

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19661 - L2 Version 2
Chandra X-Ray Center

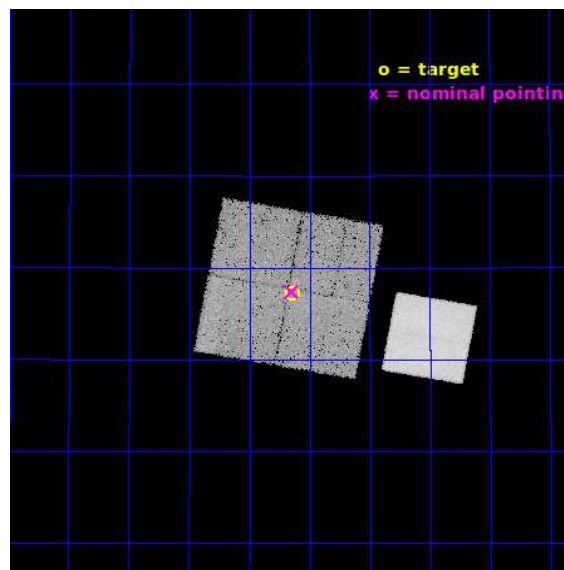
L2 Processing Date : Oct 24 2020

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1 Front

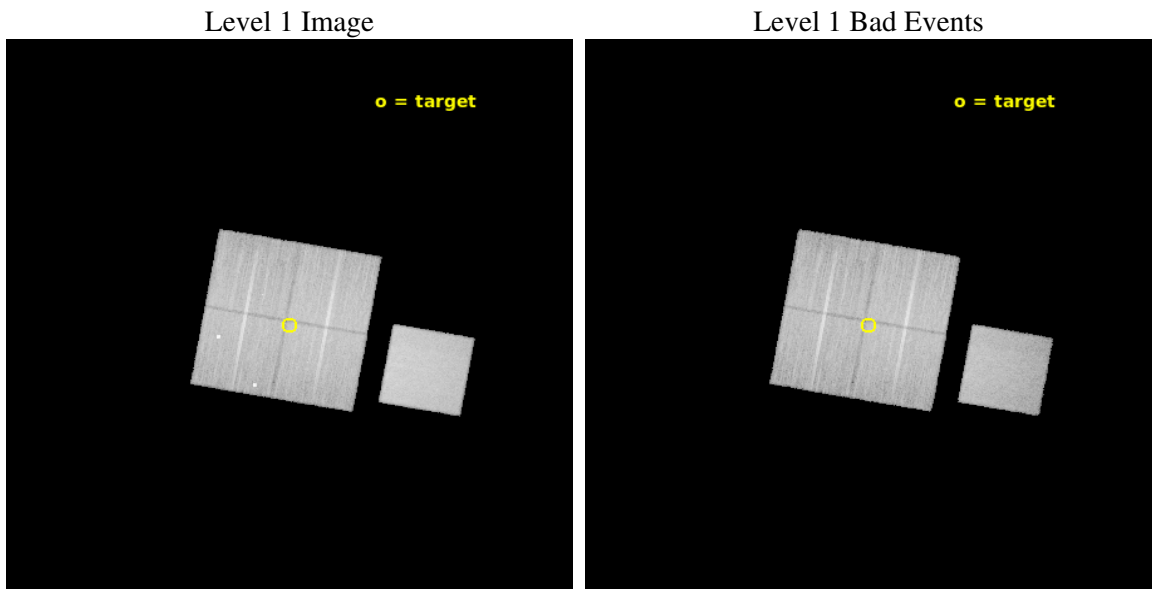
seq_num	901368	Sequence number
obs_id	19661	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.28554	Observer's specified target RA [deg]
dec_targ	33.11997	Observer's specified target Dec [deg]
ra_nom	217.2867145901	Nominal RA [deg]
dec_nom	33.123495644756	Nominal Dec [deg]
roll_nom	100.20316750523	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25047.918111801	Sum of GTIs [s]
livetime	24720.648621661	Livetime [s]
ontime0	25051.059152603	Sum of GTIs [s]
ontime1	25054.200192809	Sum of GTIs [s]
ontime2	25054.200192809	Sum of GTIs [s]
ontime3	25047.918111801	Sum of GTIs [s]
ontime7	25054.200192809	Sum of GTIs [s]
l2events	165626	Number of level 2 events



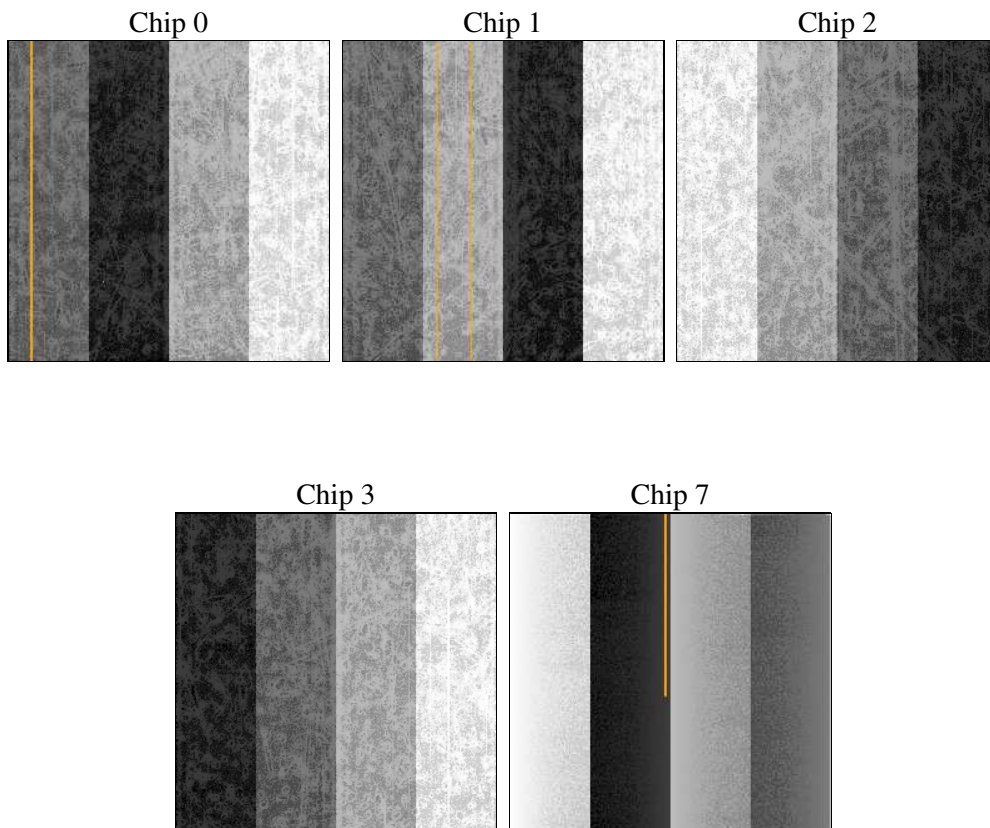
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	25047.918111801	Sum of GTIs [s]
caldbver	4.9.3	 	ontime0	25051.059152603	Sum of GTIs [s]
date	2020-10-25T01:43:05	Date and time of file creation	ontime1	25054.200192809	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25054.200192809	Sum of GTIs [s]
			ontime3	25047.918111801	Sum of GTIs [s]
			ontime7	25054.200192809	Sum of GTIs [s]
			l1events	973610	Number of level 1 events

