

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5468 - L2 Version 5
Chandra X-Ray Center

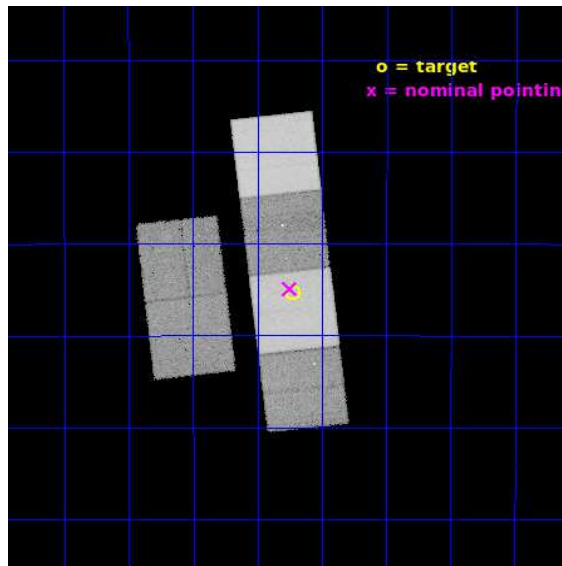
L2 Processing Date : Oct 8 2020

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1 Front

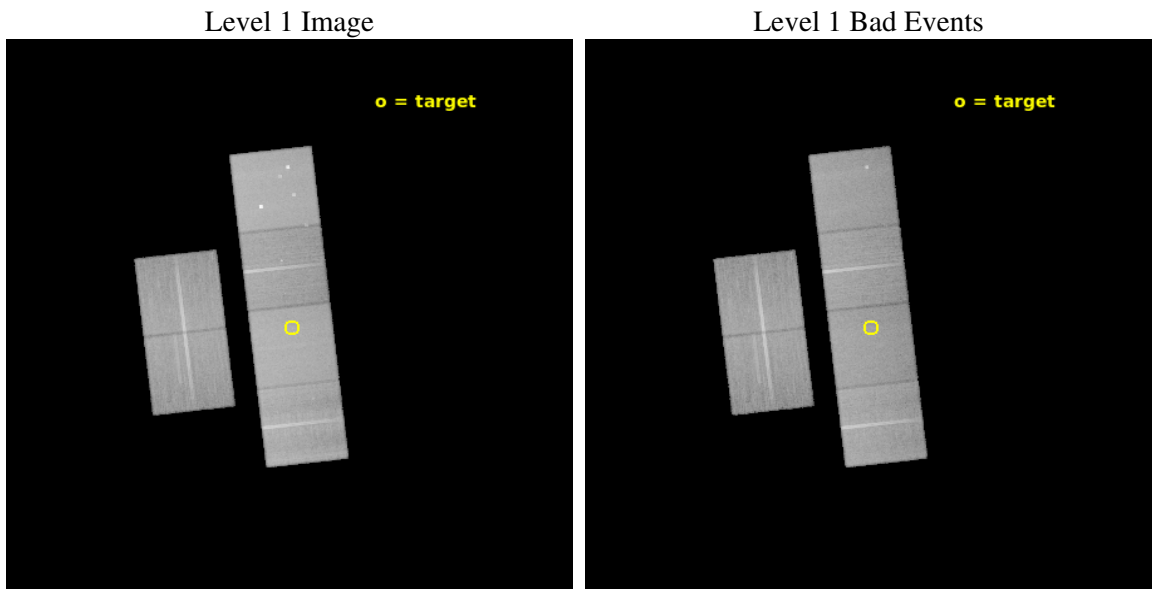
seq_num	400398	Sequence number
obs_id	5468	Observation id
title	Cooling curves of accretion-heated neutron stars	Proposal title
observer	Rudy Wijnands	Principal investigator
object	KS 1731-260	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.55625	Observer's specified target RA [deg]
dec_targ	-26.088556	Observer's specified target Dec [deg]
ra_nom	263.56206758586	Nominal RA [deg]
dec_nom	-26.08166635314	Nominal Dec [deg]
roll_nom	83.469085418831	Nominal Roll [deg]
revision	5	Processing version of data
ontime	38953.599854887	Sum of GTIs [s]
livetime	38460.345918482	Livetime [s]
ontime2	38953.599854887	Sum of GTIs [s]
ontime3	38953.599854887	Sum of GTIs [s]
ontime5	38953.599854887	Sum of GTIs [s]
ontime6	38953.599854887	Sum of GTIs [s]
ontime7	38953.599854887	Sum of GTIs [s]
ontime8	38950.358884603	Sum of GTIs [s]
l2events	480085	Number of level 2 events



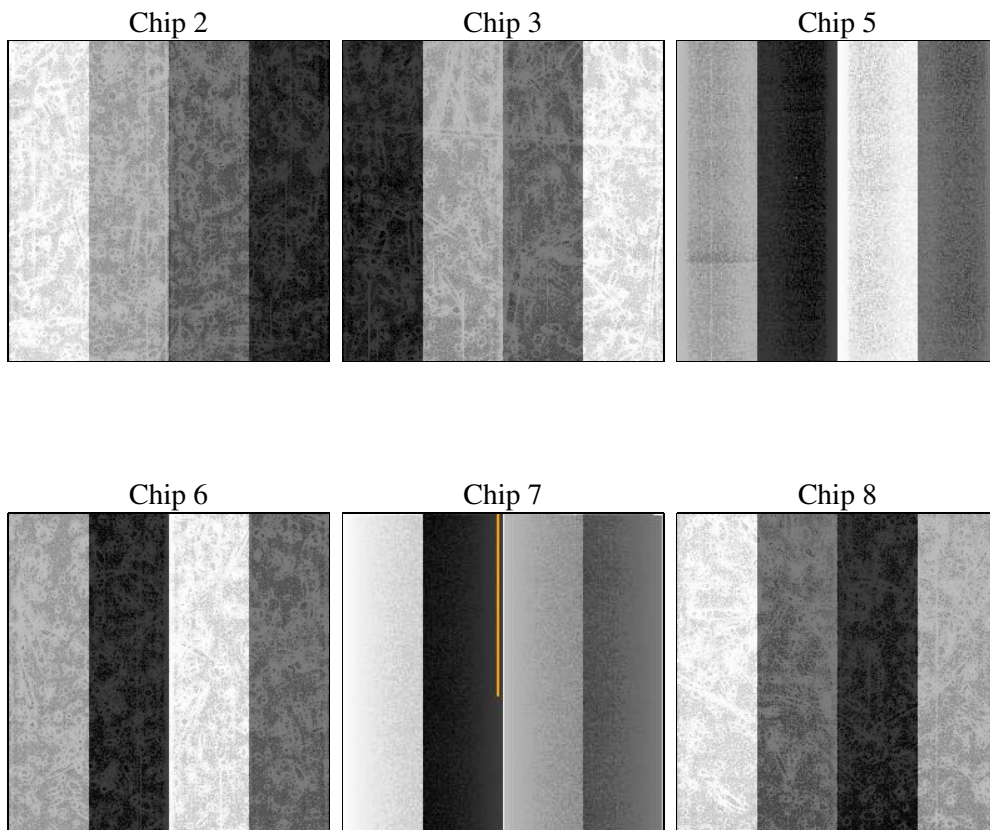
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39200.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	38953.599854887	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	38953.599854887	Sum of GTIs [s]
date	2020-10-08T18:34:29	Date and time of file creation	ontime3	38953.599854887	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	38953.599854887	Sum of GTIs [s]
			ontime6	38953.599854887	Sum of GTIs [s]
			ontime7	38953.599854887	Sum of GTIs [s]
			ontime8	38950.358884603	Sum of GTIs [s]
			l1events	2111802	Number of level 1 events

