

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6386 - L2 Version 4
Chandra X-Ray Center

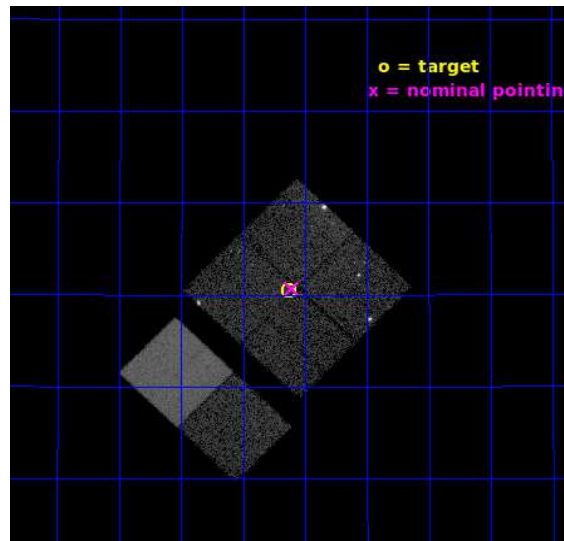
L2 Processing Date : Oct 11 2020

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1 Front

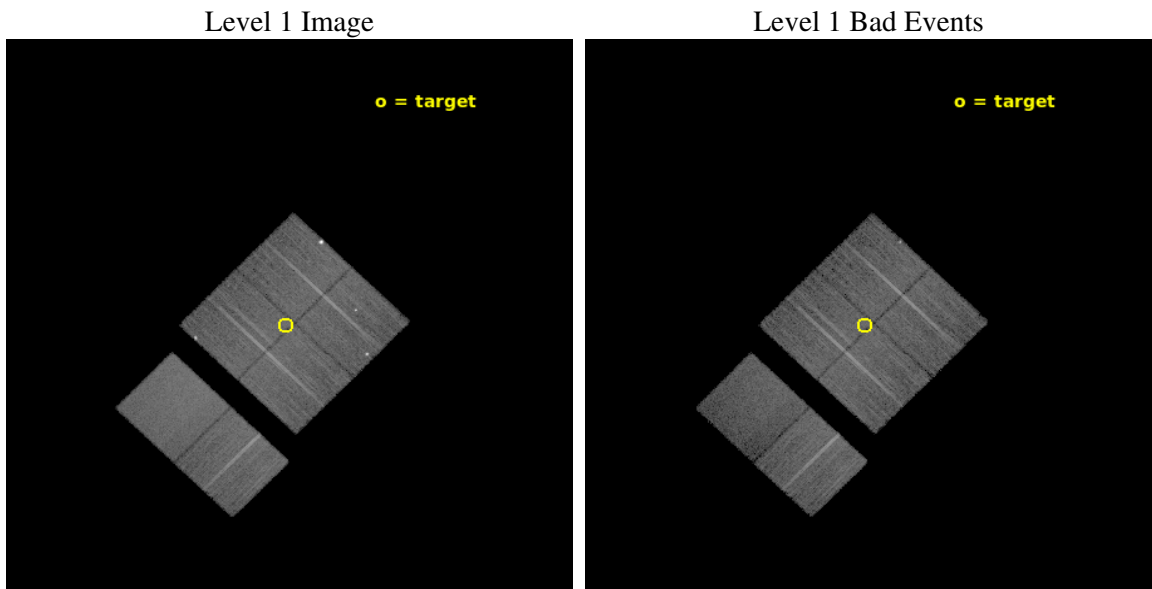
seq_num	600488	Sequence number
obs_id	6386	Observation id
title	The Chandra ACIS Survey of M33 (ChASem33): A Deep Survey of the Nearest Face-on Spiral Galaxy	Proposal title
observer	Manami Sasaki	Principal investigator
object	M33	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.532083	Observer's specified target RA [deg]
dec_targ	30.509111	Observer's specified target Dec [deg]
ra_nom	23.526517885428	Nominal RA [deg]
dec_nom	30.511309256317	Nominal Dec [deg]
roll_nom	224.21110125348	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15048.997026891	Sum of GTIs [s]
livetime	14858.437565118	Livetime [s]
ontime0	15045.6329166	Sum of GTIs [s]
ontime1	15048.914946884	Sum of GTIs [s]
ontime2	15045.714996606	Sum of GTIs [s]
ontime3	15048.997026891	Sum of GTIs [s]
ontime6	15049.079106897	Sum of GTIs [s]
ontime7	15049.038066894	Sum of GTIs [s]
l2events	104463	Number of level 2 events



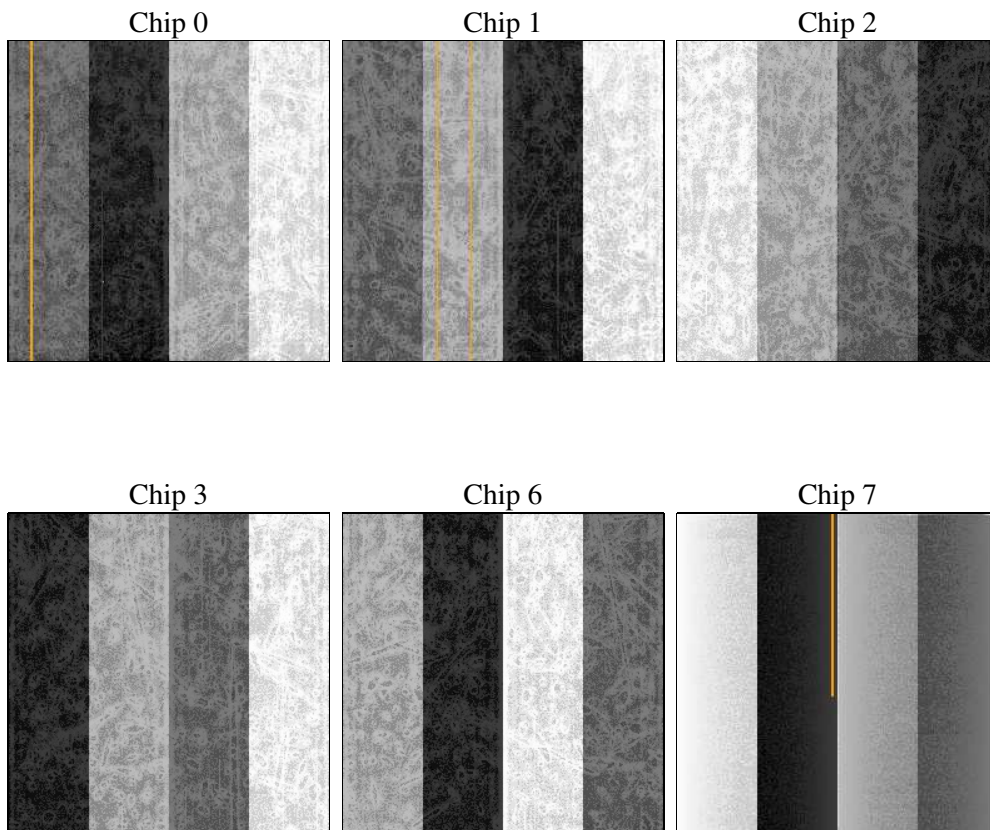
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	15048.997026891	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	15045.6329166	Sum of GTIs [s]
date	2020-10-11T04:50:51	Date and time of file creation	ontime1	15048.914946884	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	15045.714996606	Sum of GTIs [s]
			ontime3	15048.997026891	Sum of GTIs [s]
			ontime6	15049.079106897	Sum of GTIs [s]
			ontime7	15049.038066894	Sum of GTIs [s]
			l1events	605027	Number of level 1 events

