

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19781 - L2 Version 2
Chandra X-Ray Center

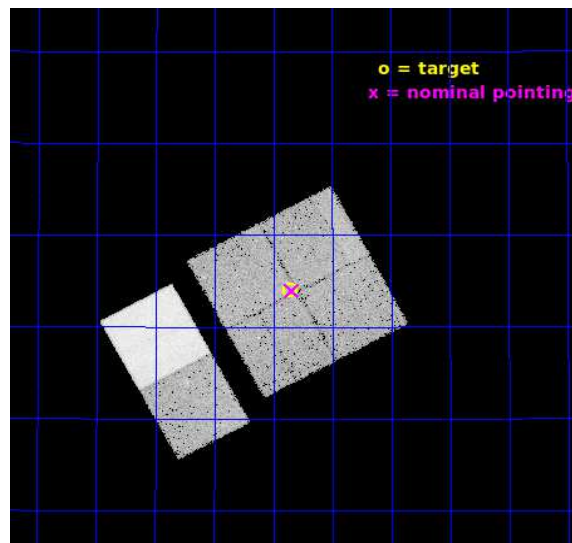
L2 Processing Date : Oct 26 2020

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1 Front

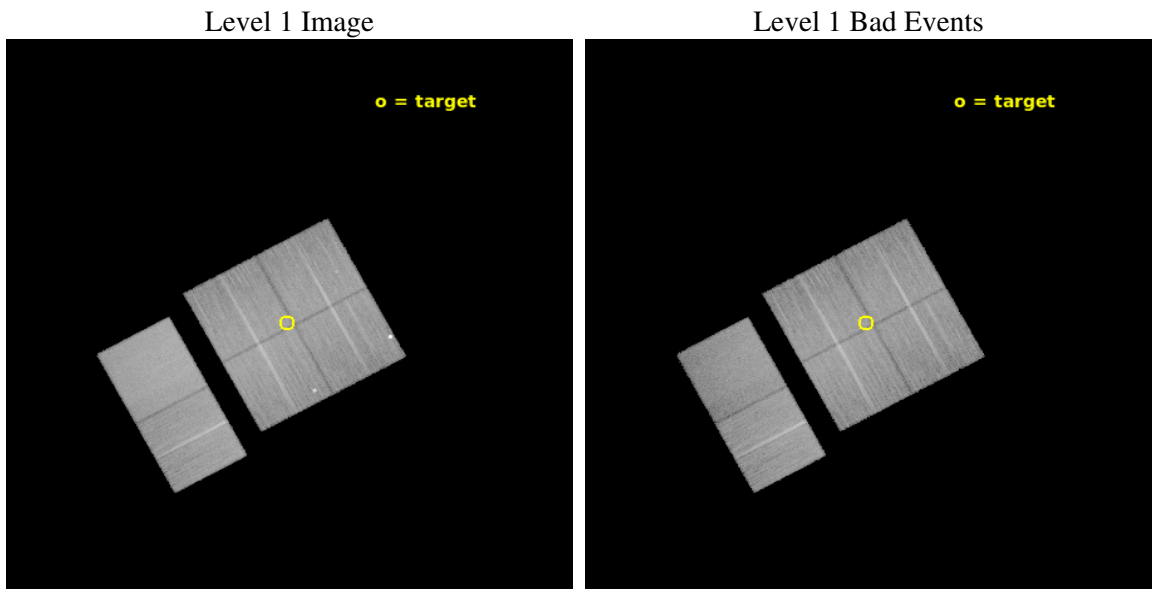
seq_num	901397	Sequence number
obs_id	19781	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field -- additional pointings	Proposal title
observer	Ralph Kraft	Principal investigator
object	XBootes	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.21419	Observer's specified target RA [deg]
dec_targ	34.901387	Observer's specified target Dec [deg]
ra_nom	217.21046584753	Nominal RA [deg]
dec_nom	34.899272859	Nominal Dec [deg]
roll_nom	241.55072699672	Nominal Roll [deg]
revision	2	Processing version of data
ontime	24949.588657498	Sum of GTIs [s]
livetime	24633.661943078	Livetime [s]
ontime0	24952.706567764	Sum of GTIs [s]
ontime1	24952.747607708	Sum of GTIs [s]
ontime2	24949.547637463	Sum of GTIs [s]
ontime3	24949.588657498	Sum of GTIs [s]
ontime6	24952.911767721	Sum of GTIs [s]
ontime7	24952.870727777	Sum of GTIs [s]
l2events	190879	Number of level 2 events



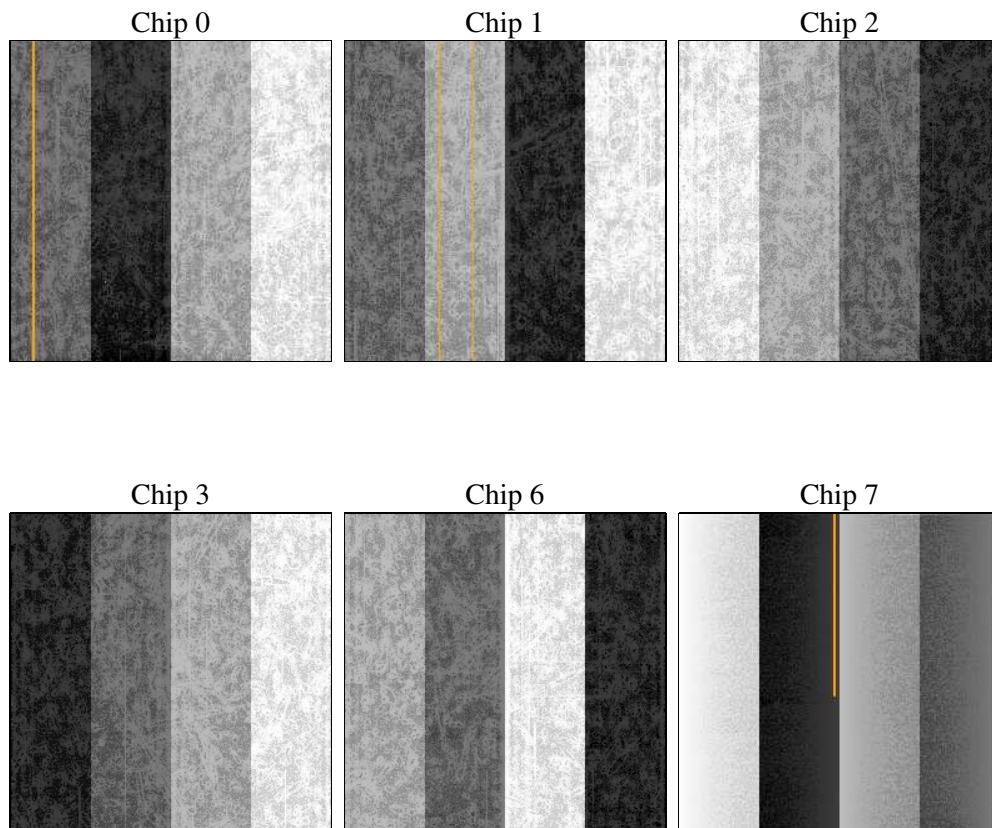
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	24949.588657498	Sum of GTIs [s]
caldbver	4.9.3	 	ontime0	24952.706567764	Sum of GTIs [s]
date	2020-10-26T18:06:54	Date and time of file creation	ontime1	24952.747607708	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	24949.547637463	Sum of GTIs [s]
			ontime3	24949.588657498	Sum of GTIs [s]
			ontime6	24952.911767721	Sum of GTIs [s]
			ontime7	24952.870727777	Sum of GTIs [s]
			l1events	1173970	Number of level 1 events

