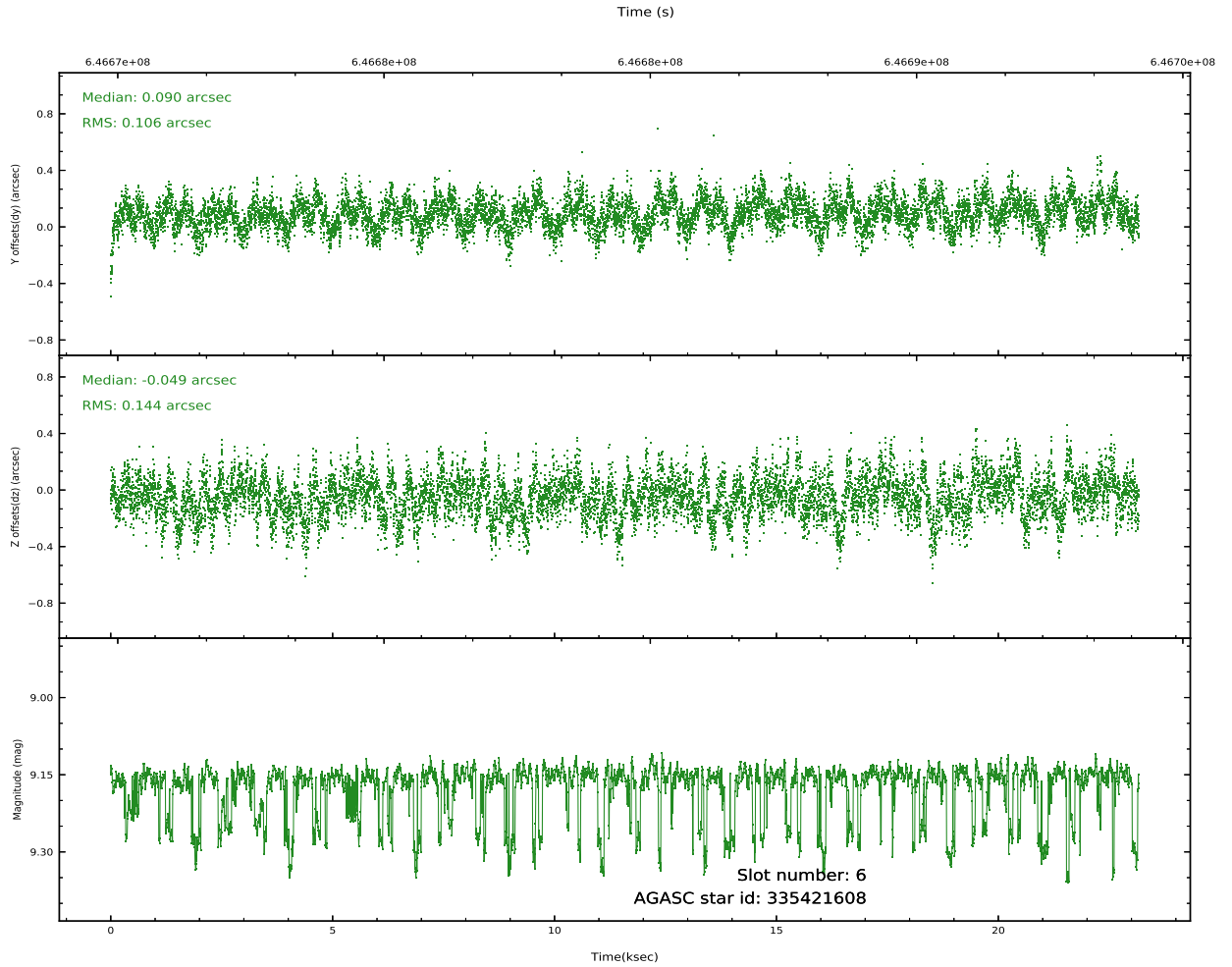
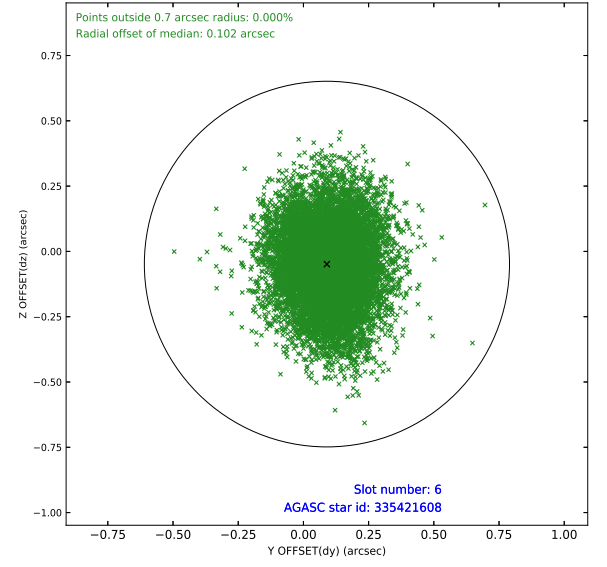
