

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 5803 - L2 Version 5
Chandra X-Ray Center

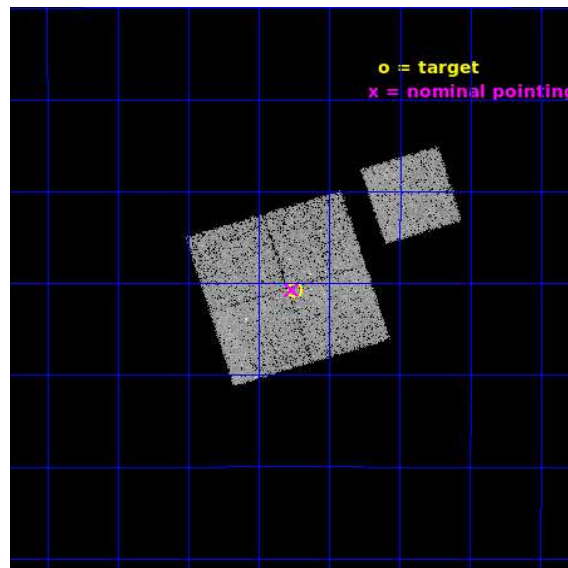
L2 Processing Date : Oct 19 2020

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1 Front

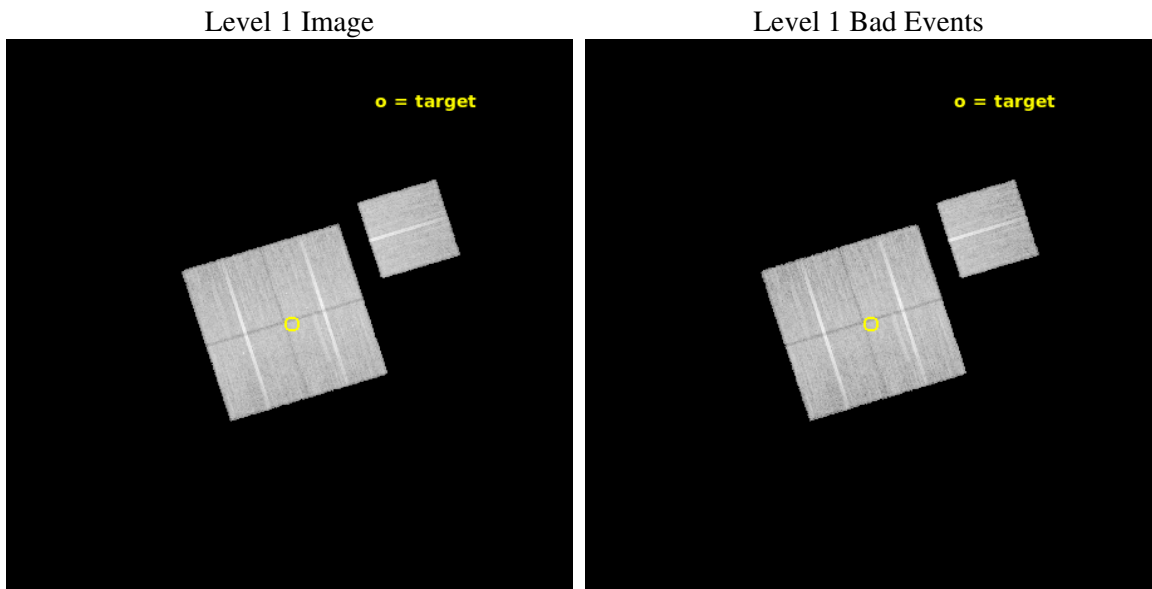
seq_num	800516	Sequence number
obs_id	5803	Observation id
title	Chandra Observations of the DLS Shear-Selected Cluster Survey	Prop
observer	John P. Hughes	Principal investigator
object	6dFGS gJ140236.2-105027	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	210.56125	Observer's specified target RA [deg]
dec_targ	-10.845833	Observer's specified target Dec [deg]
ra_nom	210.56638311054	Nominal RA [deg]
dec_nom	-10.845284779459	Nominal Dec [deg]
roll_nom	72.615344511976	Nominal Roll [deg]
revision	5	Processing version of data
ontime	21048.958959341	Sum of GTIs [s]
livetime	20773.938814519	Livetime [s]
ontime0	21042.583812386	Sum of GTIs [s]
ontime1	21052.047833055	Sum of GTIs [s]
ontime2	21048.947872907	Sum of GTIs [s]
ontime3	21048.958959341	Sum of GTIs [s]
ontime6	21051.965753049	Sum of GTIs [s]
l2events	55524	Number of level 2 events



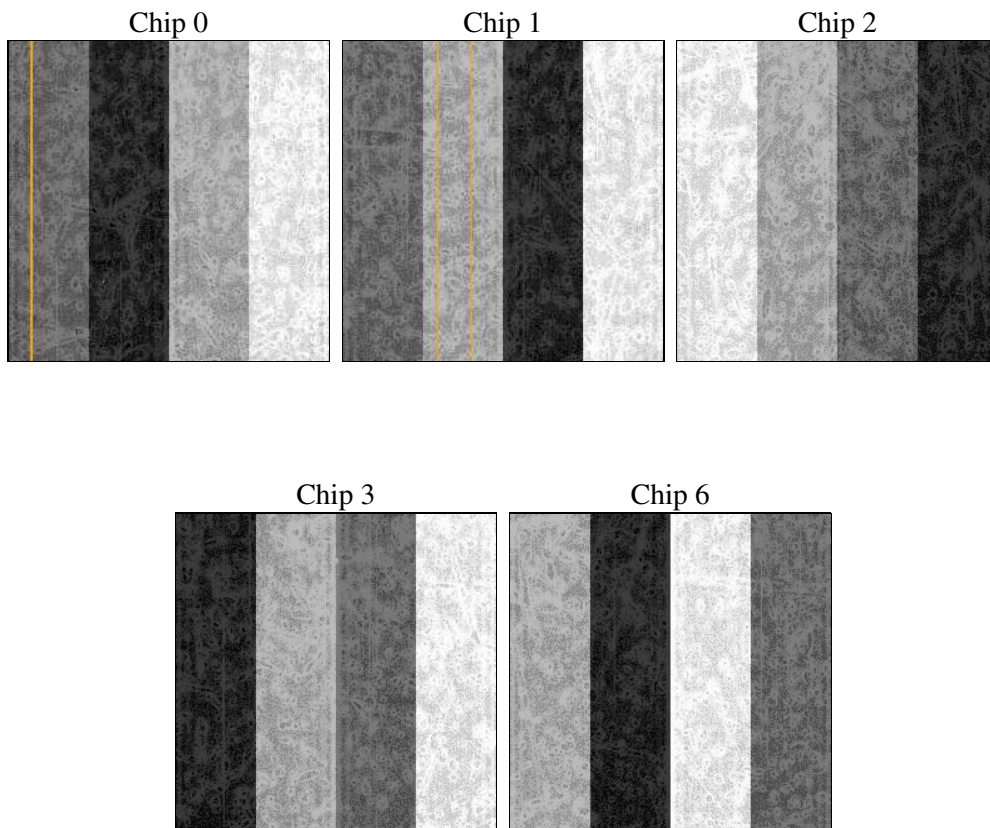
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	21000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	21048.958959341	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	21042.583812386	Sum of GTIs [s]
date	2020-10-19T14:14:03	Date and time of file creation	ontime1	21052.047833055	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	21048.947872907	Sum of GTIs [s]
			ontime3	21048.958959341	Sum of GTIs [s]
			ontime6	21051.965753049	Sum of GTIs [s]
			l1events	645769	Number of level 1 events

