

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6171 - L2 Version 4
Chandra X-Ray Center

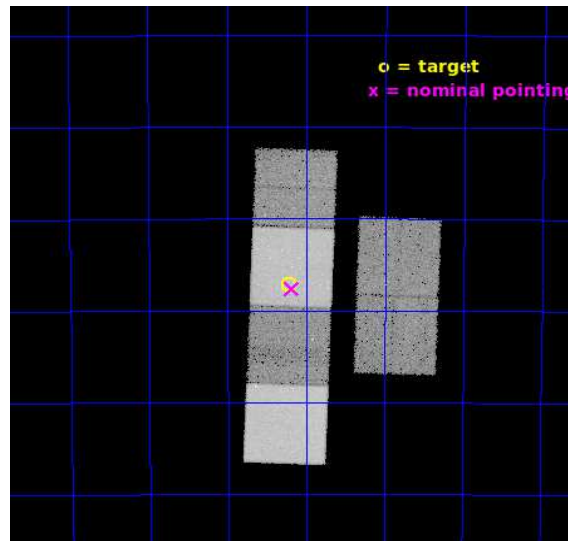
L2 Processing Date : Oct 5 2020

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1 Front

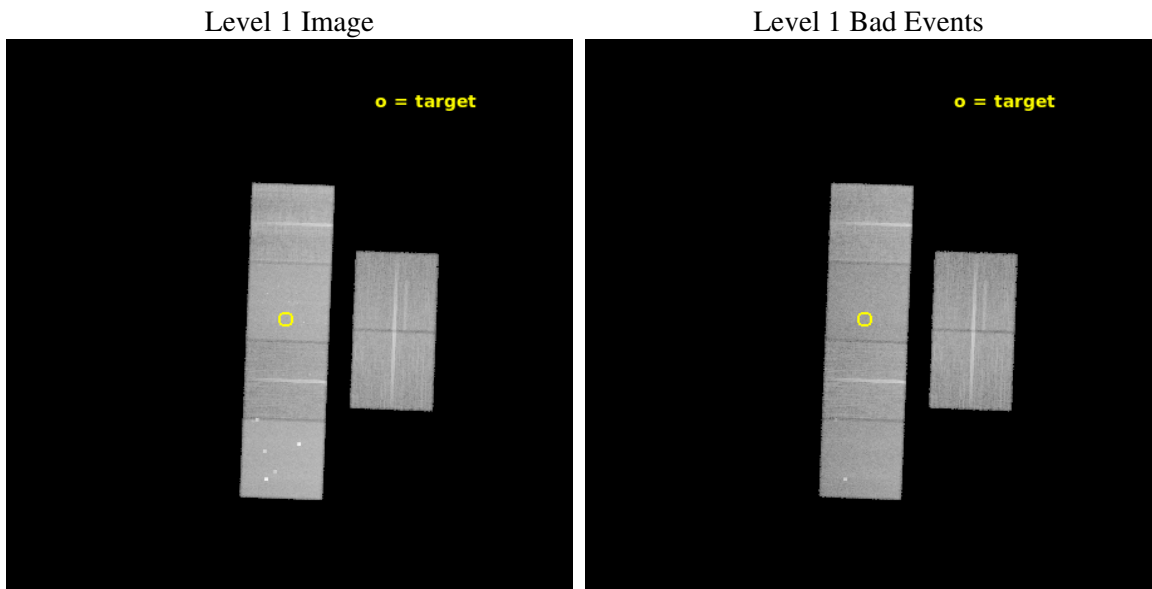
seq_num	200254	Sequence number
obs_id	6171	Observation id
title	A DEEP LOOK AT THE NEAREST BROWN DWARF: EPSILON INDI B, A T2.5 DWARF	
observer	Prof. Marc Audard	Principal investigator
object	EPSILON INDI B	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	331.054167	Observer's specified target RA [deg]
dec_targ	-56.78625	Observer's specified target Dec [deg]
ra_nom	331.04557352597	Nominal RA [deg]
dec_nom	-56.793839166102	Nominal Dec [deg]
roll_nom	272.15796854676	Nominal Roll [deg]
revision	4	Processing version of data
ontime	23647.999911904	Sum of GTIs [s]
livetime	23348.554697904	Livetime [s]
ontime2	23644.75904116	Sum of GTIs [s]
ontime3	23647.999911904	Sum of GTIs [s]
ontime5	23647.999911904	Sum of GTIs [s]
ontime6	23647.999911904	Sum of GTIs [s]
ontime7	23647.999911904	Sum of GTIs [s]
ontime8	23644.759071141	Sum of GTIs [s]
l2events	298106	Number of level 2 events



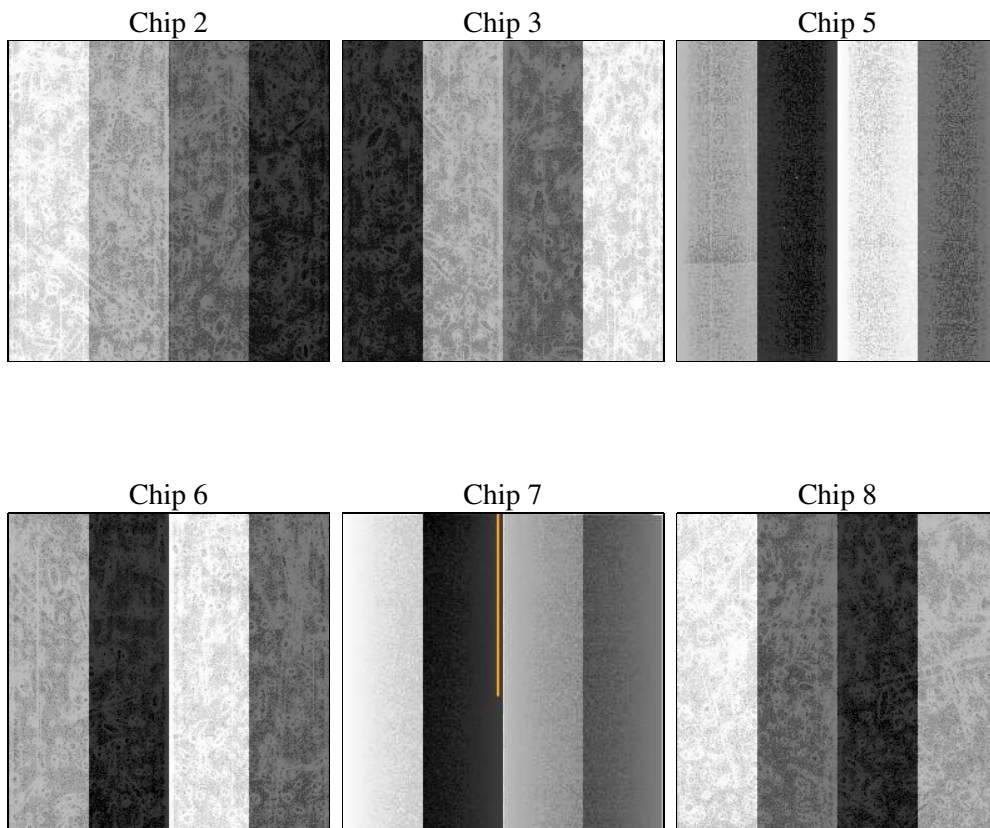
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23500.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	23647.999911904	Sum of GTIs [s]
caldsver	4.9.2	 	ontime2	23644.75904116	Sum of GTIs [s]
date	2020-10-05T11:59:12	Date and time of file creation	ontime3	23647.999911904	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	23647.999911904	Sum of GTIs [s]
			ontime6	23647.999911904	Sum of GTIs [s]
			ontime7	23647.999911904	Sum of GTIs [s]
			ontime8	23644.759071141	Sum of GTIs [s]
			l1events	1317585	Number of level 1 events