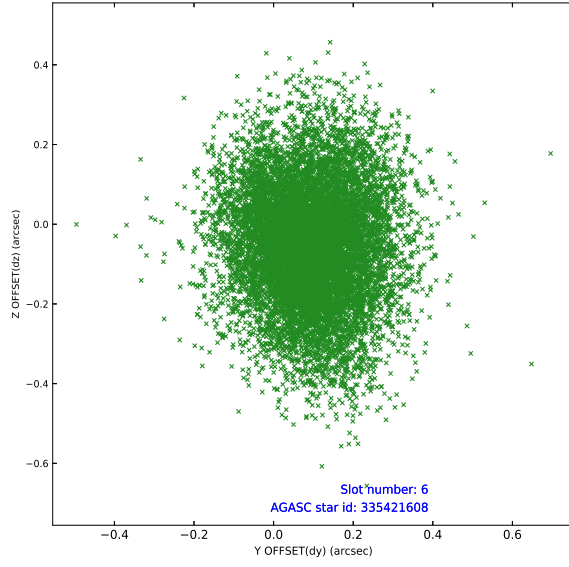
2.4.2 Slot 4



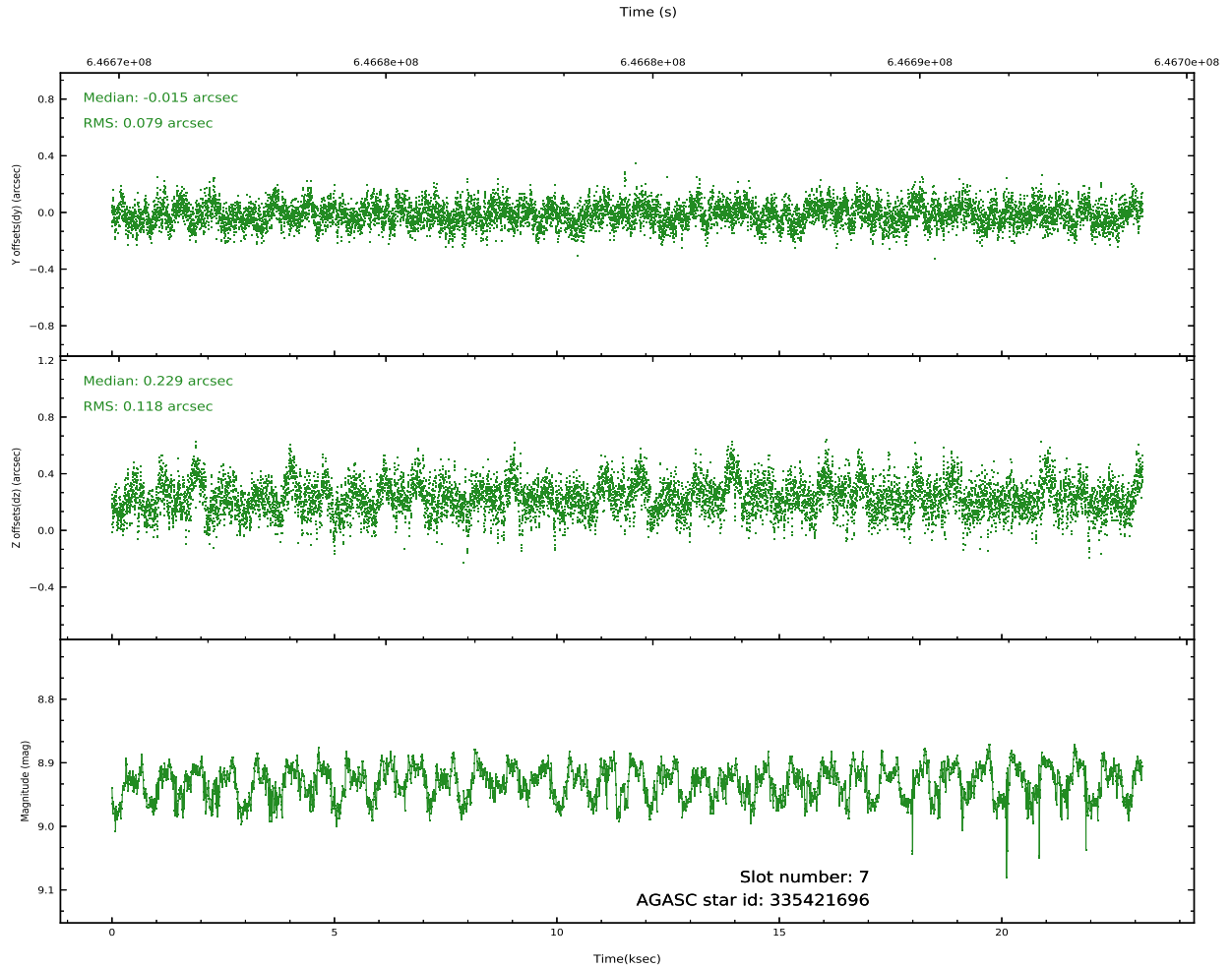
