

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20616 - L2 Version 2
Chandra X-Ray Center

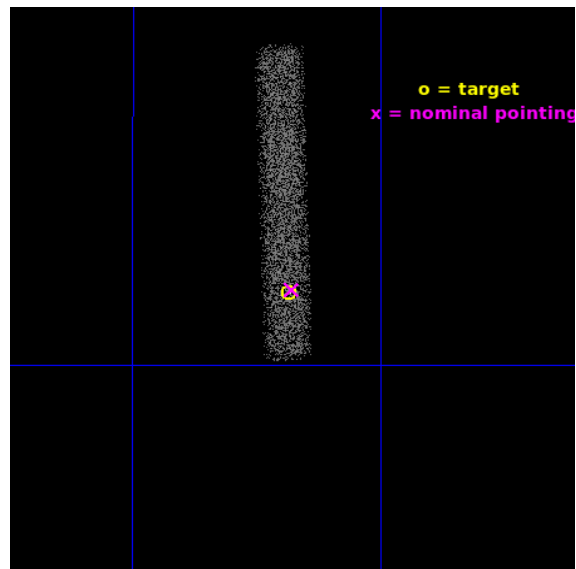
L2 Processing Date : Oct 24 2020

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1 Front

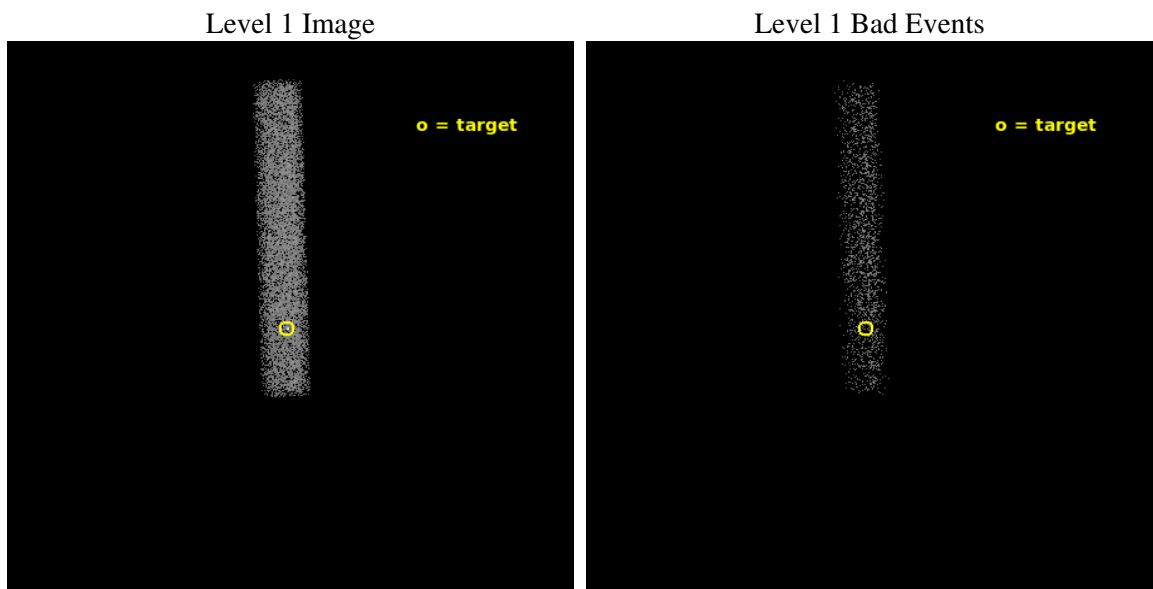
seq_num	201188	Sequence number
obs_id	20616	Observation id
title	Connecting mass accretion and ejection in pre-main sequence stars	
observer	Catherine Espaillat	Principal investigator
object	GM Aur	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	73.795833	Observer's specified target RA [deg]
dec_targ	30.366389	Observer's specified target Dec [deg]
ra_nom	73.794459324154	Nominal RA [deg]
dec_nom	30.367559773148	Nominal Dec [deg]
roll_nom	268.35909949148	Nominal Roll [deg]
revision	2	Processing version of data
ontime	11598.799308538	Sum of GTIs [s]
livetime	10519.498738018	Livetime [s]
ontime7	11598.799308538	Sum of GTIs [s]
l2events	7430	Number of level 2 events



2 OBI

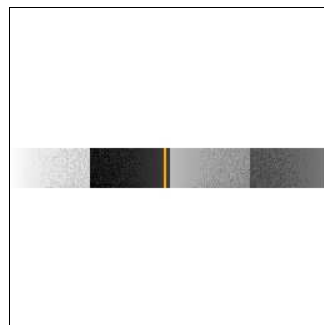
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11530.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	11598.799308538	Sum of GTIs [s]
caldsver	4.9.3	 	ontime7	11598.799308538	Sum of GTIs [s]
date	2020-10-24T07:57:15	Date and time of file creation	l1events	15588	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

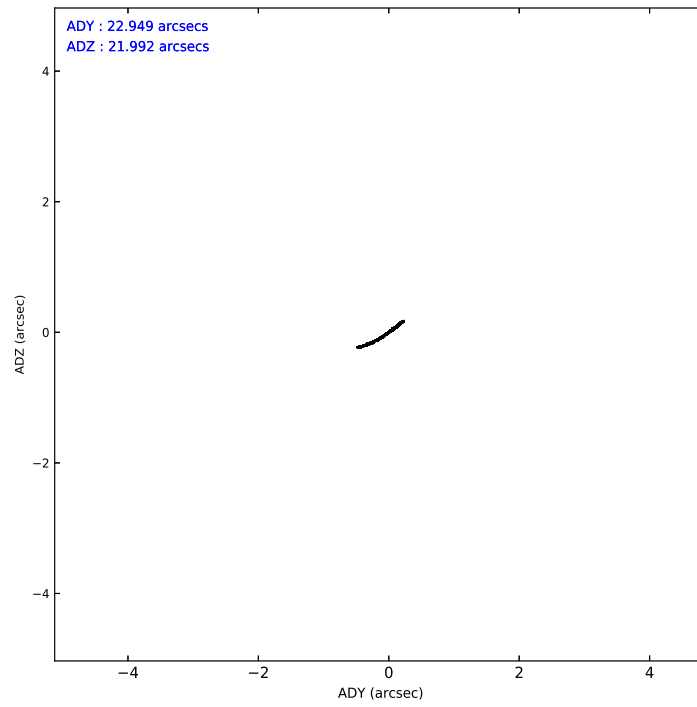
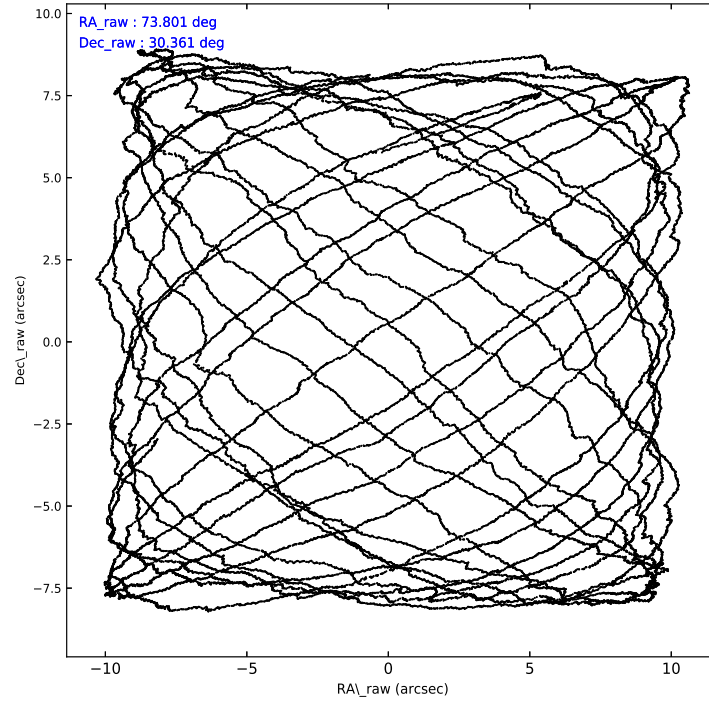
	ccd 7
level 1 events	15588
rejected events	7860
rejected %	50%