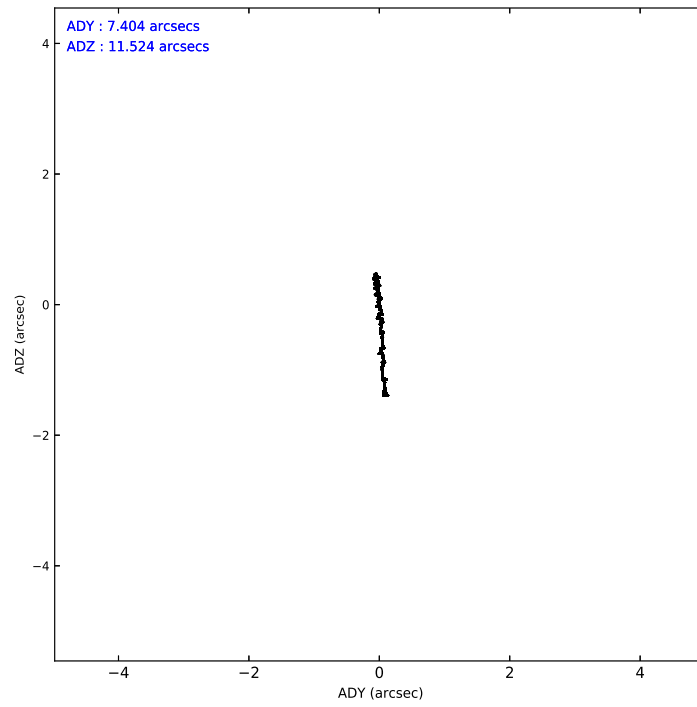
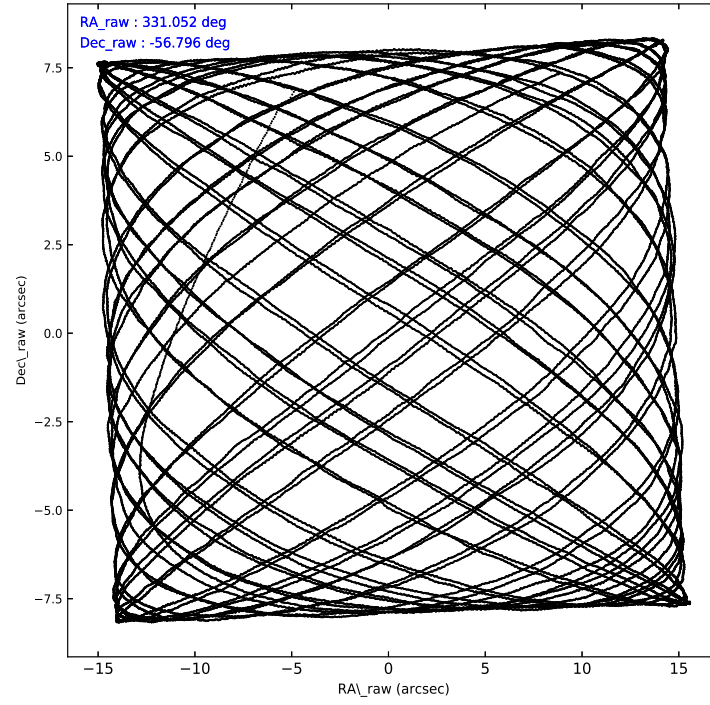
2.1.4 Events

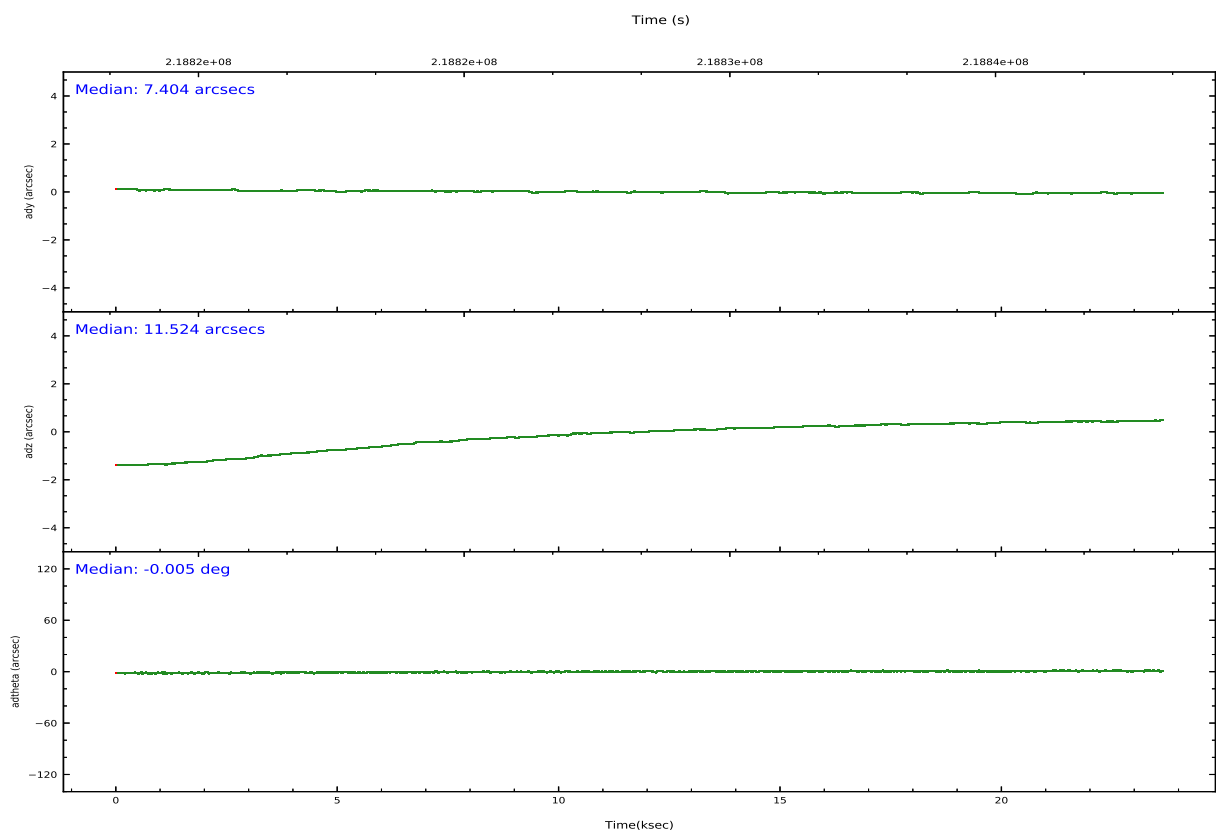
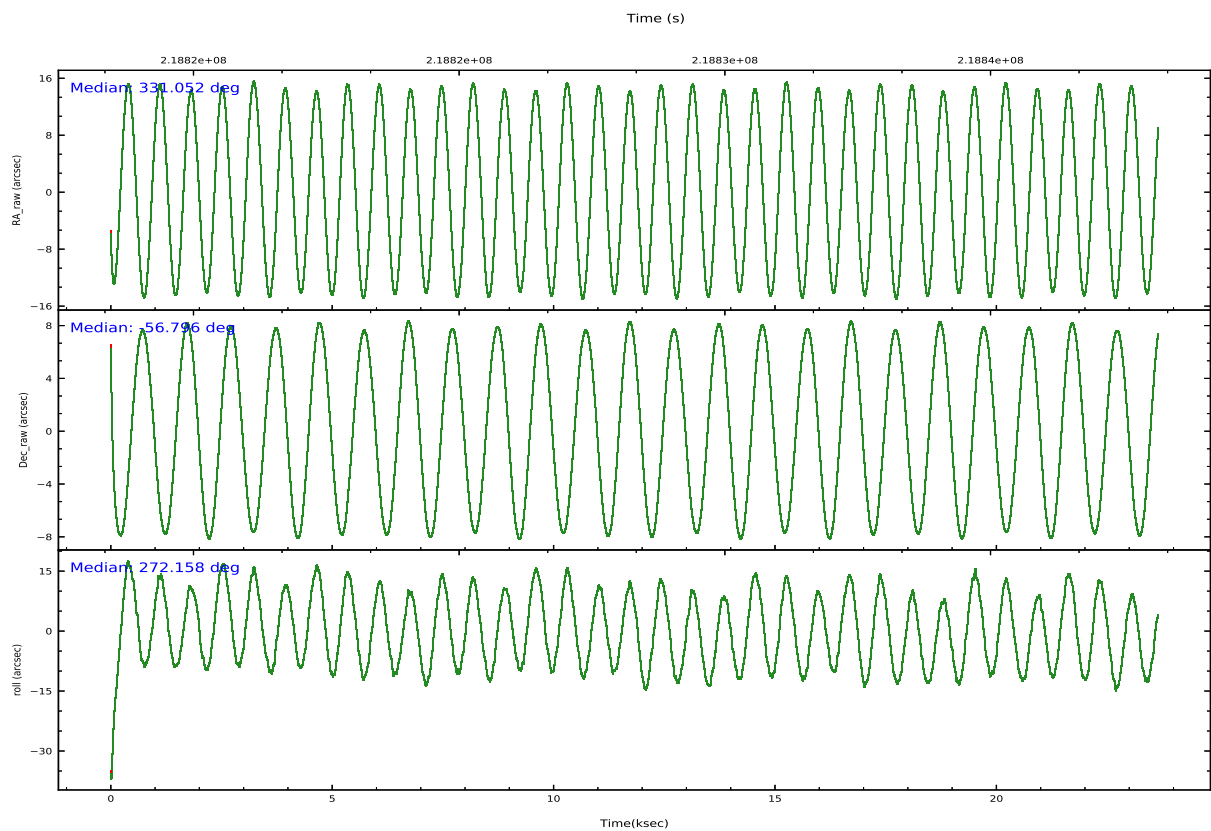
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	189593	174498	282825	183063	246750	240856	grade 0 events	10551	9601	18922	9314	9829	19631
rejected events	166369	152602	150619	159849	143964	184471		5%	5%	6%	5%	3%	8%
rejected %	87%	87%	53%	87%	58%	76%	grade 1 events	133	123	1705	105	259	183
								0%	0%	0%	0%	0%	0%
							grade 2 events	5017	4602	38773	5186	20746	11738
								2%	2%	13%	2%	8%	4%
							grade 3 events	2040	2034	4953	2117	9281	6398
								1%	1%	1%	1%	3%	2%
							grade 4 events	1997	2003	4821	2112	9020	5846
								1%	1%	1%	1%	3%	2%
							grade 5 events	7100	7845	19759	8174	23284	10872
								3%	4%	6%	4%	9%	4%
							grade 6 events	3798	3892	65993	4700	54843	13392
								2%	2%	23%	2%	22%	5%
							grade 7 events	158957	144398	127899	151355	119488	172796
								83%	82%	45%	82%	48%	71%