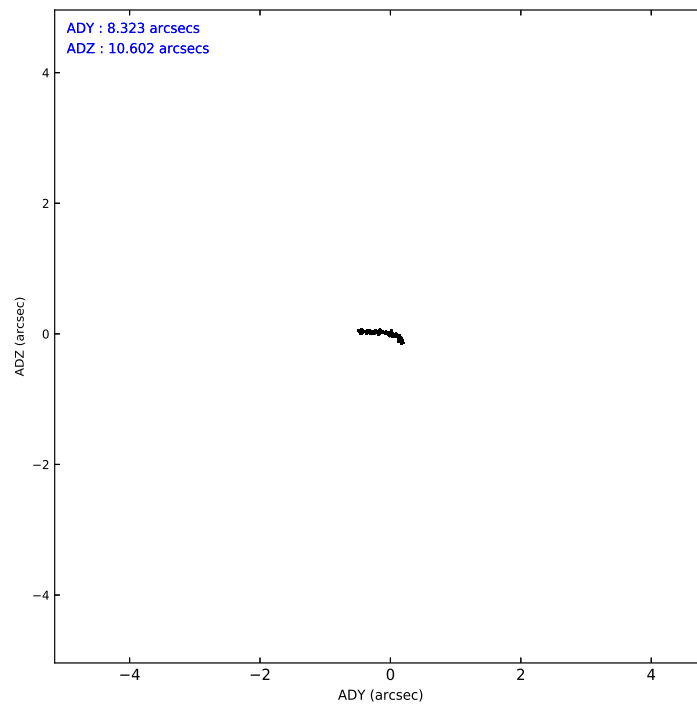
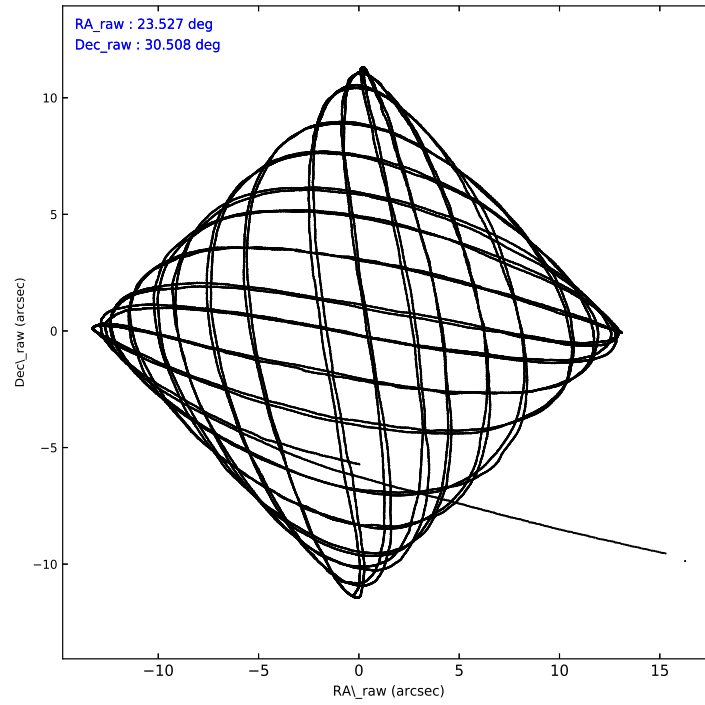
2.1.4 Events

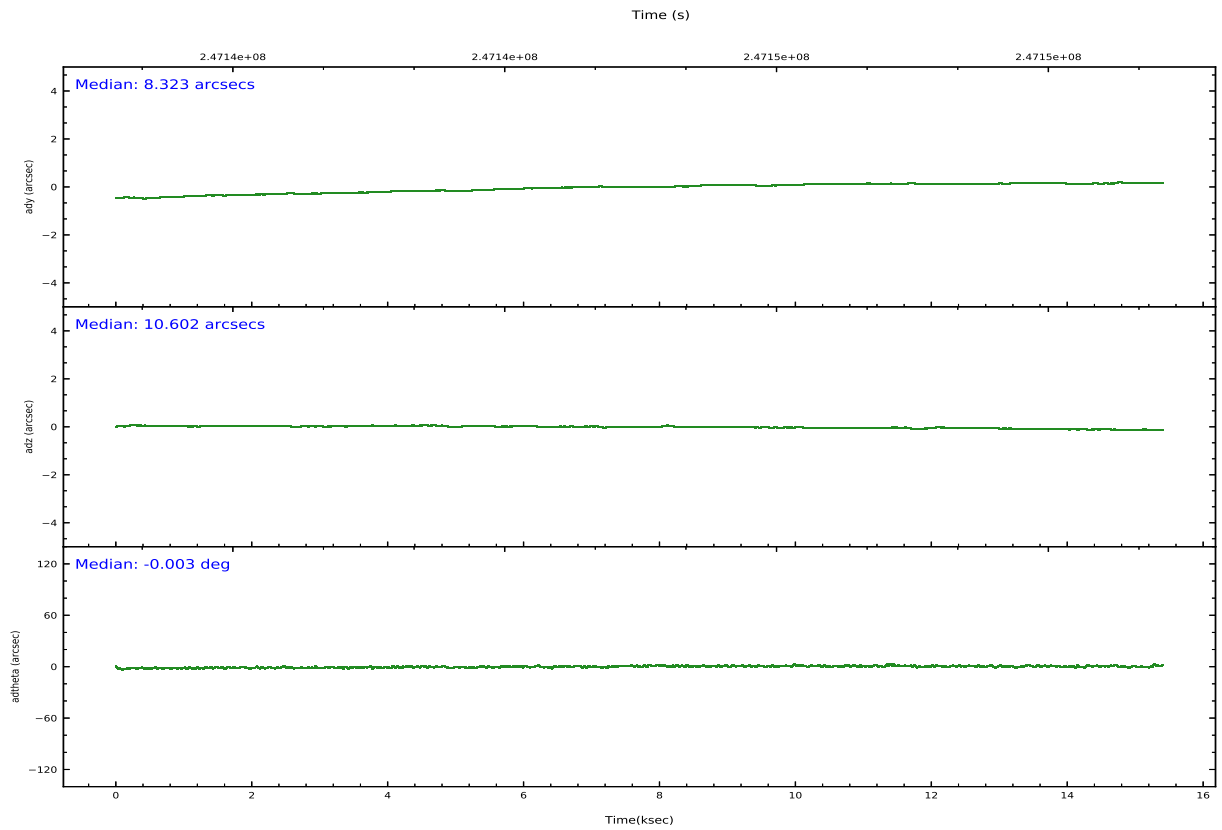
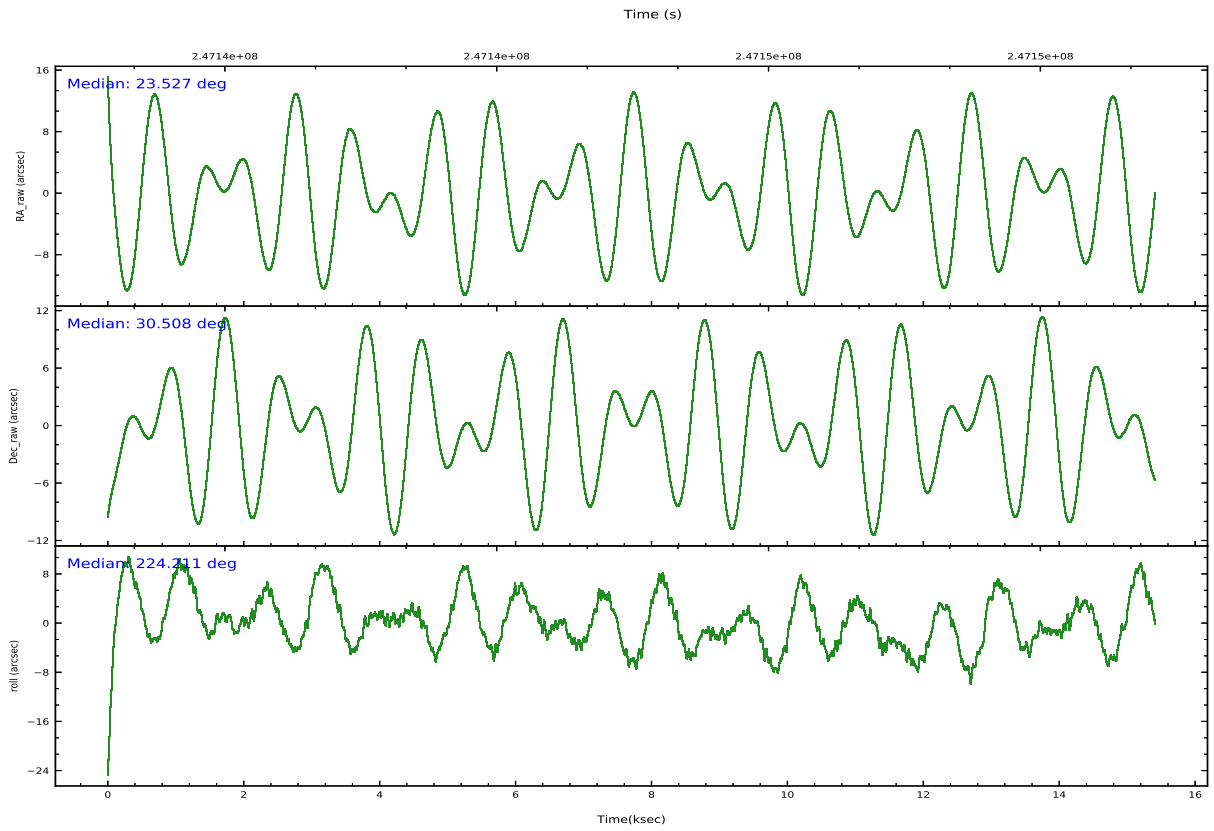
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	95864	106157	101935	95165	98466	107440	grade 0 events	7296	15121	3289	4976	3334	3837
rejected events	81489	81110	92777	83913	88658	59659		7%	14%	3%	5%	3%	3%
rejected %	85%	76%	91%	88%	90%	55%	grade 1 events	72	253	63	77	49	100
								0%	0%	0%	0%	0%	0%
							grade 2 events	2640	4003	2223	2163	2196	9526
								2%	3%	2%	2%	2%	8%
							grade 3 events	1272	1696	948	1091	1033	4443
								1%	1%	0%	1%	1%	4%
							grade 4 events	1191	1611	1051	1173	1084	4466
								1%	1%	1%	1%	1%	4%
							grade 5 events	3390	3796	3130	3909	4008	11469
								3%	3%	3%	4%	4%	10%
							grade 6 events	1982	2632	1651	1857	2165	25530
								2%	2%	1%	1%	2%	23%
							grade 7 events	78021	77045	89580	79919	84597	48069
								81%	72%	87%	83%	85%	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	23.526517885428	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.533805	30.511309256317	Alternating exposures requested	N	N
[deg] Pointing Roll	223.998215	224.21110125348	[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)	247138690.184000	247137513.23241			
Observation start date	2005-10-31T09:37:06	2005-10-31T09:18:33			
[s] Observation end time (MET)	247153690.184000	247154394.47069			
Observation end date	2005-10-31T13:47:06	2005-10-31T13:59:54			
Read mode	TIMED	TIMED			

