

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5836 - L2 Version 4
Chandra X-Ray Center

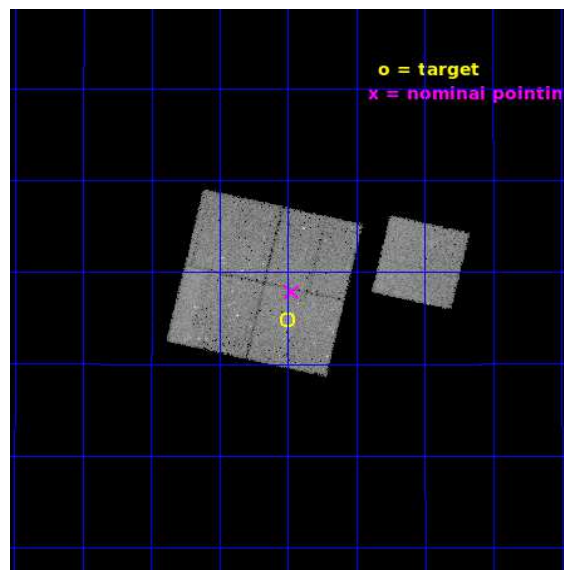
L2 Processing Date : Oct 6 2020

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1 Front

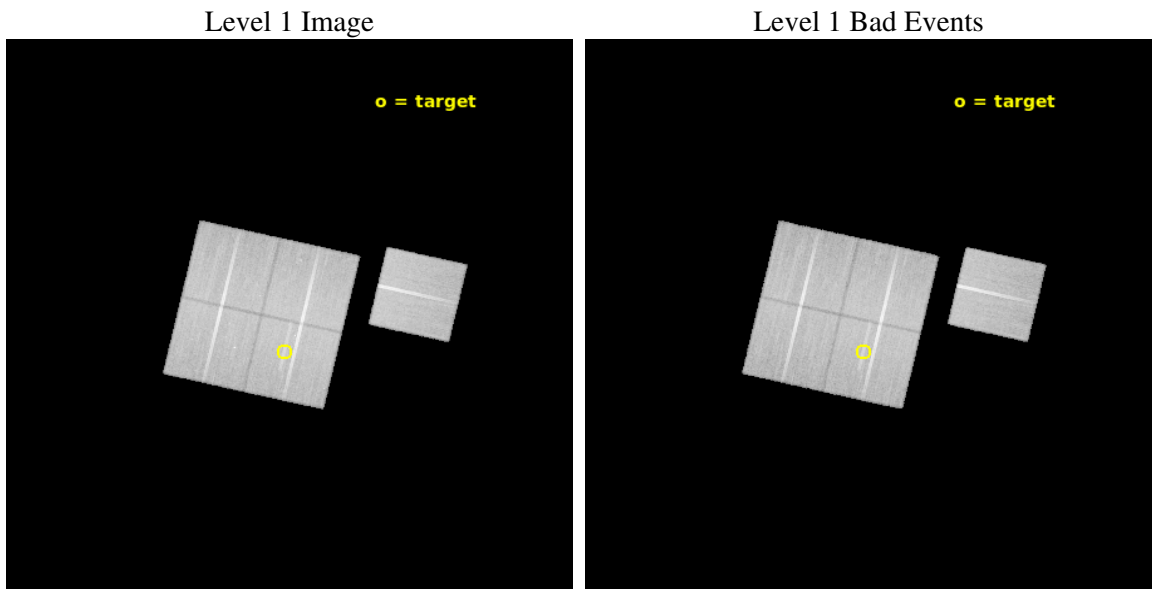
seq_num	800545	Sequence number
obs_id	5836	Observation id
title	Supplement to Chandra observations of high-redshift clusters of galaxies from the 400 Square Degree ROSAT PSPC survey	Proposal title
observer	Dr. Stephen Murray	Principal investigator
object	CIG J1117+1744	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	169.375417	Observer's specified target RA [deg]
dec_targ	17.745833	Observer's specified target Dec [deg]
ra_nom	169.36797696404	Nominal RA [deg]
dec_nom	17.798229940778	Nominal Dec [deg]
roll_nom	103.01913495758	Nominal Roll [deg]
revision	4	Processing version of data
ontime	45758.212616175	Sum of GTIs [s]
livetime	45160.347881639	Livetime [s]
ontime0	45754.948426306	Sum of GTIs [s]
ontime1	45773.835407704	Sum of GTIs [s]
ontime2	45755.030506372	Sum of GTIs [s]
ontime3	45758.212616175	Sum of GTIs [s]
ontime6	45770.612347454	Sum of GTIs [s]
l2events	119479	Number of level 2 events



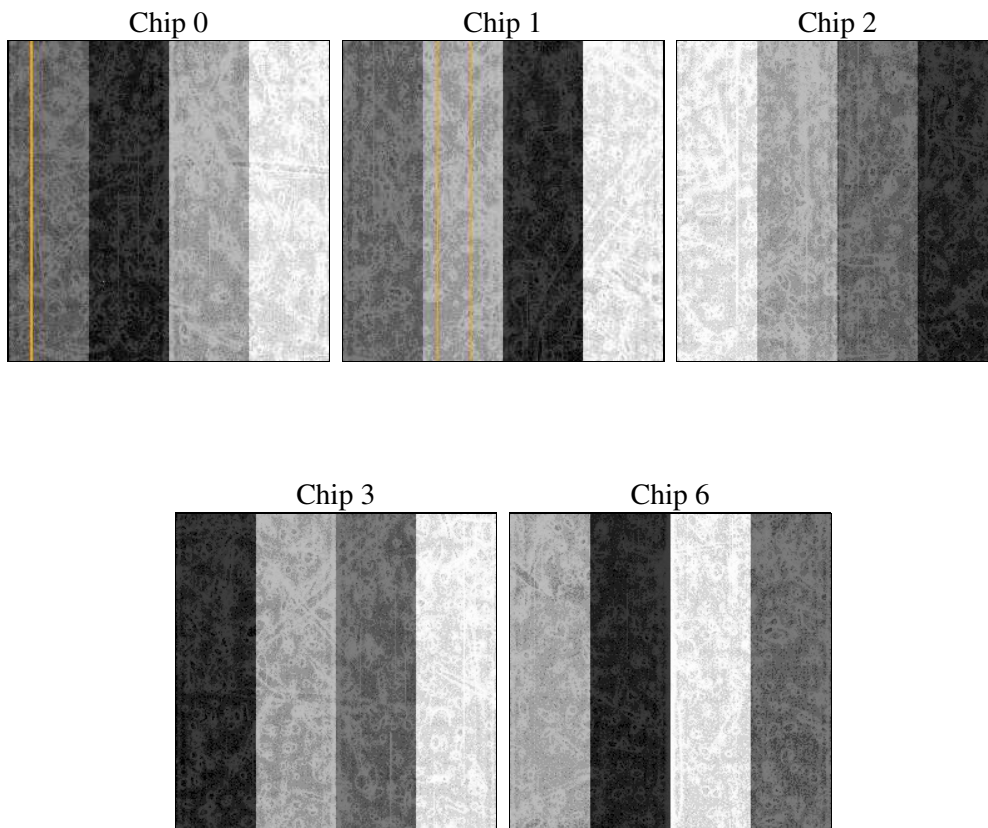
2 OBI

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	45758.212616175	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	45754.948426306	Sum of GTIs [s]
date	2020-10-06T21:34:31	Date and time of file creation	ontime1	45773.835407704	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	45755.030506372	Sum of GTIs [s]
			ontime3	45758.212616175	Sum of GTIs [s]
			ontime6	45770.612347454	Sum of GTIs [s]
			l1events	1379773	Number of level 1 events

