

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4887 - L2 Version 5
Chandra X-Ray Center

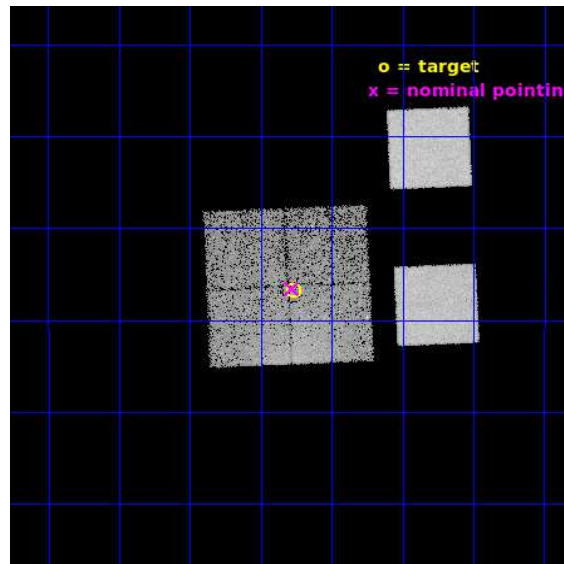
L2 Processing Date : Oct 1 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

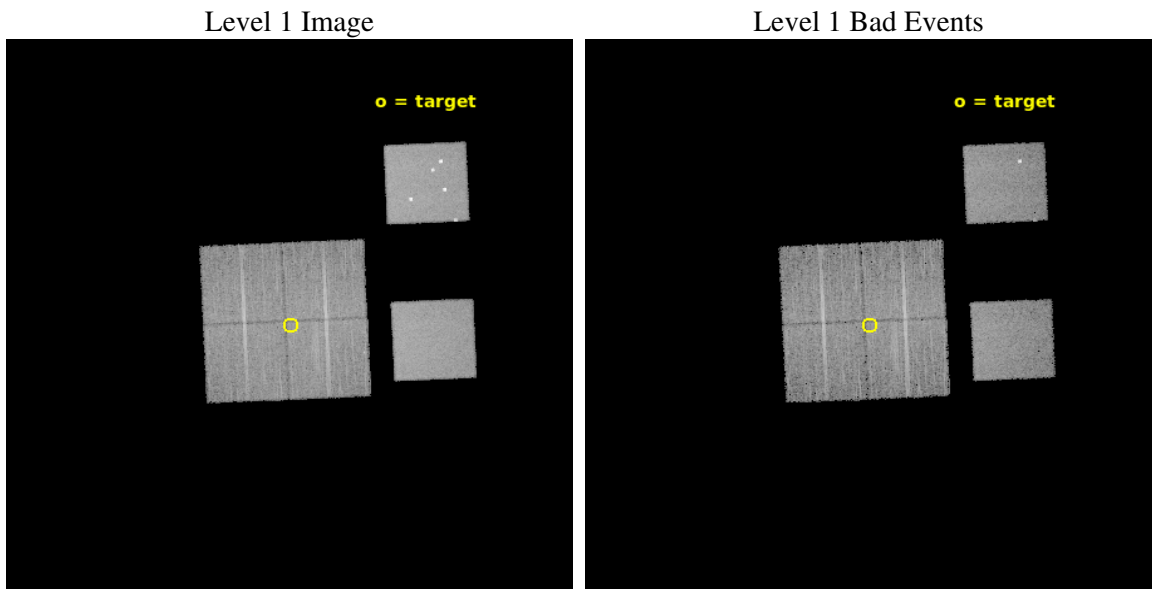
seq_num	700969	Sequence number
obs_id	4887	Observation id
title	AGN in low-redshift Clusters of Galaxies	Proposal title
observer	Dr. Paul Martini	Principal investigator
object	Abell 85	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	10.440833	Observer's specified target RA [deg]
dec_targ	-9.1125	Observer's specified target Dec [deg]
ra_nom	10.445210309747	Nominal RA [deg]
dec_nom	-9.1097893628845	Nominal Dec [deg]
roll_nom	87.435979065509	Nominal Roll [deg]
revision	5	Processing version of data
ontime	10179.19996208	Sum of GTIs [s]
livetime	10050.304802981	Livetime [s]
ontime0	10179.19996208	Sum of GTIs [s]
ontime1	10179.19996208	Sum of GTIs [s]
ontime2	10179.19996208	Sum of GTIs [s]
ontime3	10179.19996208	Sum of GTIs [s]
ontime5	10179.19996208	Sum of GTIs [s]
ontime7	10179.19996208	Sum of GTIs [s]
l2events	131274	Number of level 2 events



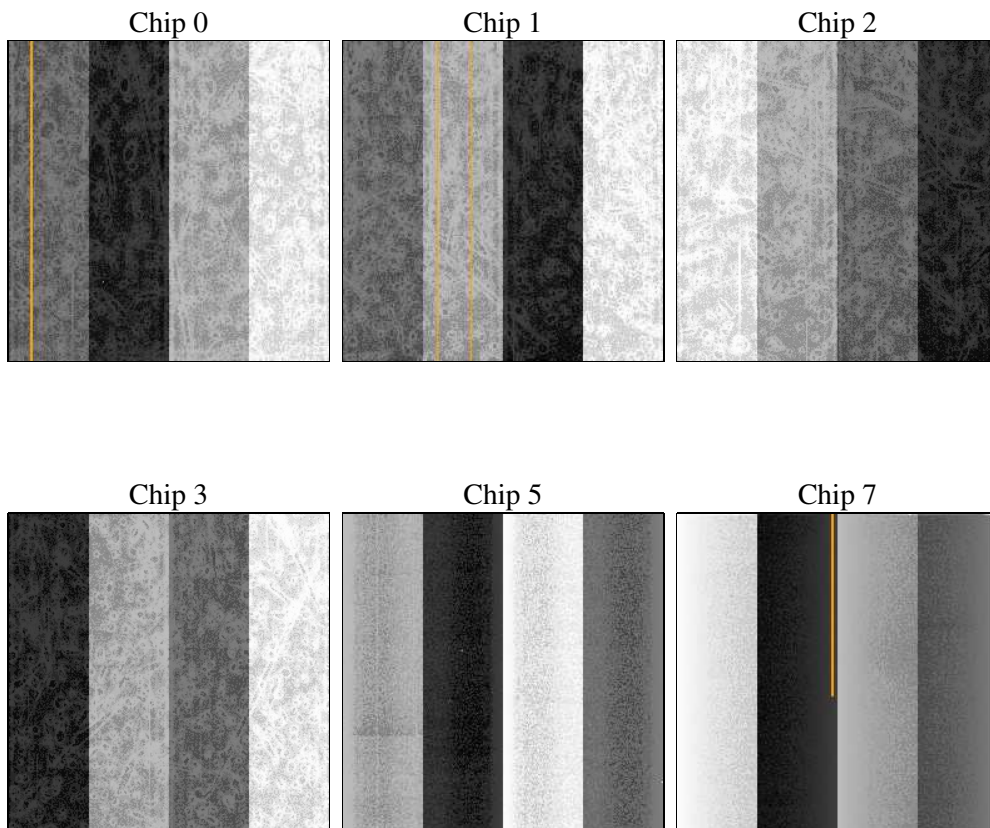
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	10000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	10179.19996208	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	10179.19996208	Sum of GTIs [s]
date	2020-10-01T21:41:18	Date and time of file creation	ontime1	10179.19996208	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	10179.19996208	Sum of GTIs [s]
			ontime3	10179.19996208	Sum of GTIs [s]
			ontime5	10179.19996208	Sum of GTIs [s]
			ontime7	10179.19996208	Sum of GTIs [s]
			l1events	600505	Number of level 1 events