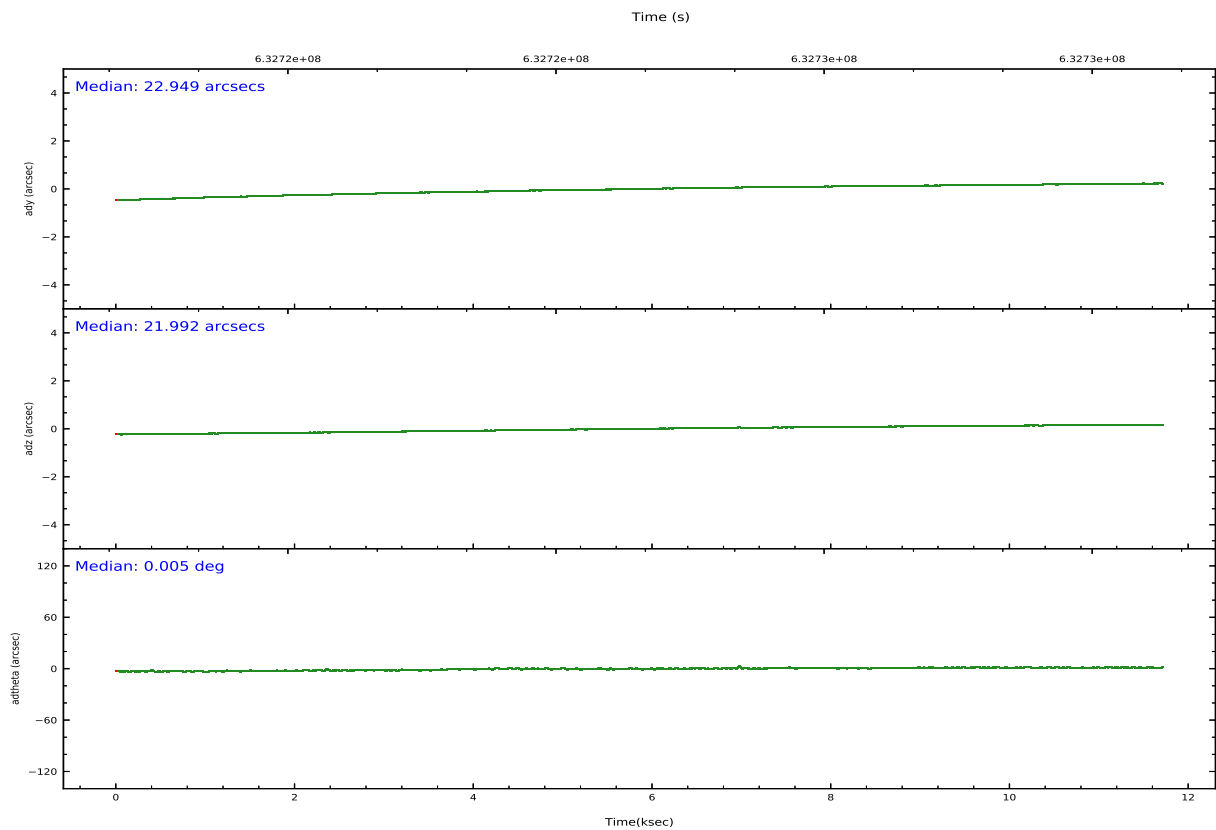
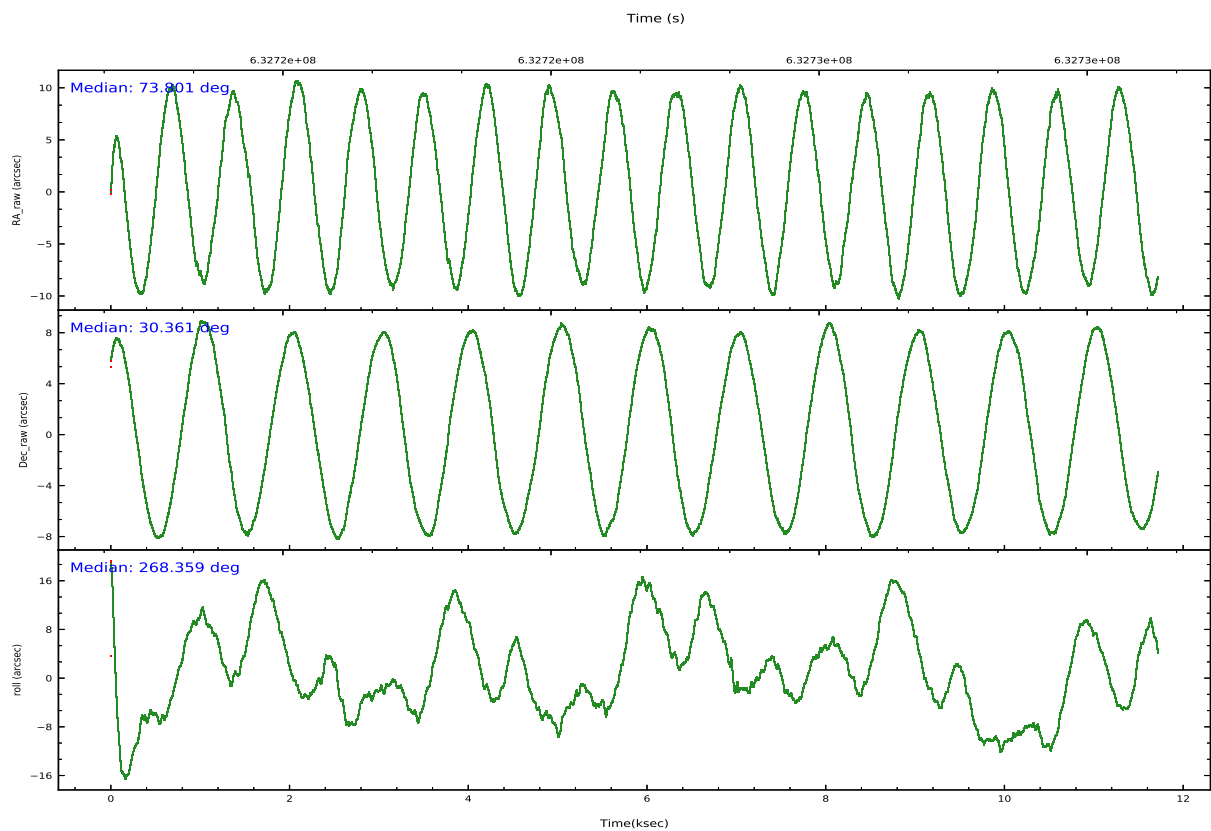
	ccd 7
grade 0 events	838
	5%
grade 1 events	22
	0%
grade 2 events	1463
	9%
grade 3 events	1057
	6%
grade 4 events	988
	6%
grade 5 events	1474
	9%
grade 6 events	3384
	21%
grade 7 events	6362
	40%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-7	ACIS-7	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	73.786113	73.794459324154	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	30.384794	30.367559773148	Subarray start row	449	449
[deg] Pointing Roll	268.215189	268.35909949148	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	632720263.184000	632719092.69423			
Observation start date	2018-01-19T03:36:34	2018-01-19T03:18:12			
[s] Observation end time (MET)	632731793.184000	632732590.92003			
Observation end date	2018-01-19T06:48:44	2018-01-19T07:03:10			
Read mode	TIMED	TIMED			