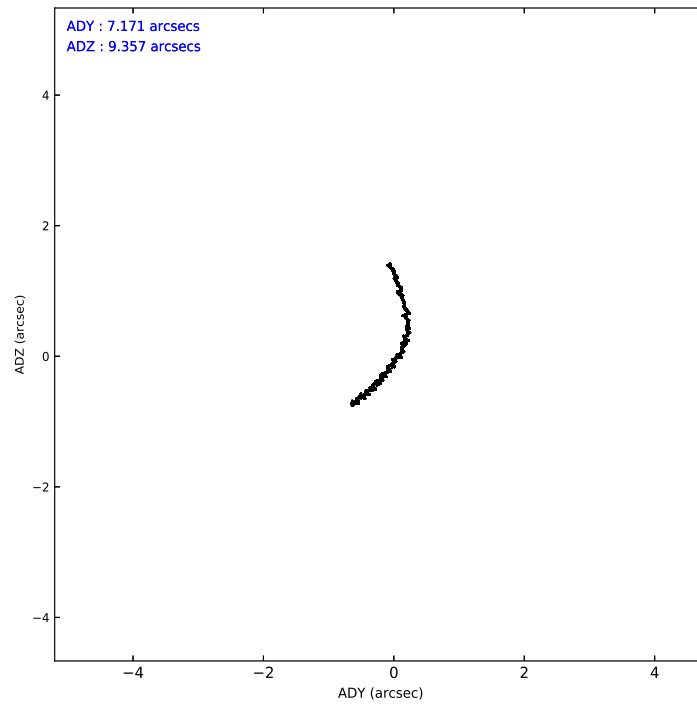
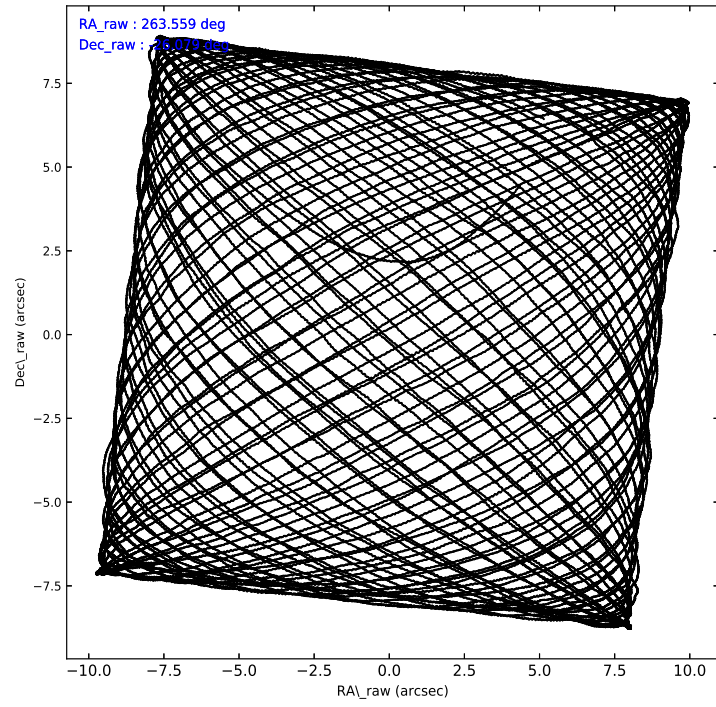
2.1.4 Events

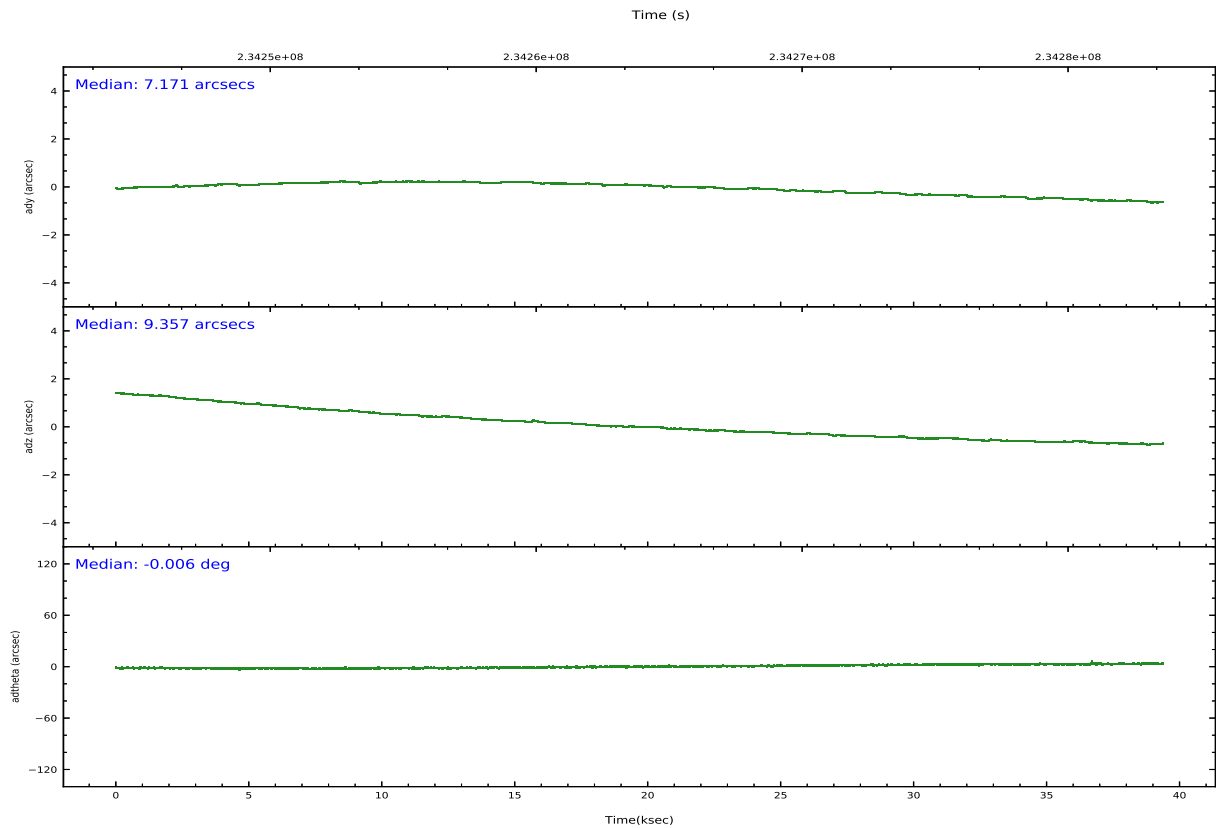
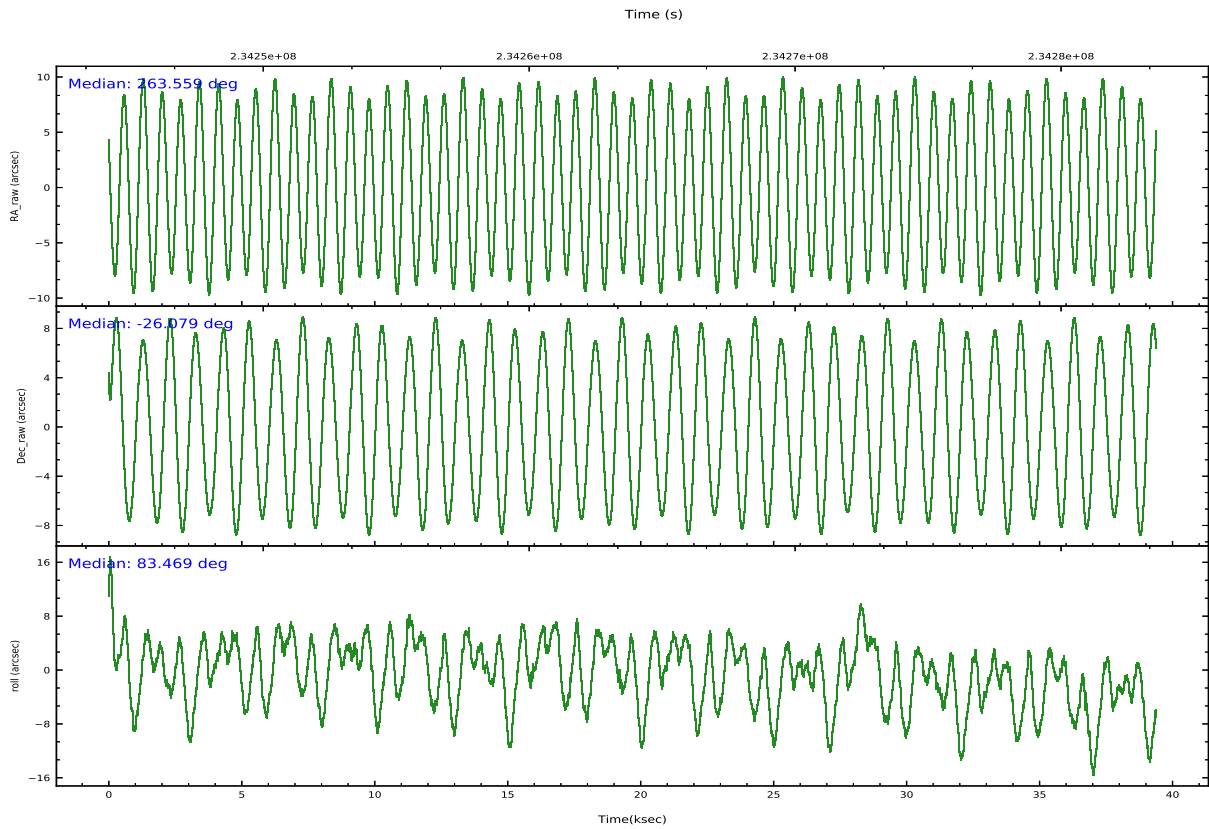
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	295296	286015	453340	296637	404616	375898	grade 0 events	16136	15996	25997	14945	14700	27625
rejected events	259321	250433	243073	259900	238029	292844		5%	5%	5%	5%	3%	7%
rejected %	87%	87%	53%	87%	58%	77%	grade 1 events	203	181	606	155	426	298
								0%	0%	0%	0%	0%	0%
							grade 2 events	7408	6738	61679	7609	33395	18087
								2%	2%	13%	2%	8%	4%
							grade 3 events	3318	3352	8111	3490	14694	8672
								1%	1%	1%	1%	3%	2%
							grade 4 events	3311	3456	7459	3439	14665	8120
								1%	1%	1%	1%	3%	2%
							grade 5 events	11715	12916	33259	13882	38484	18042
								3%	4%	7%	4%	9%	4%
							grade 6 events	5805	6043	107054	7261	89159	20559
								1%	2%	23%	2%	22%	5%
							grade 7 events	247400	237333	209175	245856	199093	274495
								83%	82%	46%	82%	49%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	263.571783	263.56206758586	Subarray requested	NONE	NONE
[deg] Pointing Dec	-26.104109	-26.08166635314	Alternating exposures requested	N	N
[deg] Pointing Roll	83.316836	83.469085418831	[s] Primary exposure time	0.000000	3.2
[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)	234244375.184000	234242970.10352			
Observation start date	2005-06-04T03:51:51	2005-06-04T03:29:30			
[s] Observation end time (MET)	234283575.184000	234284498.49292			
Observation end date	2005-06-04T14:45:11	2005-06-04T15:01:38			
Read mode	TIMED	TIMED			