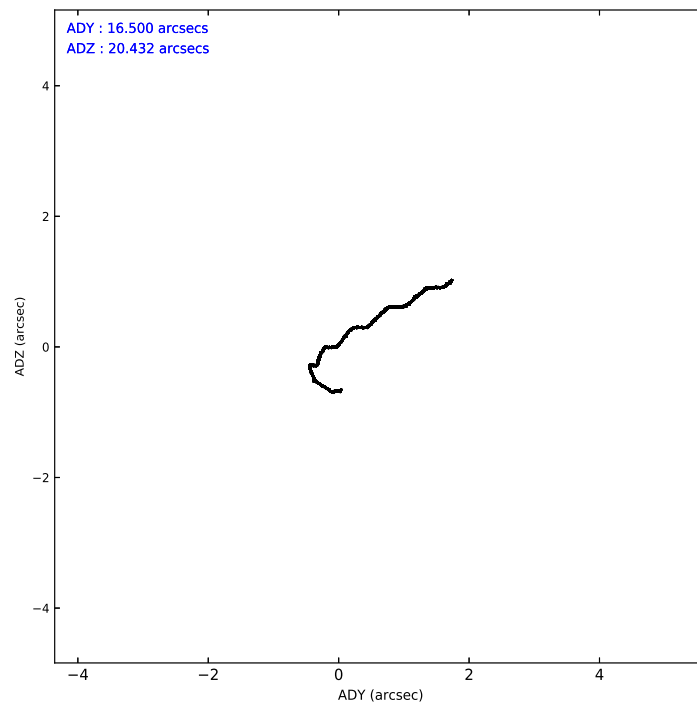
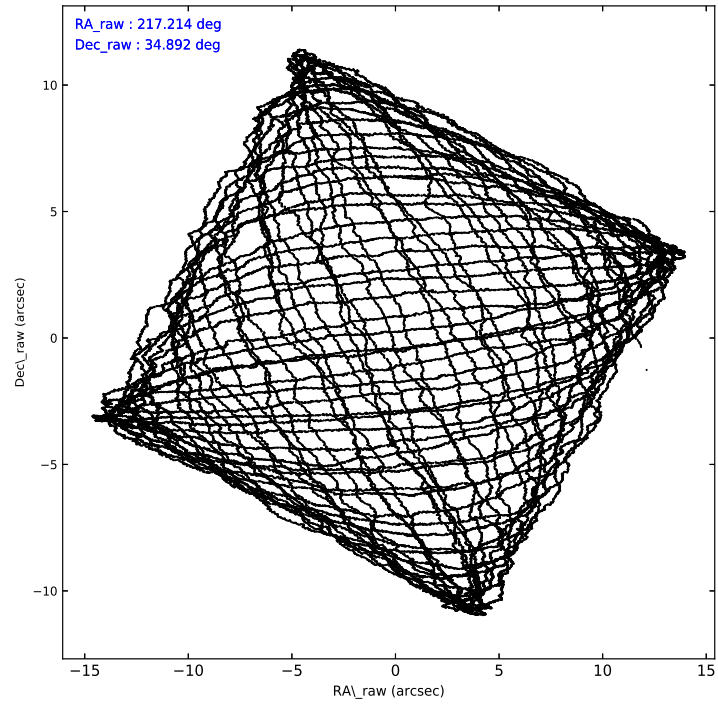
2.1.4 Events

