

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20431 - L2 Version 2
Chandra X-Ray Center

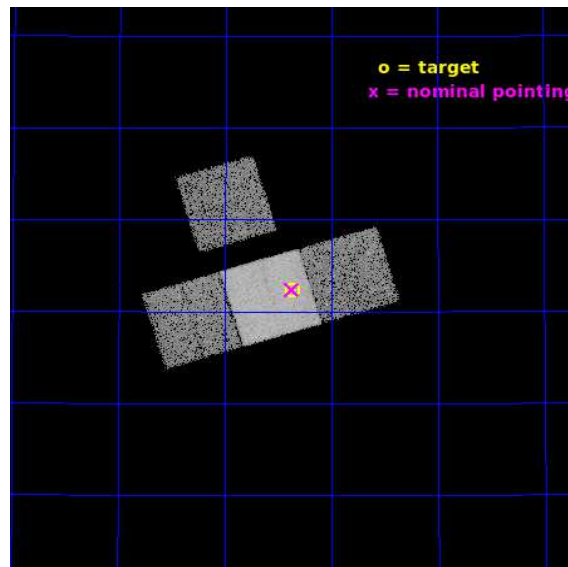
L2 Processing Date : Oct 29 2020

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1 Front

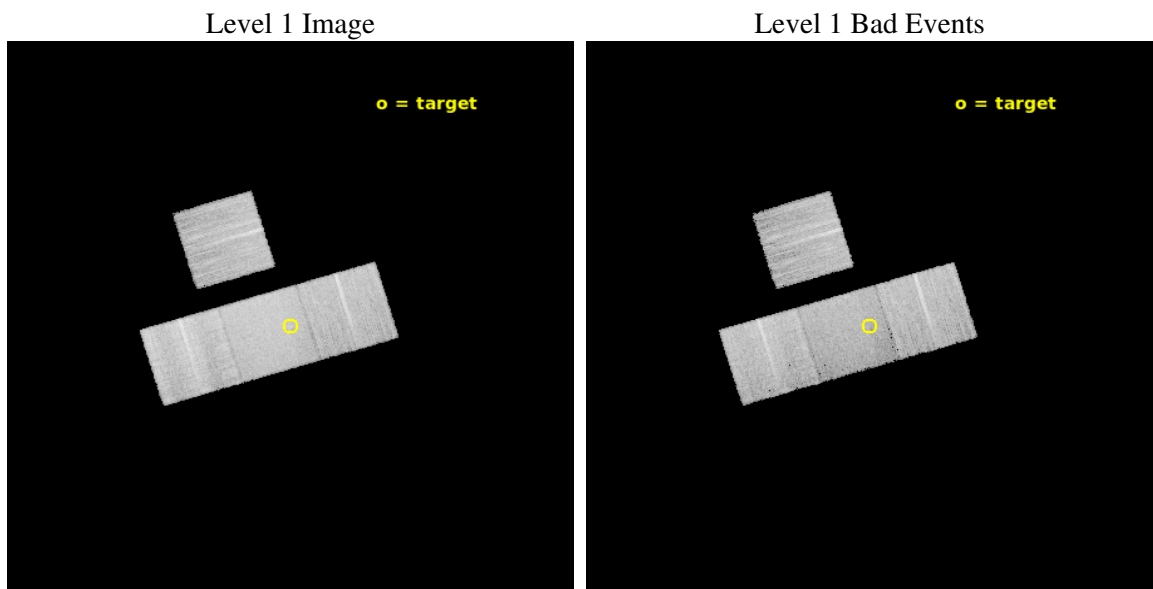
seq_num	703536	Sequence number
obs_id	20431	Observation id
title	X-Ray properties of Post-Merger Spheroidal Galaxies: The Missing Link in Understanding the Merger-AGN connection	Proposal title
observer	Preethi Nair	Principal investigator
object	SDSS J123821.72+421219.6	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	189.590417	Observer's specified target RA [deg]
dec_targ	42.2055	Observer's specified target Dec [deg]
ra_nom	189.59297761575	Nominal RA [deg]
dec_nom	42.206503651536	Nominal Dec [deg]
roll_nom	163.13759444242	Nominal Roll [deg]
revision	2	Processing version of data
ontime	12064.748486996	Sum of GTIs [s]
livetime	11907.113666074	Livetime [s]
ontime3	12061.525326729	Sum of GTIs [s]
ontime6	12058.425276279	Sum of GTIs [s]
ontime7	12064.748486996	Sum of GTIs [s]
ontime8	12064.625367045	Sum of GTIs [s]
l2events	75434	Number of level 2 events



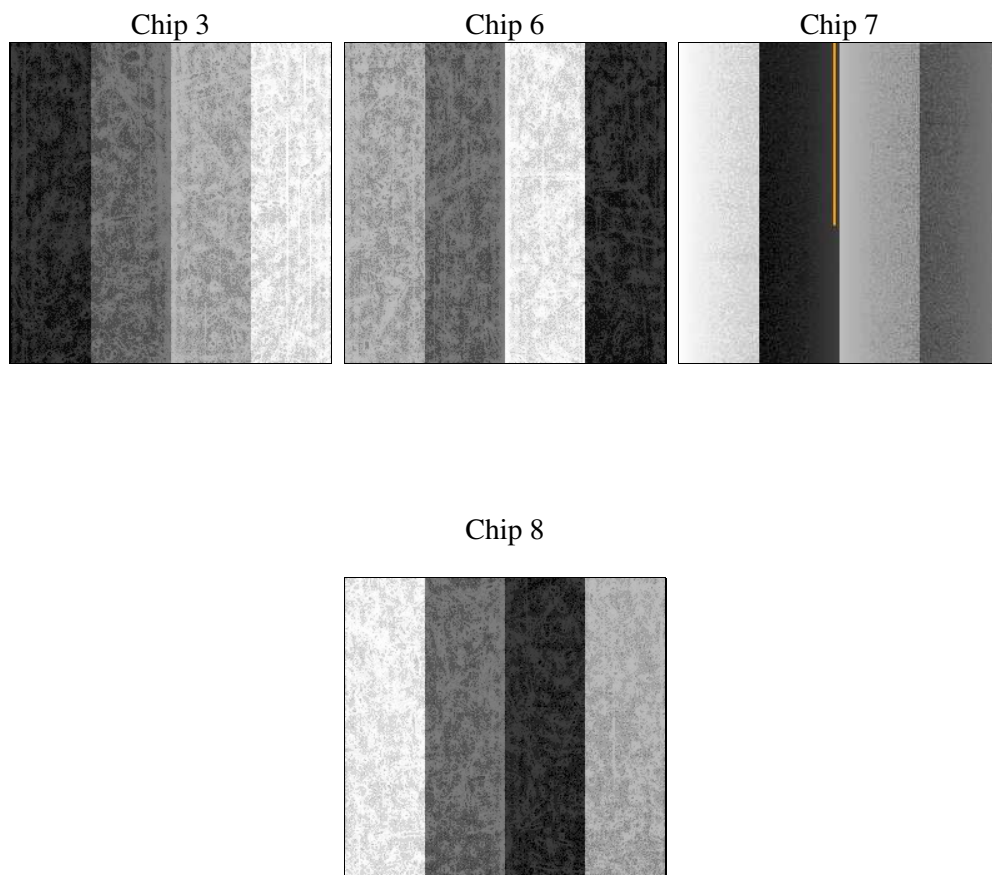
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.431000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	12064.748486996	Sum of GTIs [s]
caldsver	4.9.3	 	ontime3	12061.525326729	Sum of GTIs [s]
date	2020-10-30T00:10:37	Date and time of file creation	ontime6	12058.425276279	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	12064.748486996	Sum of GTIs [s]
			ontime8	12064.625367045	Sum of GTIs [s]
			l1events	426535	Number of level 1 events