2.1.4 Events

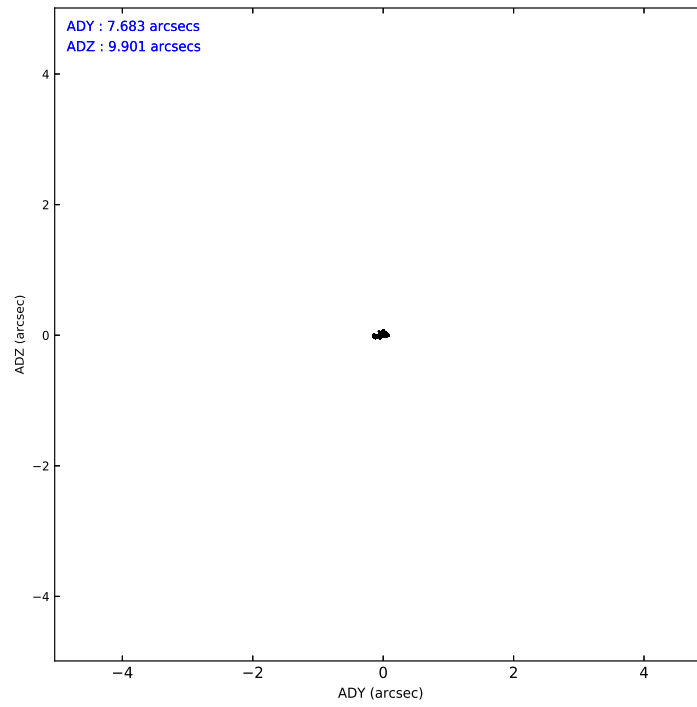
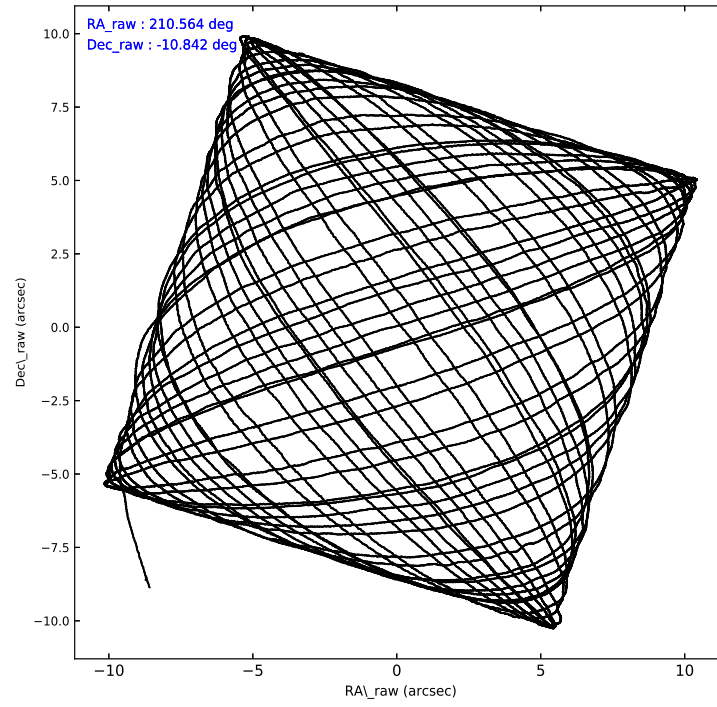
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	122726	123785	136274	133814	129170
rejected events	109780	108957	123193	121057	115872
rejected %	89%	88%	90%	90%	89%

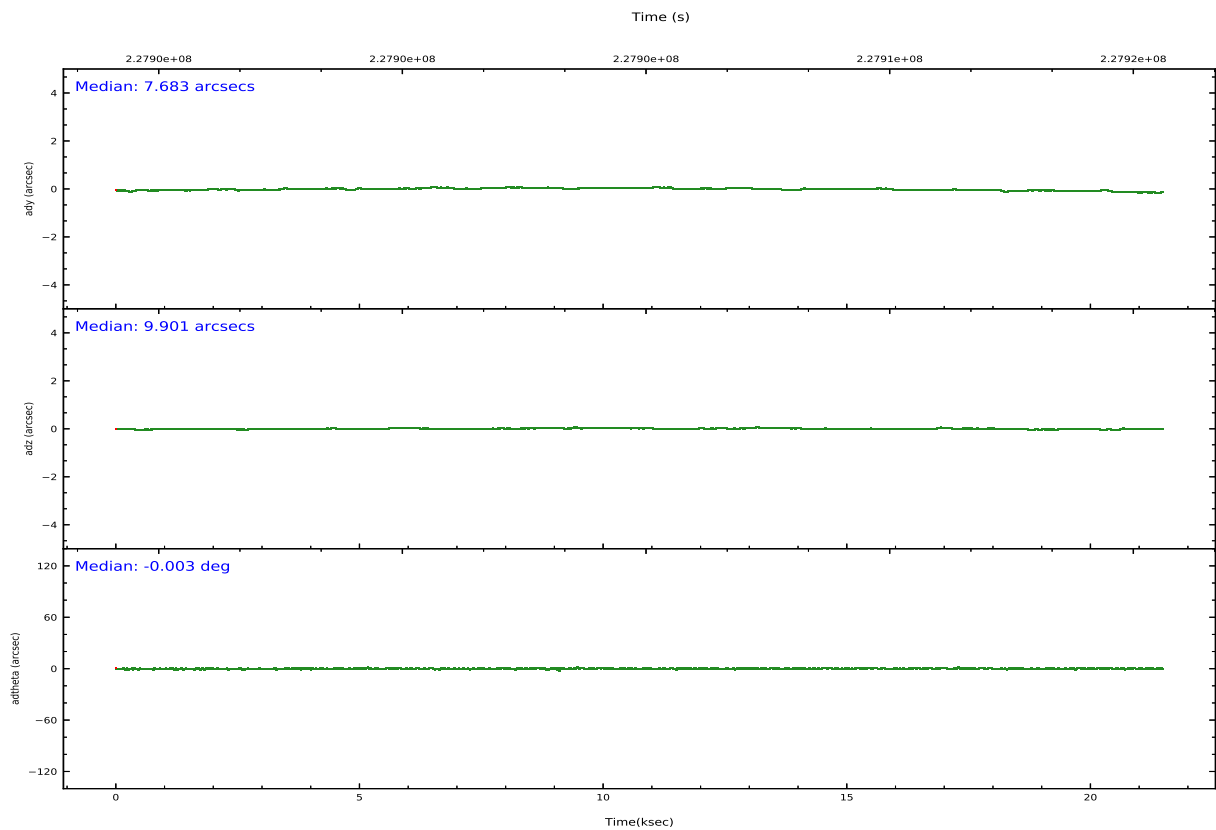
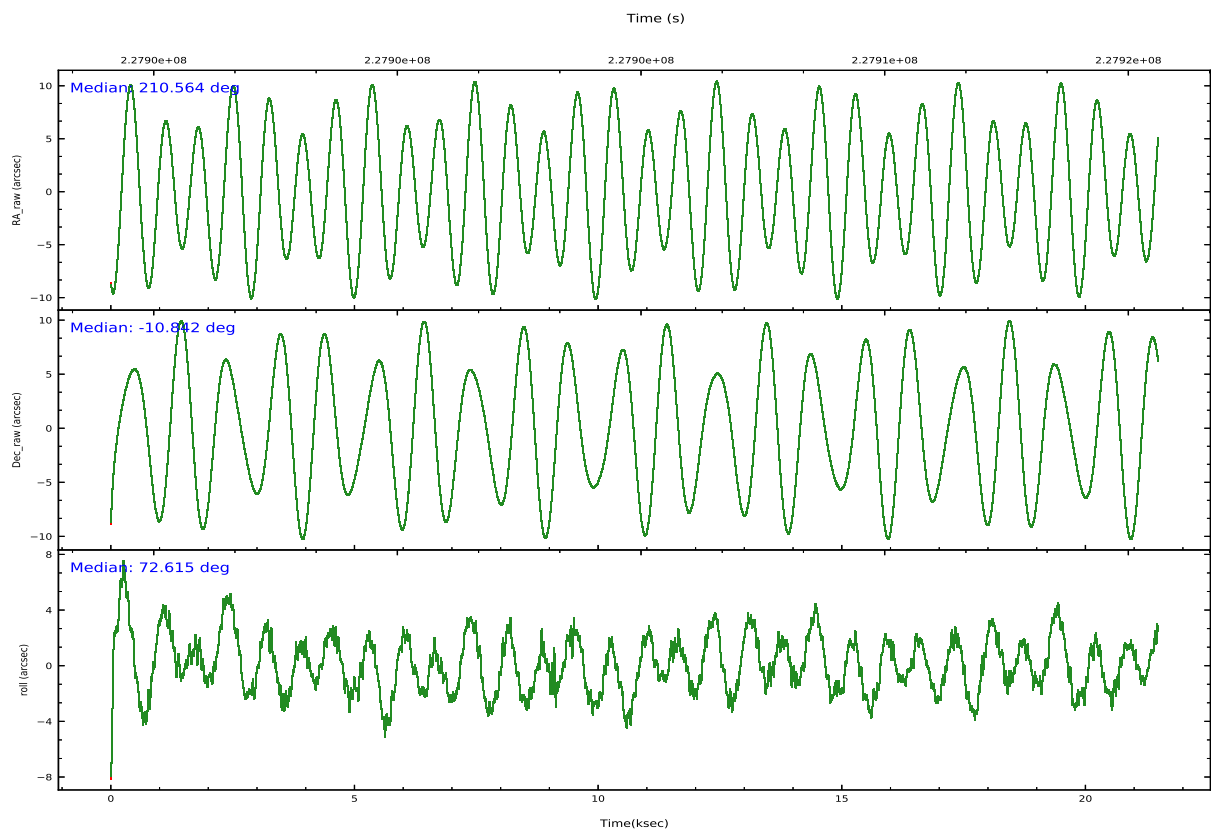
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4426	5428	4913	4684	4711
	3%	4%	3%	3%	3%
grade 1 events	78	74	59	85	54
	0%	0%	0%	0%	0%
grade 2 events	3146	3242	3036	2720	2875
	2%	2%	2%	2%	2%
grade 3 events	1502	1666	1459	1443	1506
	1%	1%	1%	1%	1%
grade 4 events	1428	1617	1398	1484	1440
	1%	1%	1%	1%	1%
grade 5 events	4520	4944	4577	5337	5275
	3%	3%	3%	3%	4%
grade 6 events	2449	2877	2278	2430	2770
	1%	2%	1%	1%	2%
grade 7 events	105177	103937	118554	115631	110539
	85%	83%	86%	86%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	210.570507	210.56638311054	Subarray requested	NONE	NONE
[deg] Pointing Dec	-10.868990	-10.845284779459	Alternating exposures requested	N	N
[deg] Pointing Roll	72.407725	72.61534451197601	[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)	227894612.184000	227893529.92714			
Observation start date	2005-03-22T16:02:28	2005-03-22T15:45:29			
[s] Observation end time (MET)	227915612.184000	227916166.54067			
Observation end date	2005-03-22T21:52:28	2005-03-22T22:02:46			
Read mode	TIMED	TIMED			