2.1.4 Events

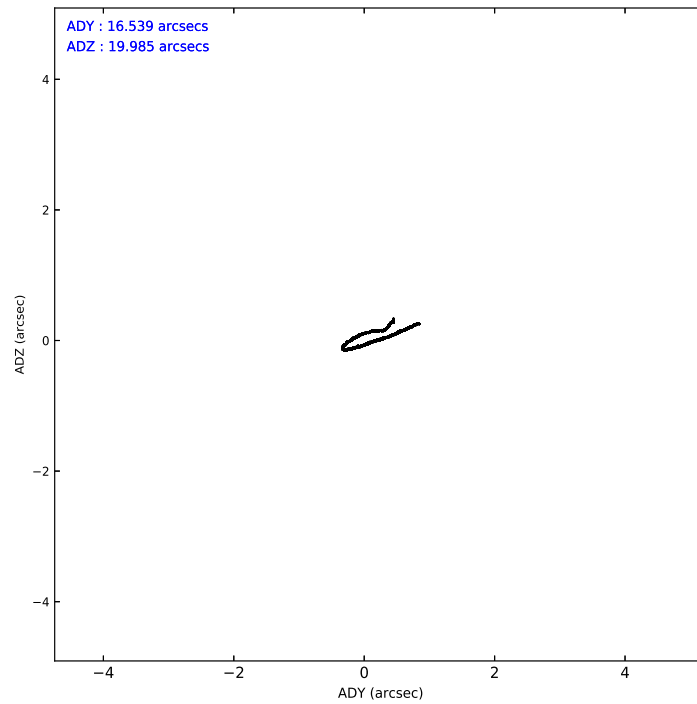
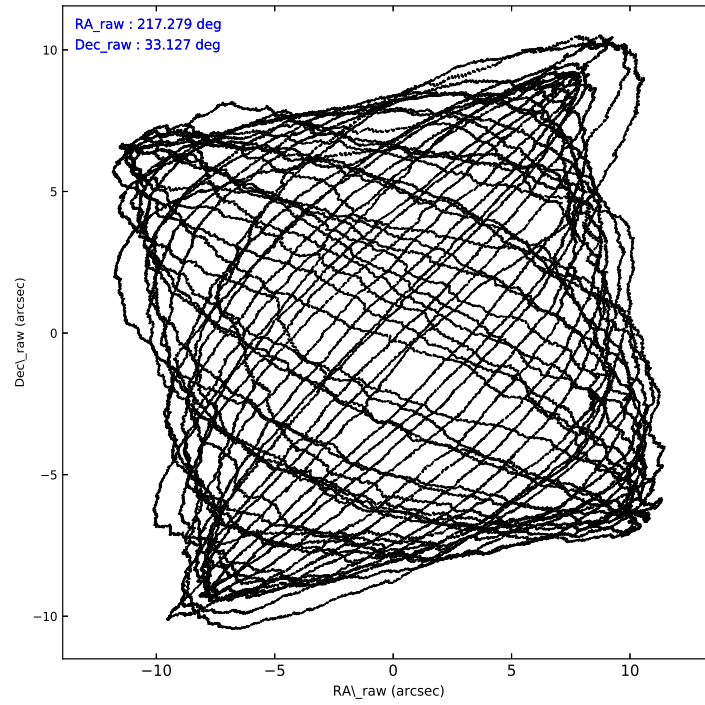
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	173727	180426	199879	180948	238630
rejected events	153746	154136	180925	162072	136545
rejected %	88%	85%	90%	89%	57%

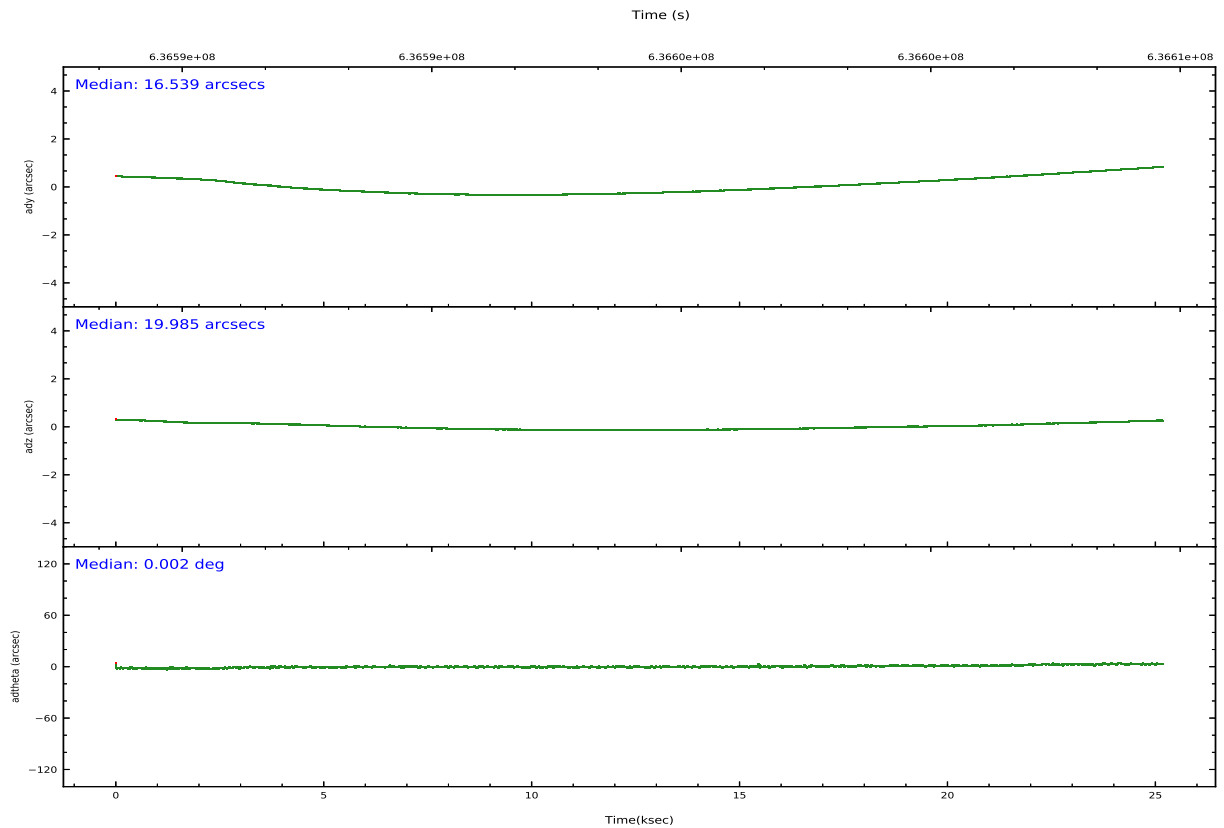
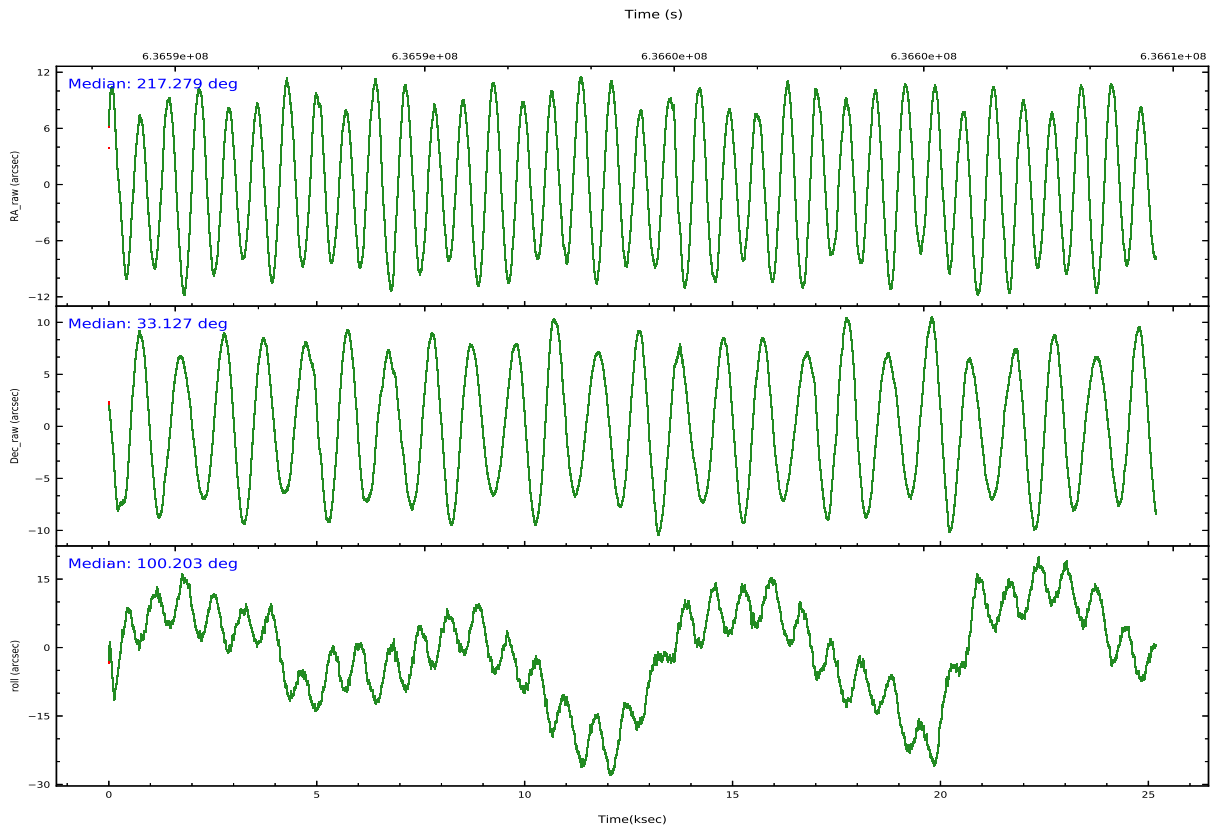
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6773	11247	6464	6573	8408
	3%	6%	3%	3%	3%
grade 1 events	107	161	102	104	369
	0%	0%	0%	0%	0%
grade 2 events	4933	5741	4693	4188	21032
	2%	3%	2%	2%	8%
grade 3 events	2071	2036	1932	2012	8153
	1%	1%	0%	1%	3%
grade 4 events	1946	2067	1995	2005	8057
	1%	1%	0%	1%	3%
grade 5 events	7546	7868	7082	8419	23183
	4%	4%	3%	4%	9%
grade 6 events	4261	5201	3873	4103	56460
	2%	2%	1%	2%	23%
grade 7 events	146090	146105	173738	153544	112968
	84%	80%	86%	84%	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	217.300299	217.2867145901	CCD I2 on	Y	Y
[deg] Pointing Dec	33.106218	33.123495644756	CCD I3 on	Y	Y
[deg] Pointing Roll	99.991934	100.20316750523	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)	636584589.184000	636583725.75937	CCD S5 on	N	N
Observation start date	2018-03-04T21:02:00	2018-03-04T20:48:45	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	636609589.184000	636609784.3358999	On-chip summing requested	N	N
Observation end date	2018-03-05T03:58:40	2018-03-05T04:03:04	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





