

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 7199 - L2 Version 4
Chandra X-Ray Center

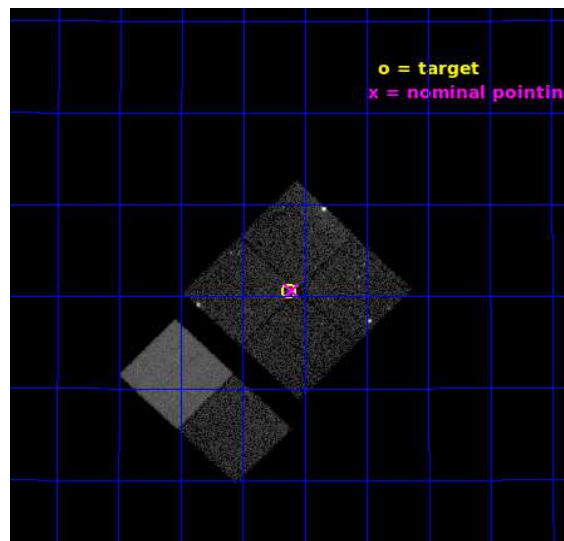
L2 Processing Date : Oct 11 2020

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1 Front

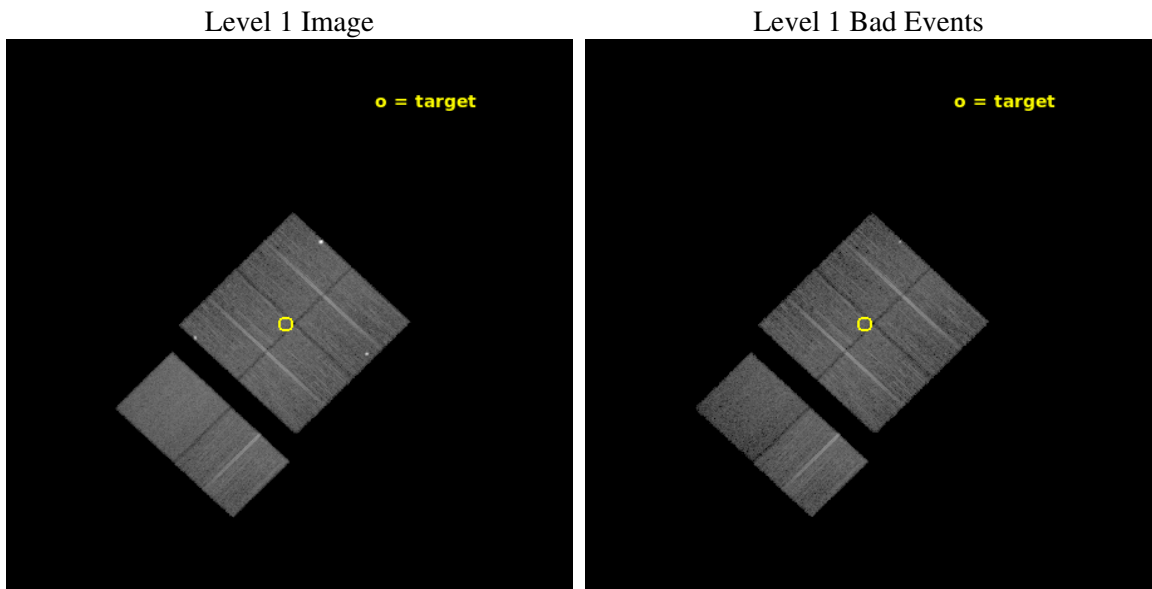
seq_num	600488	Sequence number
obs_id	7199	Observation id
title	The Chandra ACIS Survey of M33 (ChASem33): A Deep Survey of the Nearest Face-on Spiral Galaxy	Proposal title
observer	Manami Sasaki	Principal investigator
object	M33	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.532083	Observer's specified target RA [deg]
dec_targ	30.509111	Observer's specified target Dec [deg]
ra_nom	23.525939166669	Nominal RA [deg]
dec_nom	30.510878511826	Nominal Dec [deg]
roll_nom	224.21165621609	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15010.899449617	Sum of GTIs [s]
livetime	14820.822402307	Livetime [s]
ontime0	15014.017309934	Sum of GTIs [s]
ontime1	15010.817349702	Sum of GTIs [s]
ontime2	15010.858409643	Sum of GTIs [s]
ontime3	15010.899449617	Sum of GTIs [s]
ontime6	15010.981539637	Sum of GTIs [s]
ontime7	15014.181469917	Sum of GTIs [s]
l2events	106758	Number of level 2 events



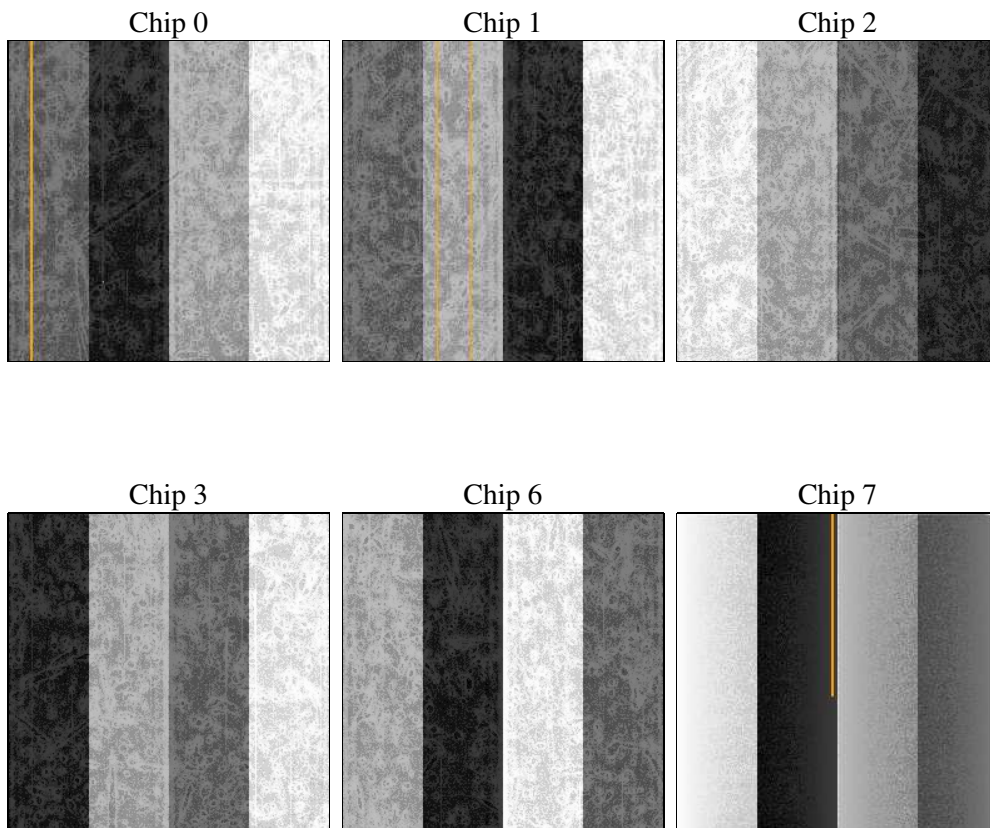
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14965.063000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15010.899449617	Sum of GTIs [s]
caldsver	4.9.2	 	ontime0	15014.017309934	Sum of GTIs [s]
date	2020-10-11T13:42:58	Date and time of file creation	ontime1	15010.817349702	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	15010.858409643	Sum of GTIs [s]
			ontime3	15010.899449617	Sum of GTIs [s]
			ontime6	15010.981539637	Sum of GTIs [s]
			ontime7	15014.181469917	Sum of GTIs [s]
			l1events	620921	Number of level 1 events