2.3 Aspect



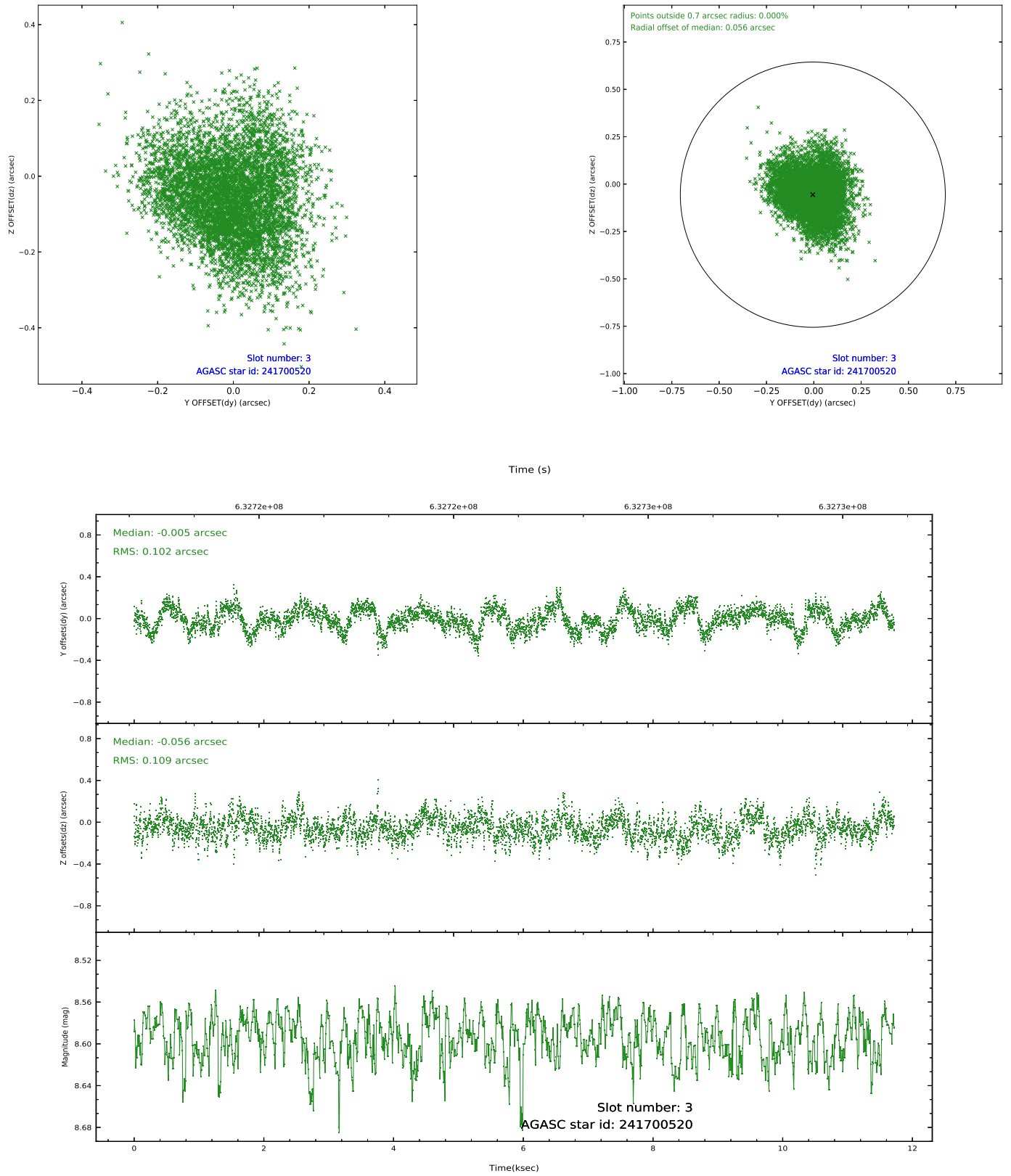


Slot Statistics

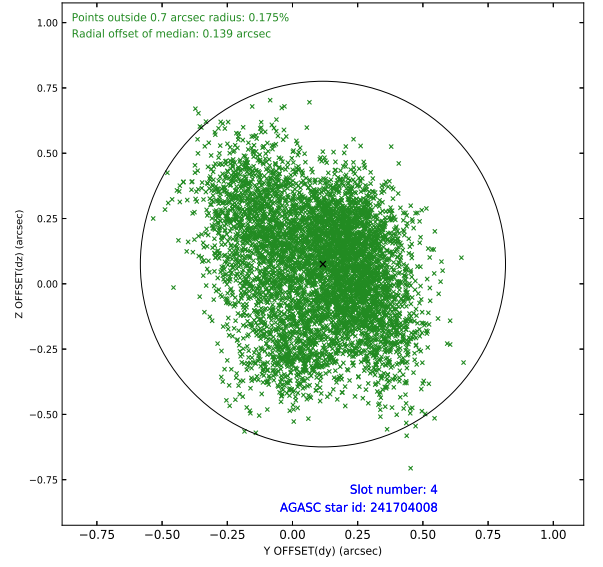
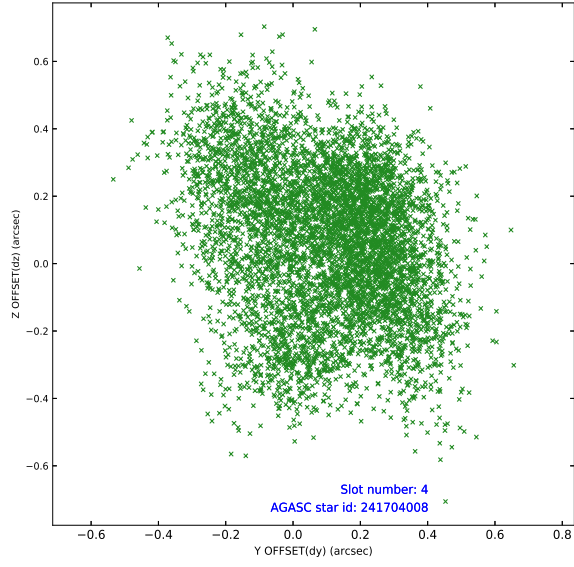
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.08	2858	1.000	0.178	-0.122	0.009	0.016	0.000000	0.000000	-776.19	-1743
1	FID		ACIS-S-4	7.19	2858	1.000	0.086	-0.053	0.010	0.017	0.000000	0.000000	2137.09	164
2	FID		ACIS-S-5	7.19	2858	1.000	-0.294	0.183	0.010	0.017	0.000000	0.000000	-1828.66	159
3	GUIDE	used	241700520	8.59	5713	1.000	-0.005	-0.056	0.159	0.255	74.420132	29.886487	1726.10	2034
4	GUIDE	used	241704008	9.82	5703	1.000	0.117	0.076	0.321	0.497	74.120895	29.994949	1369.39	1087
5	GUIDE	used	312870232	7.99	5718	1.000	0.094	-0.127	0.196	0.319	73.950966	30.337905	153.30	517
6	GUIDE	used	313006640	9.02	5716	1.000	-0.184	-0.004	0.187	0.292	74.535303	30.638765	-994.21	2291
7	GUIDE	used	312870352	8.75	5709	1.000	0.016	0.131	0.153	0.258	73.165410	31.038081	-2296.41	-1986