2.3 Aspect



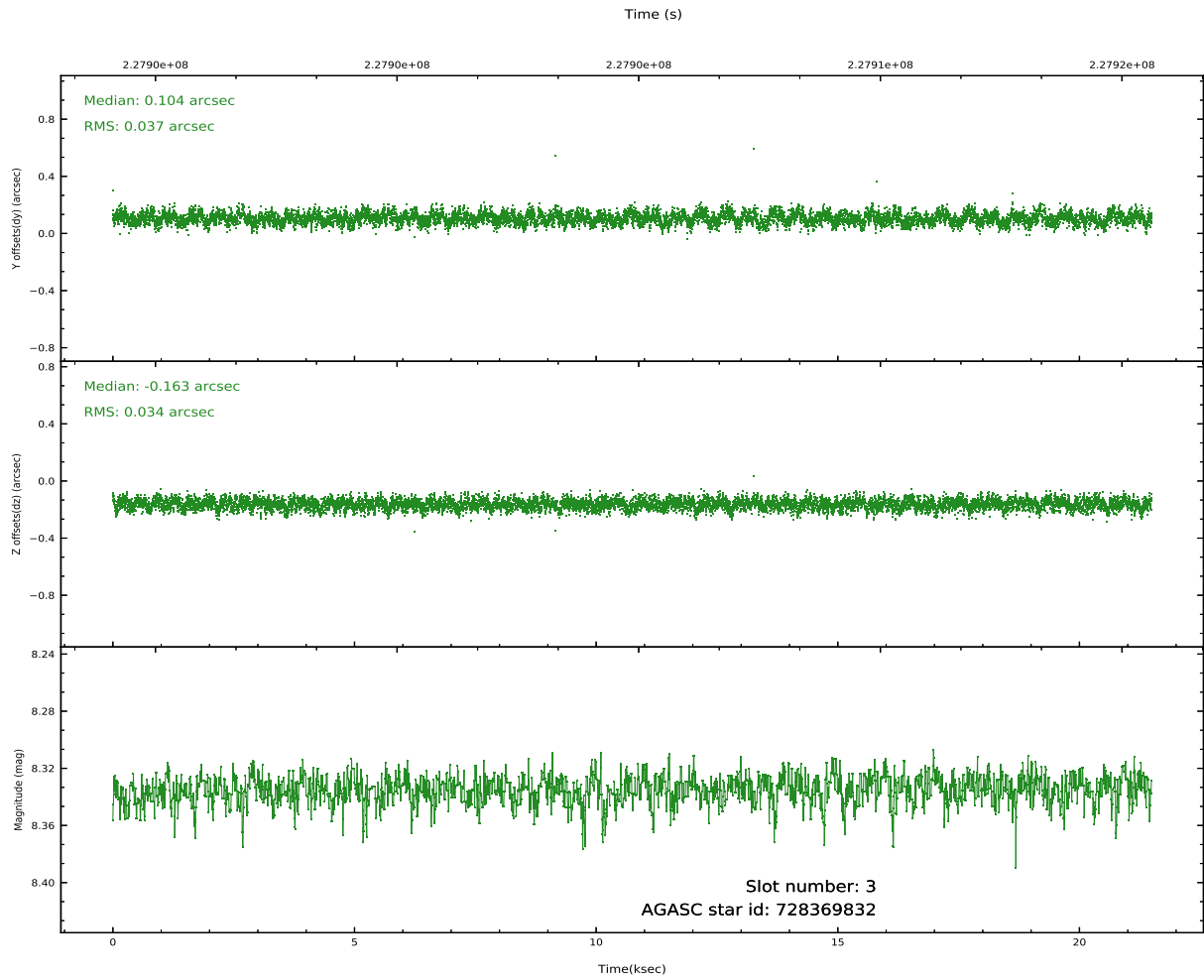
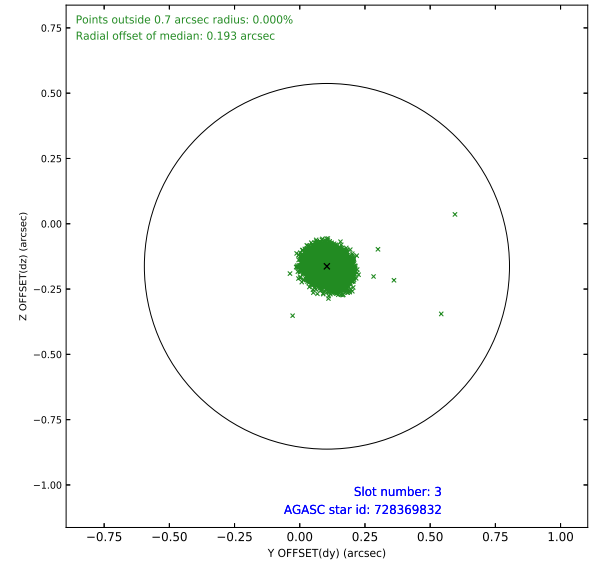
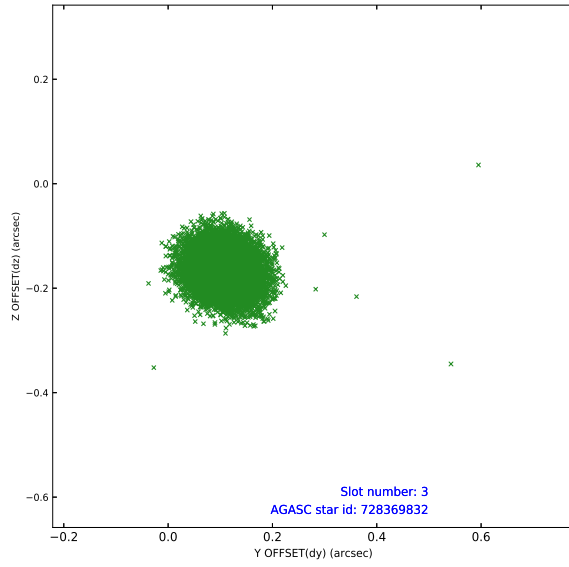