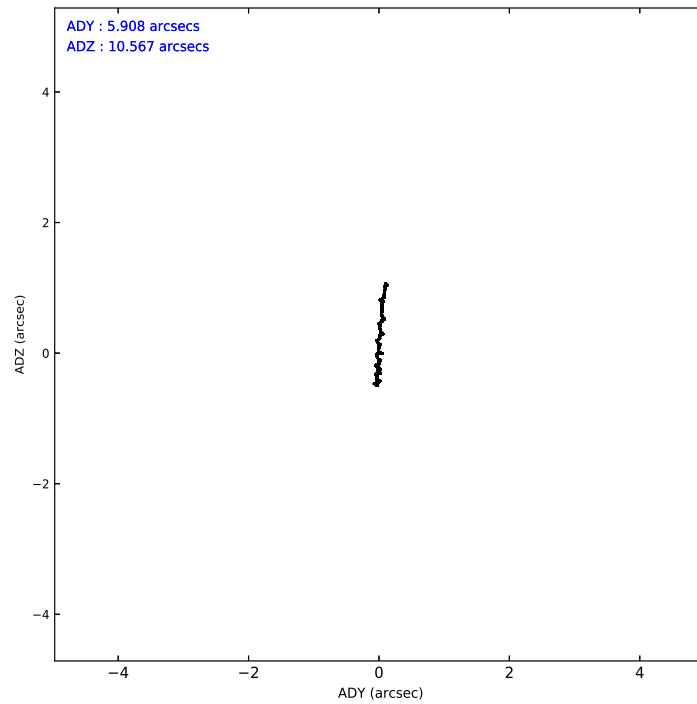
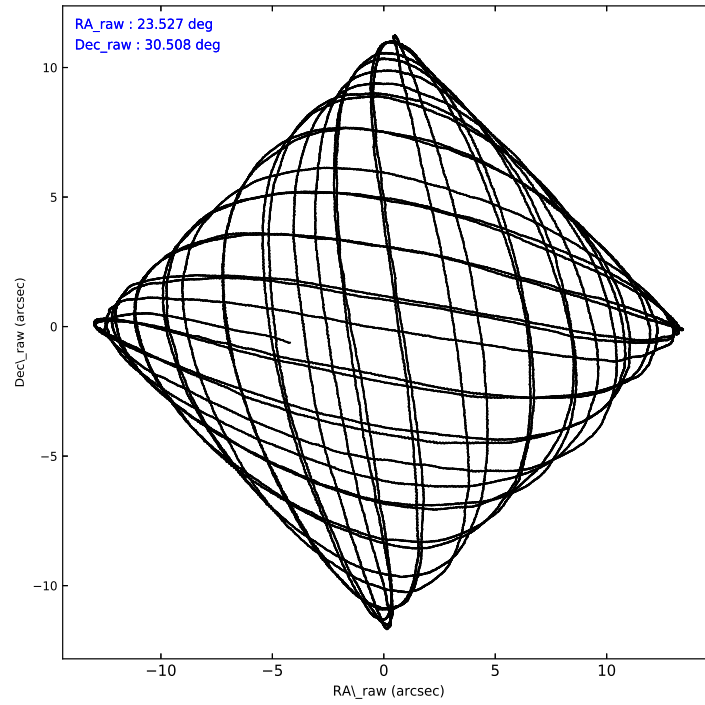
2.1.4 Events

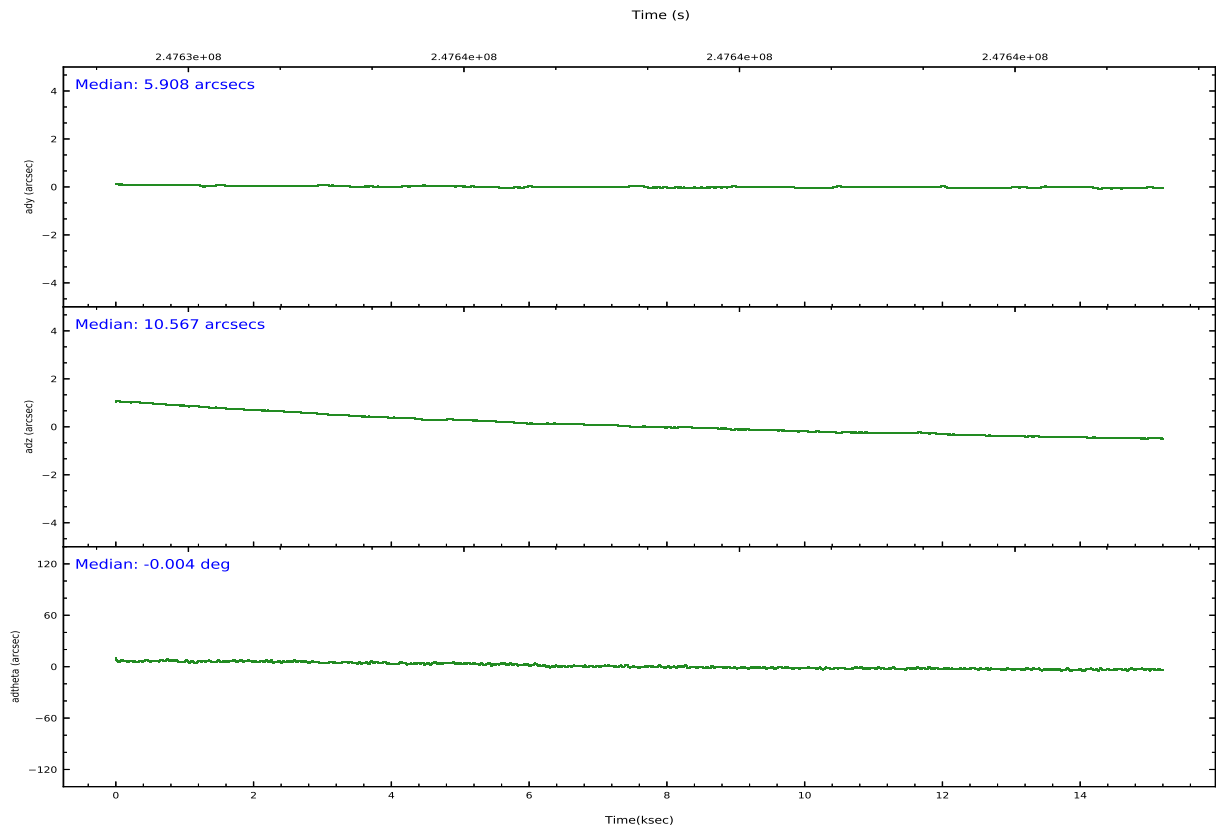
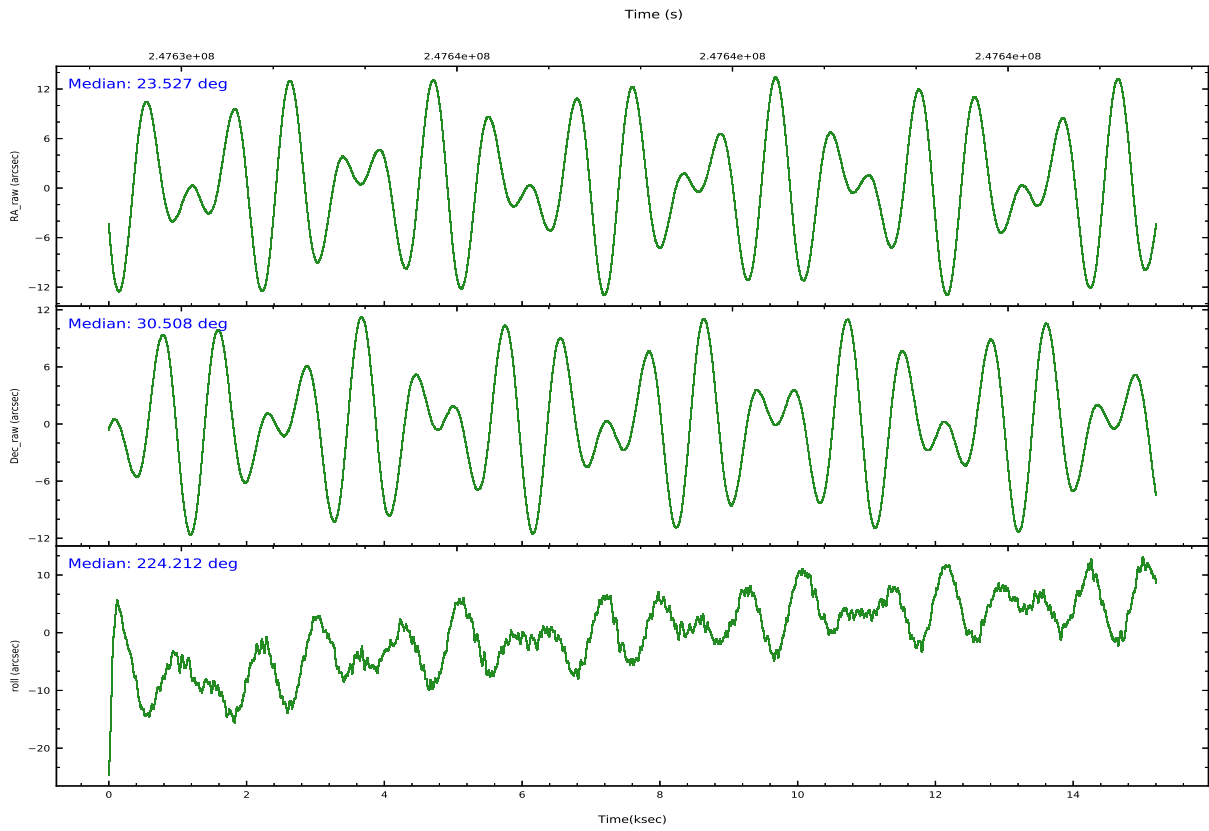
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	97968	107285	103066	97907	103903	110792	grade 0 events	6121	16846	3442	5037	3515	3995
rejected events	84896	80155	93726	86579	93842	61054		6%	15%	3%	5%	3%	3%
rejected %	86%	74%	90%	88%	90%	55%	grade 1 events	69	316	45	58	55	96
								0%	0%	0%	0%	0%	0%
							grade 2 events	2604	4182	2200	2166	2248	9716
								2%	3%	2%	2%	2%	8%
							grade 3 events	1240	1793	1020	1117	1089	4535
								1%	1%	0%	1%	1%	4%
							grade 4 events	1175	1721	1024	1095	1022	4736
								1%	1%	0%	1%	0%	4%
							grade 5 events	3317	4010	3074	3942	4191	11670
								3%	3%	2%	4%	4%	10%
							grade 6 events	1937	2594	1655	1915	2189	26767
								1%	2%	1%	1%	2%	24%
							grade 7 events	81505	75823	90606	82577	89594	49277
								83%	70%	87%	84%	86%	44%

