

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20339 - L2 Version 2
Chandra X-Ray Center

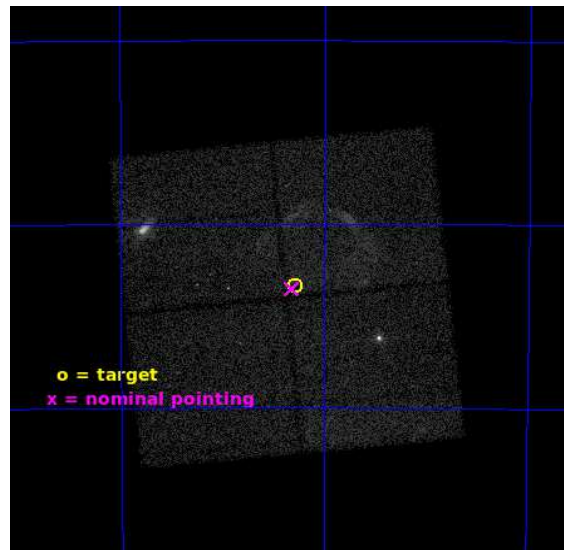
L2 Processing Date : Oct 28 2020

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1 Front

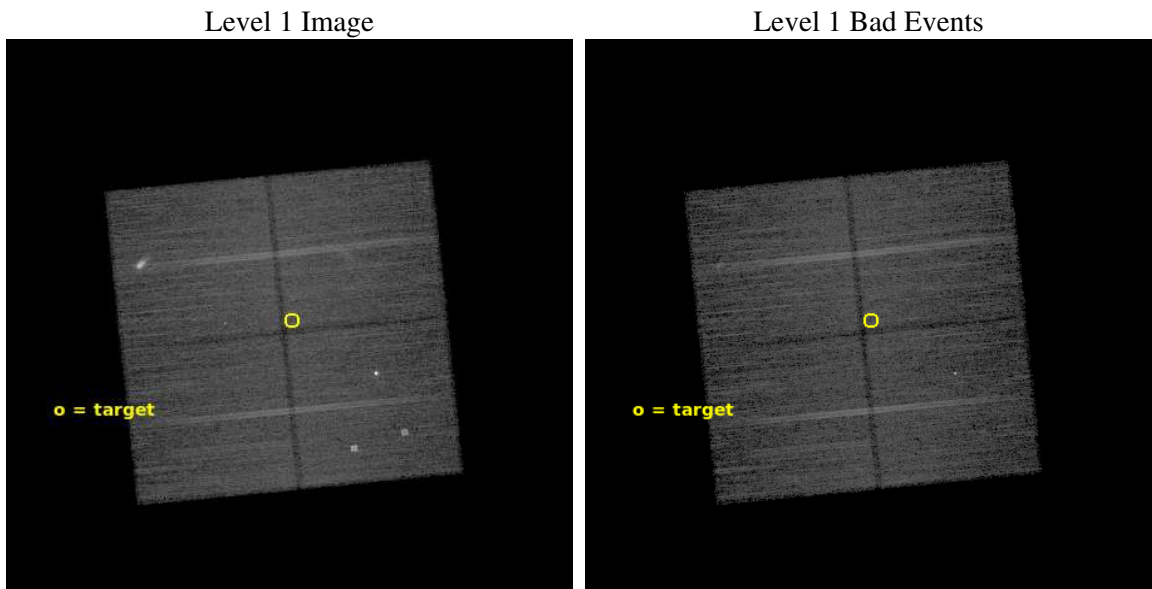
seq_num	503032	Sequence number
obs_id	20339	Observation id
title	Resolving the Shell of the Superbubble 30 Doradus C with Chandra	P
observer	Laura Lopez	Principal investigator
object	30 Doradus C	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.072917	Observer's specified target RA [deg]
dec_targ	-69.222944	Observer's specified target Dec [deg]
ra_nom	84.080193068176	Nominal RA [deg]
dec_nom	-69.225236308215	Nominal Dec [deg]
roll_nom	354.21704657309	Nominal Roll [deg]
revision	2	Processing version of data
ontime	26077.200200677	Sum of GTIs [s]
livetime	25736.4823823	Livetime [s]
ontime0	26077.200200677	Sum of GTIs [s]
ontime1	26074.059230447	Sum of GTIs [s]
ontime2	26077.200200677	Sum of GTIs [s]
ontime3	26077.200200677	Sum of GTIs [s]
l2events	111296	Number of level 2 events



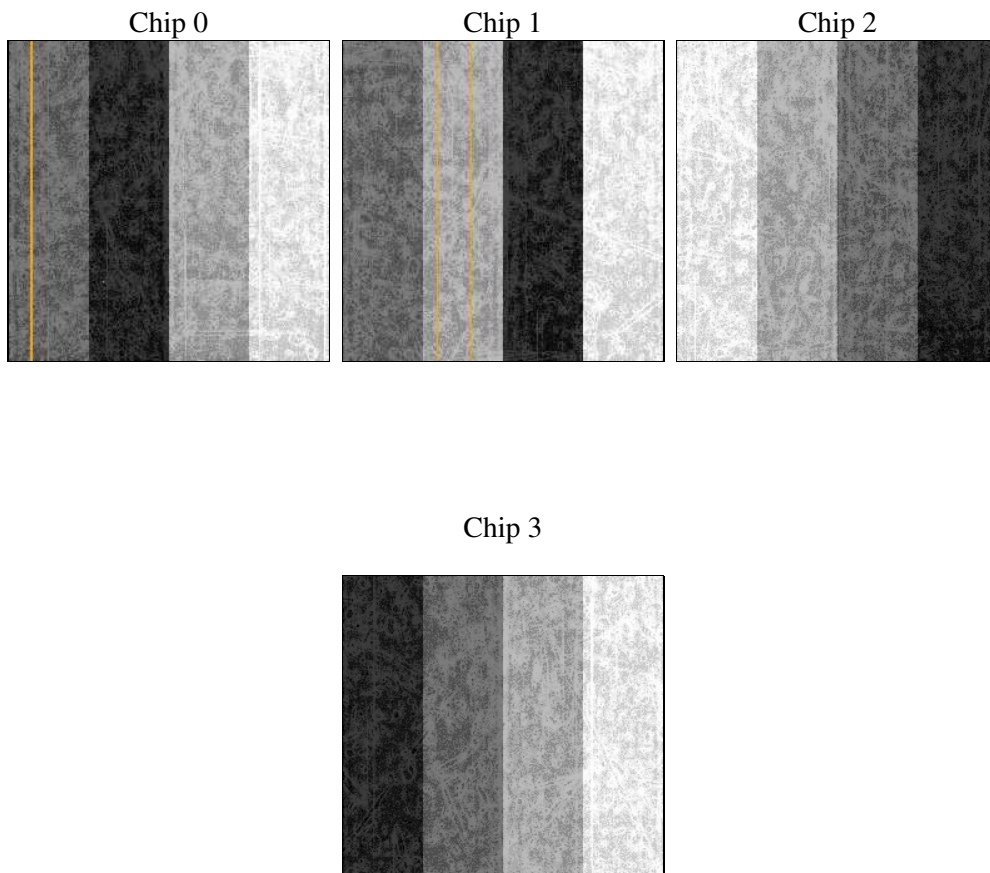
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	26077.200200677	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	26077.200200677	Sum of GTIs [s]
date	2020-10-28T17:46:08	Date and time of file creation	ontime1	26074.059230447	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	26077.200200677	Sum of GTIs [s]
			ontime3	26077.200200677	Sum of GTIs [s]
			l1events	825071	Number of level 1 events