2.1.4 Events

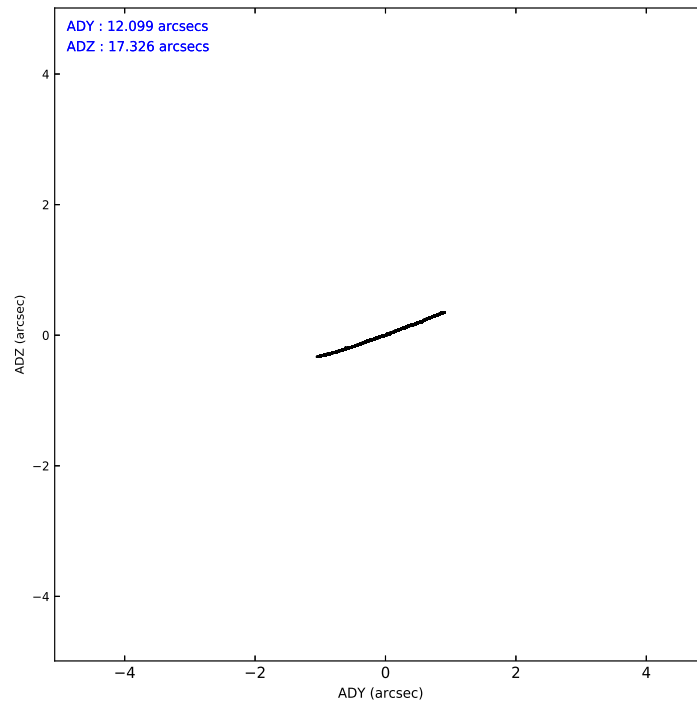
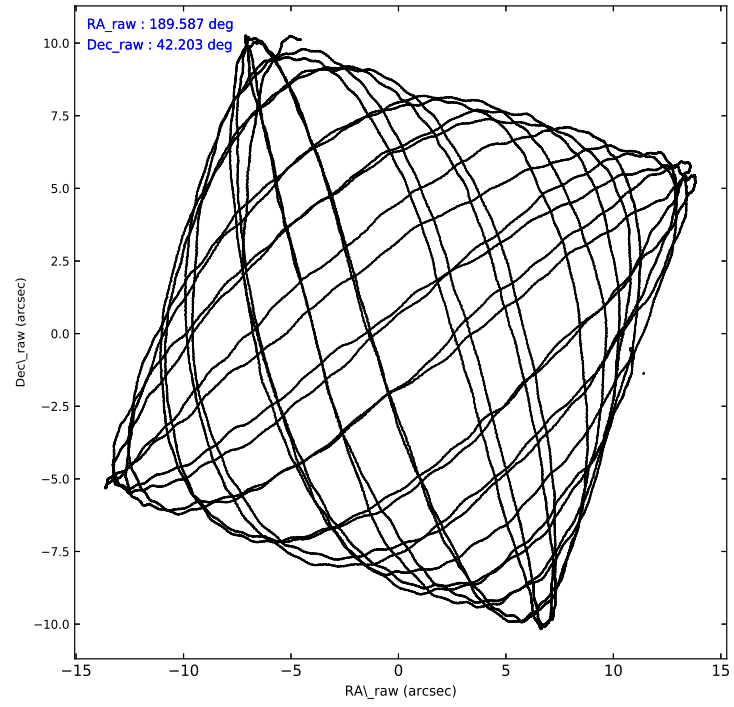
	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	90747	99126	117016	119646
rejected events	81748	88696	67030	90179
rejected %	90%	89%	57%	75%

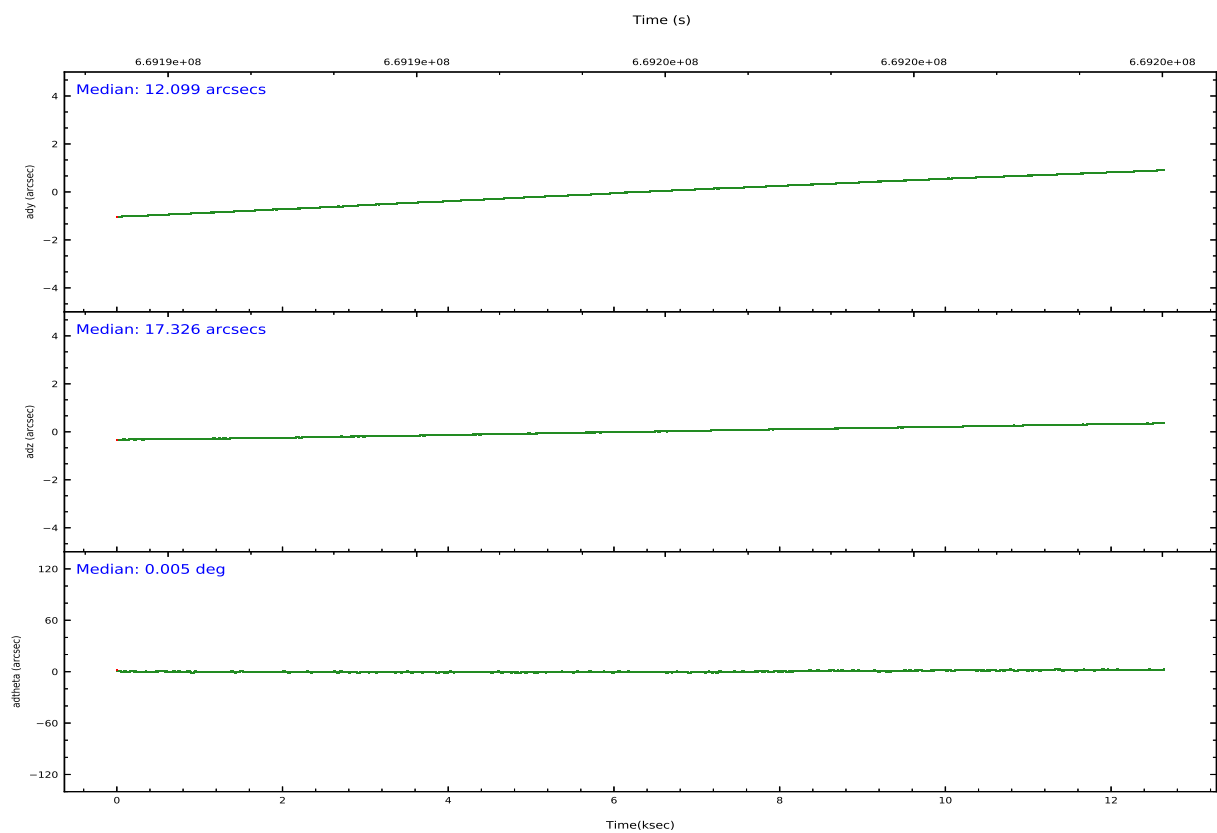
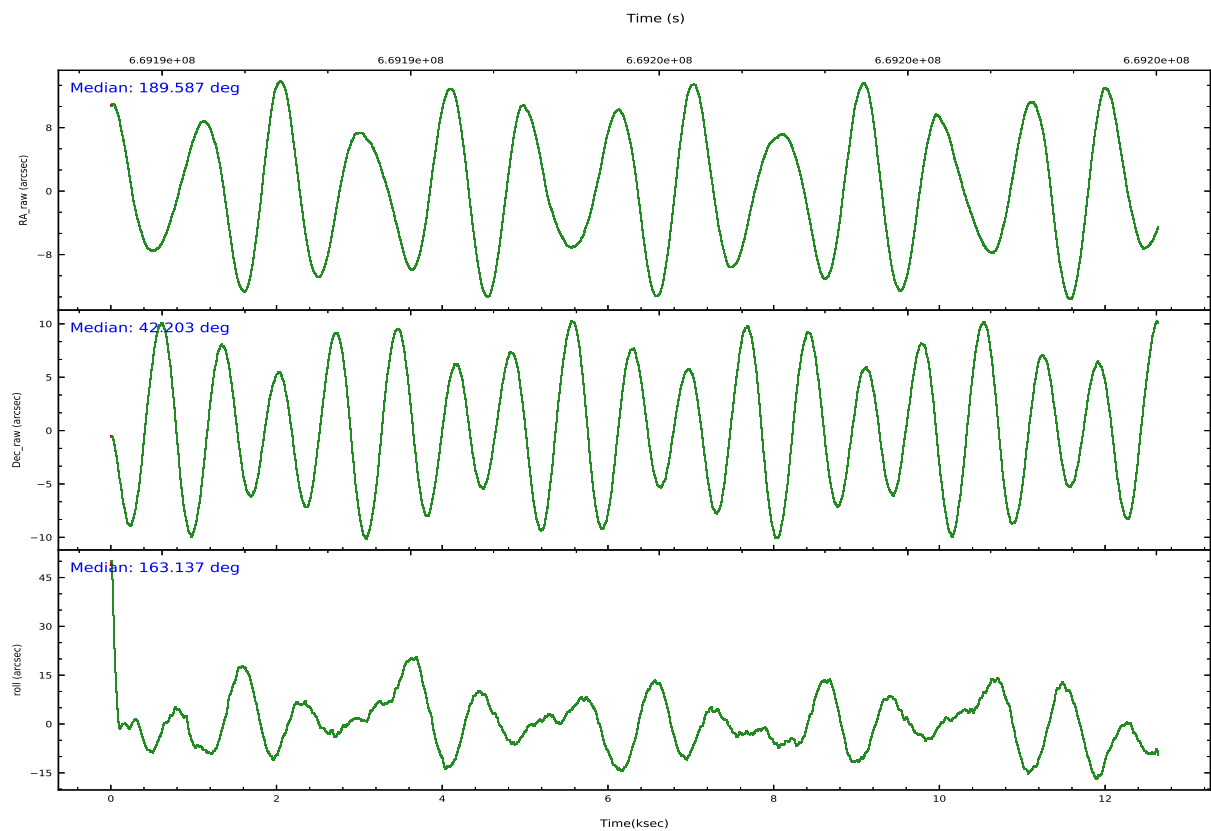
	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	3057	2956	4092	7928
	3%	2%	3%	6%
grade 1 events	48	29	172	67
	0%	0%	0%	0%
grade 2 events	2023	2810	10530	7404
	2%	2%	8%	6%
grade 3 events	957	889	3988	2822
	1%	0%	3%	2%
grade 4 events	986	878	3766	2743
	1%	0%	3%	2%
grade 5 events	3975	3862	10984	6037
	4%	3%	9%	5%
grade 6 events	1977	2899	27620	8582
	2%	2%	23%	7%
grade 7 events	77724	84803	55864	84063
	85%	85%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-3678	ACIS-3678	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	189.622429	189.59297761575	Subarray requested	NONE	NONE
[deg] Pointing Dec	42.209241	42.206503651536	Alternating exposures requested	N	N
[deg] Pointing Roll	162.978490	163.13759444242	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	669190021.184000	669188917.30056			
Observation start date	2019-03-17T06:05:52	2019-03-17T05:48:37			
[s] Observation end time (MET)	669202021.184000	669202542.11388			
Observation end date	2019-03-17T09:25:52	2019-03-17T09:35:42			
Read mode	TIMED	TIMED			