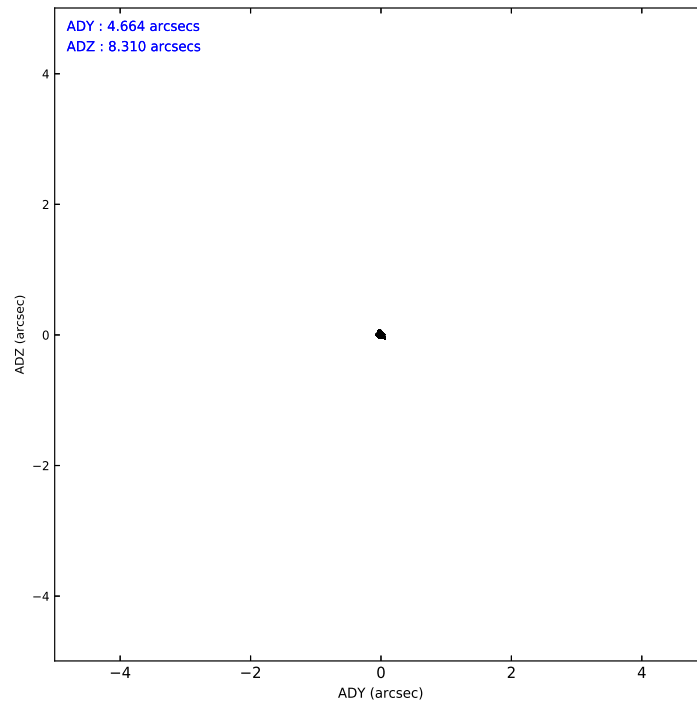
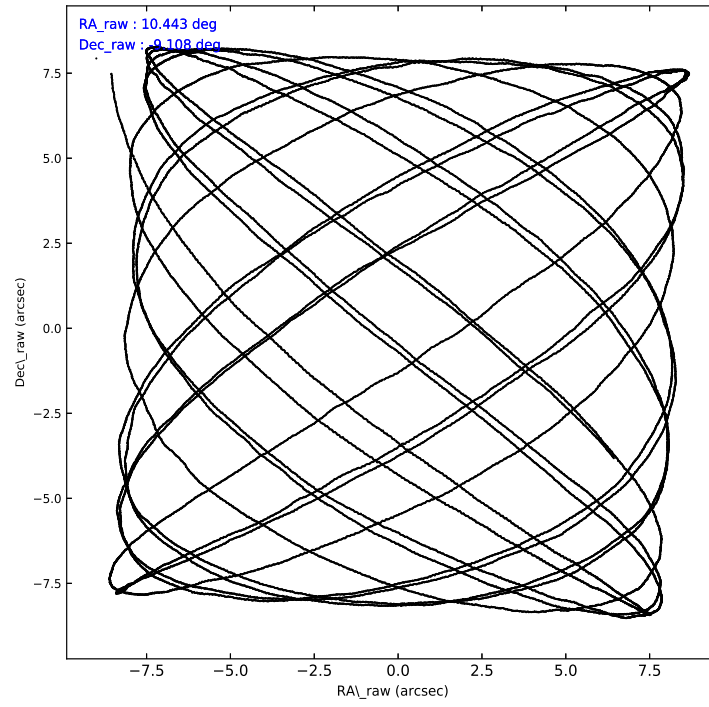
2.1.4 Events

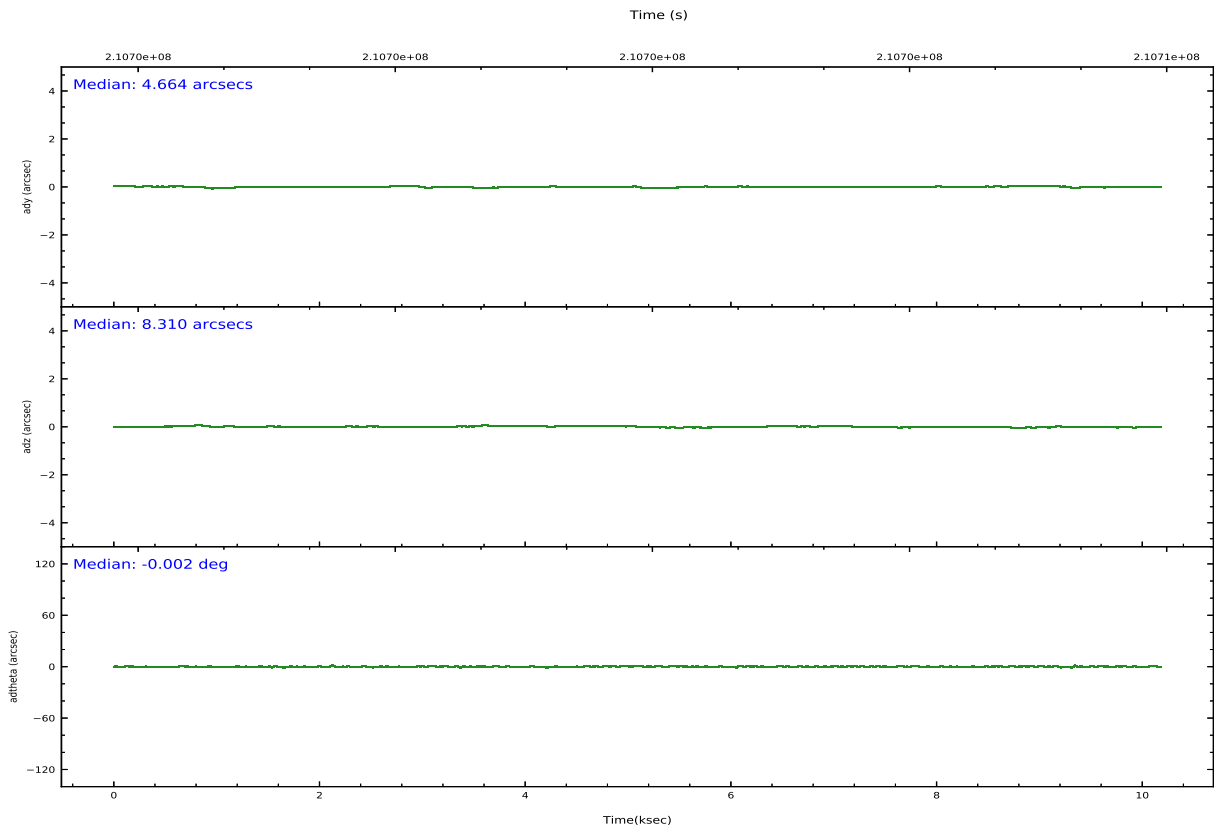
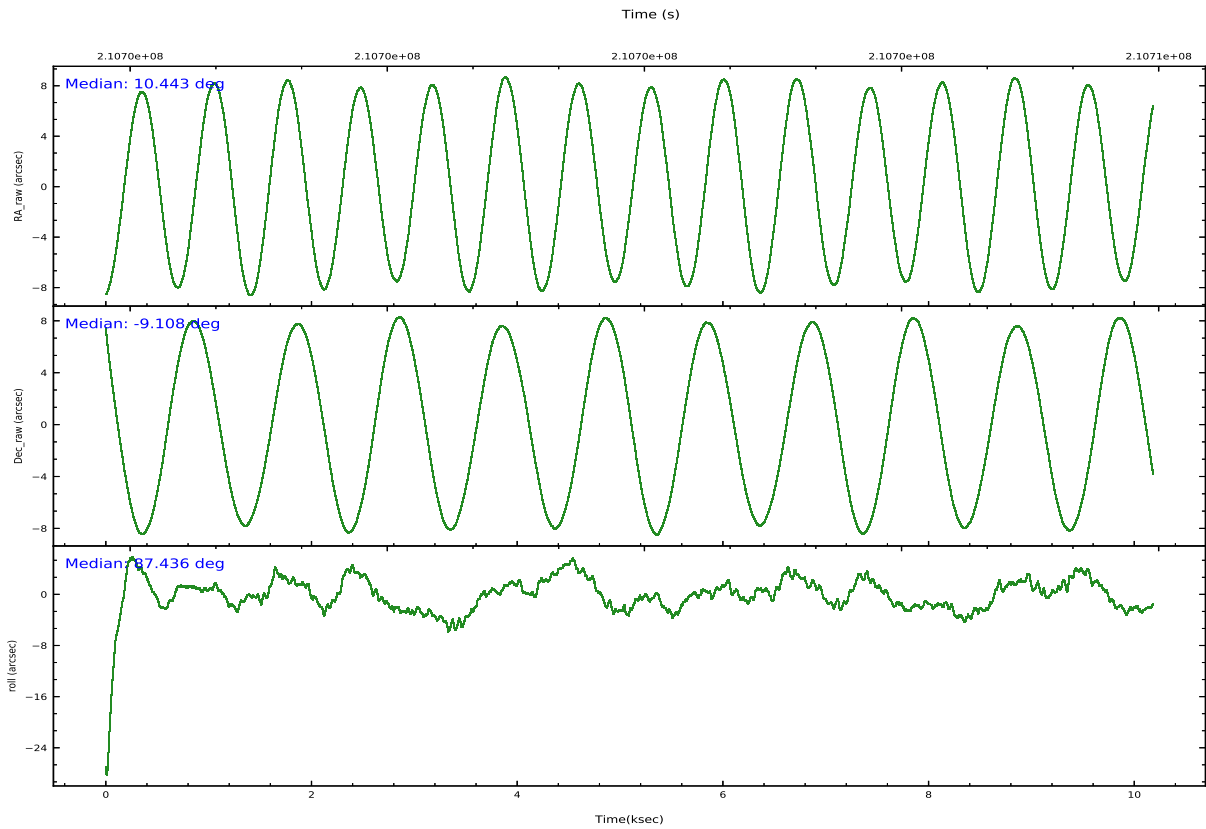
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	83444	83589	86736	91692	138531	116513	grade 0 events	4950	8452	4859	9439	12617	4368
rejected events	73654	69252	77518	76813	80286	73884		5%	10%	5%	10%	9%	3%
rejected %	88%	82%	89%	83%	57%	63%	grade 1 events	66	44	50	80	314	95
								0%	0%	0%	0%	0%	0%
							grade 2 events	2325	2810	1970	2541	17978	9531
								2%	3%	2%	2%	12%	8%
							grade 3 events	1059	1240	992	1159	2205	4359
								1%	1%	1%	1%	1%	3%
							grade 4 events	976	1168	990	1142	2200	4205
								1%	1%	1%	1%	1%	3%
							grade 5 events	3632	3597	3401	3821	9386	10988
								4%	4%	3%	4%	6%	9%
							grade 6 events	1863	2218	1631	1869	30692	25485
								2%	2%	1%	2%	22%	21%
							grade 7 events	68573	64060	72843	71641	63139	57482
								82%	76%	83%	78%	45%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012357	ACIS-012357	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	10.455739	10.445210309747	Subarray requested	NONE	NONE
[deg] Pointing Dec	-9.132572	-9.1097893628845	Alternating exposures requested	N	N
[deg] Pointing Roll	87.229723	87.435979065509	[s] Primary exposure time	0.000000	3.2
[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)	210697447.184000	210695731.67844			
Observation start date	2004-09-04T15:03:03	2004-09-04T14:35:31			
[s] Observation end time (MET)	210707447.184000	210707581.19147			
Observation end date	2004-09-04T17:49:43	2004-09-04T17:53:01			
Read mode	TIMED	TIMED			