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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	331.024726	331.04557352597	Subarray requested	NONE	NONE
[deg] Pointing Dec	-56.772968	-56.793839166102	Alternating exposures requested	N	N
[deg] Pointing Roll	271.975376	272.15796854676	[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)	218816286.184000	218815119.89201			
Observation start date	2004-12-07T14:17:02	2004-12-07T13:58:39			
[s] Observation end time (MET)	218839786.184000	218841093.39318			
Observation end date	2004-12-07T20:48:42	2004-12-07T21:11:33			
Read mode	TIMED	TIMED			

2.3 Aspect



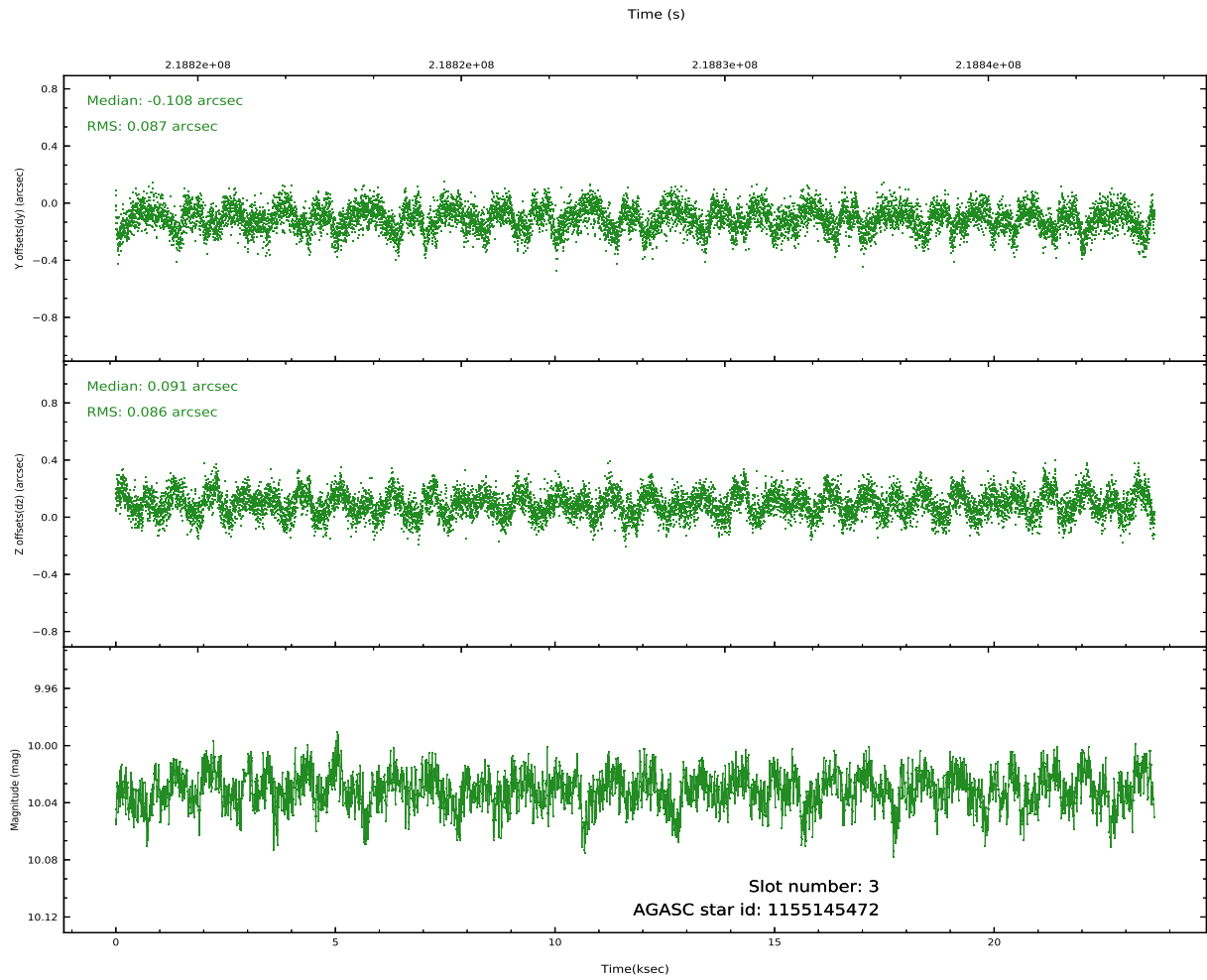
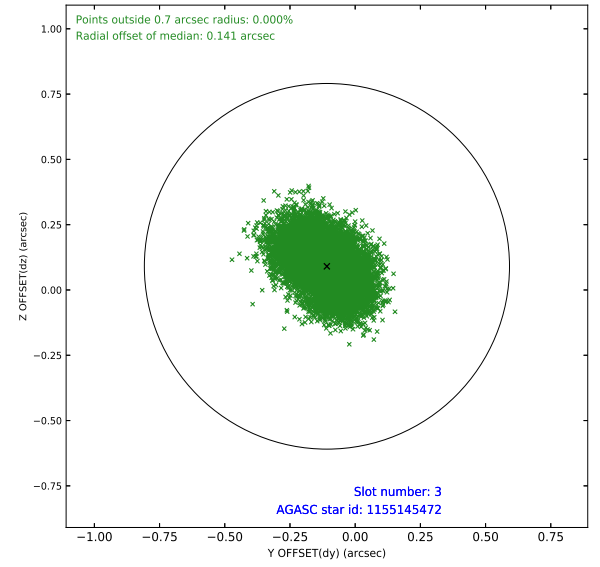
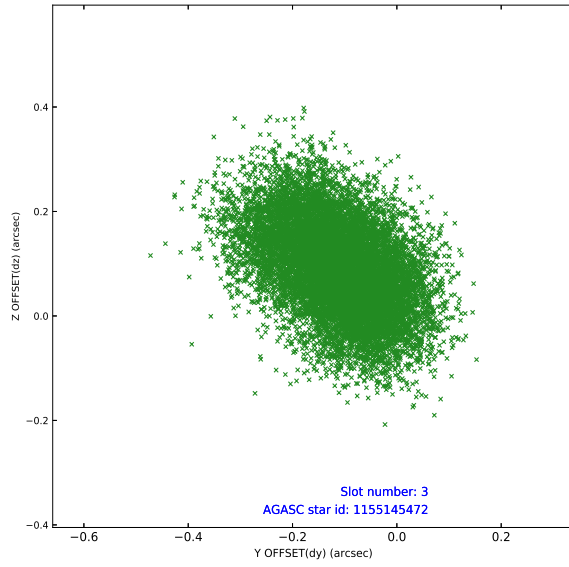


