

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5428 - L2 Version 4
Chandra X-Ray Center

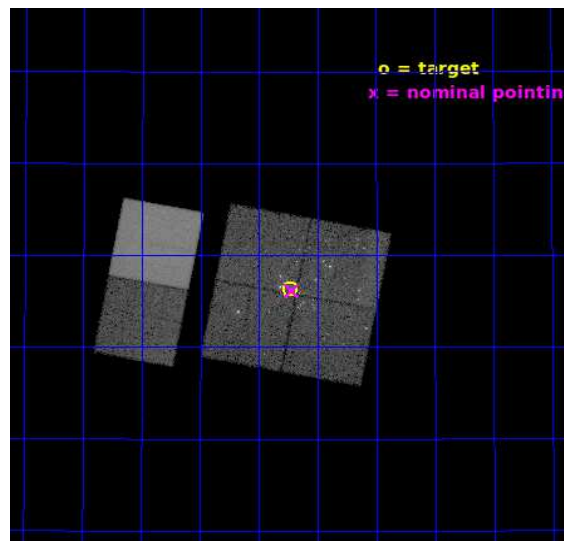
L2 Processing Date : Oct 7 2020

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1 Front

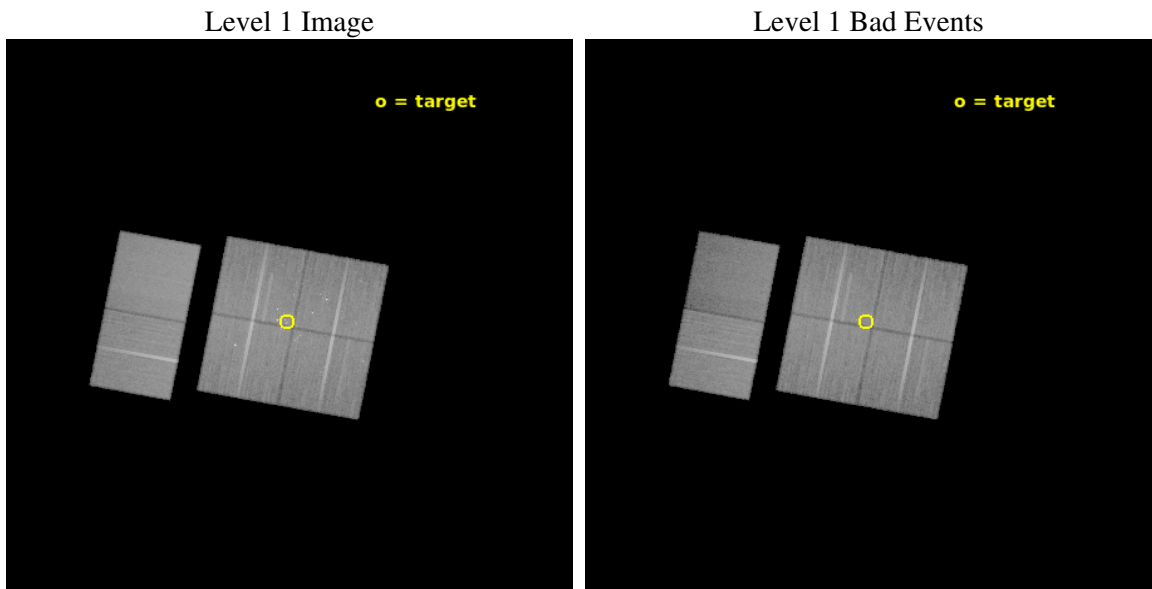
seq_num	200361	Sequence number
obs_id	5428	Observation id
title	Multi-Wavelength Signatures of Magnetic Activity in the Star-Forming Region around LkHa101	Proposal title
observer	Scott Wolk	Principal investigator
object	LkHa101 cluster	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	67.56	Observer's specified target RA [deg]
dec_targ	35.272833	Observer's specified target Dec [deg]
ra_nom	67.554891709096	Nominal RA [deg]
dec_nom	35.269295112524	Nominal Dec [deg]
roll_nom	280.76552938065	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40147.117860019	Sum of GTIs [s]
livetime	39638.750879984	Livetime [s]
ontime0	40150.358880132	Sum of GTIs [s]
ontime1	40140.635959268	Sum of GTIs [s]
ontime2	40150.358880132	Sum of GTIs [s]
ontime3	40147.117860019	Sum of GTIs [s]
ontime6	40150.35899964	Sum of GTIs [s]
ontime7	40153.599850416	Sum of GTIs [s]
l2events	235353	Number of level 2 events



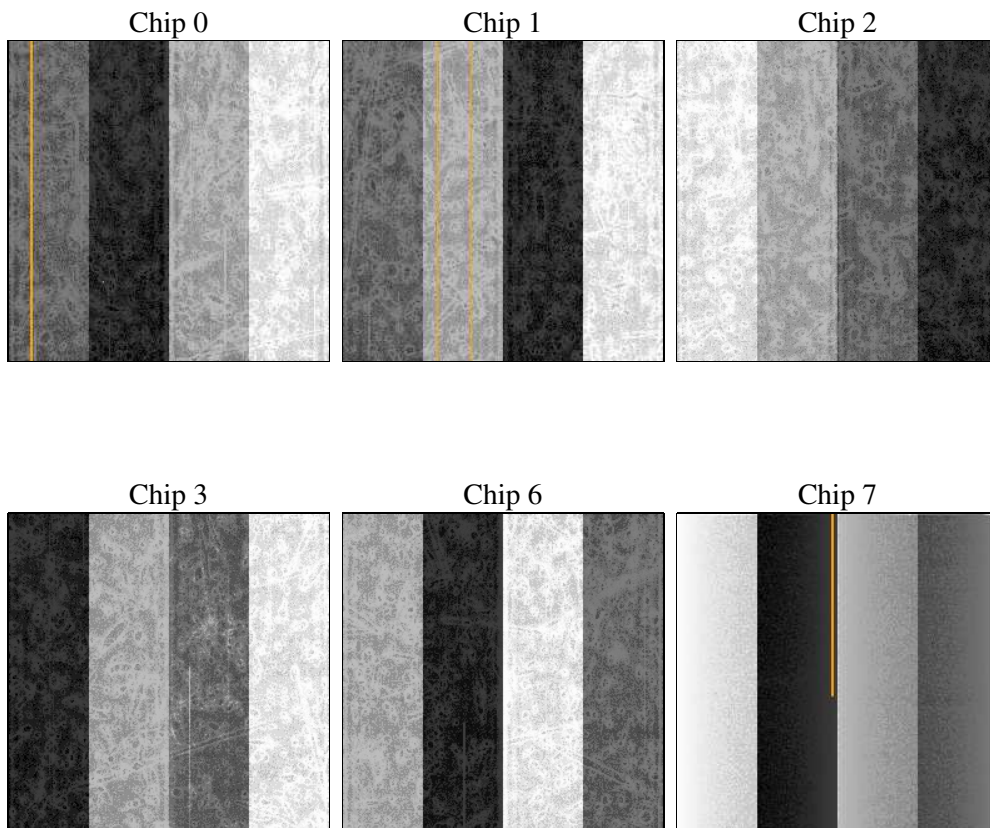
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	40147.117860019	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	40150.358880132	Sum of GTIs [s]
date	2020-10-07T04:38:07	Date and time of file creation	ontime1	40140.635959268	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	40150.358880132	Sum of GTIs [s]
			ontime3	40147.117860019	Sum of GTIs [s]
			ontime6	40150.35899964	Sum of GTIs [s]
			ontime7	40153.599850416	Sum of GTIs [s]
			l1events	1496716	Number of level 1 events