2.3 Aspect



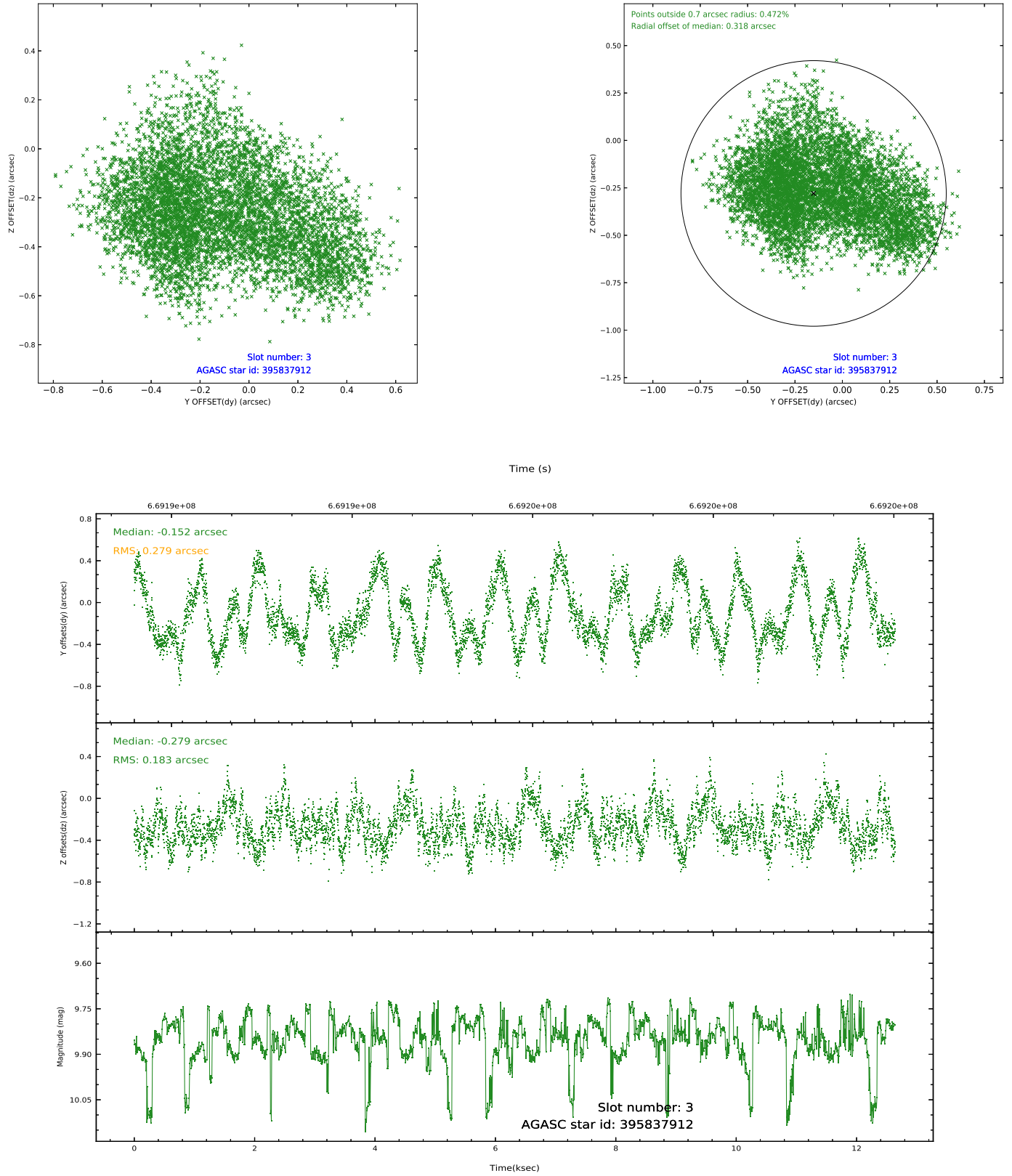


Slot Statistics

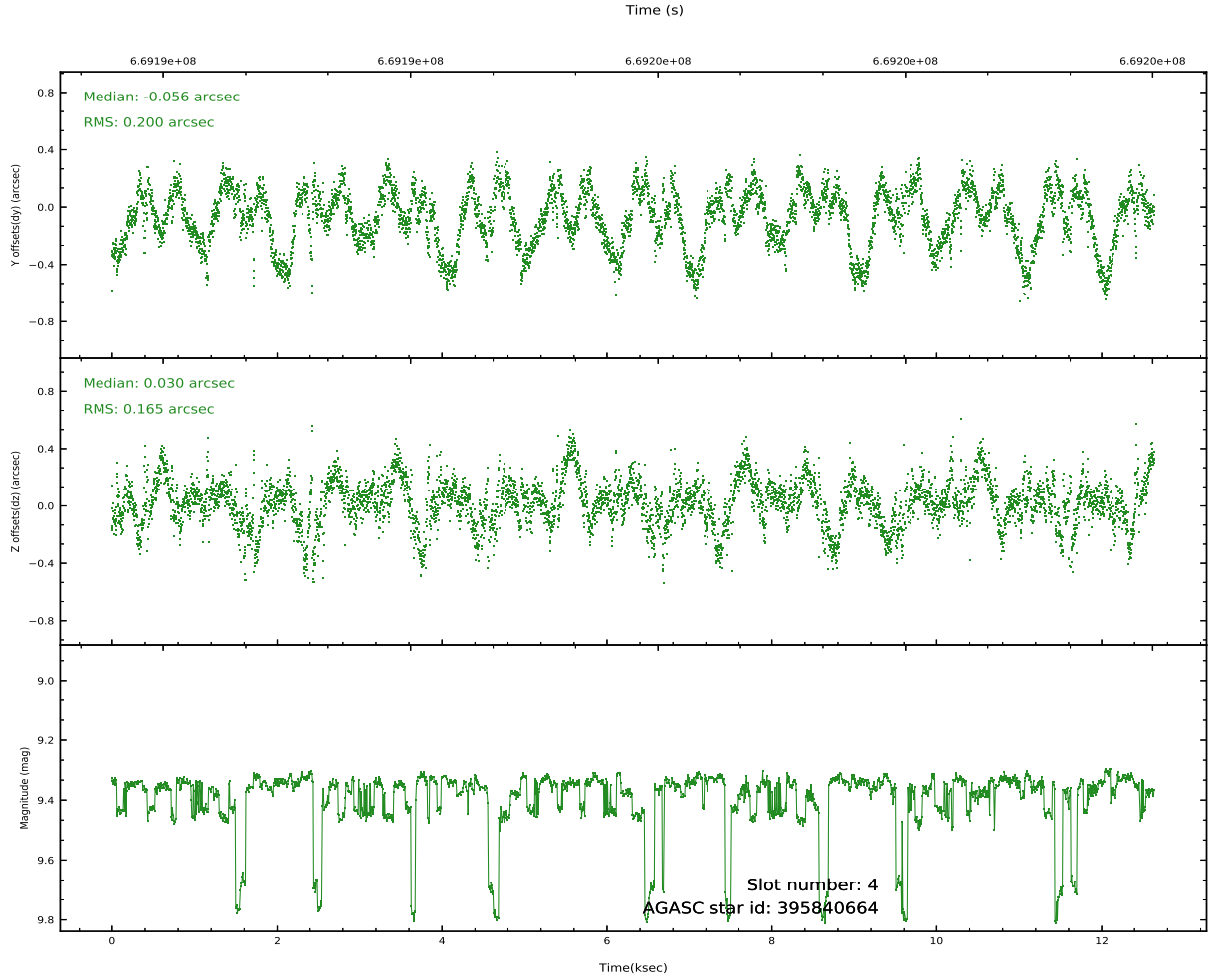
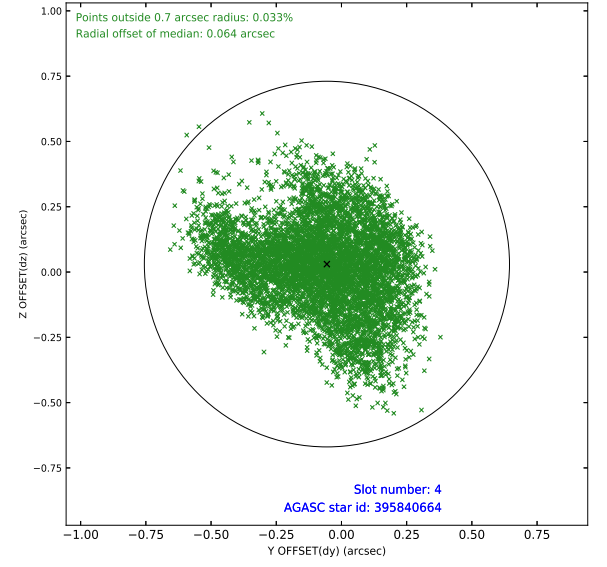
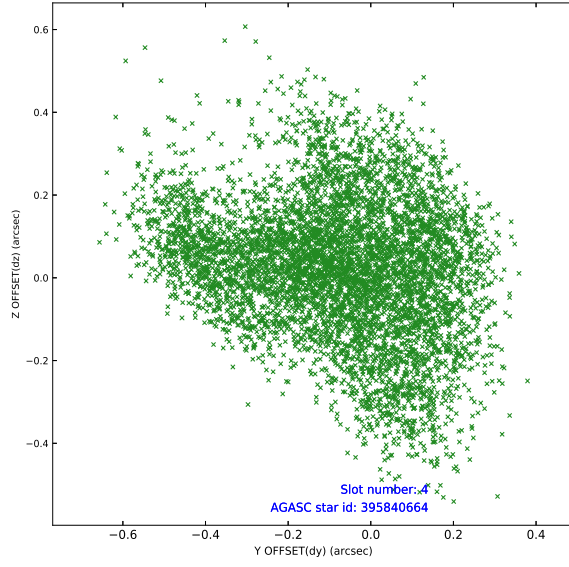
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.11	3084	1.000	0.214	-0.125	0.031	0.042	0.000000	0.000000	-765.02	-1738
1	FID		ACIS-S-4	7.25	3084	1.000	0.123	-0.069	0.014	0.022	0.000000	0.000000	2148.28	168
2	FID		ACIS-S-5	7.23	3084	1.000	-0.375	0.206	0.045	0.059	0.000000	0.000000	-1817.66	163
3	GUIDE	used	395837912	9.84	6138	1.000	-0.152	-0.279	0.357	0.571	189.538263	42.203632	207.38	85
4	GUIDE	used	395840664	9.36	6063	1.000	-0.056	0.030	0.281	0.439	189.928971	41.476509	-1564.92	2279
5	GUIDE	used	395842496	8.55	6163	1.000	0.263	0.013	0.154	0.240	189.998704	42.774013	-354.32	-2236
6	GUIDE	used	396231048	9.98	6054	1.000	-0.091	0.245	0.234	0.374	190.630897	42.514162	-2232.03	-1848
7	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0