Slot Statistics

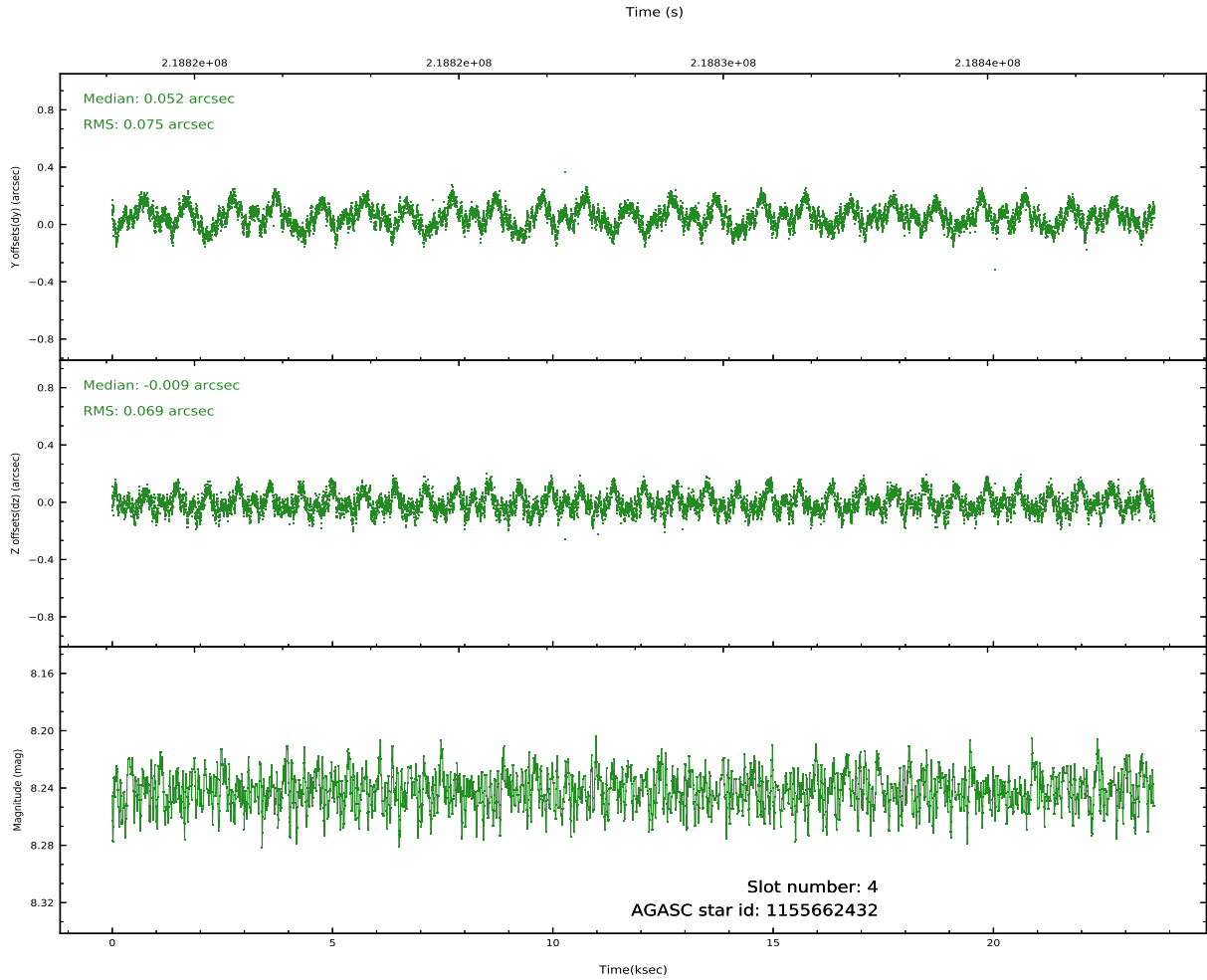
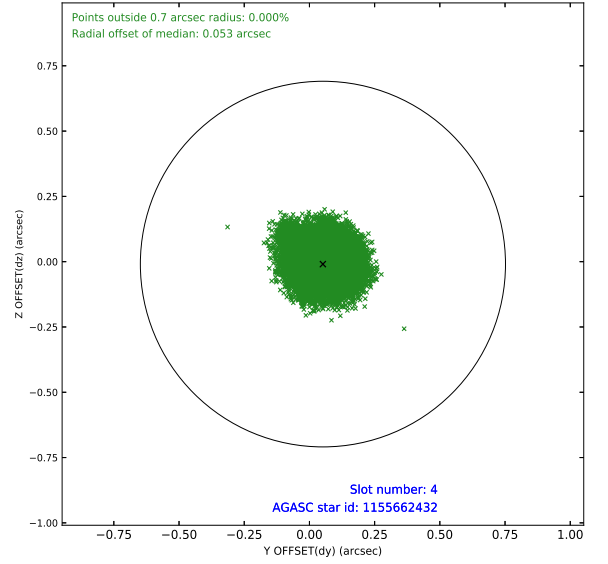
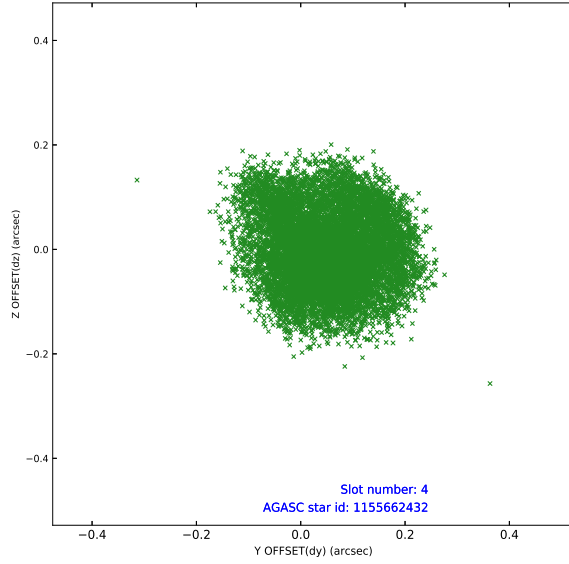
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.10	5770	1.000	-0.092	-0.080	0.012	0.020	0.000000	0.000000	-760.22	-1732
1	FID		ACIS-S-4	7.20	5769	1.000	0.092	0.036	0.009	0.018	0.000000	0.000000	2153.14	175
2	FID		ACIS-S-6	7.34	5770	1.000	-0.028	0.049	0.009	0.016	0.000000	0.000000	401.94	813
3	GUIDE	used	1155145472	10.03	11525	1.000	-0.108	0.091	0.132	0.211	330.914509	-56.156792	-2224.30	-144
4	GUIDE	used	1155662432	8.24	11535	1.000	0.052	-0.009	0.114	0.170	331.914502	-56.851094	352.82	1740
5	GUIDE	used	1155662832	9.68	11533	1.000	0.231	-0.051	0.214	0.312	330.711099	-57.263815	1746.73	-670
6	GUIDE	used	1155668552	8.00	11539	1.000	-0.062	-0.191	0.071	0.113	331.144851	-56.299715	-1693.95	297
7	GUIDE	used	1155145264	9.72	11517	1.000	-0.110	0.150	0.137	0.223	332.166474	-56.106650	-2299.45	2373