Slot Statistics

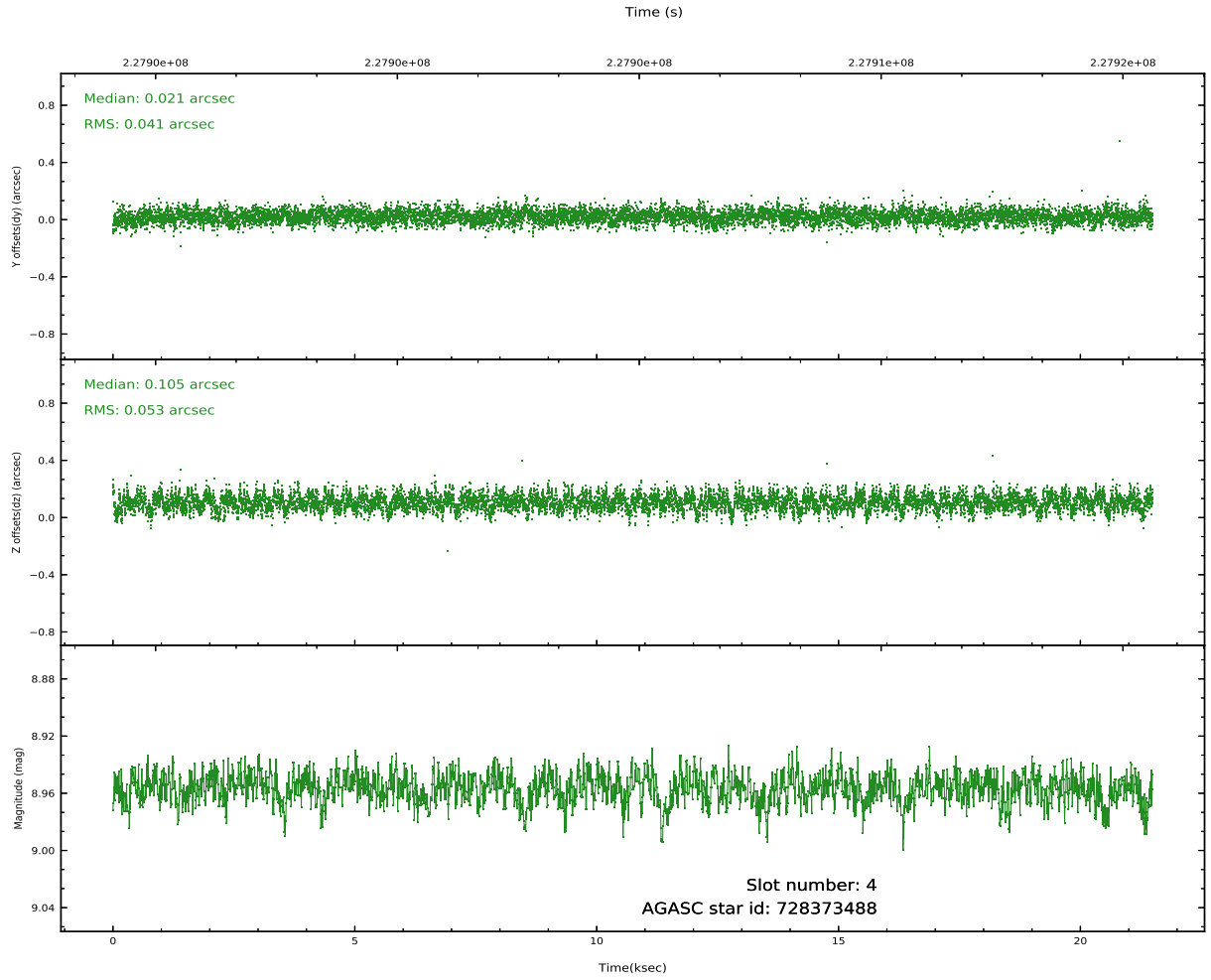
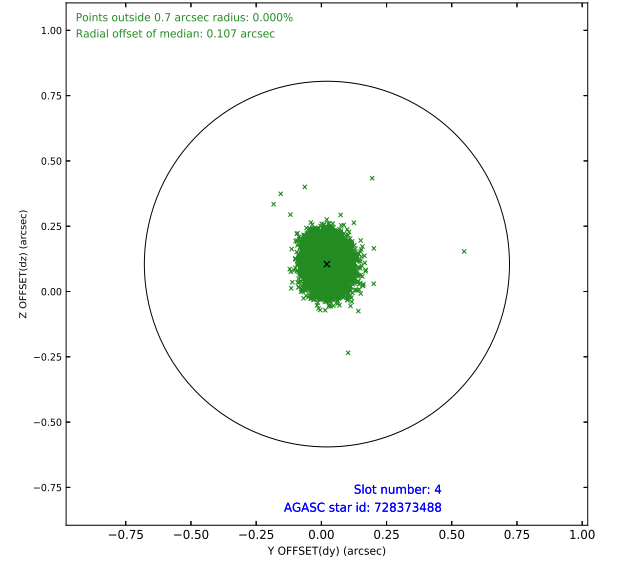
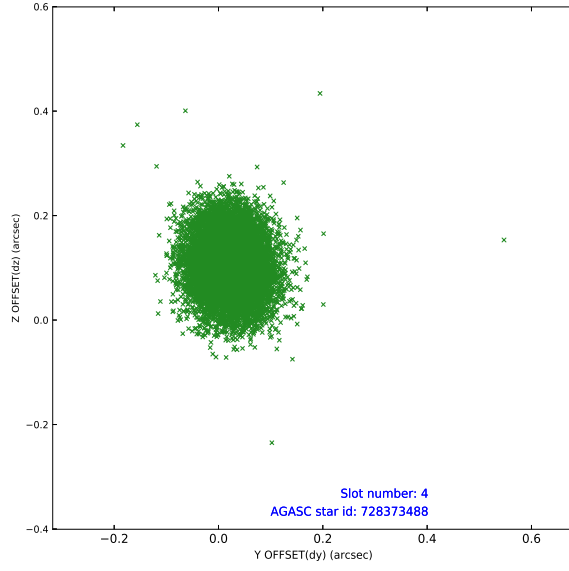
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	5243	1.000	0.020	-0.009	0.007	0.012	0.000000	0.000000	932.03	-833
1	FID		ACIS-I-5	7.23	5243	1.000	-0.211	0.021	0.006	0.011	0.000000	0.000000	-1816.24	1064
2	FID		ACIS-I-6	7.25	5242	1.000	0.100	0.058	0.007	0.011	0.000000	0.000000	397.45	1708
3	GUIDE	used	728369832	8.34	10485	1.000	0.104	-0.163	0.053	0.086	210.251544	-11.309313	-1851.65	593
4	GUIDE	used	728373488	8.96	10482	1.000	0.021	0.105	0.071	0.114	210.737272	-10.465613	1562.67	-123
5	GUIDE	used	728376288	9.03	10475	1.000	-0.059	-0.076	0.077	0.125	210.308344	-10.377325	1406.45	1419
6	GUIDE	used	728377784	7.89	10484	1.000	-0.003	-0.011	0.050	0.081	210.974476	-11.272975	-955.75	-1799
7	GUIDE	used	728373224	9.13	10481	1.000	-0.062	0.151	0.085	0.138	211.096147	-11.494941	-1589.03	-2449