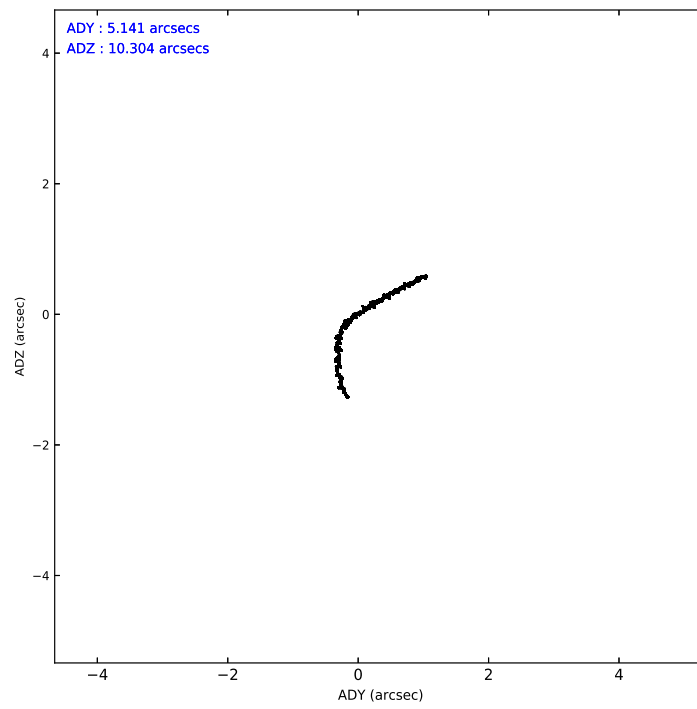
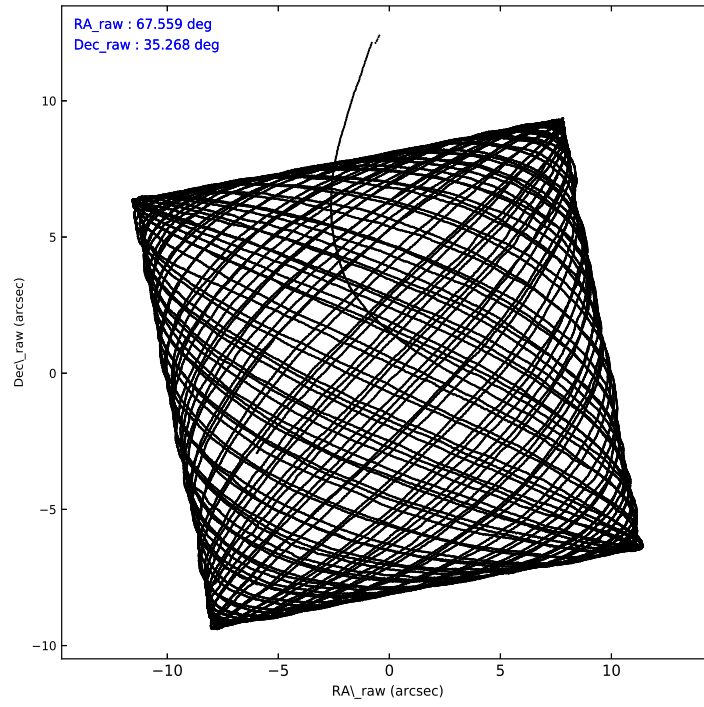
2.1.4 Events

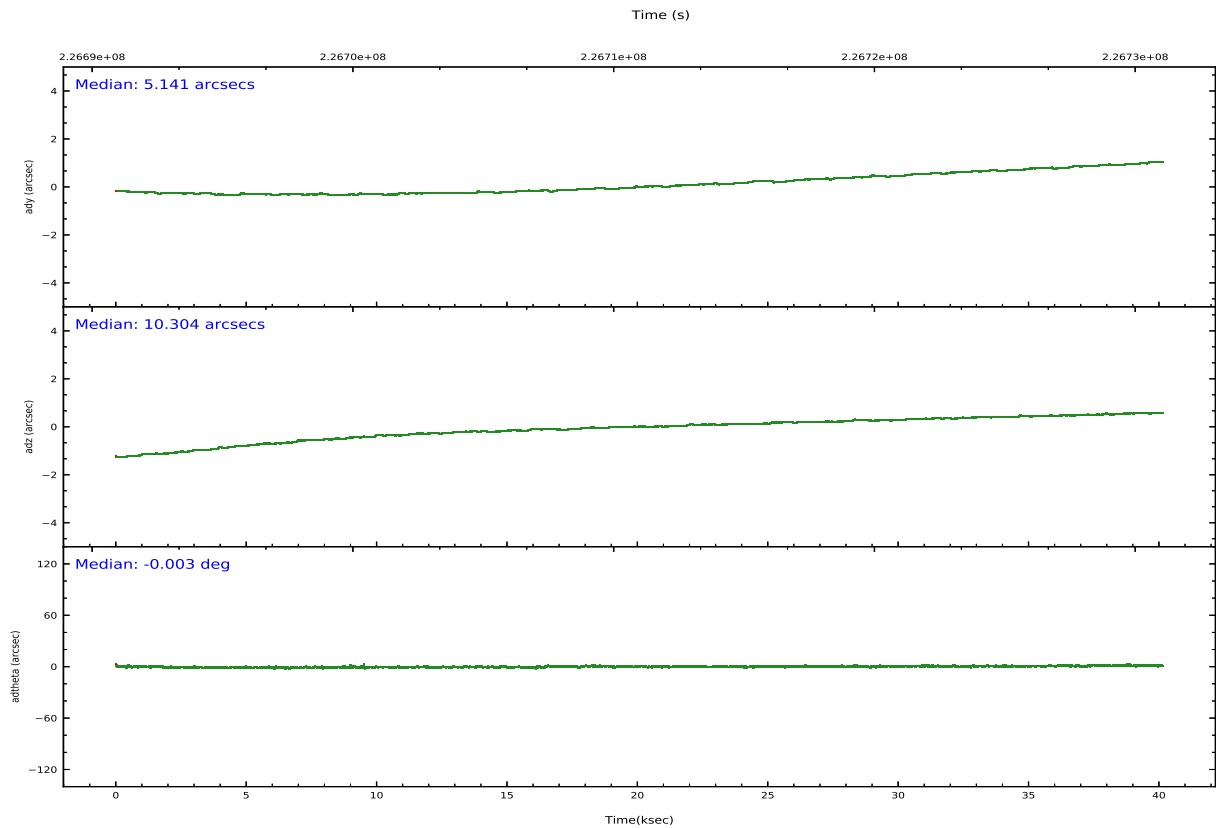
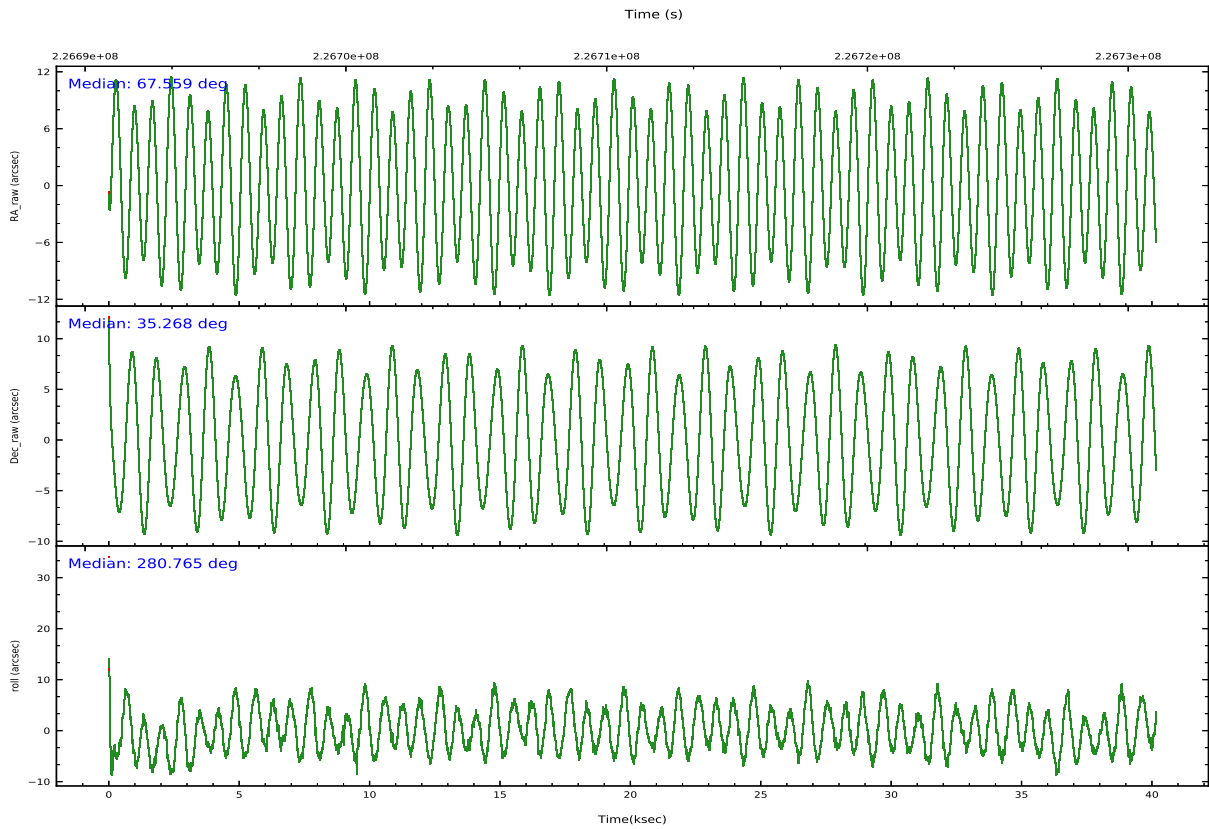
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	226461	233210	255085	249151	260012	272797	grade 0 events	9870	13314	10509	13144	8267	10451
rejected events	200336	201720	228546	219569	235068	149894		4%	5%	4%	5%	3%	3%
rejected %	88%	86%	89%	88%	90%	54%	grade 1 events	134	151	161	260	118	235
								0%	0%	0%	0%	0%	0%
							grade 2 events	5933	6340	5966	5795	5561	24916
								2%	2%	2%	2%	2%	9%
							grade 3 events	2910	3119	2795	2939	2842	11625
								1%	1%	1%	1%	1%	4%
							grade 4 events	2705	3240	2799	2890	2888	11708
								1%	1%	1%	1%	1%	4%
							grade 5 events	8659	9362	8117	9912	10237	29245
								3%	4%	3%	3%	3%	10%
							grade 6 events	4837	5636	4579	4945	5516	64826
								2%	2%	1%	1%	2%	23%
							grade 7 events	191413	192048	220159	209266	224583	119791
								84%	82%	86%	83%	86%	43%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-012367	ACIS-012367	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	67.536791	67.554891709096	Subarray requested	NONE	NONE
[deg] Pointing Dec	35.288969	35.269295112524	Alternating exposures requested	N	N
[deg] Pointing Roll	280.576814	280.76552938065	[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)	226691071.184000	226689913.88505			
Observation start date	2005-03-08T17:43:27	2005-03-08T17:25:13			
[s] Observation end time (MET)	226731071.184000	226732129.02446			
Observation end date	2005-03-09T04:50:07	2005-03-09T05:08:49			
Read mode	TIMED	TIMED			