2.4 Star Slots

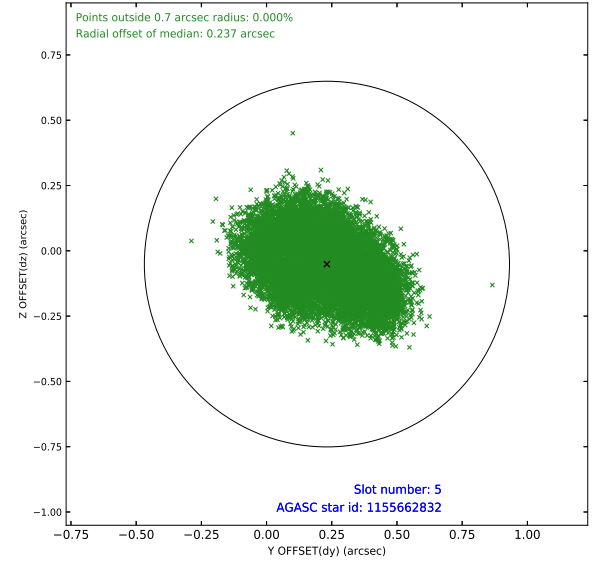
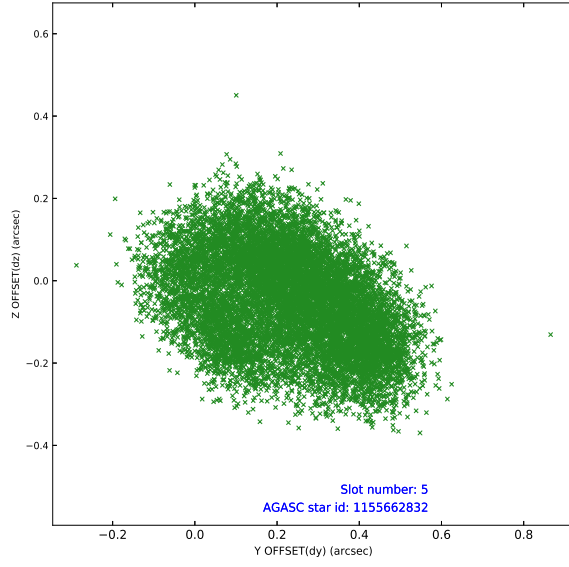
2.4.1 Slot 3



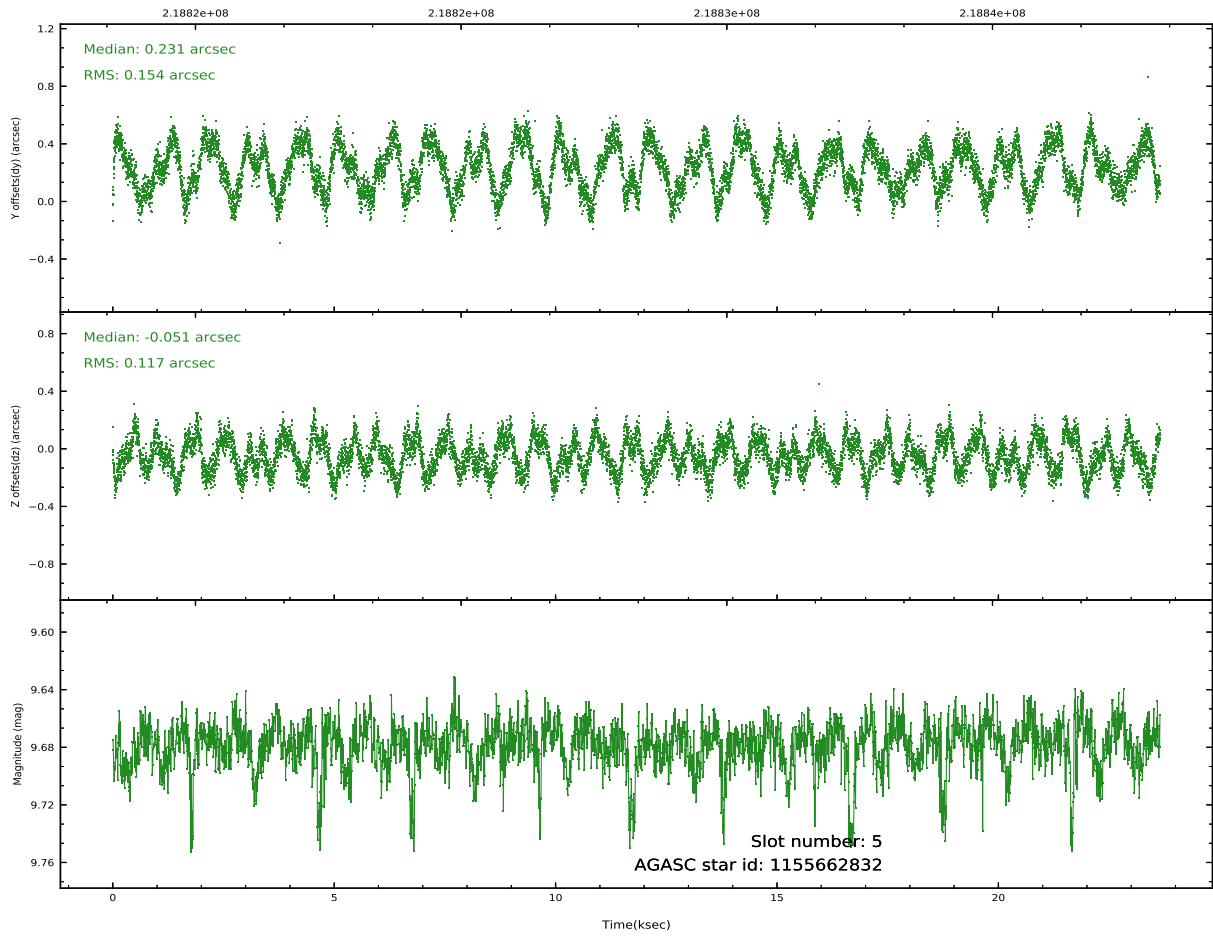
2.4.2 Slot 4



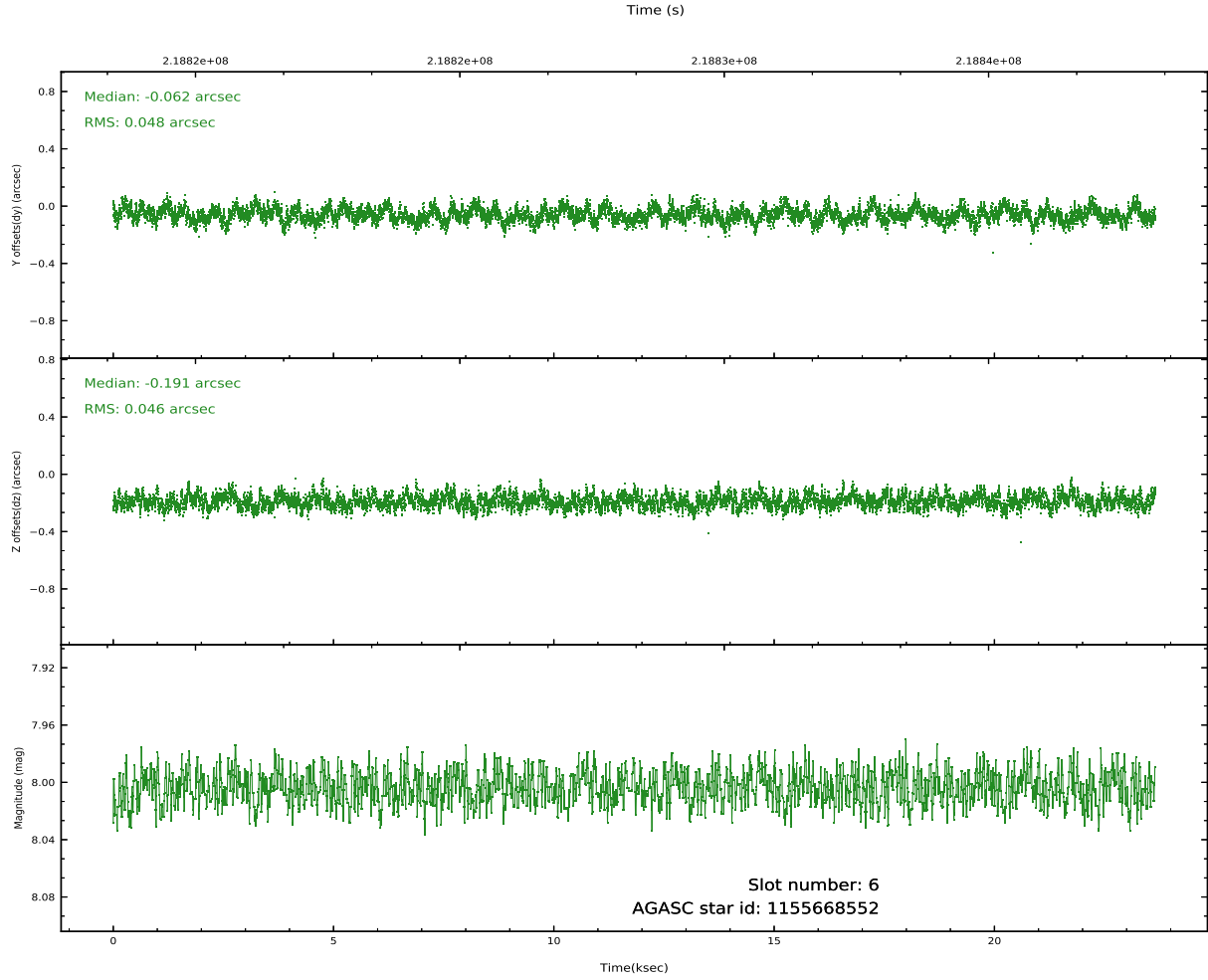
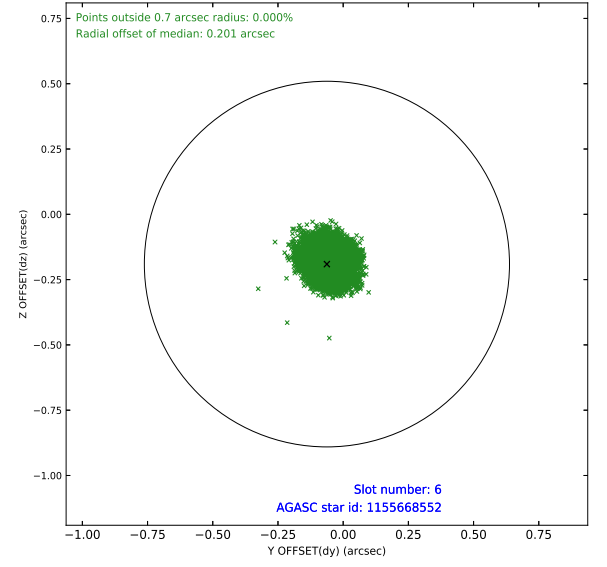
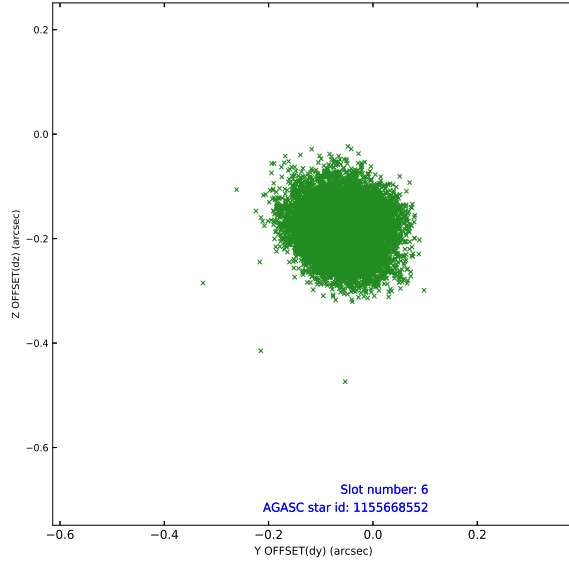
2.4.3 Slot 5