2.1.4 Events

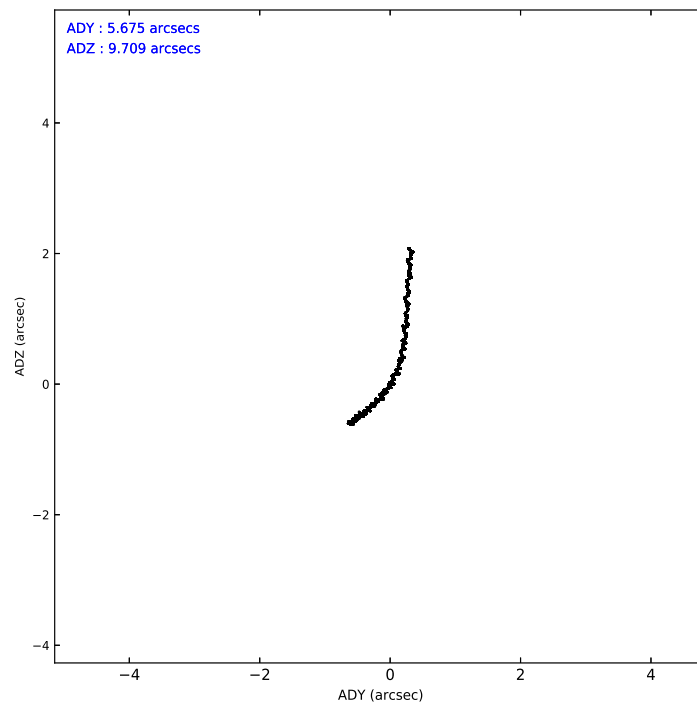
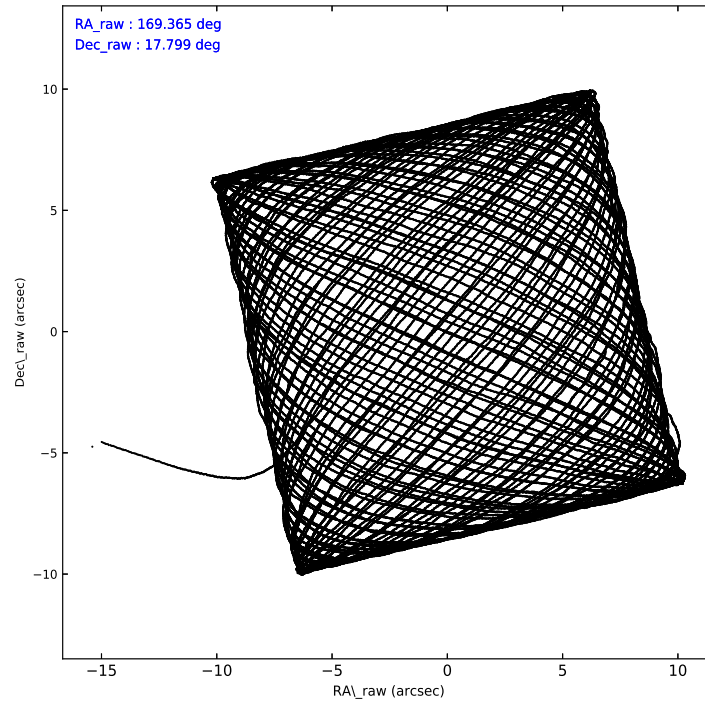
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	265649	266099	290294	280543	277188
rejected events	237331	233913	262531	252730	248945
rejected %	89%	87%	90%	90%	89%

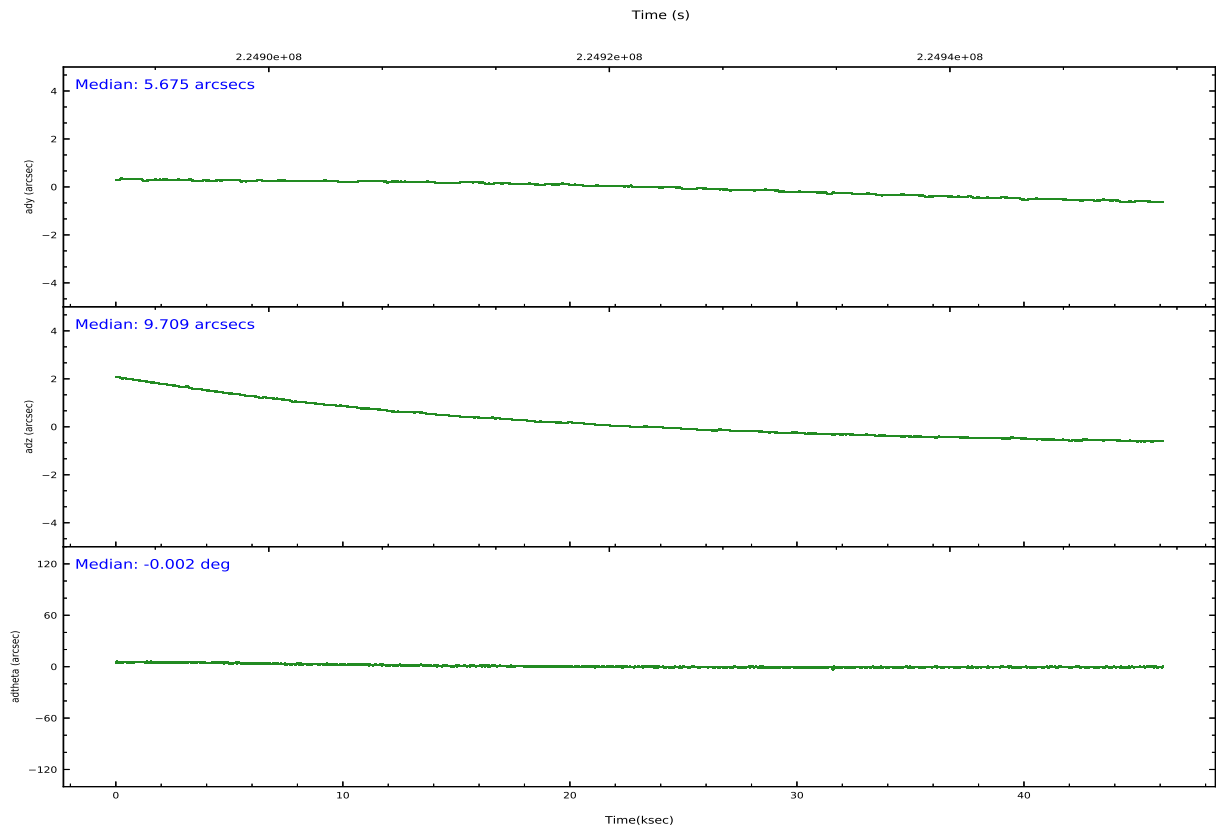
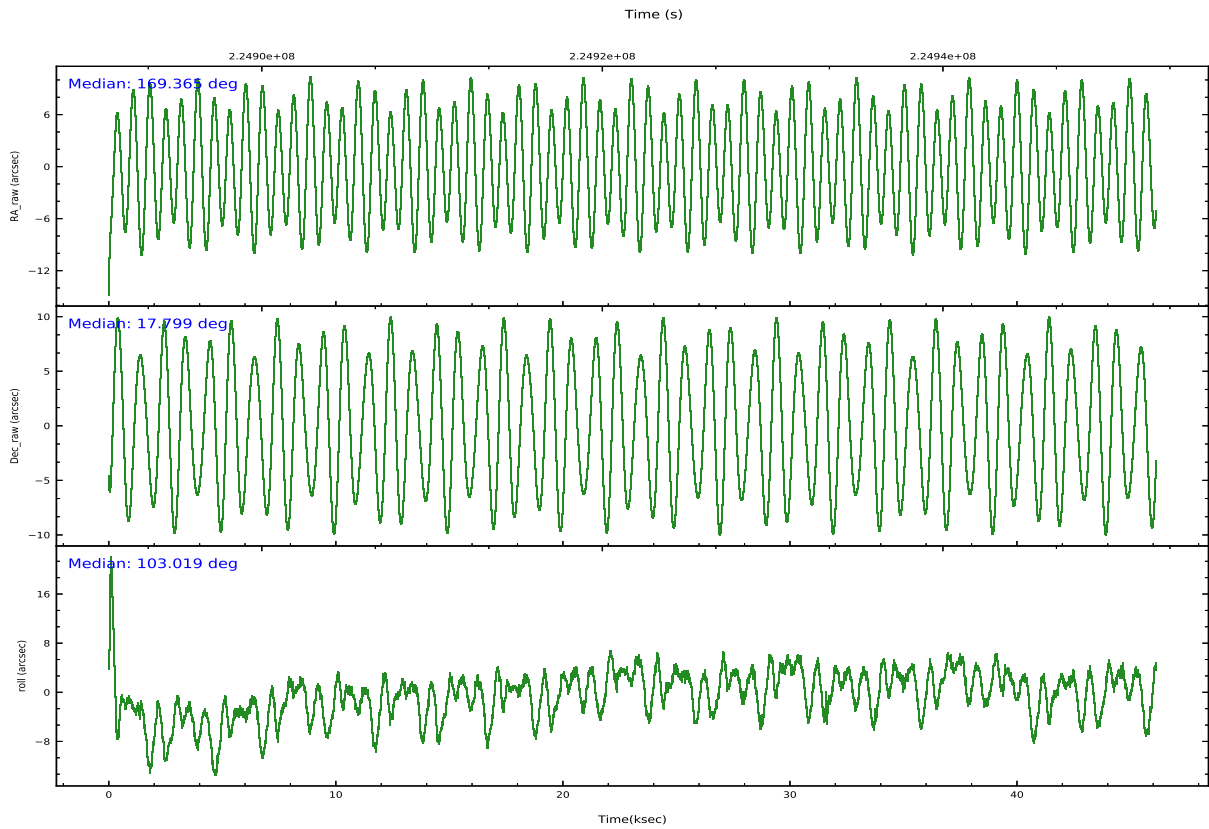
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9832	12073	9972	10537	9781
	3%	4%	3%	3%	3%
grade 1 events	126	132	140	140	125
	0%	0%	0%	0%	0%
grade 2 events	6489	6747	6573	5746	6081
	2%	2%	2%	2%	2%
grade 3 events	3425	3510	3019	3087	3164
	1%	1%	1%	1%	1%
grade 4 events	3045	3517	2947	3162	3128
	1%	1%	1%	1%	1%
grade 5 events	10068	10689	9706	11193	10899
	3%	4%	3%	3%	3%
grade 6 events	5530	6341	5255	5286	6090
	2%	2%	1%	1%	2%
grade 7 events	227134	223090	252682	241392	237920
	85%	83%	87%	86%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	169.384324	169.36797696404	Subarray requested	NONE	NONE
[deg] Pointing Dec	17.779210	17.798229940778	Alternating exposures requested	N	N
[deg] Pointing Roll	102.810982	103.01913495758	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-225.840463	-225.8458576473255			
[mm] SIM translation stage offset	-7.752	-7.746595355604228			
[s] Observation start time (MET)	224898392.184000	224897173.42888			
Observation start date	2005-02-15T23:45:28	2005-02-15T23:26:13			
[s] Observation end time (MET)	224944392.184000	224946073.61859			
Observation end date	2005-02-16T12:32:08	2005-02-16T13:01:13			
Read mode	TIMED	TIMED			