2.3 Aspect





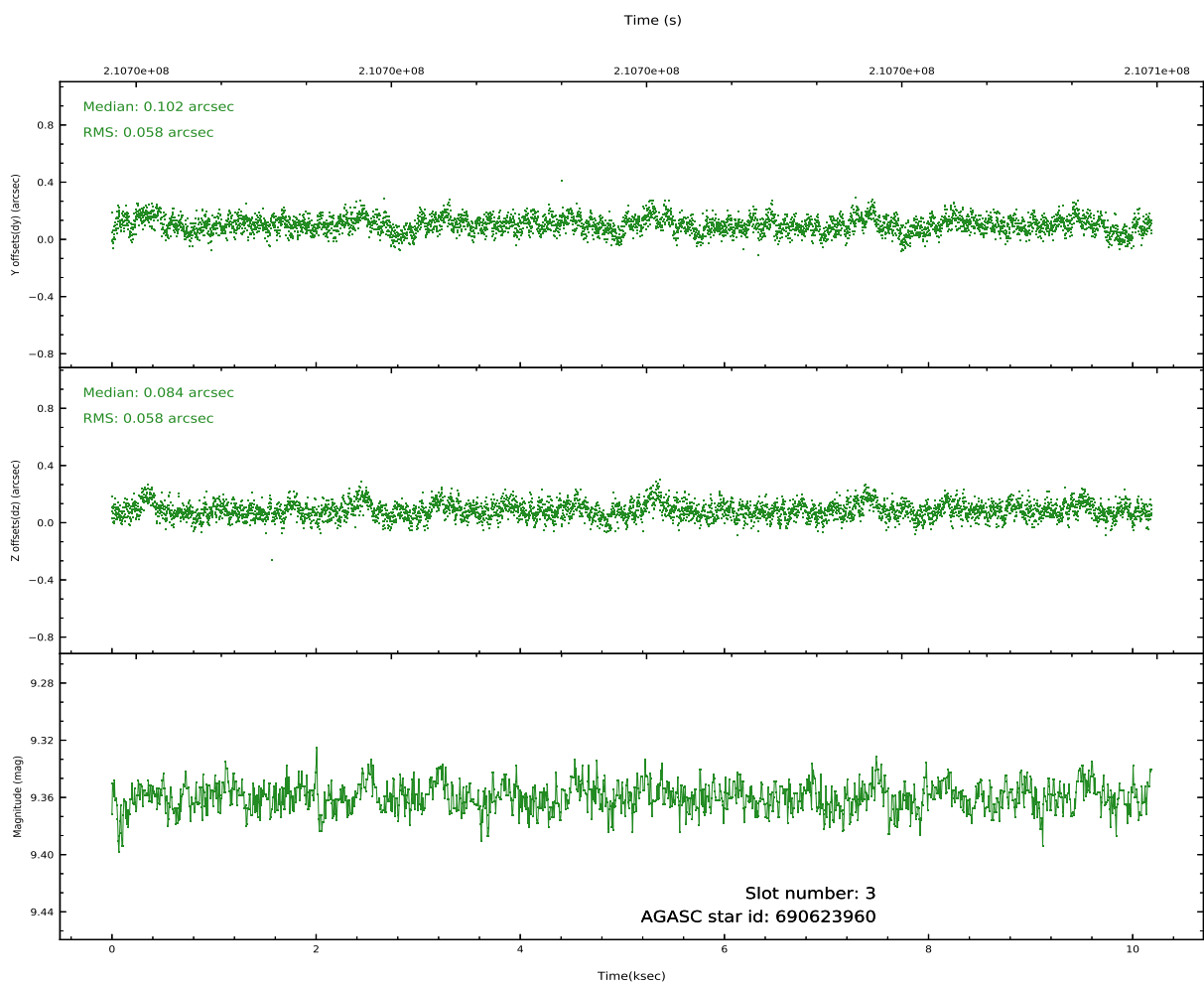
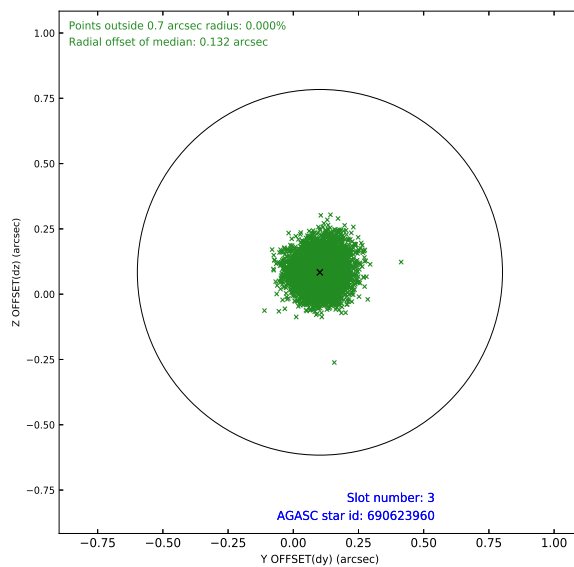
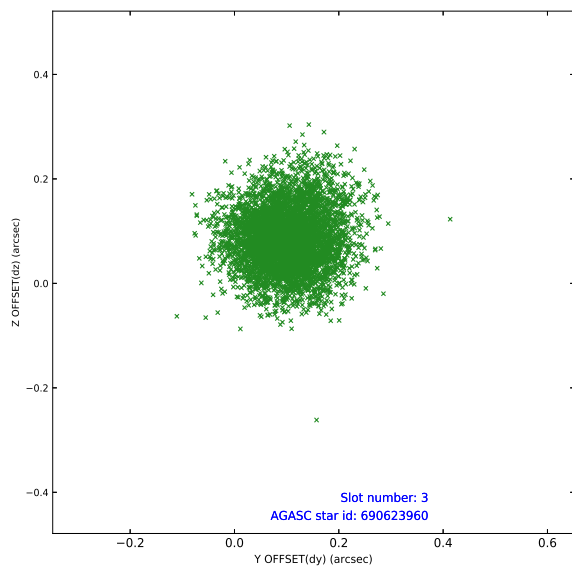
Slot Statistics

slot	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	2484	1.000	0.041	0.006	0.006	0.010	0.000000	0.000000	935.13	-831
1	FID		ACIS-I-5	7.22	2484	1.000	-0.205	0.051	0.006	0.010	0.000000	0.000000	-1812.95	1065
2	FID		ACIS-I-6	7.25	2484	1.000	0.074	0.013	0.006	0.010	0.000000	0.000000	400.13	1710
3	GUIDE	used	690623960	9.36	4967	1.000	0.102	0.084	0.087	0.142	10.570675	-9.168103	-107.72	-413
4	GUIDE	used	690625136	9.74	4963	1.000	-0.129	-0.040	0.119	0.196	10.395190	-8.489346	2302.50	327
5	GUIDE	used	690625776	9.15	4966	1.000	-0.026	-0.008	0.081	0.130	10.846019	-9.315741	-591.36	-1418
6	GUIDE	used	690632656	9.26	4963	1.000	0.073	-0.109	0.072	0.120	10.397747	-9.674983	-1960.33	110
7	GUIDE	used	690636928	9.26	4966	1.000	-0.019	0.064	0.097	0.155	11.054156	-9.568424	-1466.49	-2197