2.3 Aspect





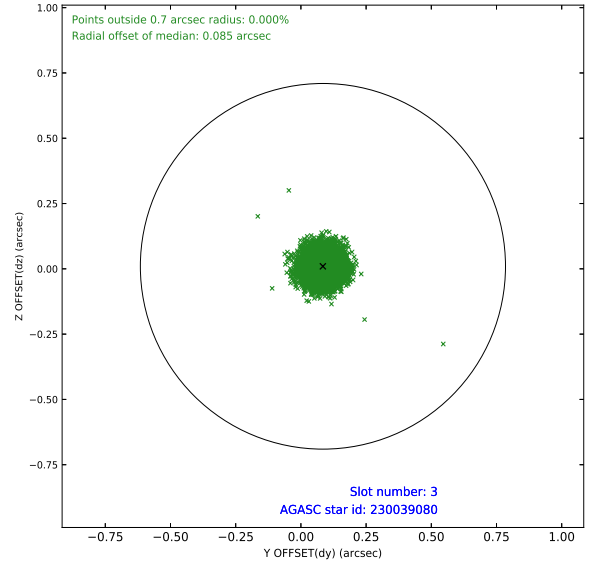
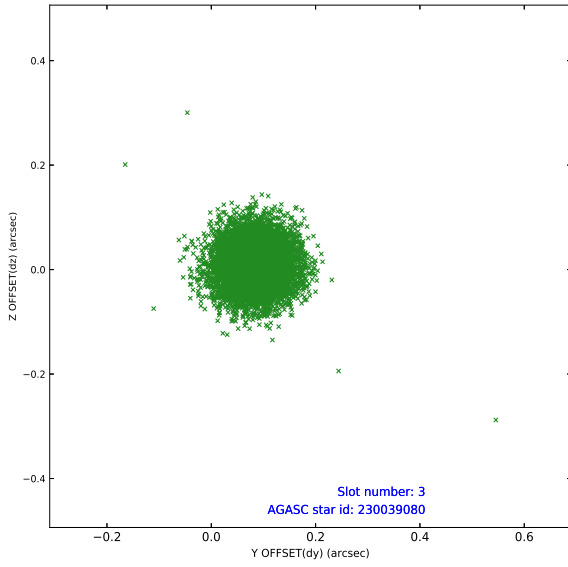
Slot Statistics

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	7.24	3759	1.000	0.017	0.017	0.012	0.018	0.000000	0.000000	931.41	-834
1	FID		ACIS-I-2	7.14	3758	1.000	-0.123	-0.080	0.010	0.016	0.000000	0.000000	-762.66	-840
2	FID		ACIS-I-6	7.25	3759	1.000	0.015	0.131	0.011	0.019	0.000000	0.000000	396.86	1707
3	GUIDE	used	230039080	8.69	7519	1.000	0.084	0.010	0.058	0.095	23.320866	29.887774	2097.37	1207
4	GUIDE	used	300553080	9.07	7515	1.000	0.053	0.161	0.078	0.126	23.777101	30.773227	-1136.26	-101
5	GUIDE	used	300559160	9.40	7497	1.000	-0.043	-0.101	0.092	0.150	24.161026	30.632205	-1643.55	1087
6	GUIDE	used	300559832	7.87	7517	1.000	-0.030	-0.052	0.055	0.088	24.407732	30.552794	-2000.00	1821
7	GUIDE	used	300559960	7.88	7518	1.000	-0.065	-0.014	0.059	0.094	22.944463	30.624765	1086.27	-1509

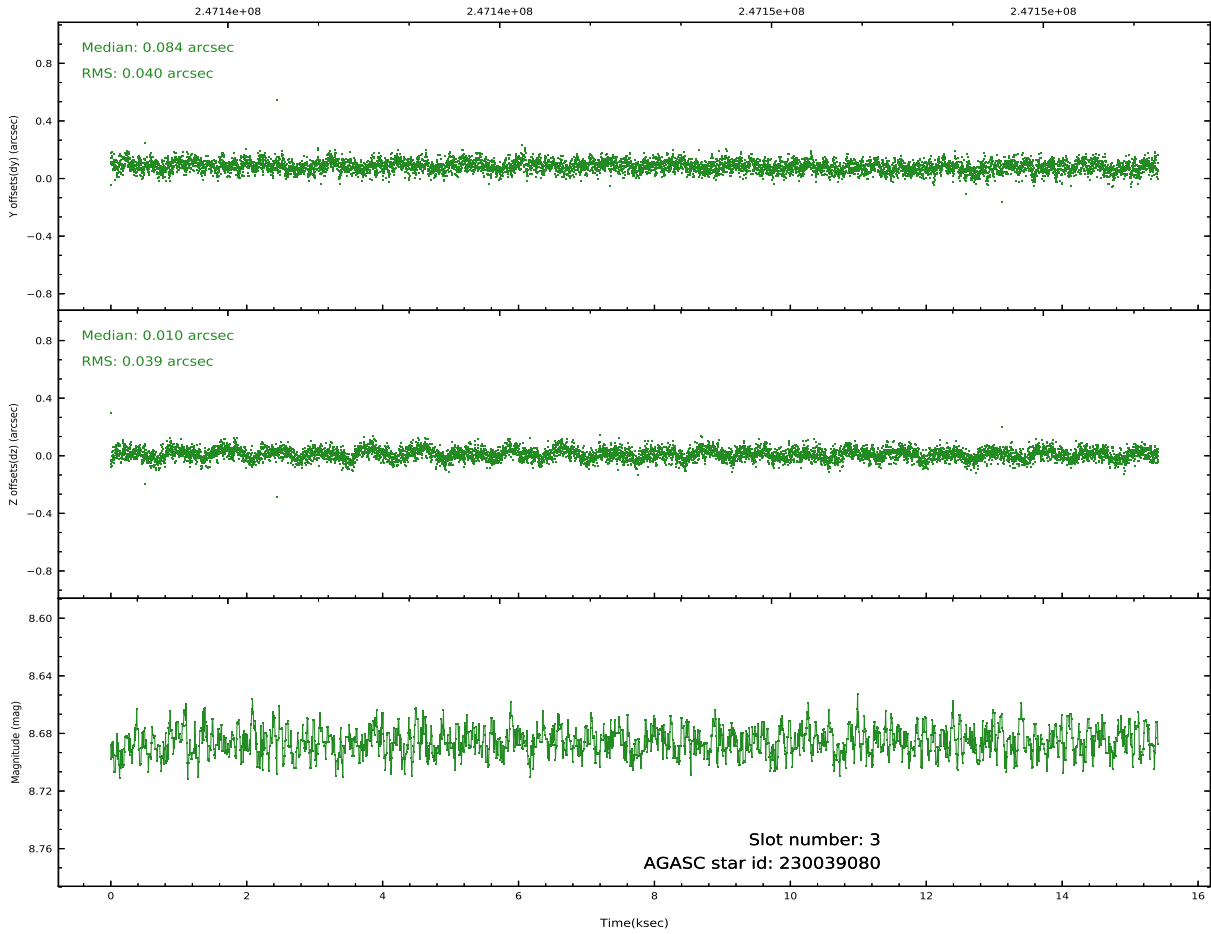
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2.4 Star Slots