2.3 Aspect





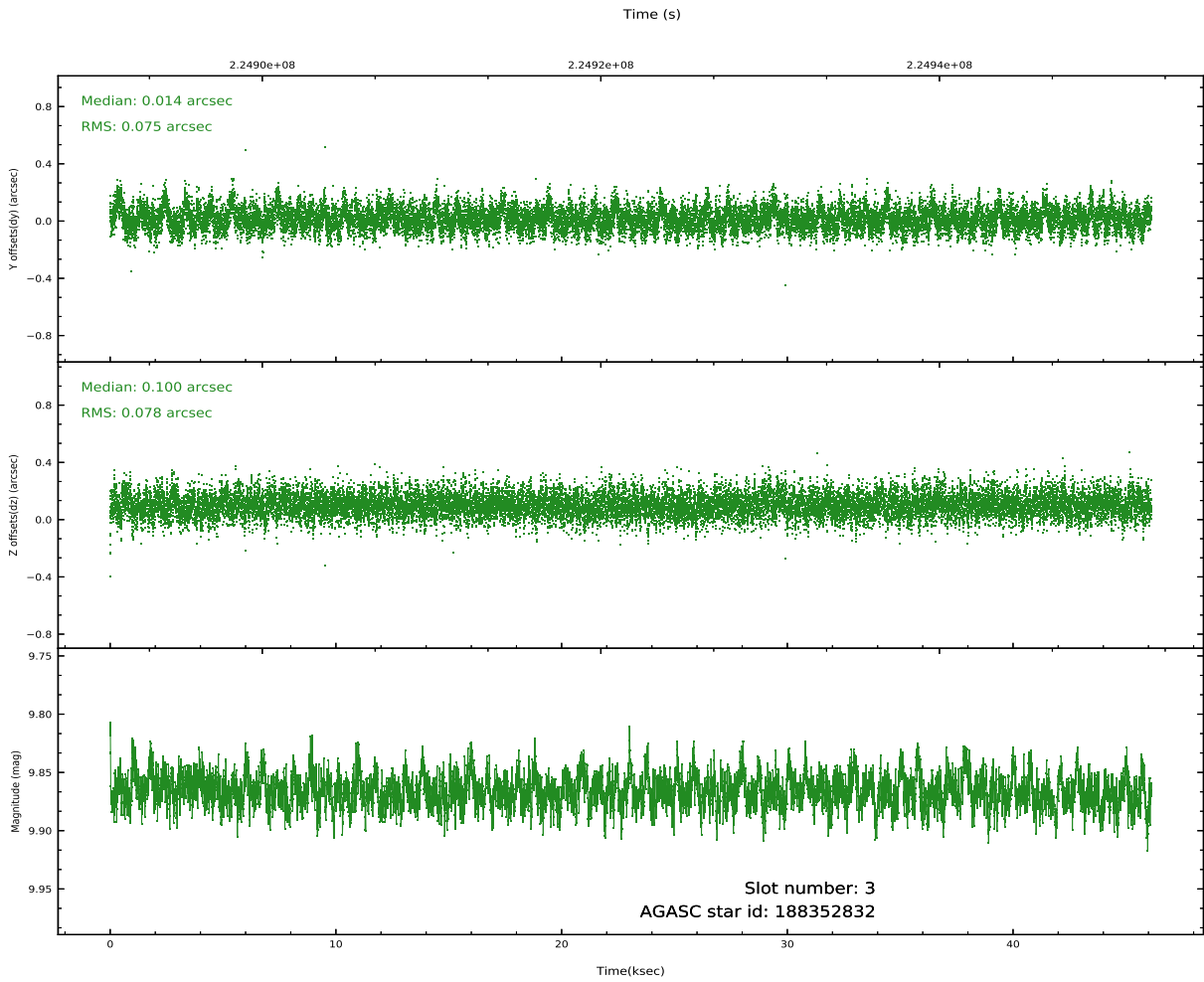
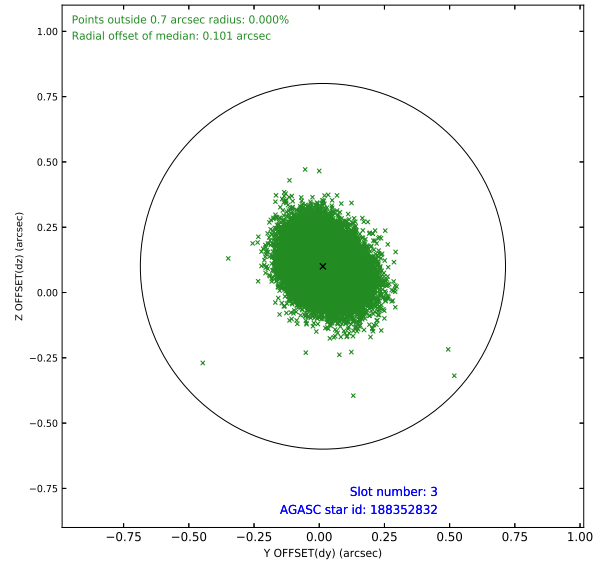
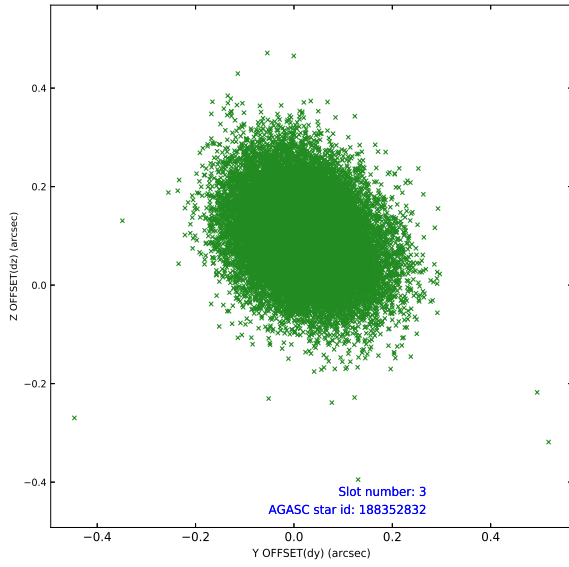
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.23	11252	1.000	0.106	-0.106	0.020	0.047	0.000000	0.000000	934.08	-992
1	FID		ACIS-I-5	7.22	11251	1.000	-0.289	0.074	0.014	0.039	0.000000	0.000000	-1814.44	905
2	FID		ACIS-I-6	7.25	11250	1.000	0.093	0.101	0.018	0.046	0.000000	0.000000	399.60	1549
3	GUIDE	used	188352832	9.87	22484	1.000	0.014	0.100	0.114	0.189	169.850472	18.107090	799.62	-1816
4	GUIDE	used	188358304	10.57	22472	1.000	0.068	0.028	0.190	0.306	169.015817	17.939071	842.36	1103
5	GUIDE	used	188362192	7.54	22502	1.000	-0.112	-0.044	0.069	0.112	170.110288	17.311287	-2190.92	-2060
6	GUIDE	used	188368384	10.04	22485	1.000	0.023	-0.096	0.141	0.225	168.918377	17.370042	-1079.58	1887
7	GUIDE	used	188358160	10.32	22472	1.000	0.007	0.016	0.174	0.284	168.610775	18.068520	1607.59	2349