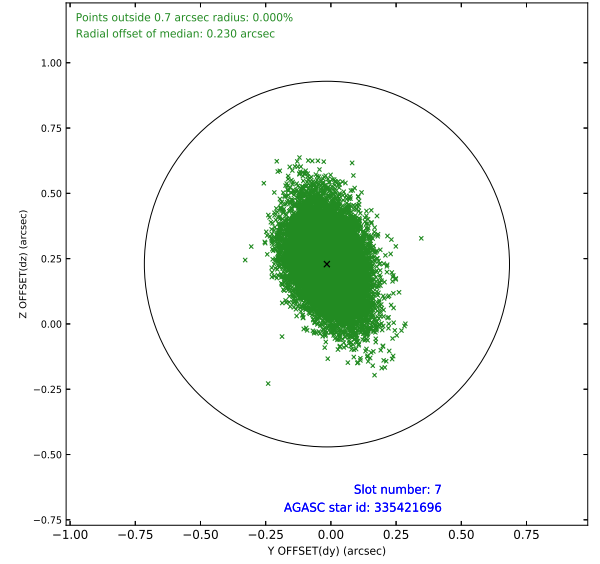
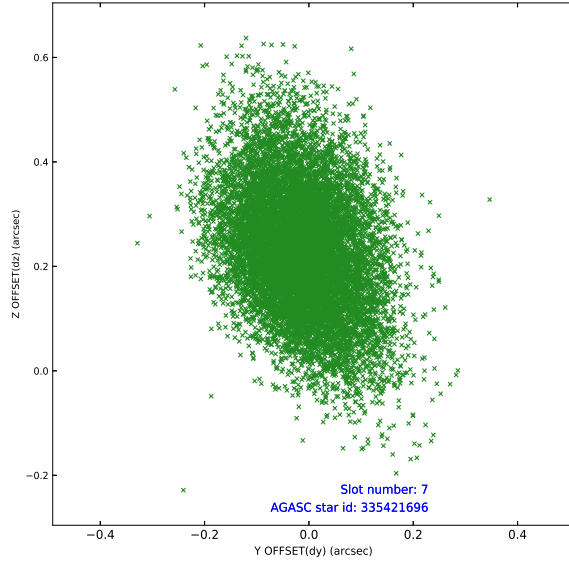
2.4.3 Slot 5



2.4.4 Slot 6