2.4 Star Slots

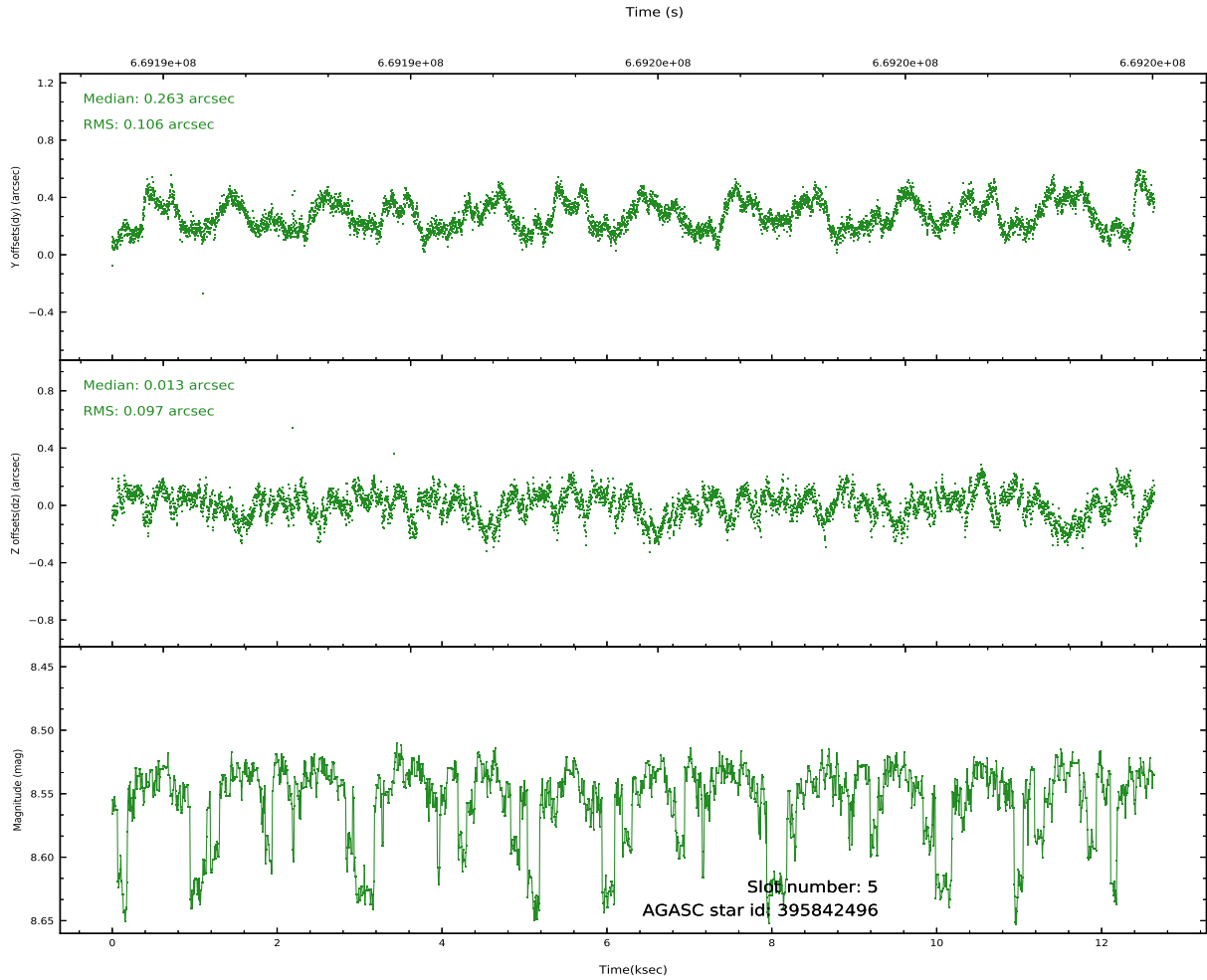
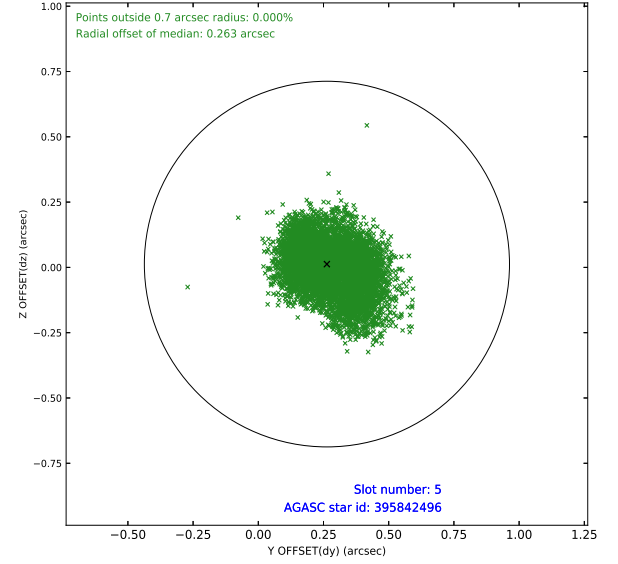
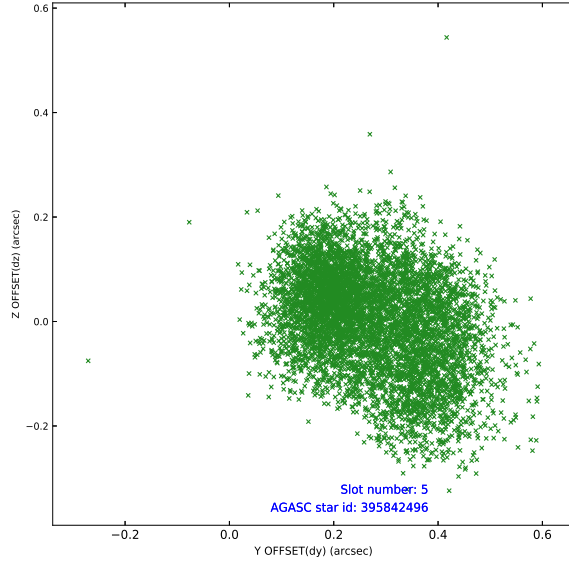
2.4.1 Slot 3