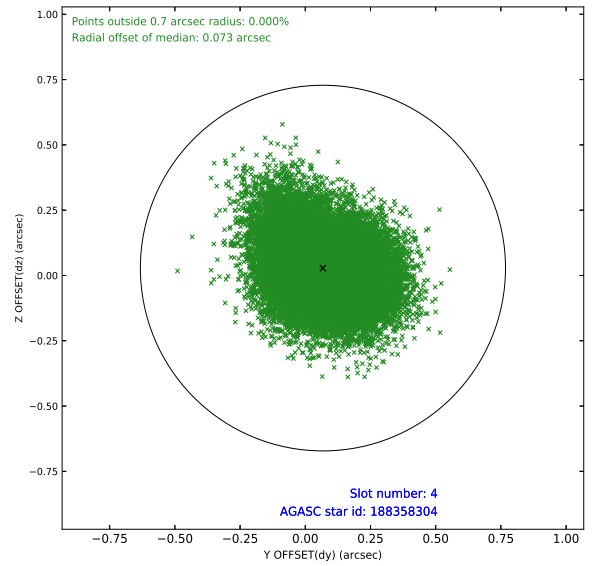
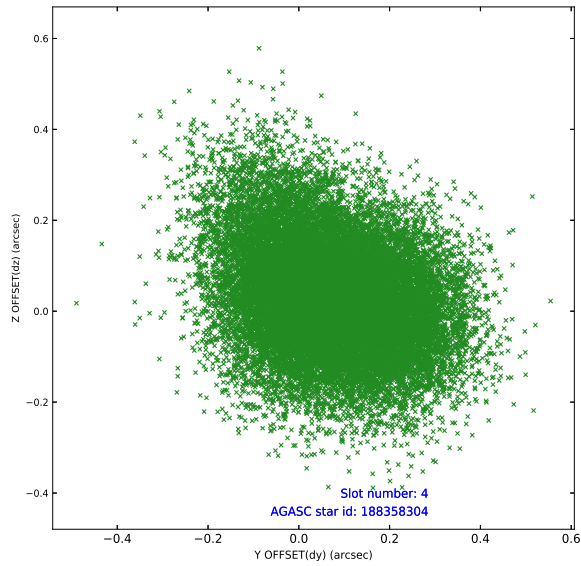
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2.4 Star Slots

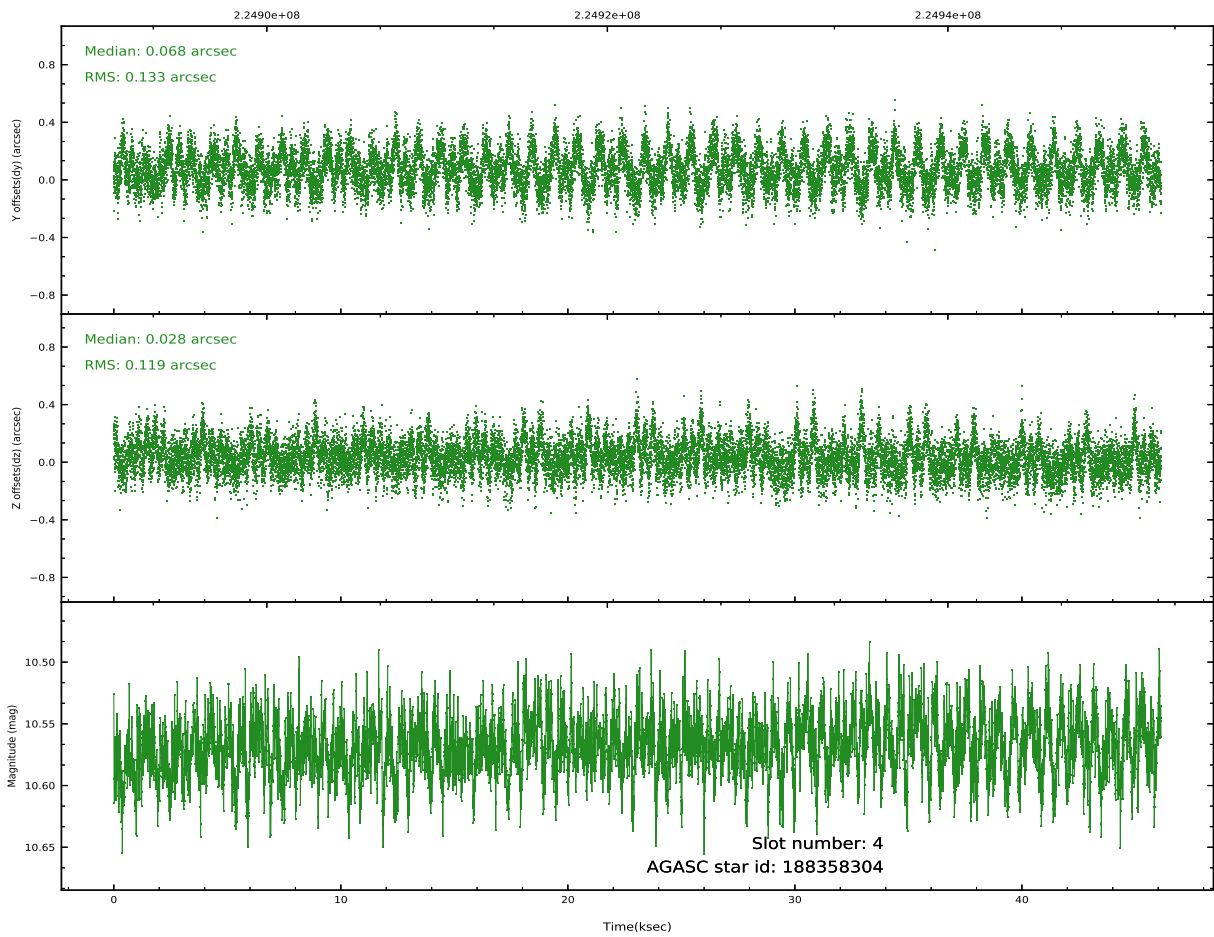
2.4.1 Slot 3



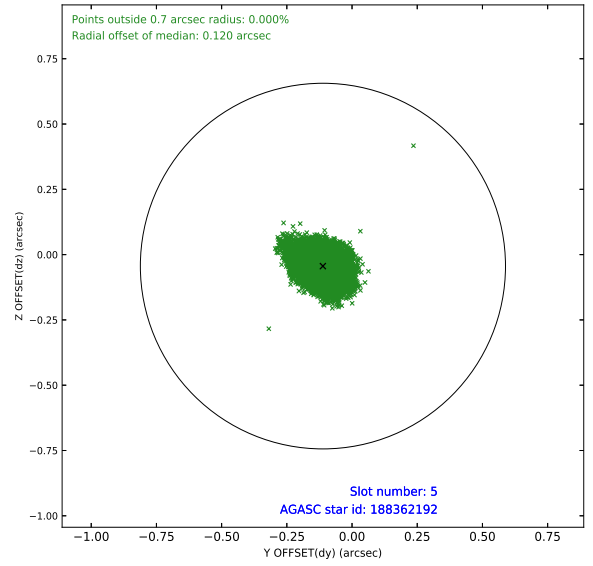
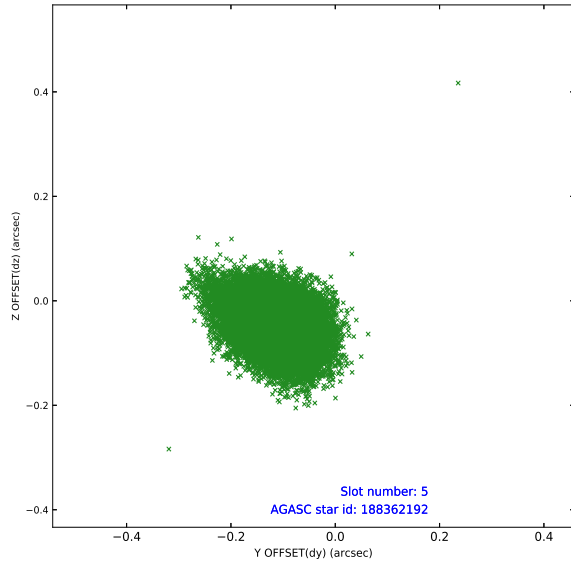
2.4.2 Slot 4