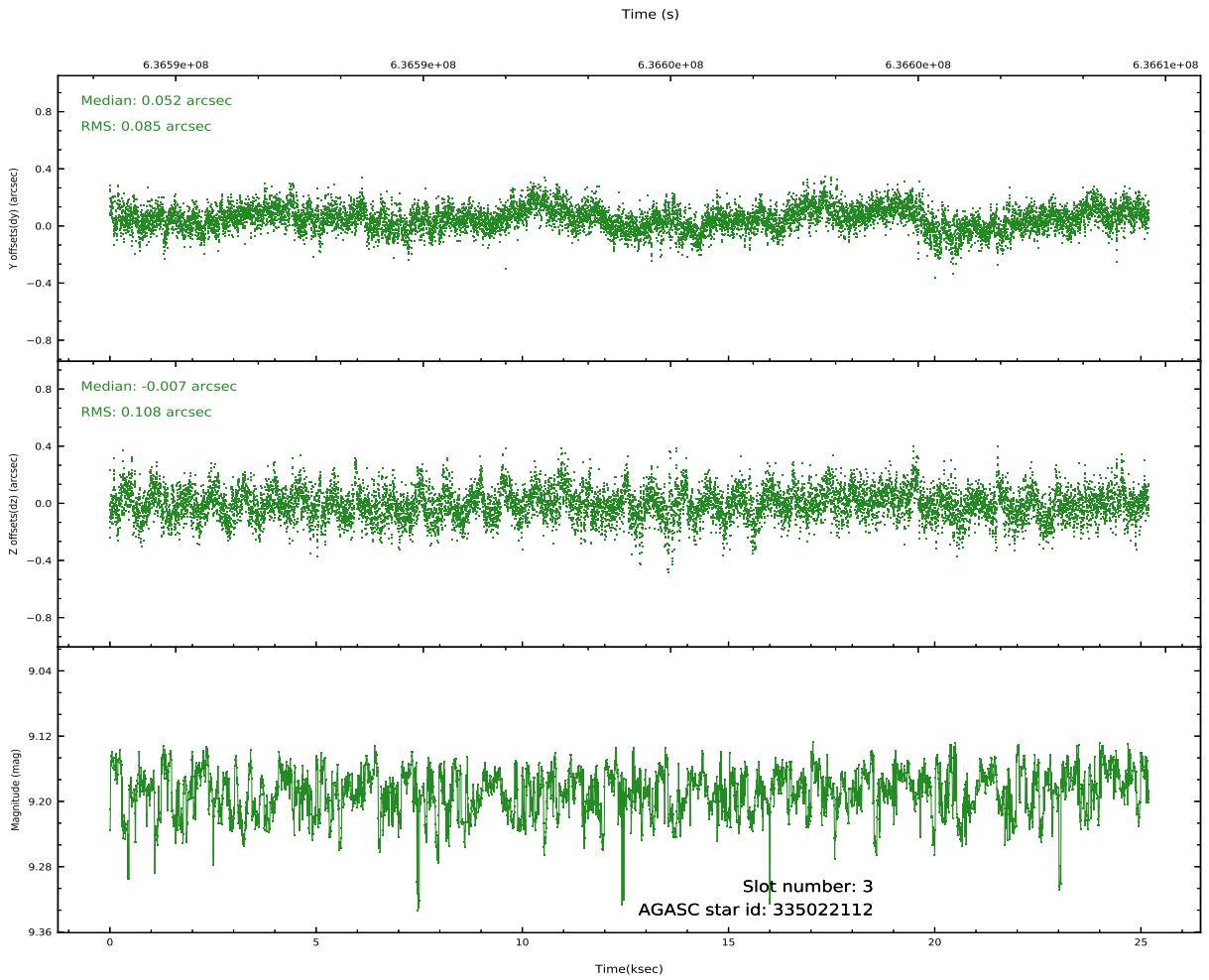
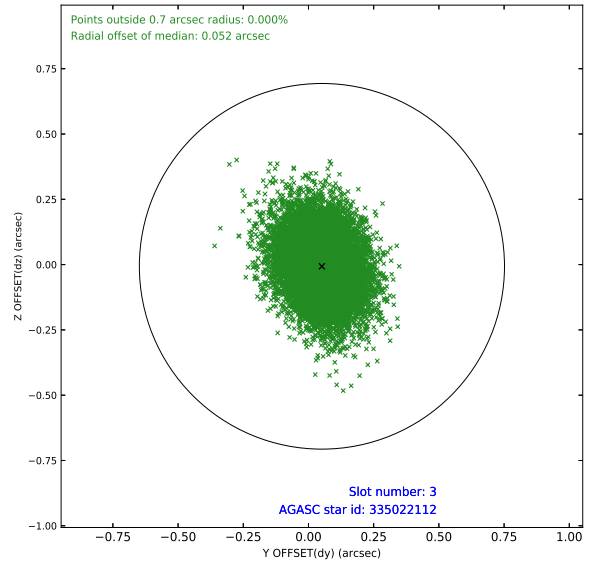
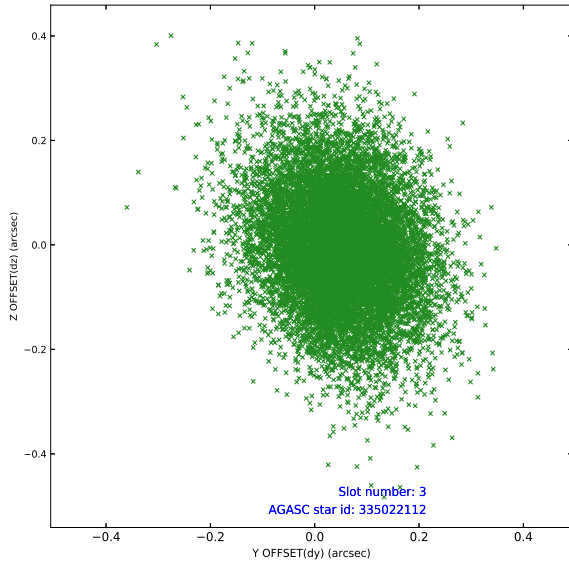
Slot Statistics

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	7.18	6142	1.000	0.143	-0.103	0.012	0.020	0.000000	0.000000	922.88	-843
1	FID		ACIS-I-4	7.12	6144	1.000	0.111	0.027	0.014	0.023	0.000000	0.000000	2143.10	1055
2	FID		ACIS-I-5	7.17	6144	1.000	-0.351	0.147	0.013	0.022	0.000000	0.000000	-1825.32	1054
3	GUIDE	used	335022112	9.19	12277	1.000	0.052	-0.007	0.145	0.241	216.659296	32.794758	-762.60	2104
4	GUIDE	used	335028240	9.11	12217	1.000	0.138	-0.212	0.144	0.252	216.746851	33.385009	1282.52	1464
5	GUIDE	used	335029384	8.47	12280	1.000	0.070	0.209	0.136	0.236	217.848061	33.088477	-345.24	-1616
6	GUIDE	used	335029808	9.02	12275	1.000	-0.323	-0.129	0.155	0.261	216.789548	33.180488	534.14	1468
7	GUIDE	used	335027640	9.07	12269	1.000	0.065	0.140	0.178	0.291	218.092211	33.193770	-93.84	-2405