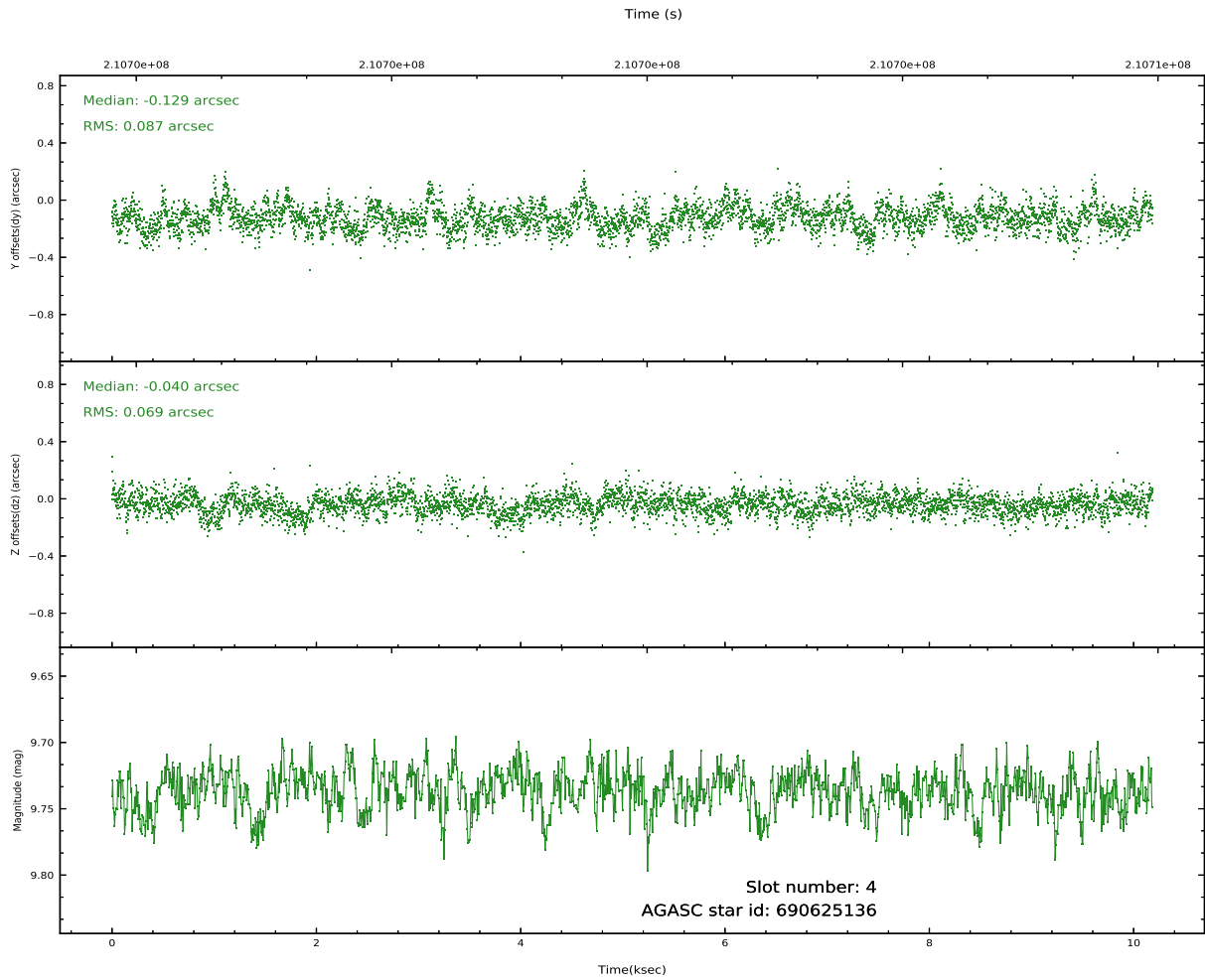
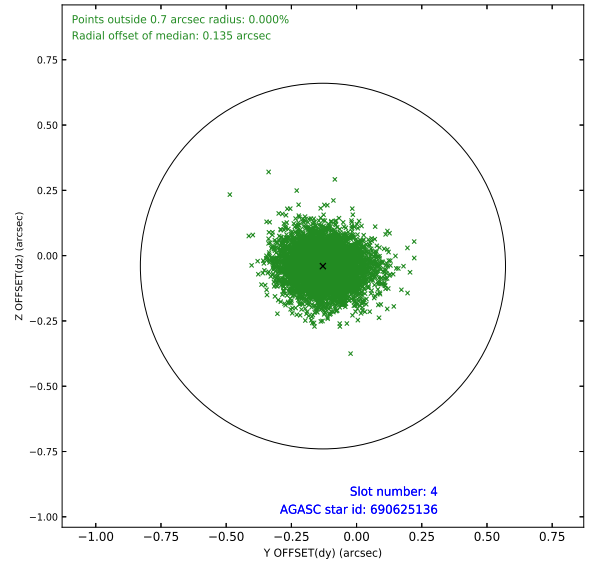
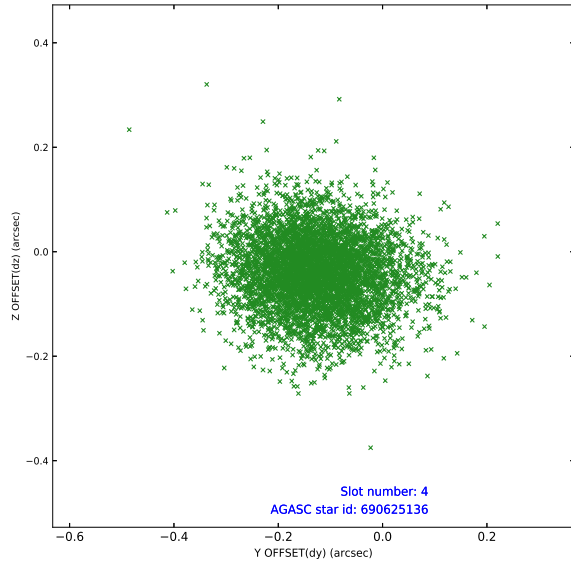
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2.4 Star Slots