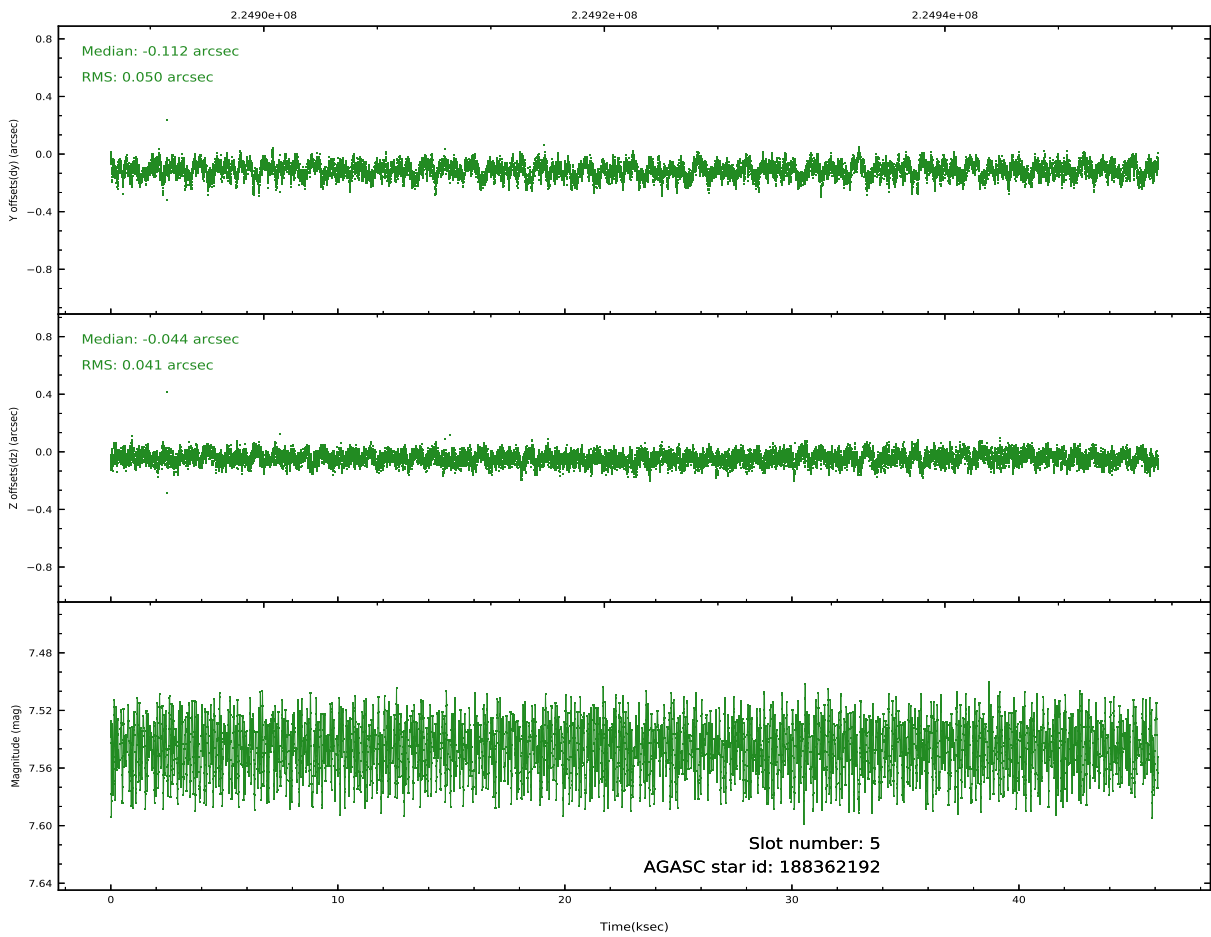
Time (s)



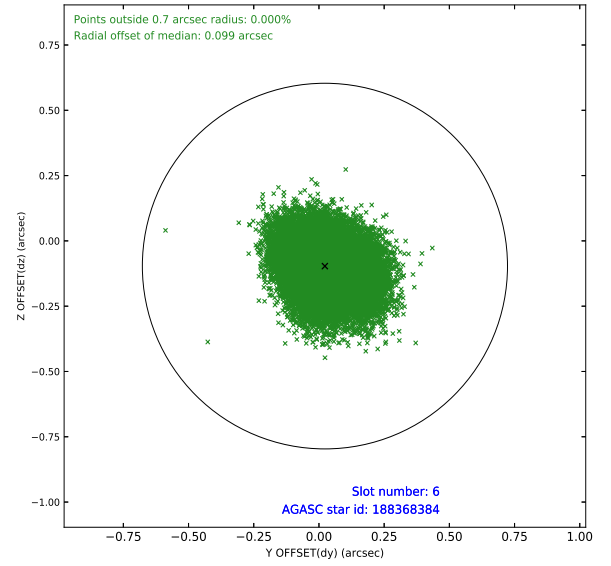
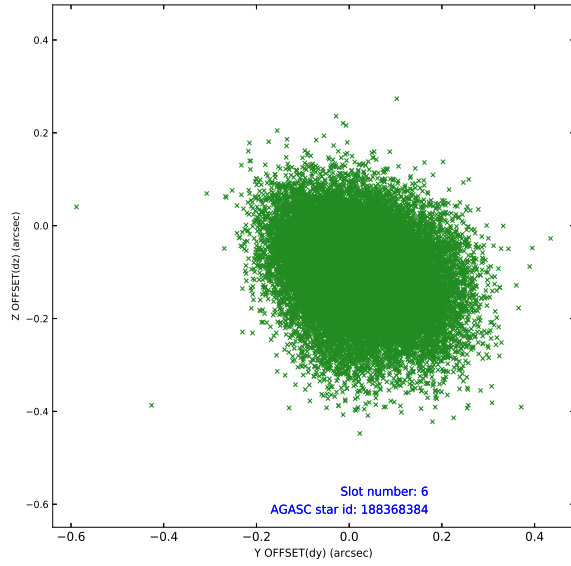
2.4.3 Slot 5



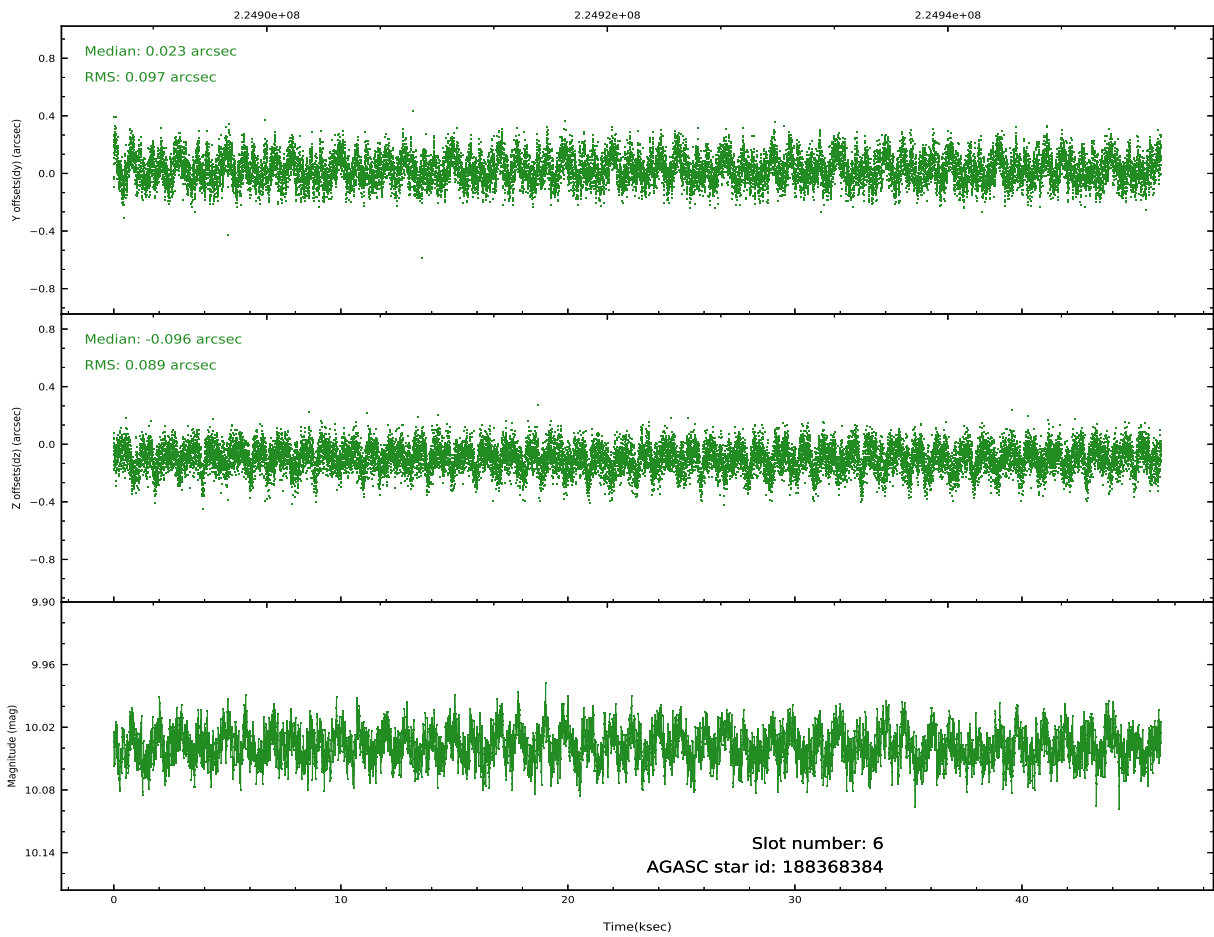
Time (s)