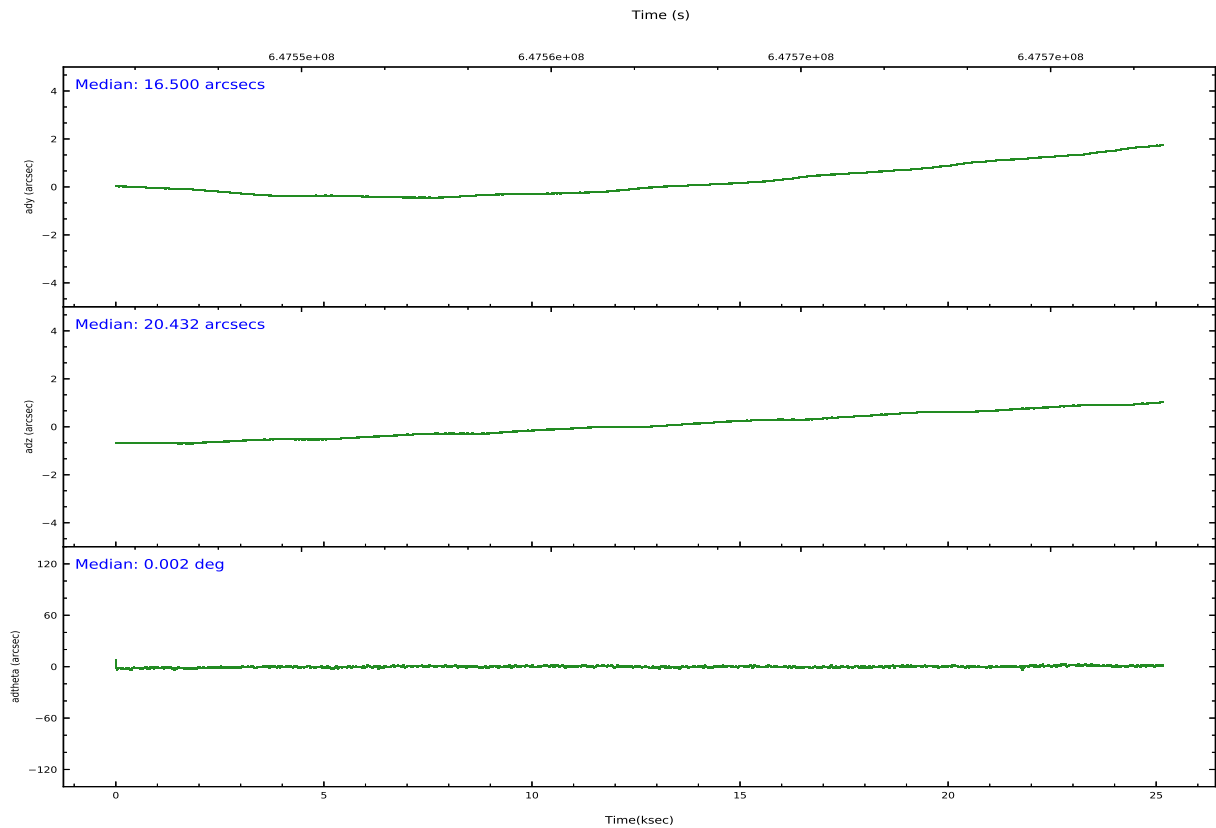
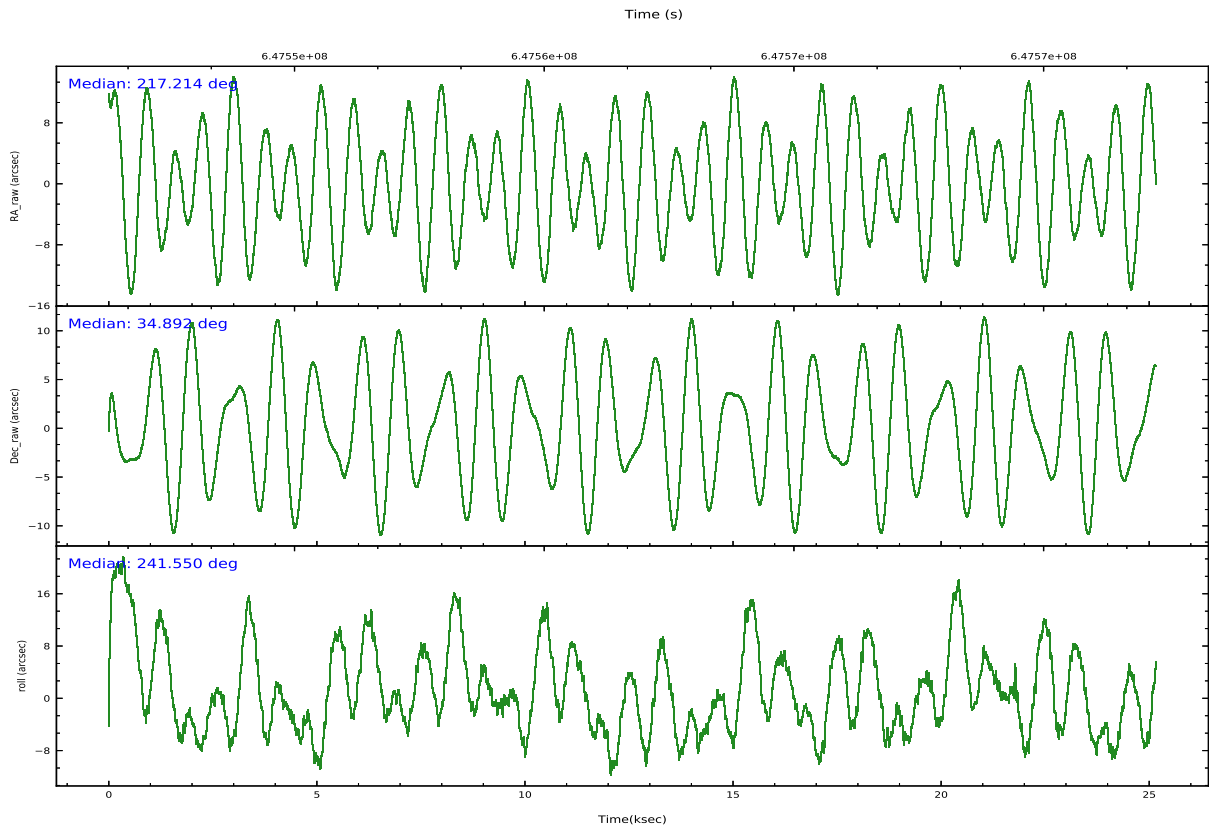
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	179988	178840	195535	181509	196332	241766	grade 0 events	14563	8009	9166	7001	7084	8860
rejected events	151384	155354	173278	161869	174771	136543		8%	4%	4%	3%	3%	3%
rejected %	84%	86%	88%	89%	89%	56%	grade 1 events	126	98	123	94	100	319
								0%	0%	0%	0%	0%	0%
							grade 2 events	5363	6020	5114	4343	5159	22462
								2%	3%	2%	2%	2%	9%
							grade 3 events	2162	2160	2011	2113	2096	8383
								1%	1%	1%	1%	1%	3%
							grade 4 events	2003	2149	2041	2108	2095	8187
								1%	1%	1%	1%	1%	3%
							grade 5 events	7991	8159	7754	8963	8939	24122
								4%	4%	3%	4%	4%	9%
							grade 6 events	4520	5154	3930	4078	5130	57358
								2%	2%	2%	2%	2%	23%
							grade 7 events	143260	147091	165396	152809	165729	112075
								79%	82%	84%	84%	84%	46%

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	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	217.212909	217.21046584753	CCD I2 on	Y	Y
[deg] Pointing Dec	34.919745	34.899272859	CCD I3 on	Y	Y
[deg] Pointing Roll	241.347229	241.55072699672	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	647549704.184000	647548653.65721	CCD S5 on	N	N
Observation start date	2018-07-09T18:53:55	2018-07-09T18:37:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	647574704.184000	647575378.48379	On-chip summing requested	N	N
Observation end date	2018-07-10T01:50:35	2018-07-10T02:02:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect





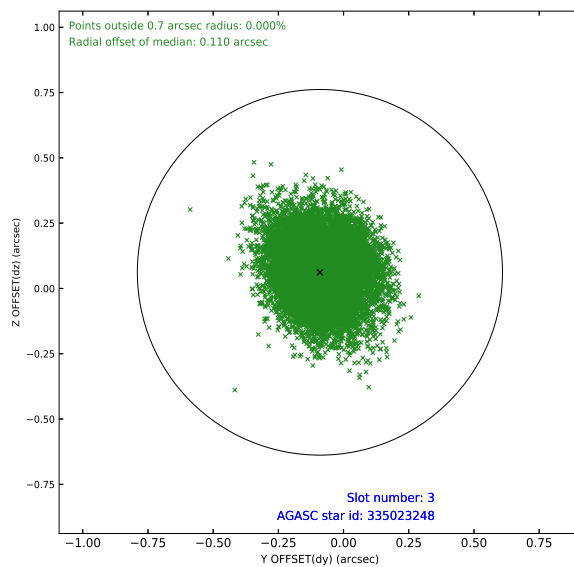
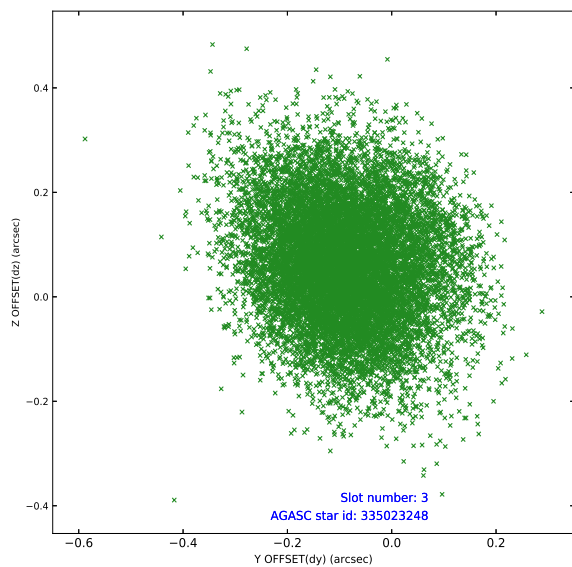
Slot Statistics