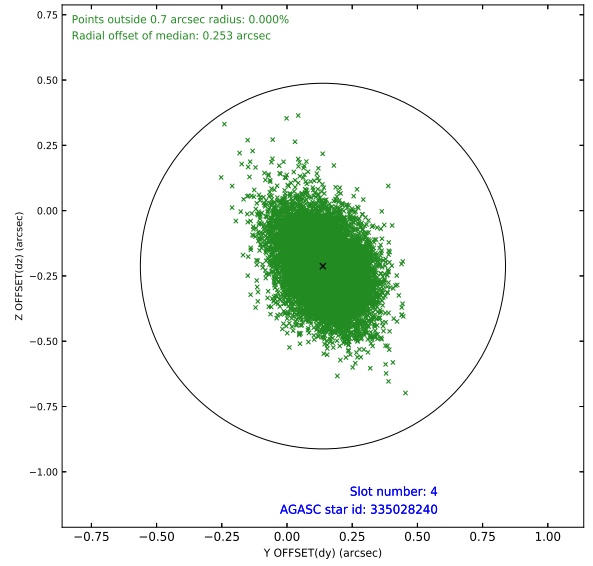
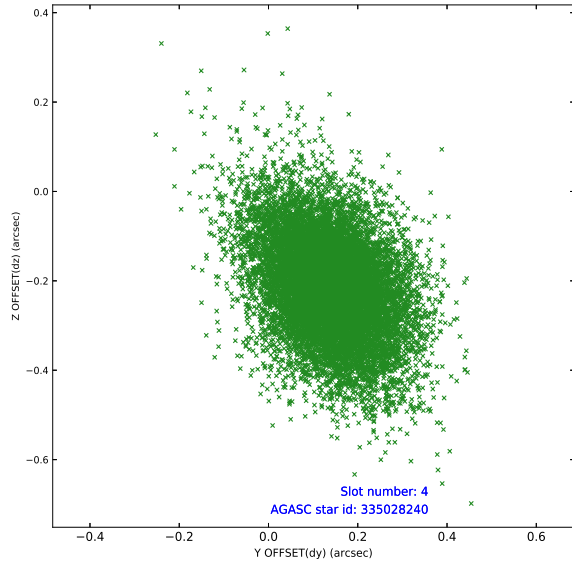
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2.4 Star Slots