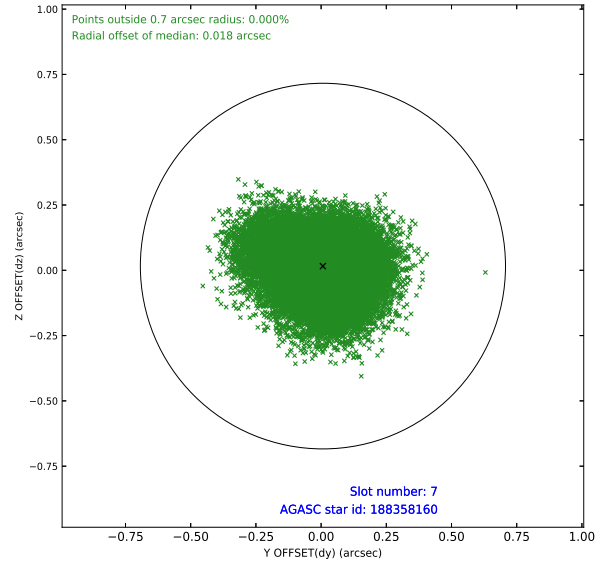
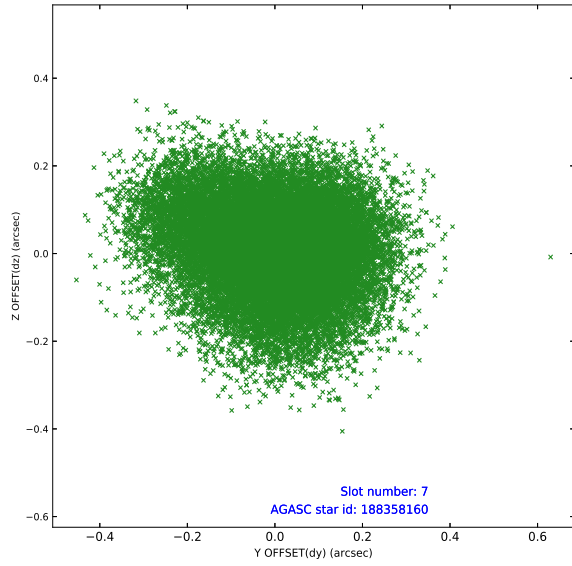
2.4.4 Slot 6



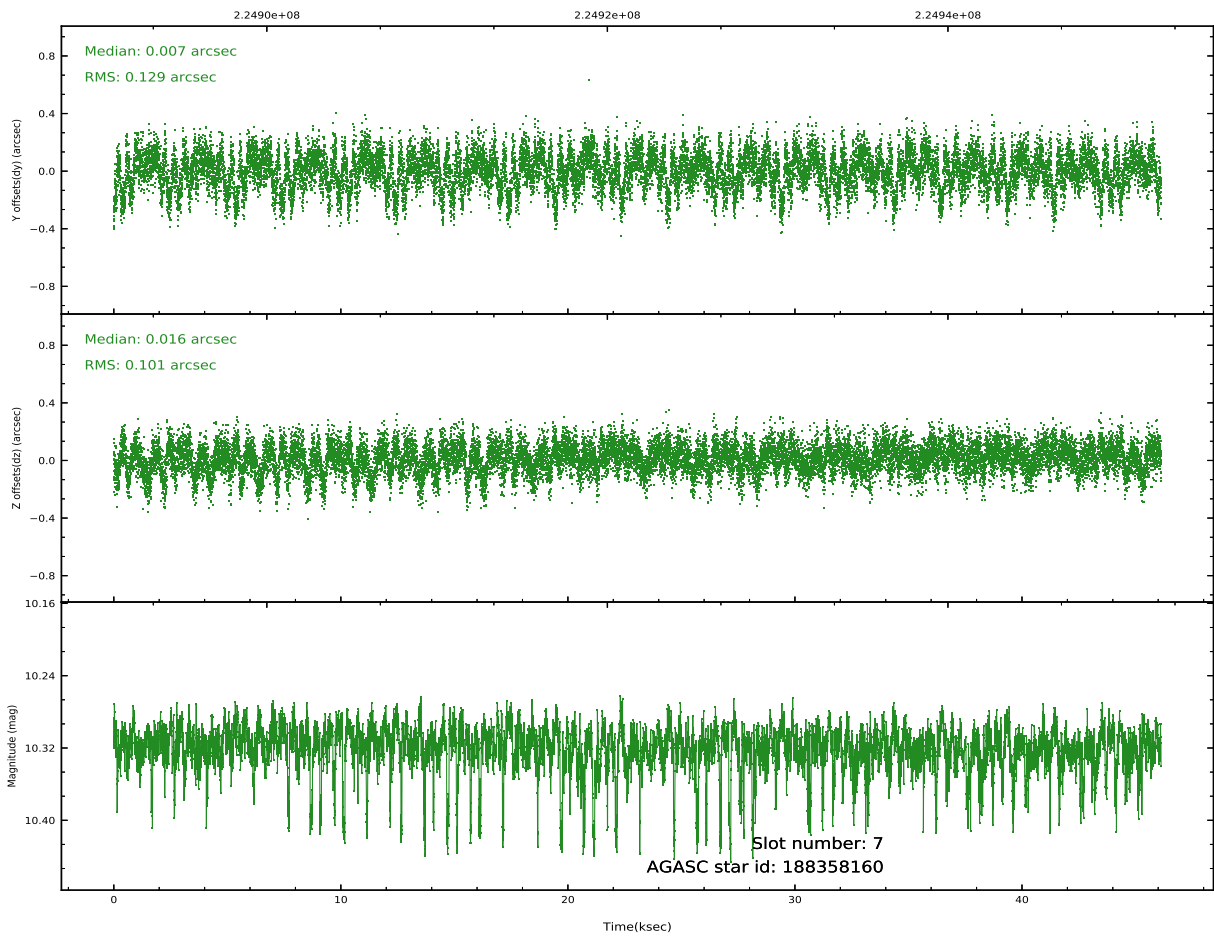
Time (s)



2.4.5 Slot 7

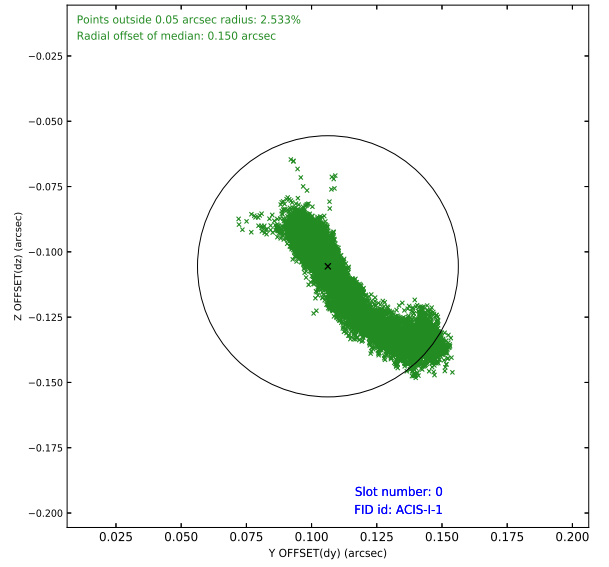
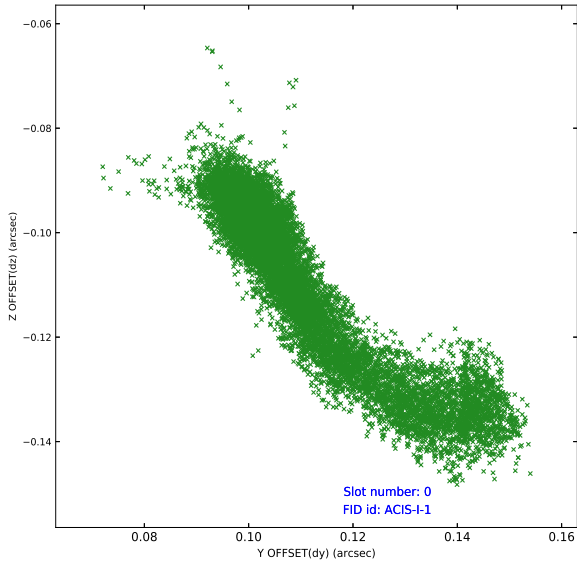