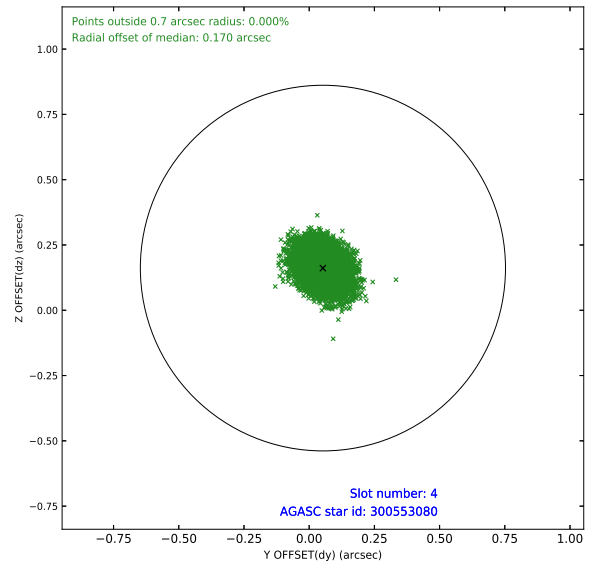
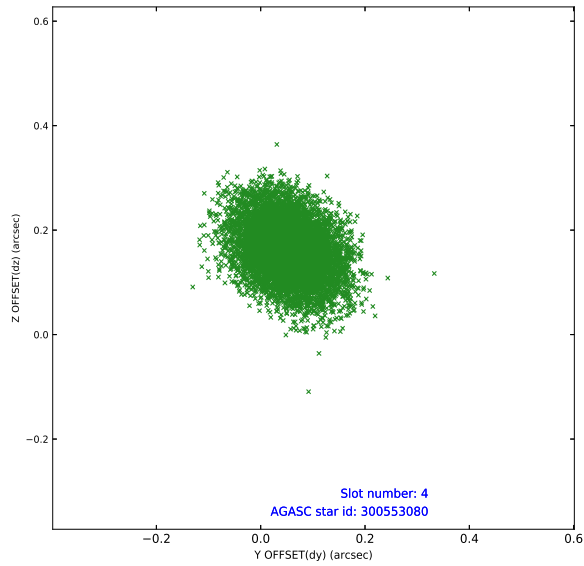
2.4.1 Slot 3



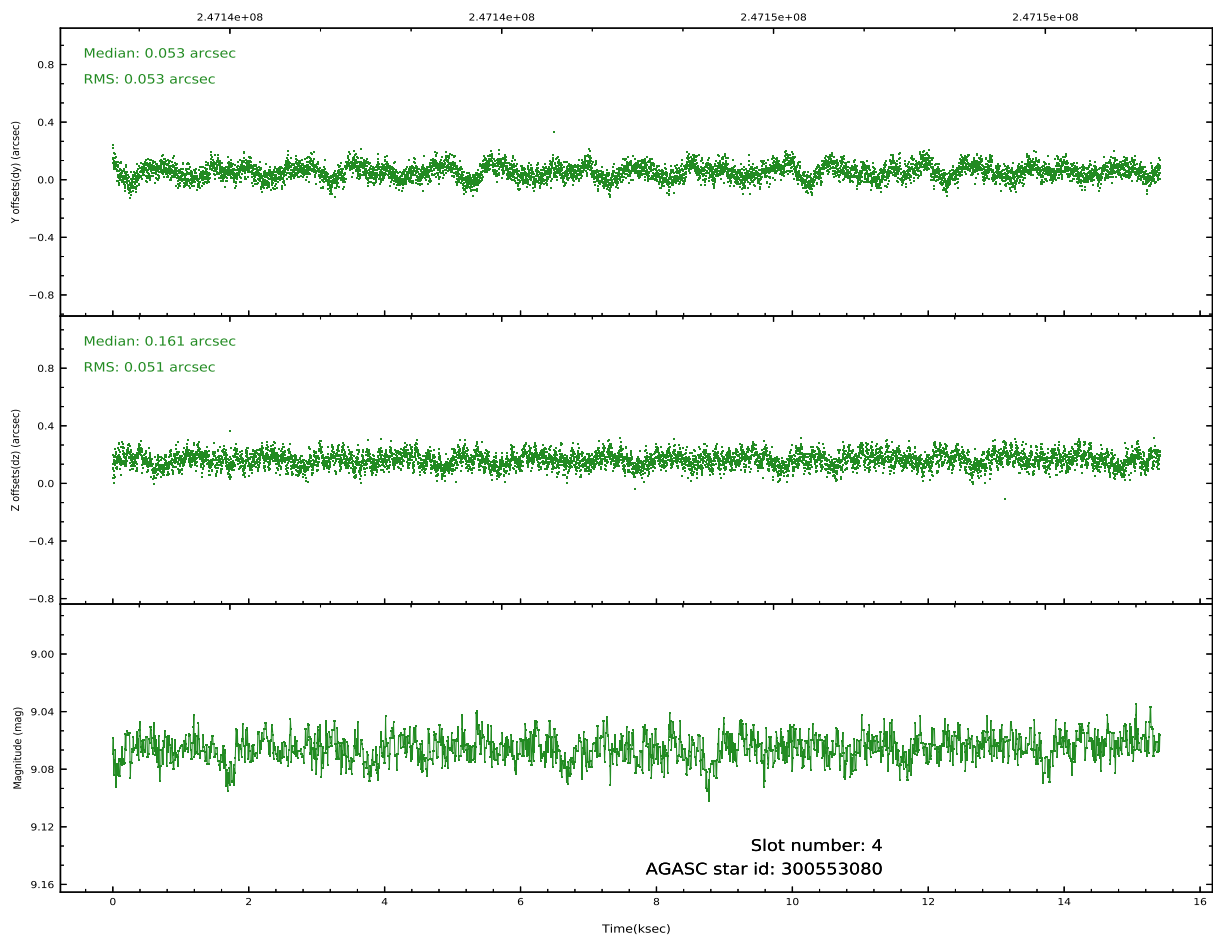
Time (s)



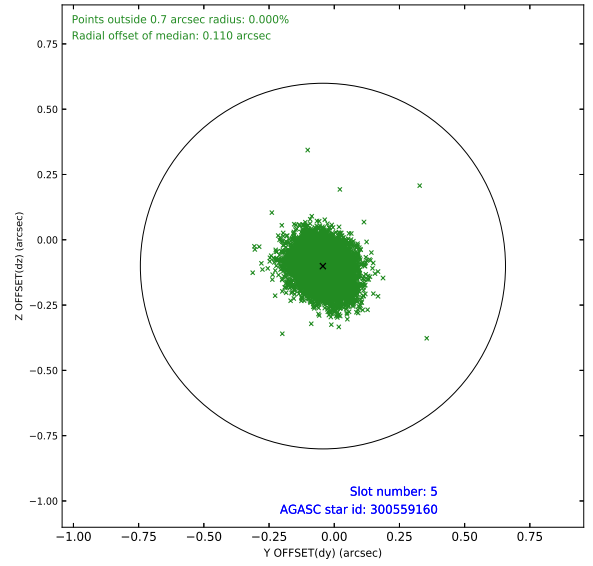
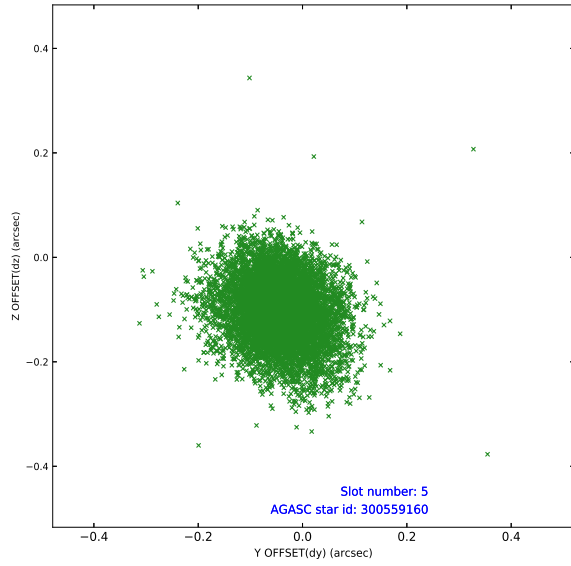
2.4.2 Slot 4