2.3 Aspect





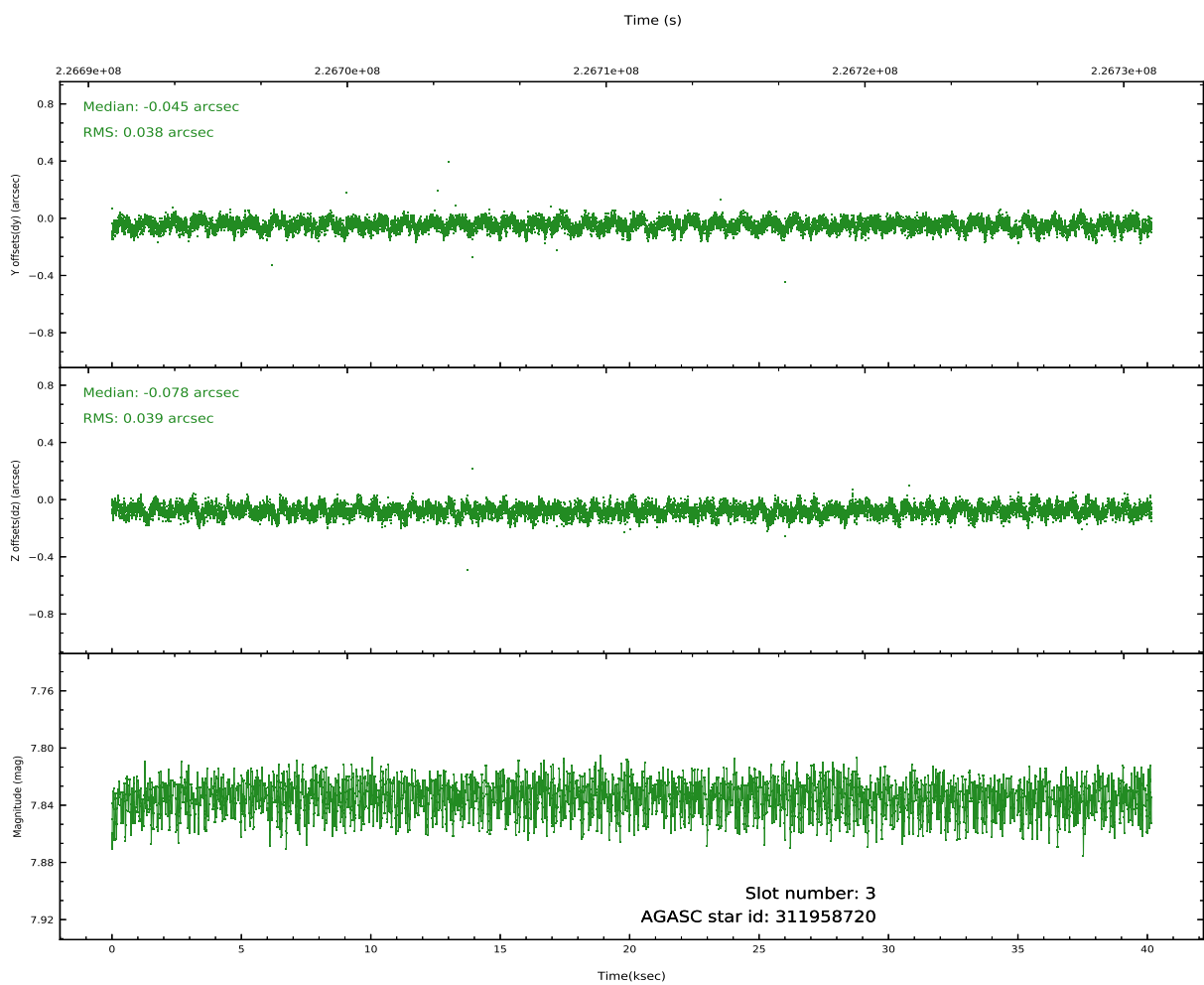
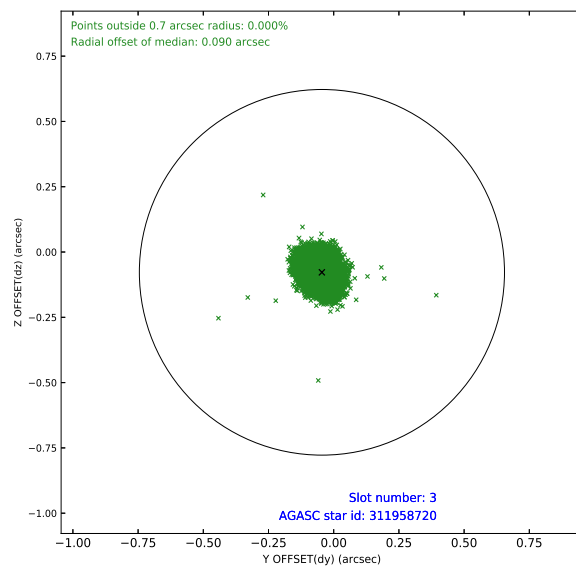
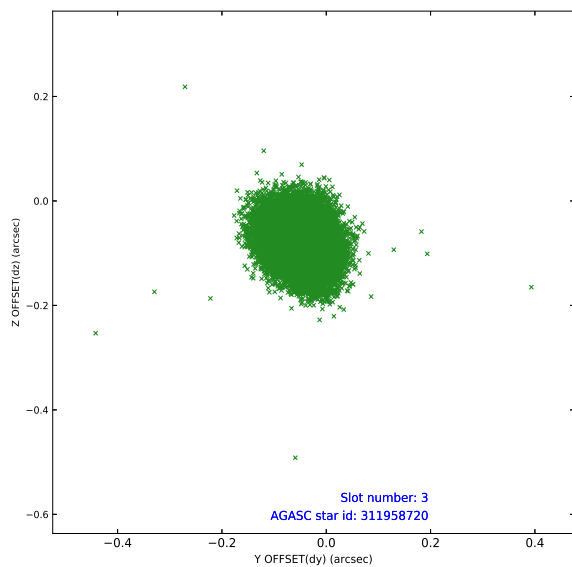
Slot Statistics