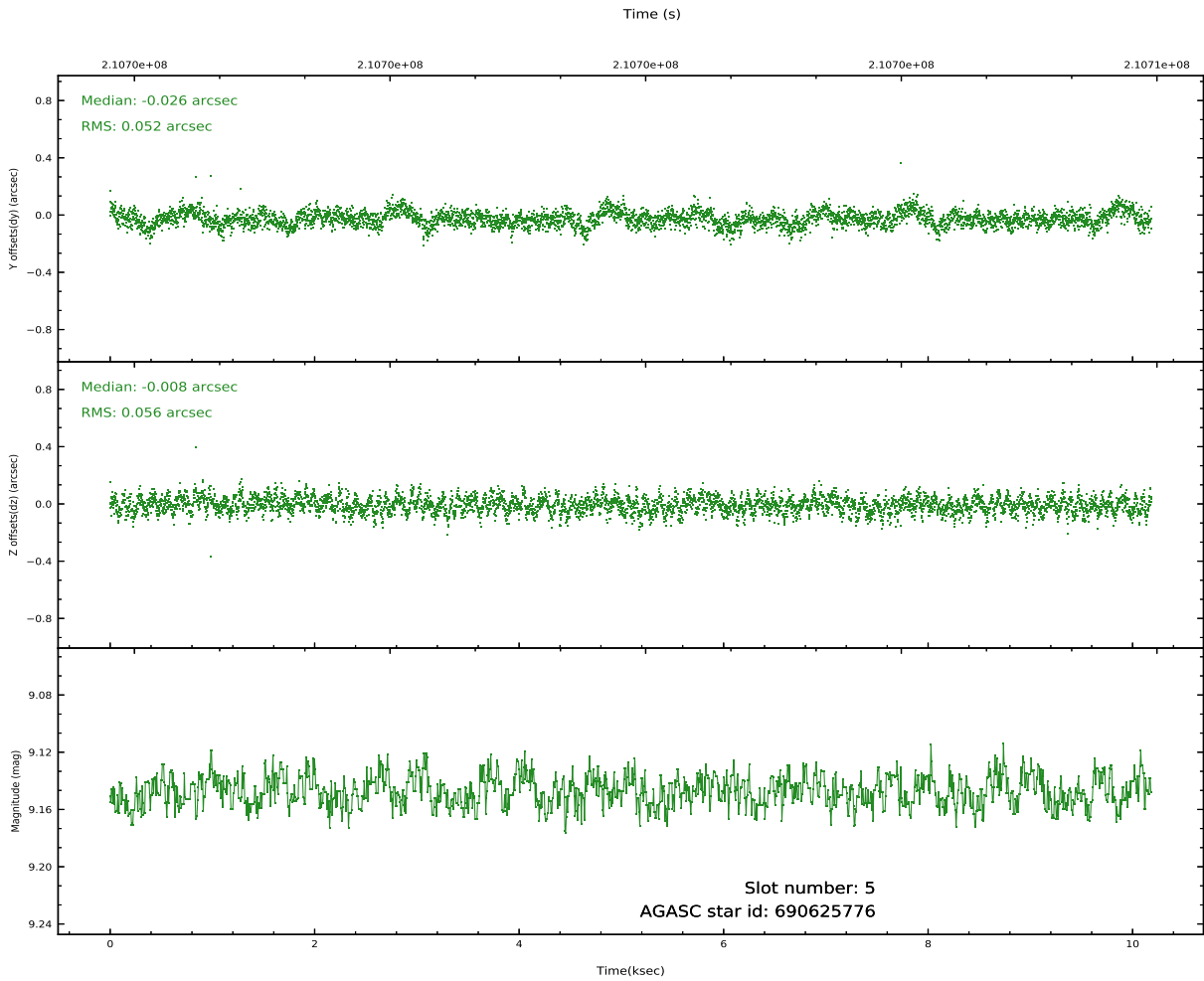
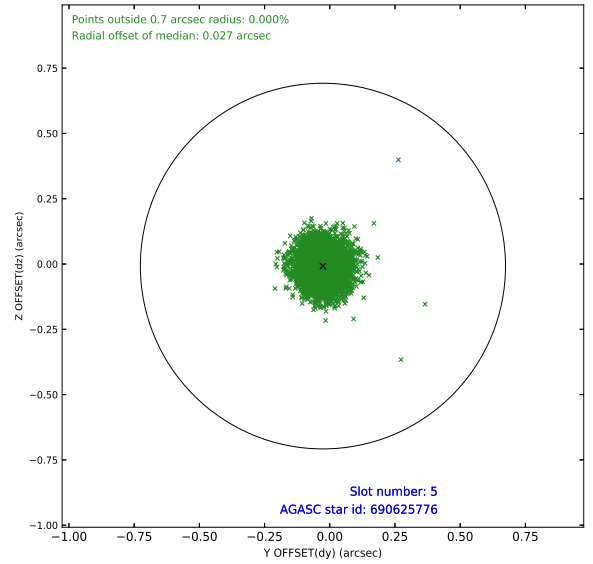
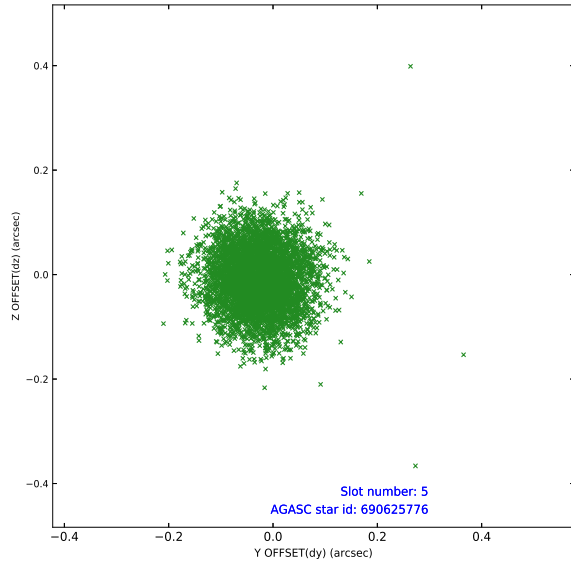
2.4.1 Slot 3



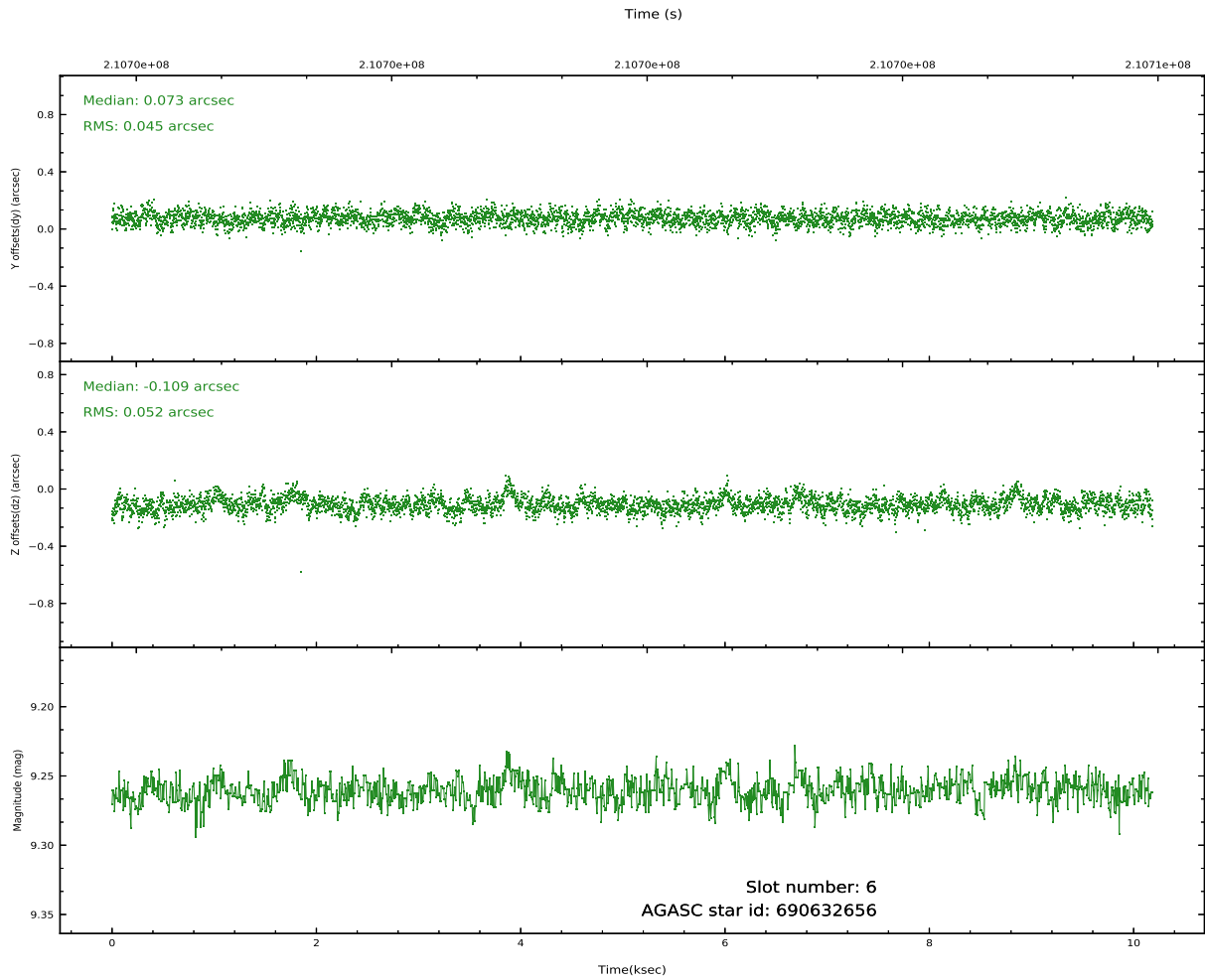
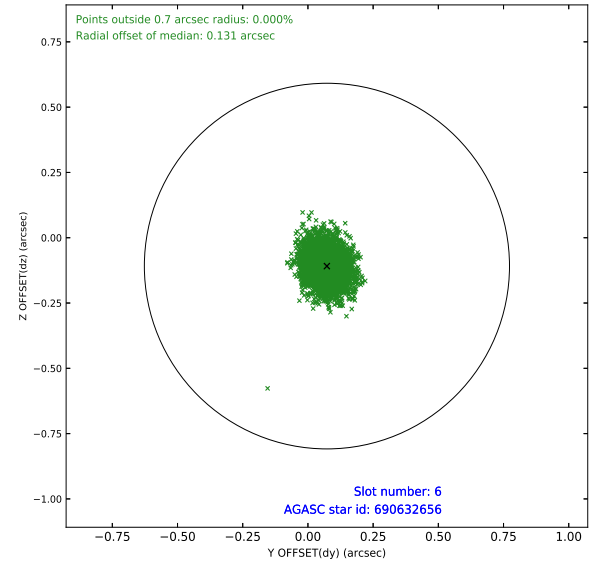
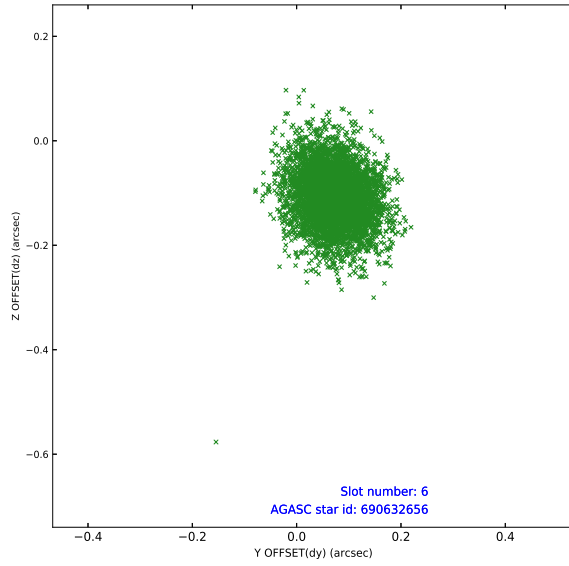
2.4.2 Slot 4