2.1.4 Events

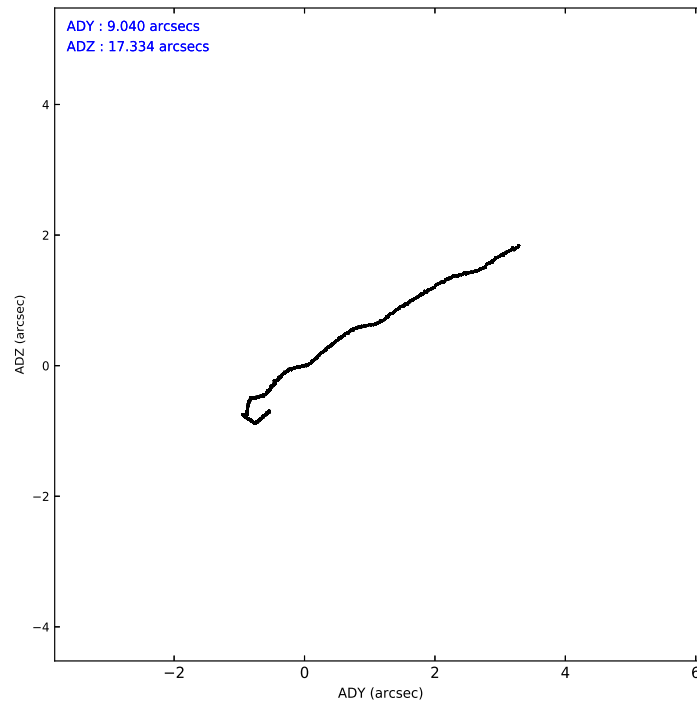
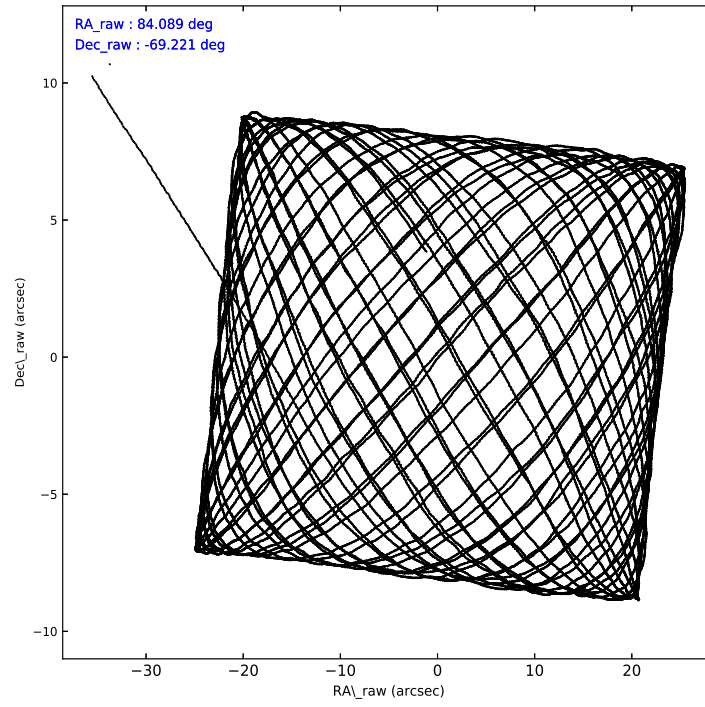
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	188397	214028	217821	204825
rejected events	163691	163991	180633	178272
rejected %	86%	76%	82%	87%

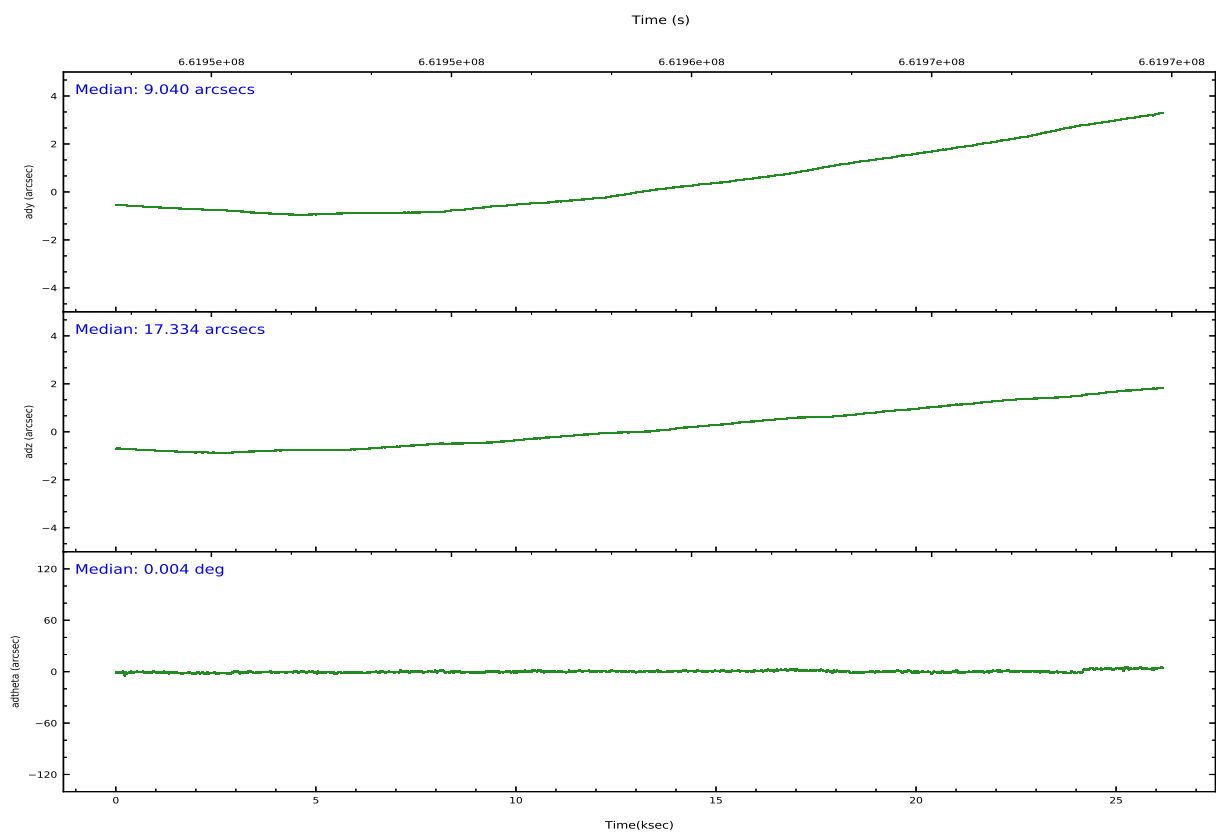
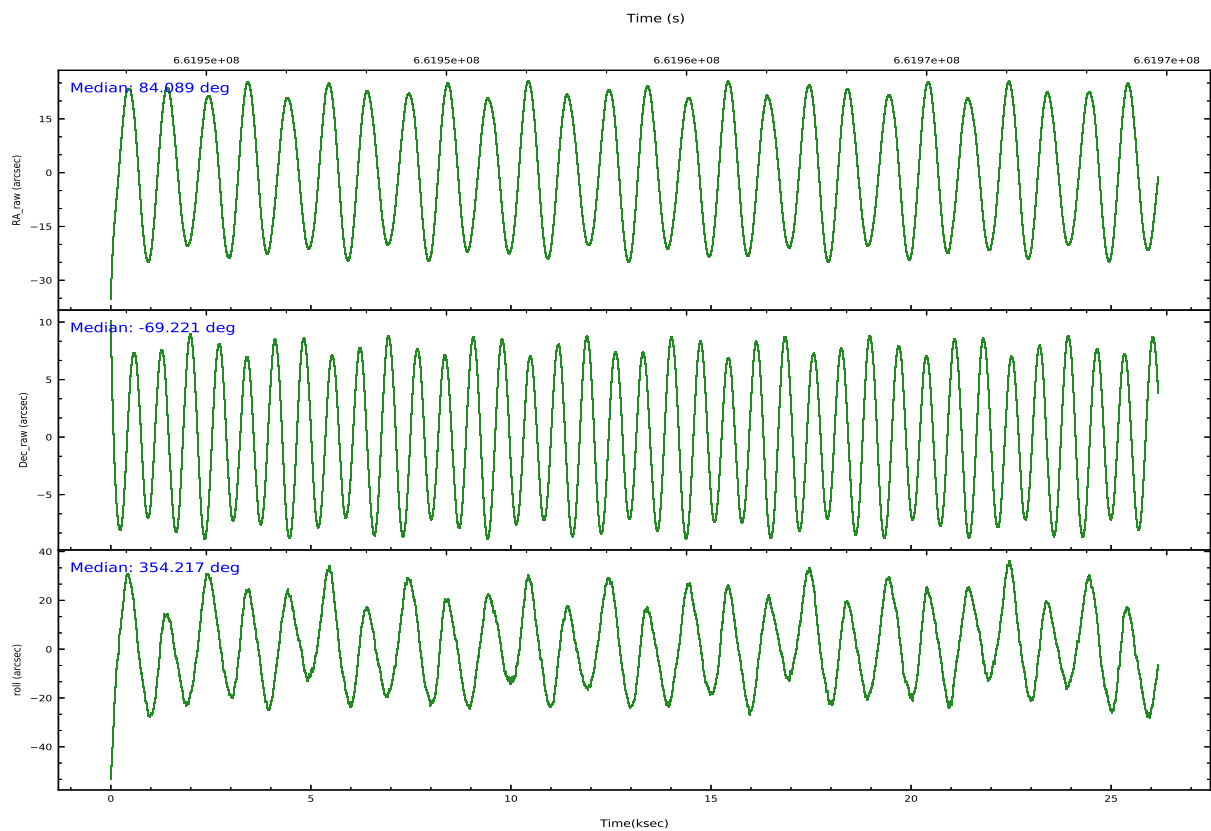
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	9404	29195	19600	12092
	4%	13%	8%	5%
grade 1 events	88	925	206	138
	0%	0%	0%	0%
grade 2 events	5933	8873	7266	5147
	3%	4%	3%	2%
grade 3 events	2400	2993	2692	2397
	1%	1%	1%	1%
grade 4 events	2246	3073	2782	2350
	1%	1%	1%	1%
grade 5 events	8731	9253	8243	9685
	4%	4%	3%	4%
grade 6 events	4726	5913	4861	4569
	2%	2%	2%	2%
grade 7 events	154869	153803	172171	168447
	82%	71%	79%	82%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	84.018663	84.080193068176	Subarray requested	NONE	NONE
[deg] Pointing Dec	-69.231871	-69.225236308215	Alternating exposures requested	N	N
[deg] Pointing Roll	353.949270	354.21704657309	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	661945786.184000	661944706.30531			
Observation start date	2018-12-23T09:48:37	2018-12-23T09:31:46			
[s] Observation end time (MET)	661971786.184000	661972635.50697			
Observation end date	2018-12-23T17:01:57	2018-12-23T17:17:15			
Read mode	TIMED	TIMED			