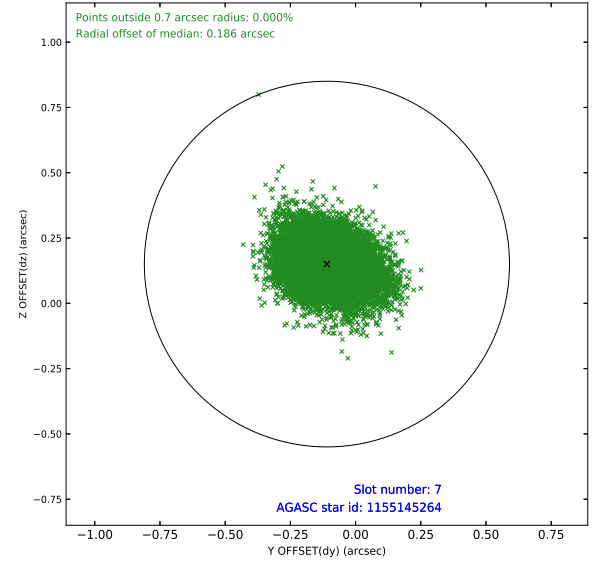
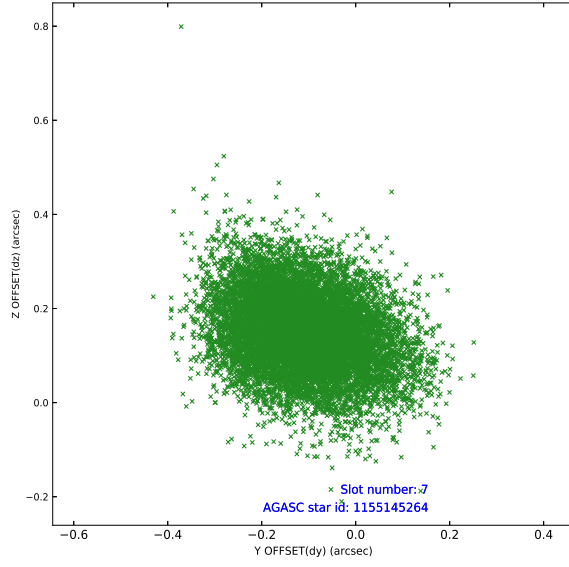
Time (s)