2.3 Aspect



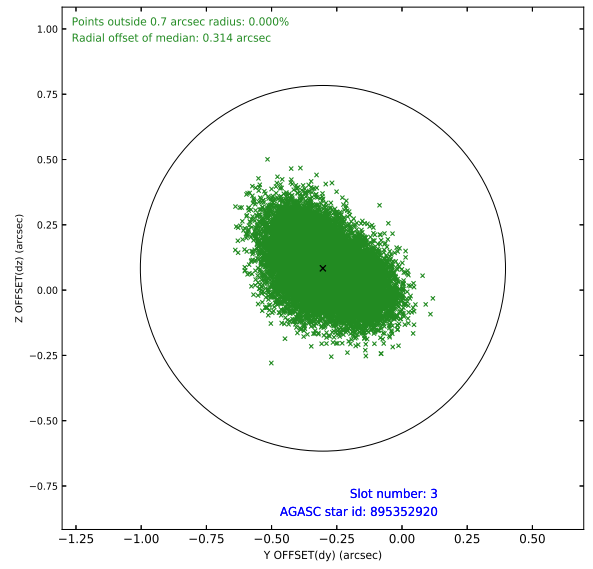
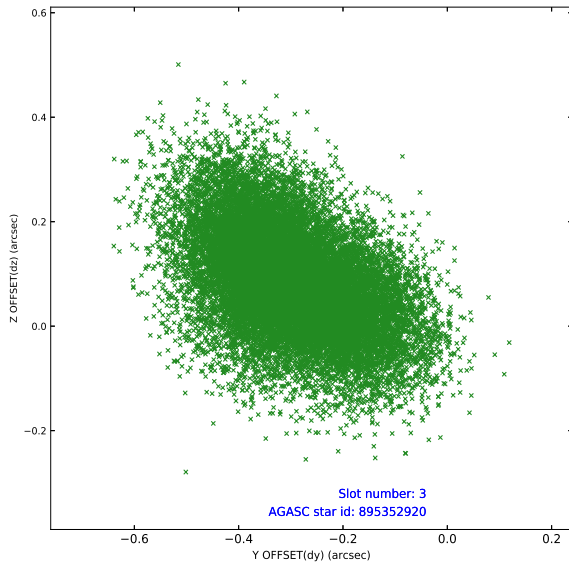


Slot Statistics

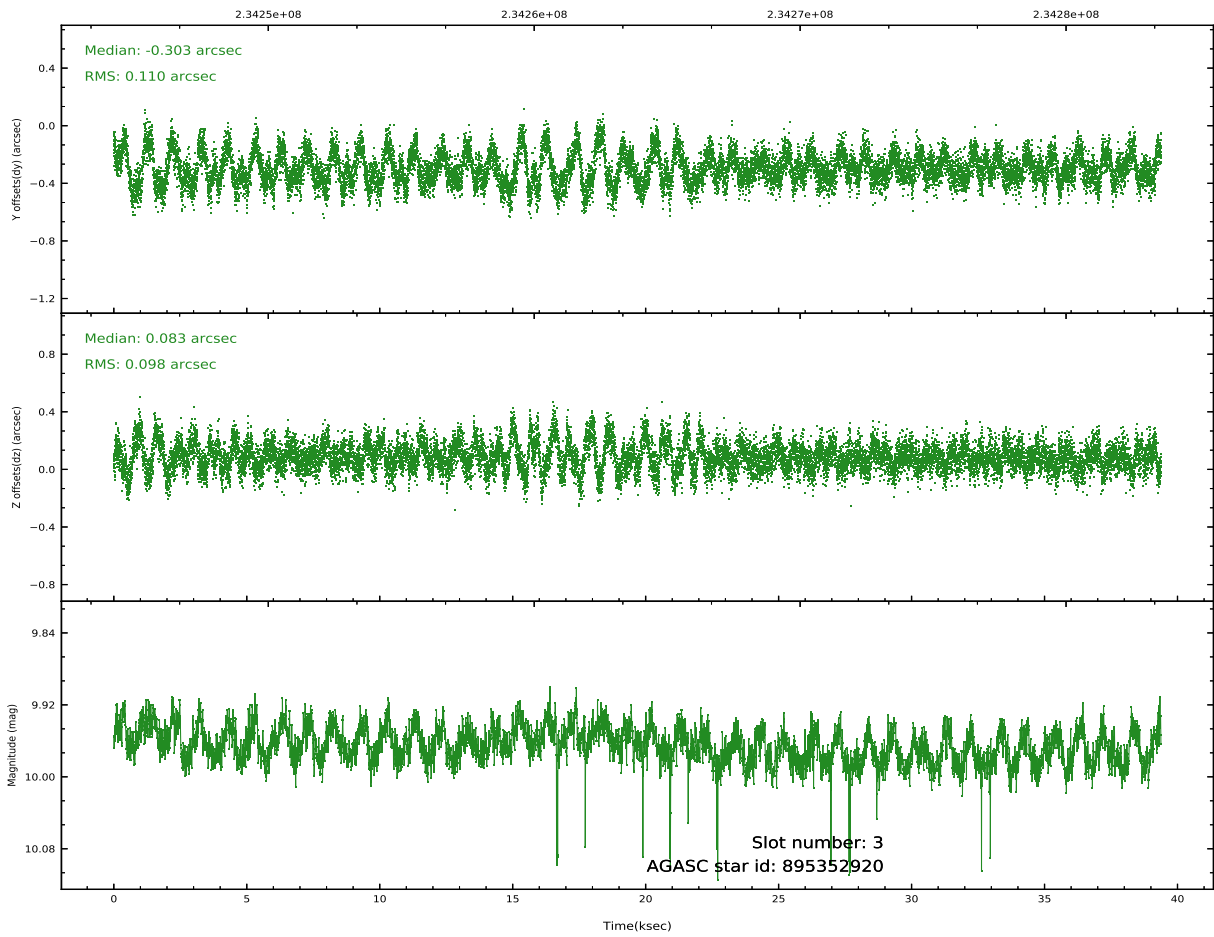
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	9607	1.000	-0.075	-0.081	0.015	0.024	0.000000	0.000000	-759.88	-1730
1	FID		ACIS-S-4	7.20	9605	1.000	0.154	0.058	0.007	0.013	0.000000	0.000000	2153.57	177
2	FID		ACIS-S-5	7.23	9607	1.000	-0.109	0.033	0.014	0.022	0.000000	0.000000	-1812.78	171
3	GUIDE	used	895352920	9.97	19178	1.000	-0.303	0.083	0.156	0.261	264.217496	-25.713600	1634.96	-1916
4	GUIDE	used	895748544	7.97	19210	1.000	0.056	0.073	0.073	0.118	263.692859	-26.739685	-2226.92	-653
5	GUIDE	used	895881920	9.41	19203	1.000	0.141	-0.077	0.102	0.170	263.913988	-26.630022	-1753.30	-1314
6	GUIDE	used	895223200	10.46	19113	1.000	0.038	-0.194	0.218	0.336	262.834279	-26.055766	-111.63	2387
7	GUIDE	used	895353104	10.18	19193	1.000	0.070	0.107	0.226	0.380	263.748270	-25.444684	2423.57	-292