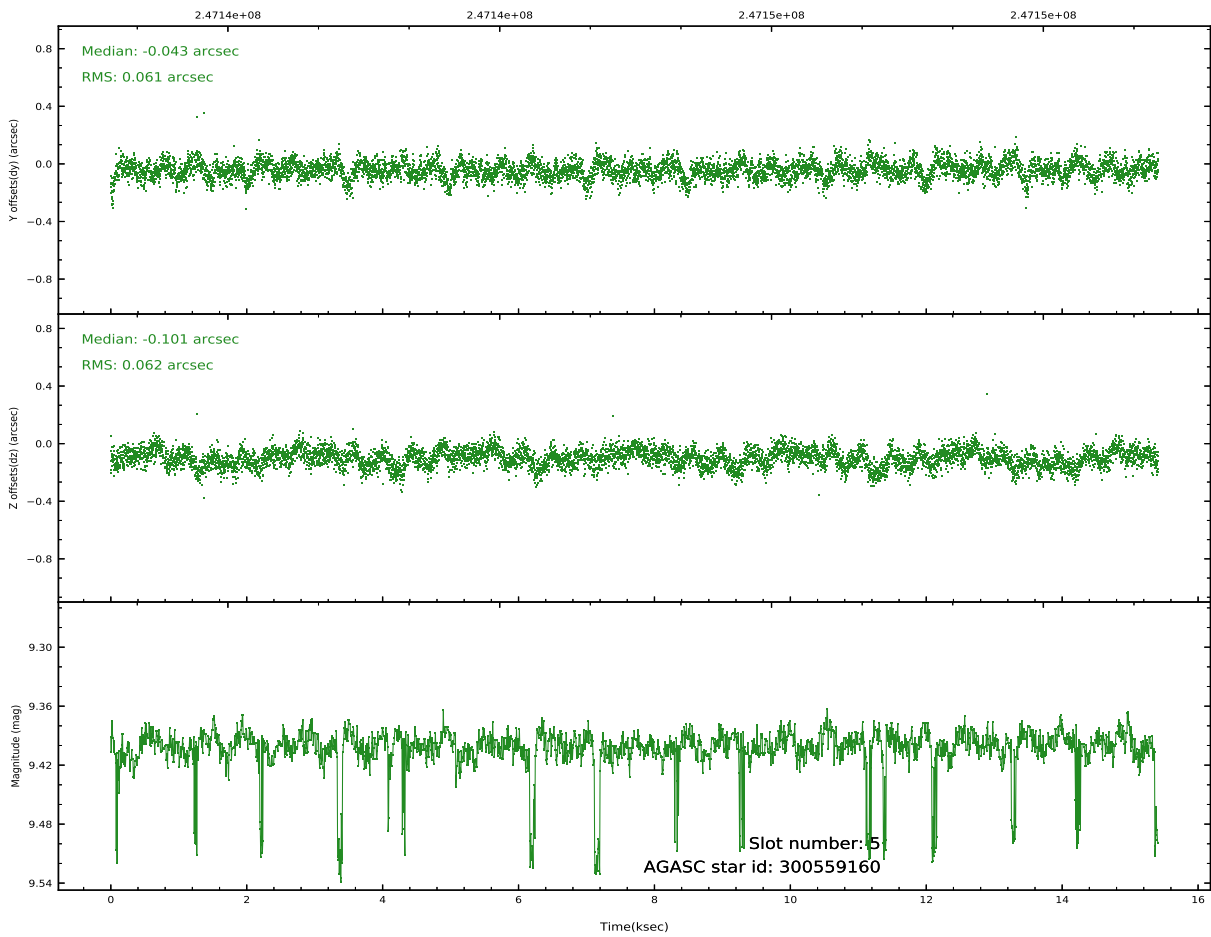
Time (s)



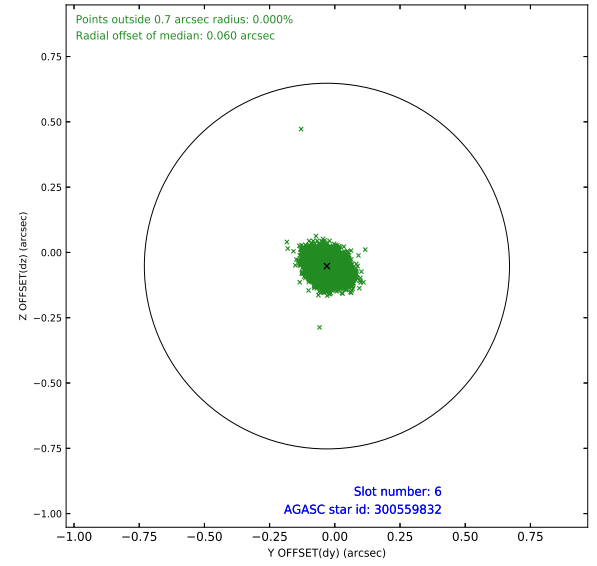
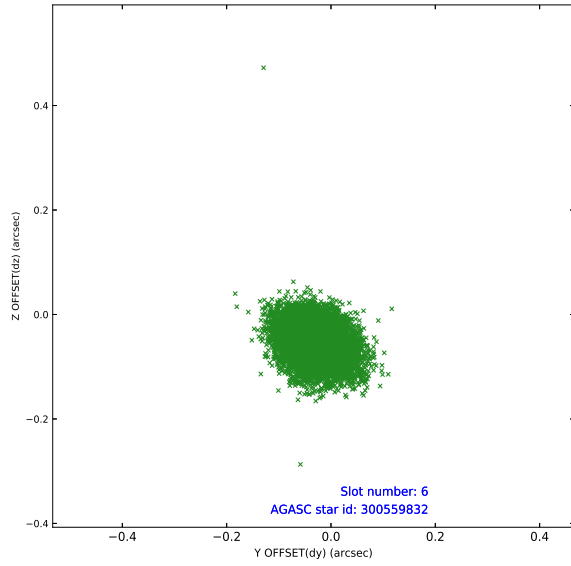
2.4.3 Slot 5



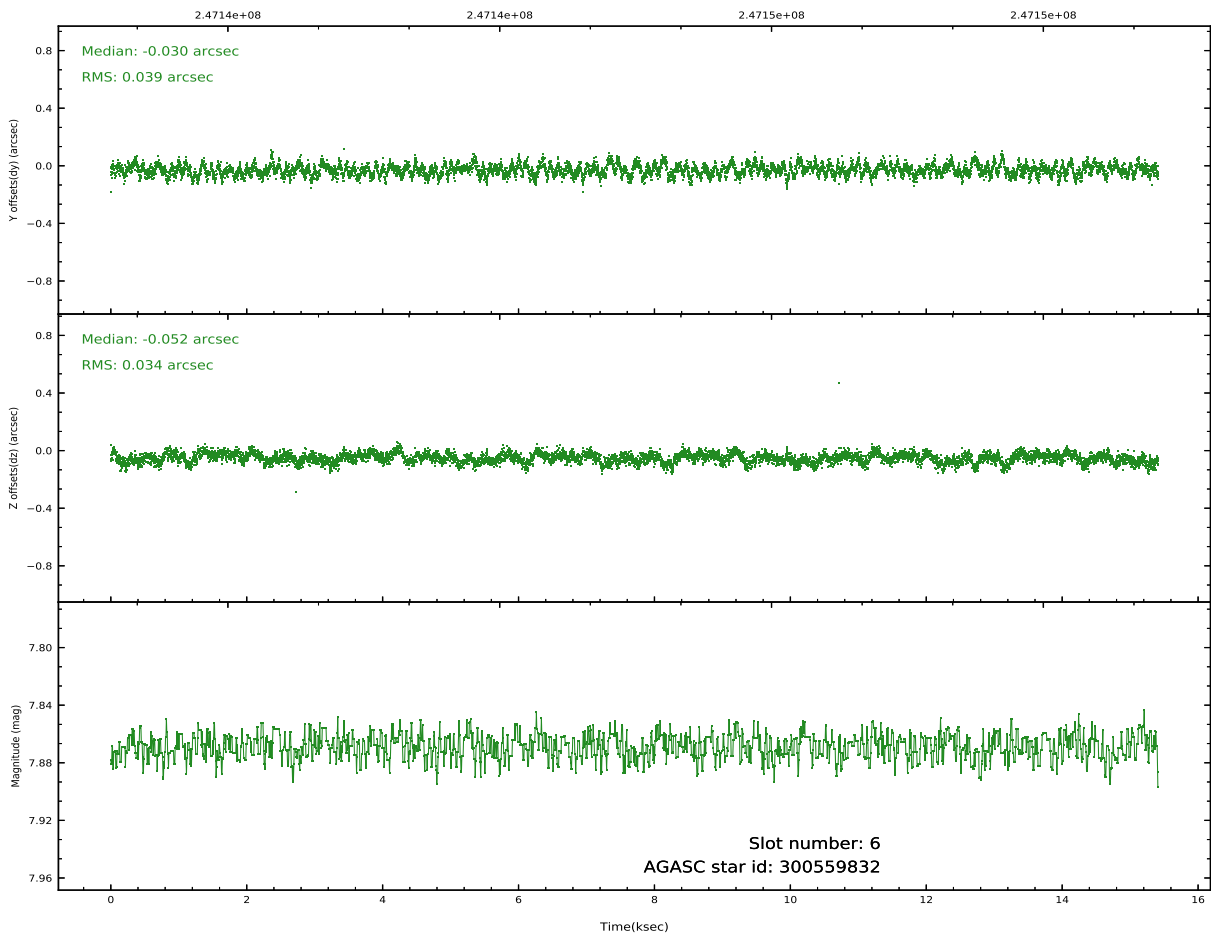
Time (s)