2.4 Star Slots

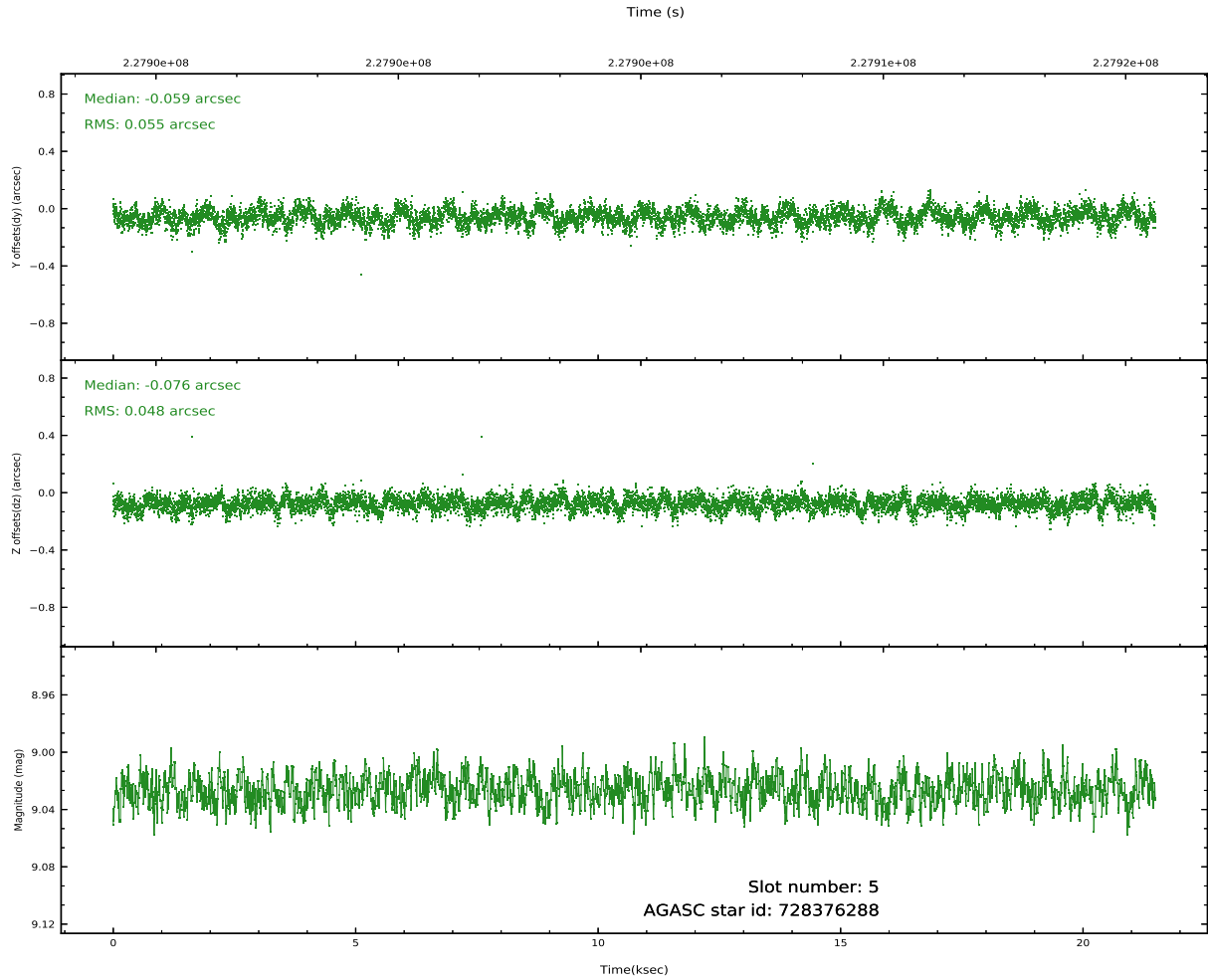
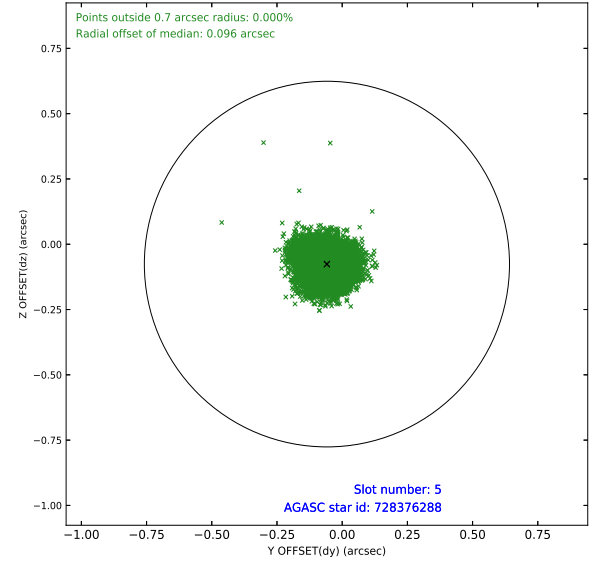
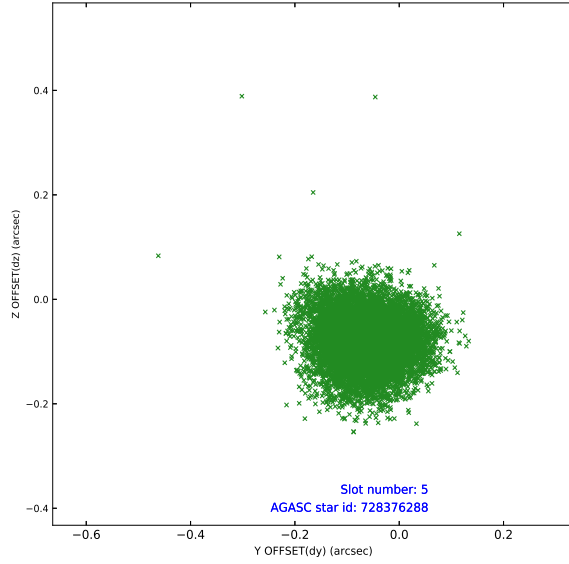
2.4.1 Slot 3



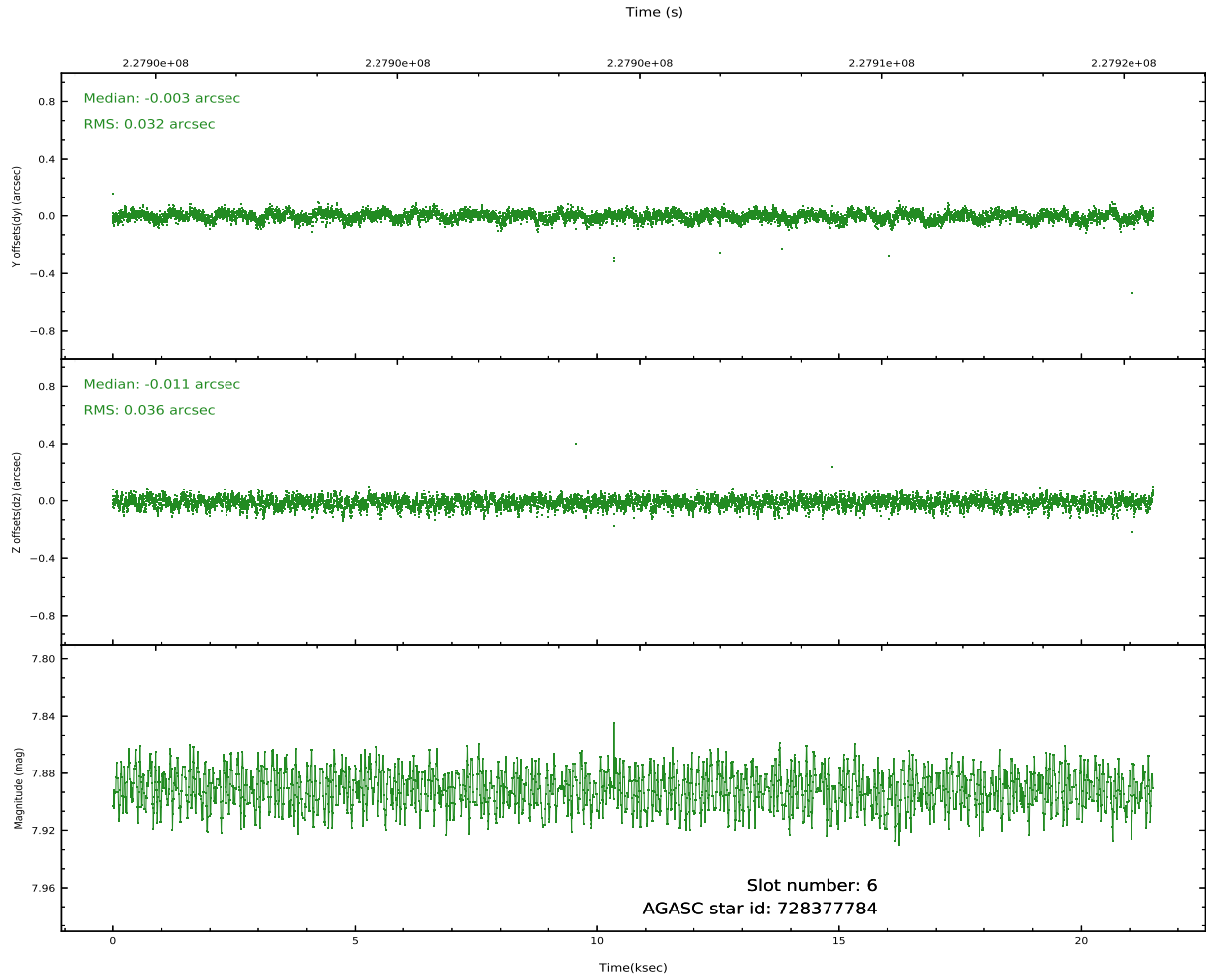
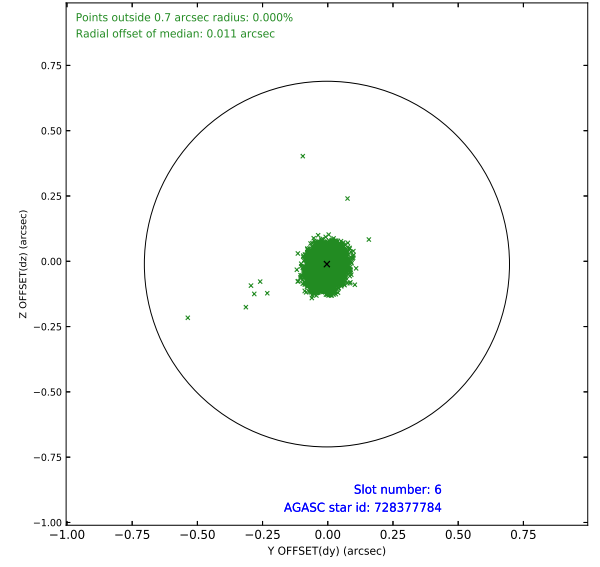
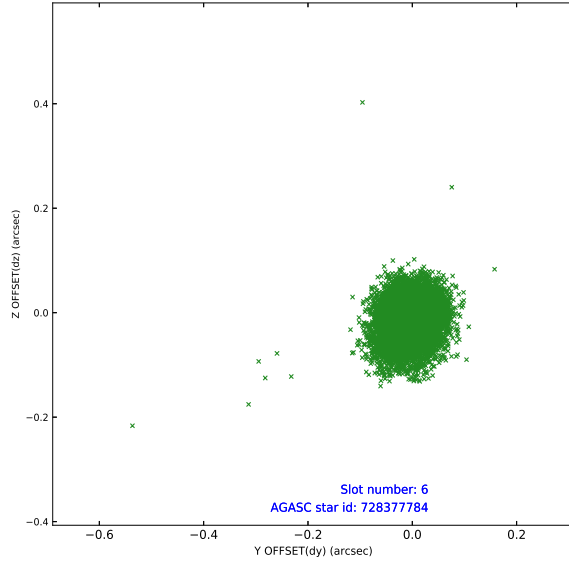
2.4.2 Slot 4