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	9795	1.000	-0.002	-0.036	0.023	0.052	0.000000	0.000000	934.47	-833
1	FID		ACIS-I-4	7.17	9793	1.000	0.126	0.048	0.026	0.047	0.000000	0.000000	2154.63	1066
2	FID		ACIS-I-5	7.22	9793	1.000	-0.225	0.058	0.022	0.034	0.000000	0.000000	-1813.76	1064
3	GUIDE	used	311958720	7.83	19591	1.000	-0.045	-0.078	0.058	0.091	67.019976	35.020500	667.13	-1674
4	GUIDE	used	311963432	9.83	19508	1.000	0.051	0.035	0.119	0.191	66.894392	34.792266	1404.00	-2193
5	GUIDE	used	311963616	7.51	19590	1.000	0.005	-0.018	0.057	0.091	67.301368	35.265783	-45.15	-695
6	GUIDE	used	312084320	9.62	19576	1.000	0.122	-0.043	0.114	0.195	67.603566	35.117886	642.05	80
7	GUIDE	used	312086640	8.67	19587	1.000	-0.132	0.101	0.068	0.113	67.746042	35.599832	-988.75	808

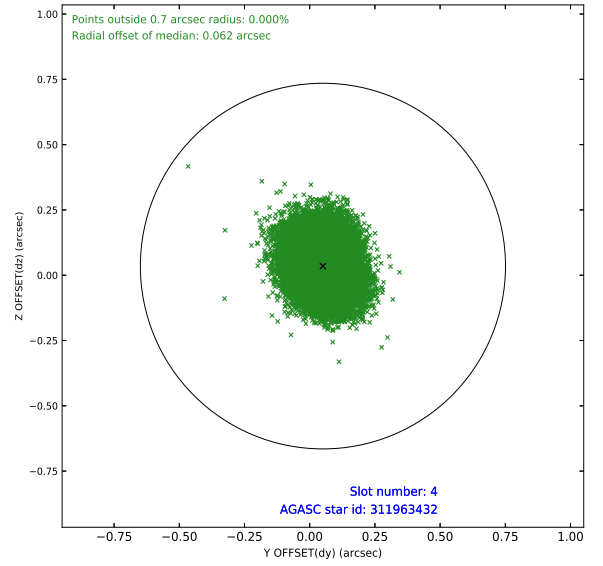
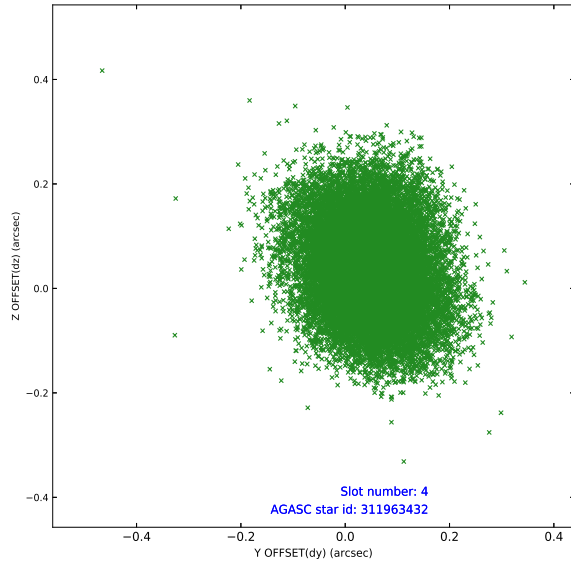
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2.4 Star Slots