2.4 Star Slots

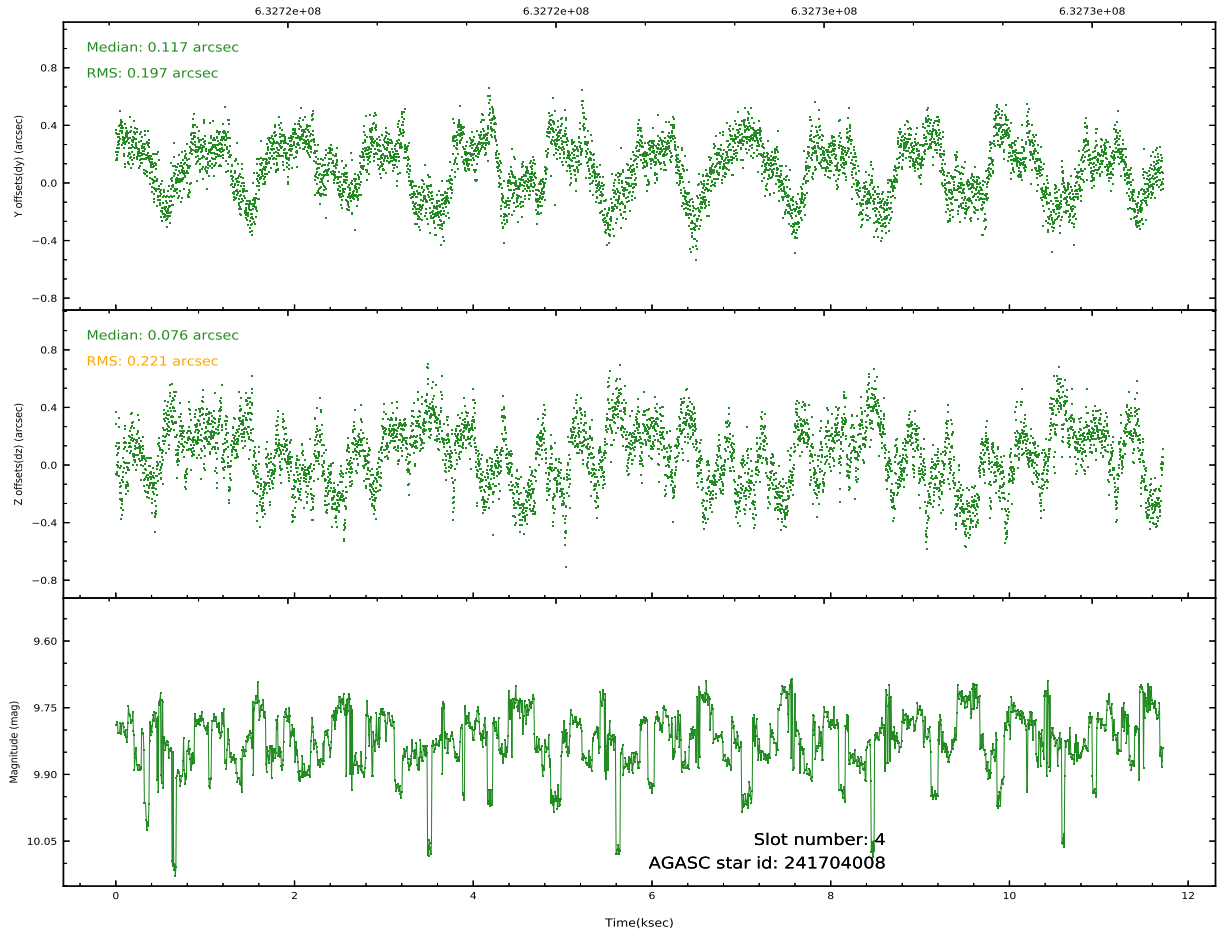
2.4.1 Slot 3



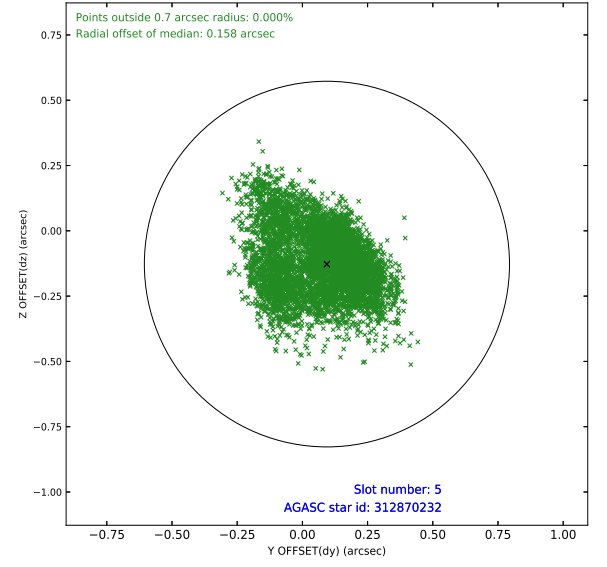
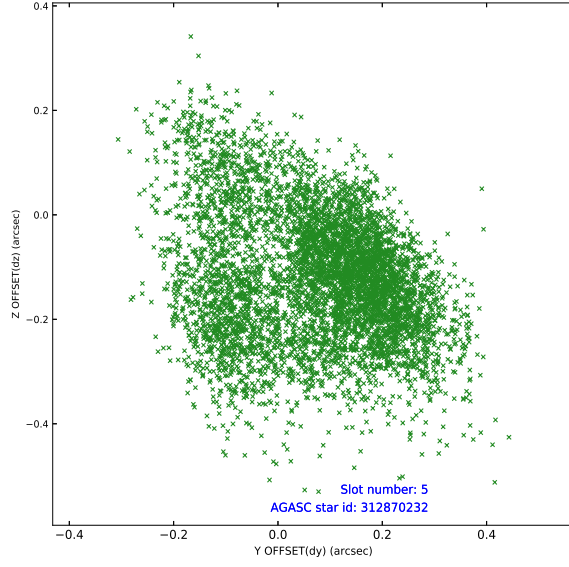
2.4.2 Slot 4



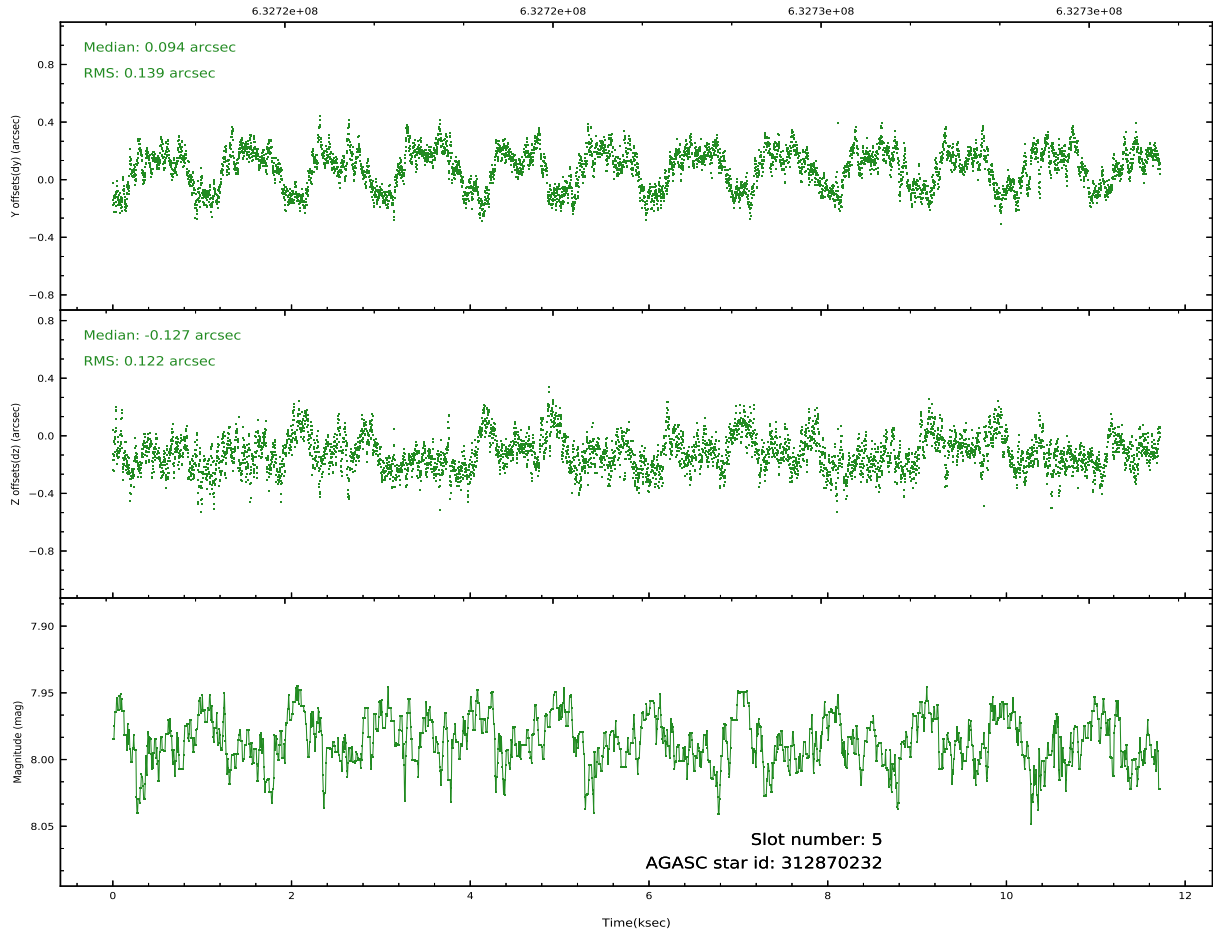
Time (s)