2.4 Star Slots

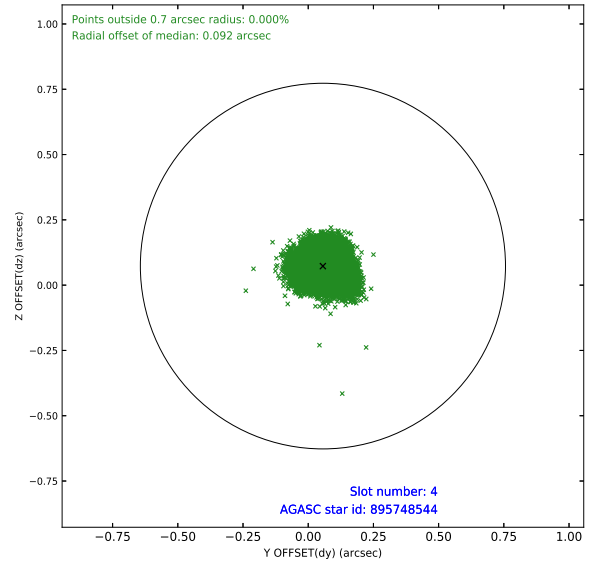
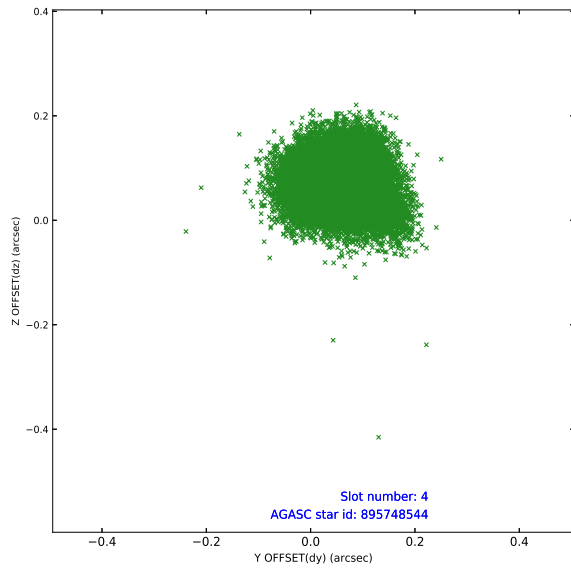
2.4.1 Slot 3



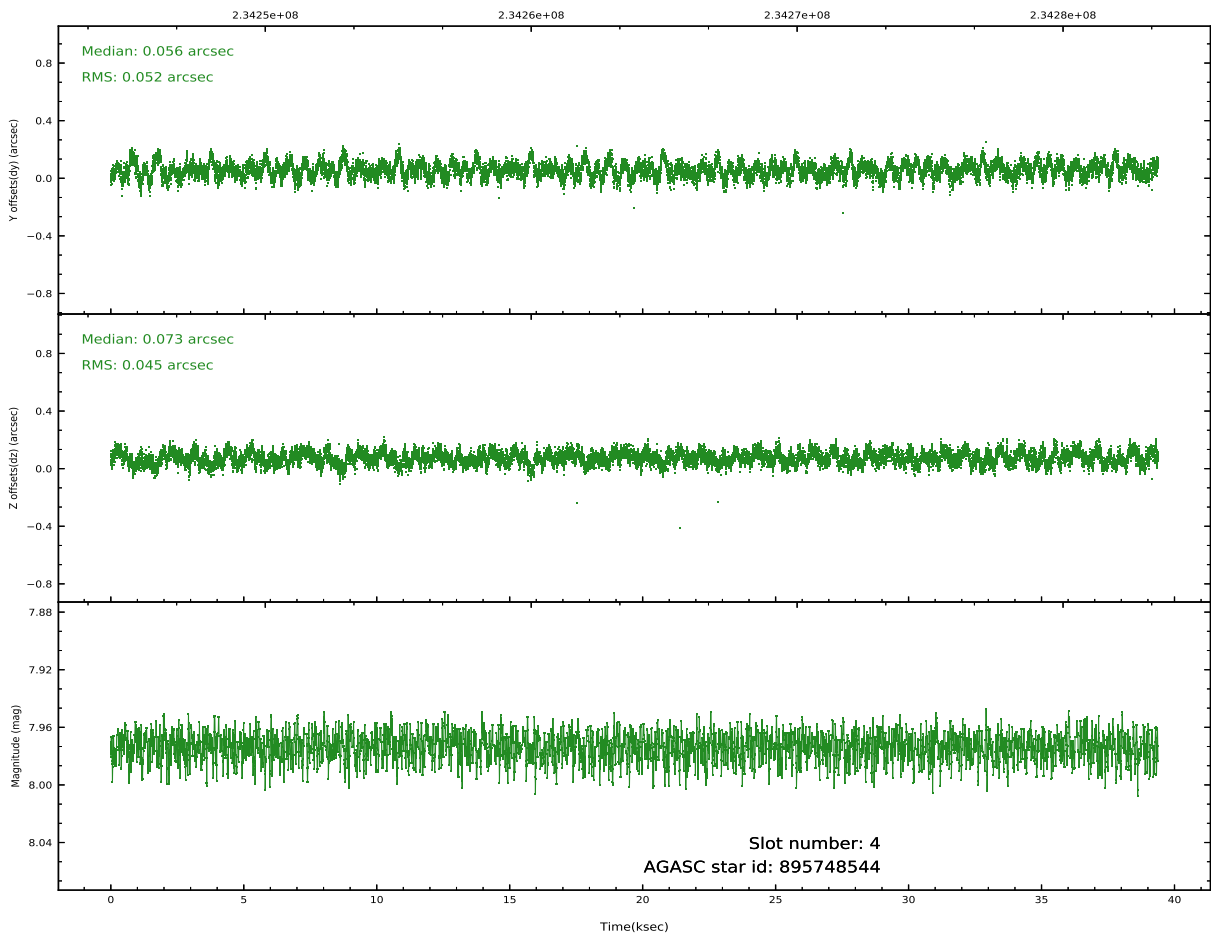
Time (s)



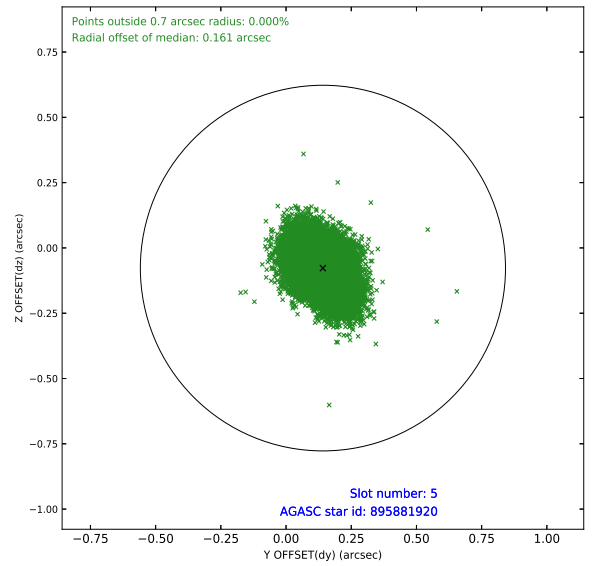
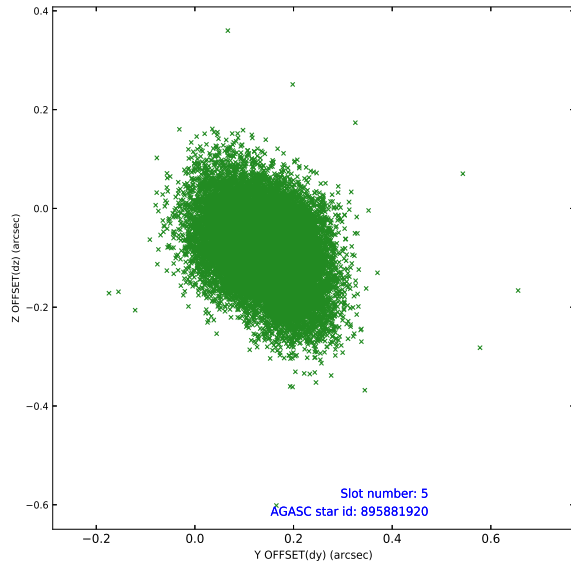
2.4.2 Slot 4