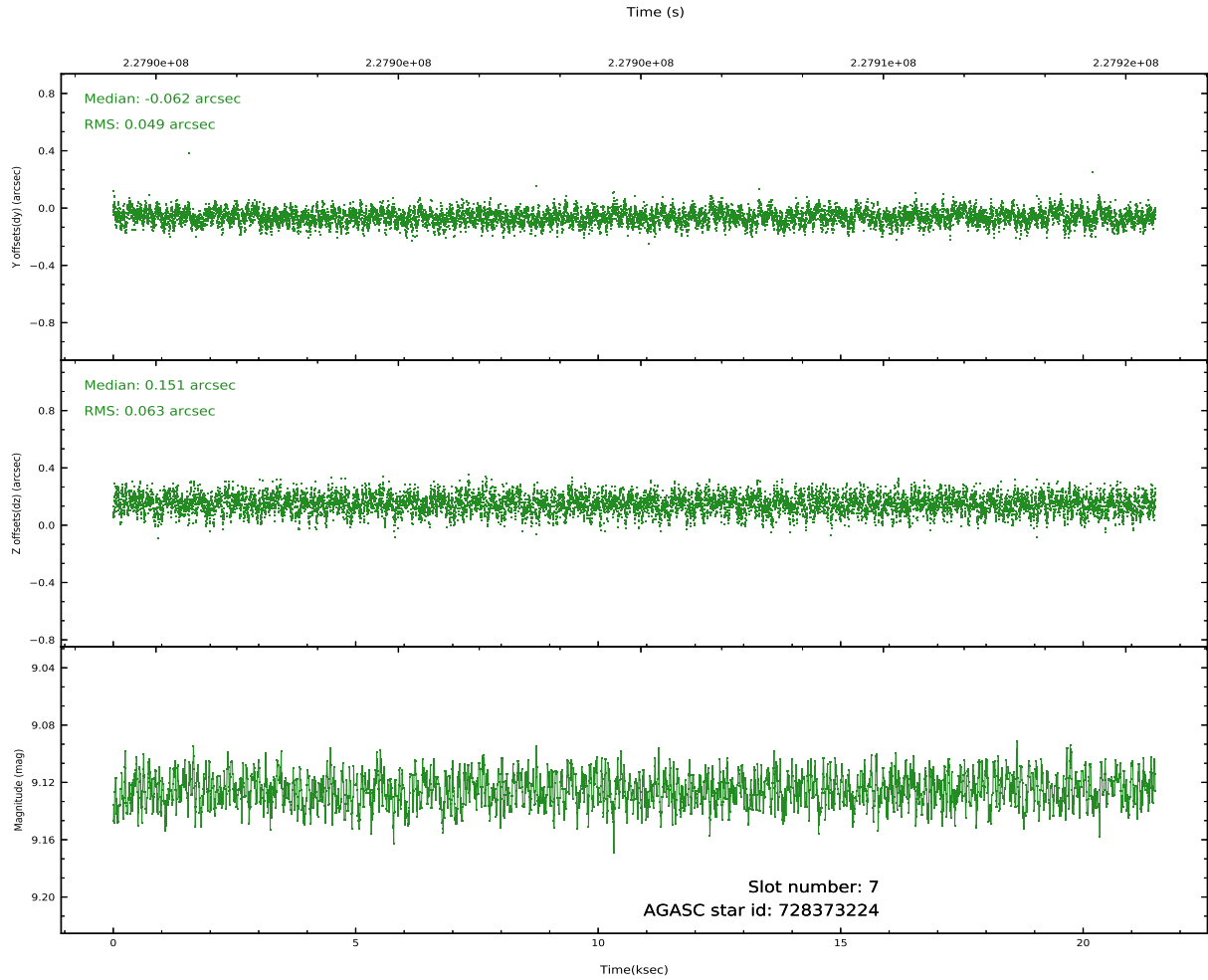
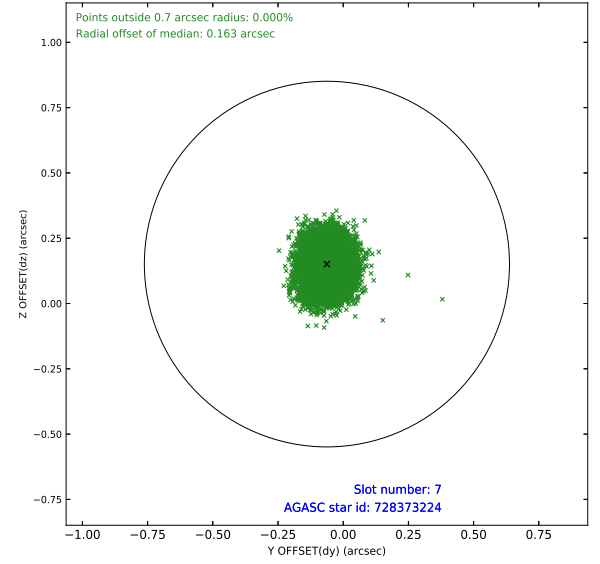
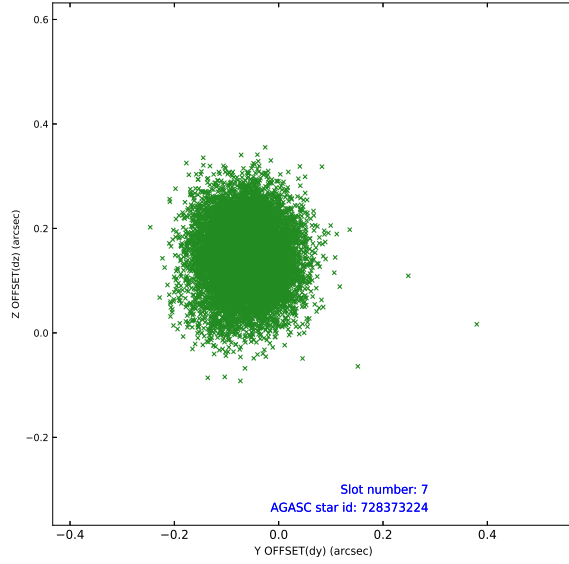
2.4.3 Slot 5