2.3 Aspect



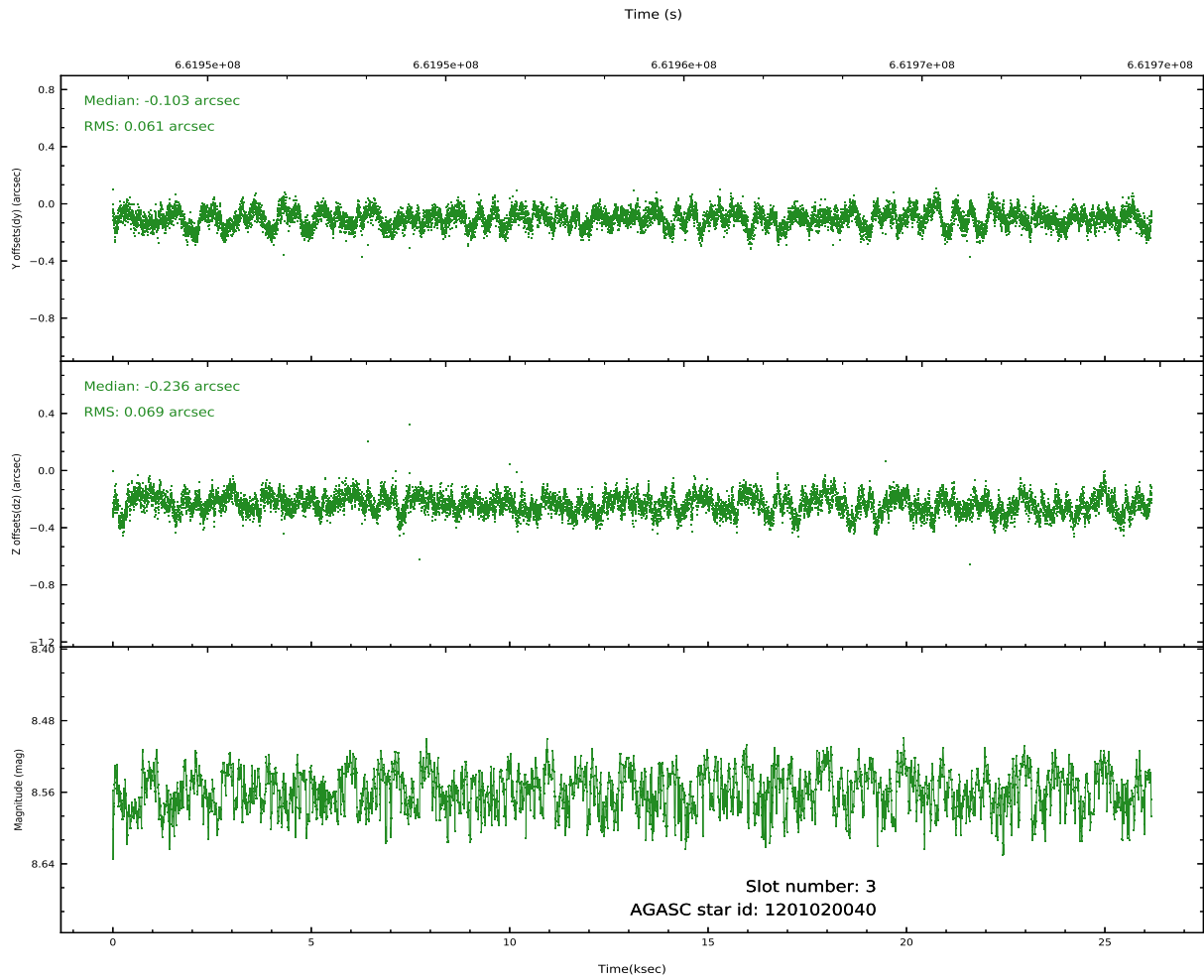
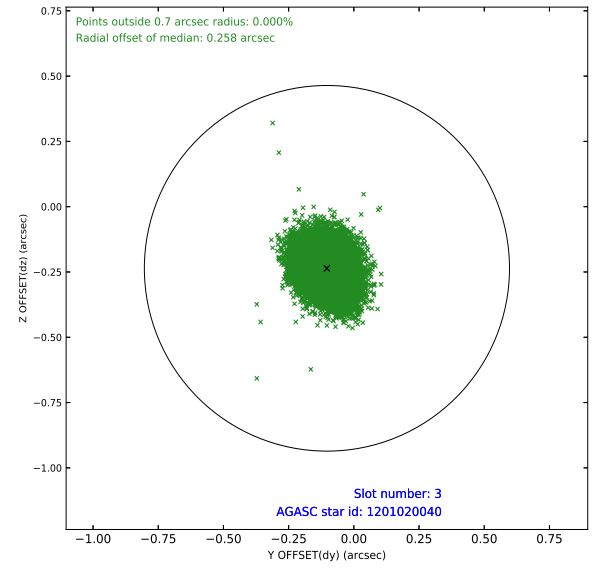
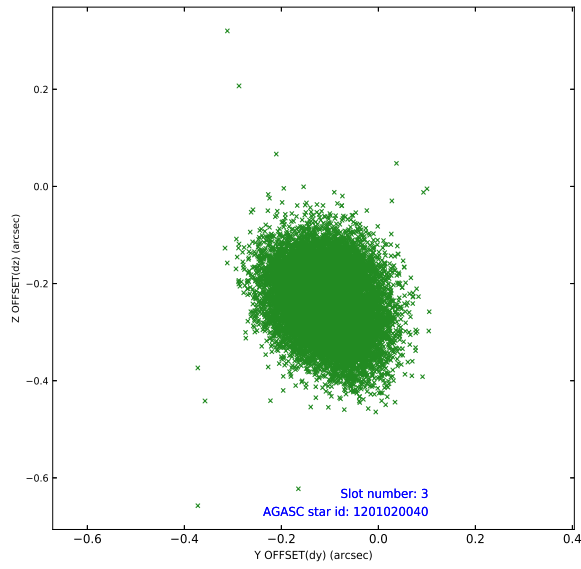