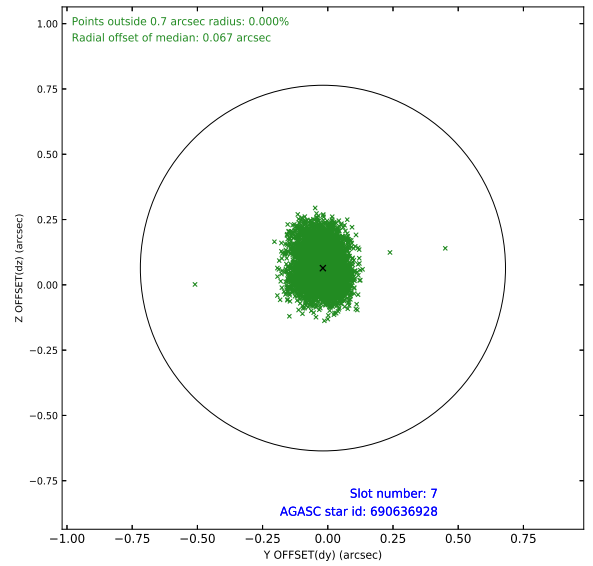
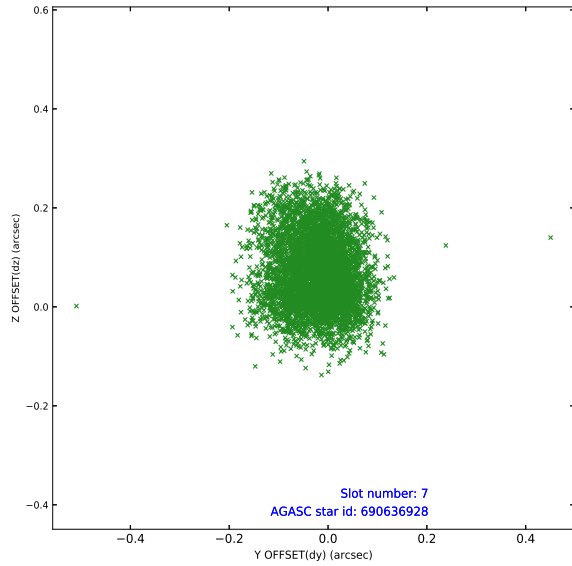
2.4.3 Slot 5



