

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4968 - L2 Version 4
Chandra X-Ray Center

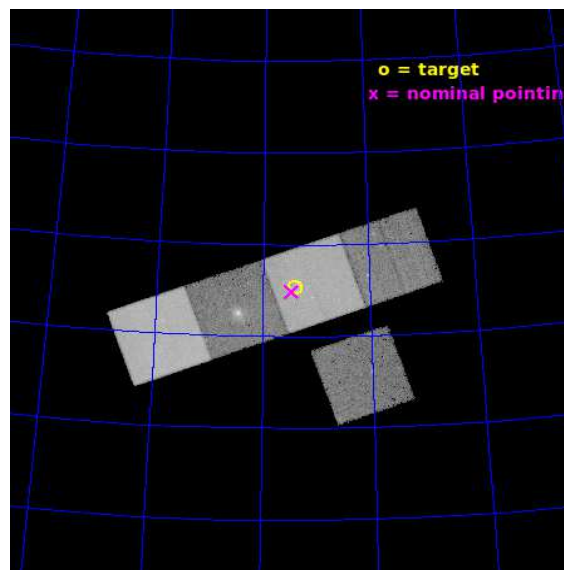
L2 Processing Date : Sep 26 2020

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1 Front

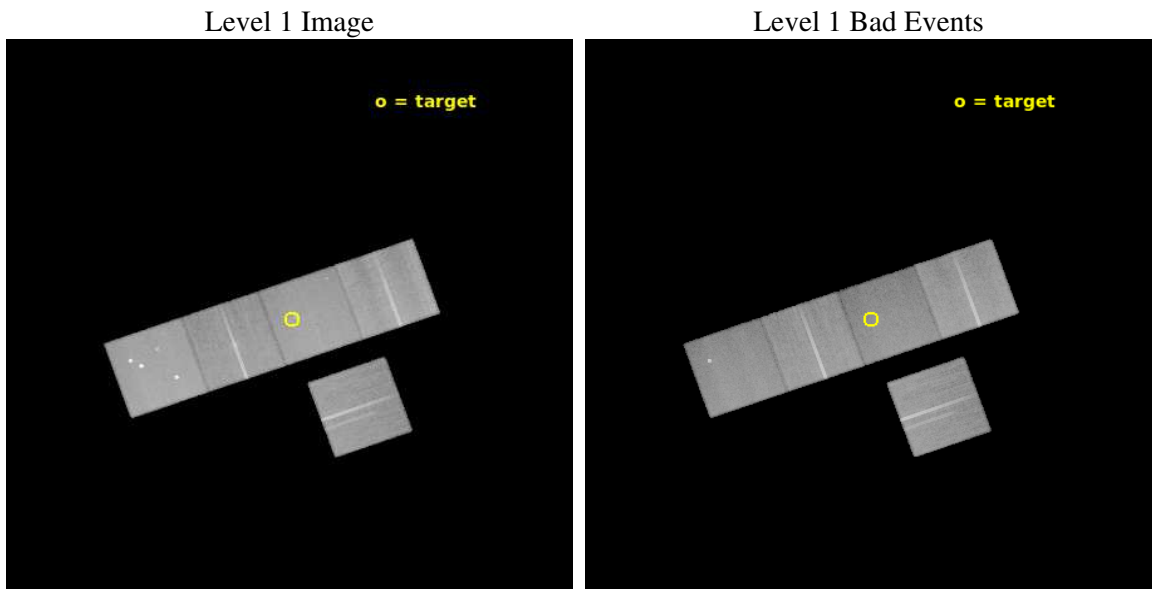
seq_num	800414	Sequence number
obs_id	4968	Observation id
title	Morphological evolution in dense environments: Testing ram pressure stripping in galaxy groups	Proposal title
observer	Dr Jesper Rasmussen	Principal investigator
object	NGC 2276	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	111.75	Observer's specified target RA [deg]
dec_targ	85.755556	Observer's specified target Dec [deg]
ra_nom	111.82144596458	Nominal RA [deg]
dec_nom	85.748299738773	Nominal Dec [deg]
roll_nom	340.47323585216	Nominal Roll [deg]
revision	4	Processing version of data
ontime	46171.399911195	Sum of GTIs [s]
livetime	45568.136580465	Livetime [s]
ontime3	46165.117990702	Sum of GTIs [s]
ontime5	46171.399911195	Sum of GTIs [s]
ontime6	46171.399911195	Sum of GTIs [s]
ontime7	46171.399911195	Sum of GTIs [s]
ontime8	46165.117930859	Sum of GTIs [s]
l2events	407273	Number of level 2 events



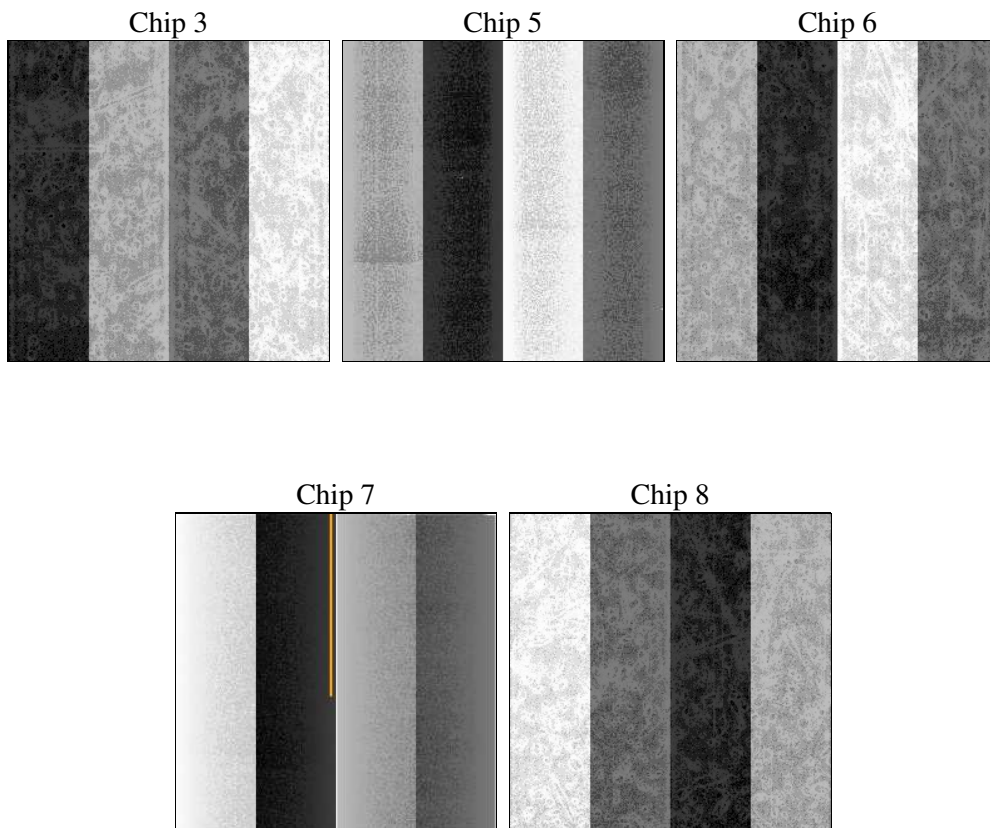
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	46000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	46171.399911195	Sum of GTIs [s]
caldbver	4.9.2	 	ontime3	46165.117990702	Sum of GTIs [s]
date	2020-09-26T20:30:34	Date and time of file creation	ontime5	46171.399911195	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	46171.399911195	Sum of GTIs [s]
			ontime7	46171.399911195	Sum of GTIs [s]
			ontime8	46165.117930859	Sum of GTIs [s]
			l1events	1663744	Number of level 1 events