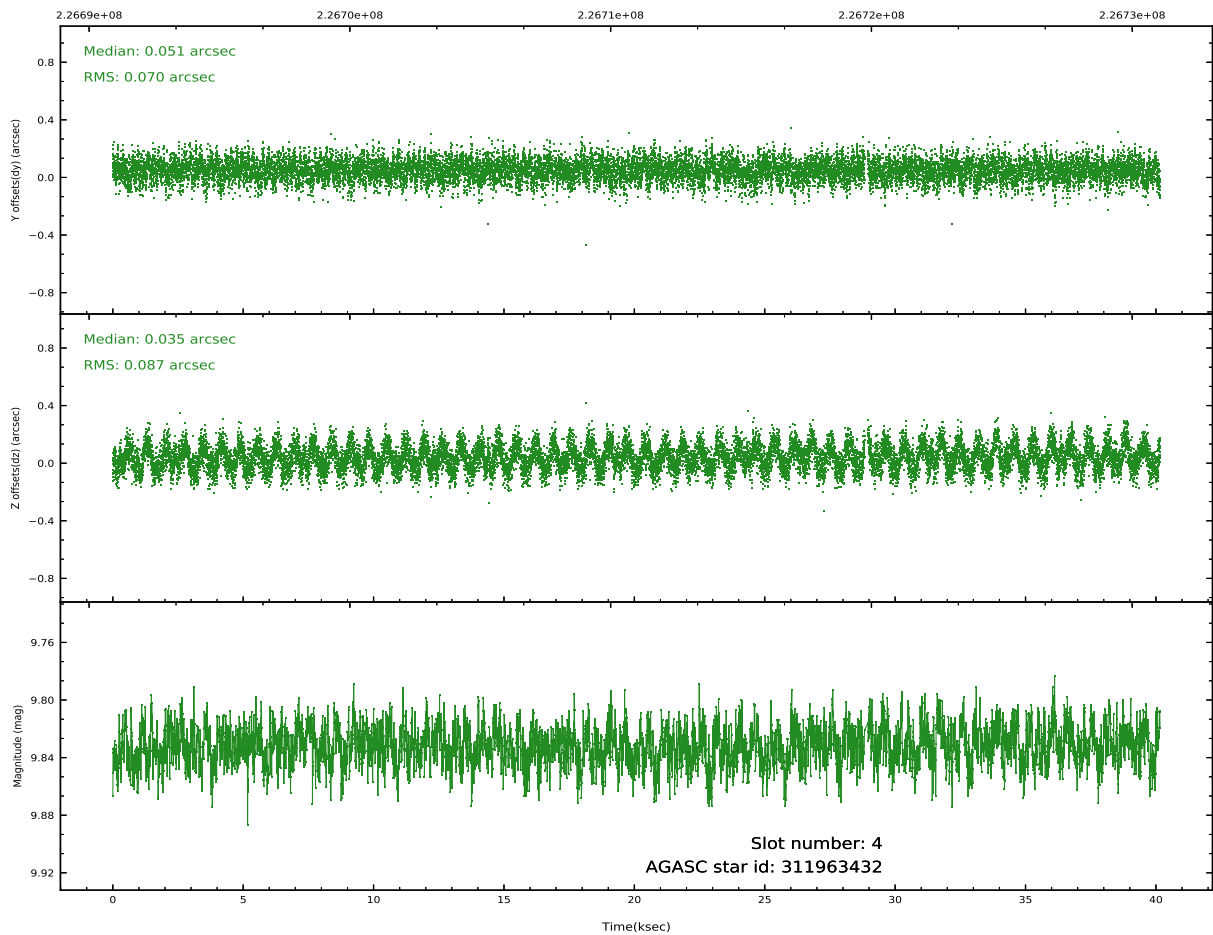
2.4.1 Slot 3



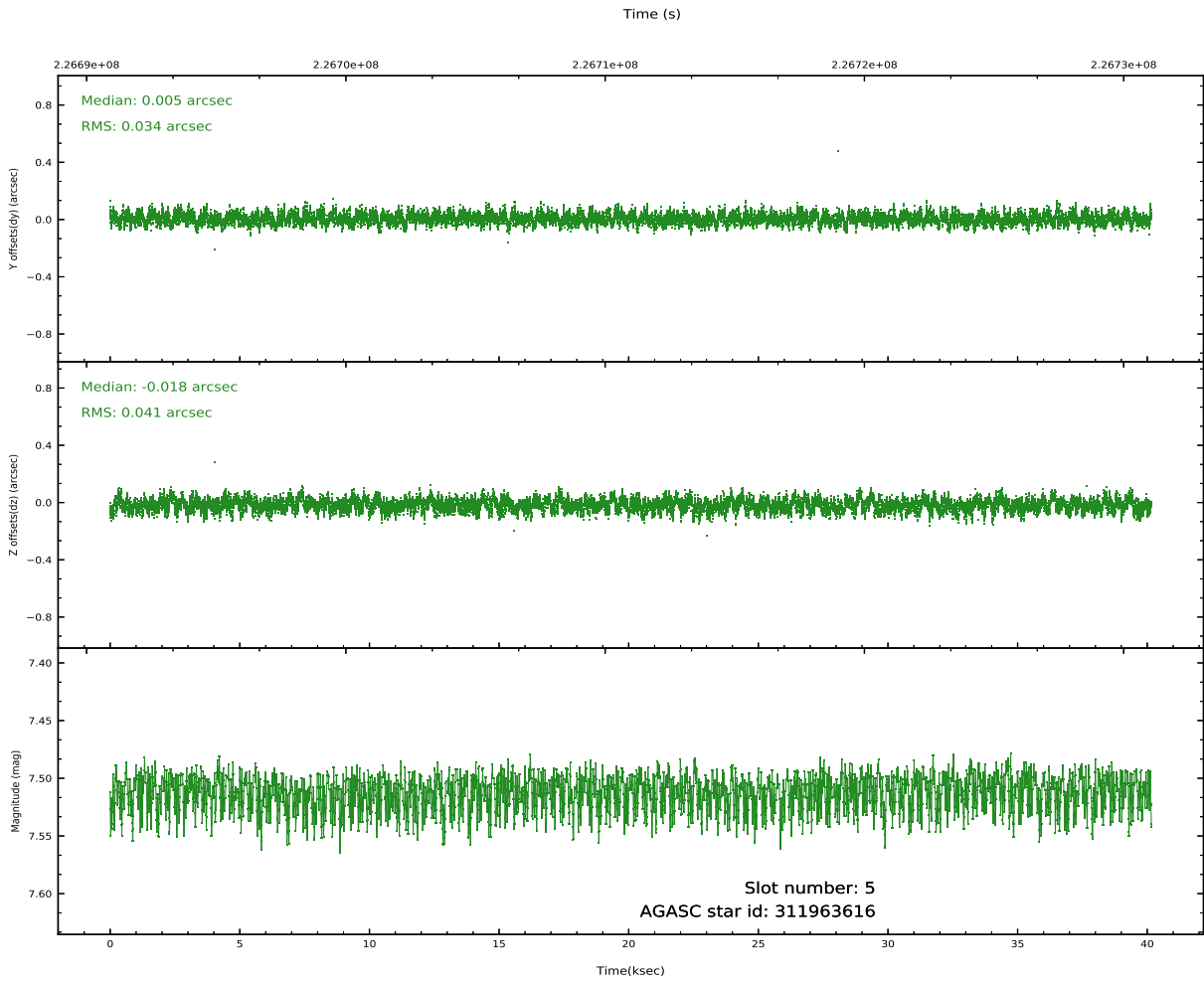
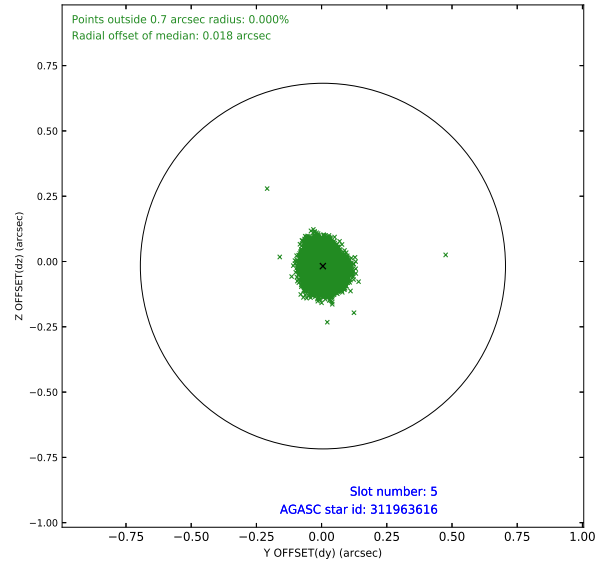
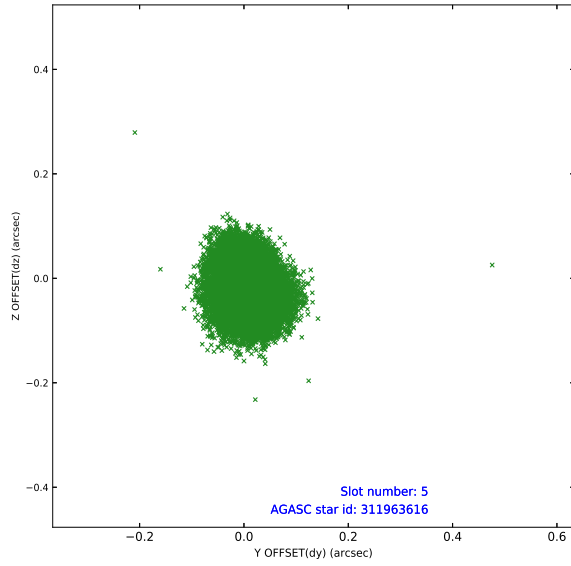
2.4.2 Slot 4



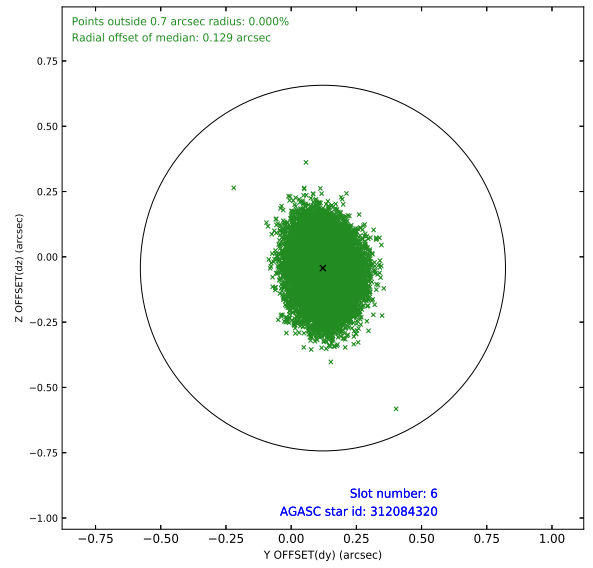
Time (s)