Time (s)

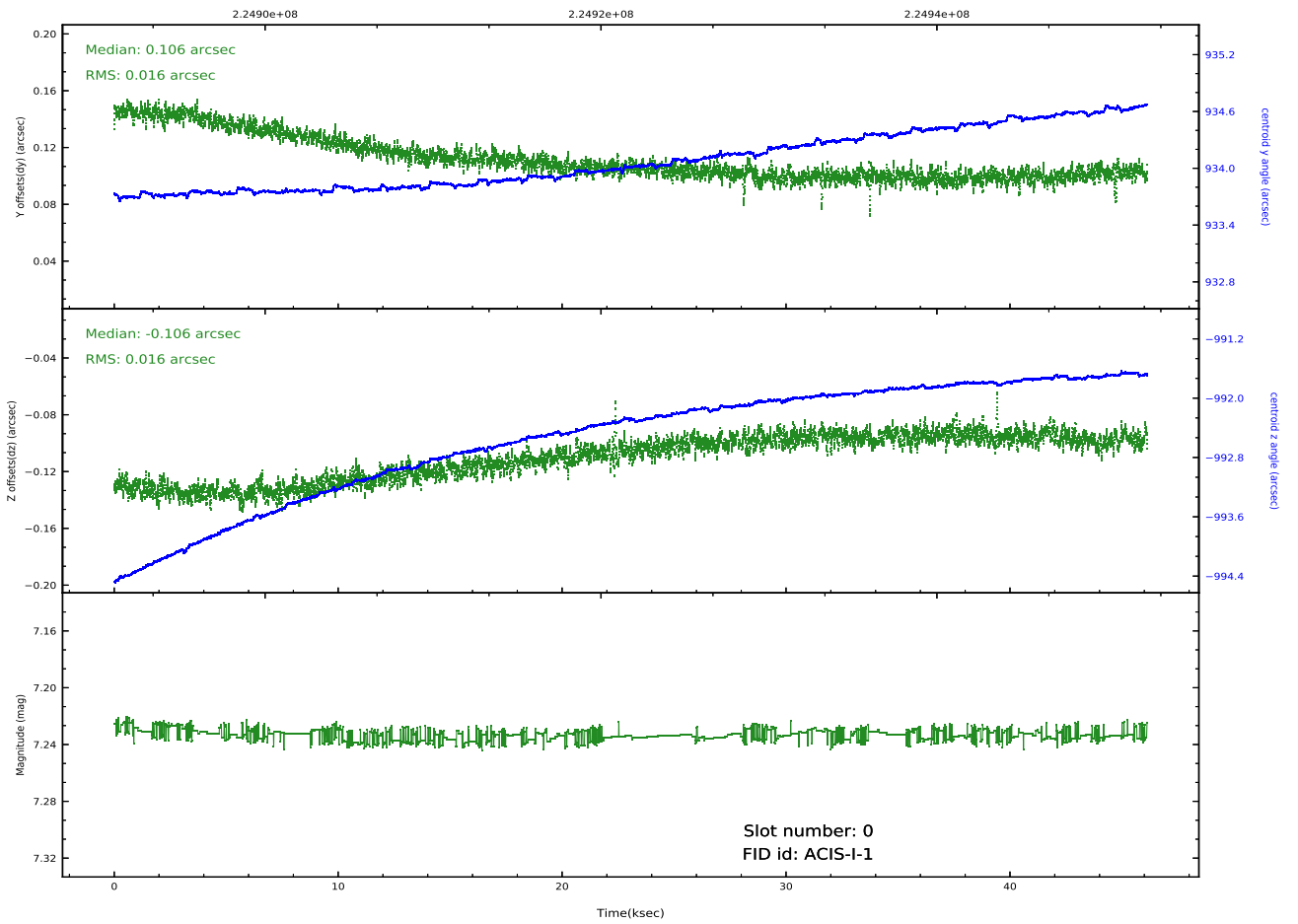


2.5 FID Slots

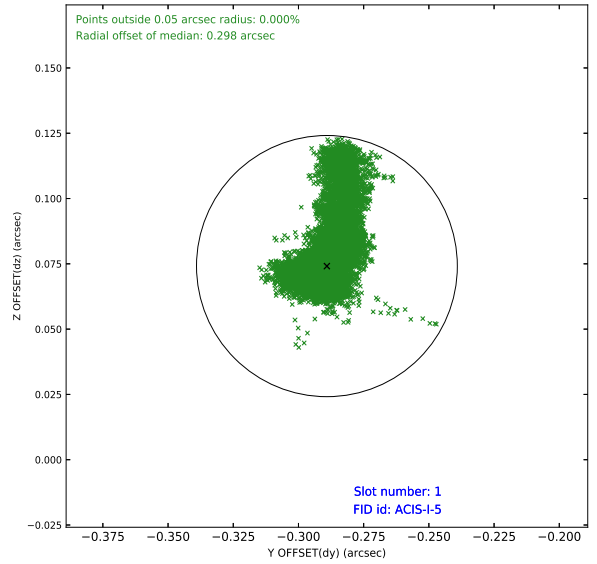
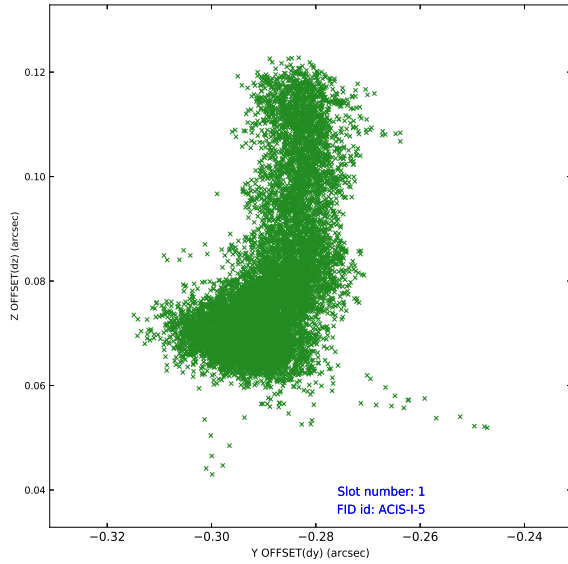
2.5.1 Slot 0