2.1.4 Events

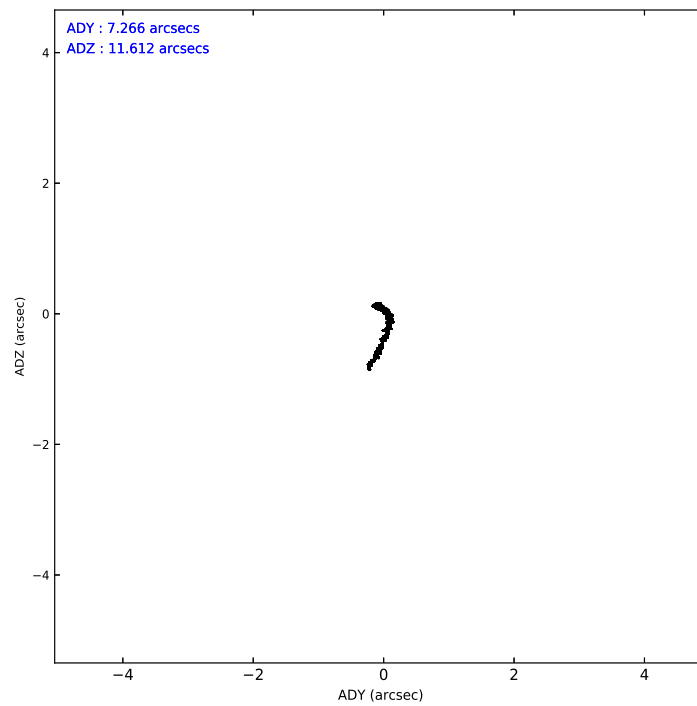
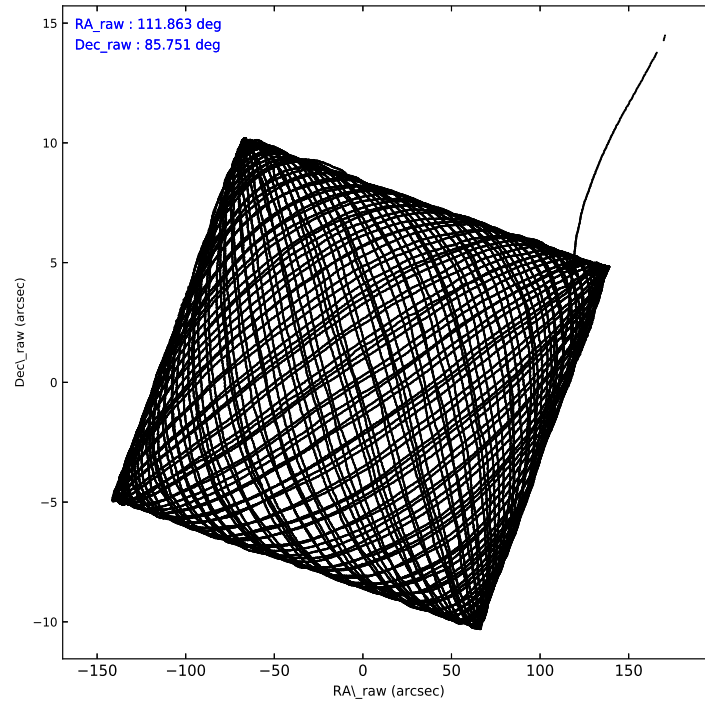
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	280519	408485	295750	320713	358277
rejected events	253600	199155	257767	173357	277024
rejected %	90%	48%	87%	54%	77%

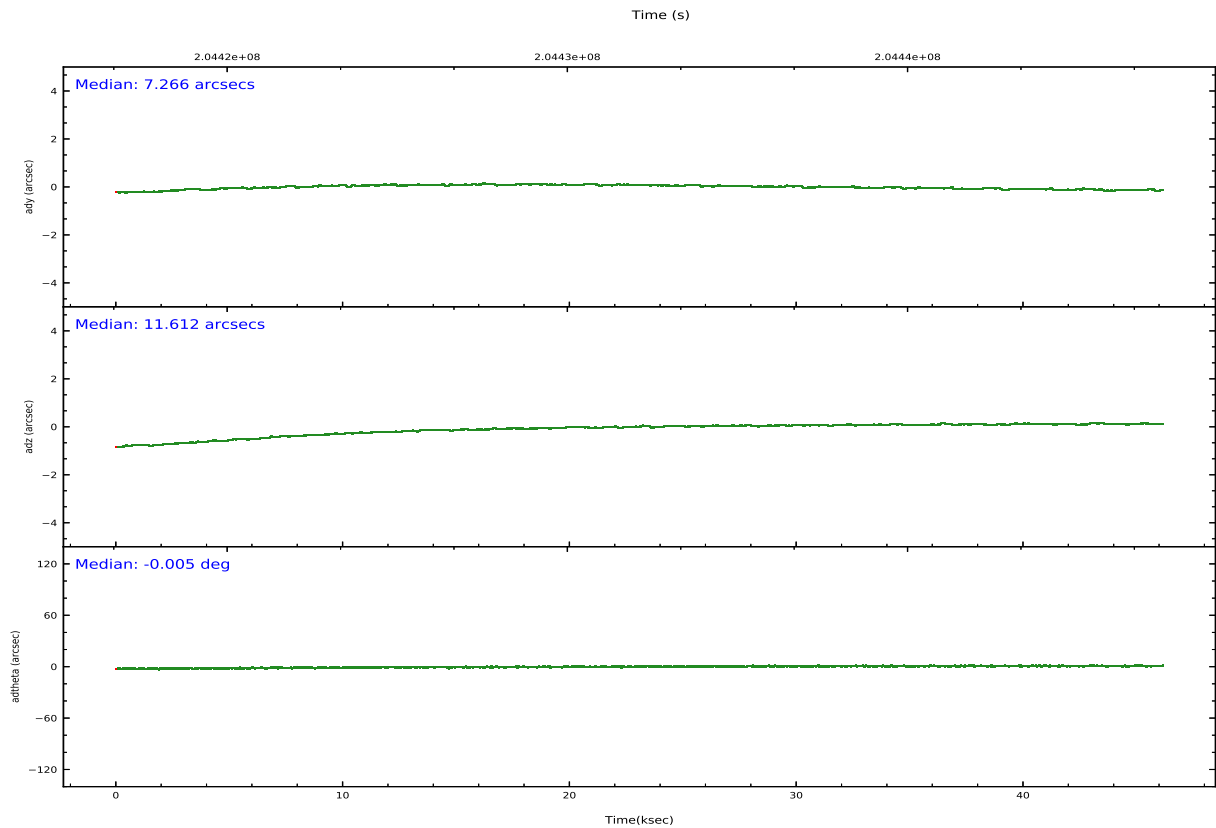
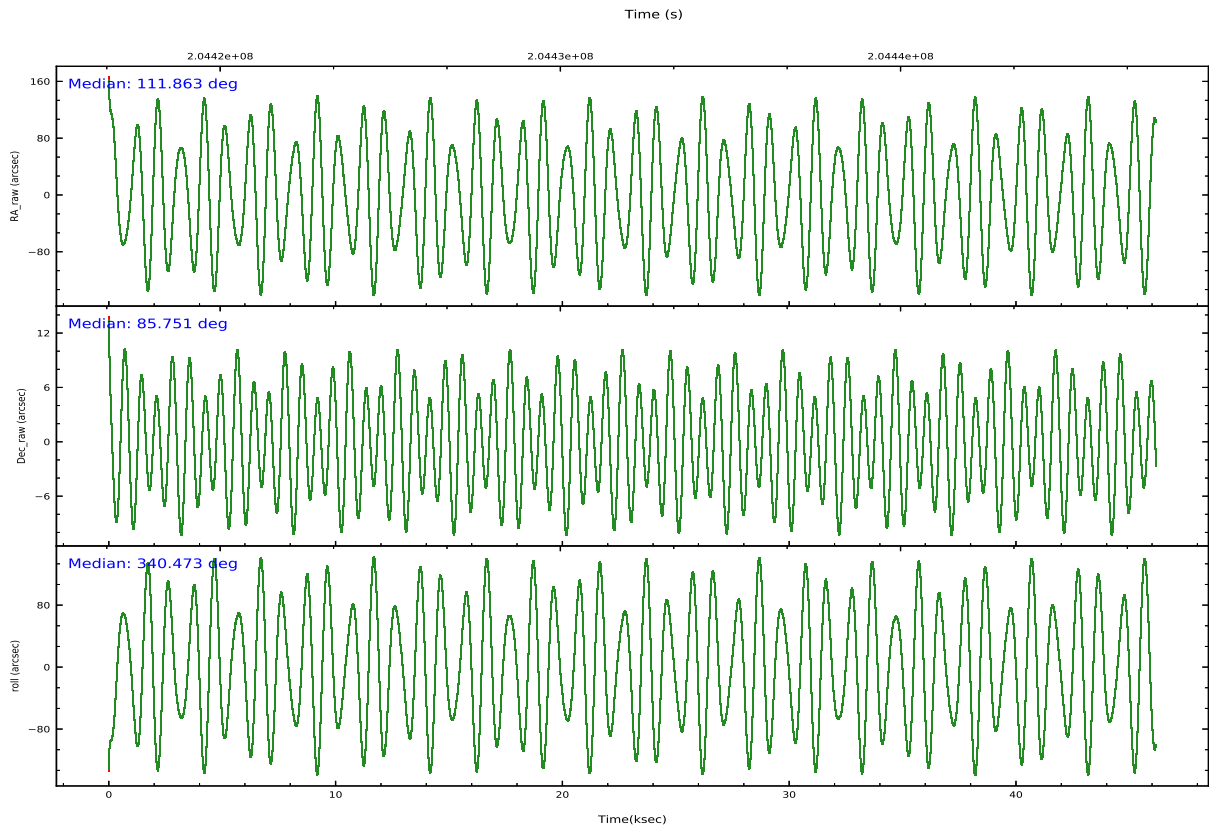
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	9956	32940	18080	14576	24974
	3%	8%	6%	4%	6%
grade 1 events	141	378	136	290	252
	0%	0%	0%	0%	0%
grade 2 events	5629	62378	6936	30242	17867
	2%	15%	2%	9%	4%
grade 3 events	3032	8767	3462	14259	8824
	1%	2%	1%	4%	2%
grade 4 events	3081	8205	3393	13927	8292
	1%	2%	1%	4%	2%
grade 5 events	10965	32466	11243	33815	16193
	3%	7%	3%	10%	4%
grade 6 events	5349	98128	6286	75086	21653
	1%	24%	2%	23%	6%
grade 7 events	242366	165223	246214	138518	260222
	86%	40%	83%	43%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-35678	ACIS-35678	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	111.503619	111.82144596458	Subarray requested	NONE	NONE
[deg] Pointing Dec	85.745362	85.748299738773	Alternating exposures requested	N	N
[deg] Pointing Roll	340.680741	340.47323585216	[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	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	204410269.184000	204409155.78656			
Observation start date	2004-06-23T20:36:45	2004-06-23T20:19:15			
[s] Observation end time (MET)	204456269.184000	204457109.90118			
Observation end date	2004-06-24T09:23:25	2004-06-24T09:38:29			
Read mode	TIMED	TIMED			