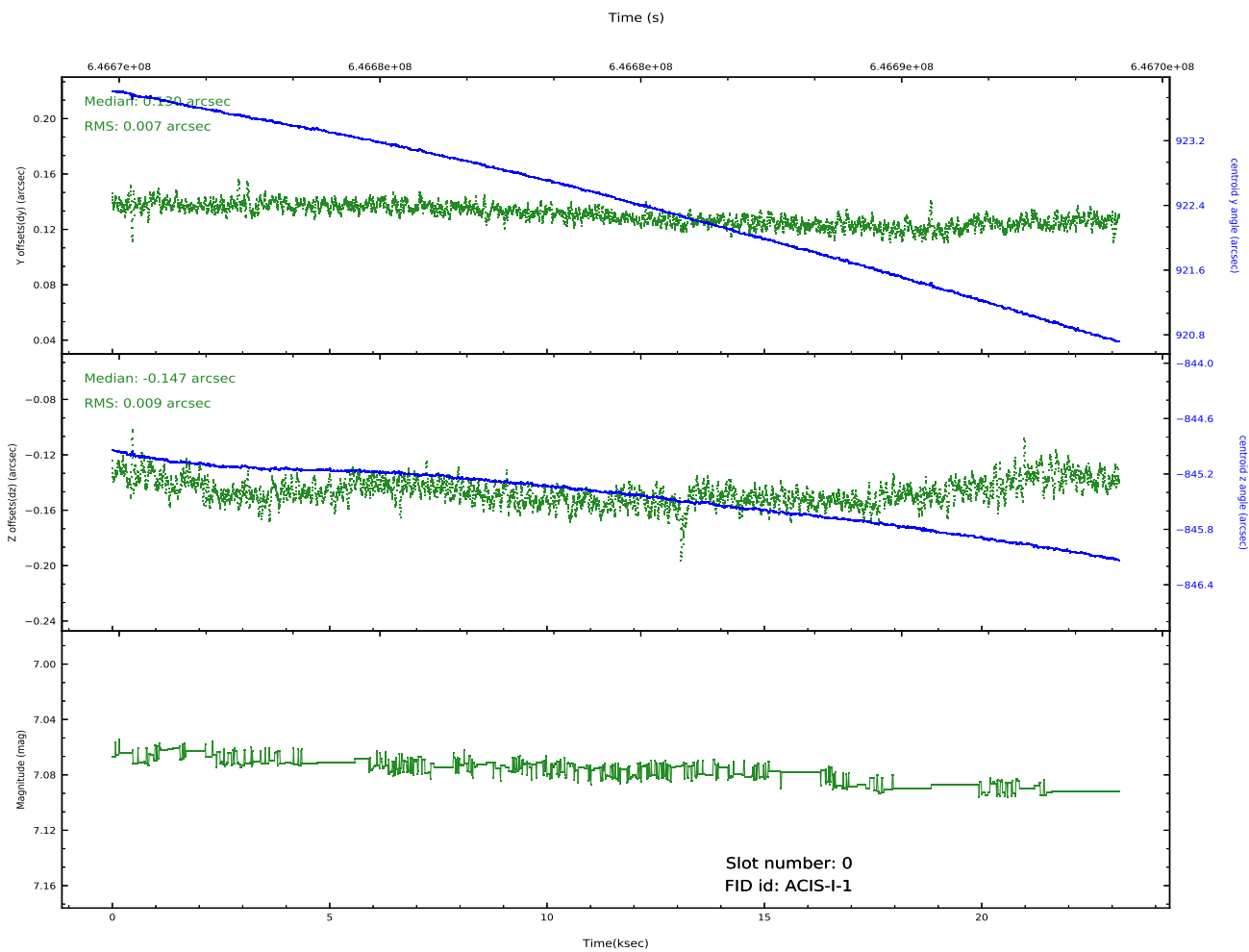
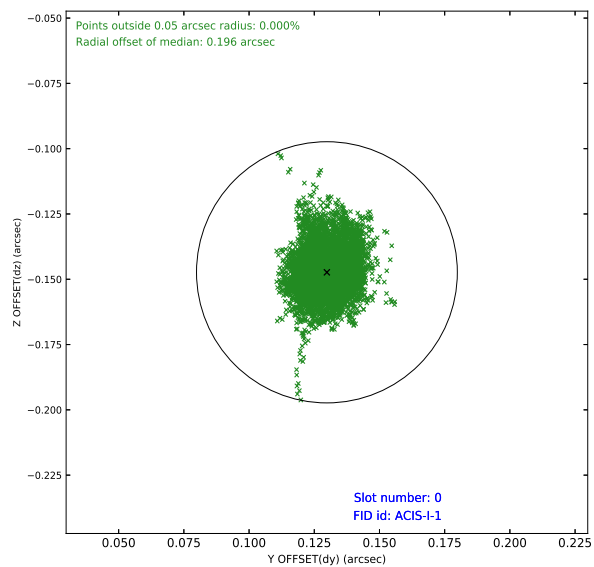
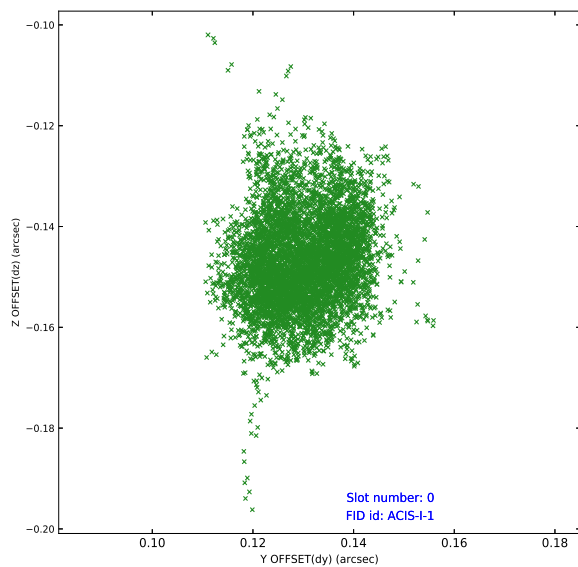