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	23.535589	23.525939166669	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.533805	30.510878511826	Alternating exposures requested	N	N
[deg] Pointing Roll	223.998215	224.21165621609	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.782348	-0.7823481983384333			
[mm] SIM defocus	0	1.724155329618782e-08			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	247631185.184000	247630148.75514			
Observation start date	2005-11-06T02:25:21	2005-11-06T02:09:08			
[s] Observation end time (MET)	247646150.184000	247646387.83088			
Observation end date	2005-11-06T06:34:46	2005-11-06T06:39:47			
Read mode	TIMED	TIMED			

2.3 Aspect





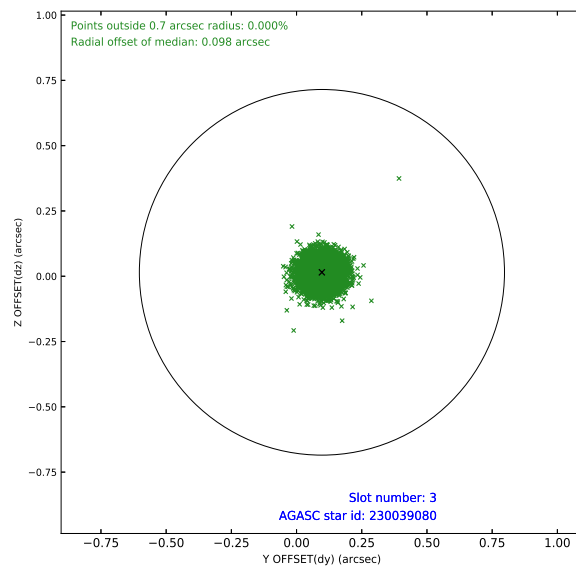
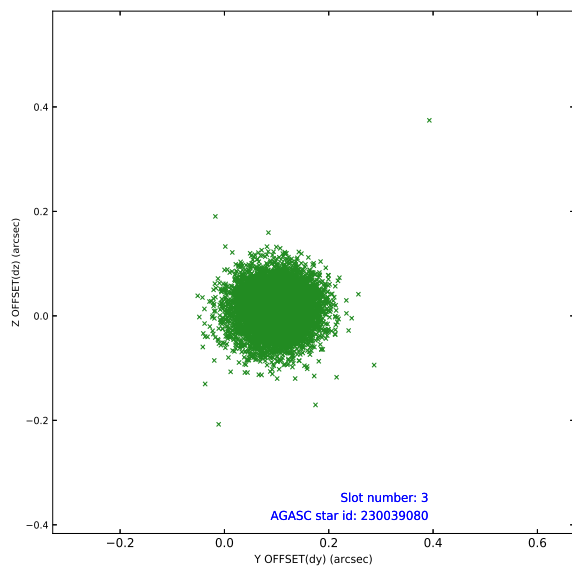
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-1	7.25	3708	1.000	0.016	0.006	0.009	0.015	0.000000	0.000000	933.84	-834
1	FID		ACIS-I-2	7.14	3709	1.000	-0.109	-0.057	0.009	0.020	0.000000	0.000000	-760.21	-840
2	FID		ACIS-I-6	7.24	3709	1.000	0.002	0.119	0.010	0.018	0.000000	0.000000	399.26	1707
3	GUIDE	used	230039080	8.69	7415	1.000	0.097	0.015	0.059	0.097	23.320866	29.887774	2097.43	1207
4	GUIDE	used	300553080	9.06	7412	1.000	0.049	0.170	0.082	0.130	23.777101	30.773227	-1136.21	-100
5	GUIDE	used	300559160	9.41	7399	1.000	-0.048	-0.113	0.092	0.150	24.161026	30.632205	-1643.50	1087
6	GUIDE	used	300559832	7.88	7417	1.000	-0.042	-0.041	0.054	0.088	24.407732	30.552794	-1999.96	1821
7	GUIDE	used	300559960	7.88	7415	1.000	-0.055	-0.029	0.059	0.093	22.944463	30.624765	1086.32	-1509

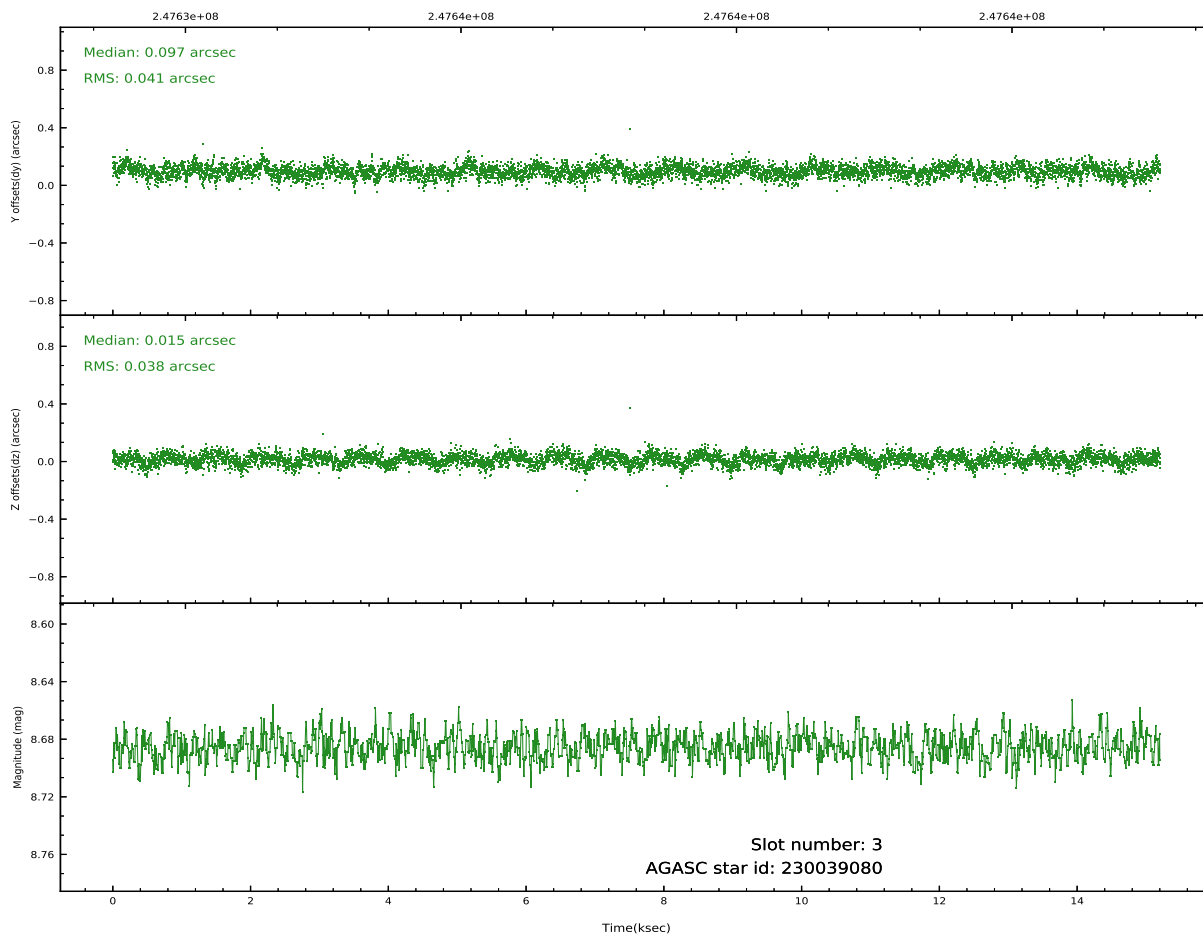
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2.4 Star Slots