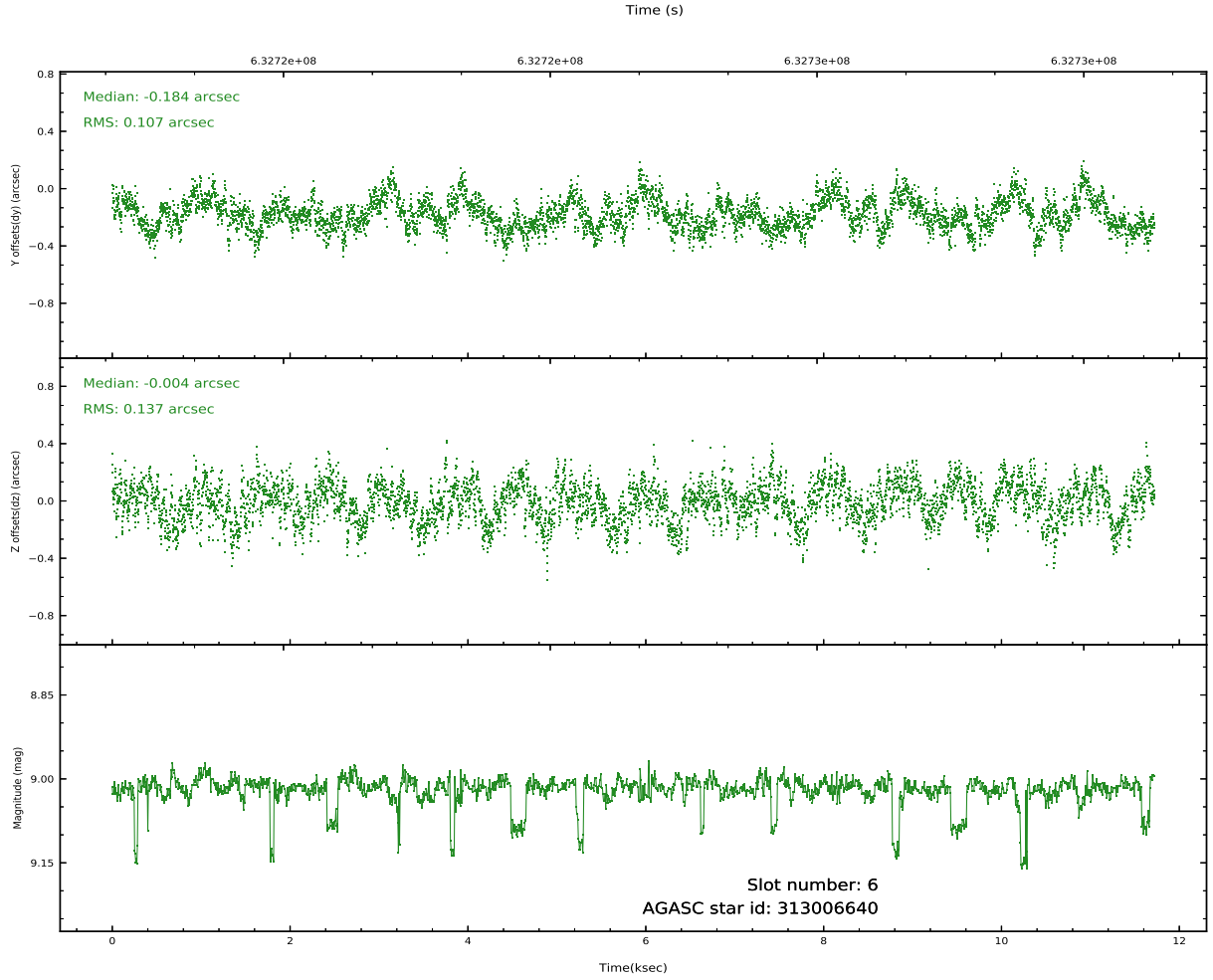
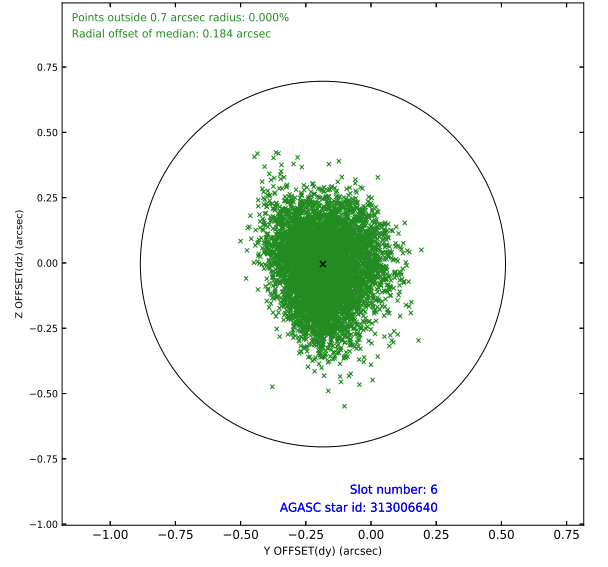
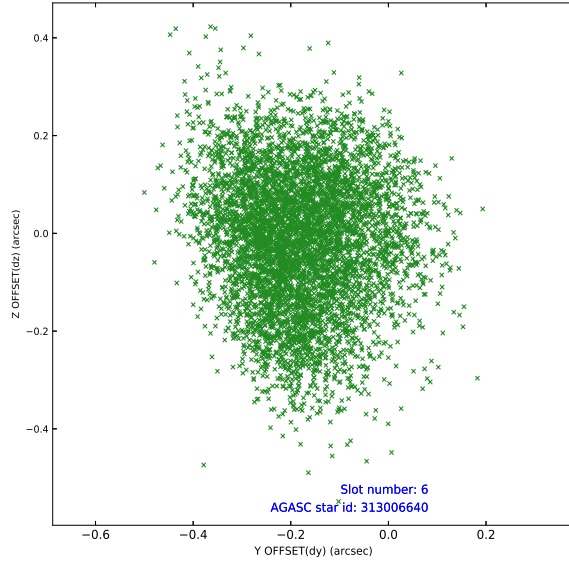
2.4.3 Slot 5