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-2	7.06	6138	1.000	0.080	-0.003	0.015	0.025	0.000000	0.000000	-771.48	-850
1	FID		ACIS-I-4	7.08	6138	1.000	0.121	-0.026	0.016	0.029	0.000000	0.000000	2142.69	1055
2	FID		ACIS-I-5	7.13	6138	1.000	-0.303	0.098	0.022	0.033	0.000000	0.000000	-1825.42	1053
3	GUIDE	used	335023248	8.91	12264	1.000	-0.091	0.062	0.161	0.258	217.634832	34.944512	-677.44	1048
4	GUIDE	used	335028336	9.41	12261	1.000	-0.160	-0.229	0.201	0.325	217.189840	34.665629	835.67	379
5	GUIDE	used	335030384	8.78	12264	1.000	0.146	0.158	0.168	0.288	216.806407	34.722197	1199.44	-715
6	GUIDE	used	335414448	7.34	12272	1.000	-0.034	0.123	0.113	0.206	216.992261	35.577204	-1766.39	-1700
7	GUIDE	used	335417968	9.38	12259	1.000	0.140	-0.120	0.170	0.272	217.358149	35.055285	-633.02	141

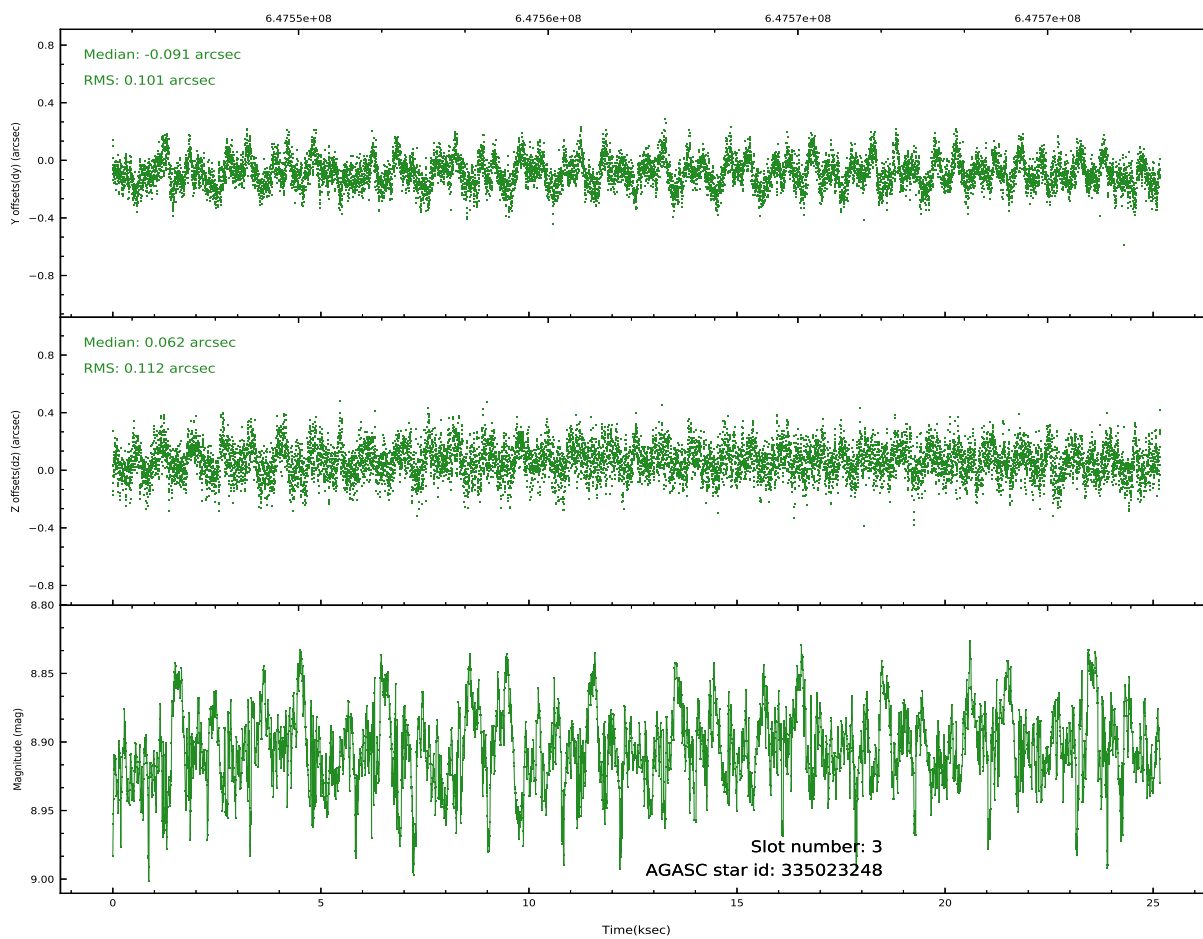
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2.4 Star Slots

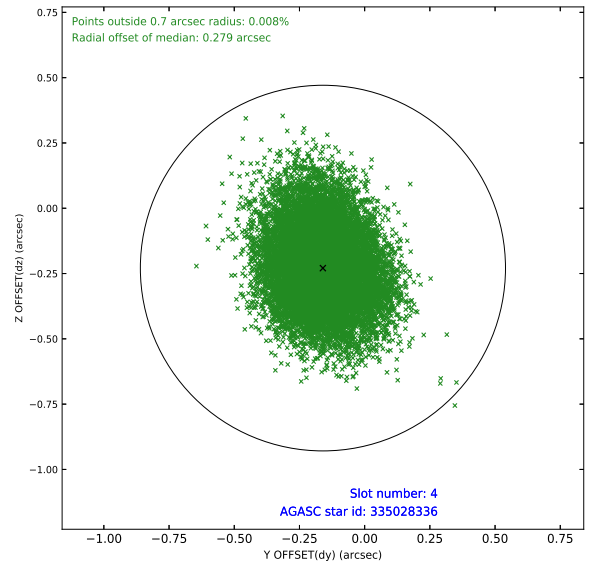
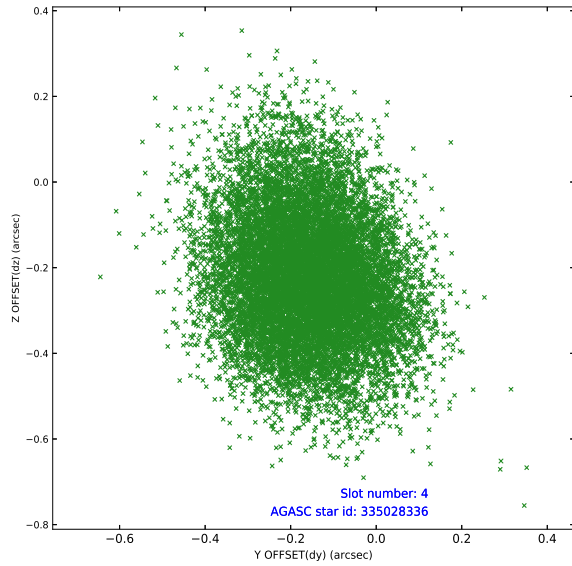
2.4.1 Slot 3