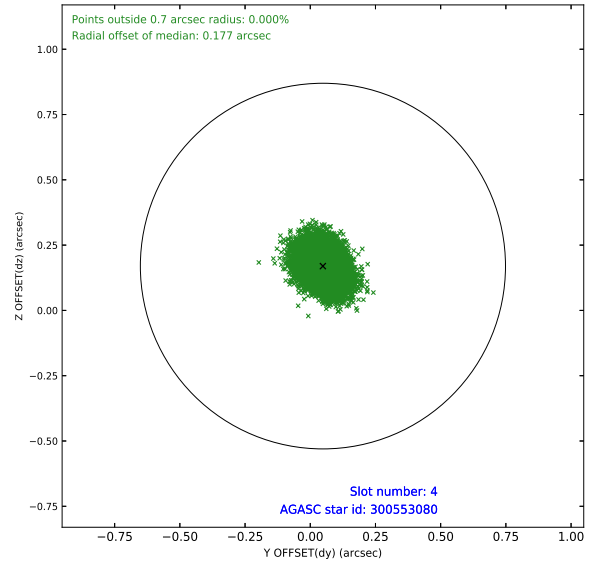
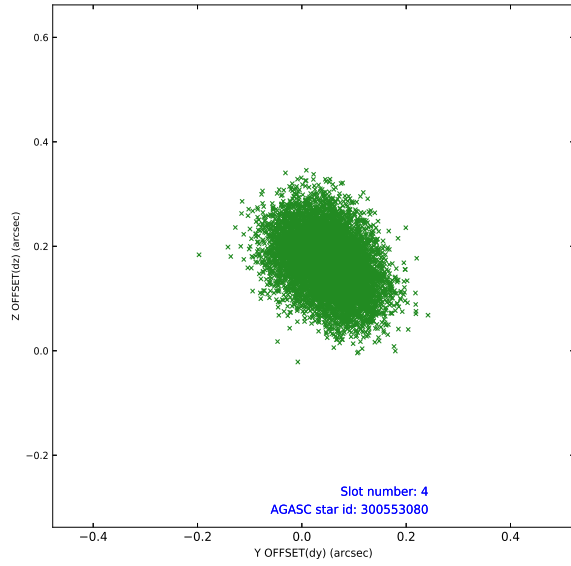
2.4.1 Slot 3



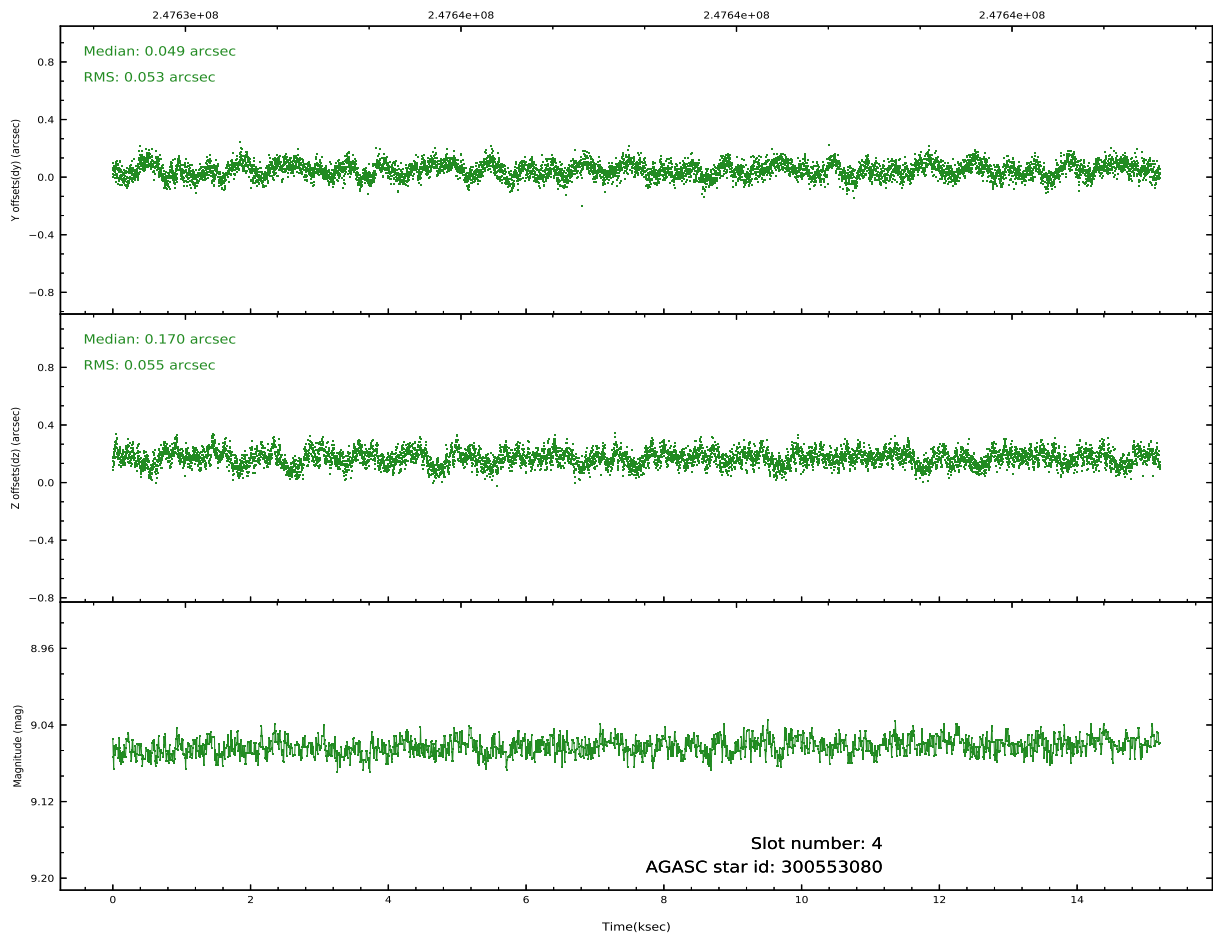
Time (s)



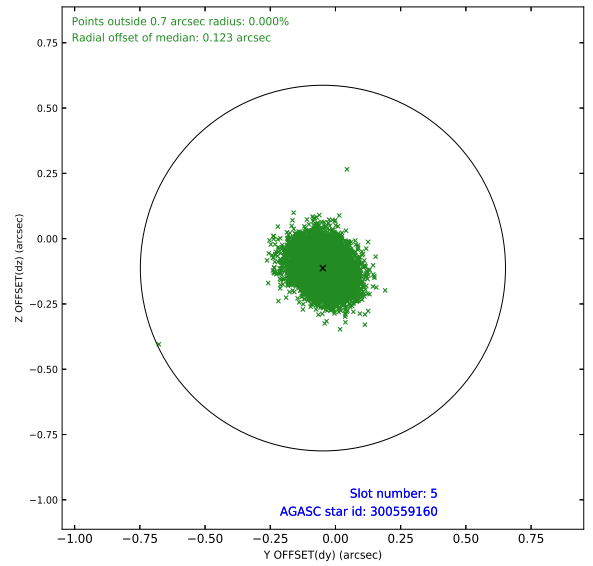
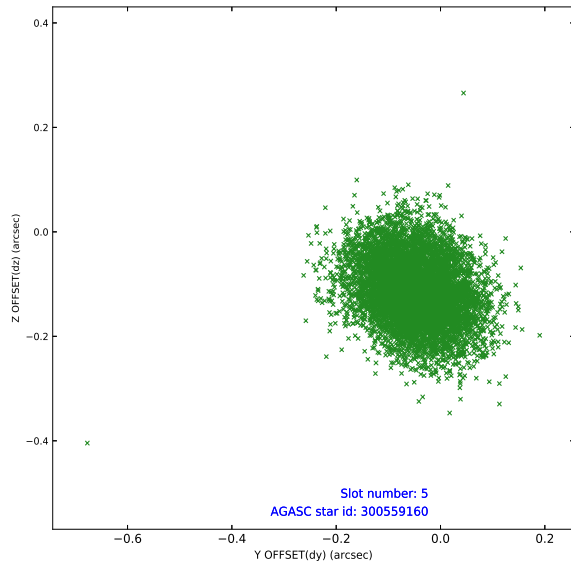
2.4.2 Slot 4