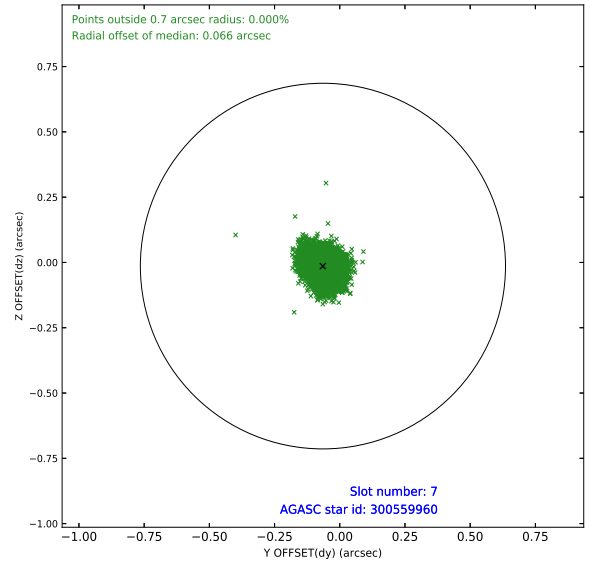
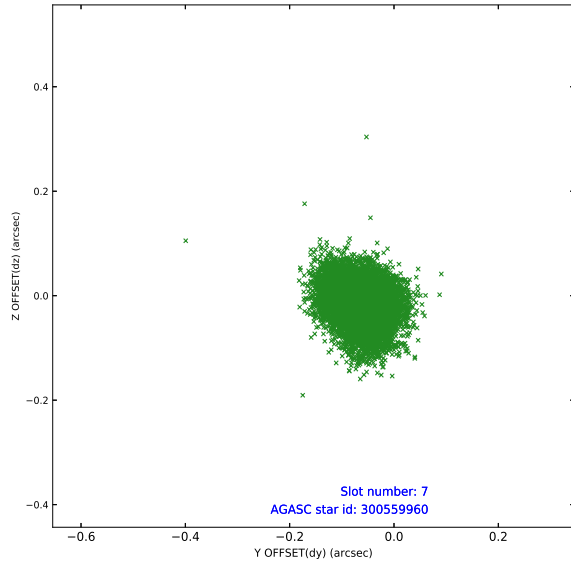
2.4.4 Slot 6



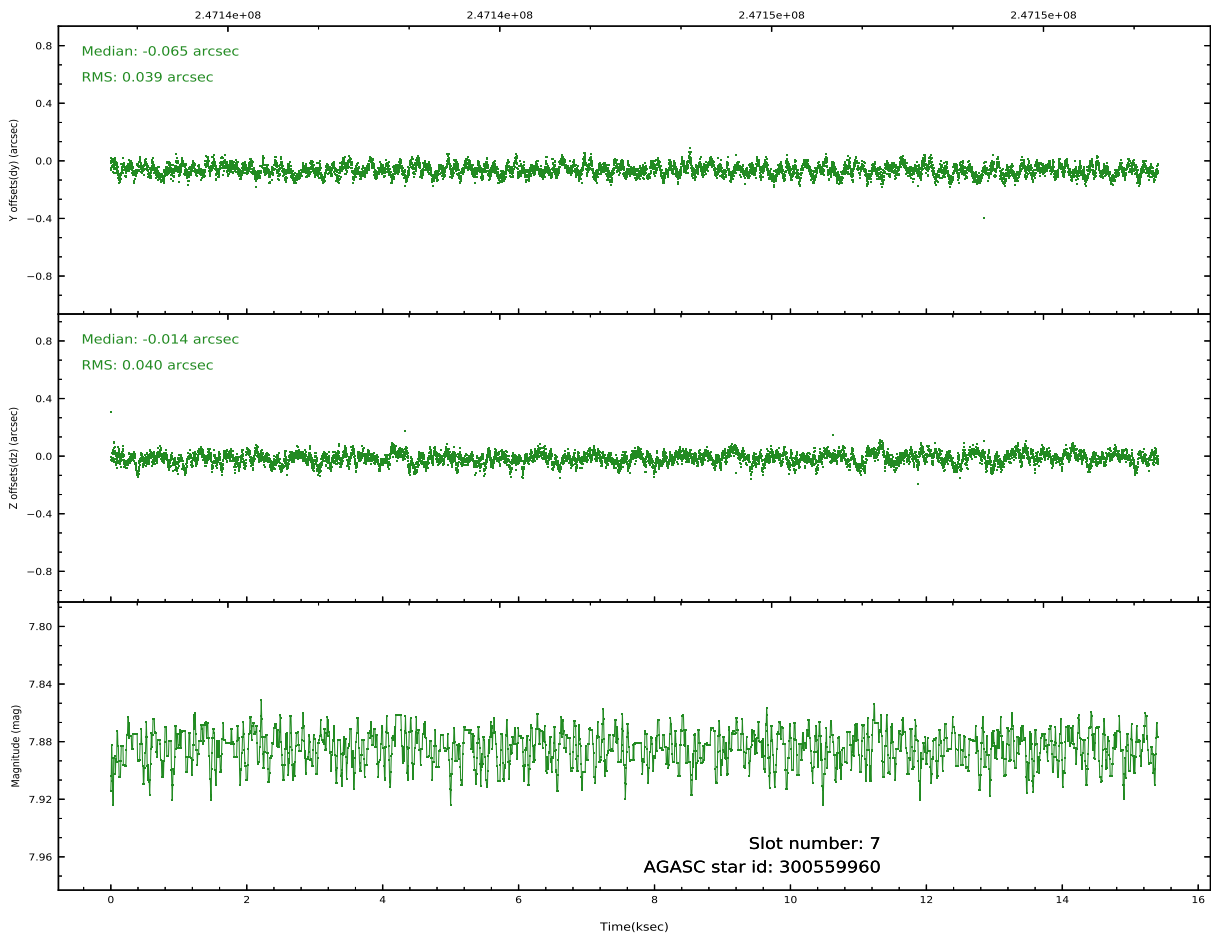
Time (s)