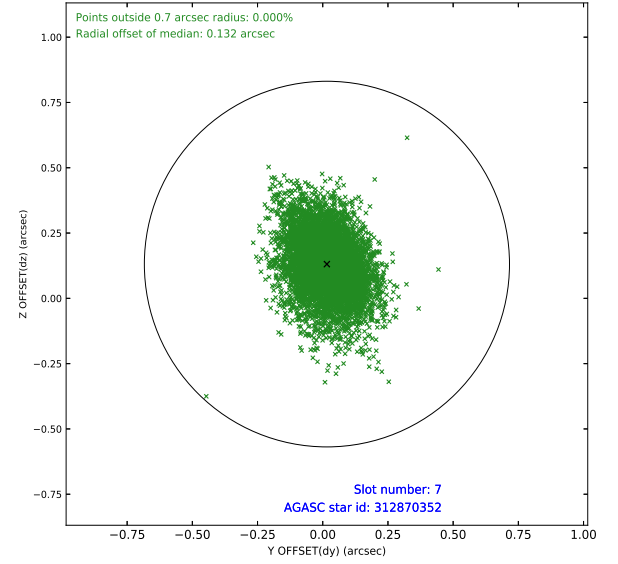
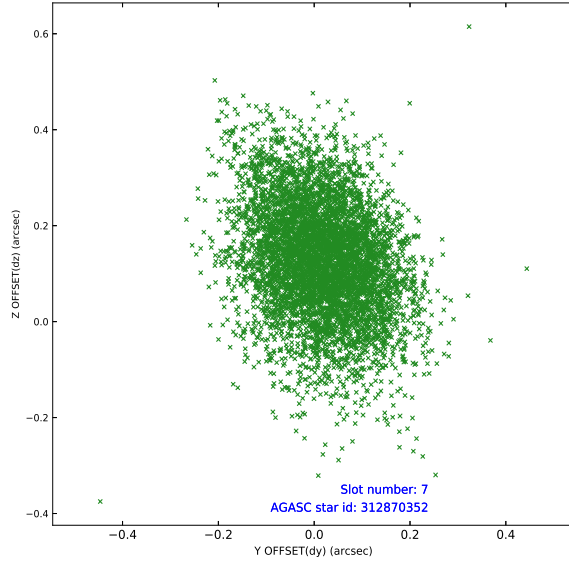
Time (s)