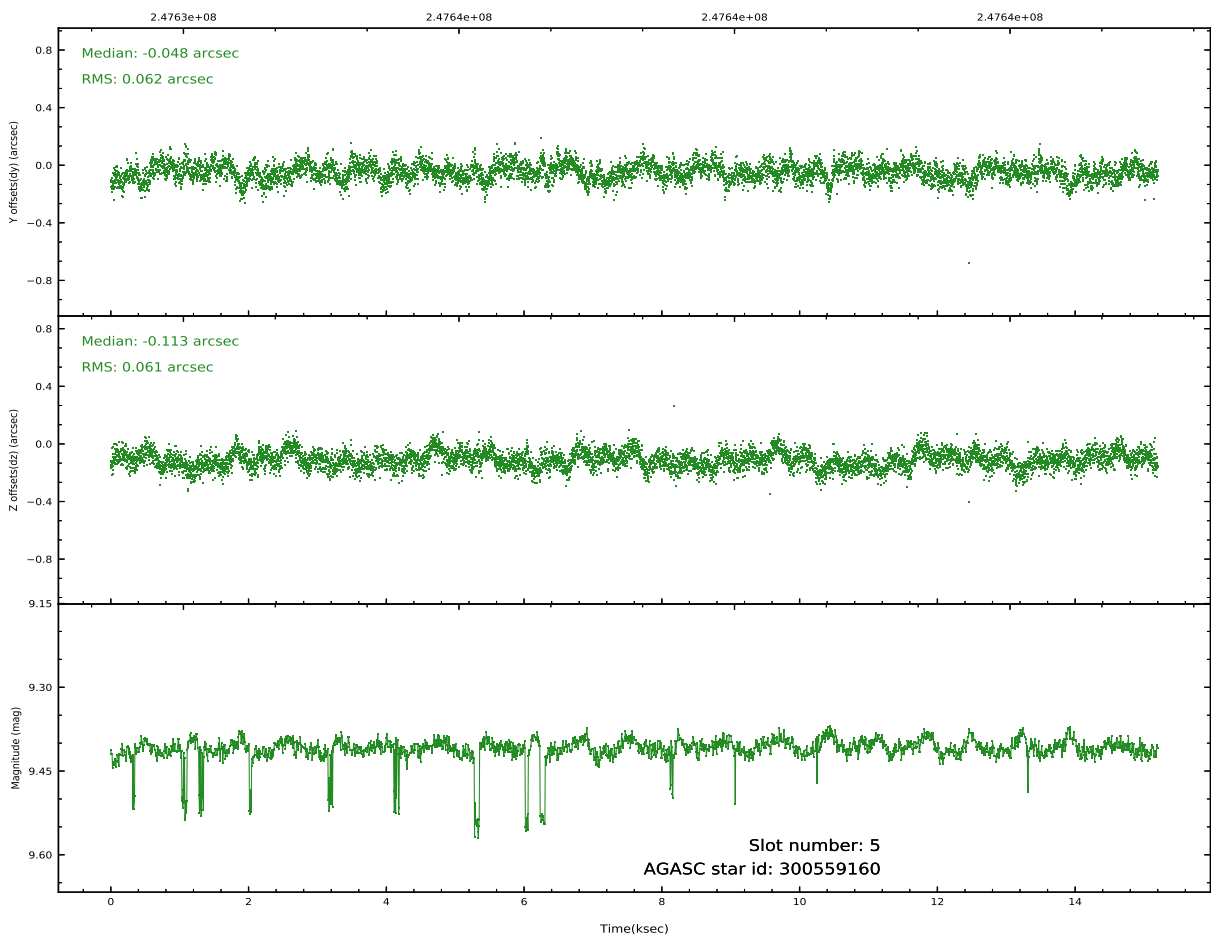
Time (s)



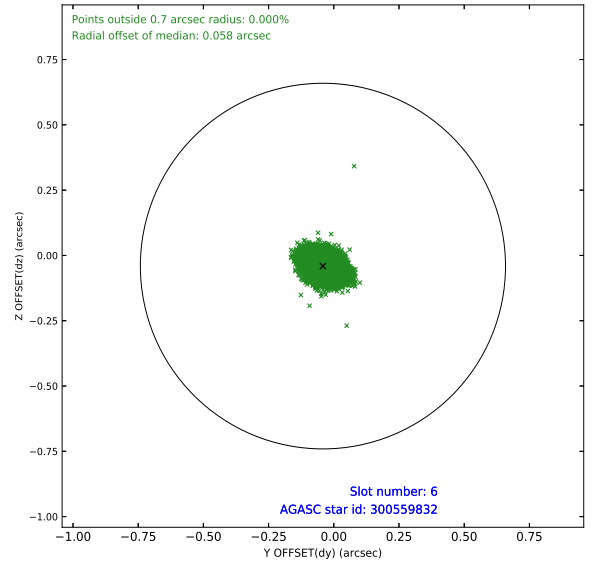
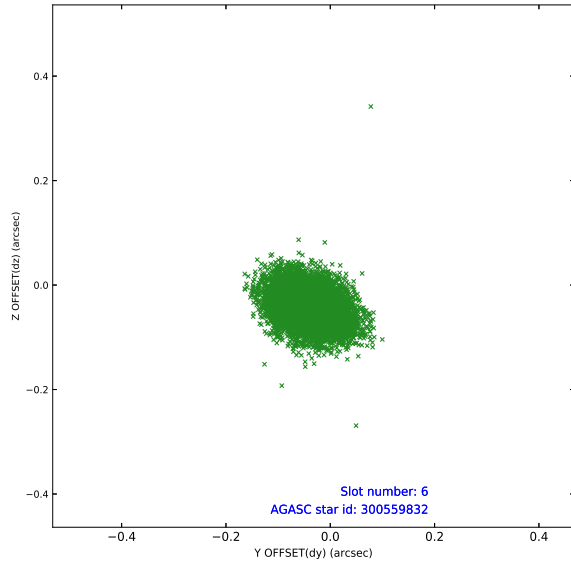
2.4.3 Slot 5



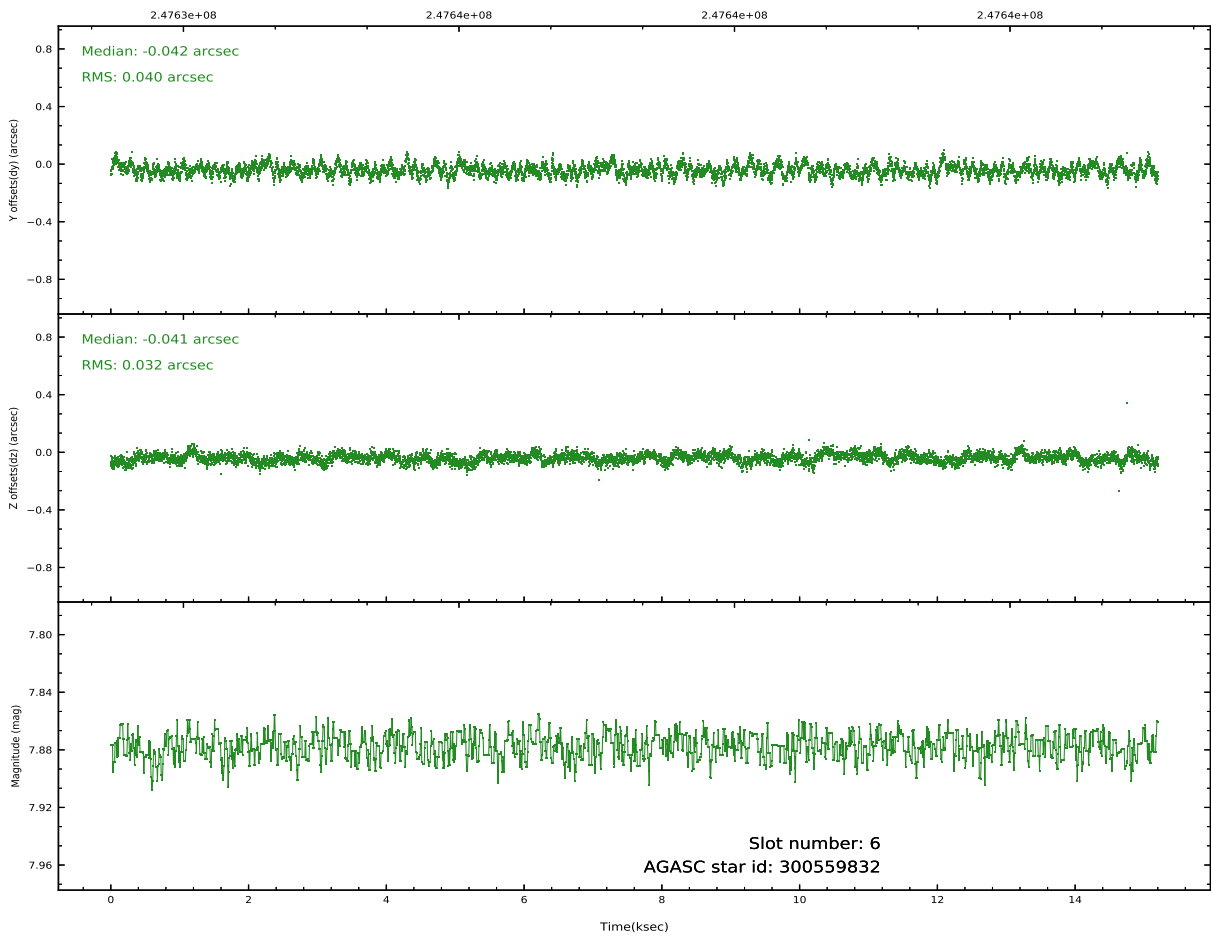
Time (s)