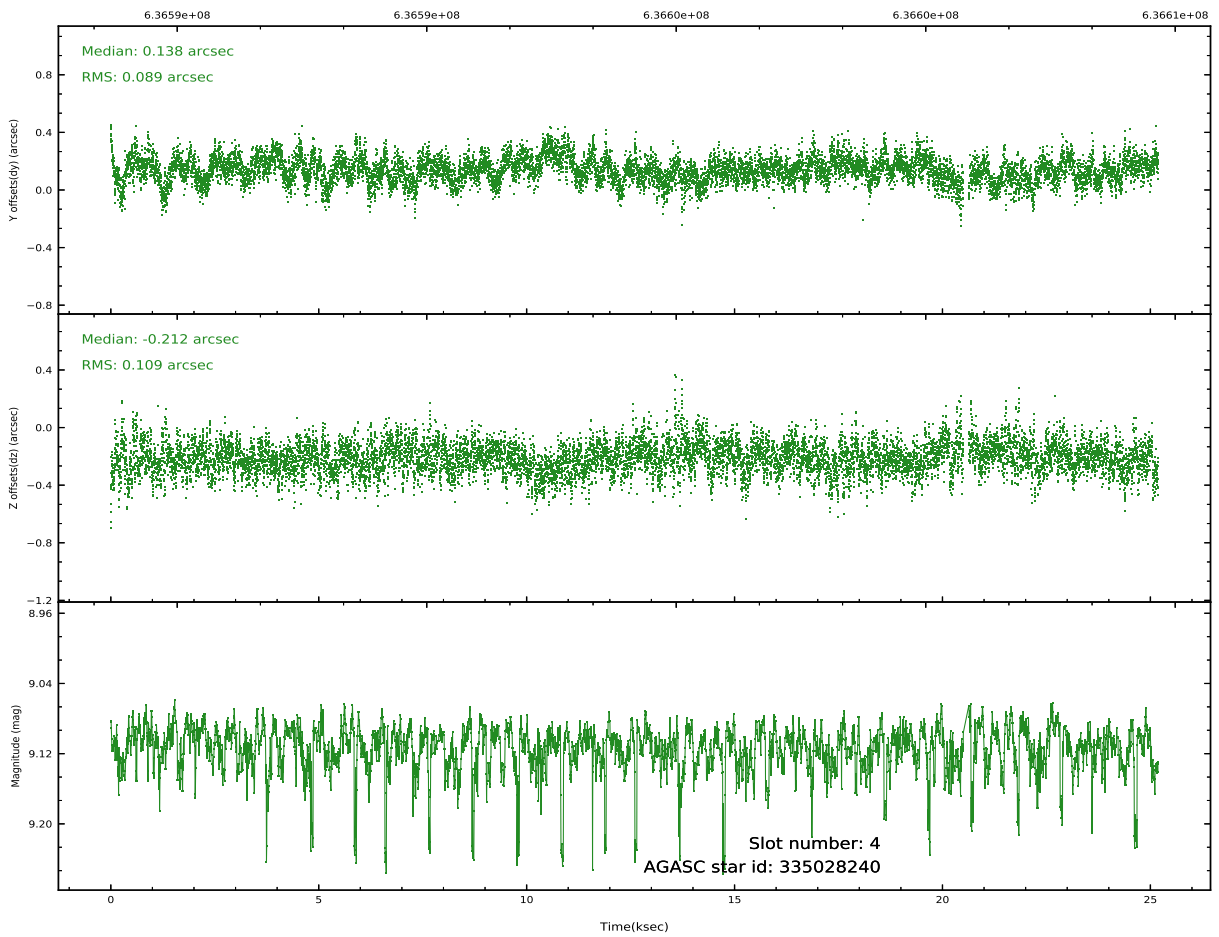
2.4.1 Slot 3



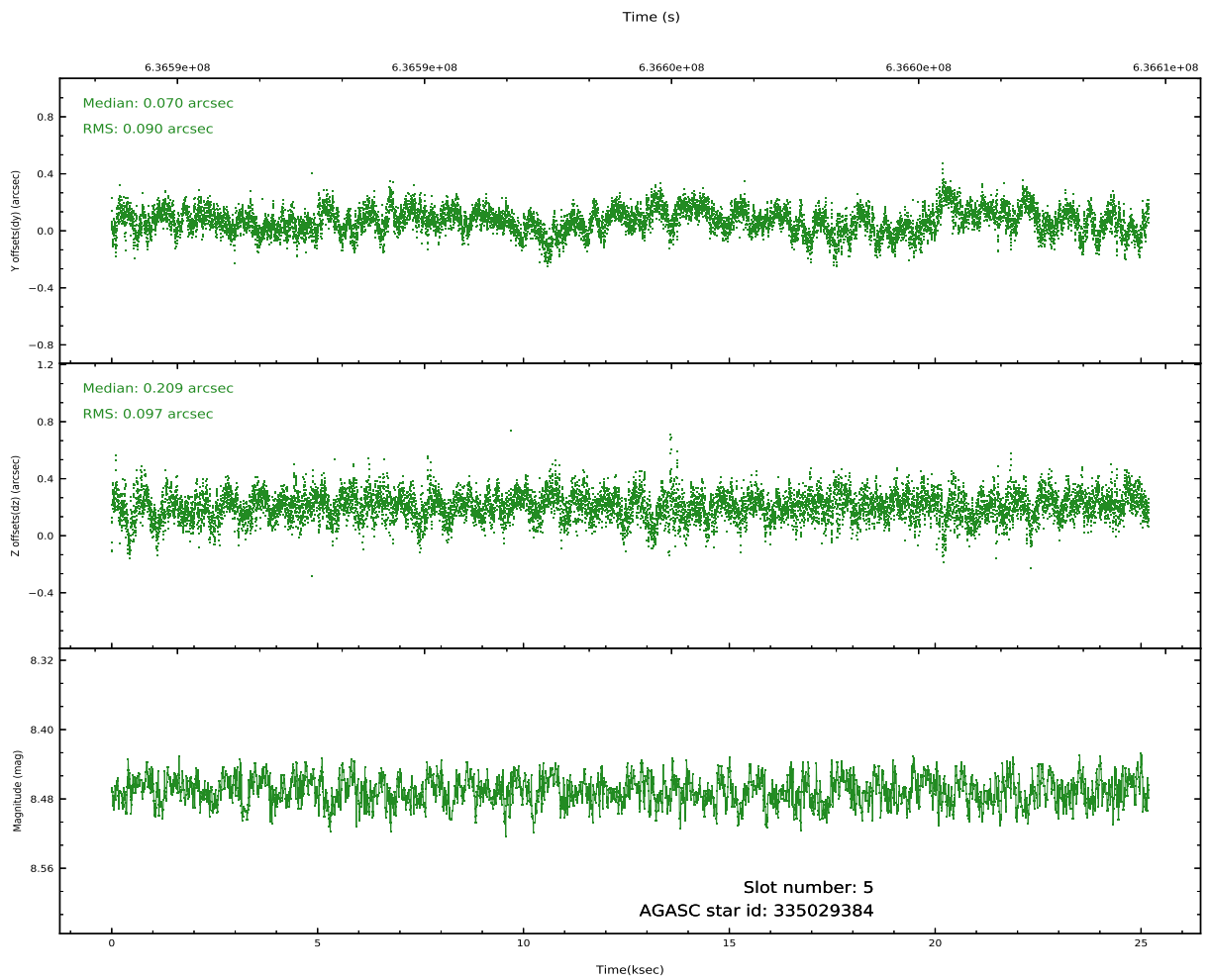
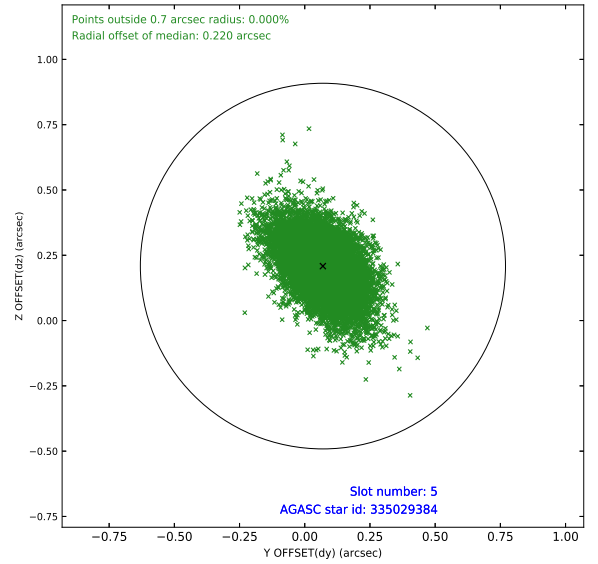
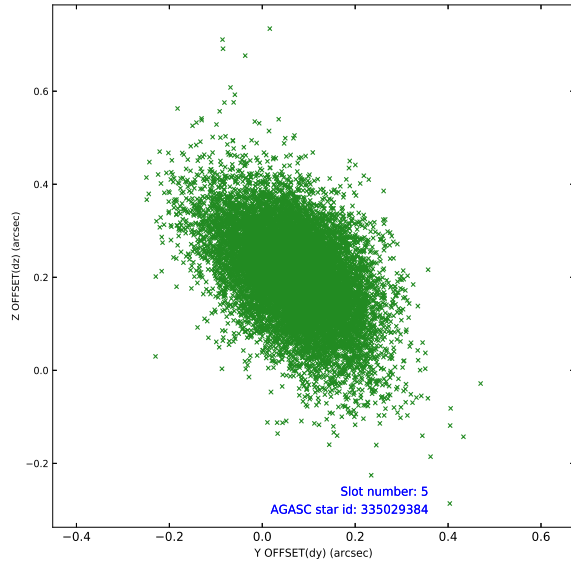
2.4.2 Slot 4



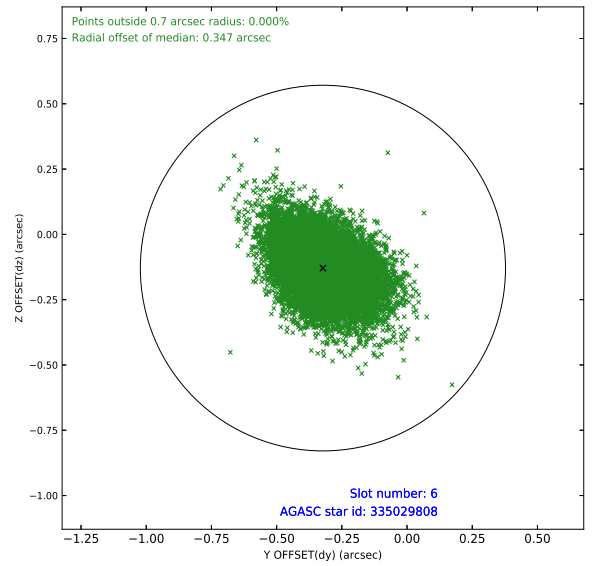
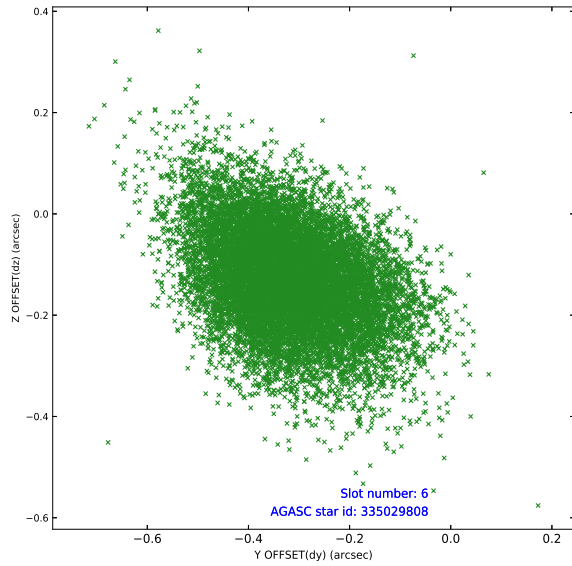
Time (s)