2.3 Aspect





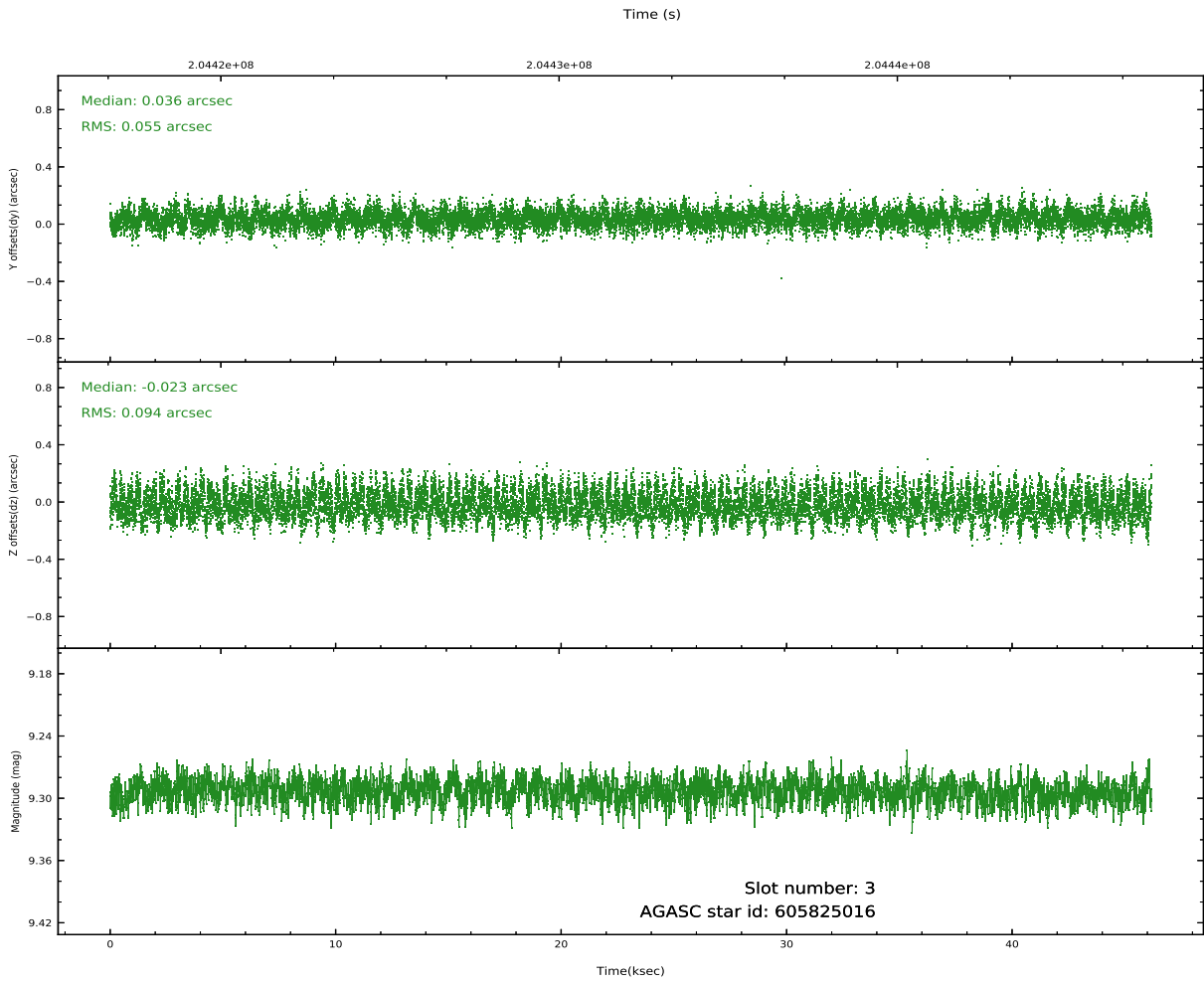
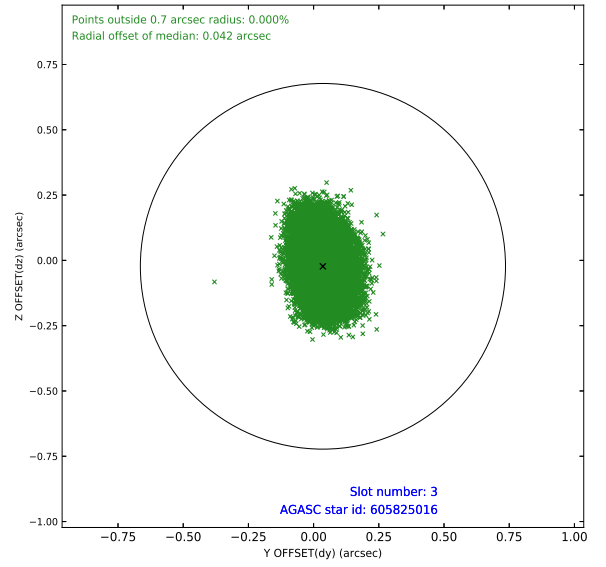
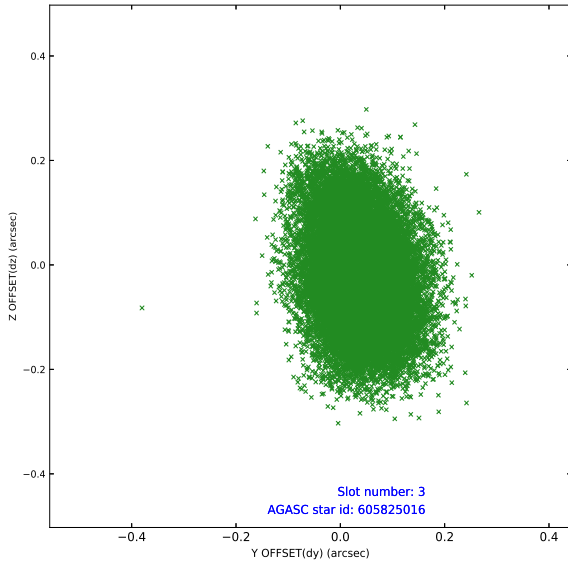
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	11264	1.000	-0.060	-0.050	0.009	0.018	0.000000	0.000000	-760.03	-1732
1	FID		ACIS-S-4	7.20	11264	1.000	0.120	0.043	0.008	0.015	0.000000	0.000000	2153.38	175
2	FID		ACIS-S-5	7.23	11263	1.000	-0.091	0.017	0.009	0.015	0.000000	0.000000	-1812.96	169
3	GUIDE	used	605825016	9.29	22515	1.000	0.036	-0.023	0.116	0.191	107.819407	85.193783	-402.09	-2207
4	GUIDE	used	606339456	9.76	22506	1.000	-0.028	0.034	0.111	0.180	105.567178	86.422040	-2085.33	1923
5	GUIDE	used	606339744	9.14	22523	1.000	0.021	0.011	0.100	0.156	112.256096	86.307705	-505.76	1969
6	GUIDE	used	605822160	9.45	22496	1.000	0.043	-0.036	0.104	0.172	104.915154	85.370083	-1391.50	-1803
7	GUIDE	used	605818544	9.72	22509	1.000	-0.076	0.006	0.114	0.189	109.515969	85.194537	87.55	-2059