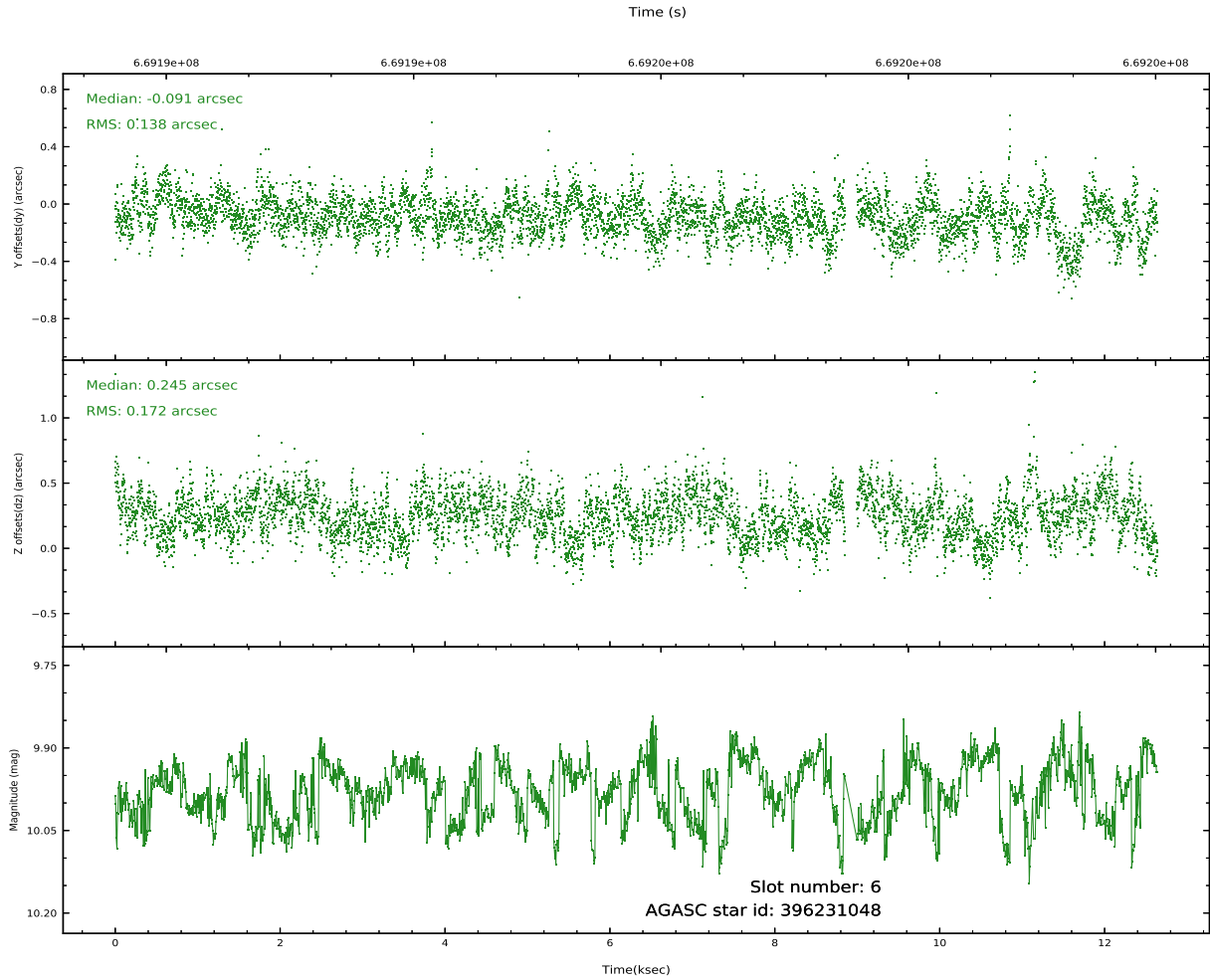
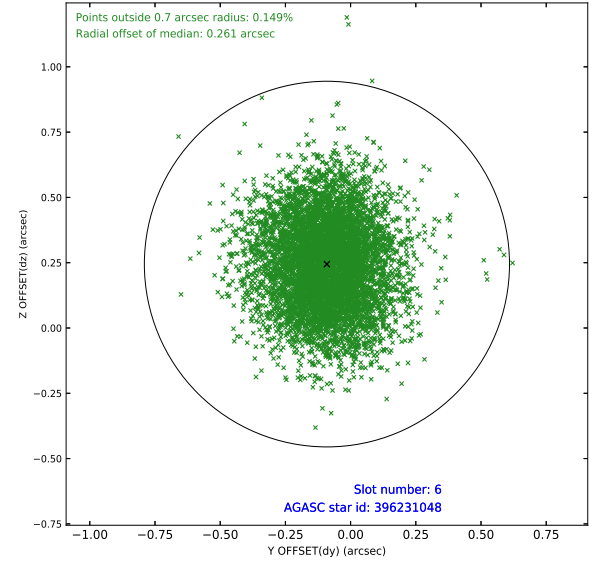
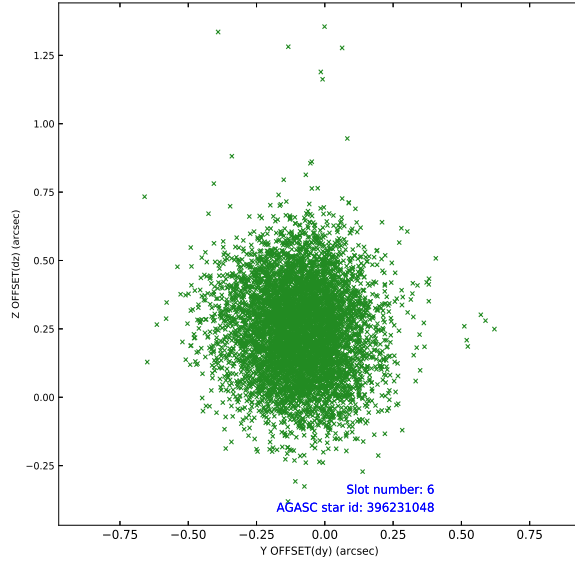
2.4.2 Slot 4