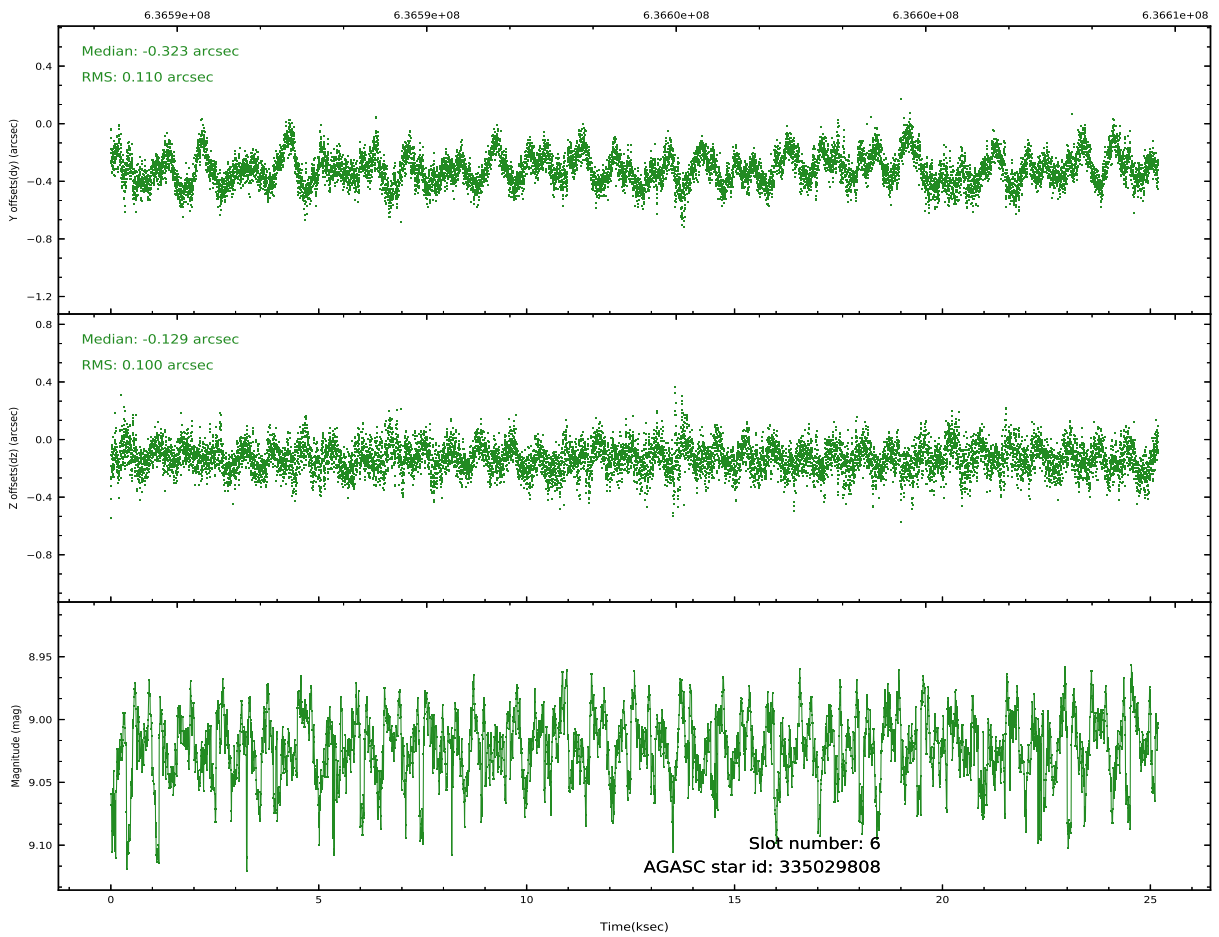
2.4.3 Slot 5



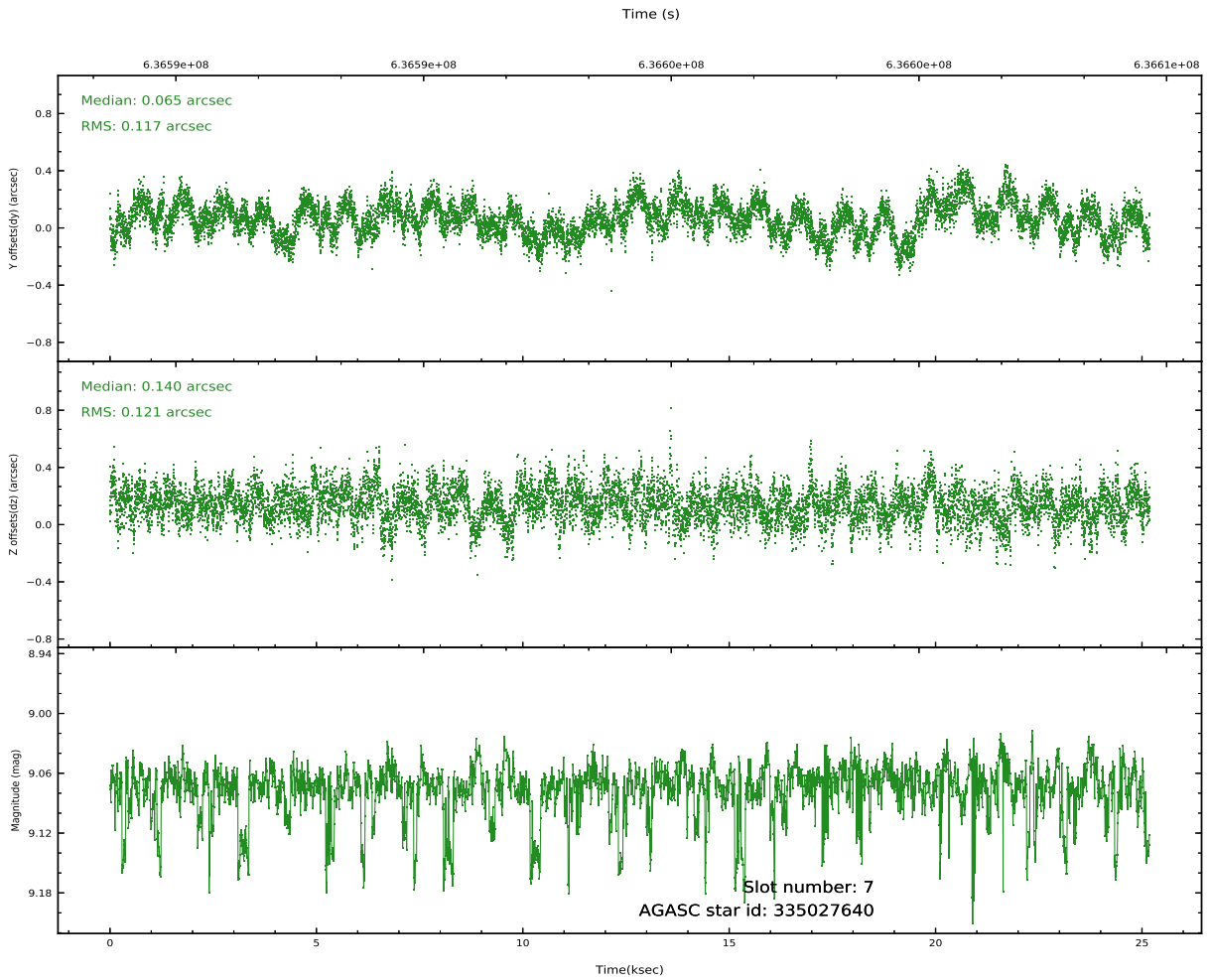
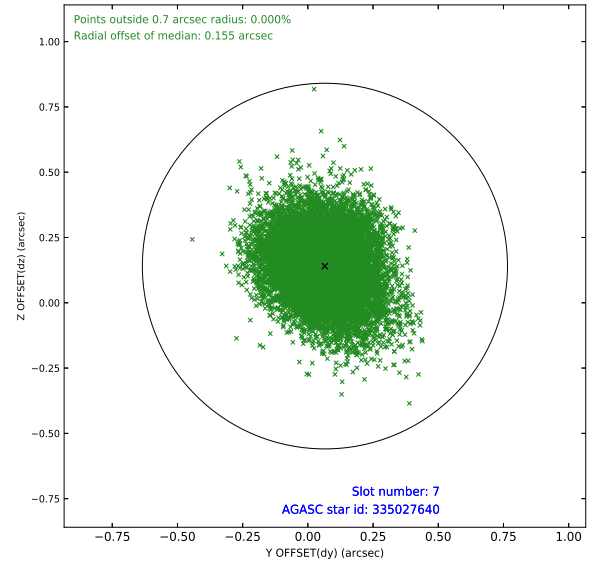
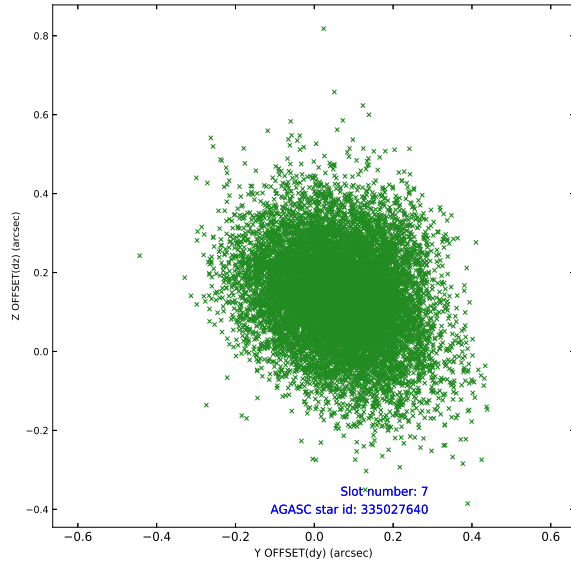
2.4.4 Slot 6



Time (s)