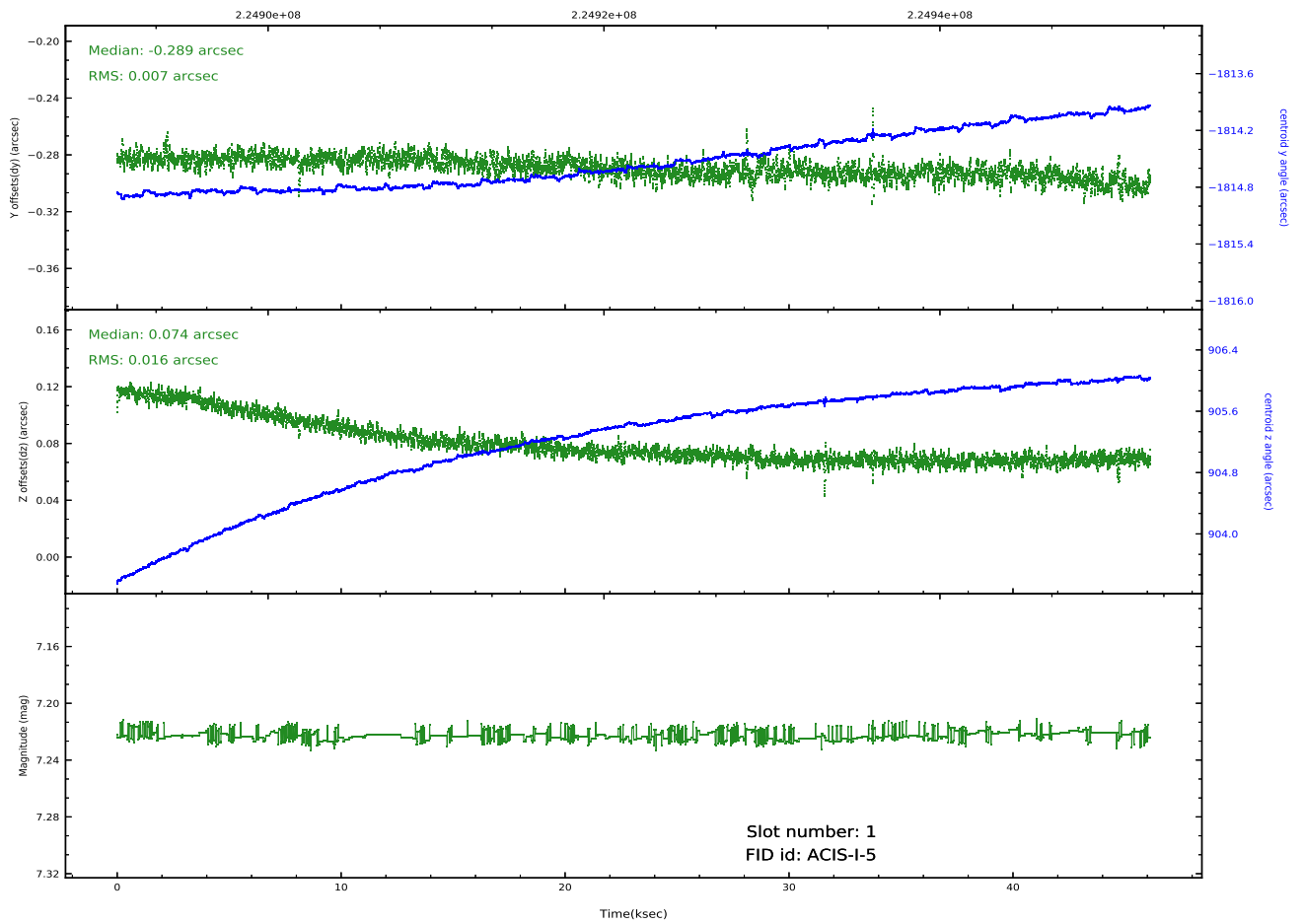
Time (s)



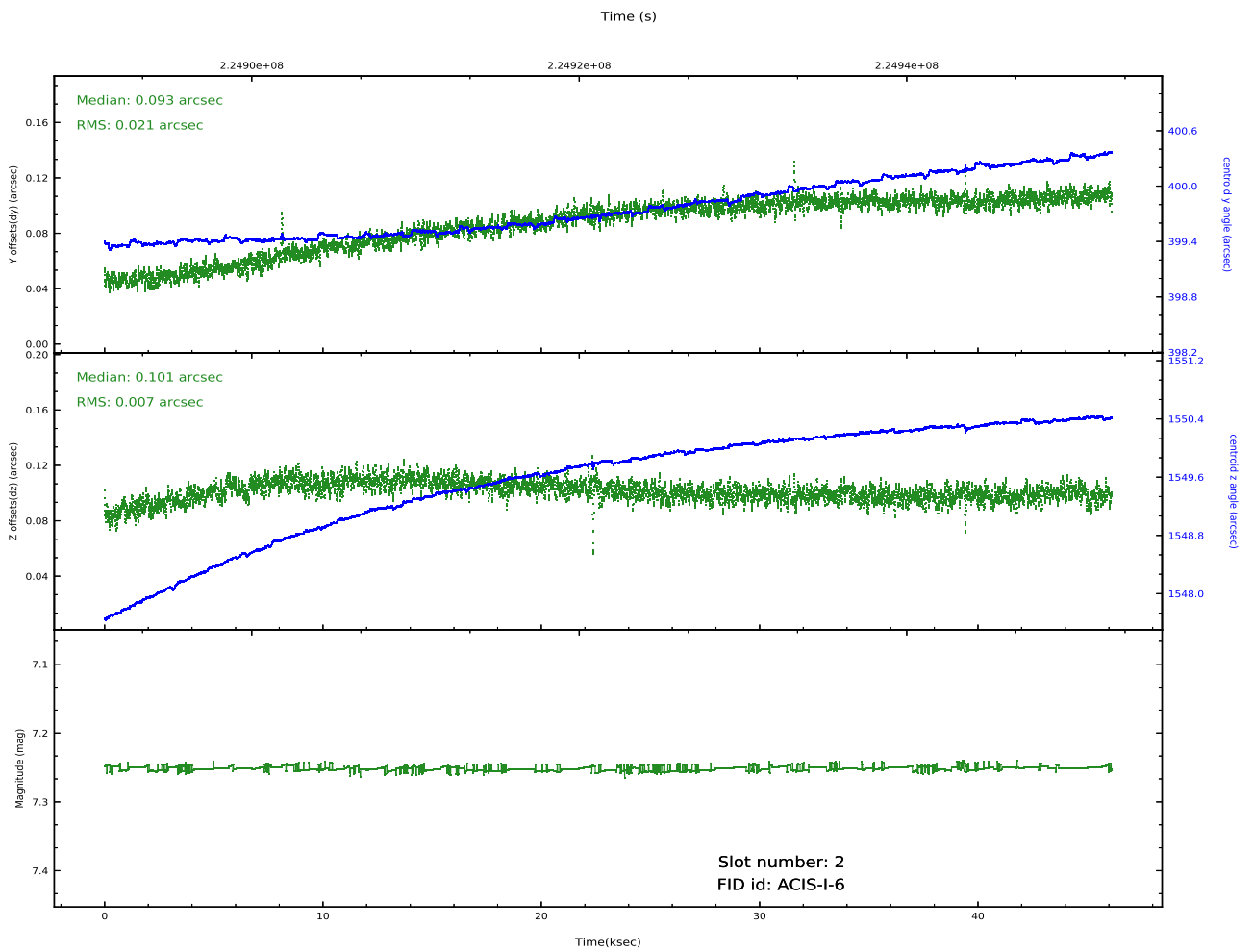
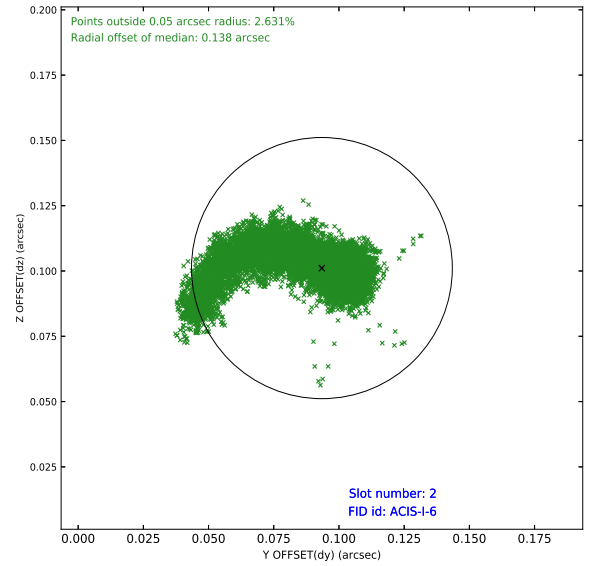
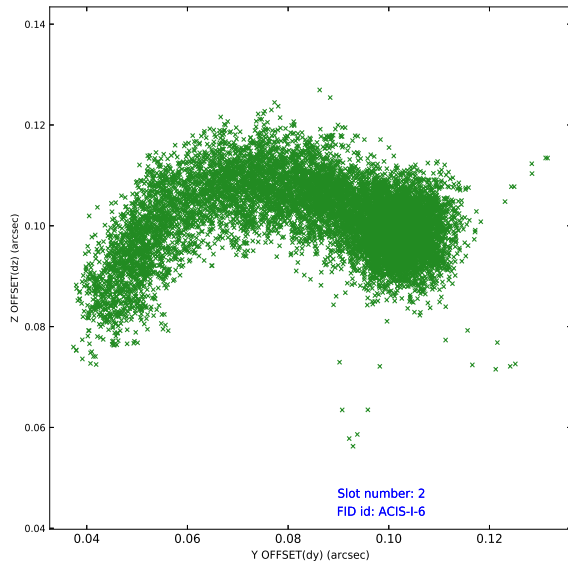
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	45.75889

A.2 Comments