2.4.5 Slot 7

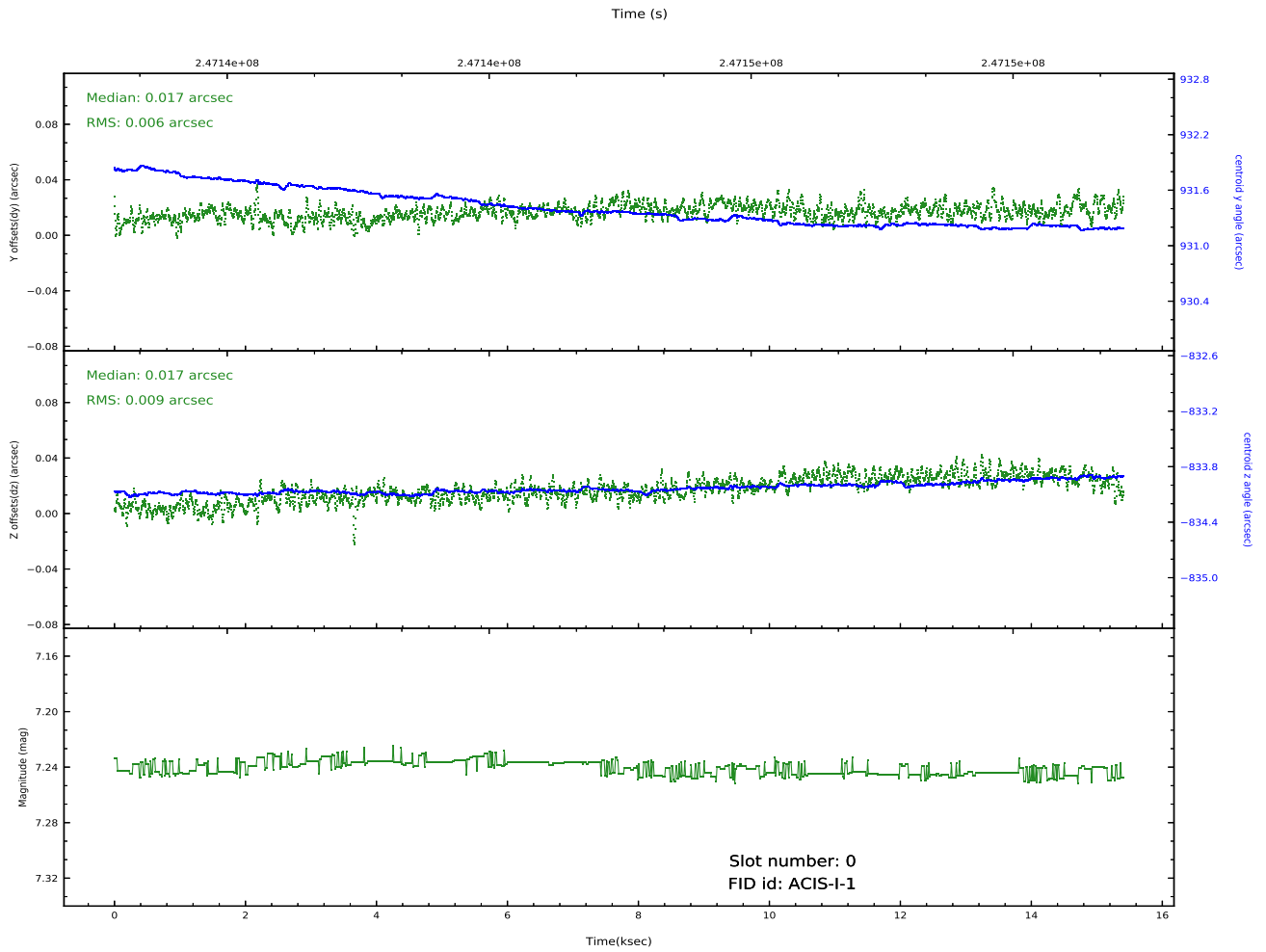
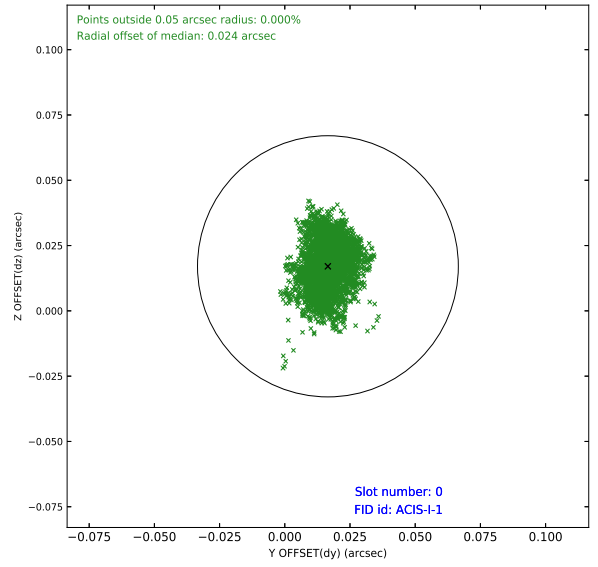
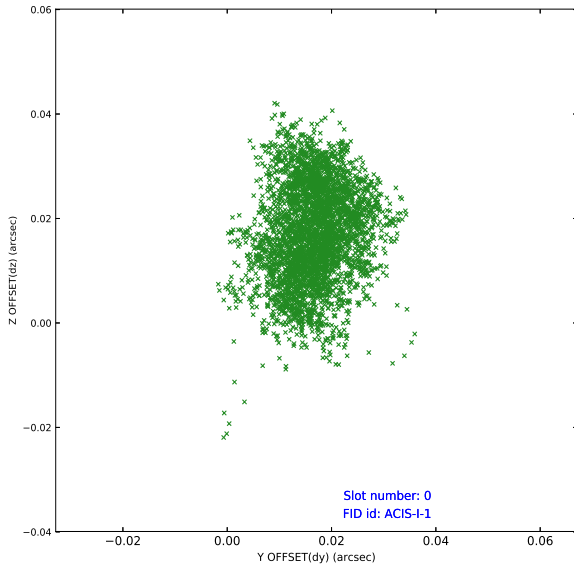


Time (s)

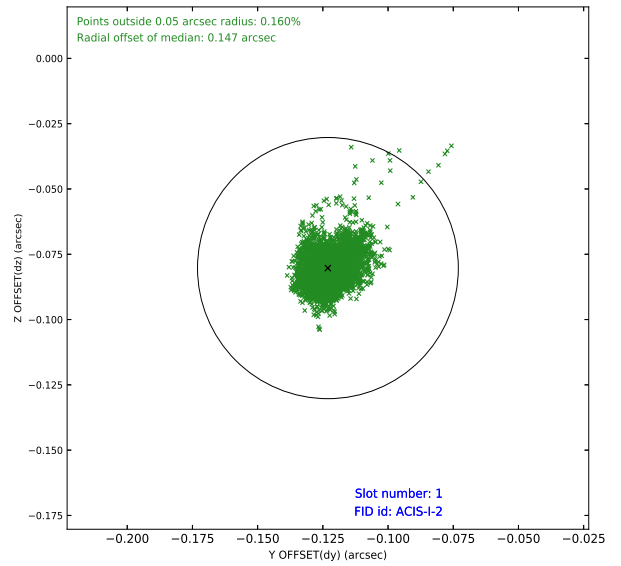
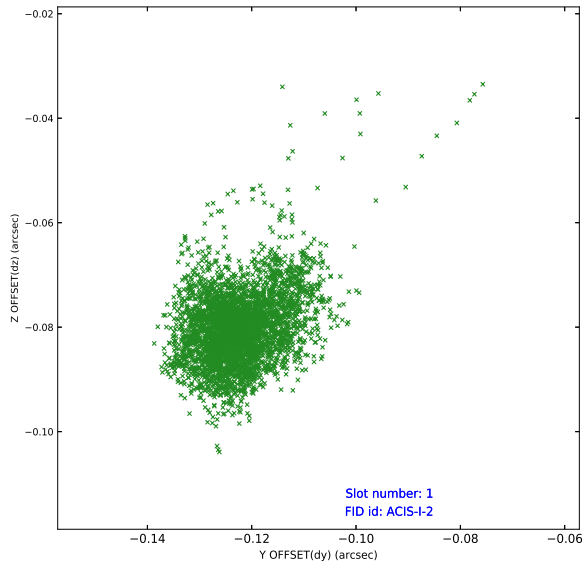