Slot Statistics

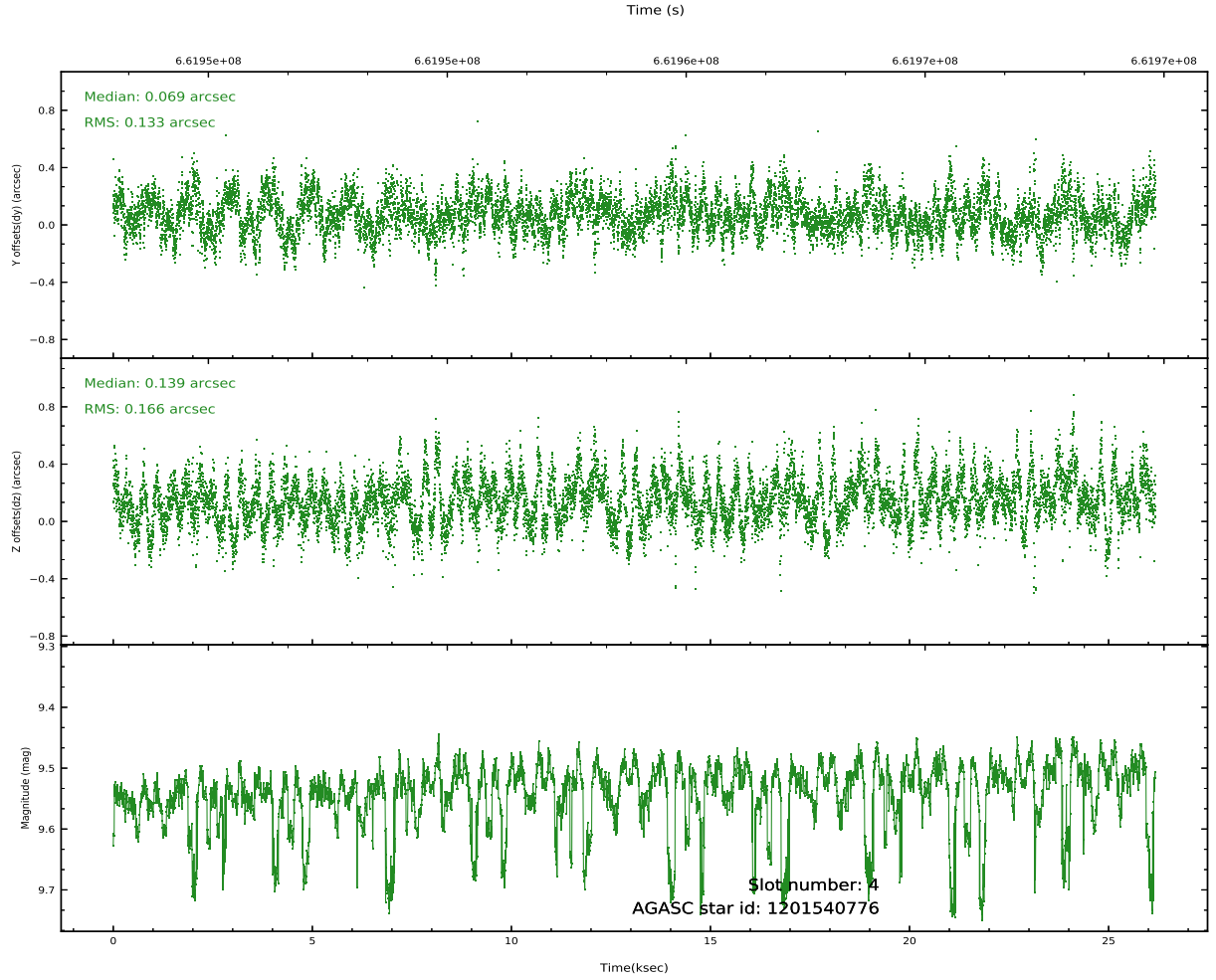
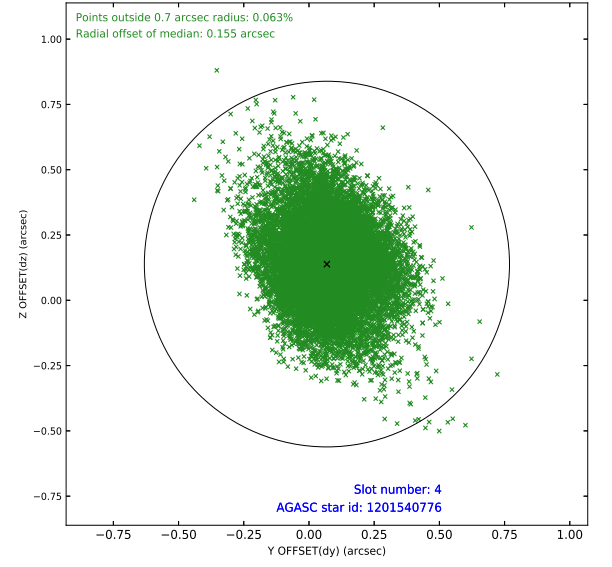
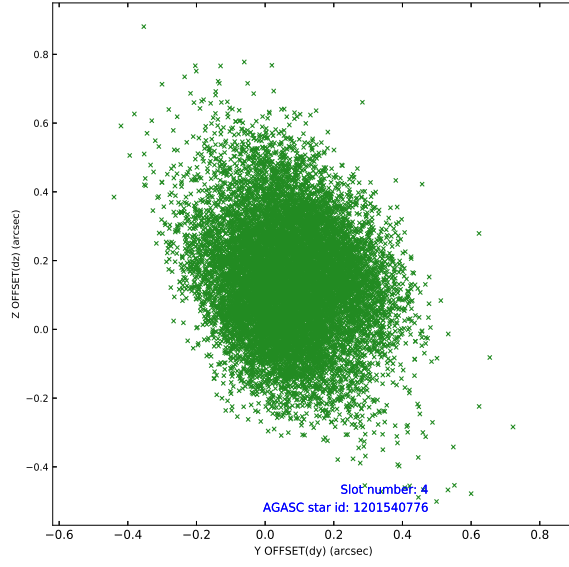
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-2	7.00	6384	1.000	0.032	-0.089	0.035	0.111	0.000000	0.000000	-764.10	-847
1	FID		ACIS-I-4	7.04	6383	1.000	0.194	0.022	0.024	0.069	0.000000	0.000000	2150.27	1058
2	FID		ACIS-I-5	7.09	6385	1.000	-0.327	0.134	0.025	0.043	0.000000	0.000000	-1817.94	1056
3	GUIDE	used	1201020040	8.56	12764	1.000	-0.103	-0.236	0.099	0.155	85.379163	-68.879396	1623.47	1428
4	GUIDE	used	1201540776	9.53	12725	1.000	0.069	0.139	0.222	0.365	85.107945	-69.858480	1582.55	-2112
5	GUIDE	used	1201019672	6.79	12769	1.000	-0.104	-0.177	0.077	0.126	85.312192	-68.770187	1503.82	1812
6	GUIDE	used	1201410616	9.26	12753	1.000	0.164	0.313	0.171	0.265	82.516808	-69.784406	-1644.94	-2196
7	GUIDE	used	1200884248	9.43	12680	1.000	-0.025	-0.032	0.173	0.282	83.880915	-68.565170	-432.54	2367