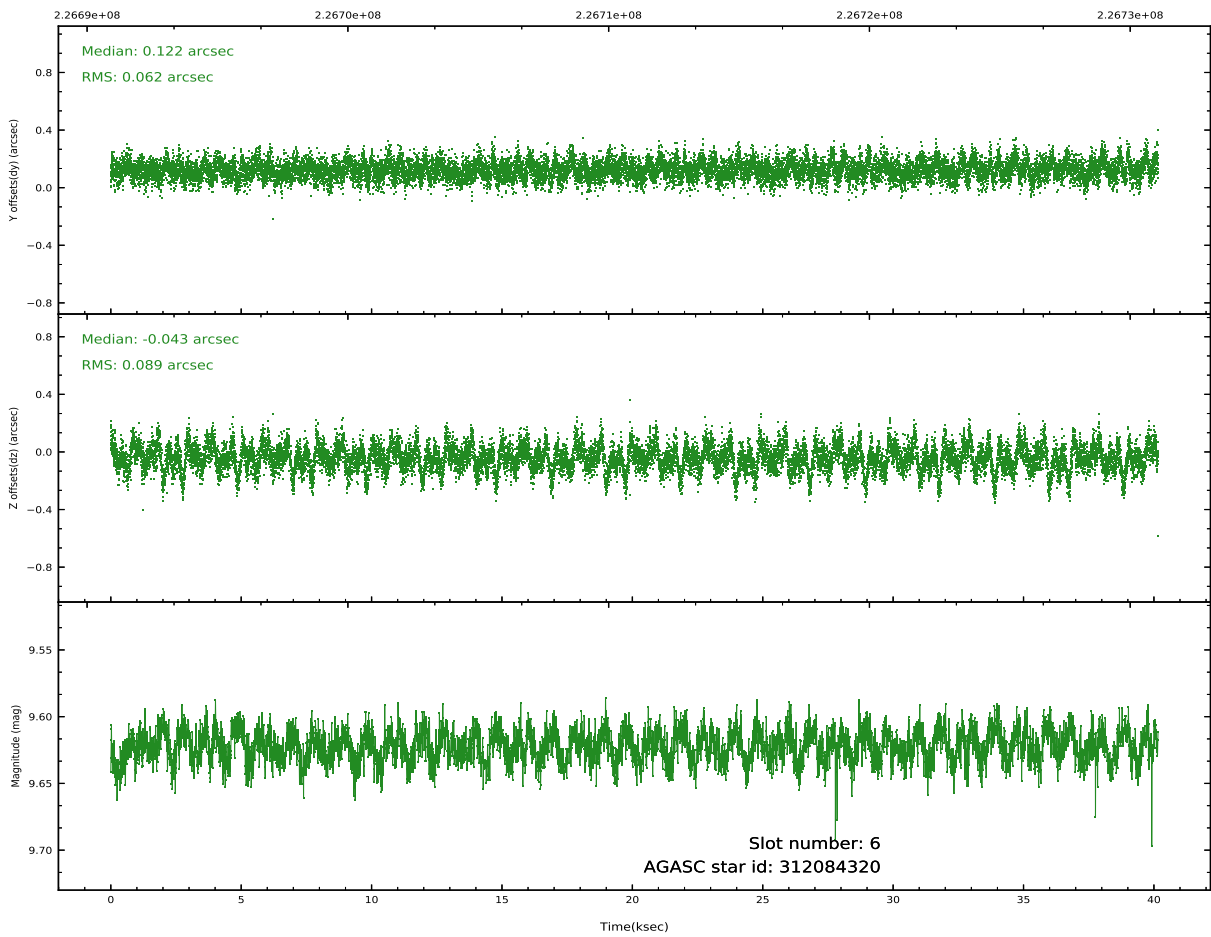
2.4.3 Slot 5



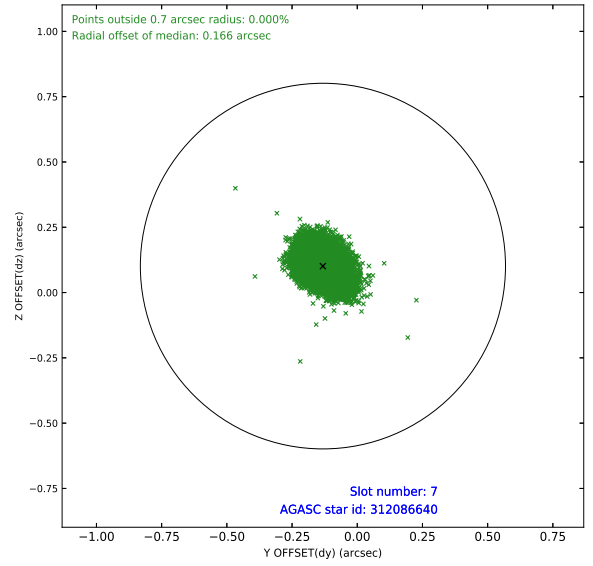
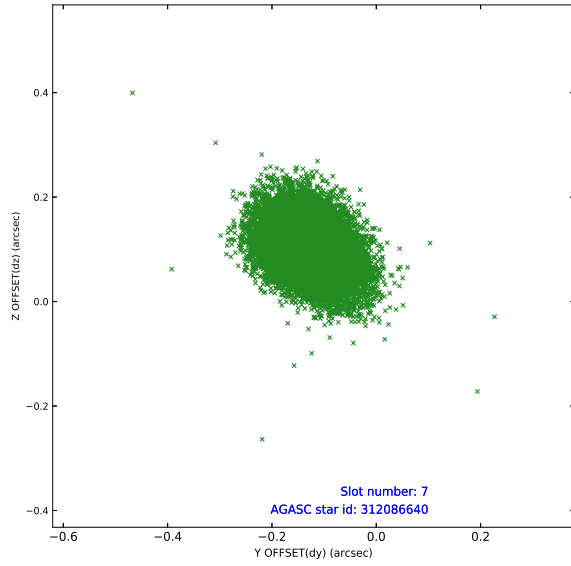
2.4.4 Slot 6



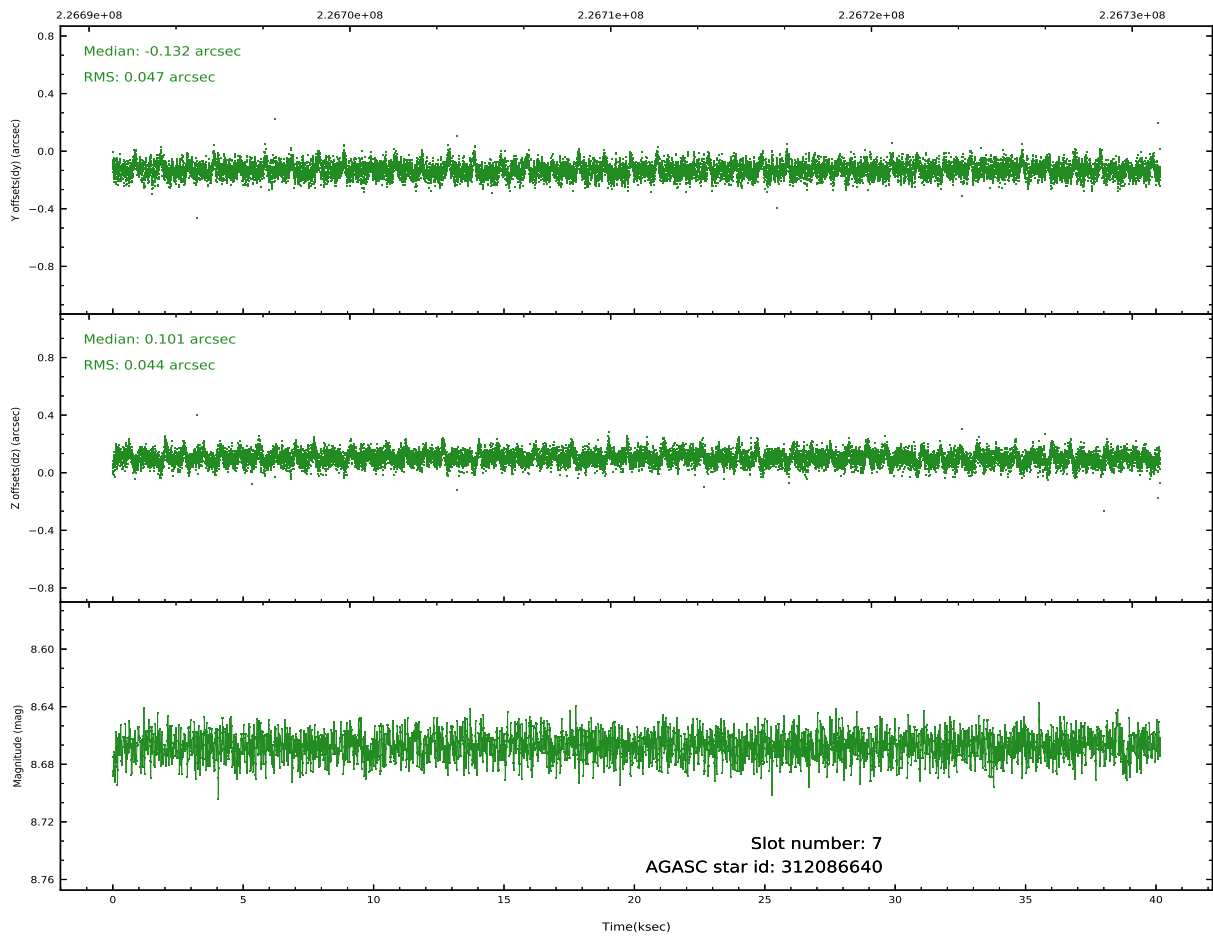
Time (s)