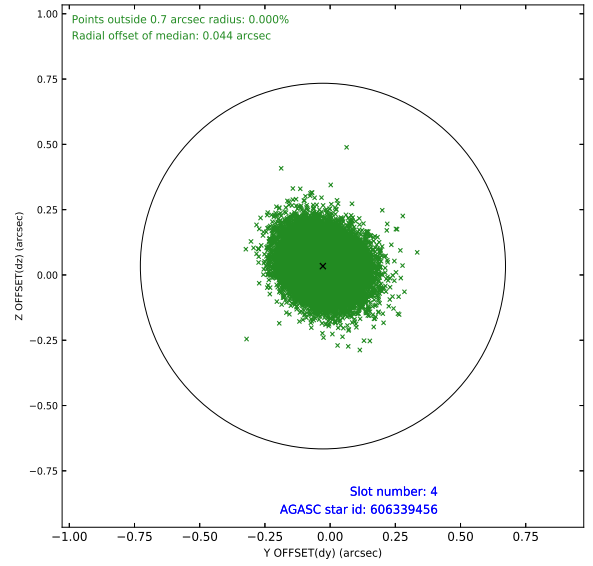
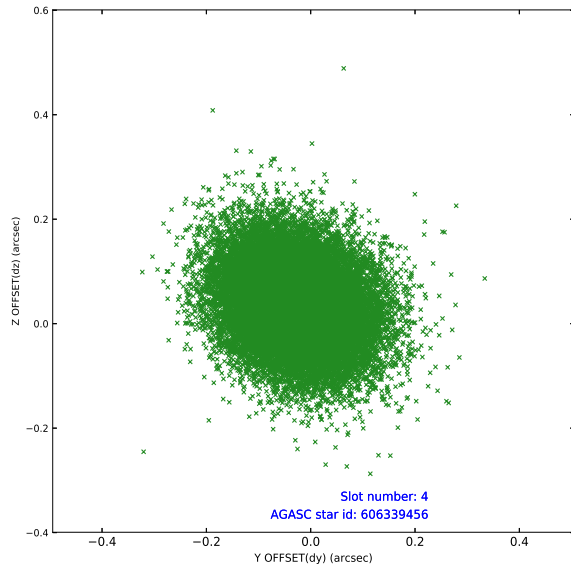
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2.4 Star Slots

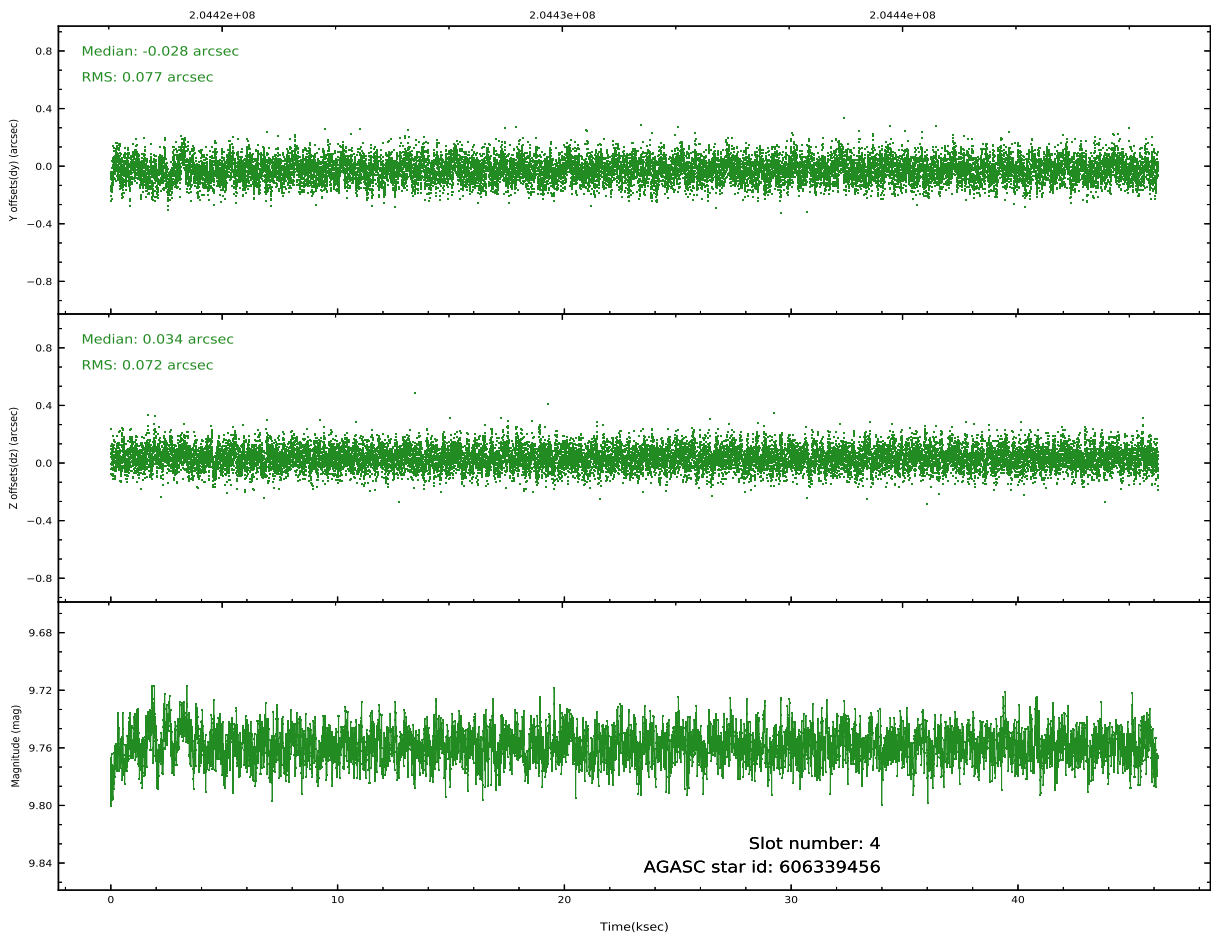
2.4.1 Slot 3



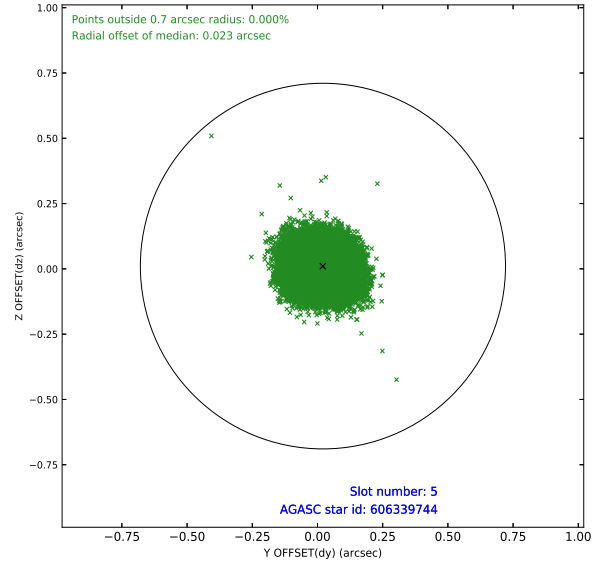
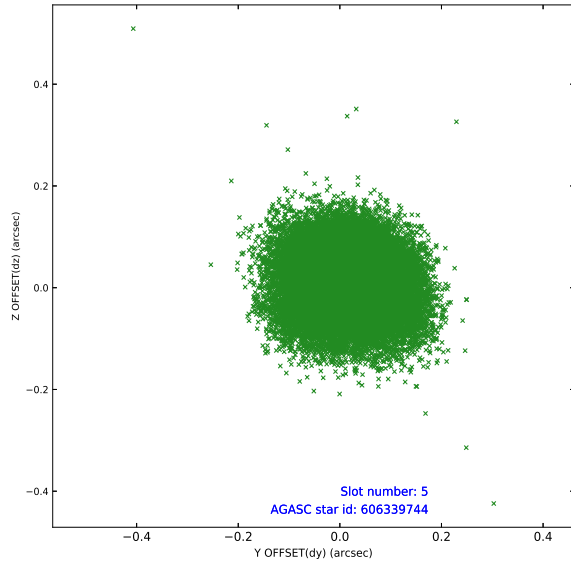
2.4.2 Slot 4