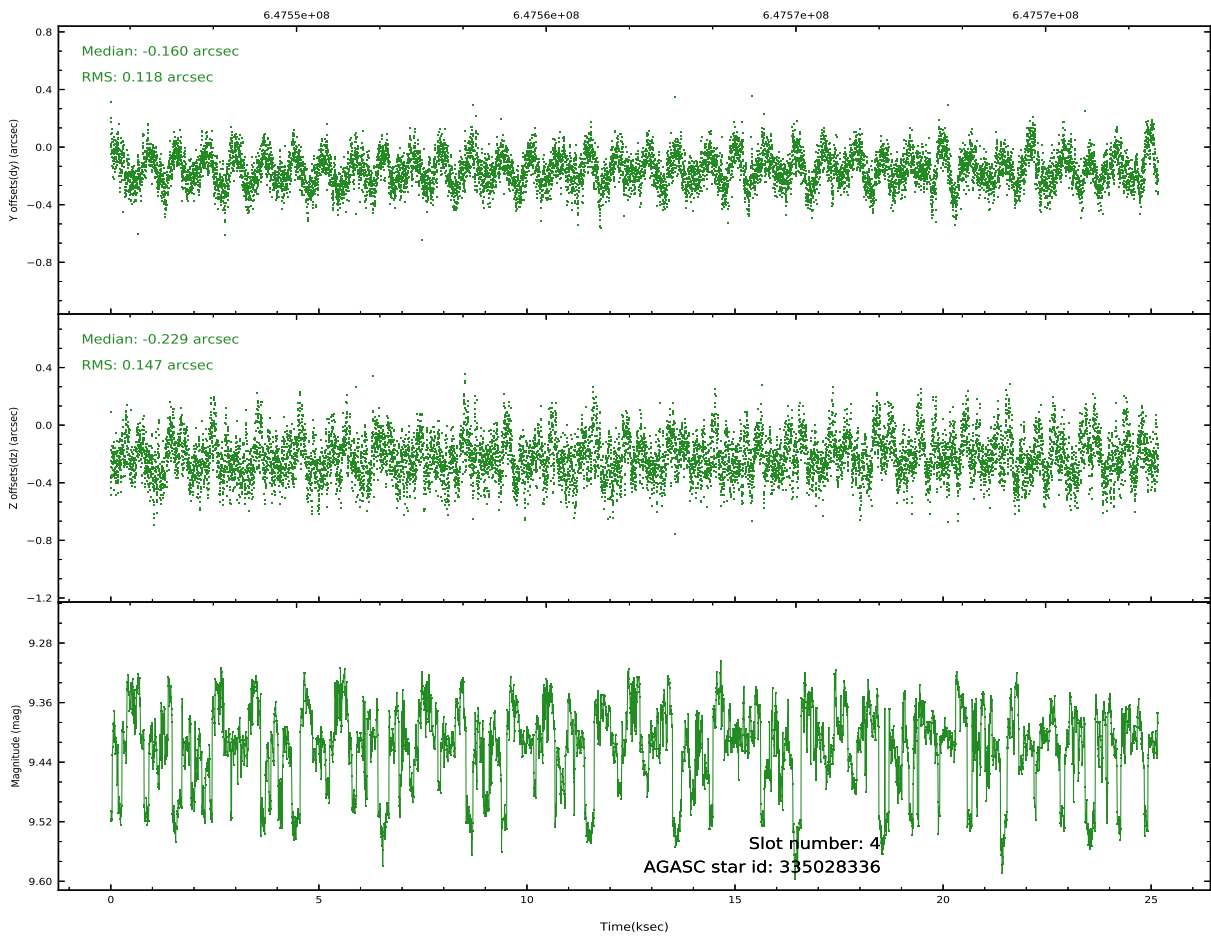
Time (s)



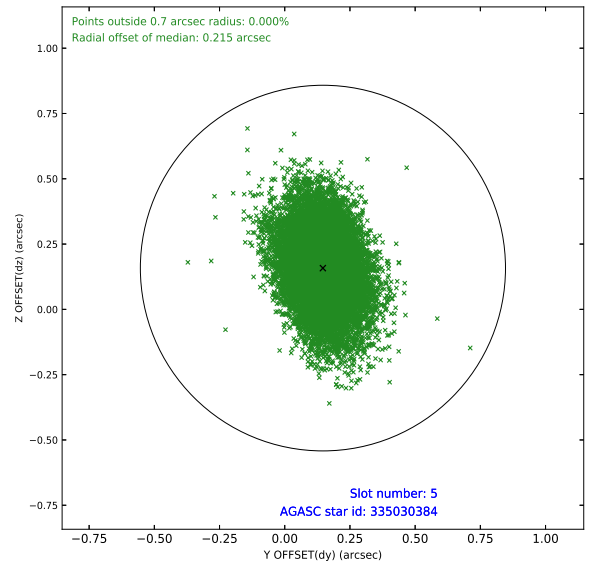
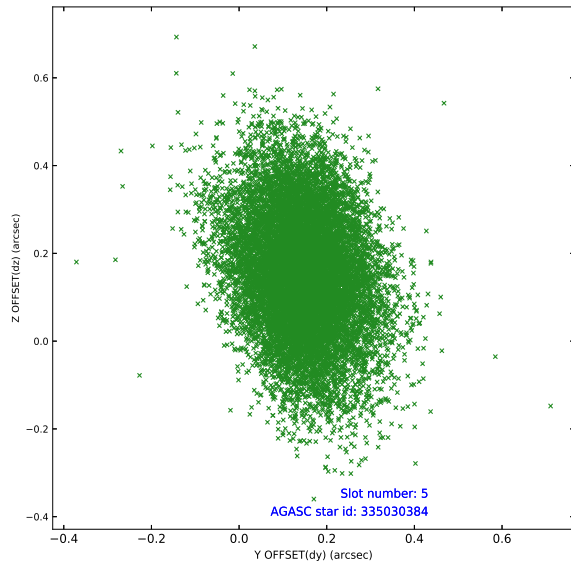
2.4.2 Slot 4