2.5 FID Slots

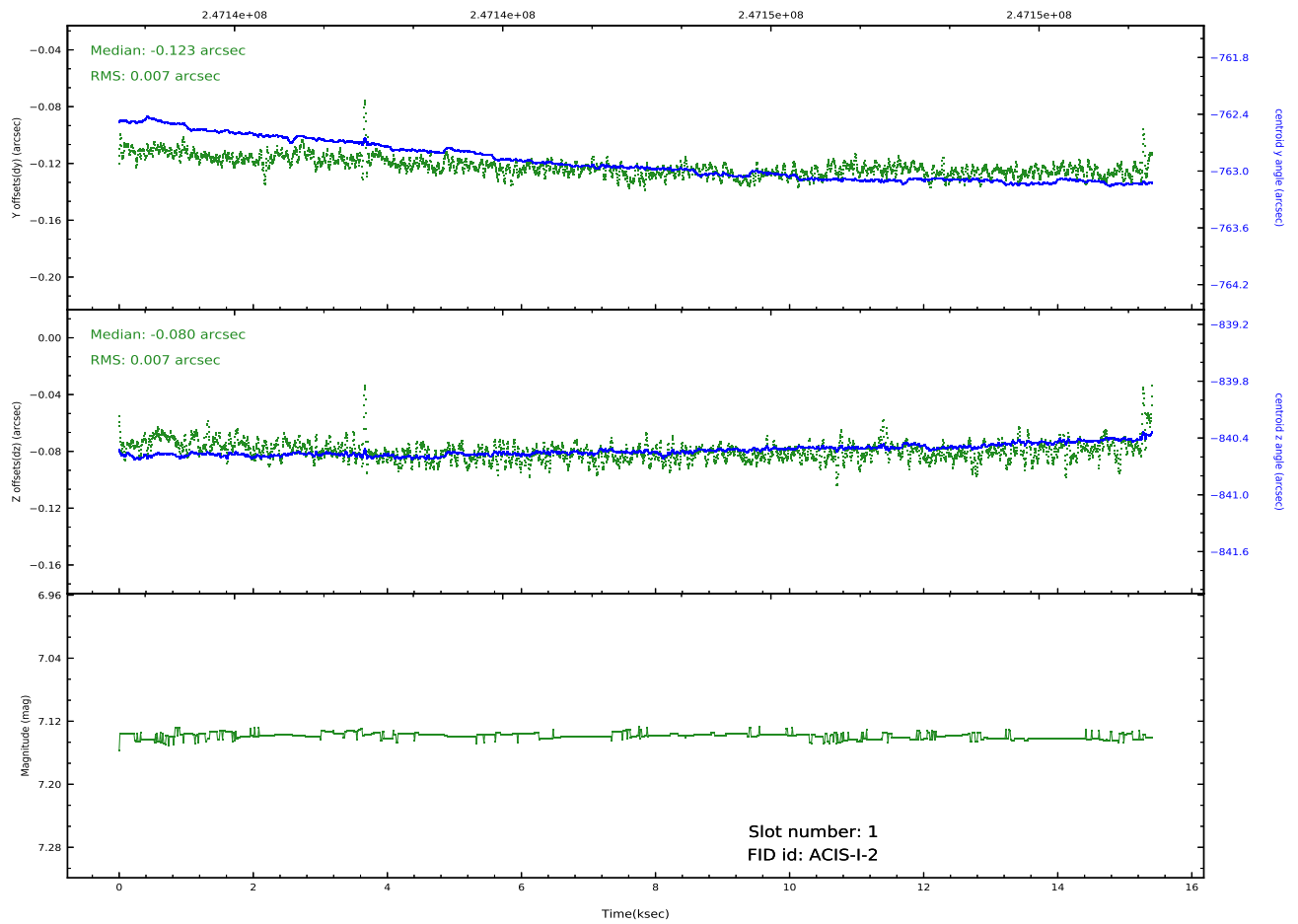
2.5.1 Slot 0



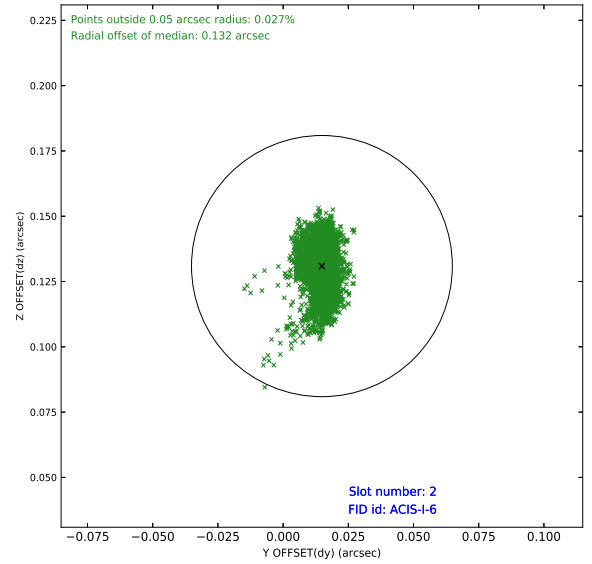
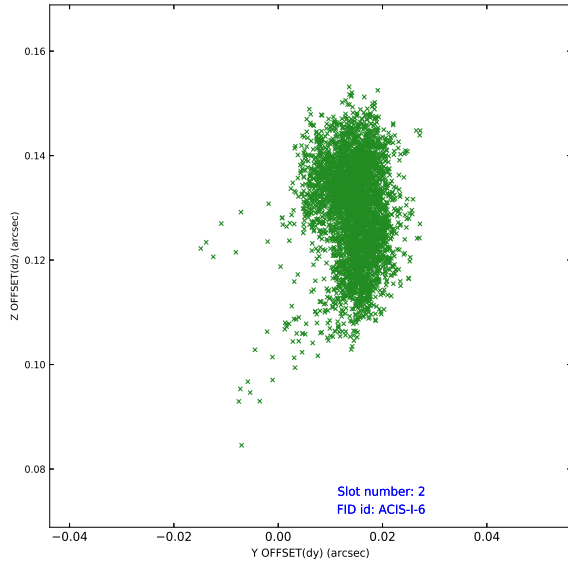
2.5.2 Slot 1



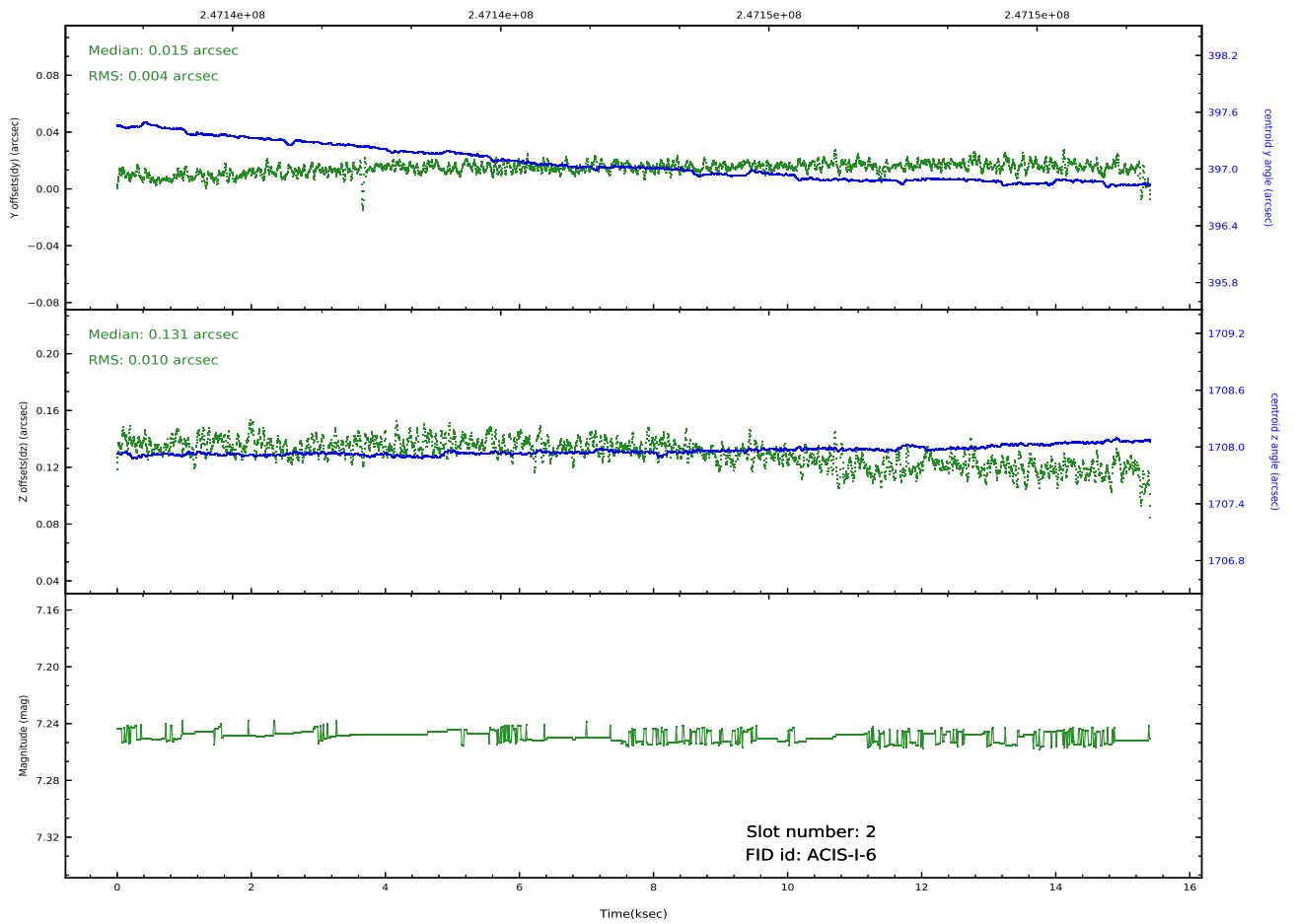
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.04959

A.2 Comments

Roll preference met.