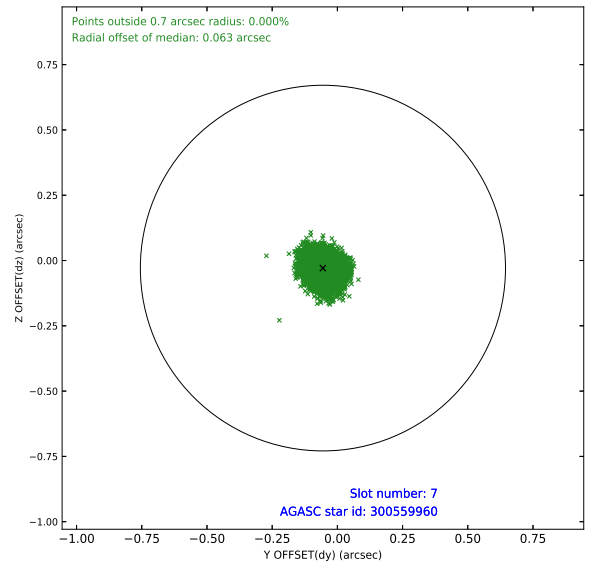
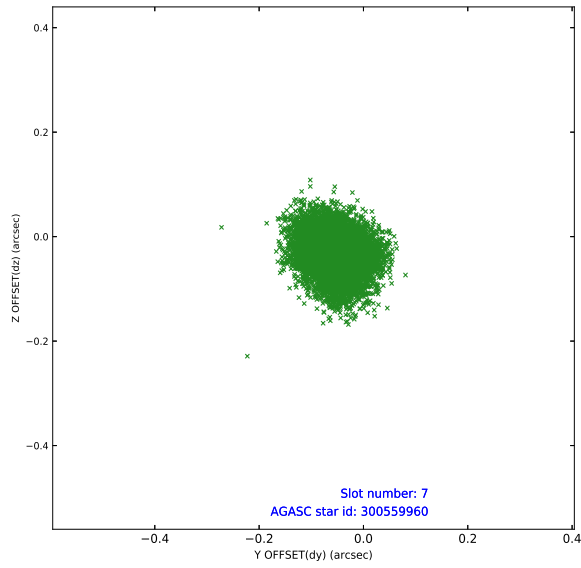
2.4.4 Slot 6



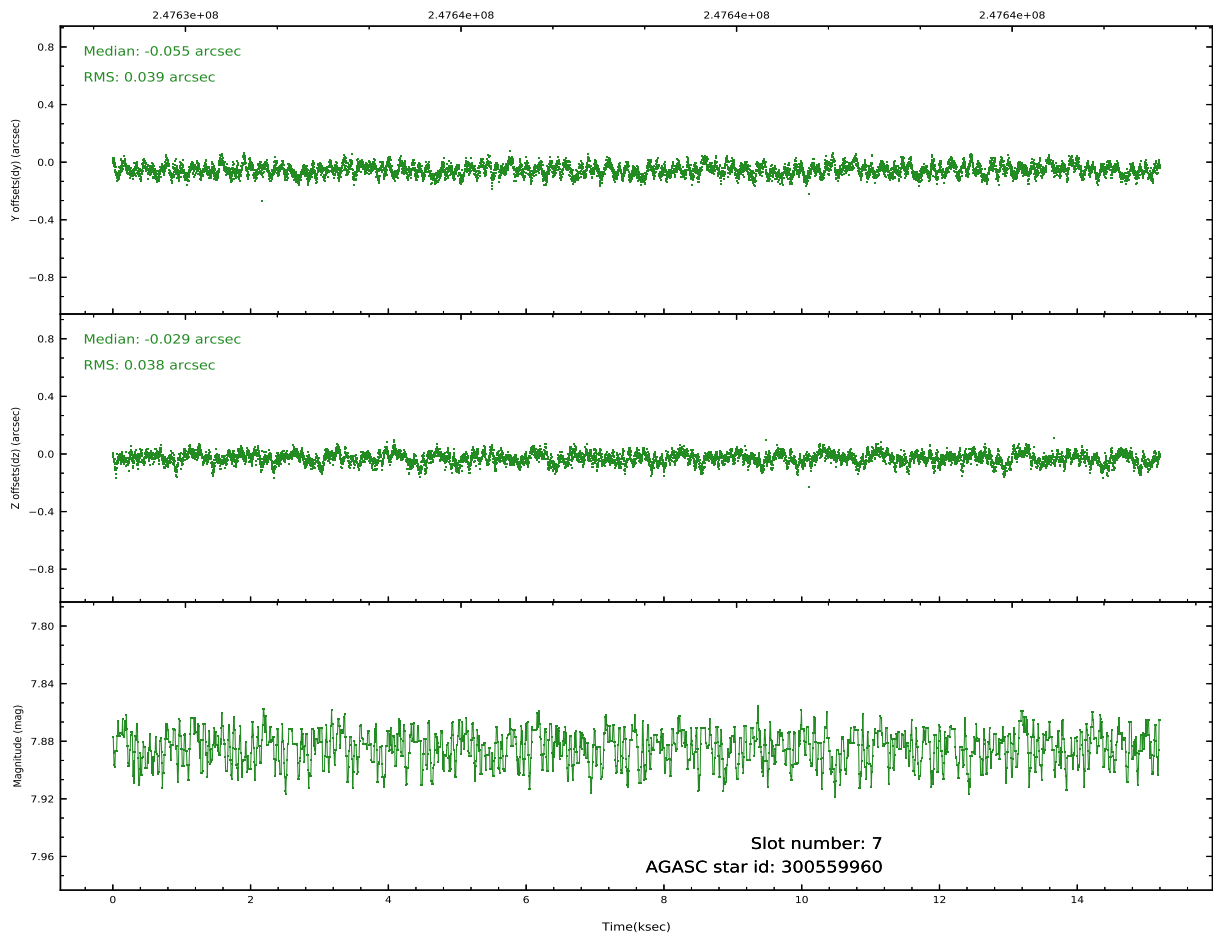
Time (s)