2.4.4 Slot 6

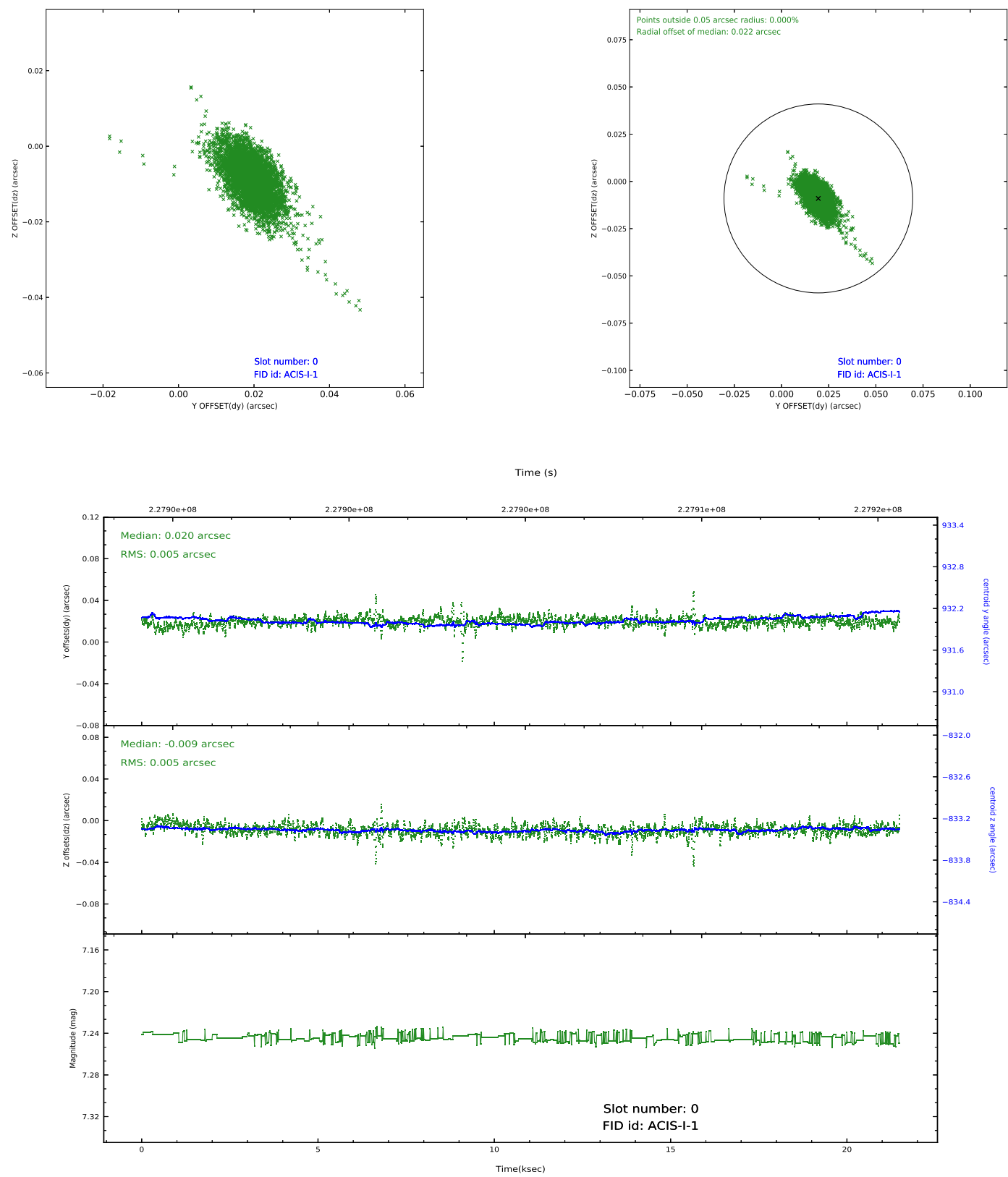


2.4.5 Slot 7

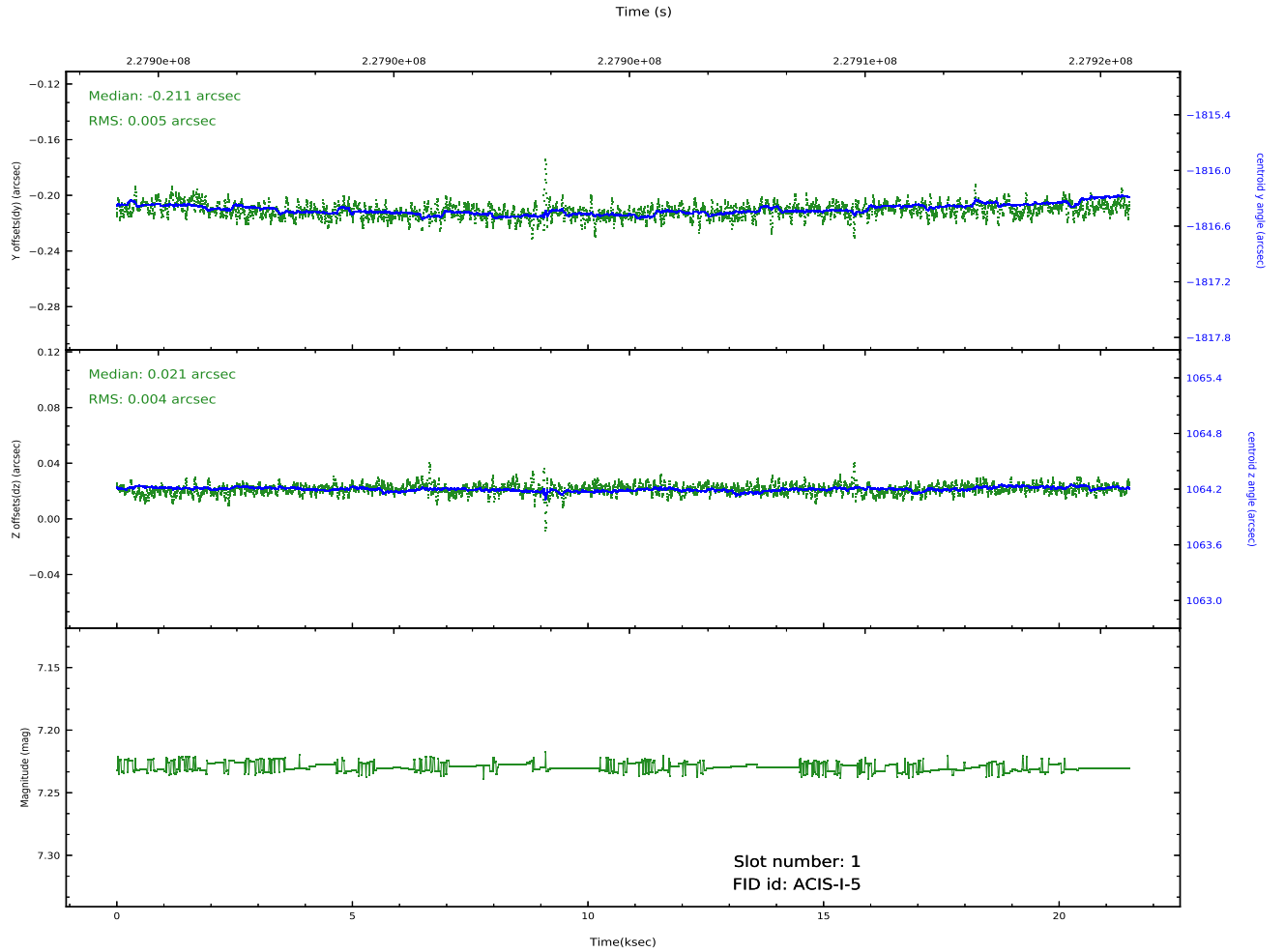
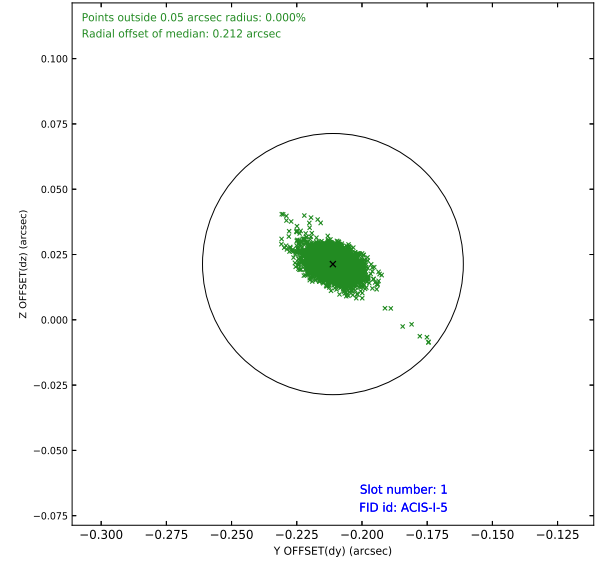
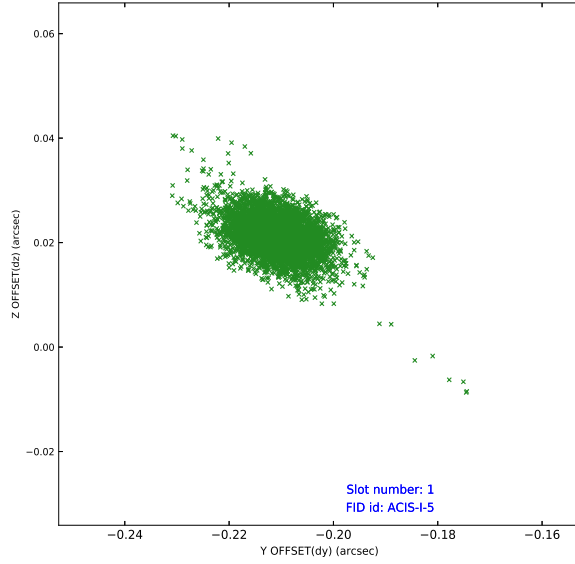