2.4 Star Slots

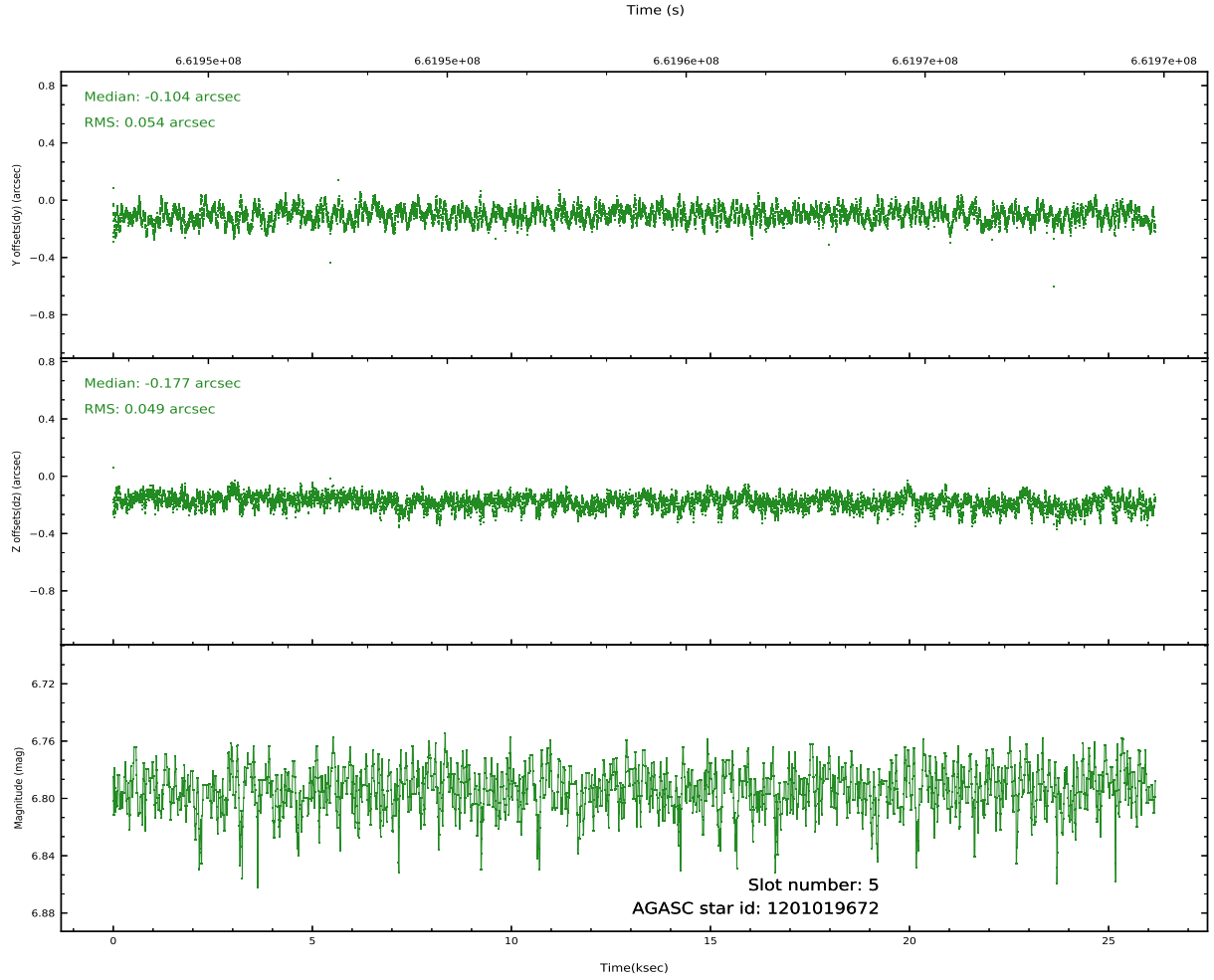
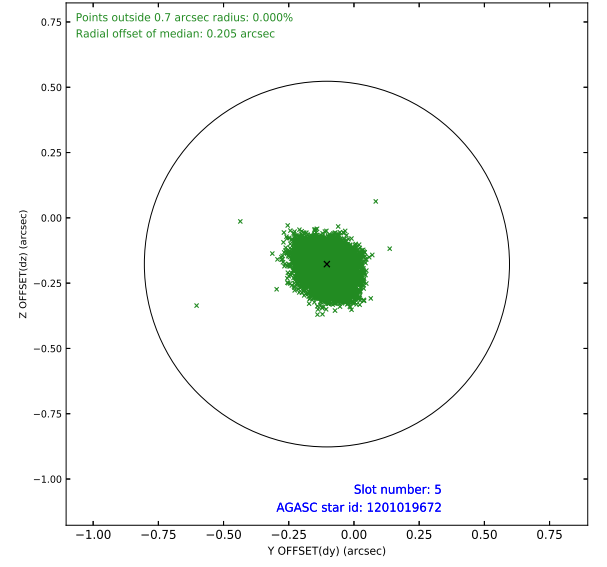
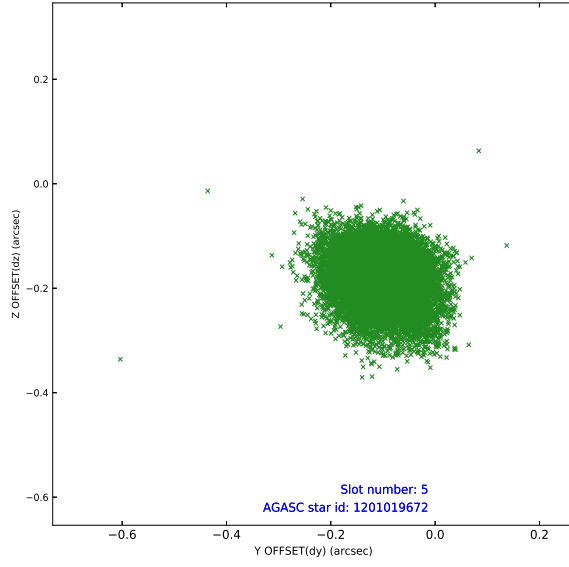
2.4.1 Slot 3



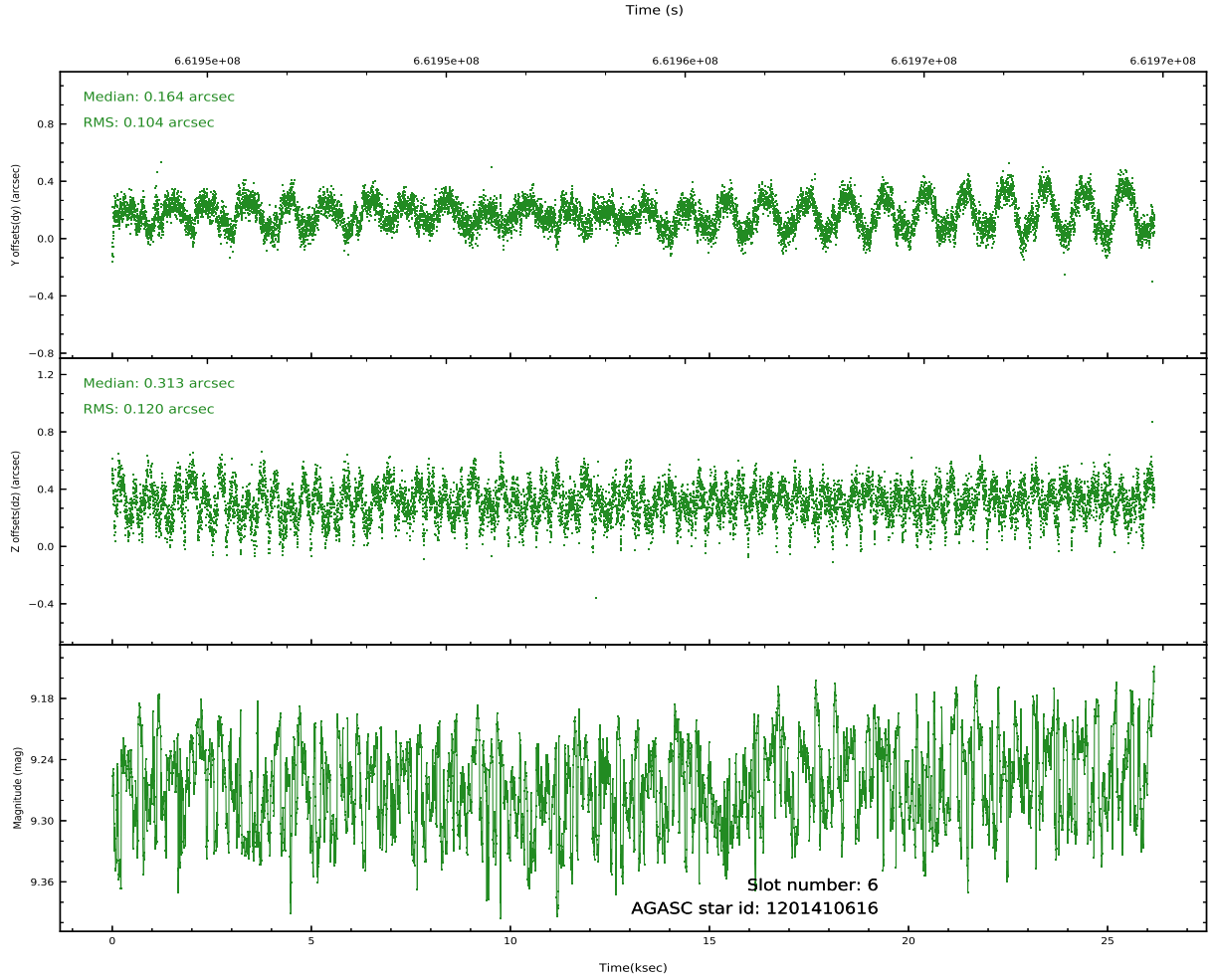
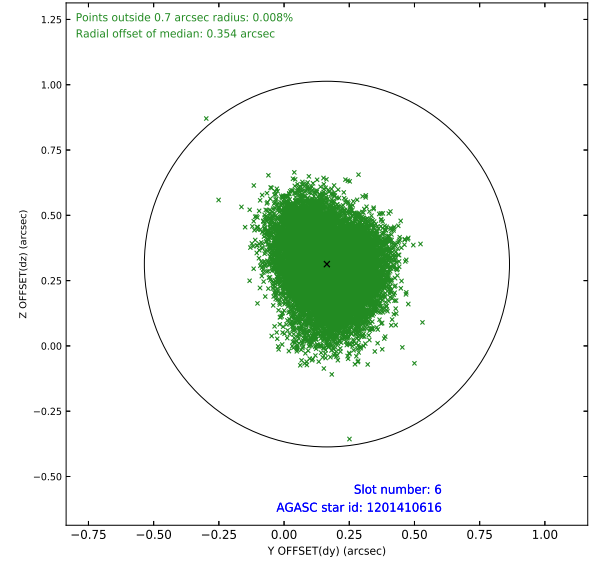
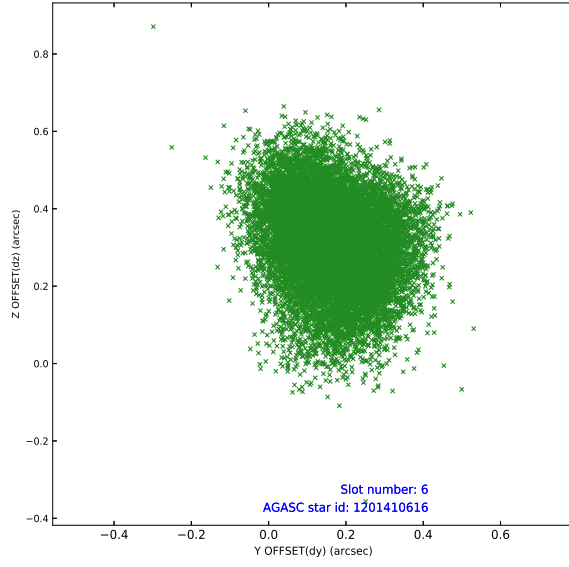
2.4.2 Slot 4