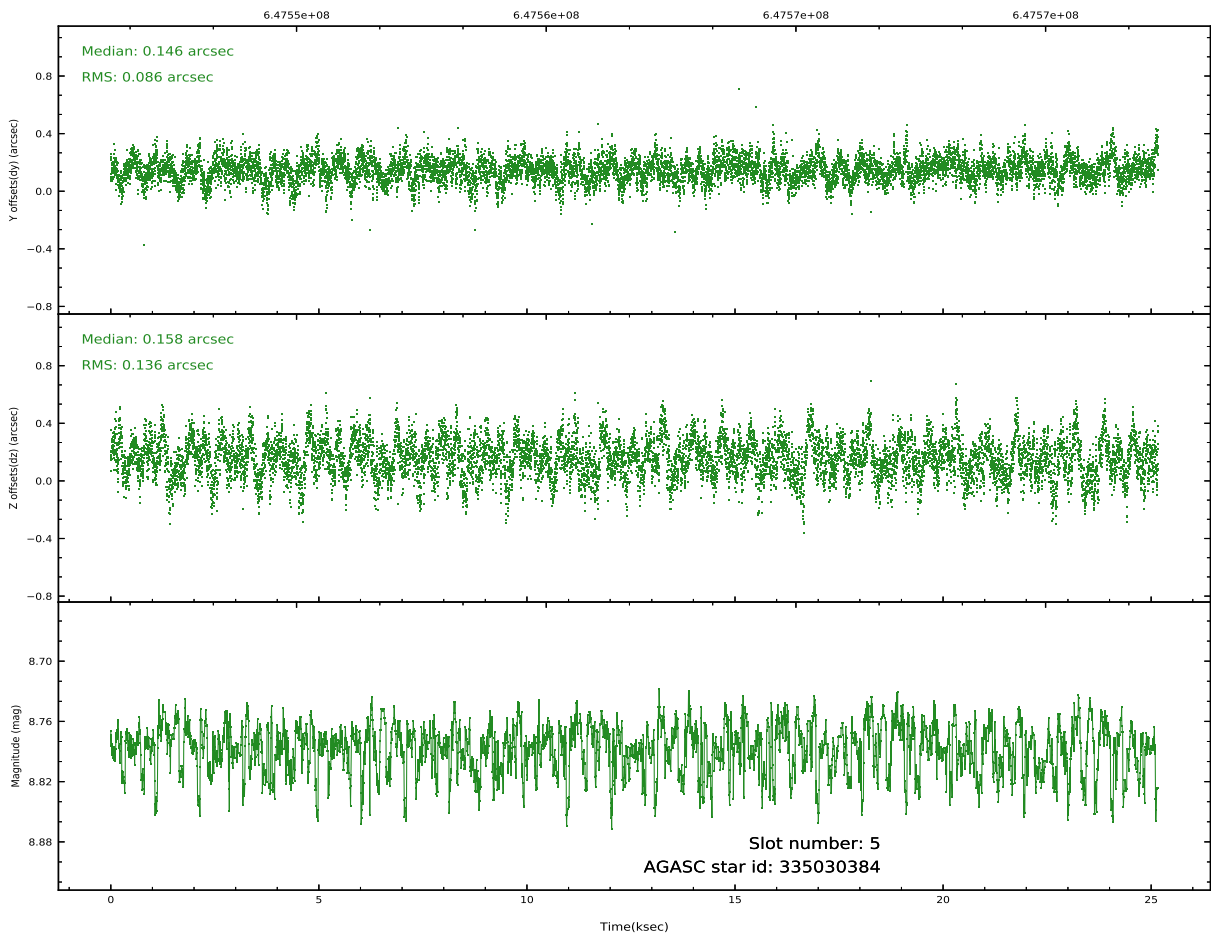
Time (s)



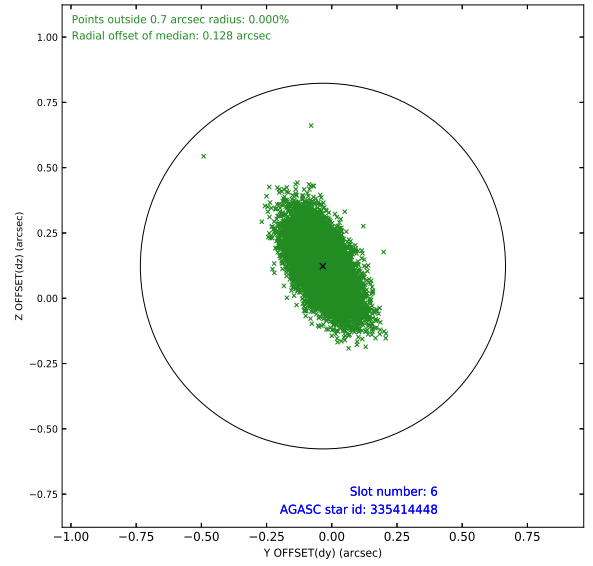
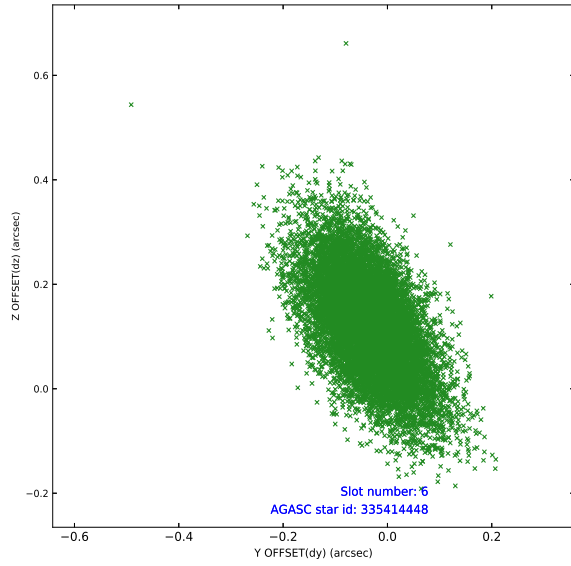
2.4.3 Slot 5