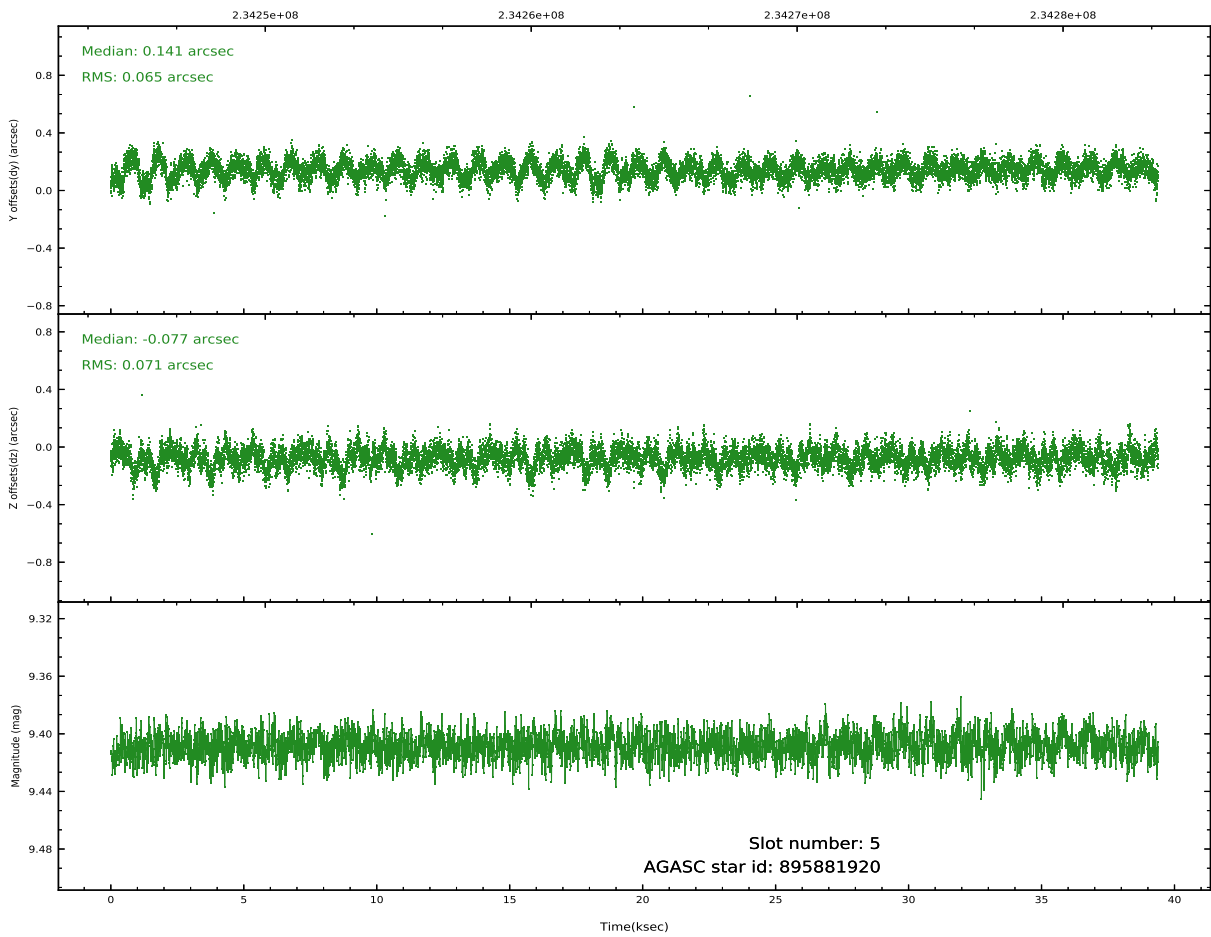
Time (s)



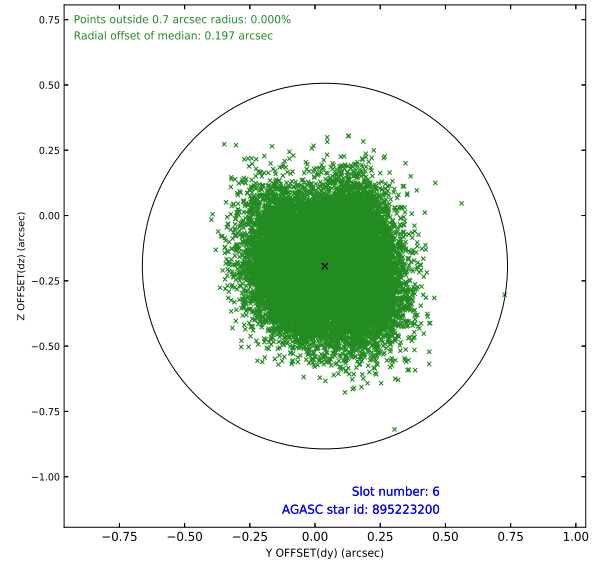
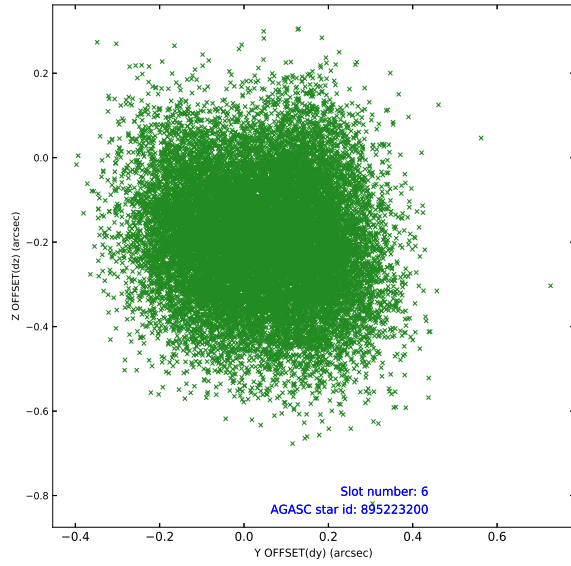
2.4.3 Slot 5



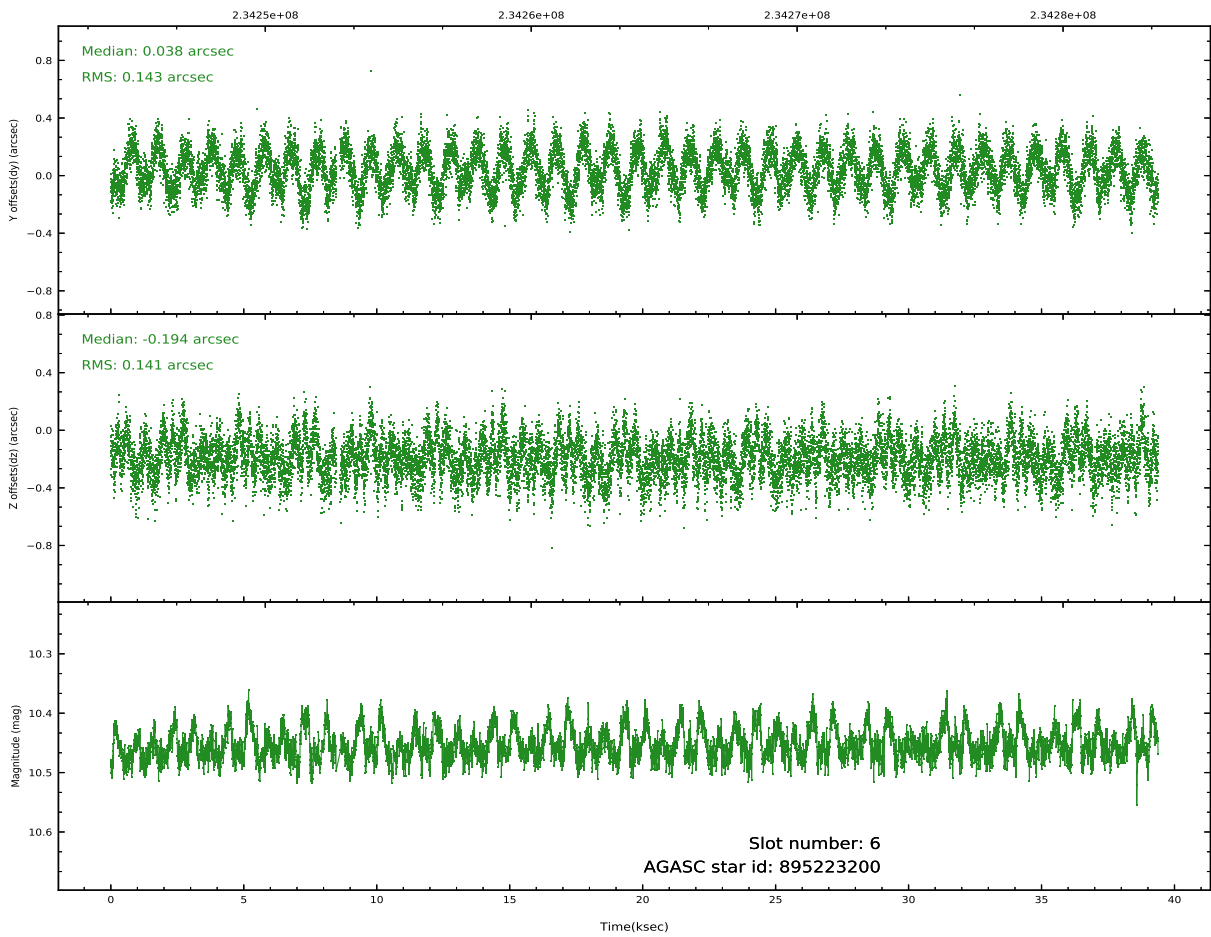
Time (s)