2.4.5 Slot 7

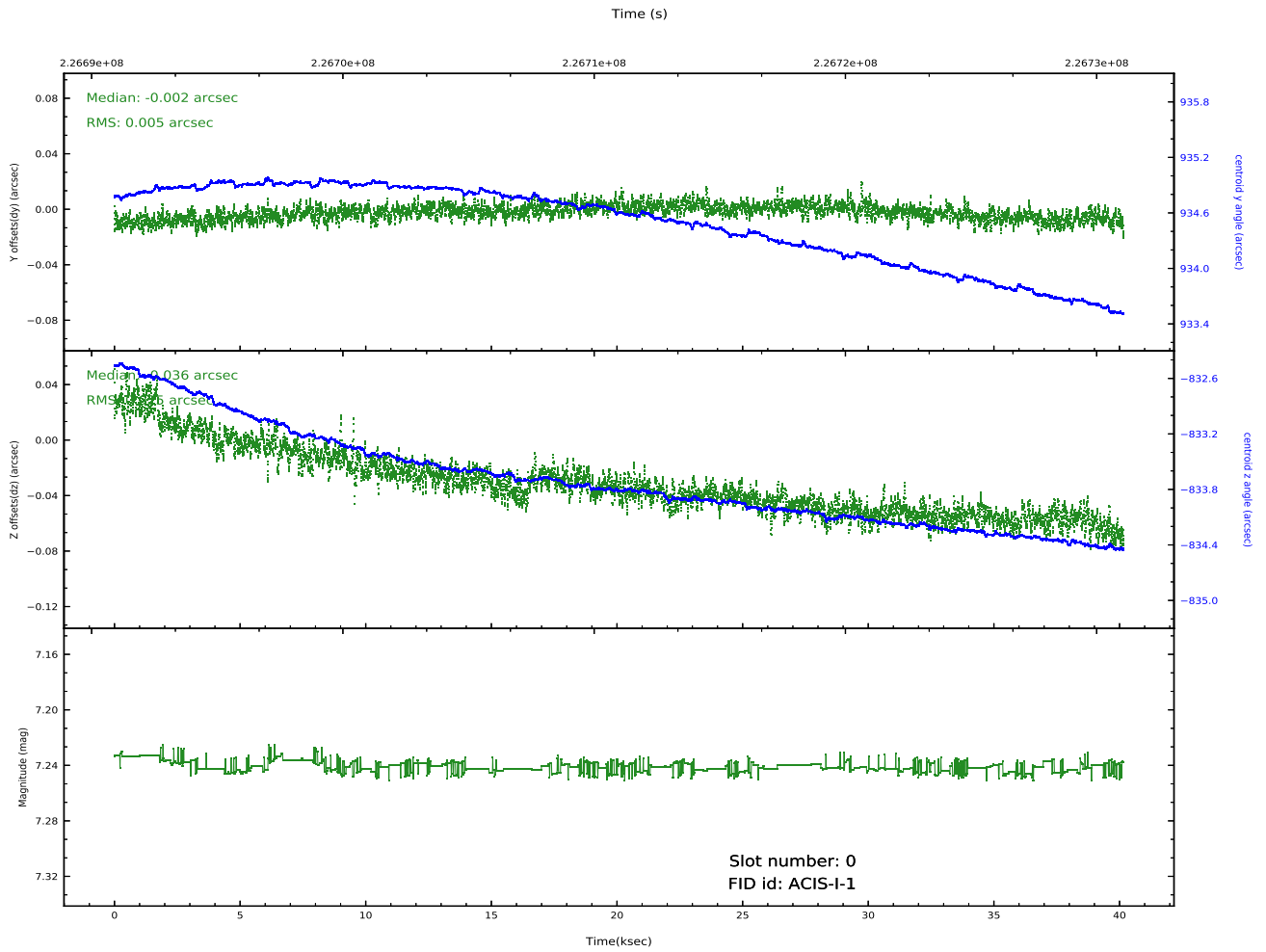
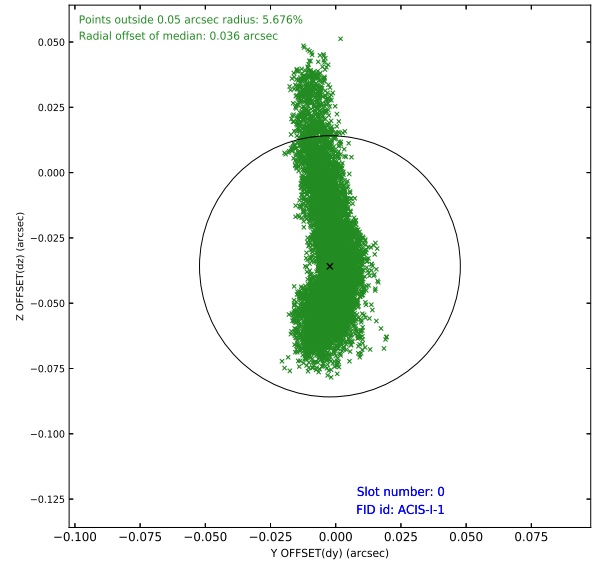
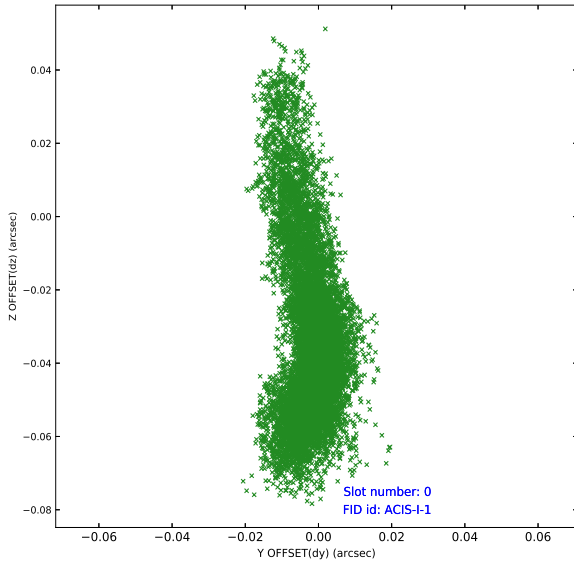


Time (s)

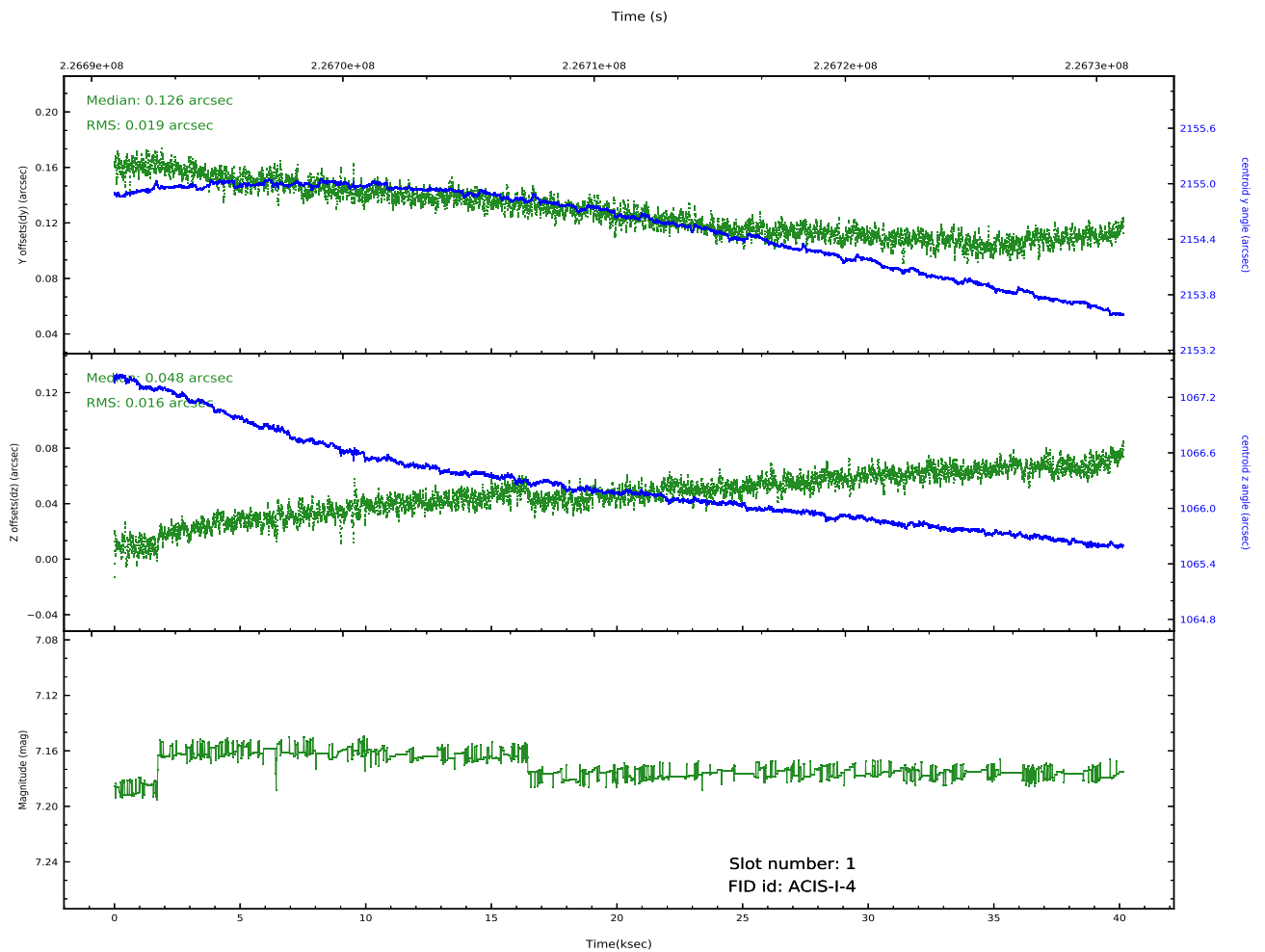
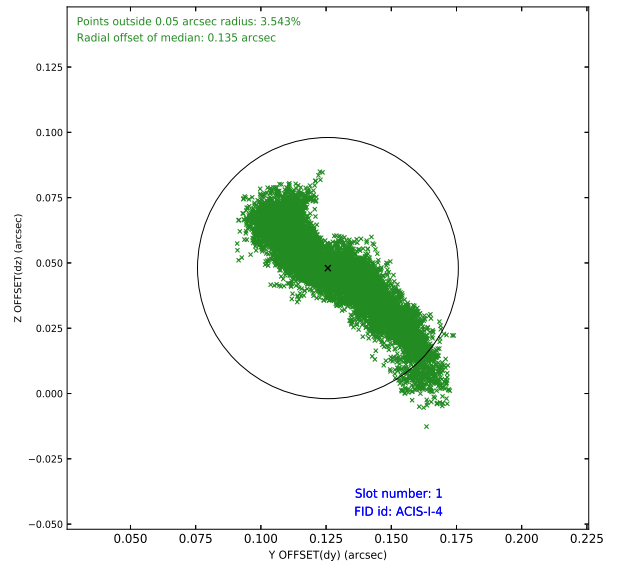
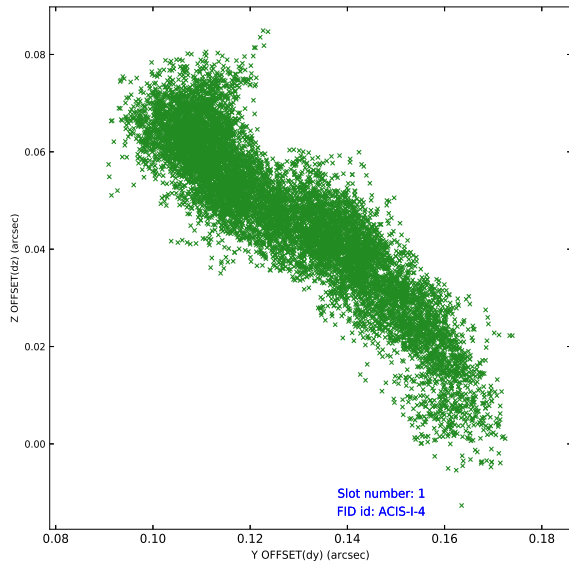