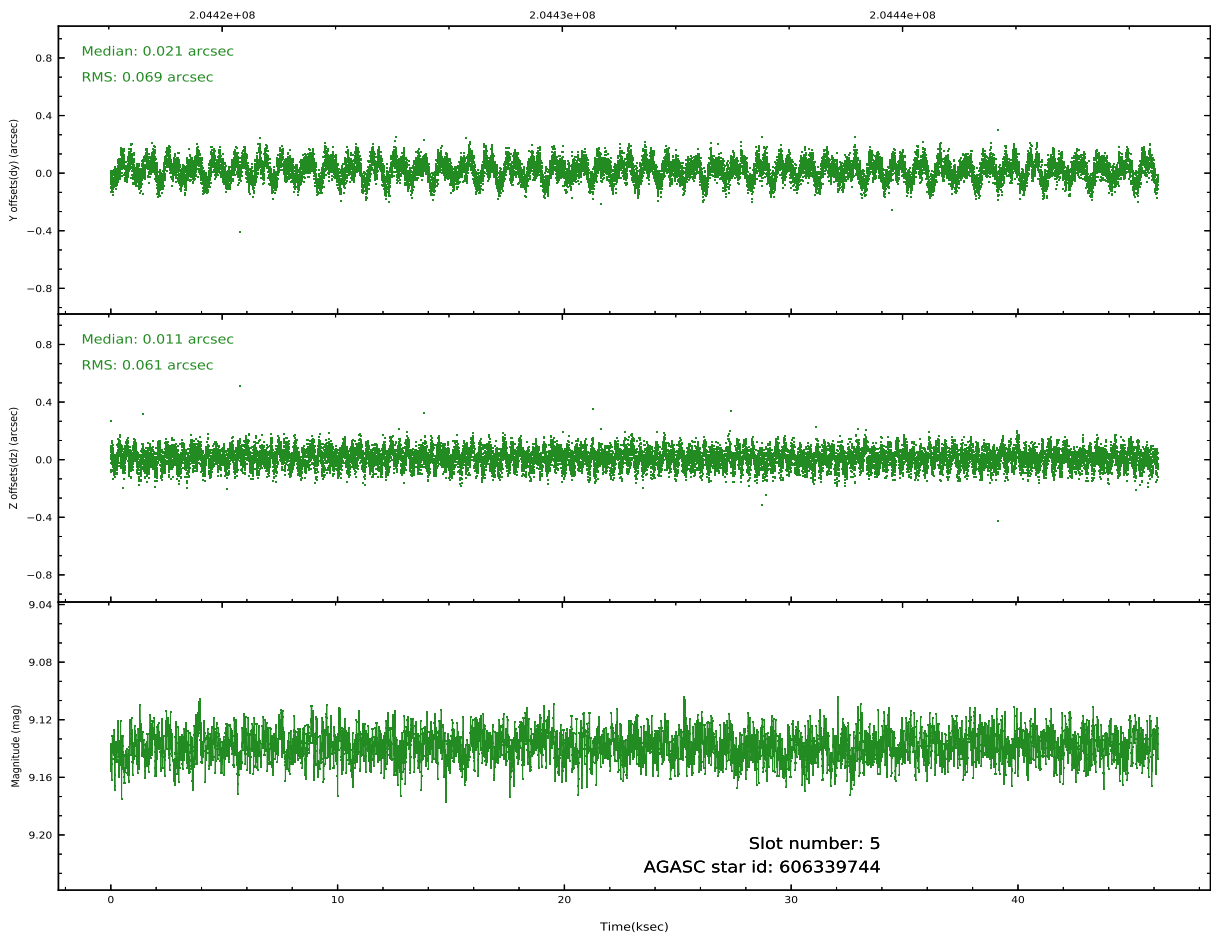
Time (s)



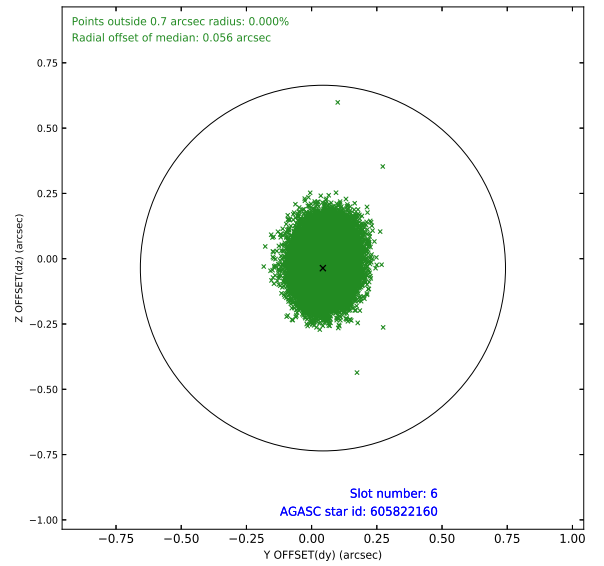
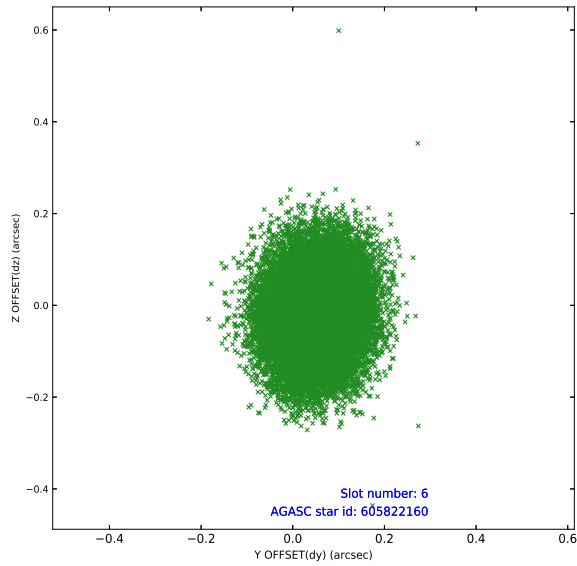
2.4.3 Slot 5



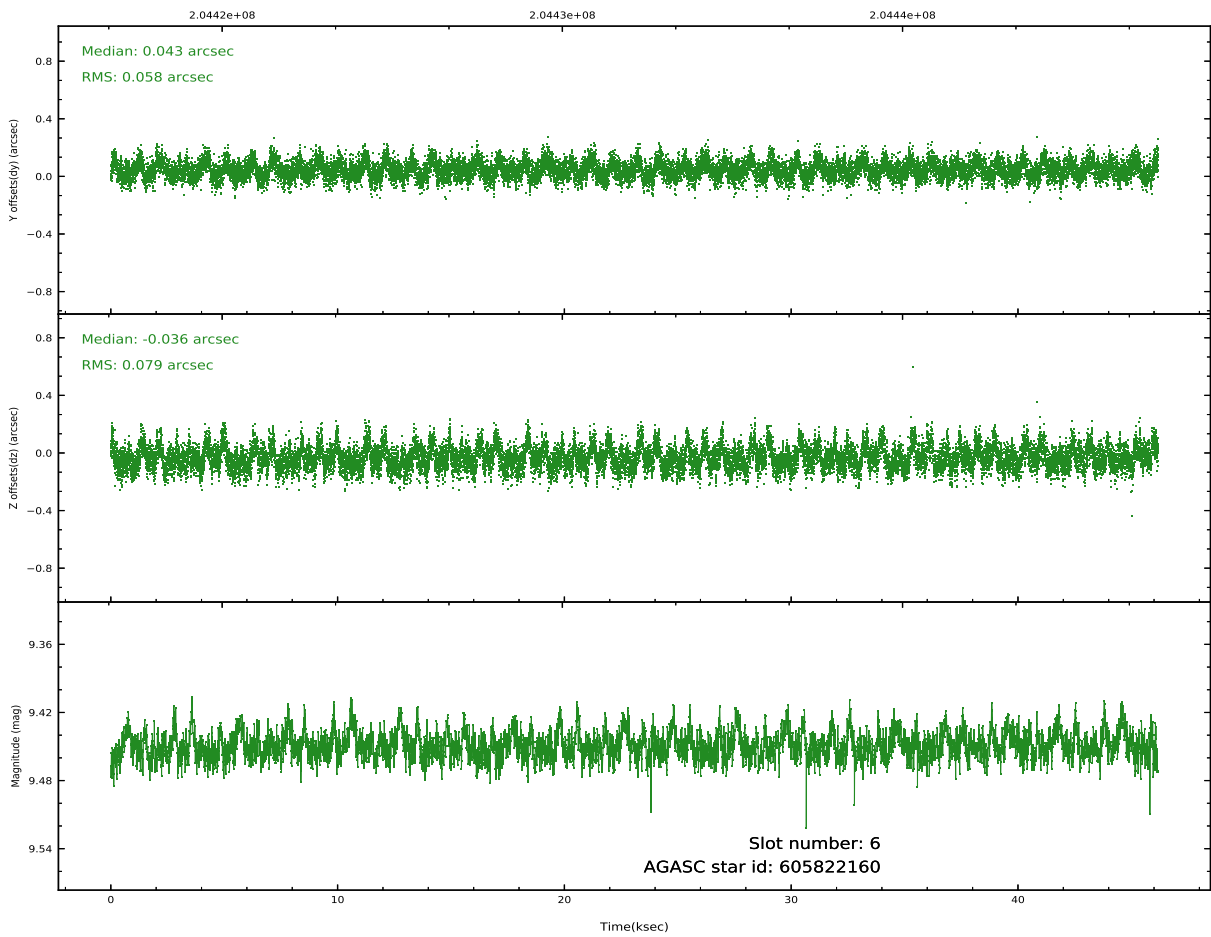
Time (s)