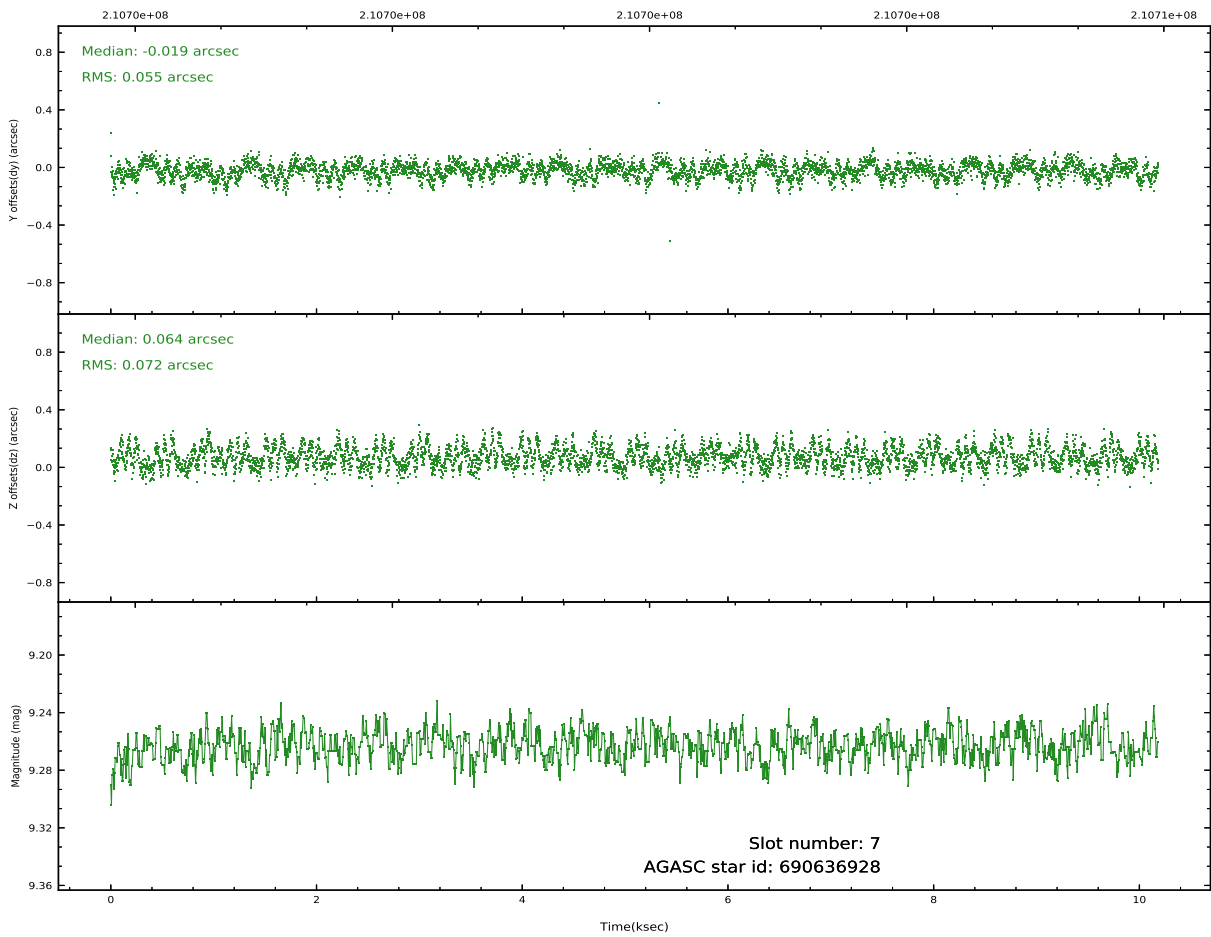
2.4.4 Slot 6



2.4.5 Slot 7

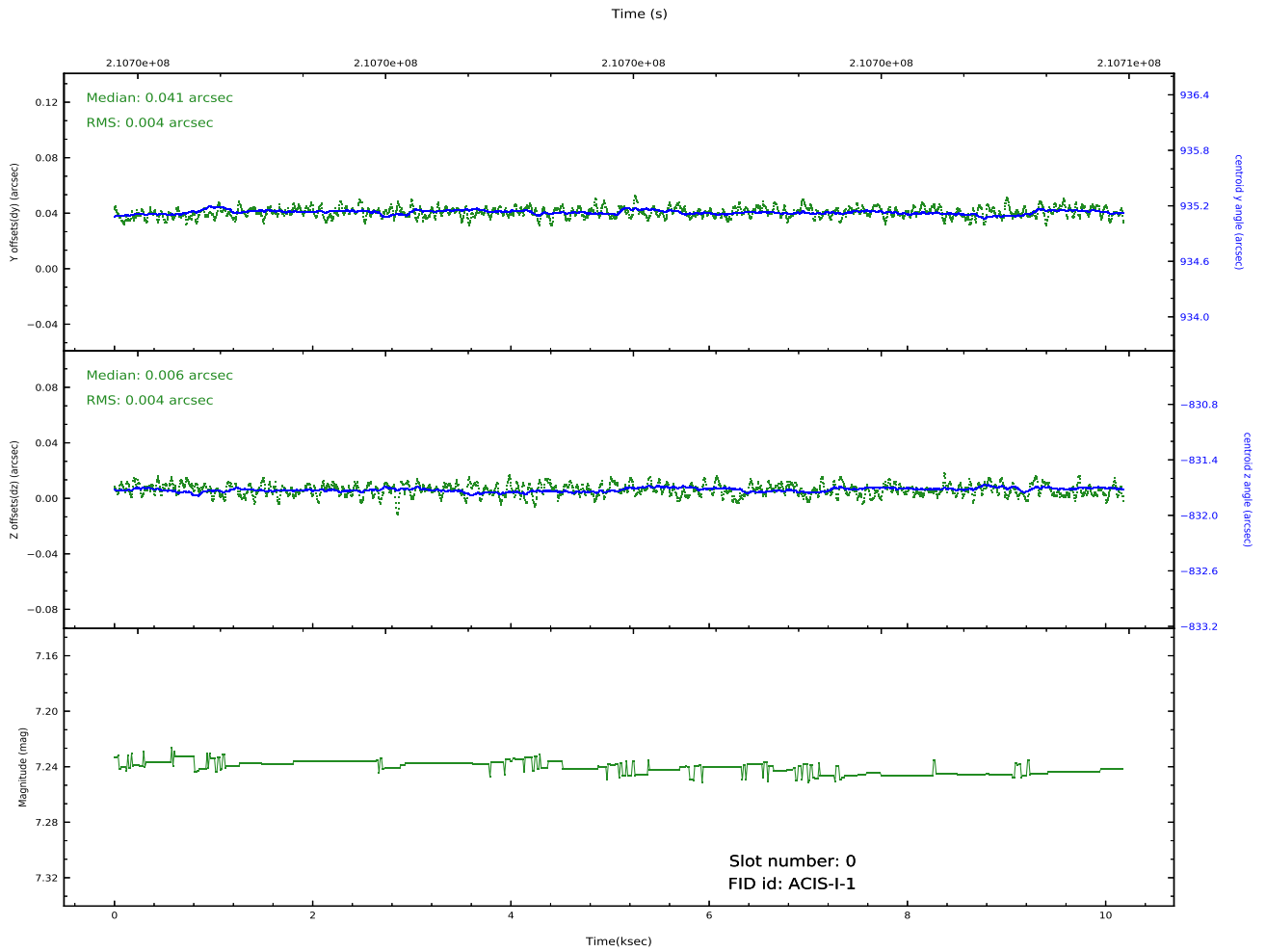
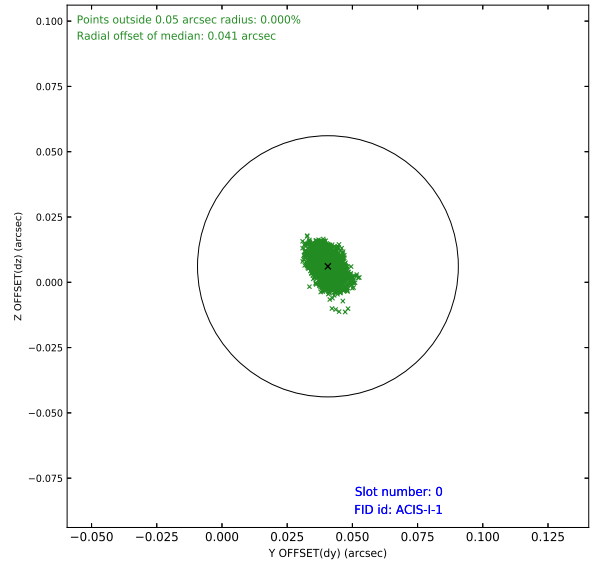
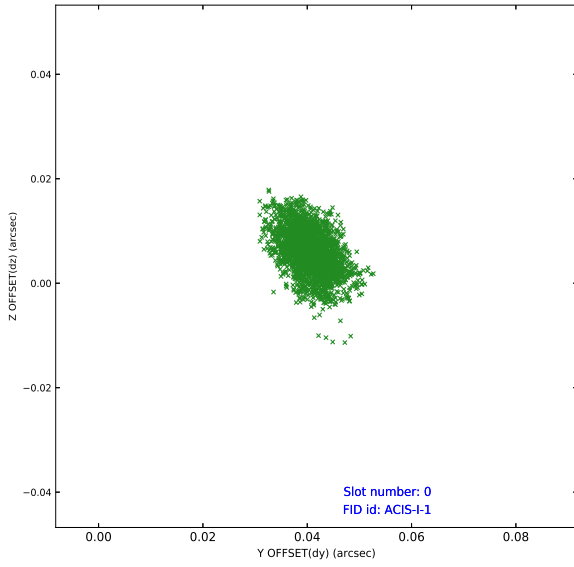


Time (s)

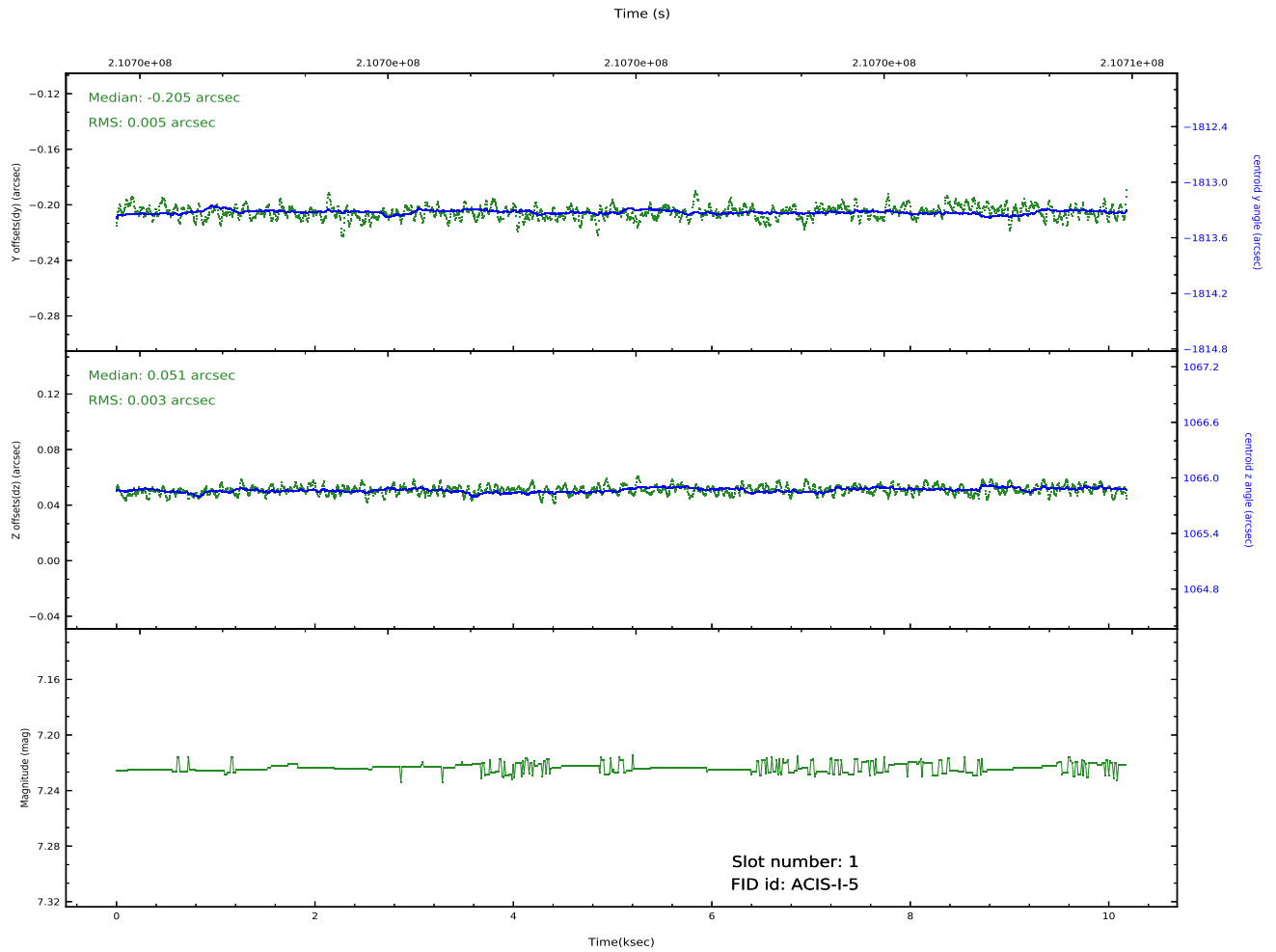
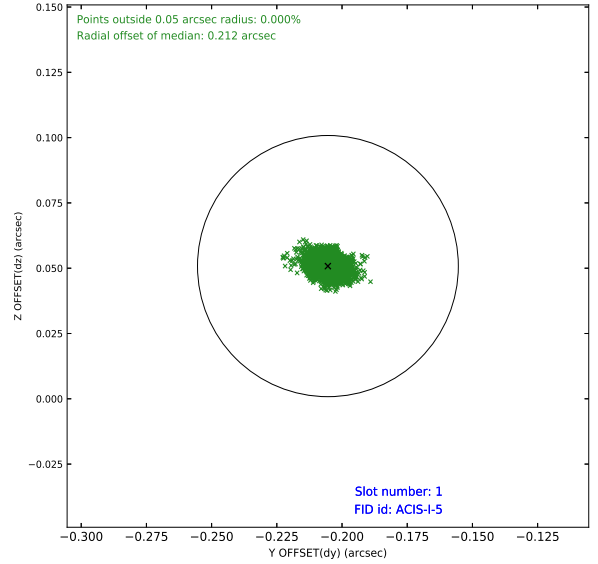
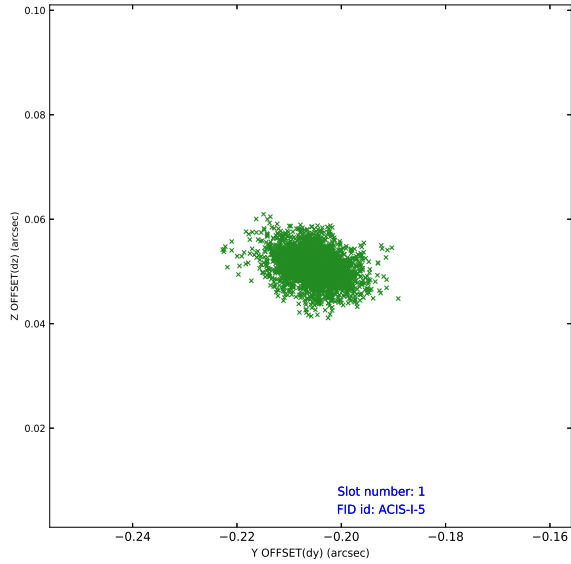