2.4.5 Slot 7

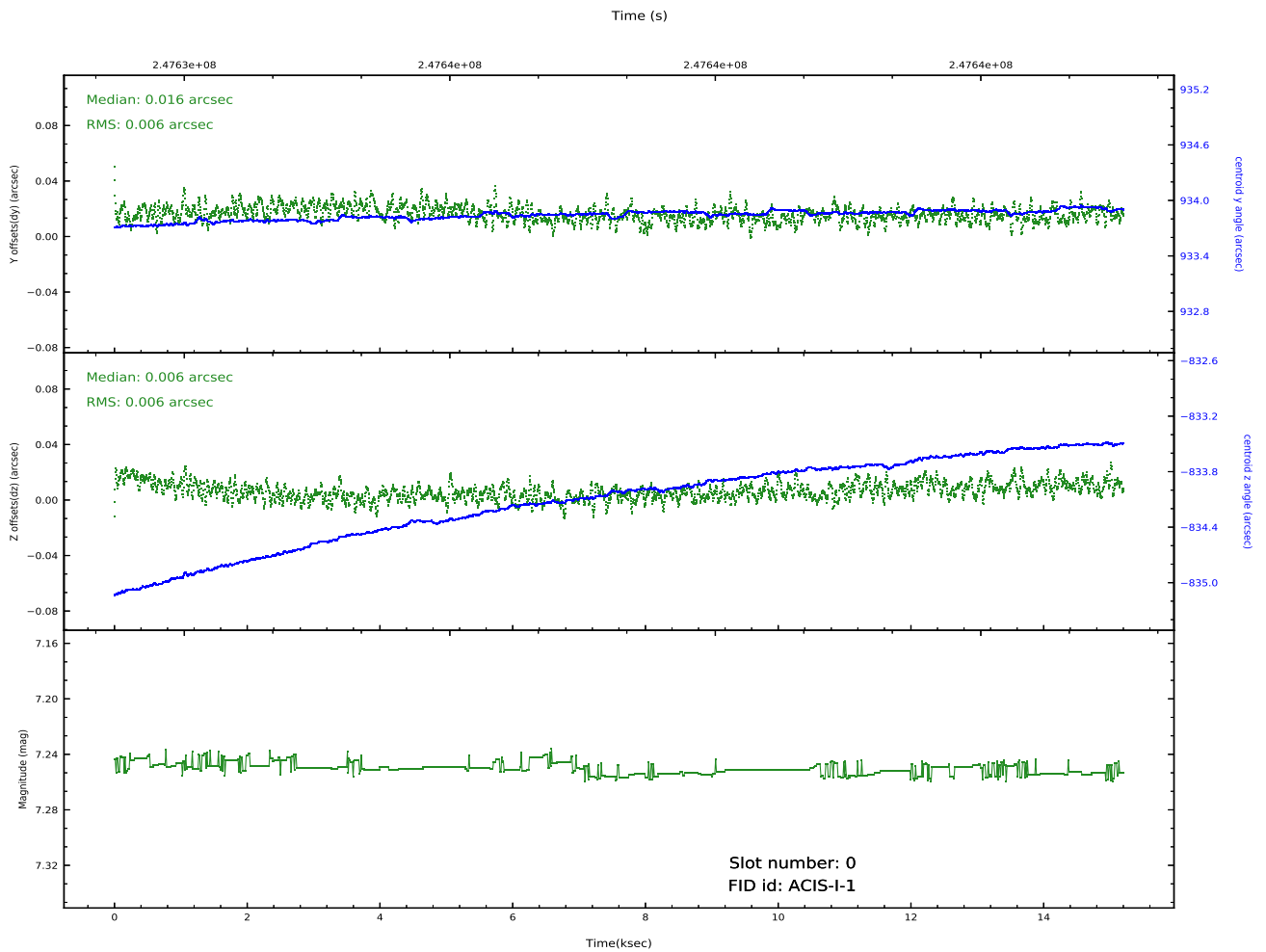
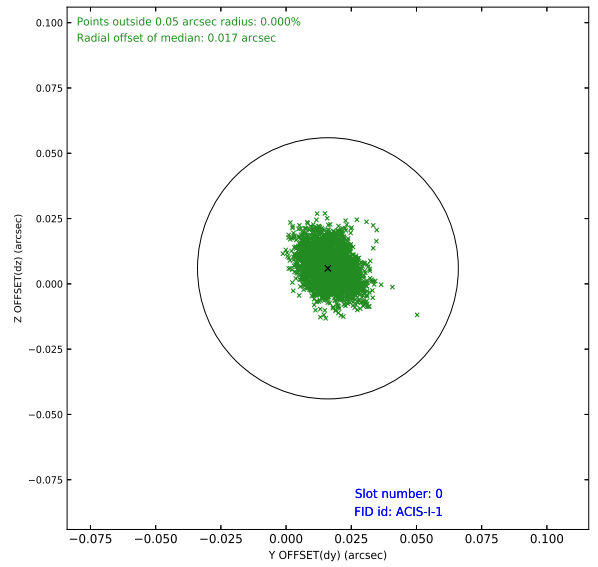
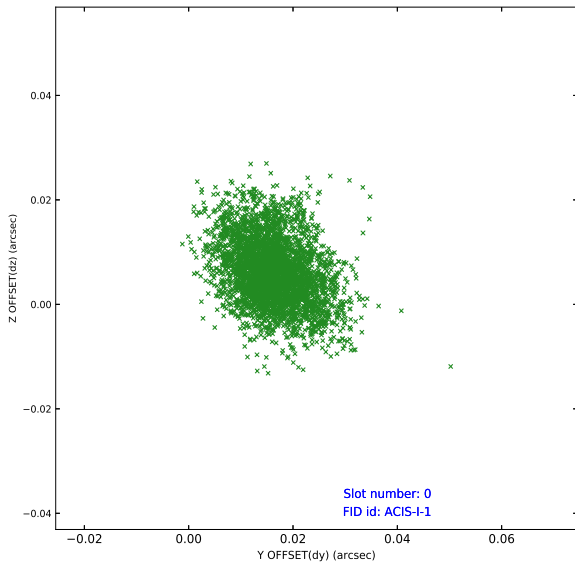


Time (s)

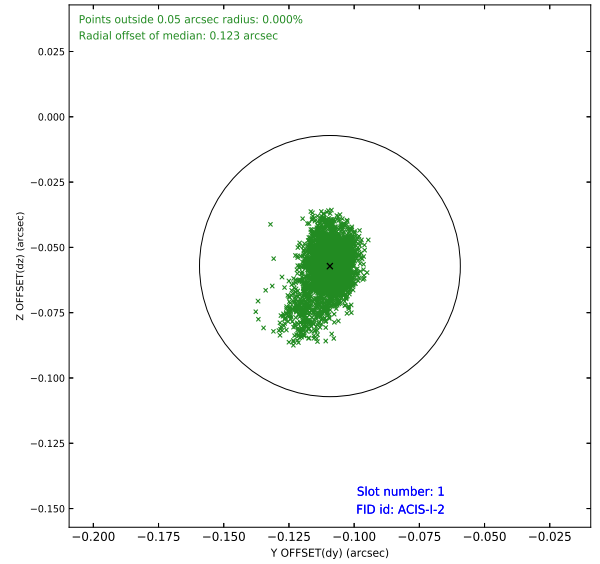
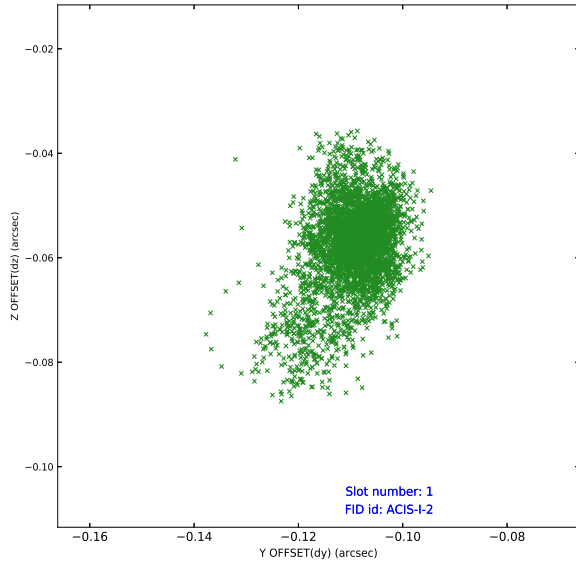