2.4.5 Slot 7

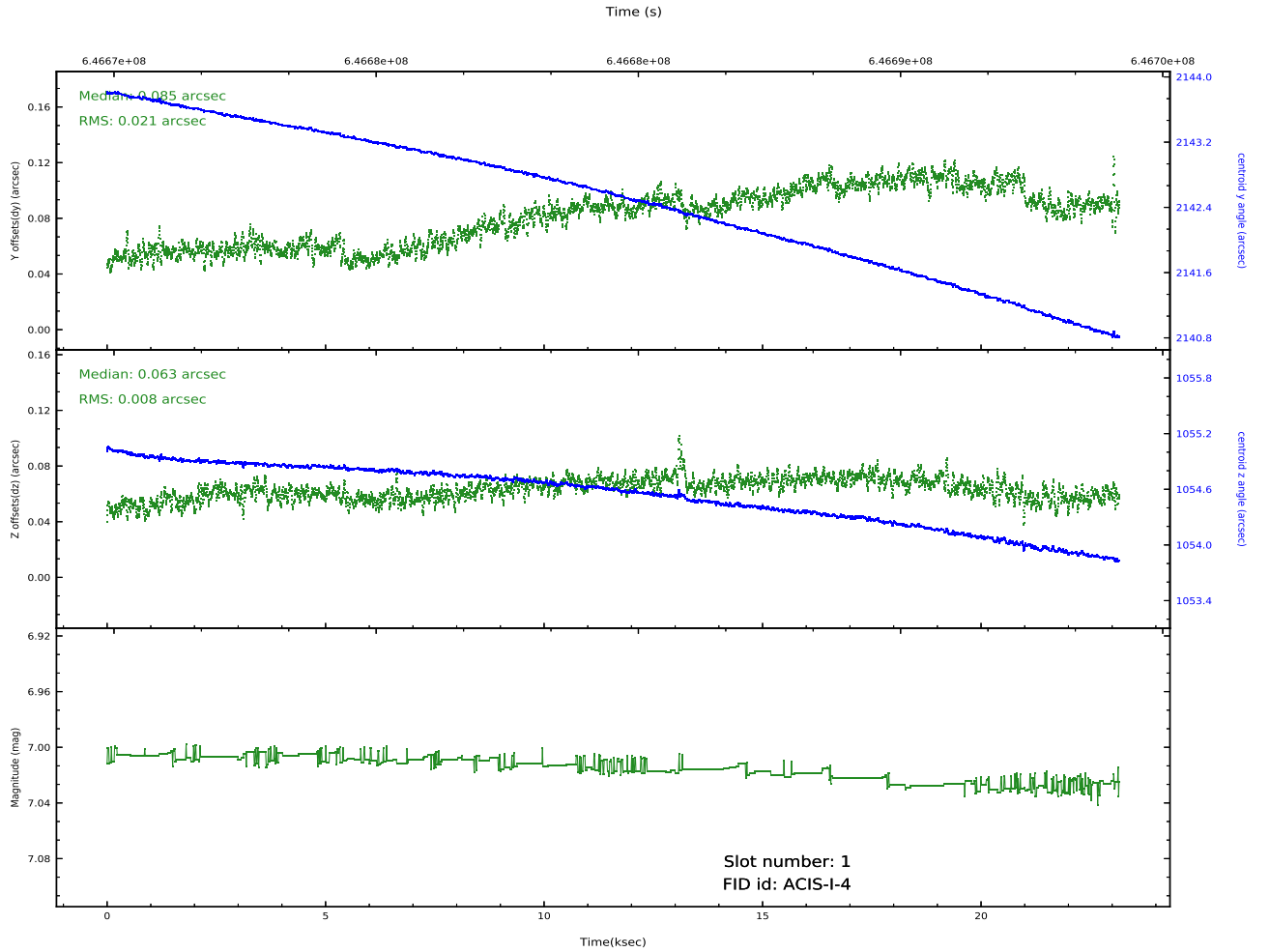
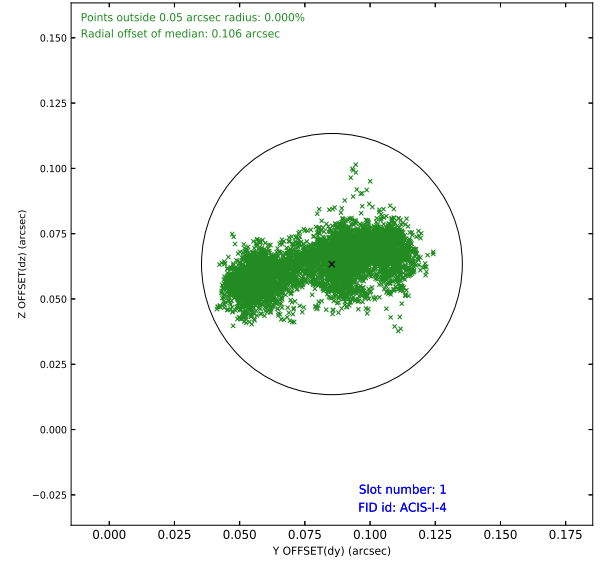