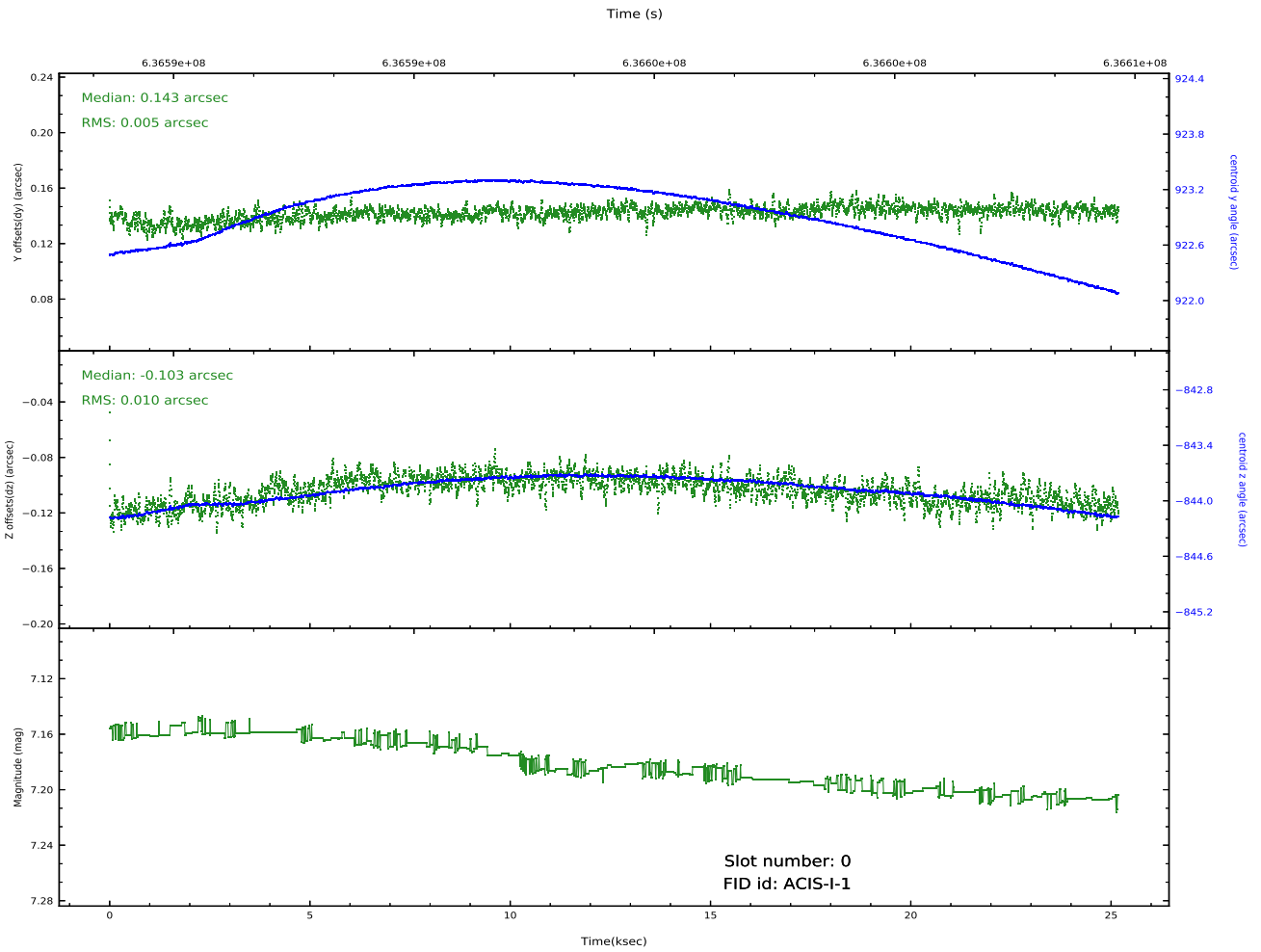
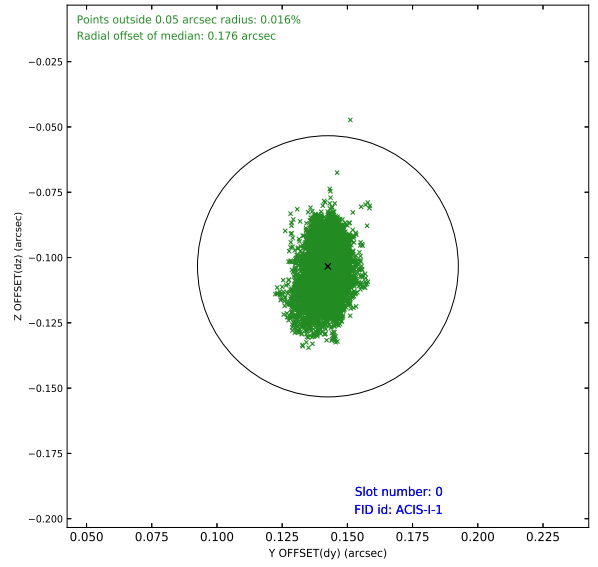
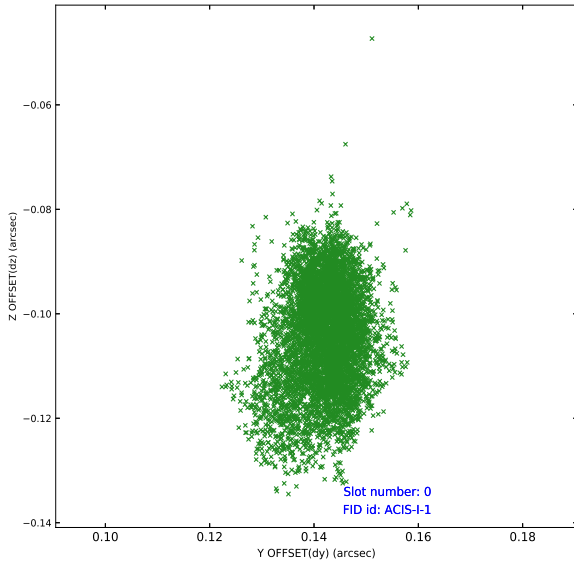


2.4.5 Slot 7

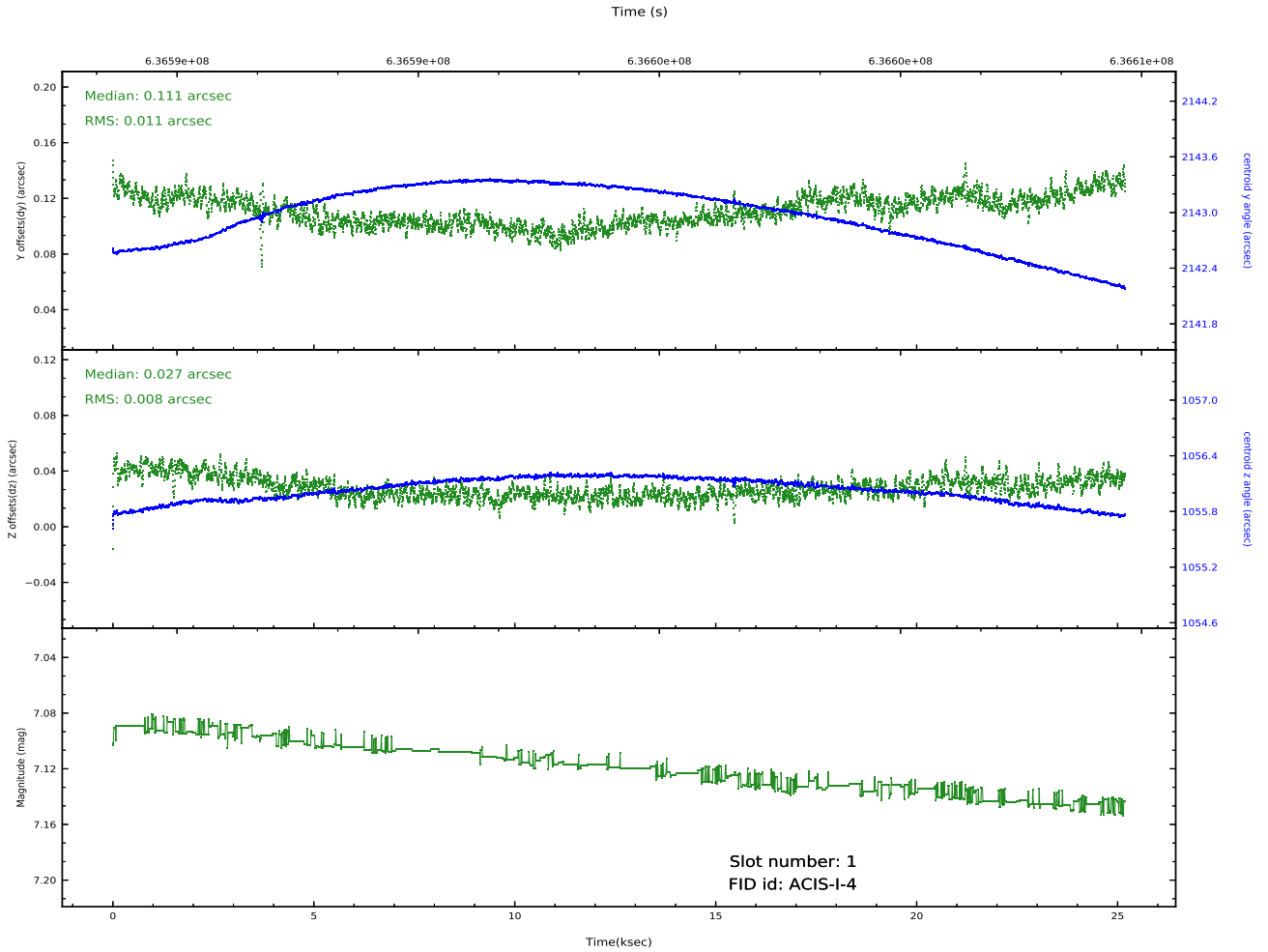
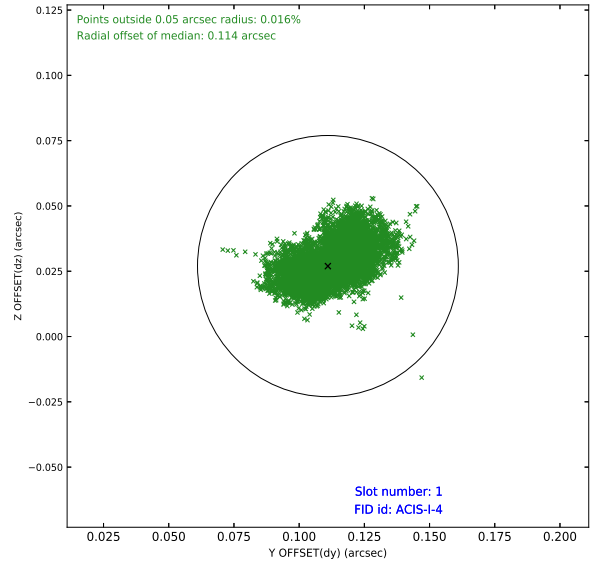
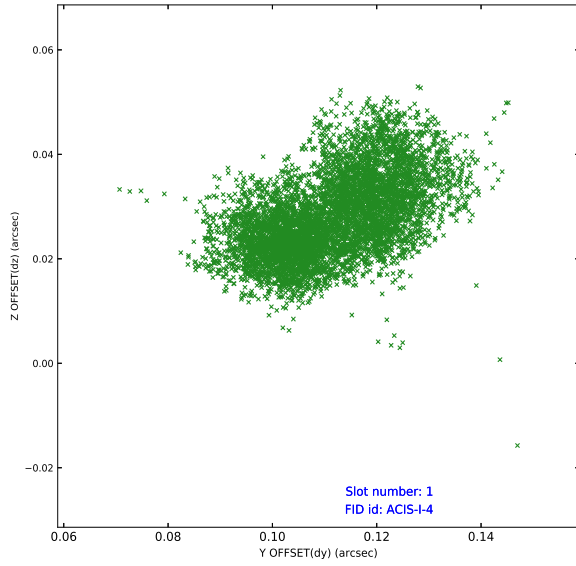