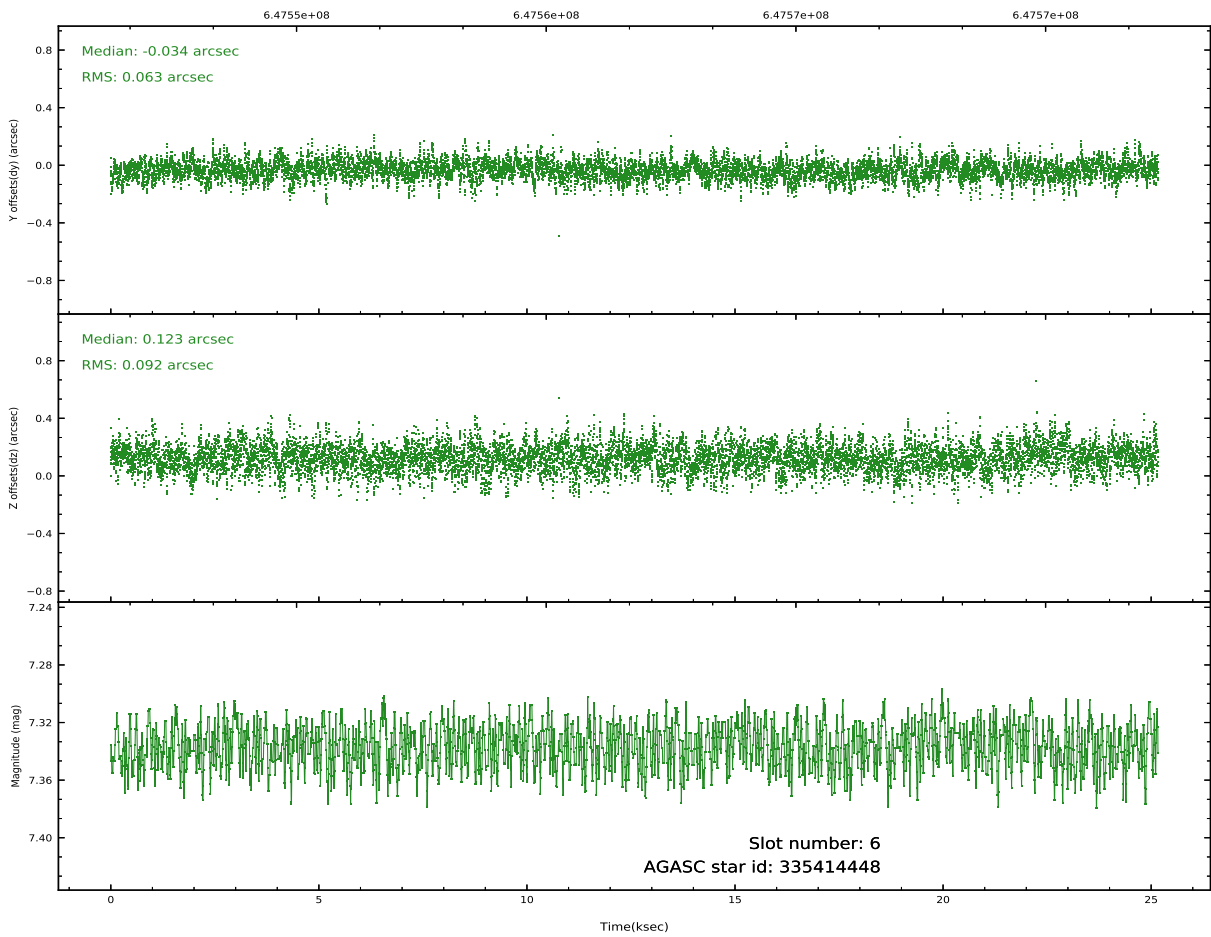
Time (s)



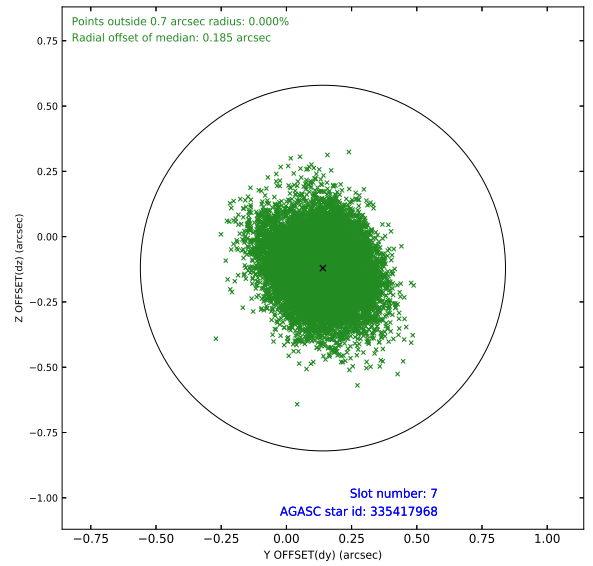
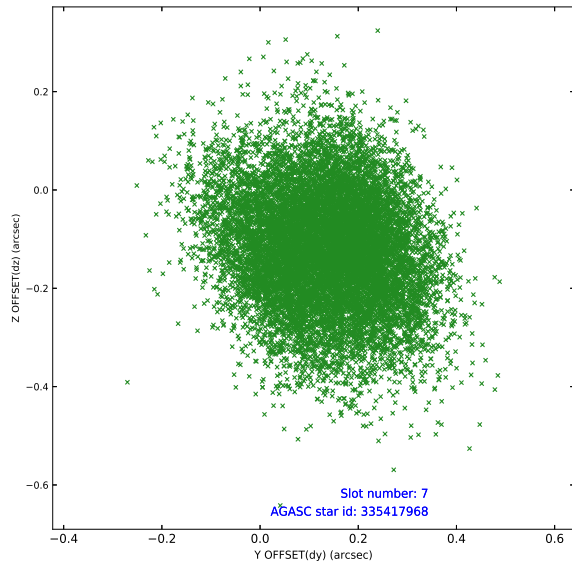
2.4.4 Slot 6



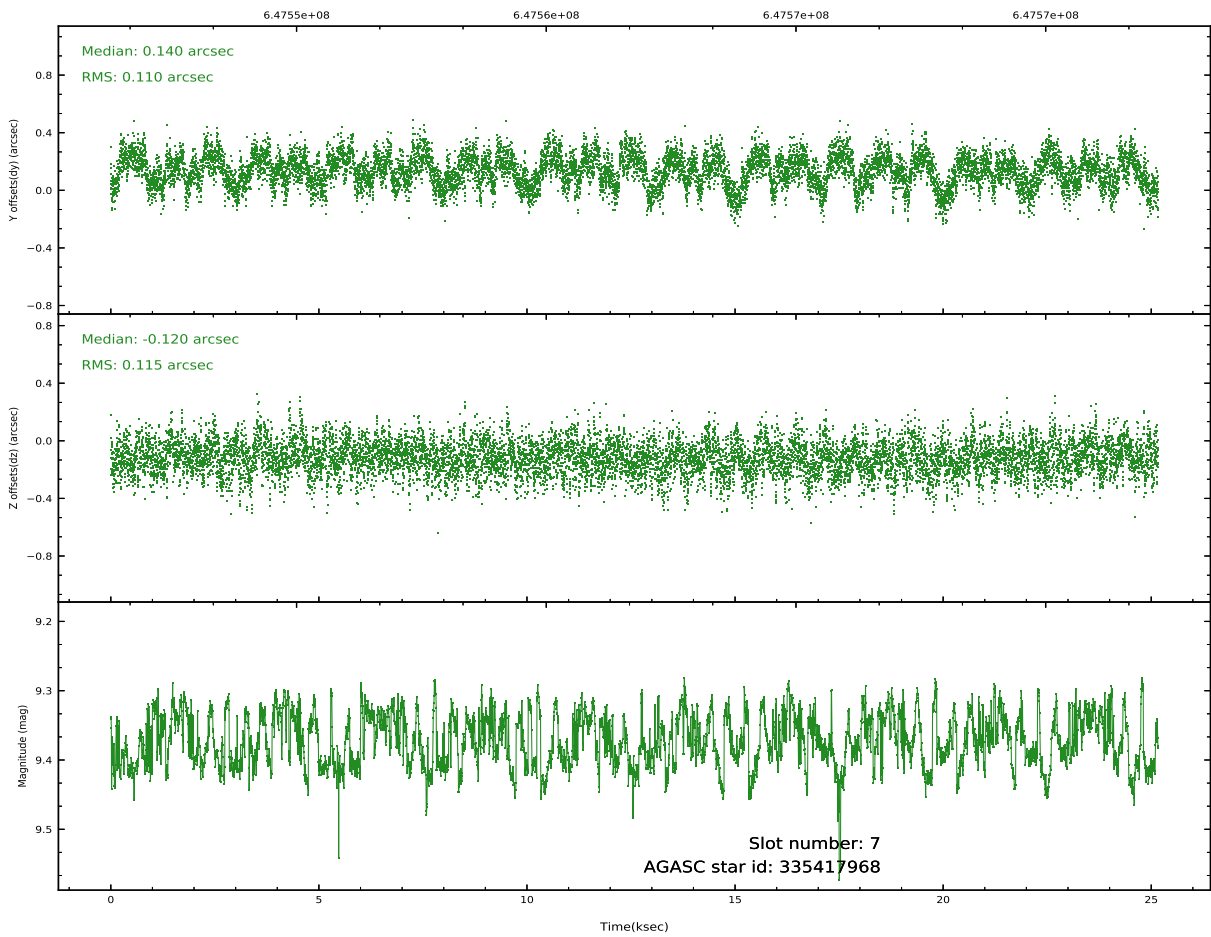
Time (s)