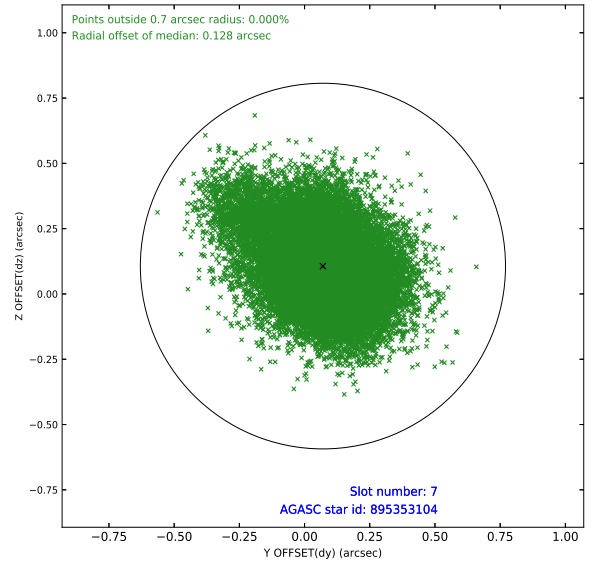
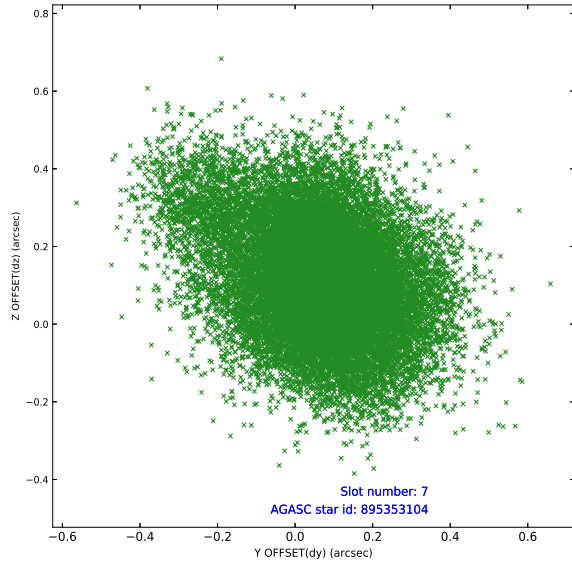
2.4.4 Slot 6



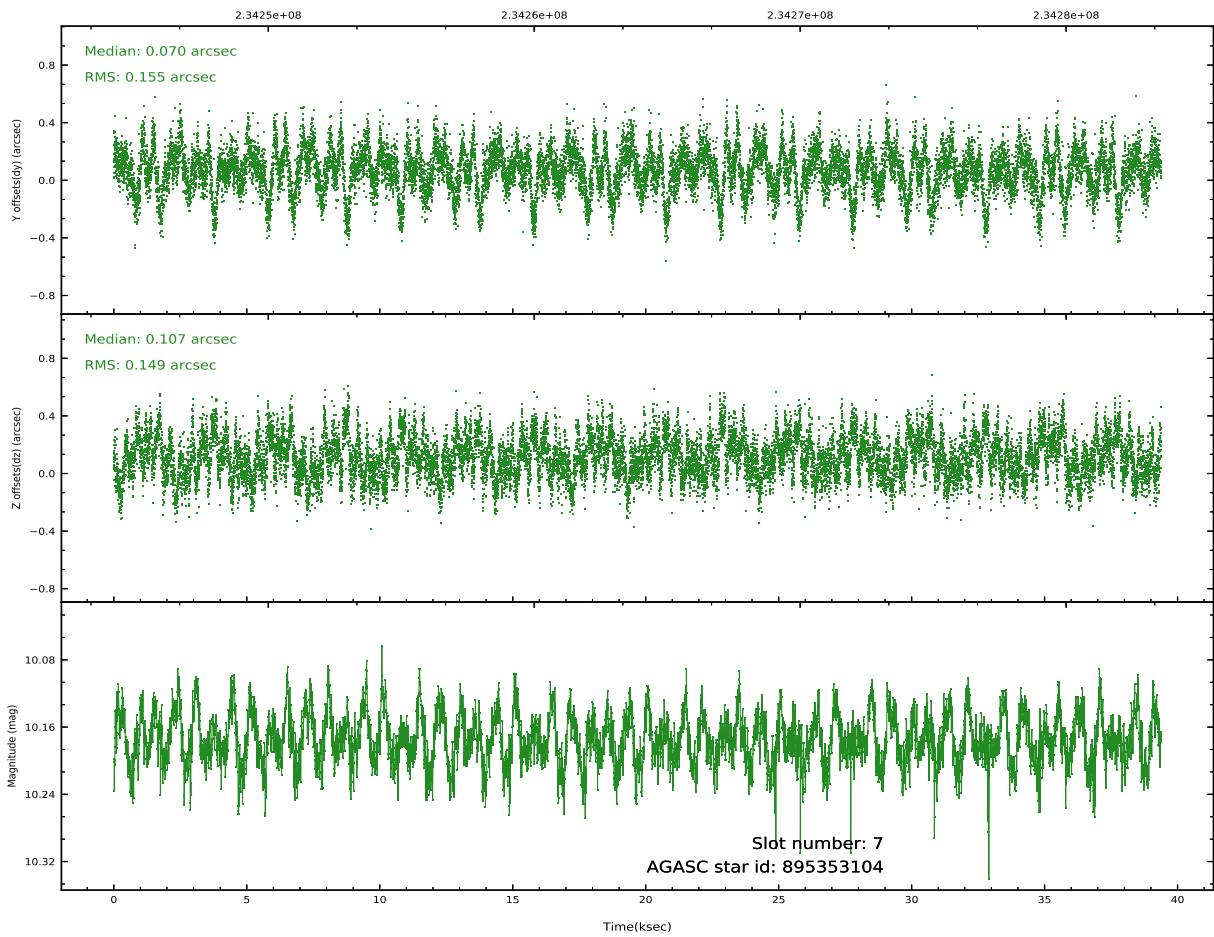
Time (s)



2.4.5 Slot 7

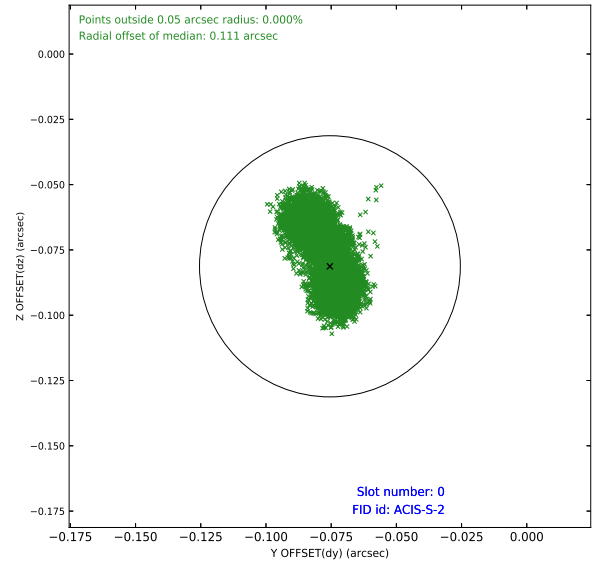
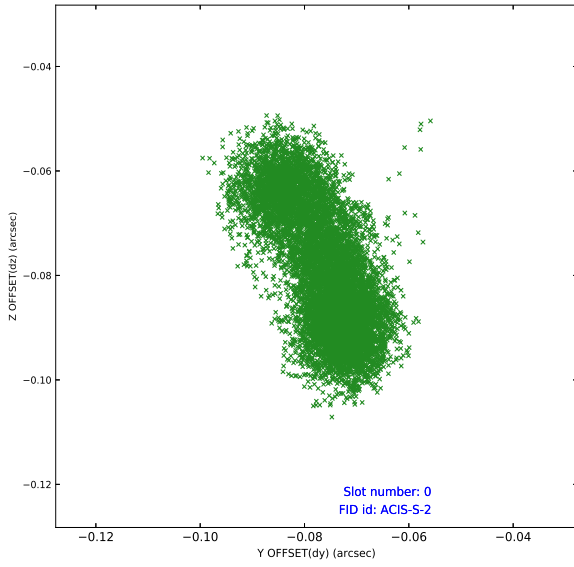