2.4.3 Slot 5

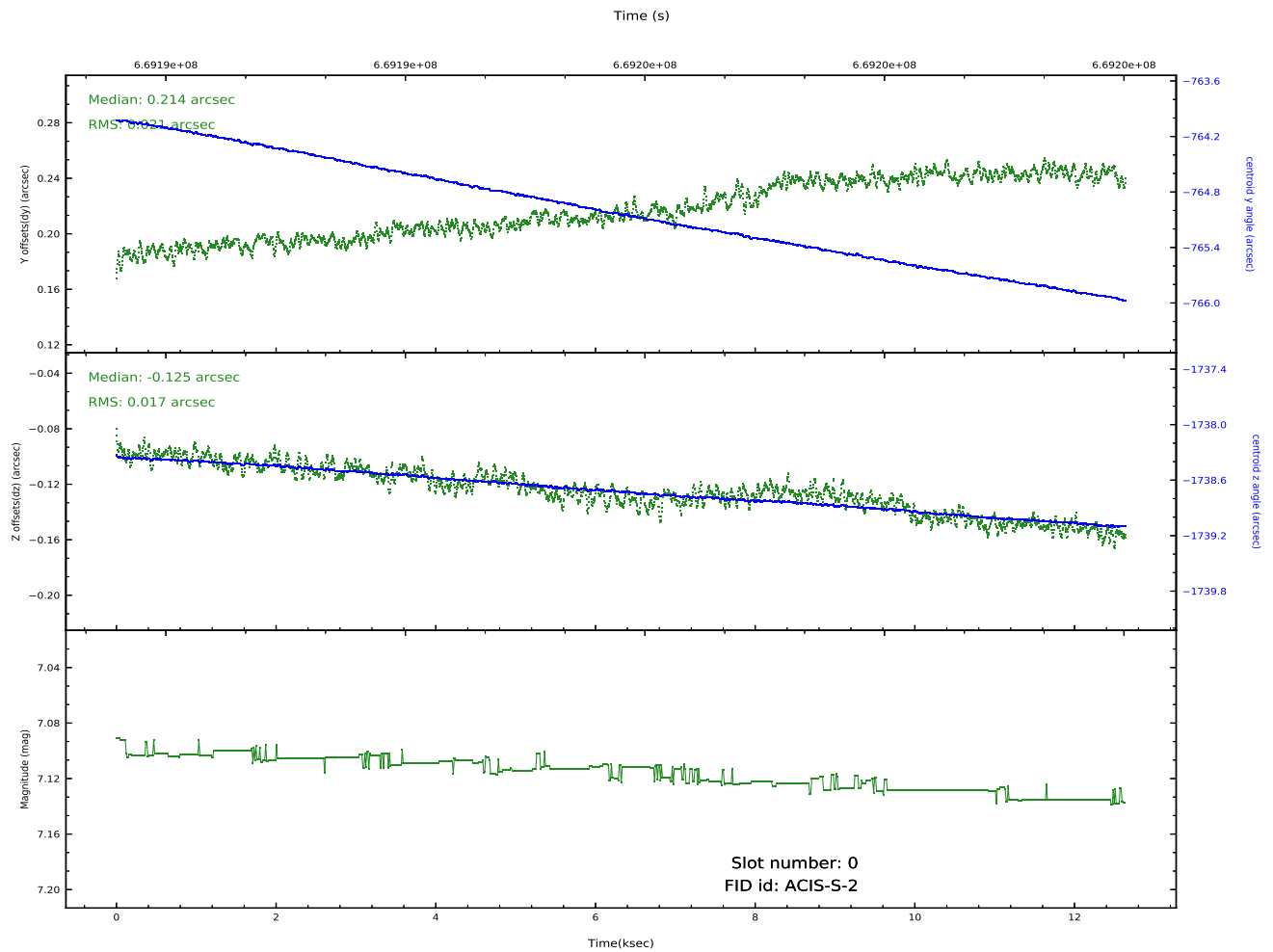
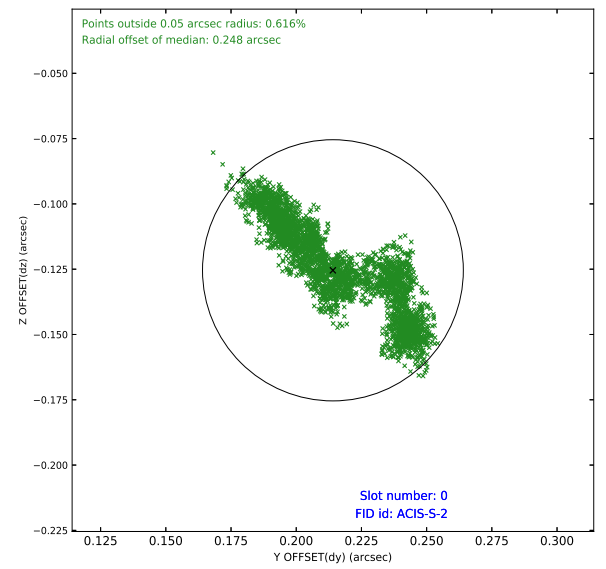
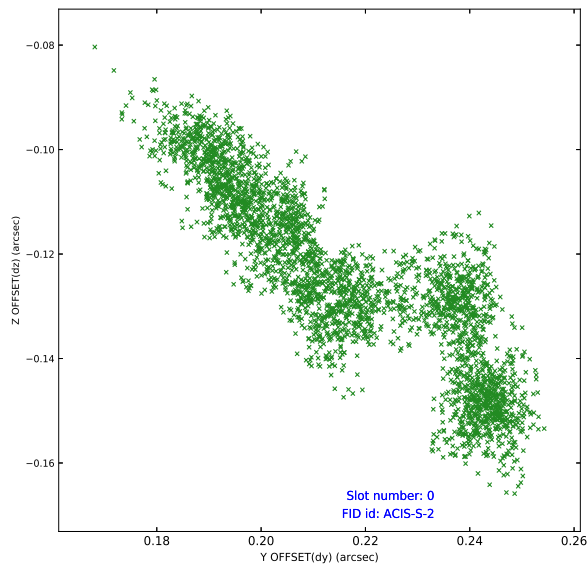