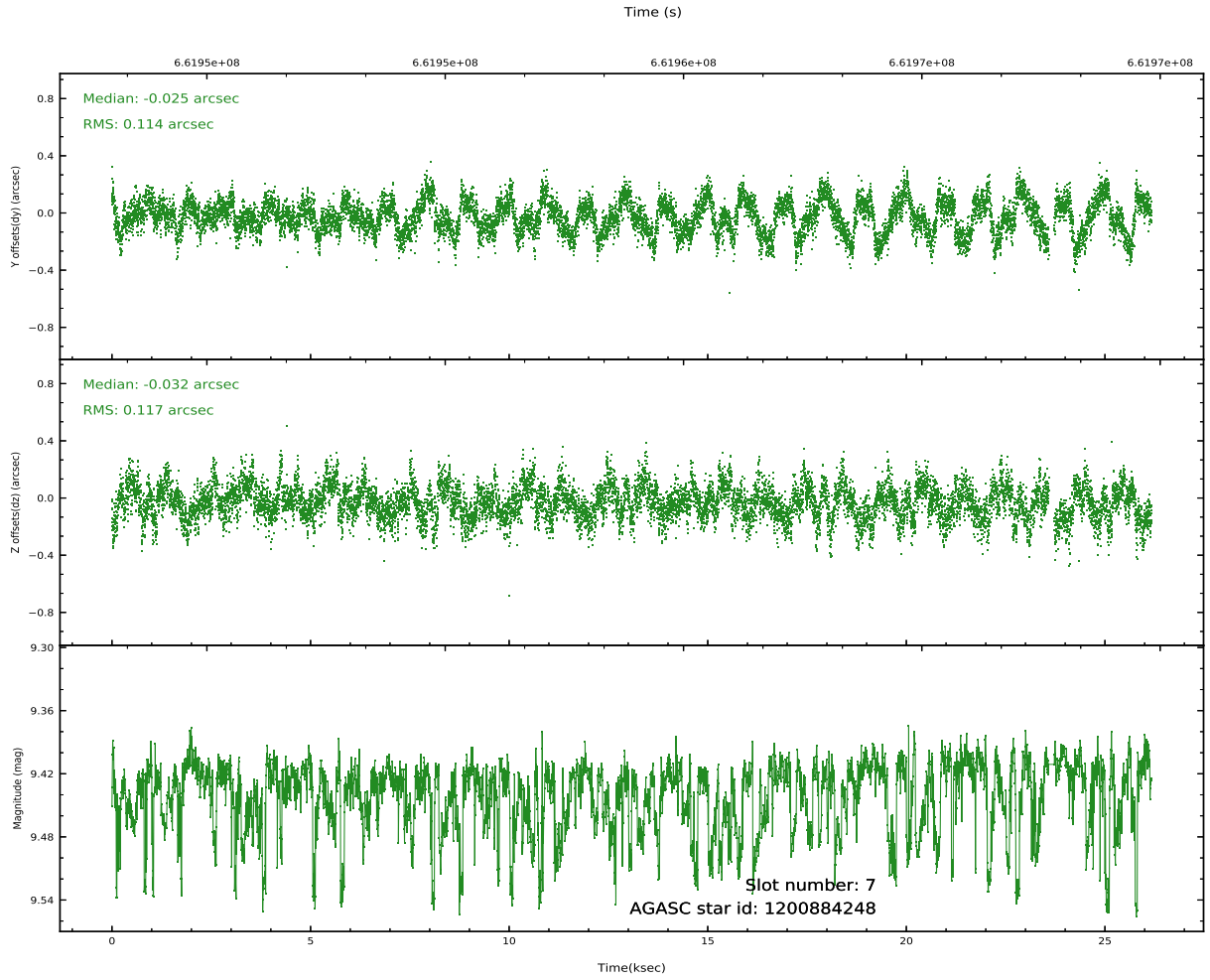
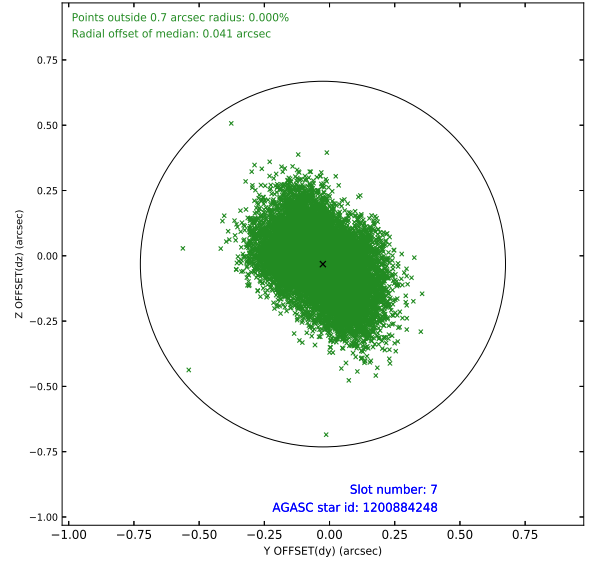
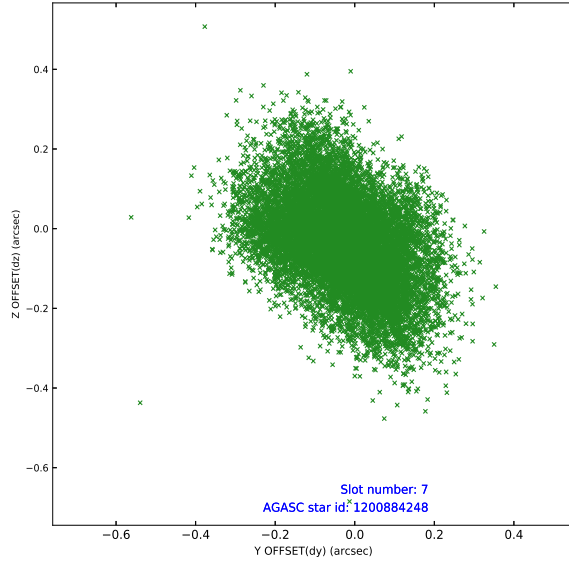
2.4.3 Slot 5