2.5 FID Slots

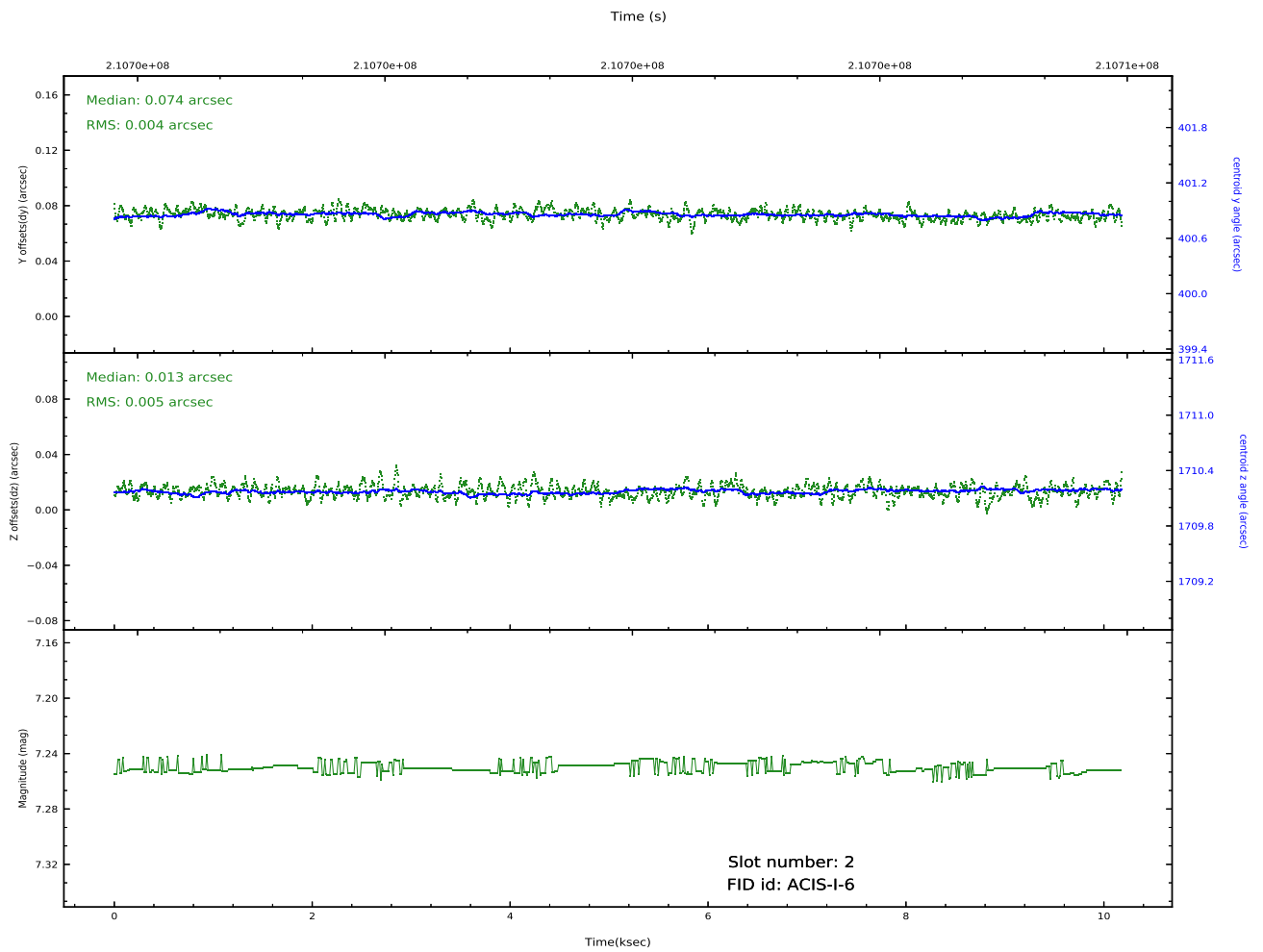
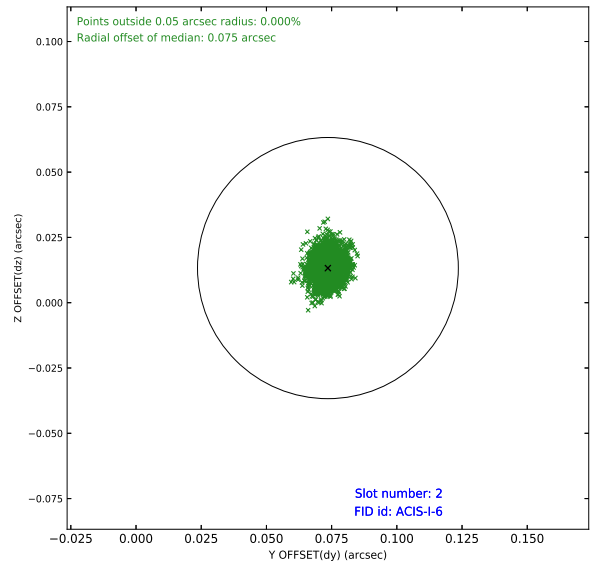
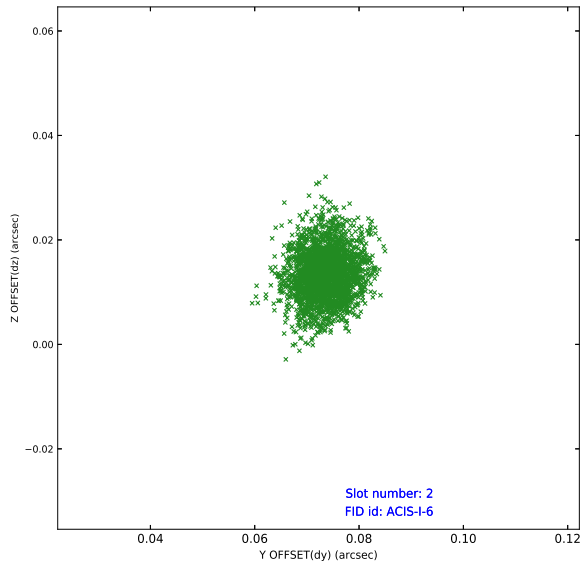
2.5.1 Slot 0



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)	2020.10.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.179

A.2 Comments