2.4.4 Slot 6

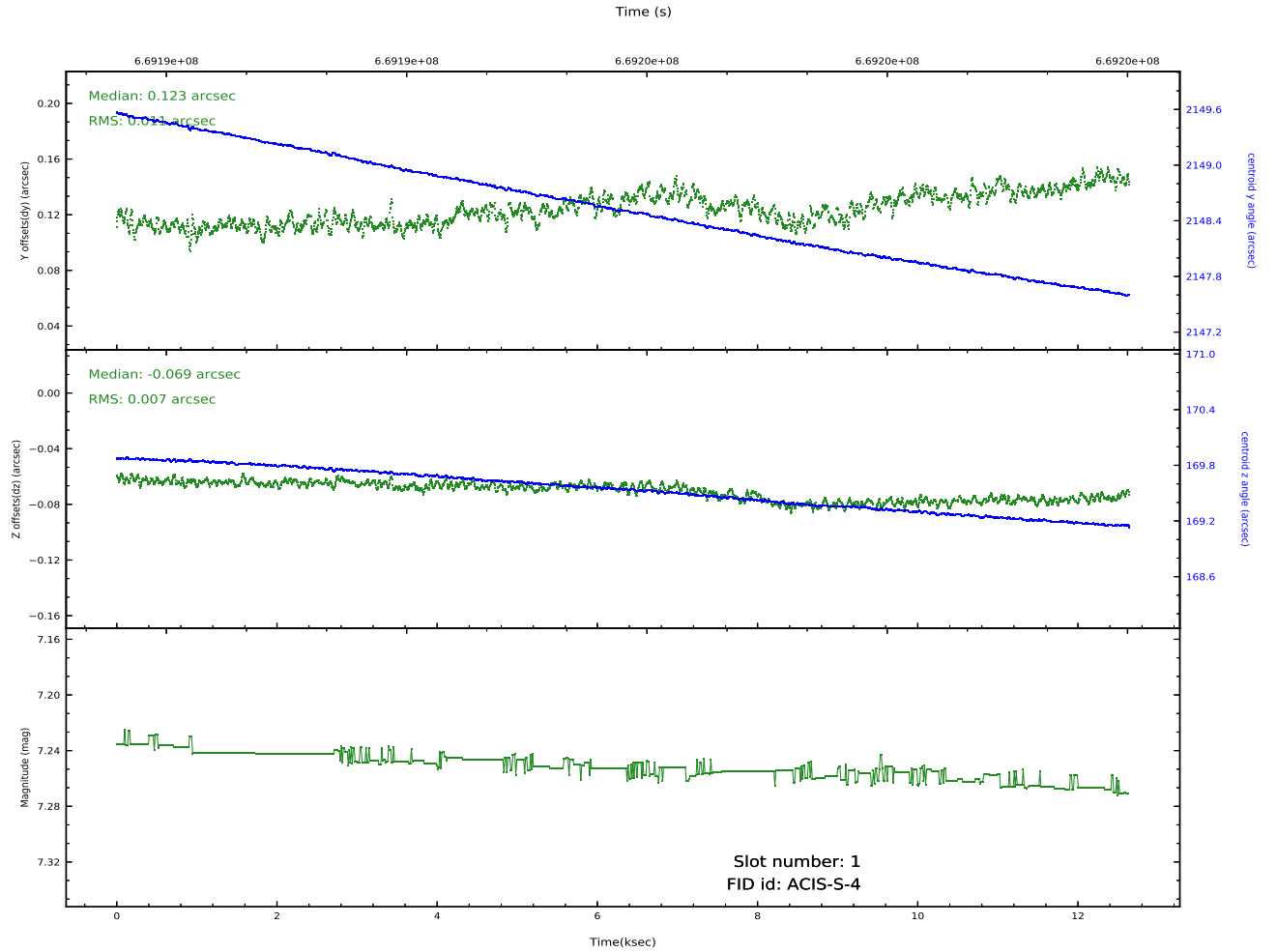
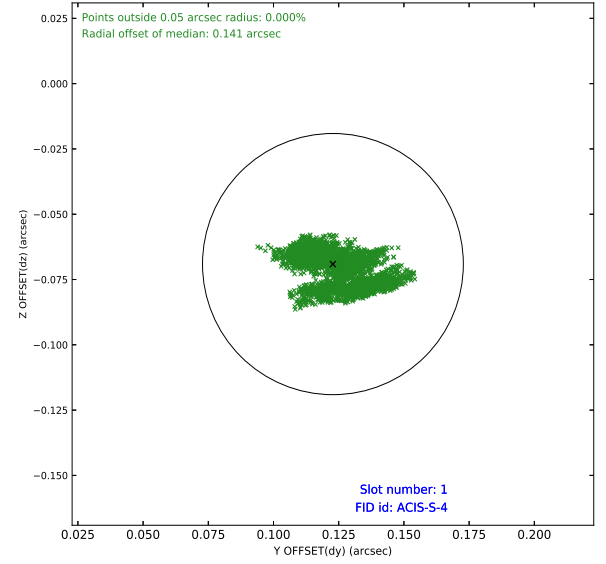
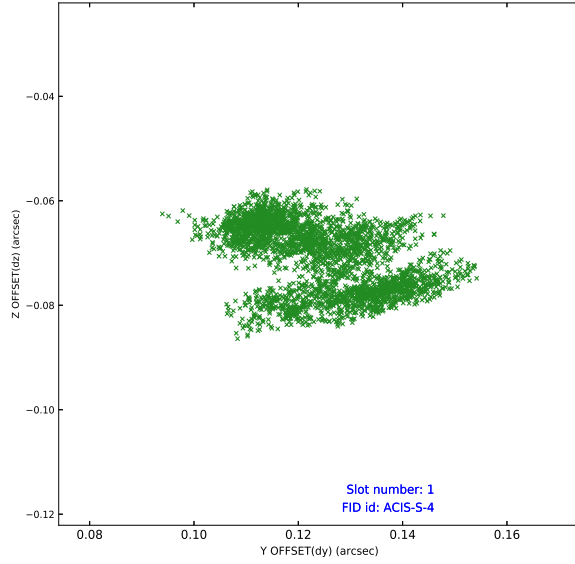