Time (s)

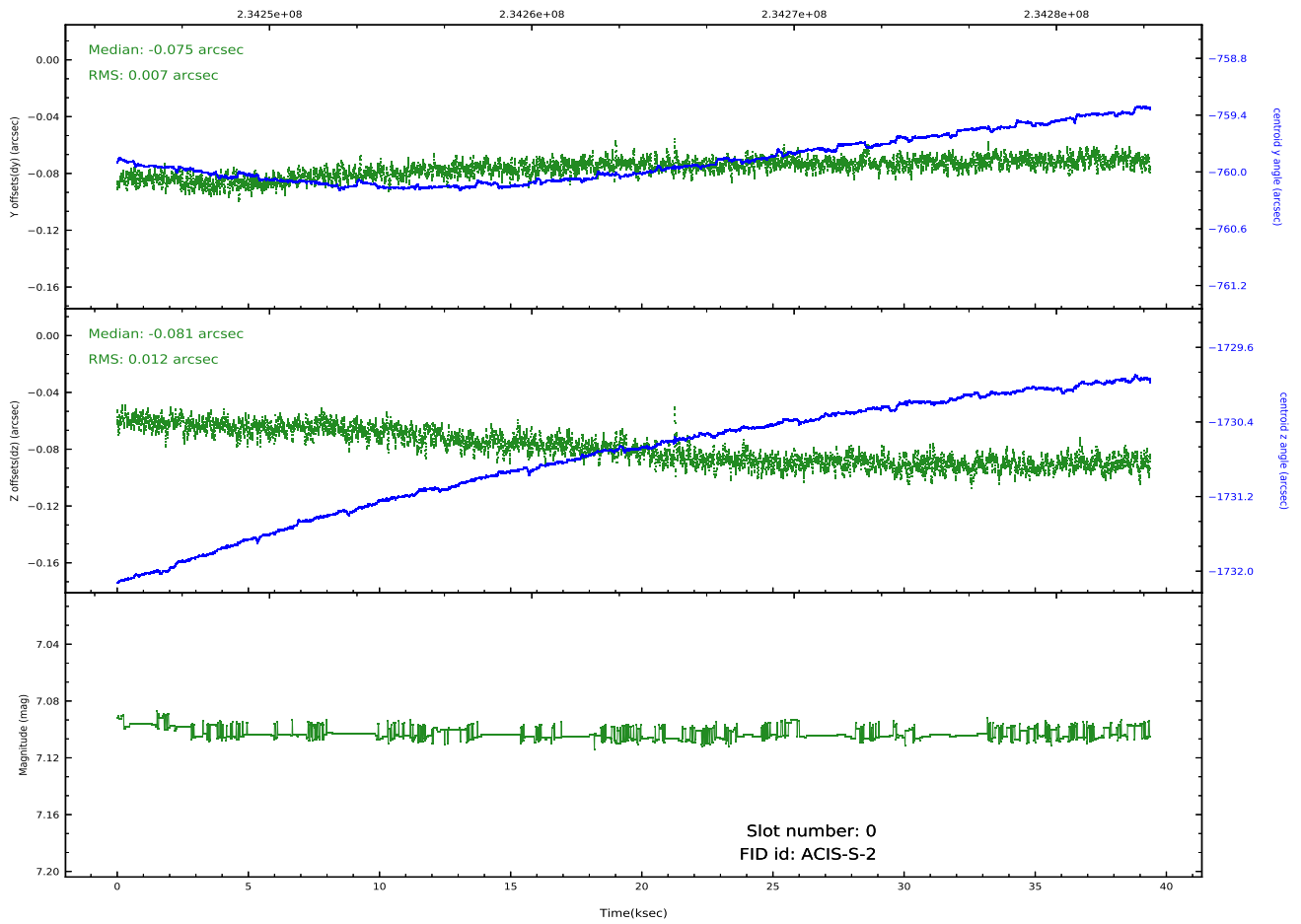


2.5 FID Slots

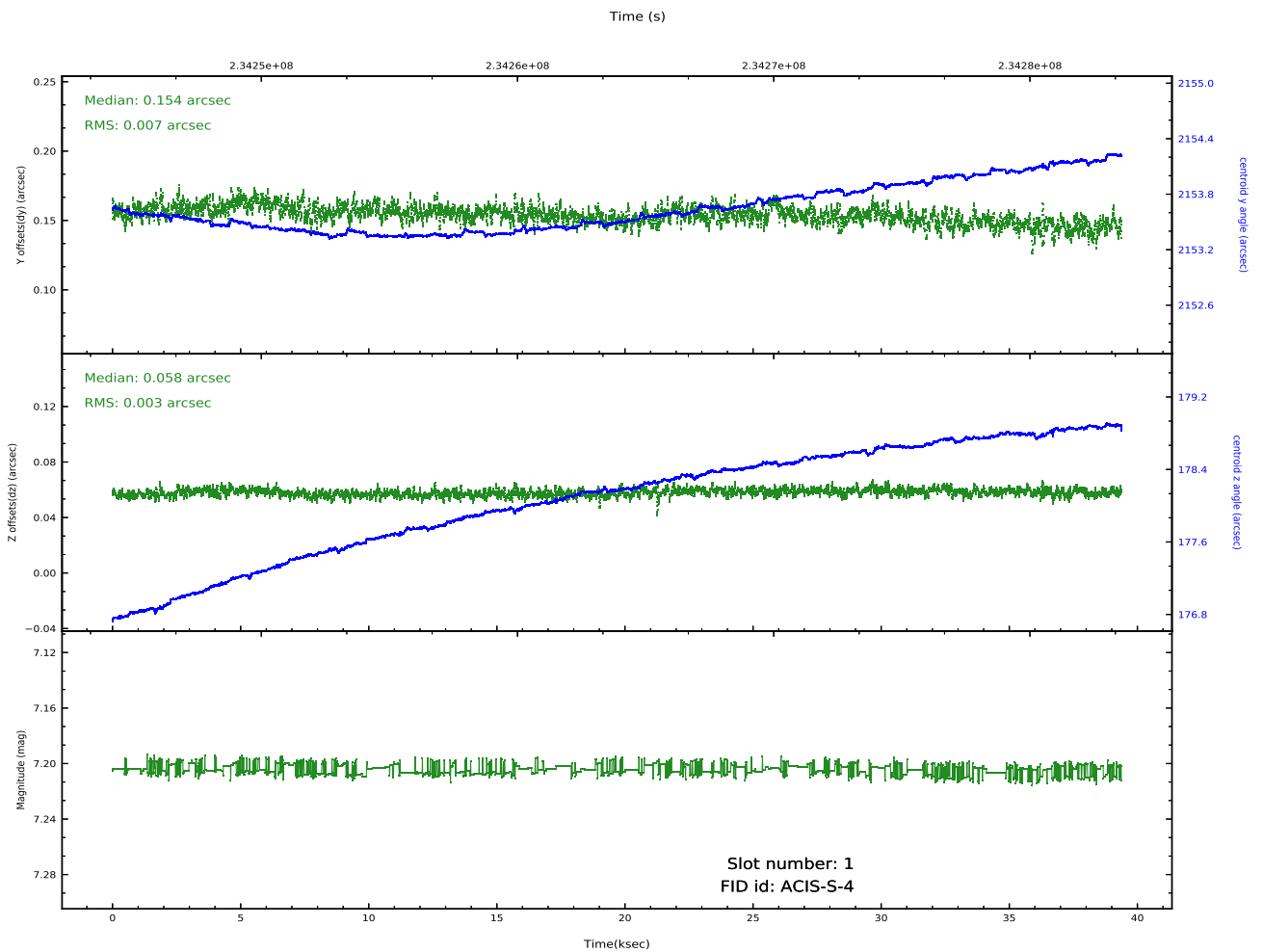
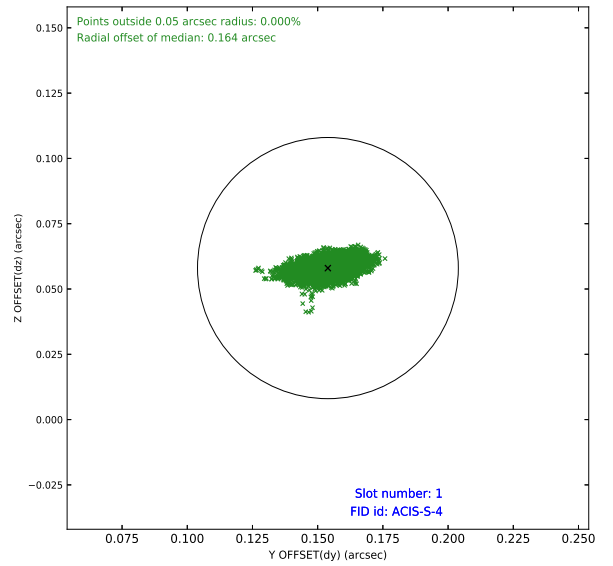
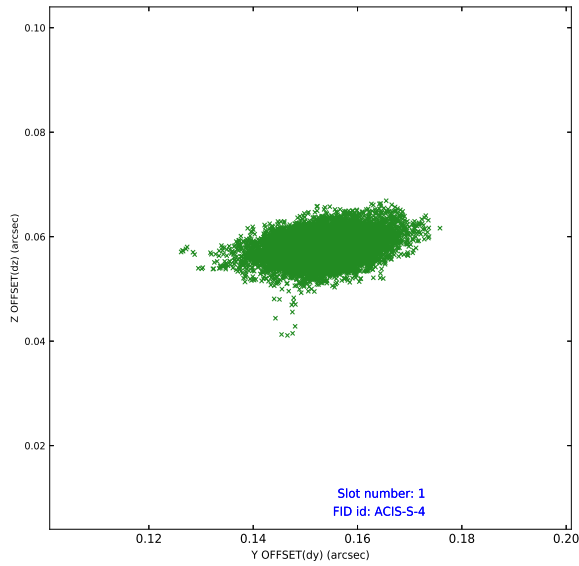
2.5.1 Slot 0