2.4.4 Slot 6

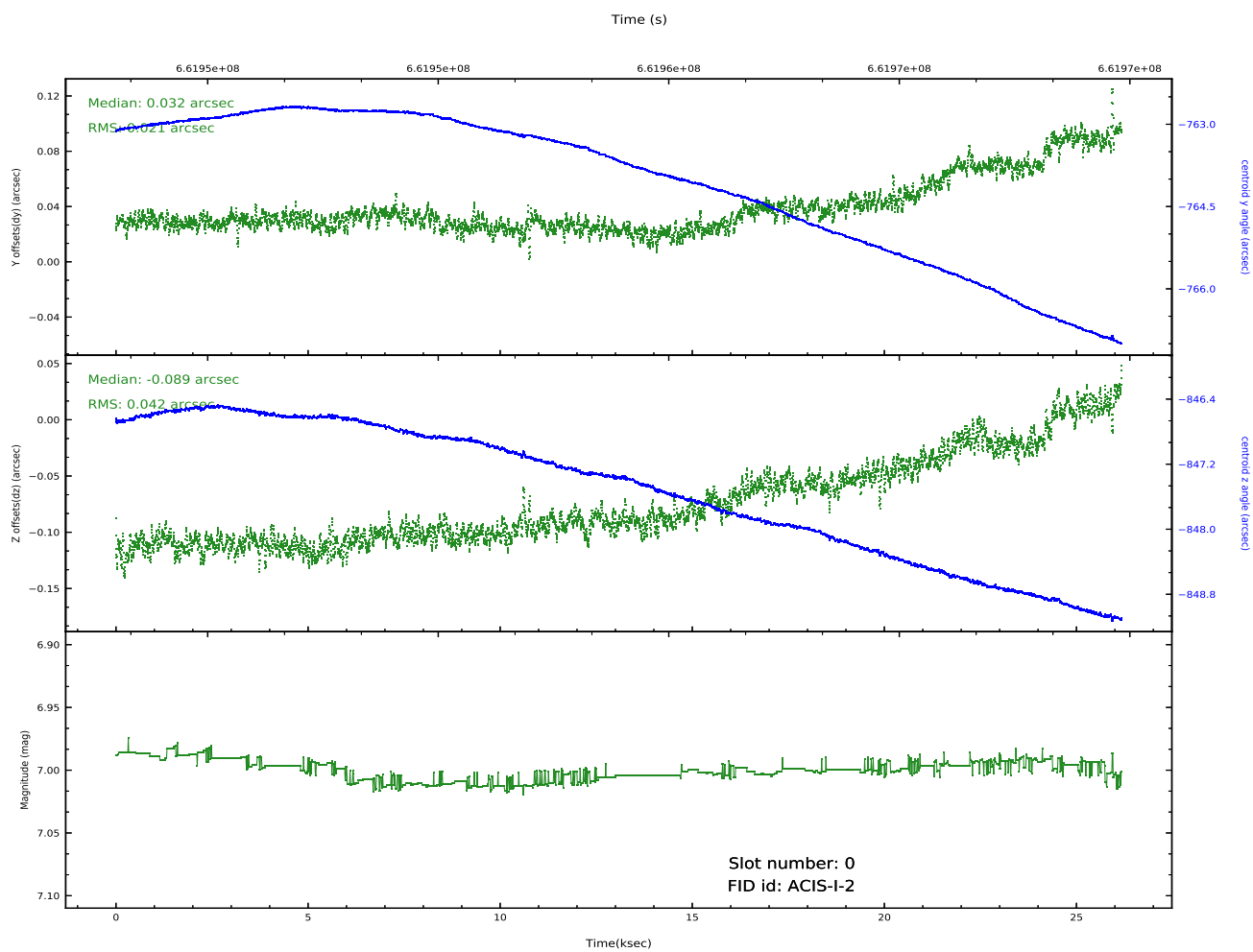
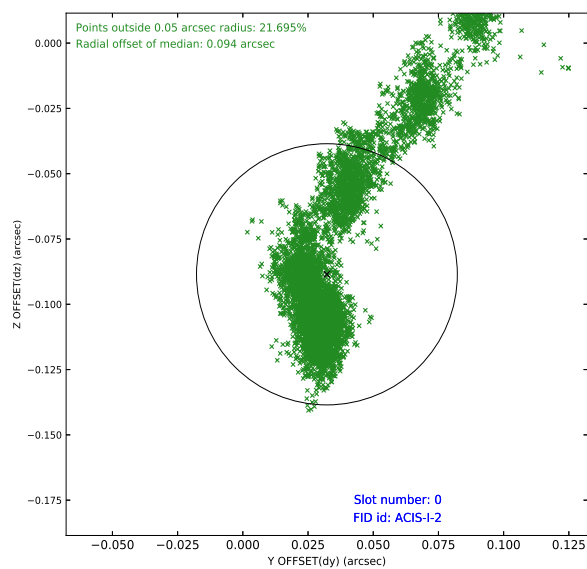
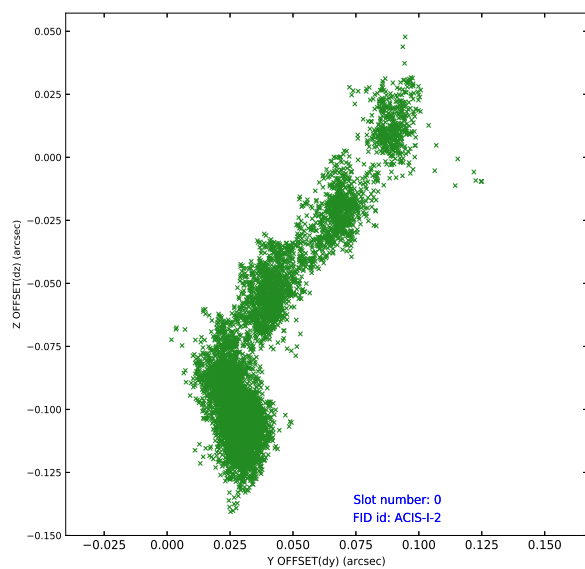


2.4.5 Slot 7

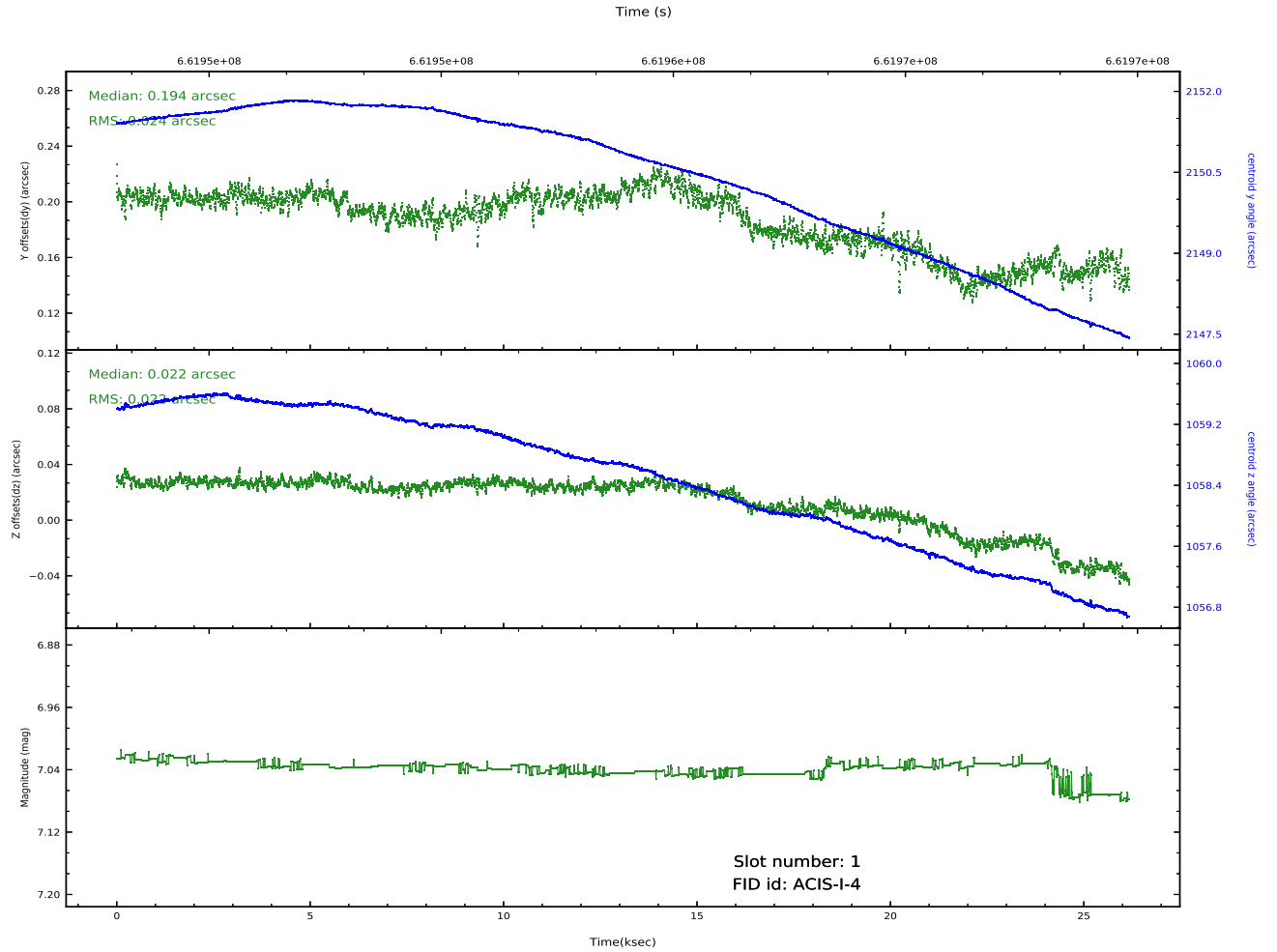
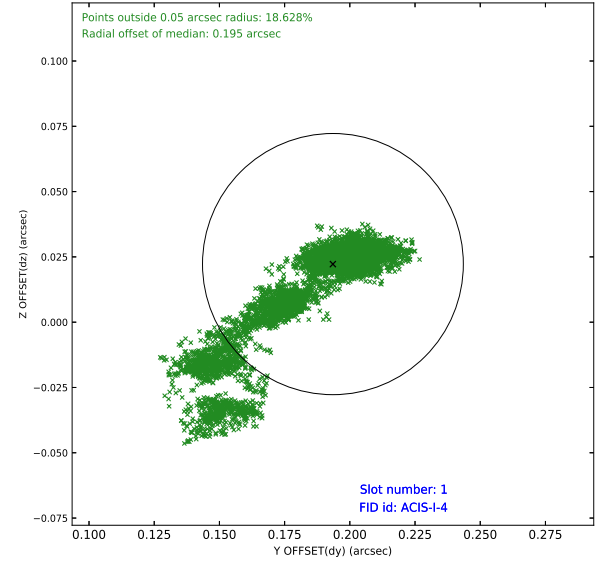
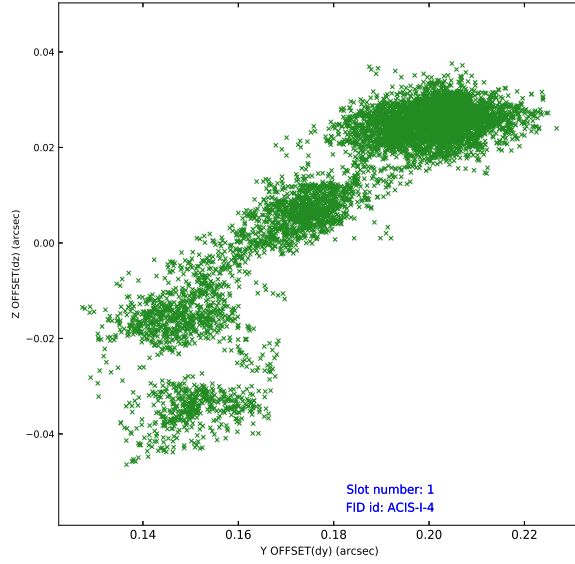