2.5 FID Slots

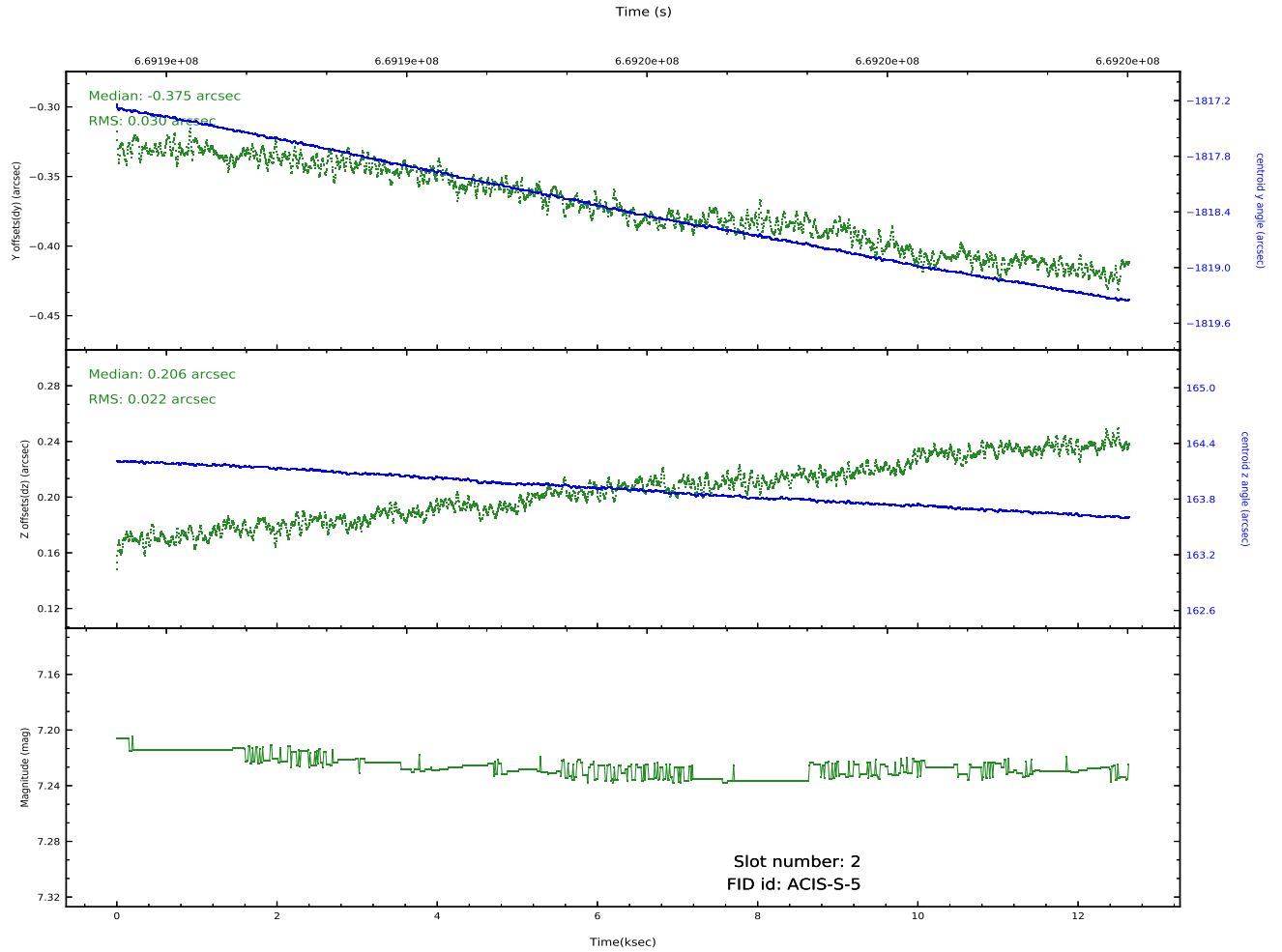
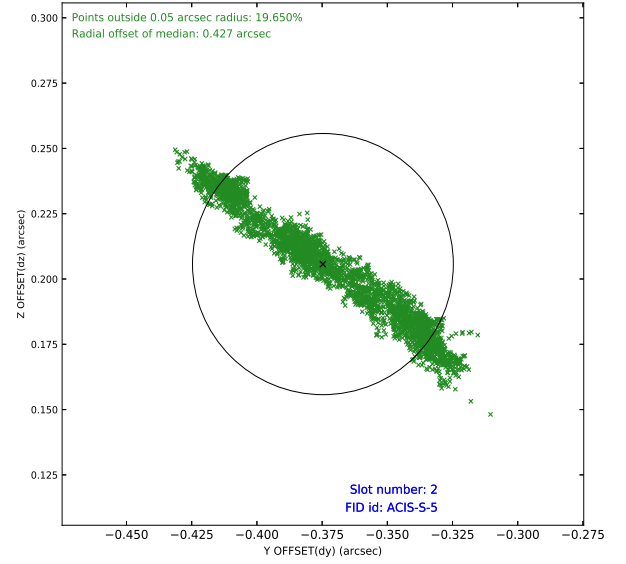
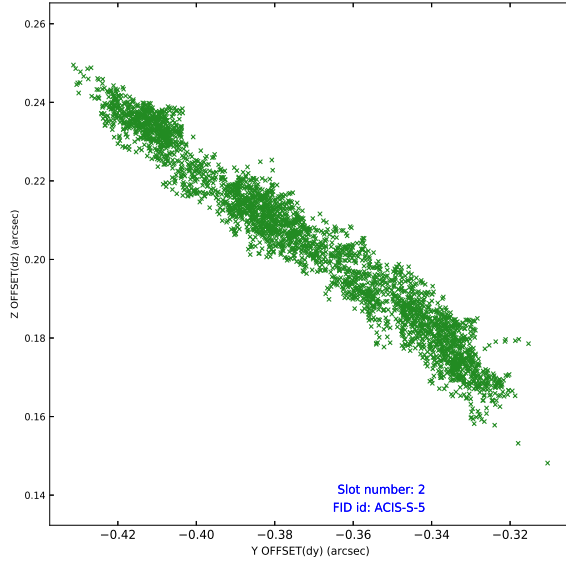
2.5.1 Slot 0



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)	2020.10.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	12.064748485923

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.