2.5 FID Slots

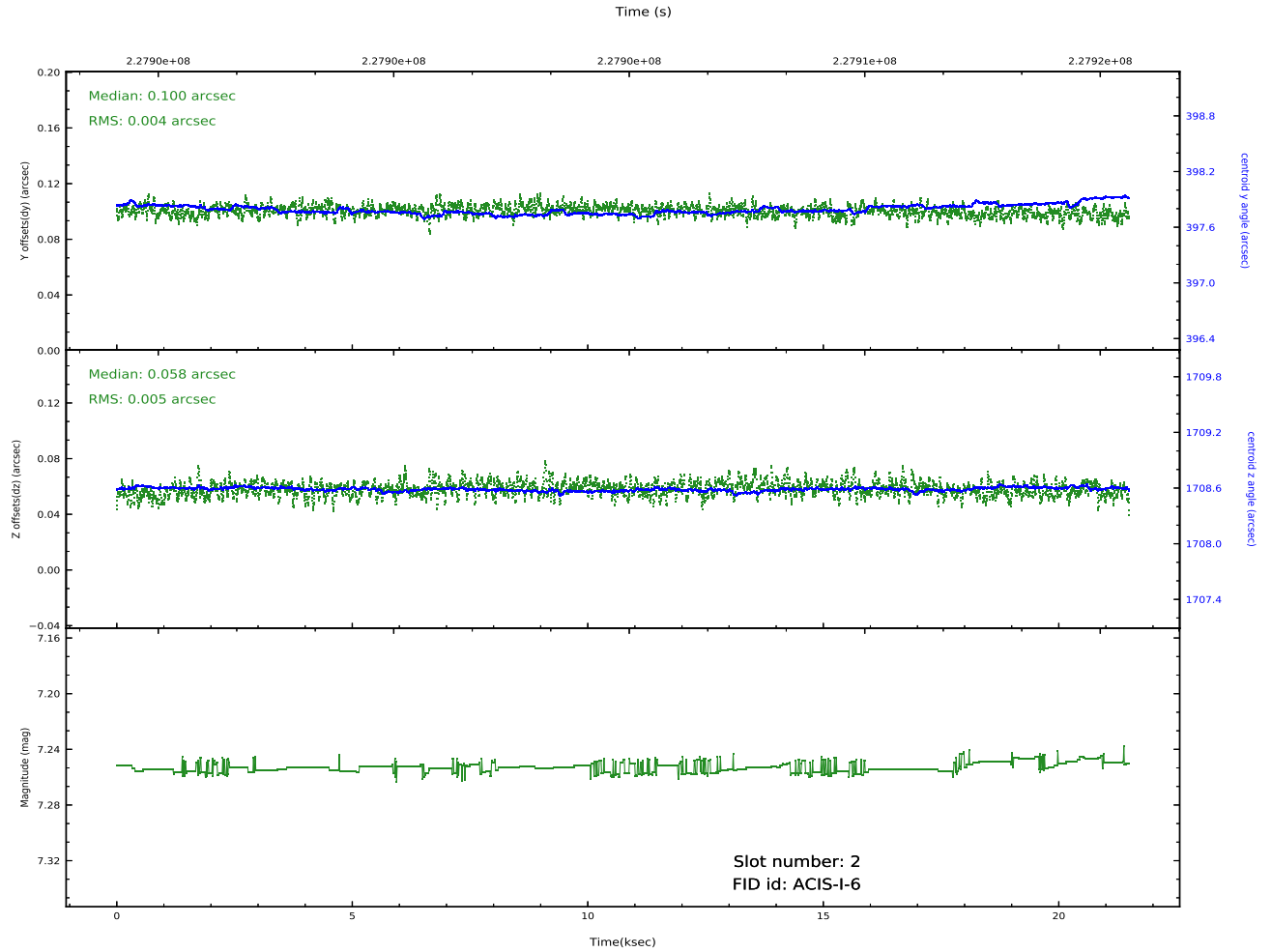
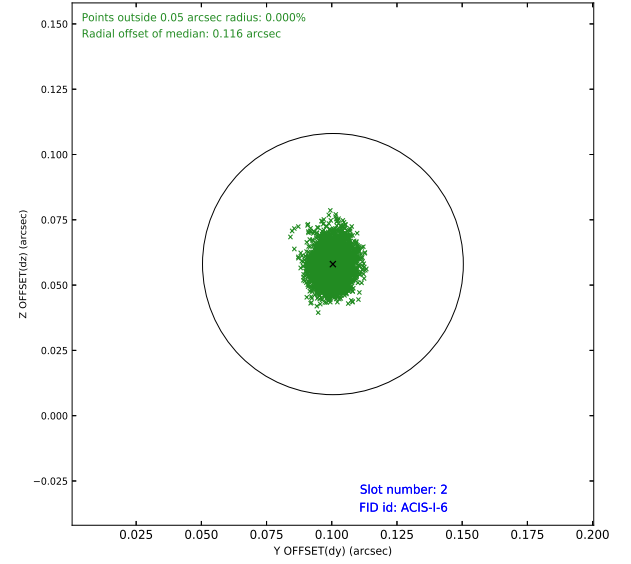
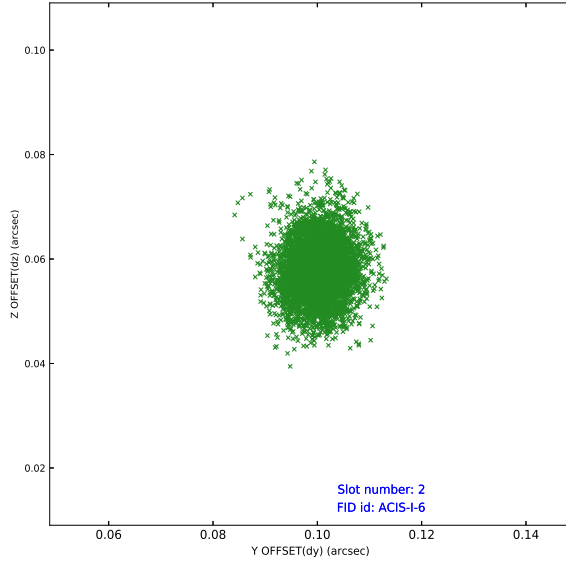
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.04895

A.2 Comments

A spatial region of the original bias map for CCD = 6 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 6 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(210.29826, -10.70663), (210.29506, -10.71666), (210.40456, -10.75033), (210.40776, -10.74030).