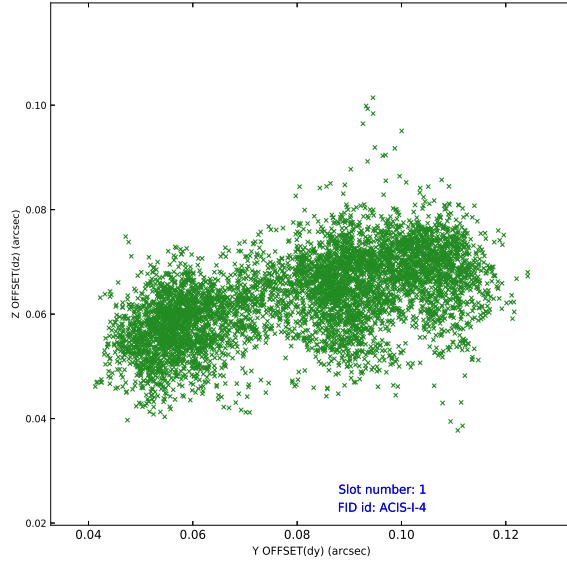


2.5 FID Slots

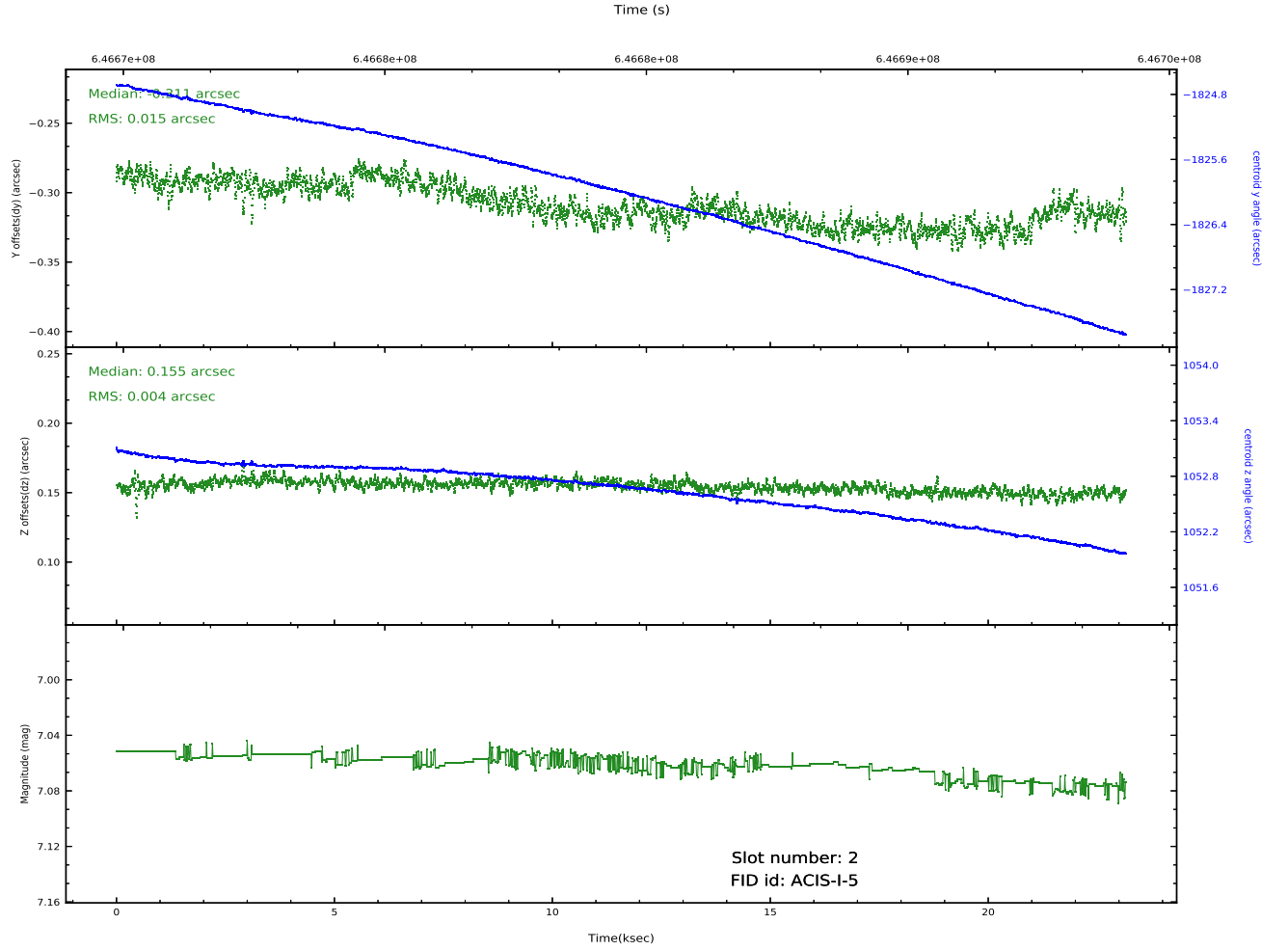