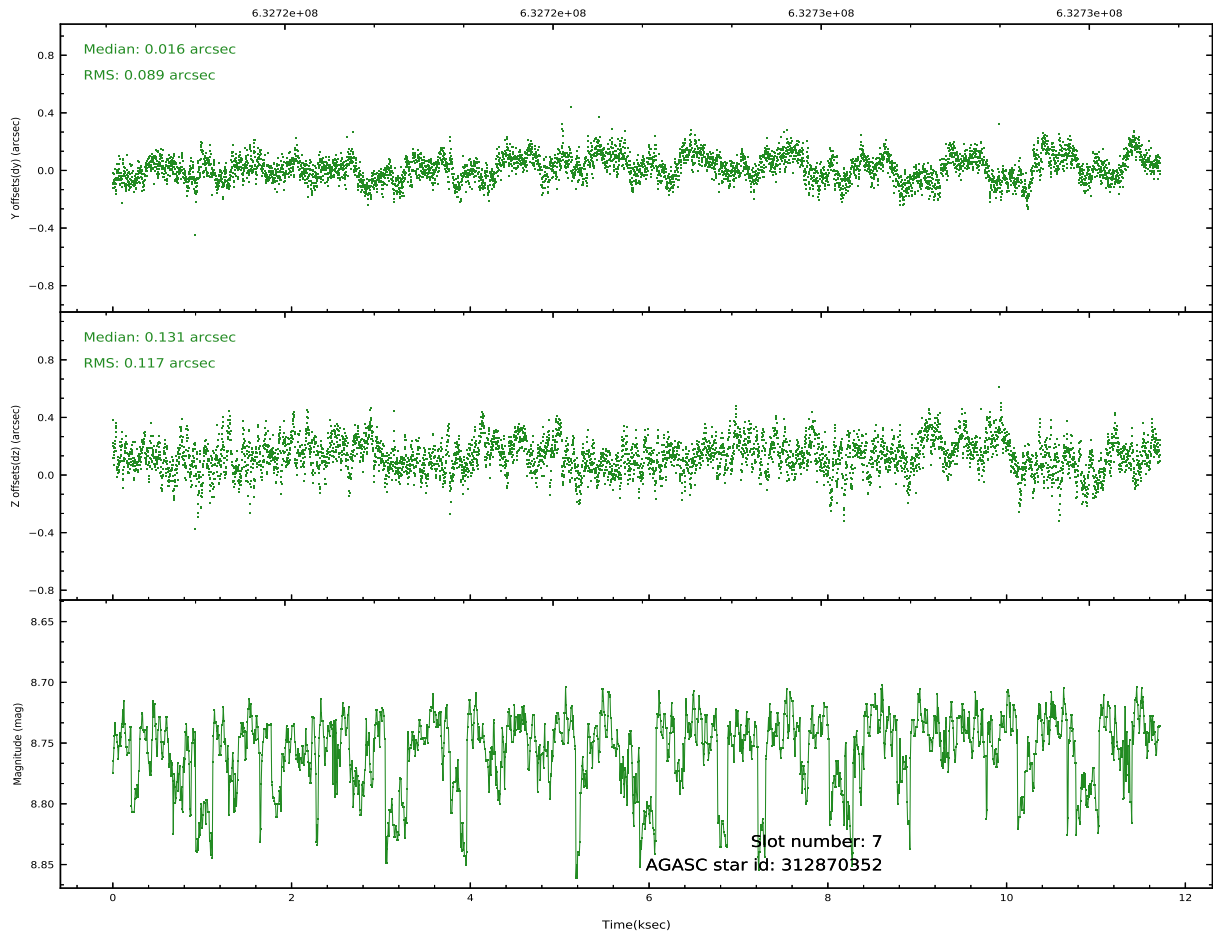
2.4.4 Slot 6



2.4.5 Slot 7

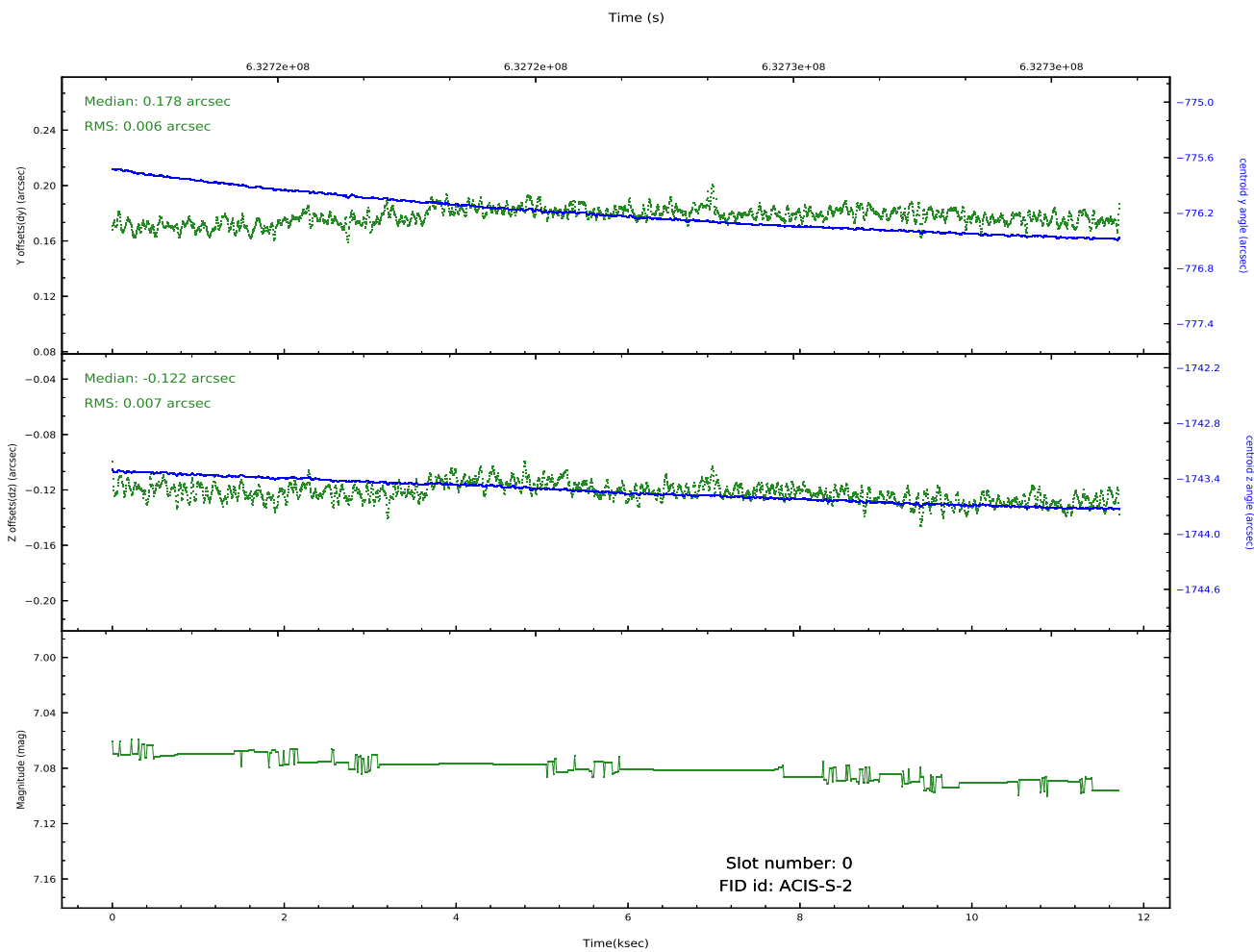
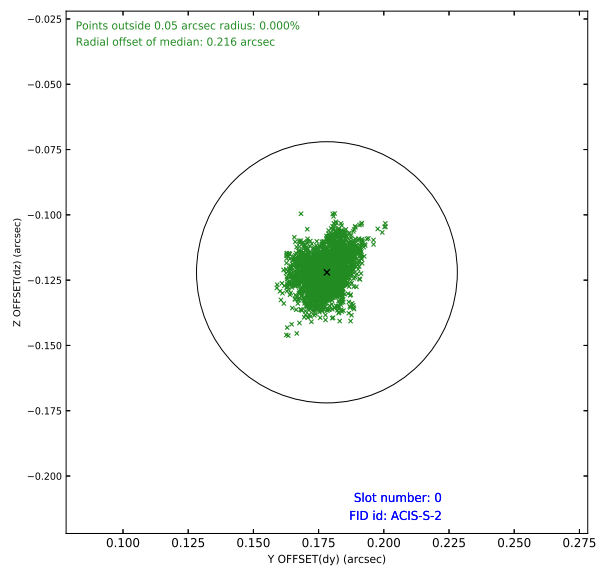
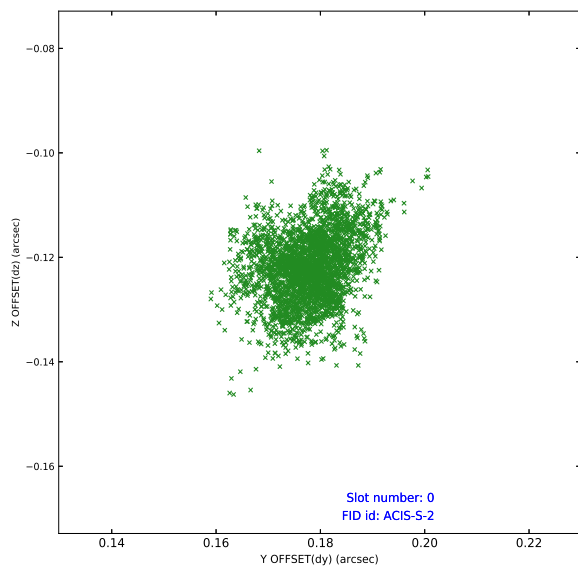


Time (s)

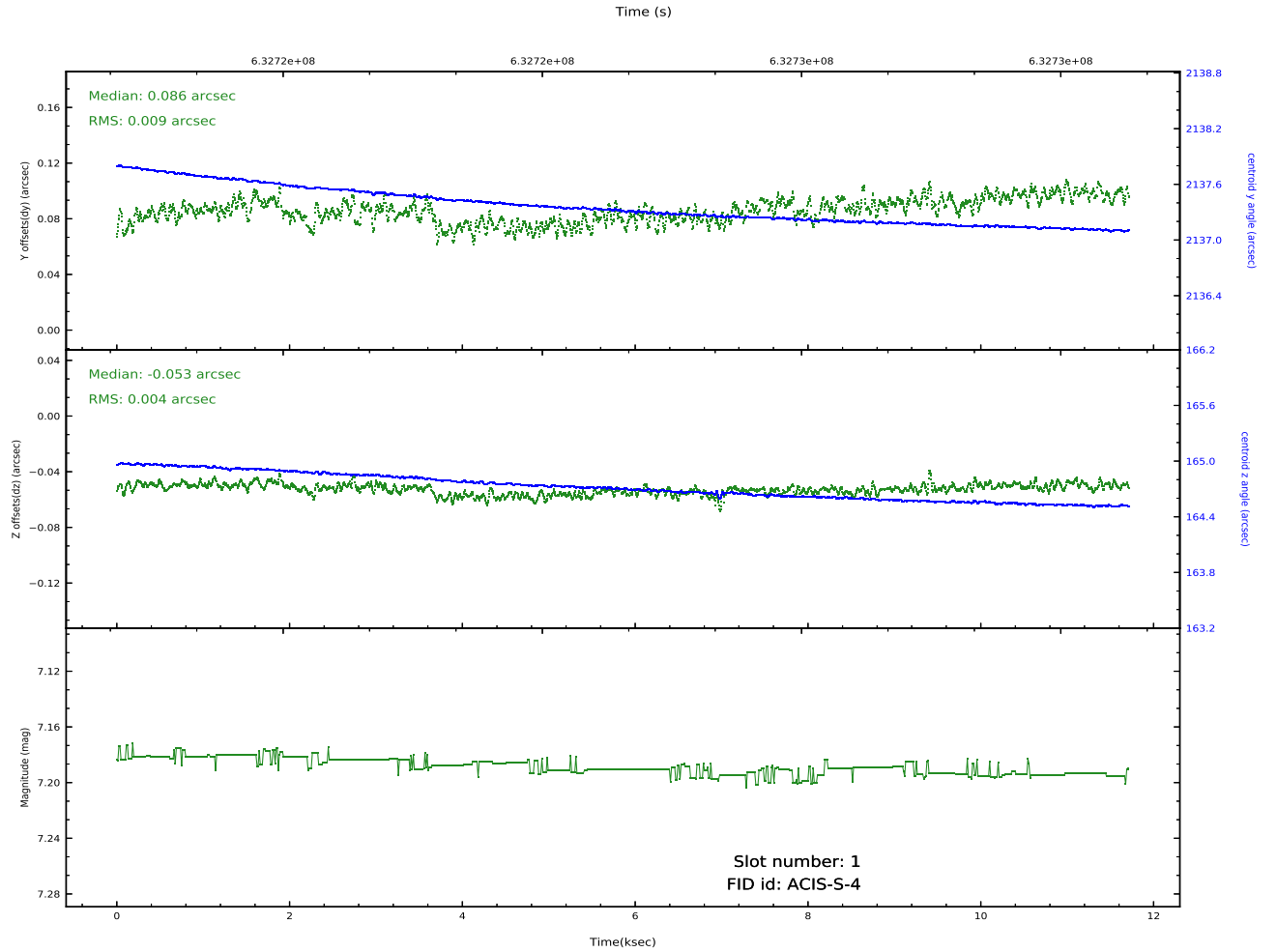
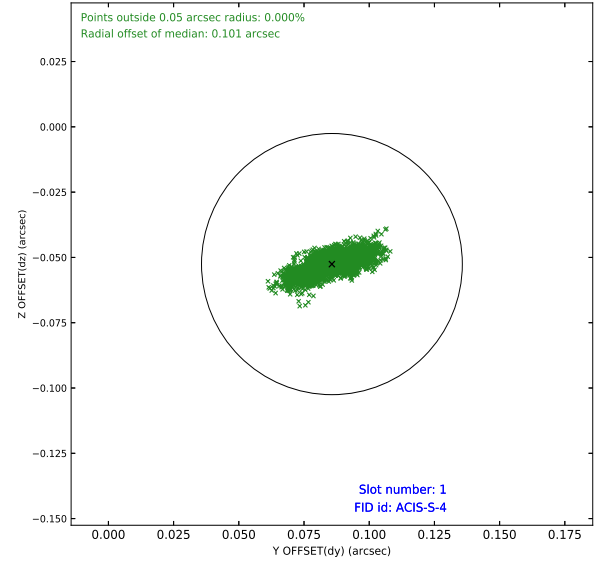
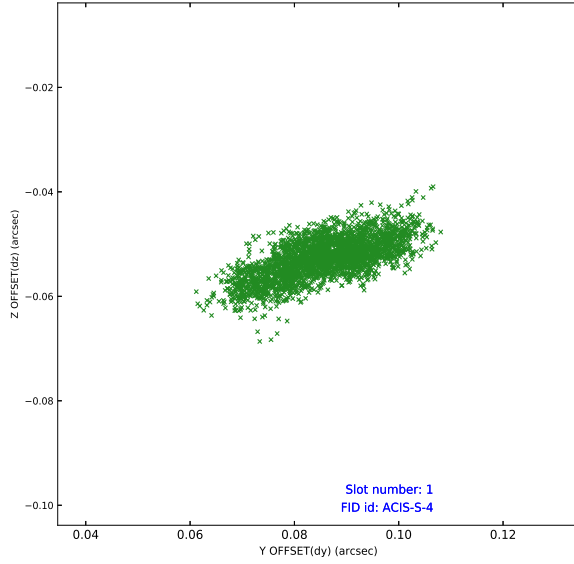