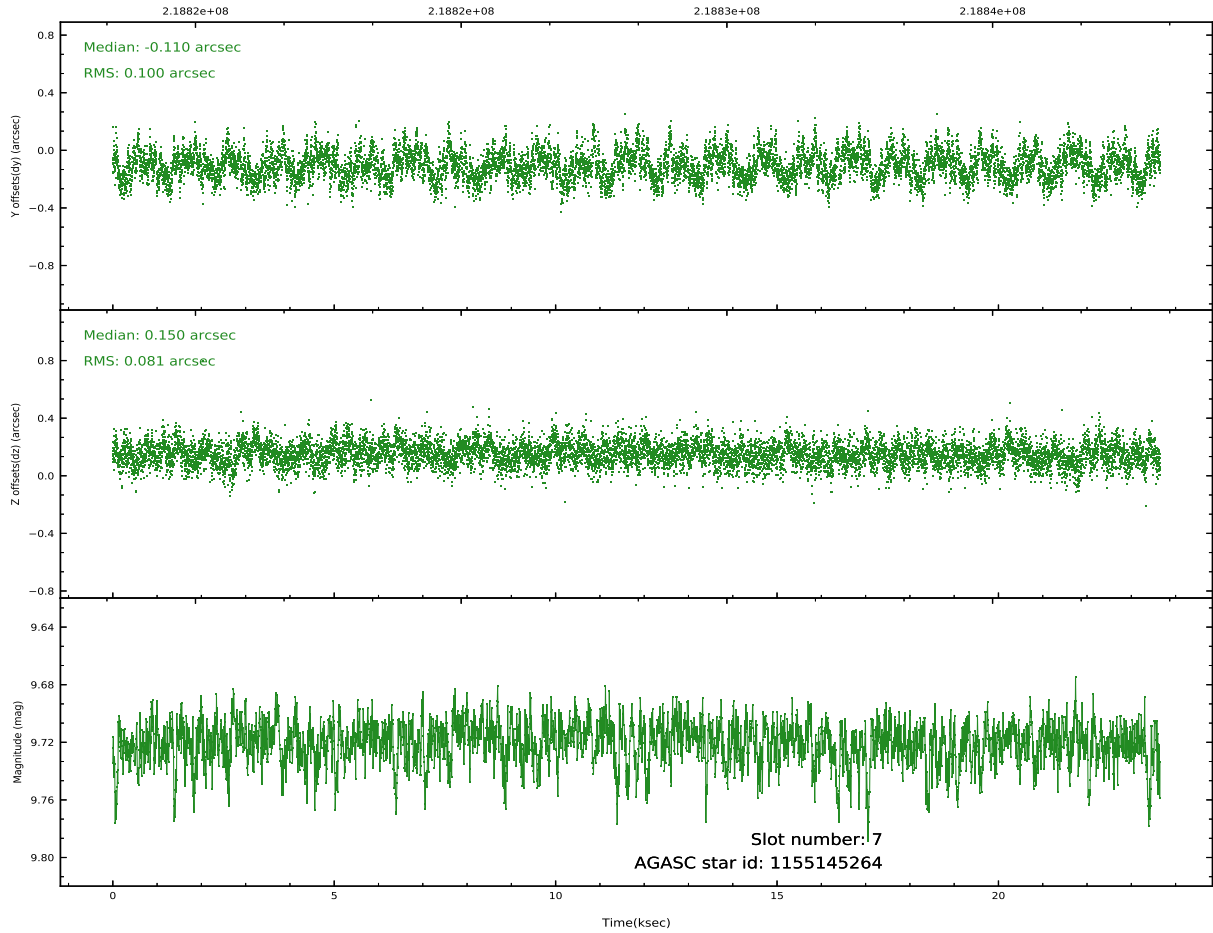
2.4.4 Slot 6



2.4.5 Slot 7

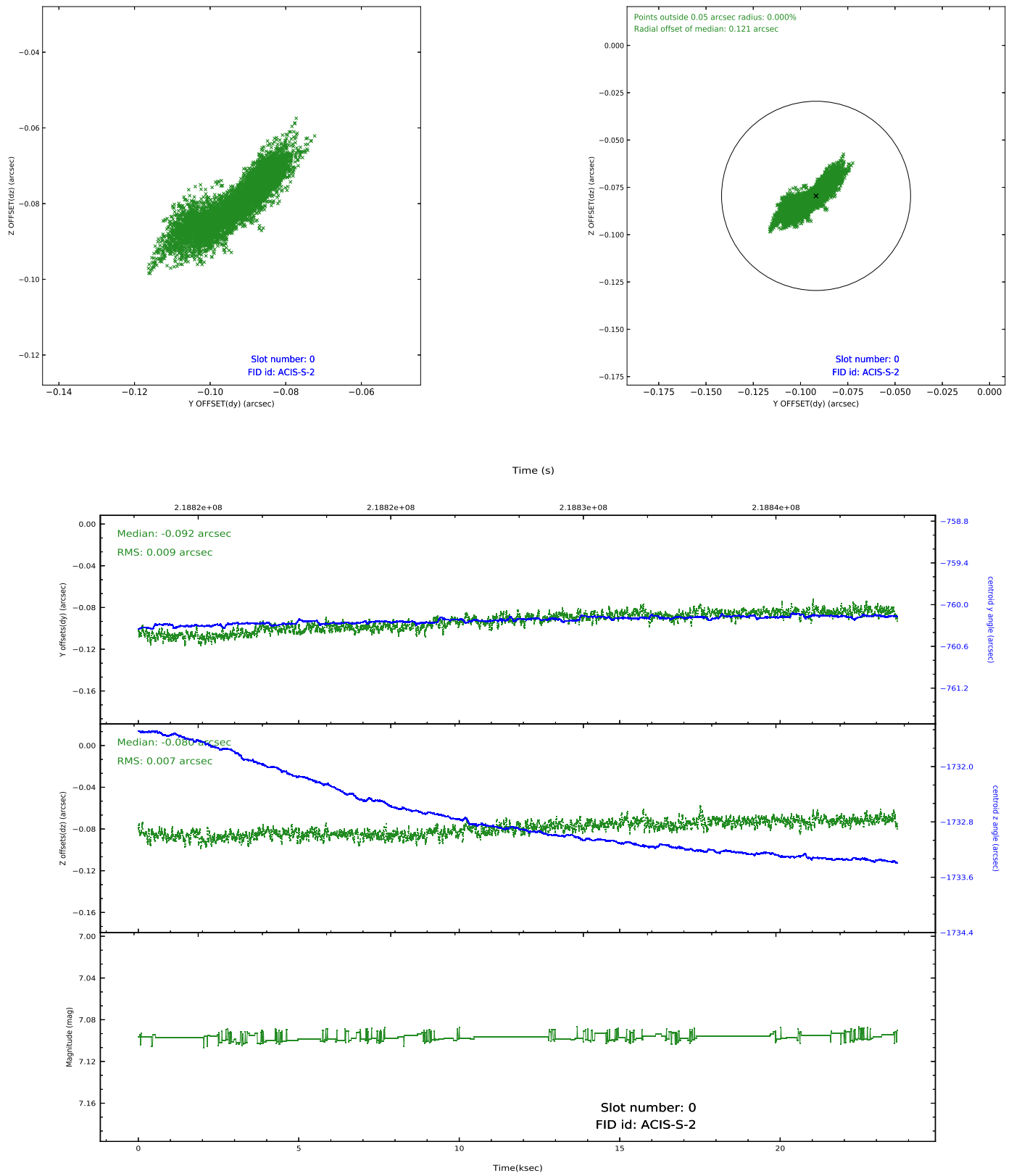


Time (s)

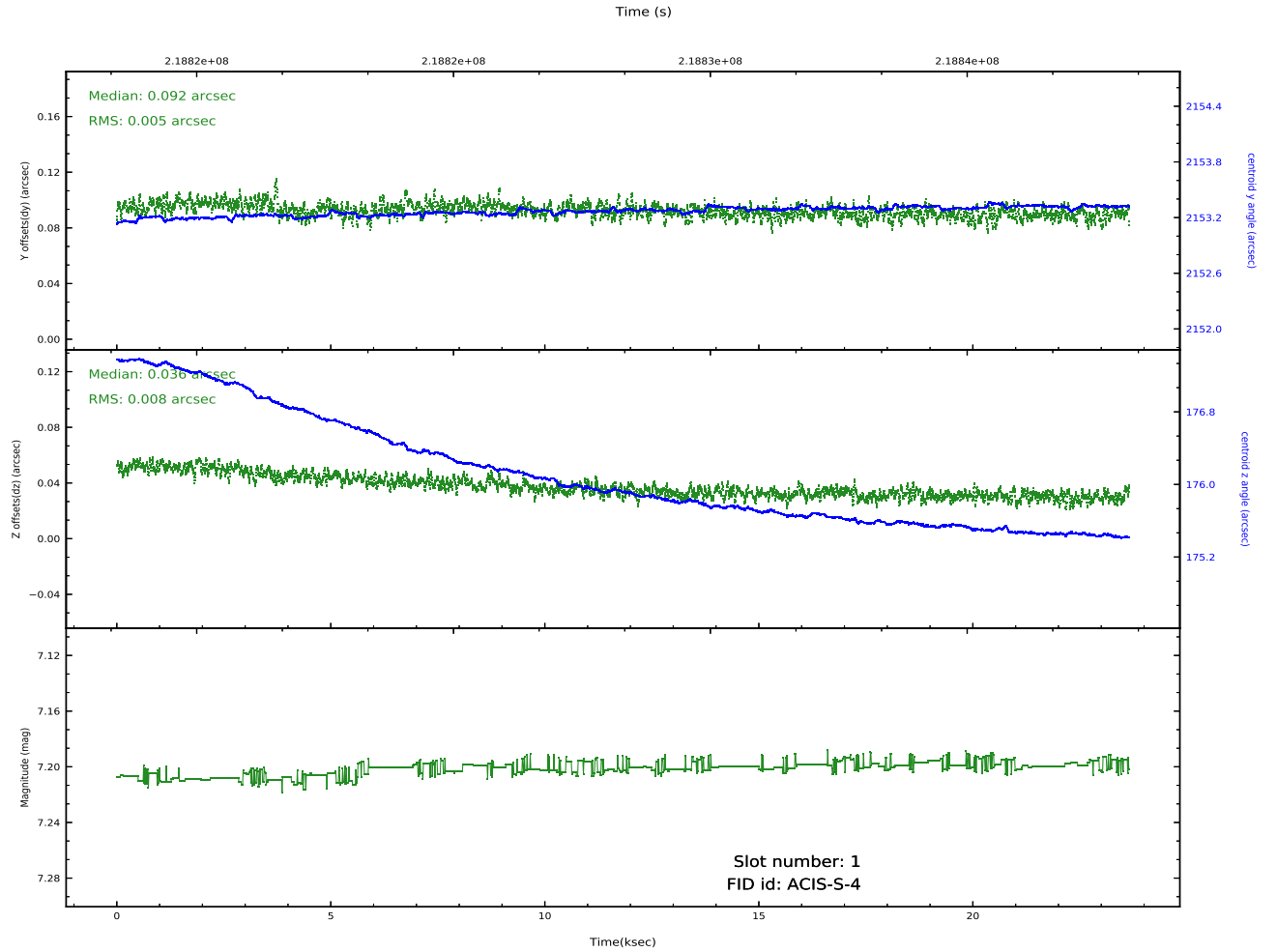
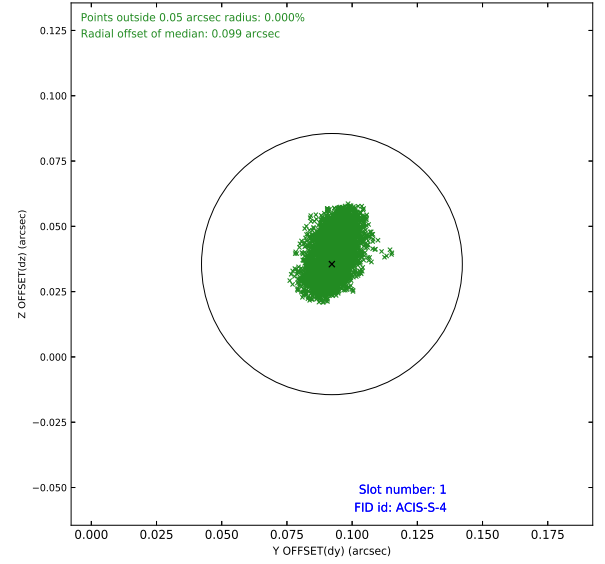
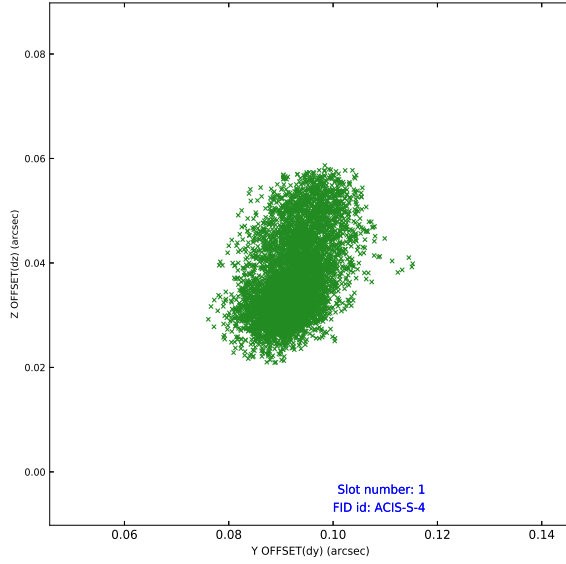