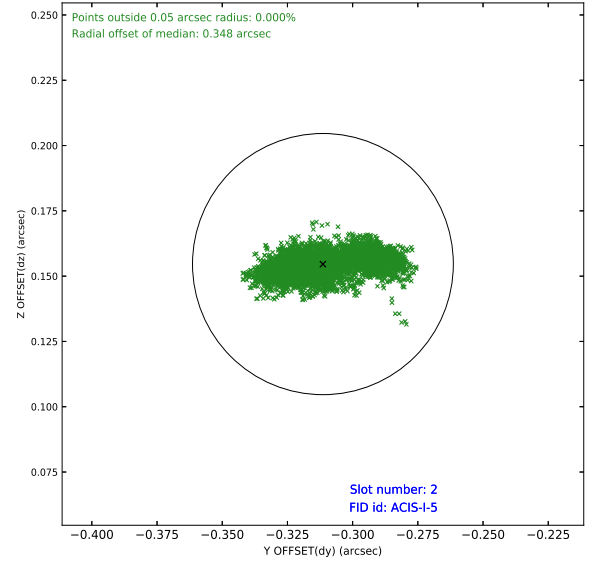
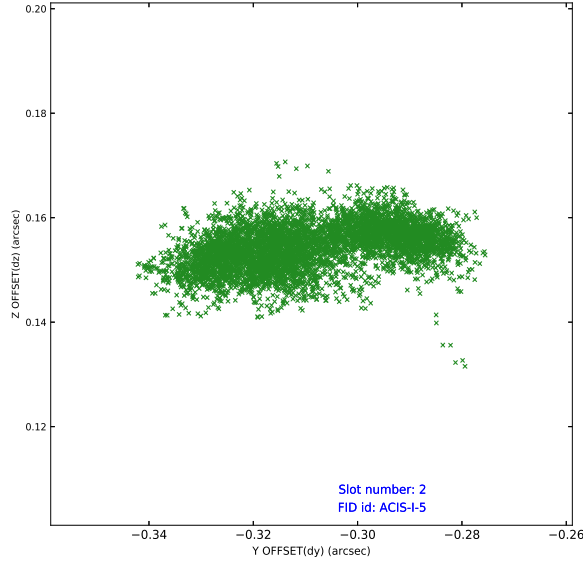
2.5.1 Slot 0



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	23.054391927361

A.2 Comments