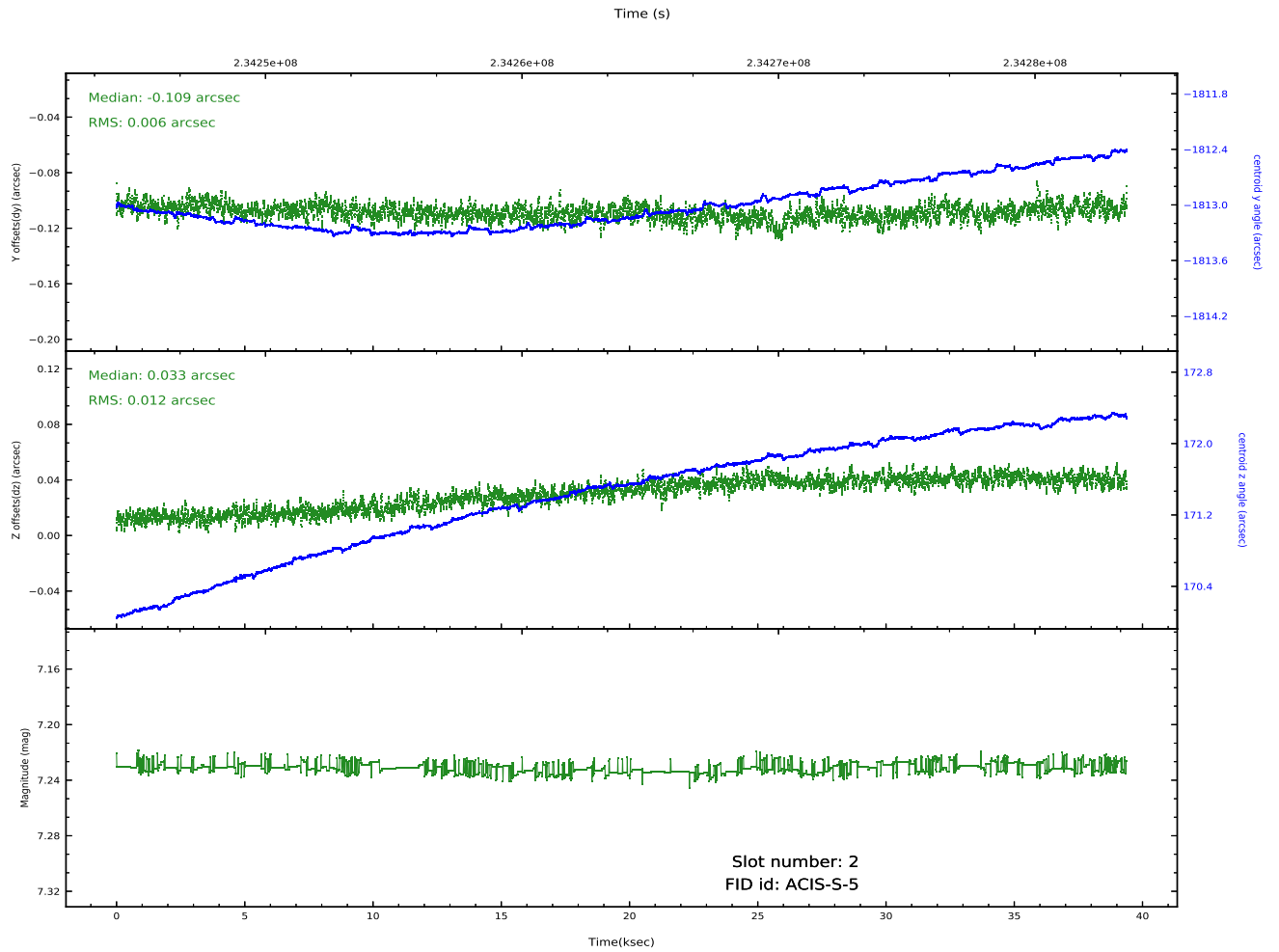
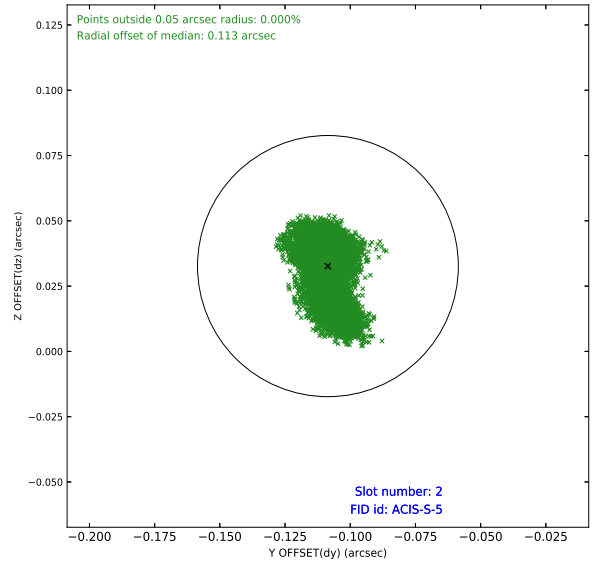
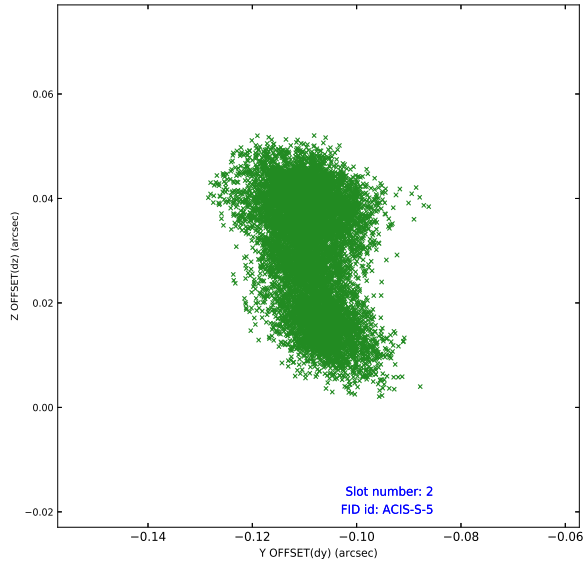
Time (s)



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)	2020.10.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	38.95359

A.2 Comments