2.5 FID Slots

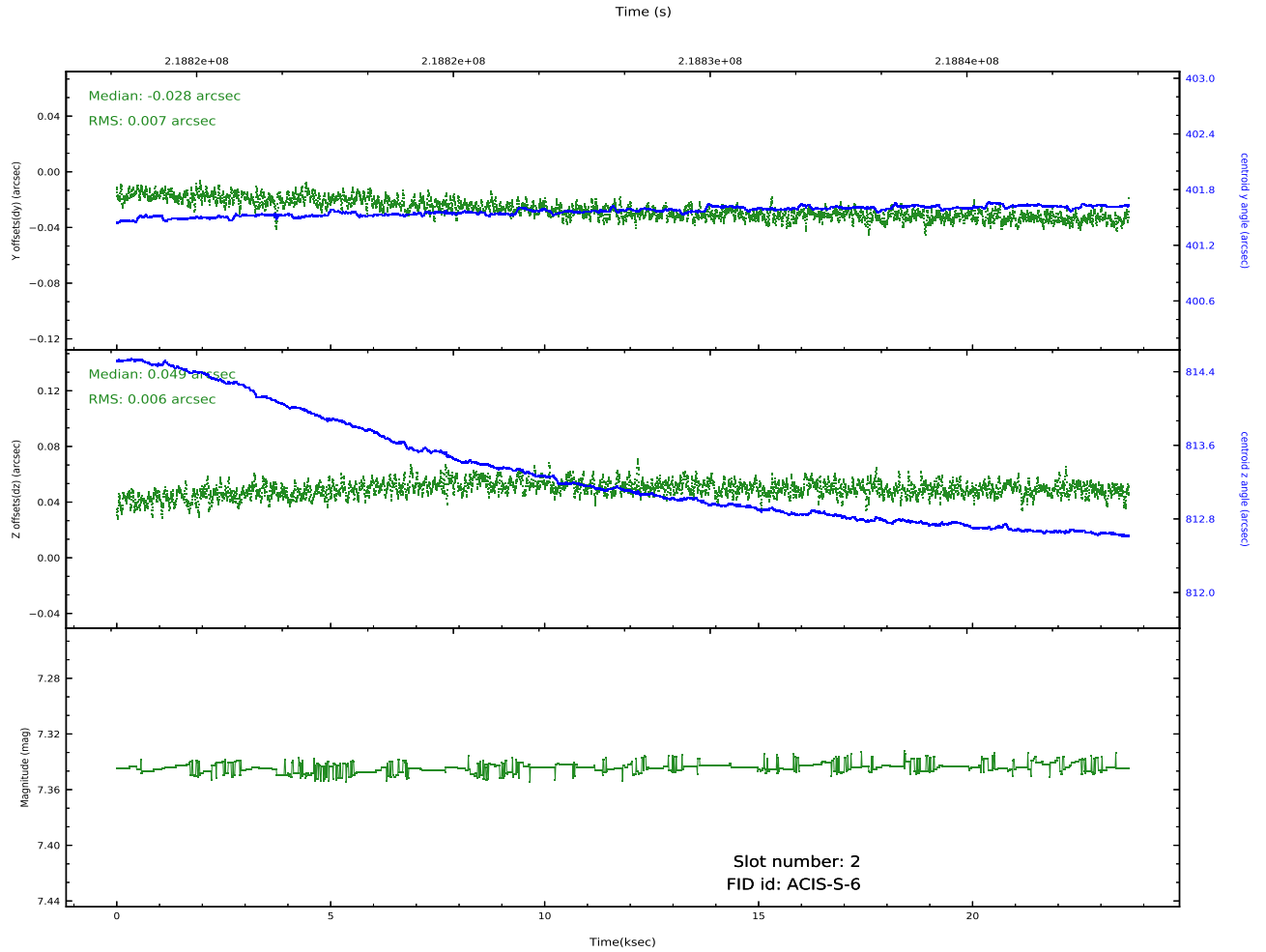
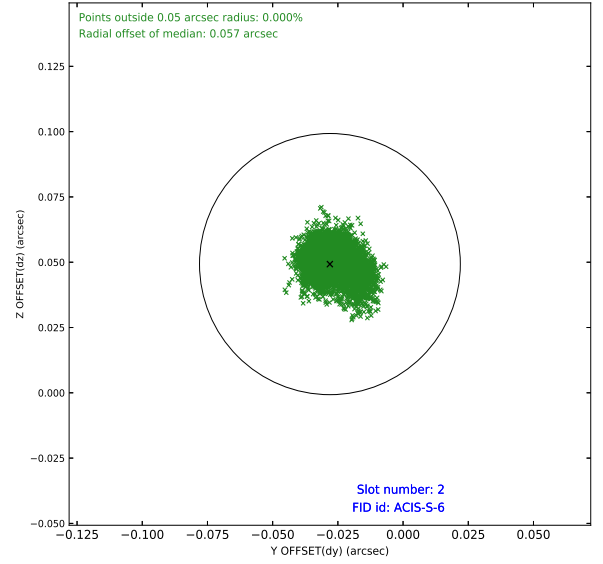
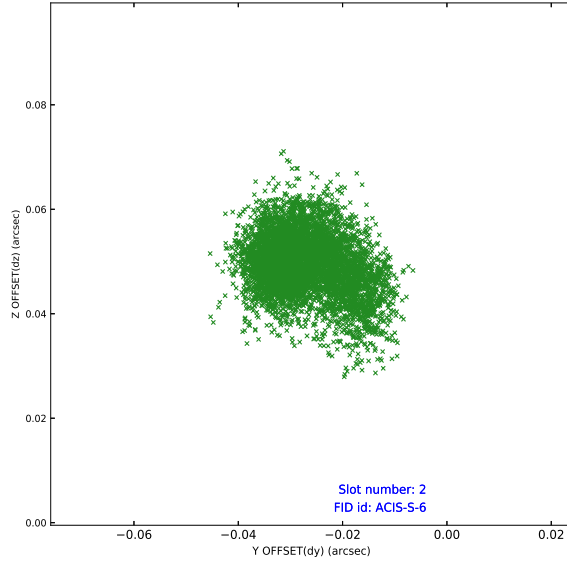
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.64799

A.2 Comments