2.5 FID Slots

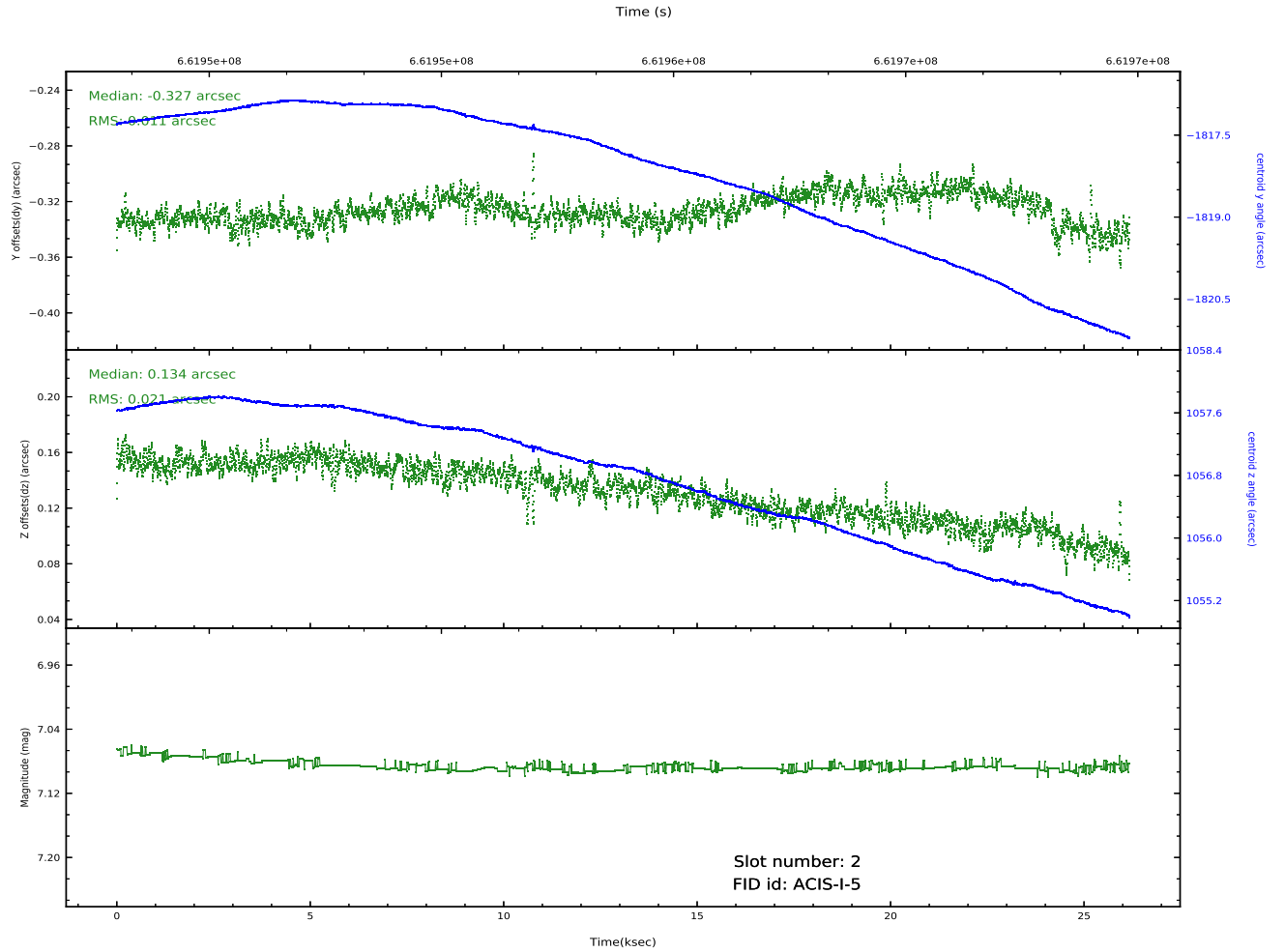
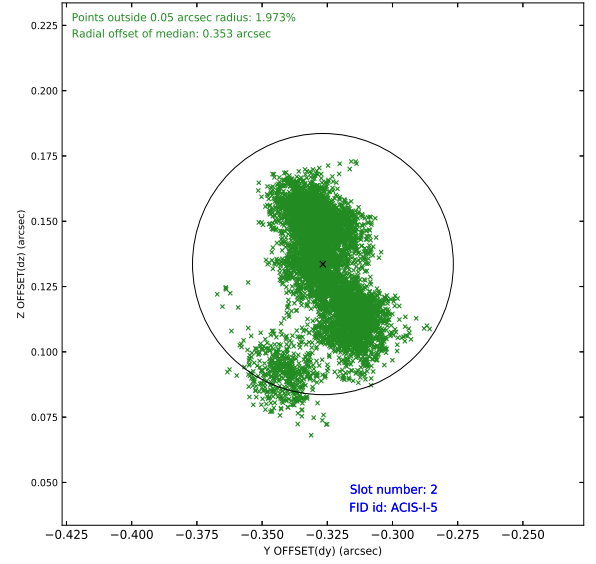
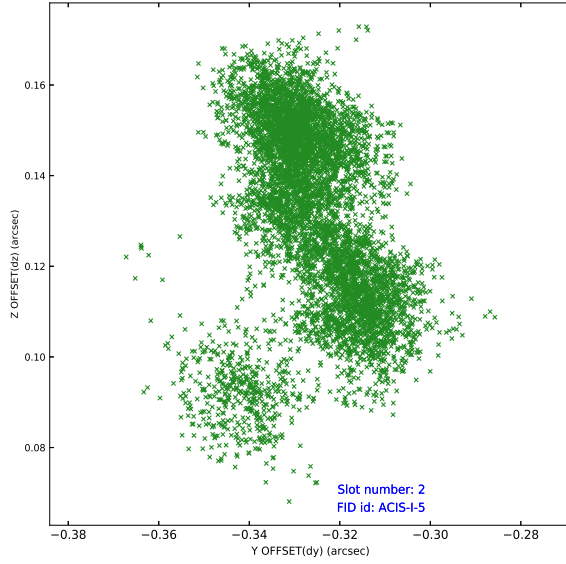
2.5.1 Slot 0



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)	2020.10.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.077200200677

A.2 Comments