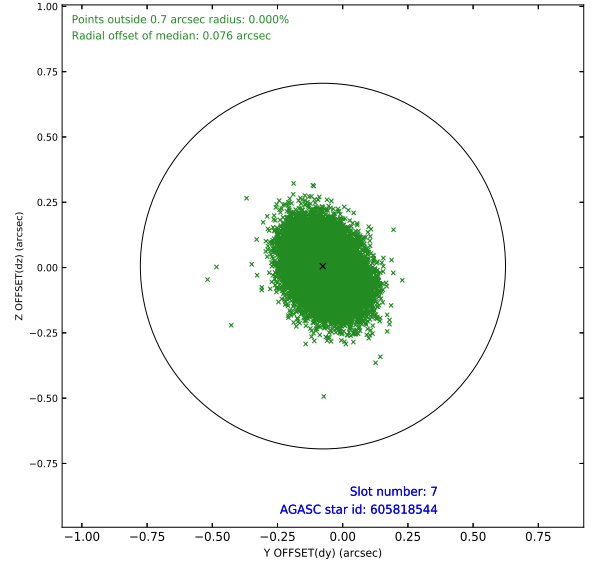
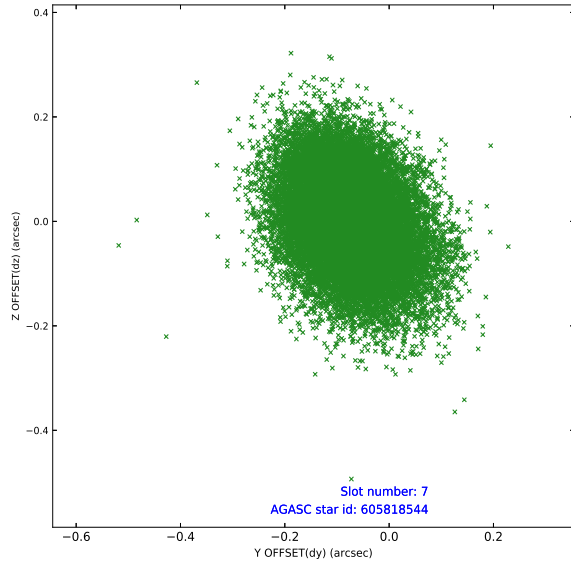
2.4.4 Slot 6



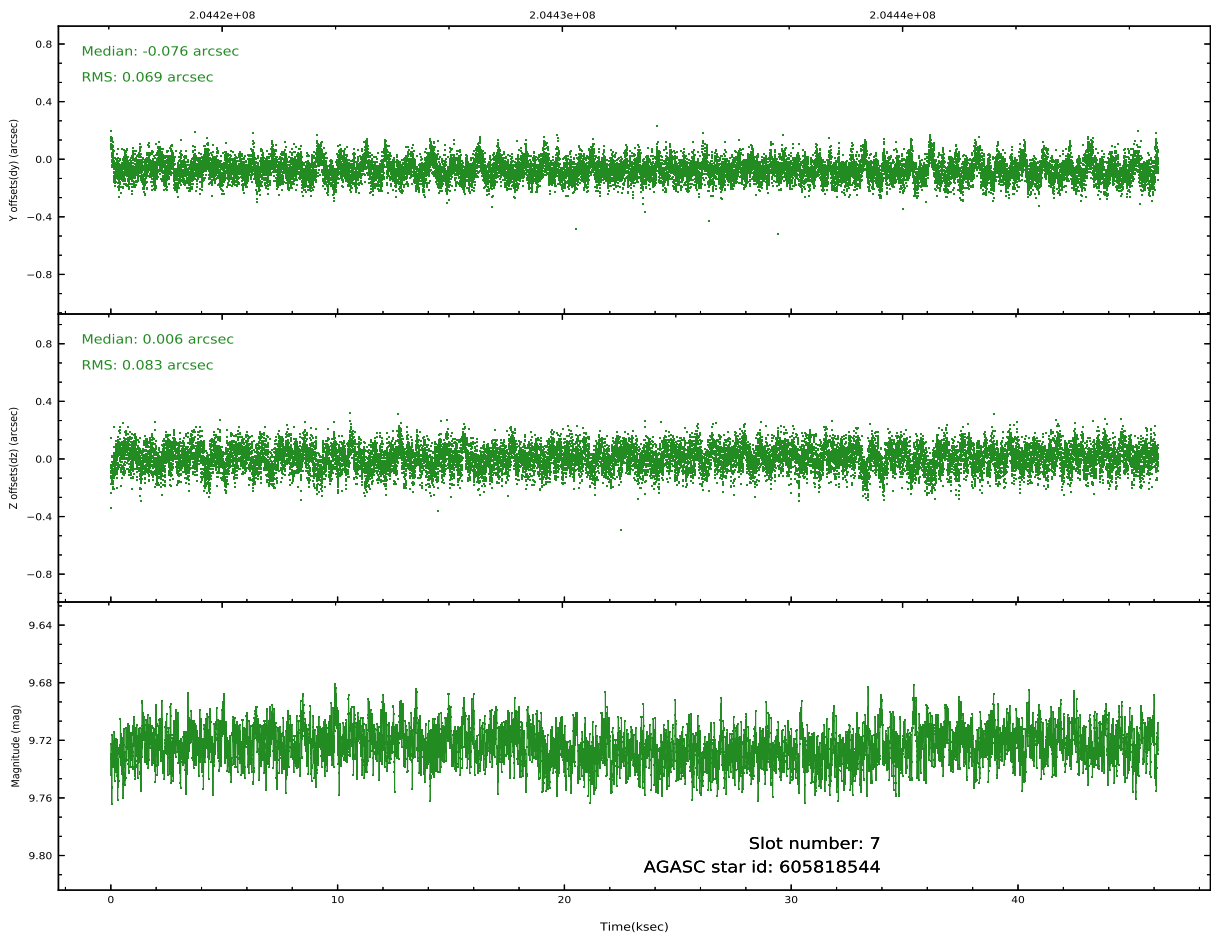
Time (s)