2.5 FID Slots

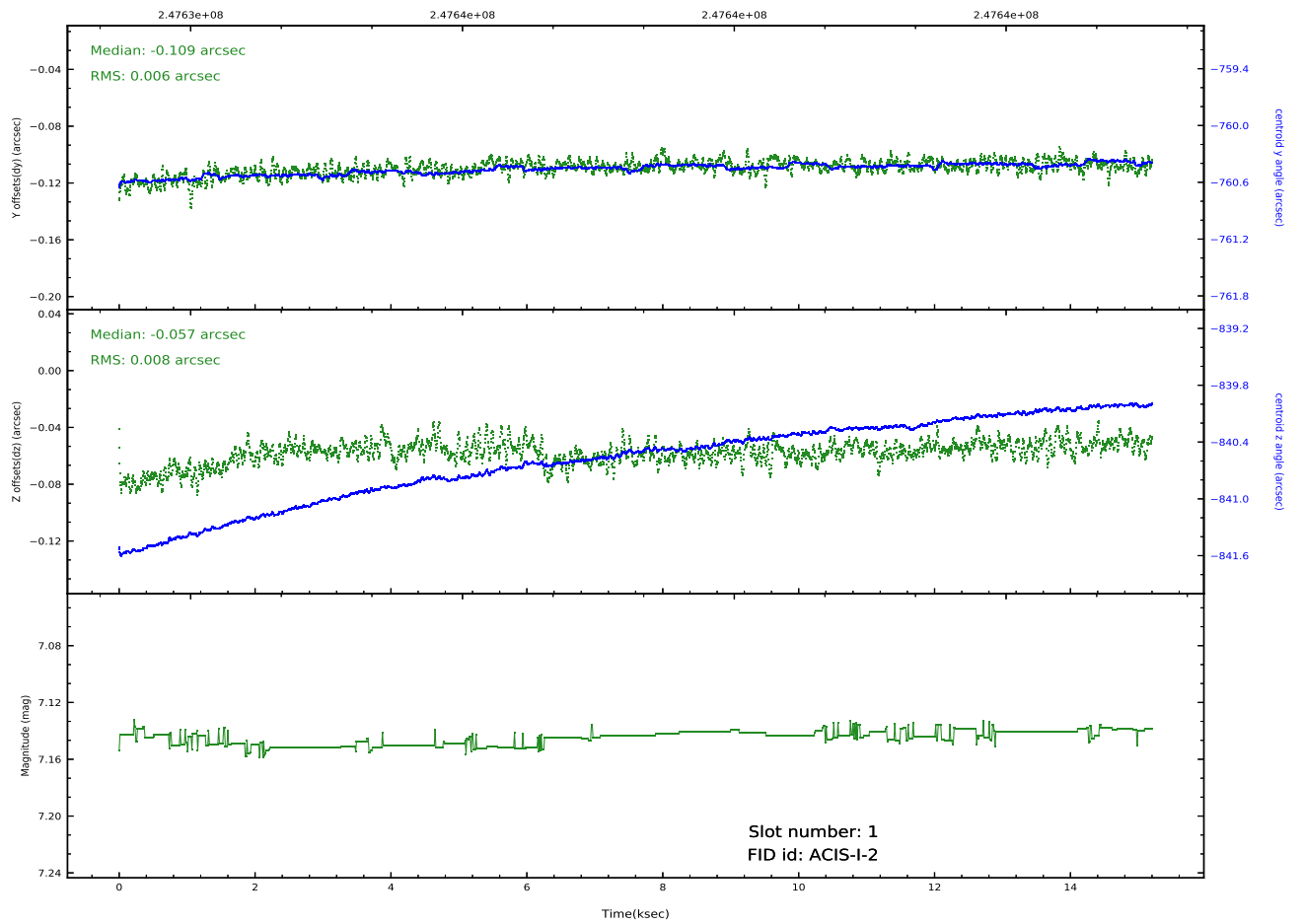
2.5.1 Slot 0



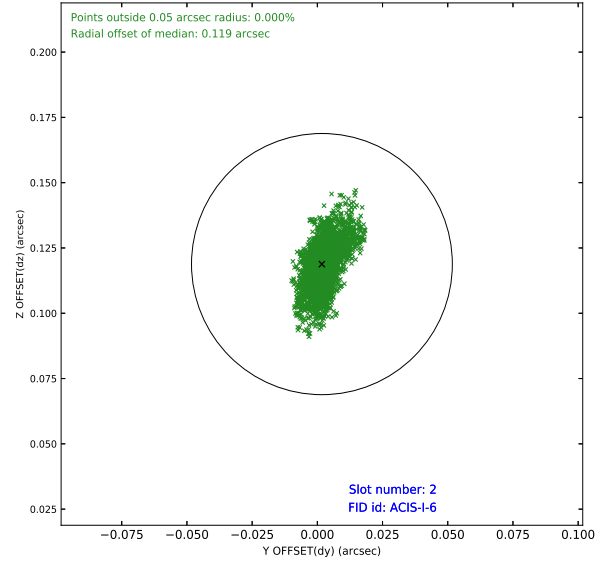
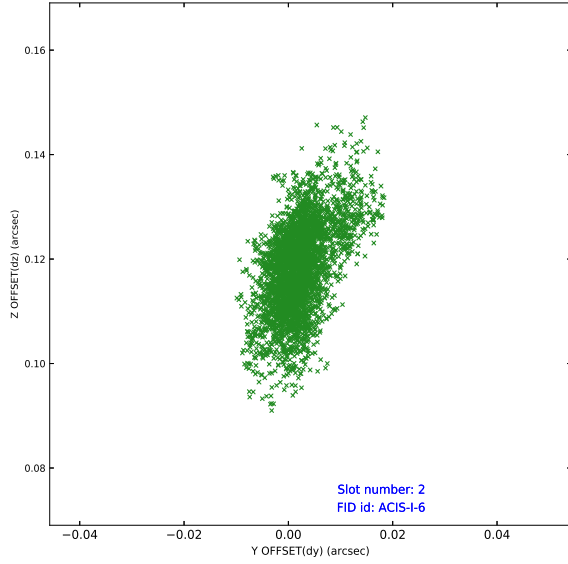
2.5.2 Slot 1



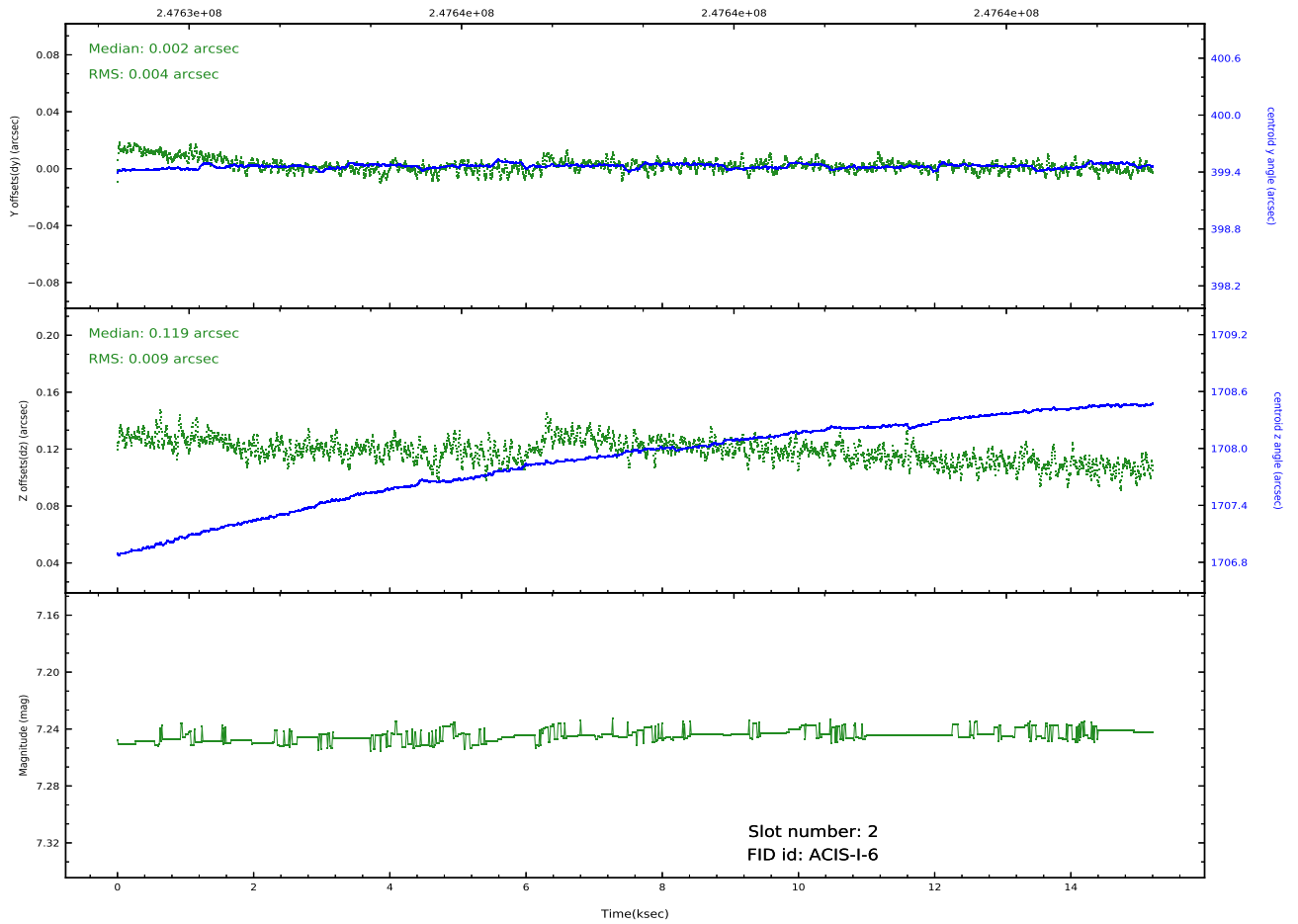
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.01115

A.2 Comments

Roll preference met.