2.5 FID Slots

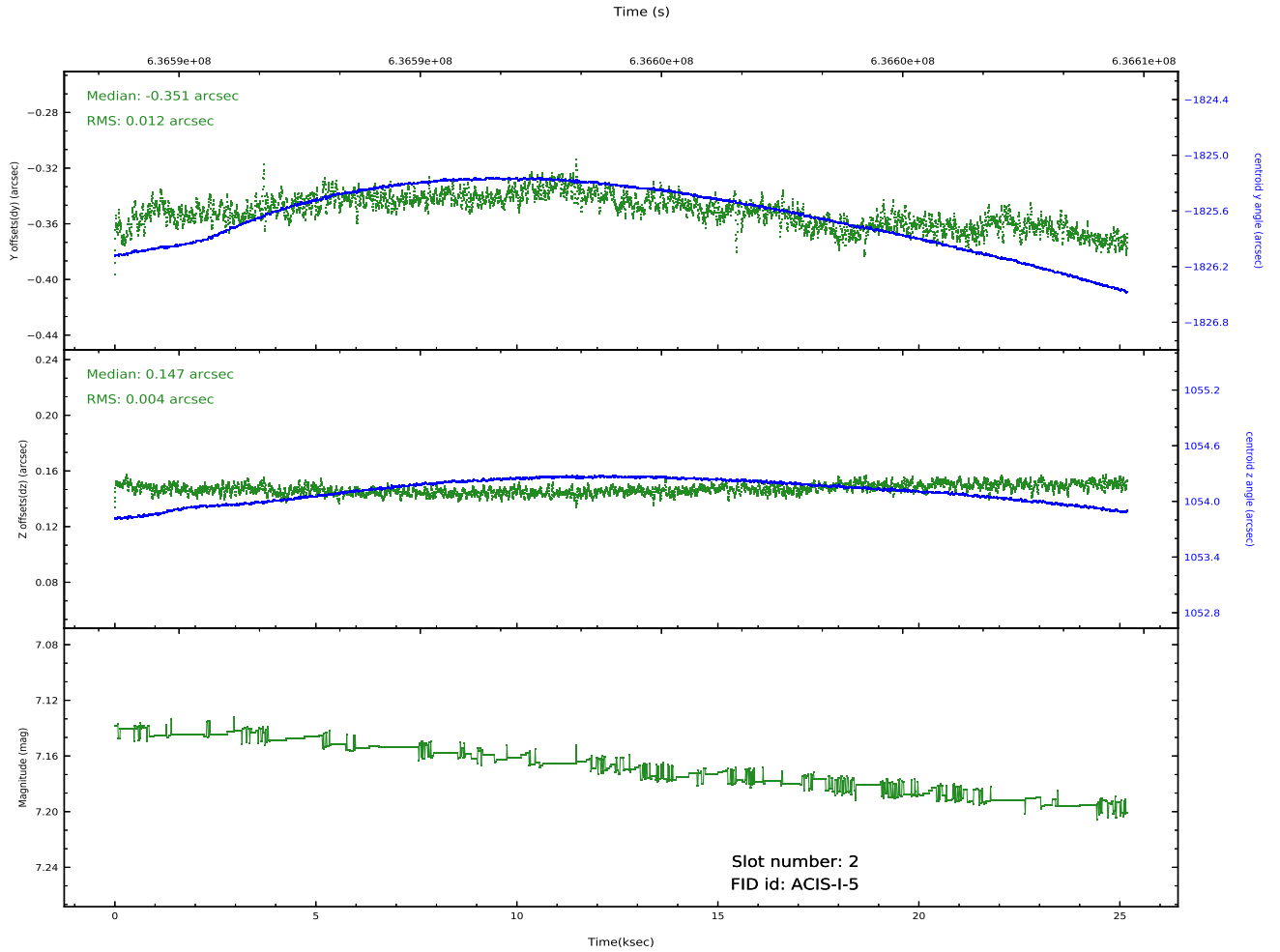
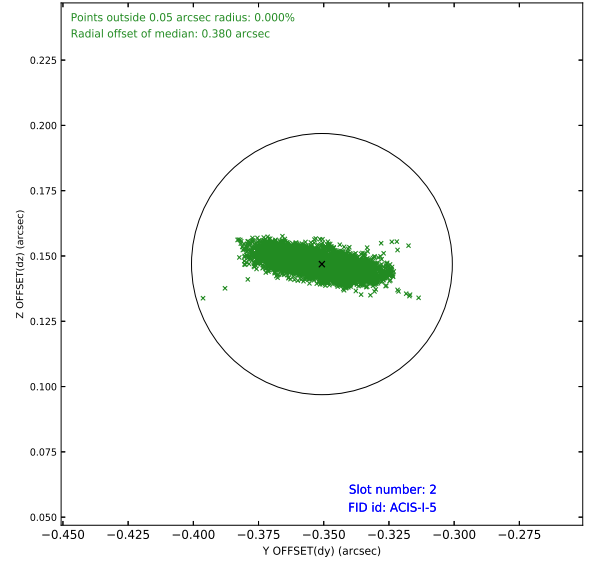
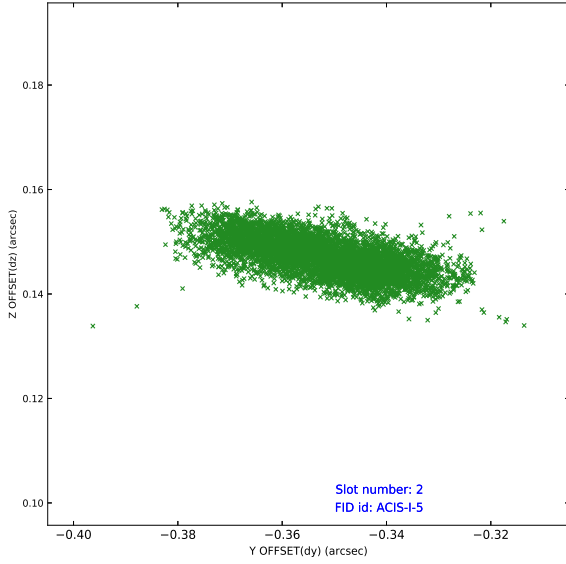
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.047918111801

A.2 Comments