2.4.5 Slot 7

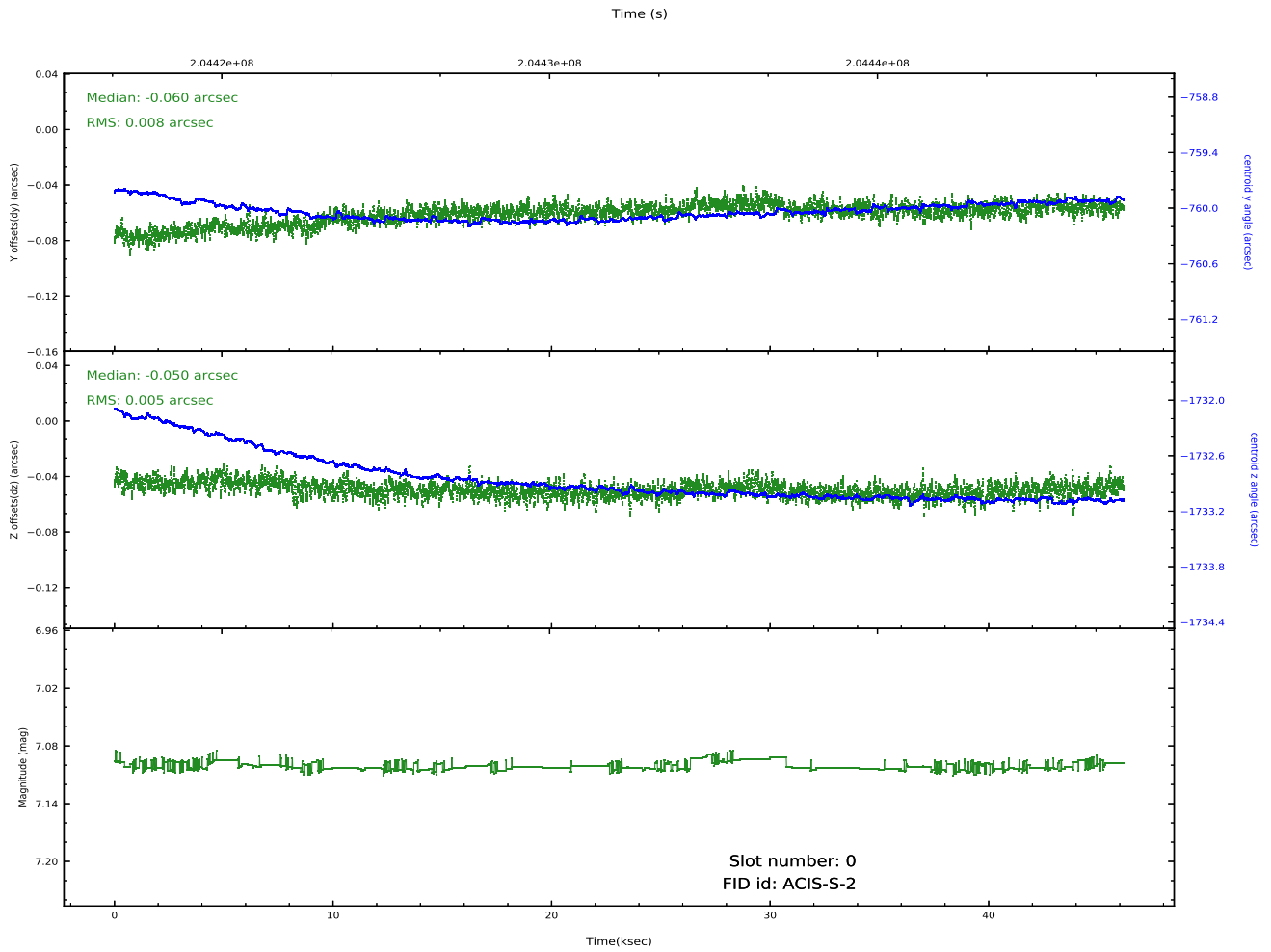
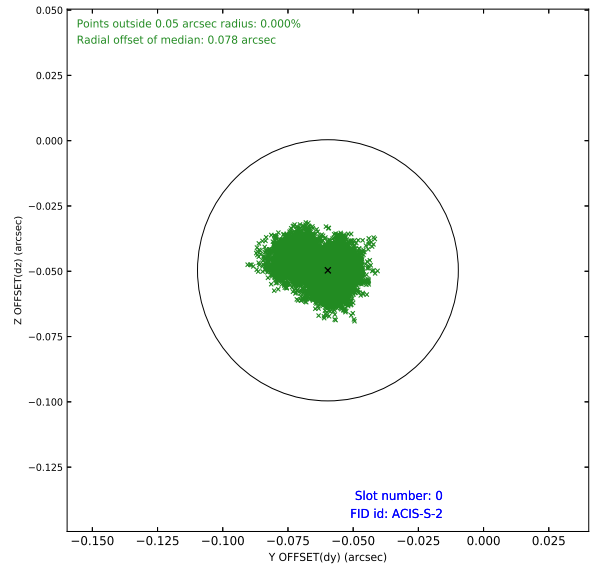
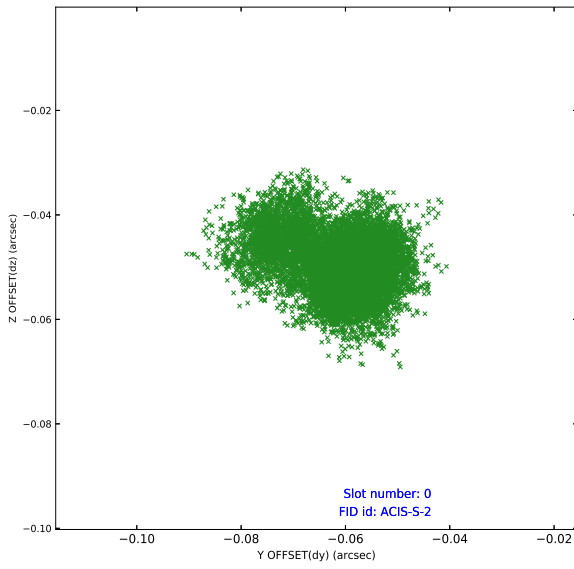


Time (s)

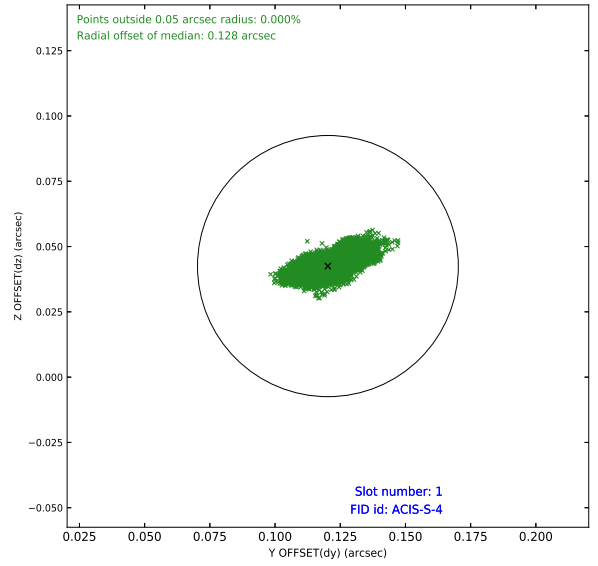
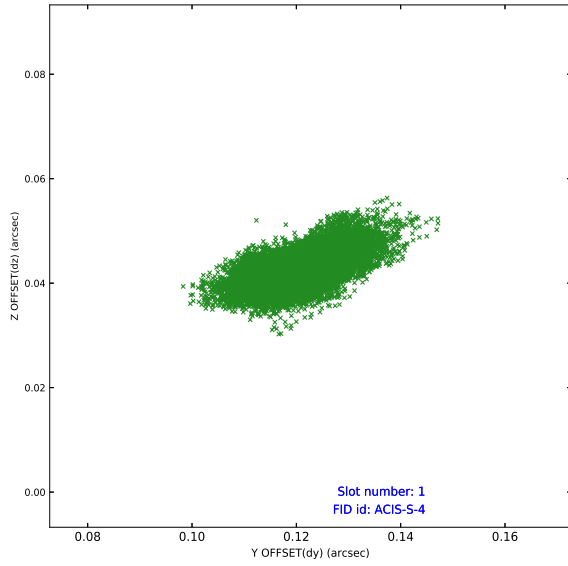