2.5 FID Slots

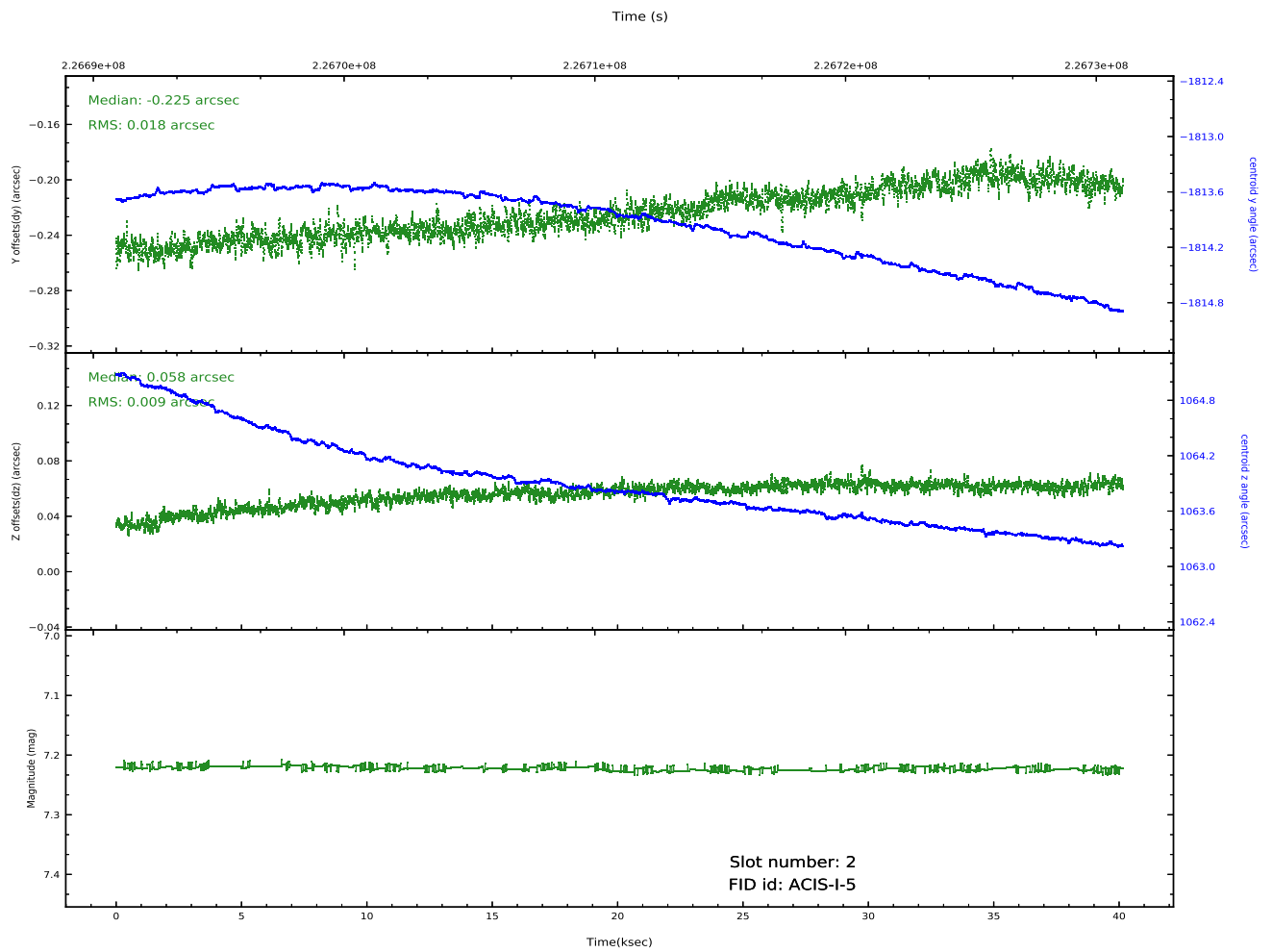
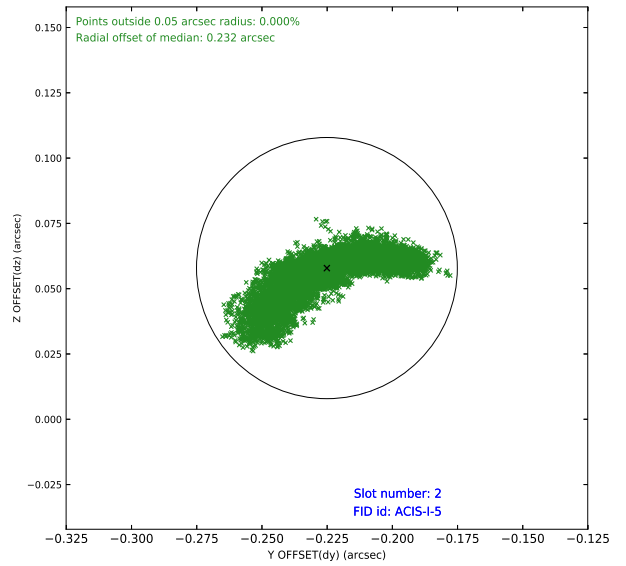
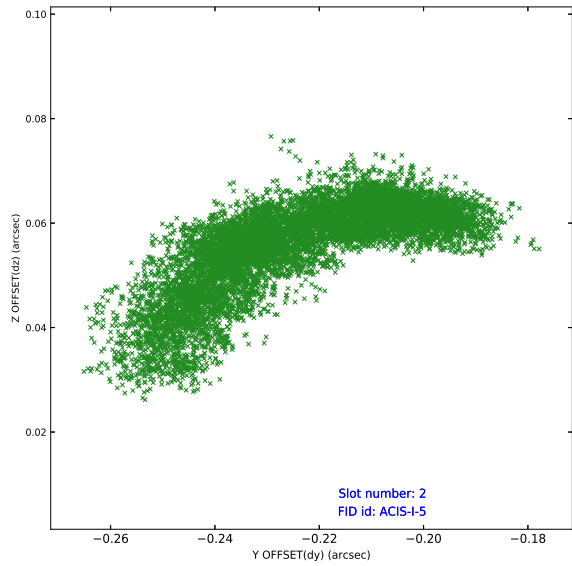
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.14711

A.2 Comments

Joint Proposal: NRAO