2.5 FID Slots

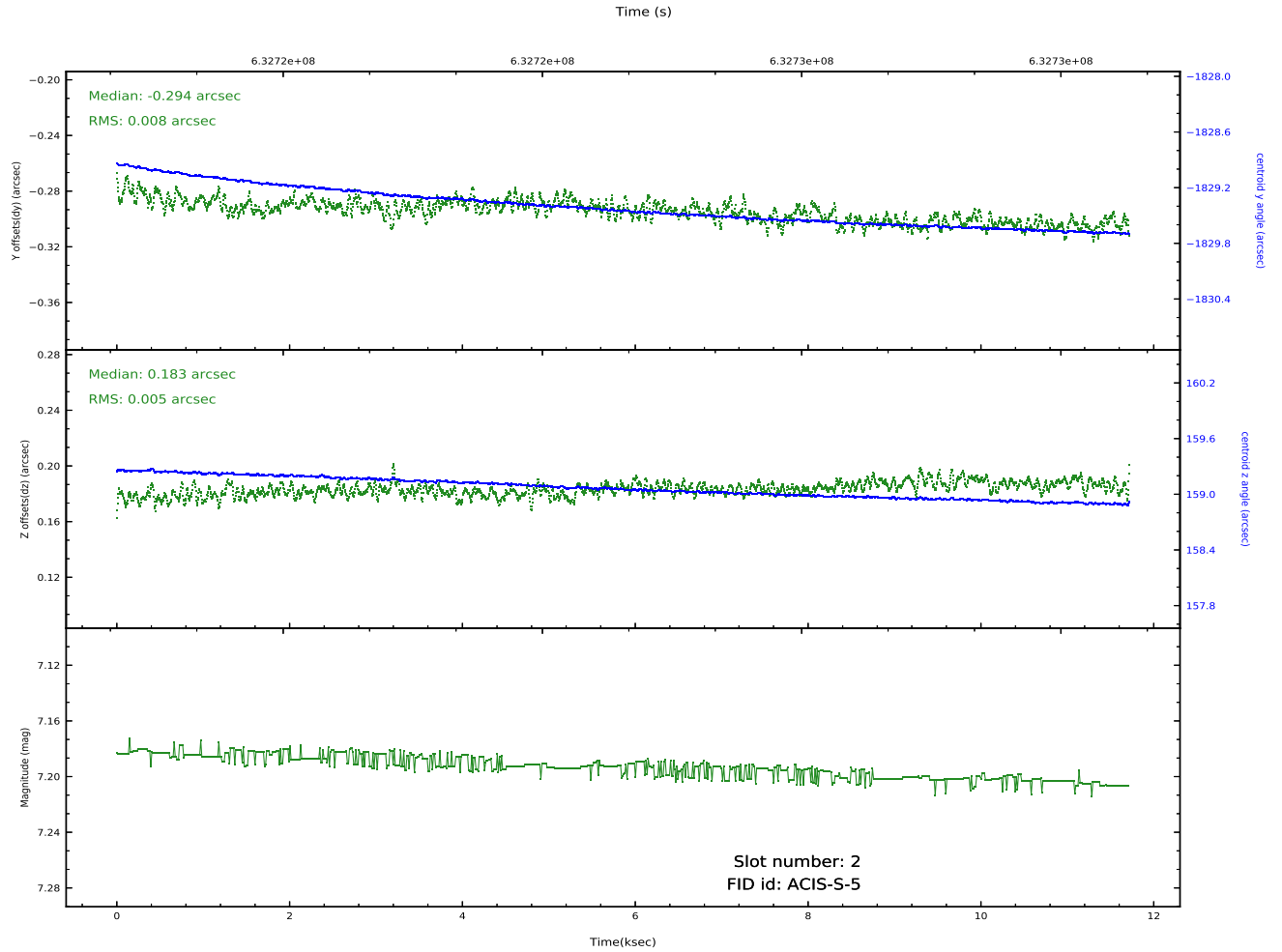
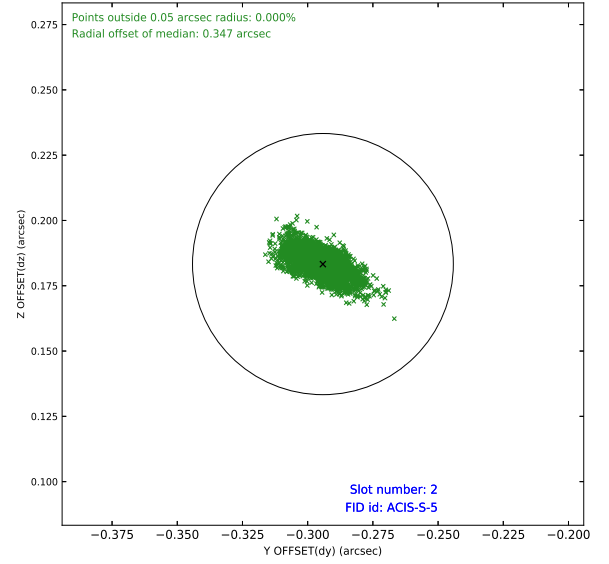
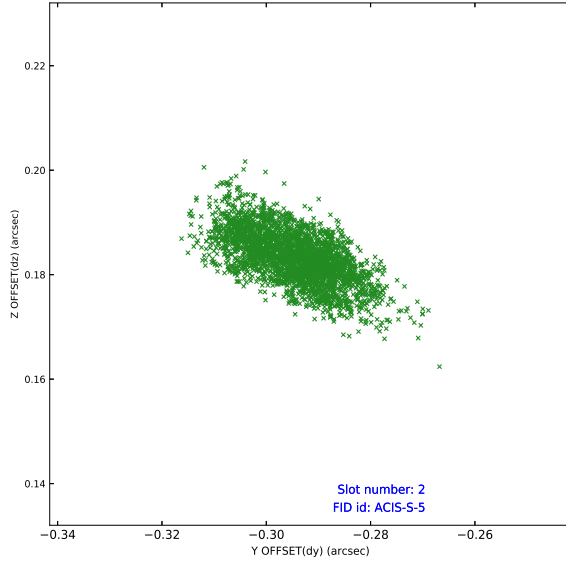
2.5.1 Slot 0



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)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.598799308538

A.2 Comments

Joint proposal with HST.