2.5 FID Slots

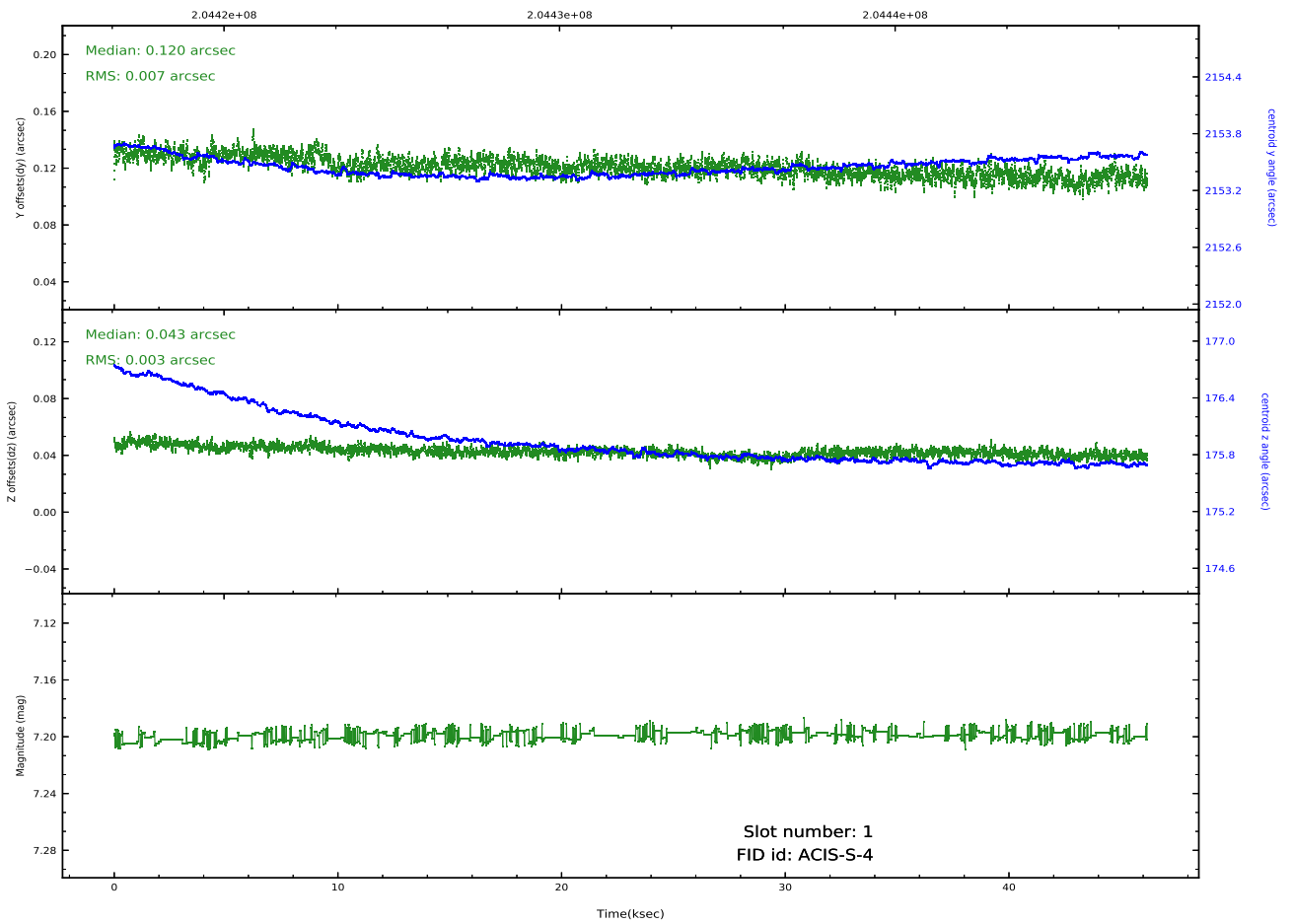
2.5.1 Slot 0



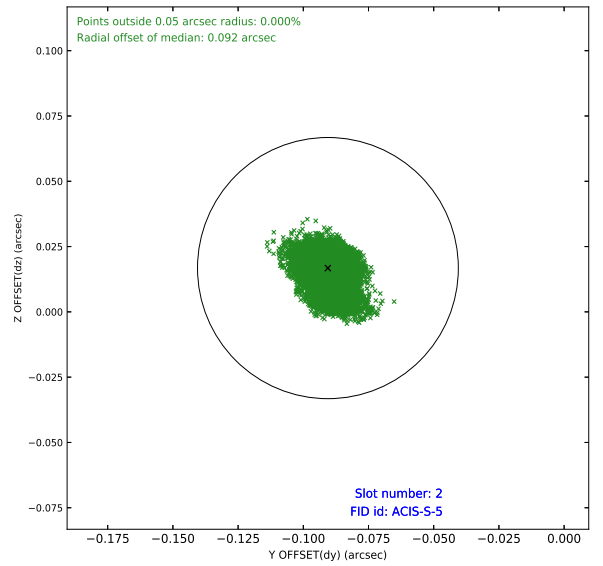
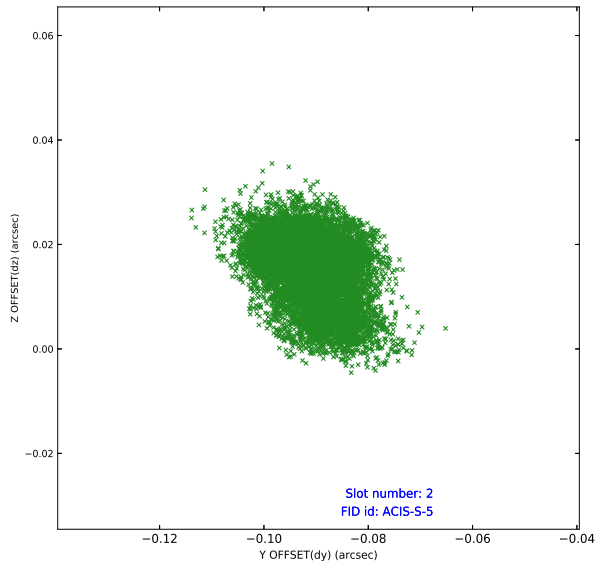
2.5.2 Slot 1



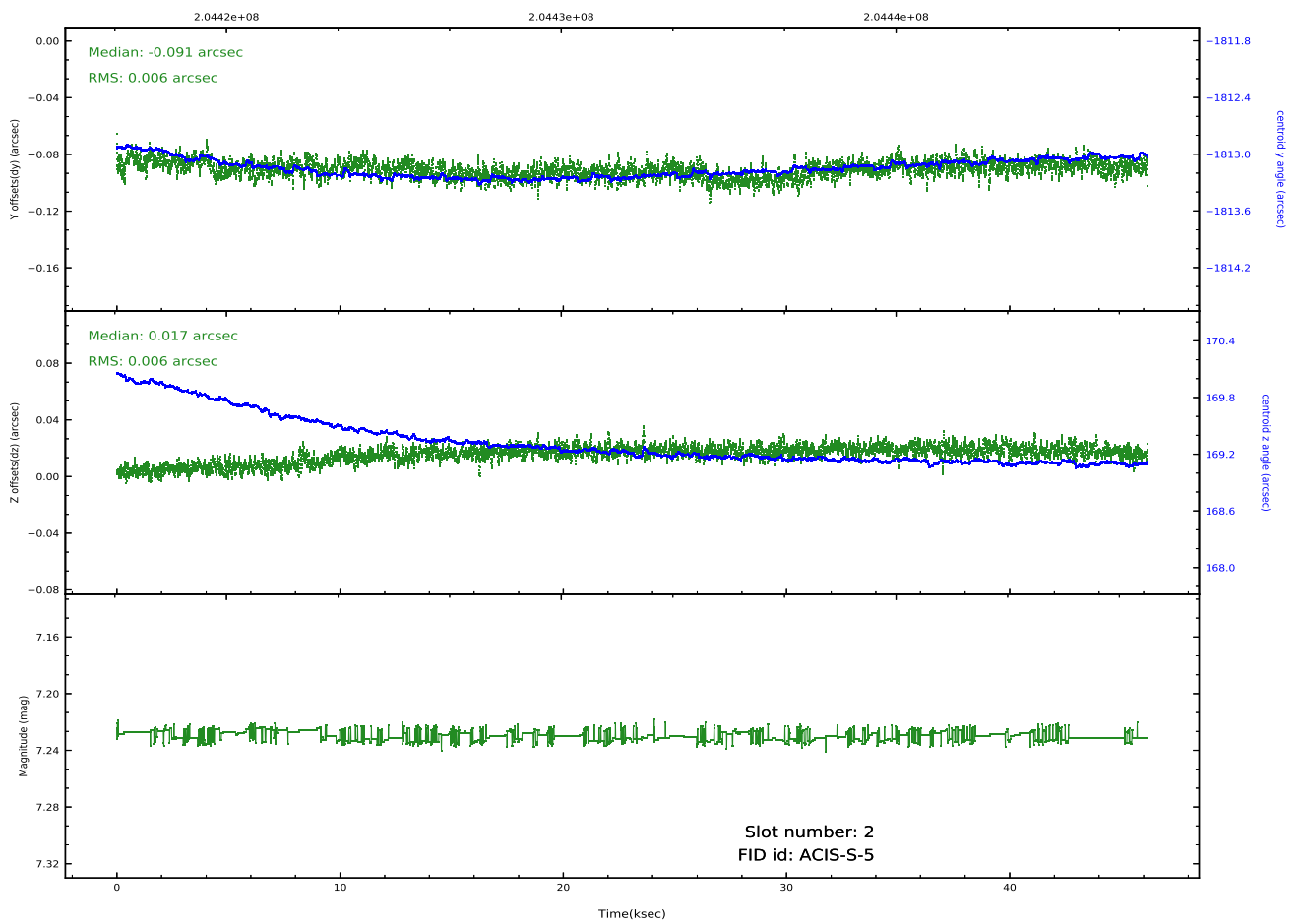
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.171

A.2 Comments