2.4.5 Slot 7

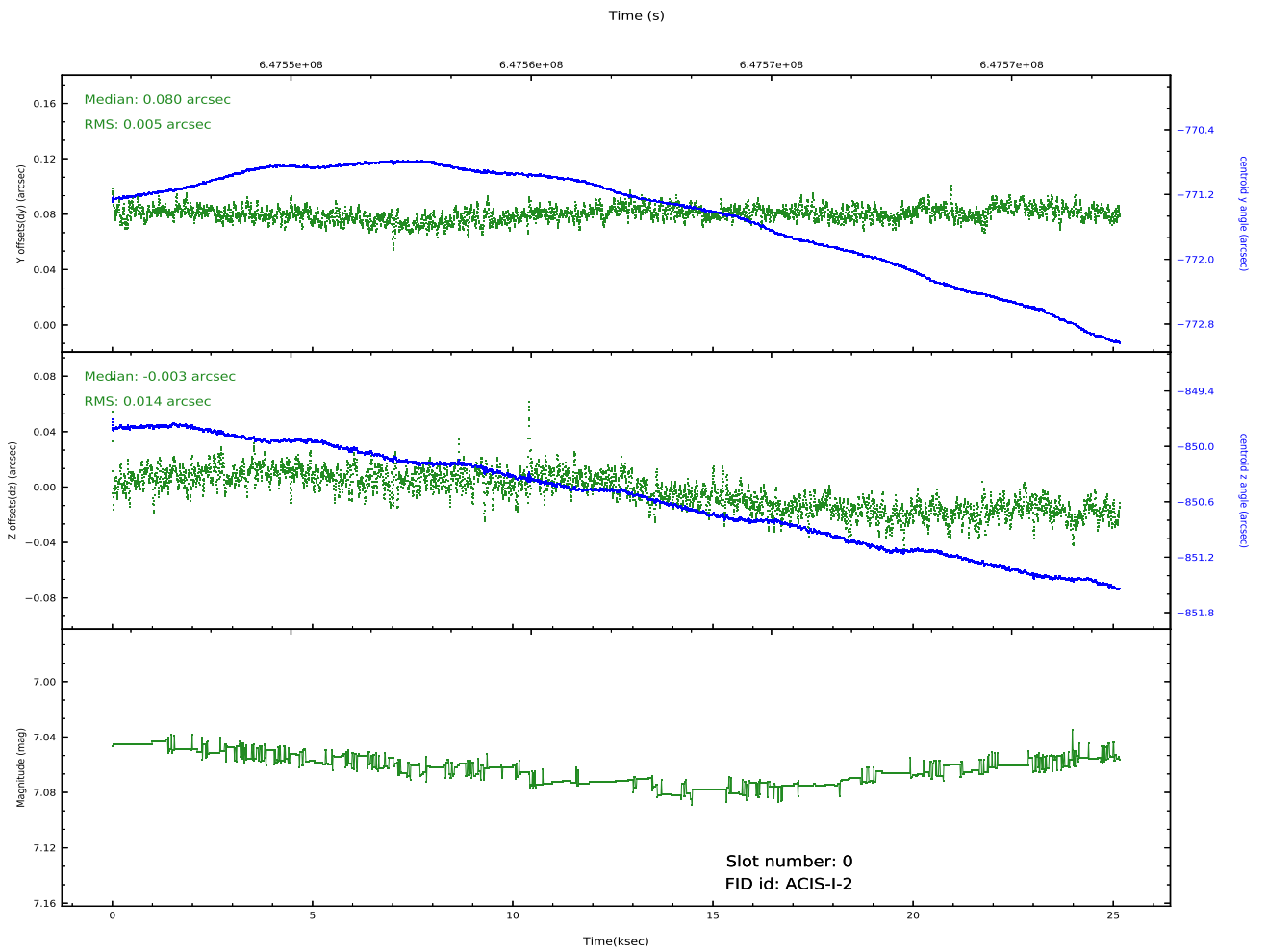
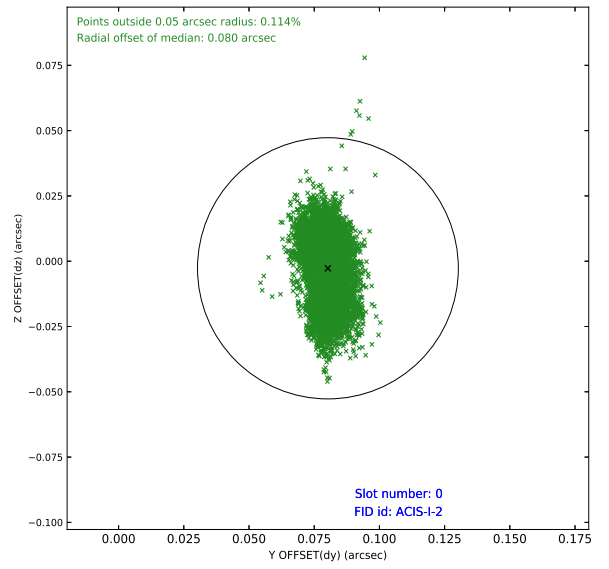
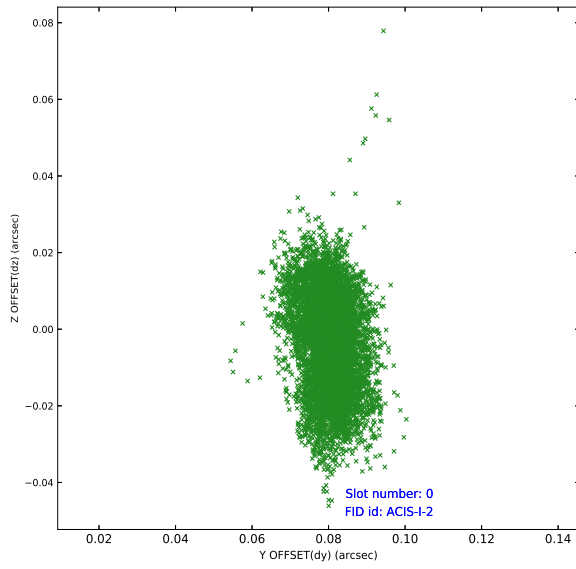


Time (s)

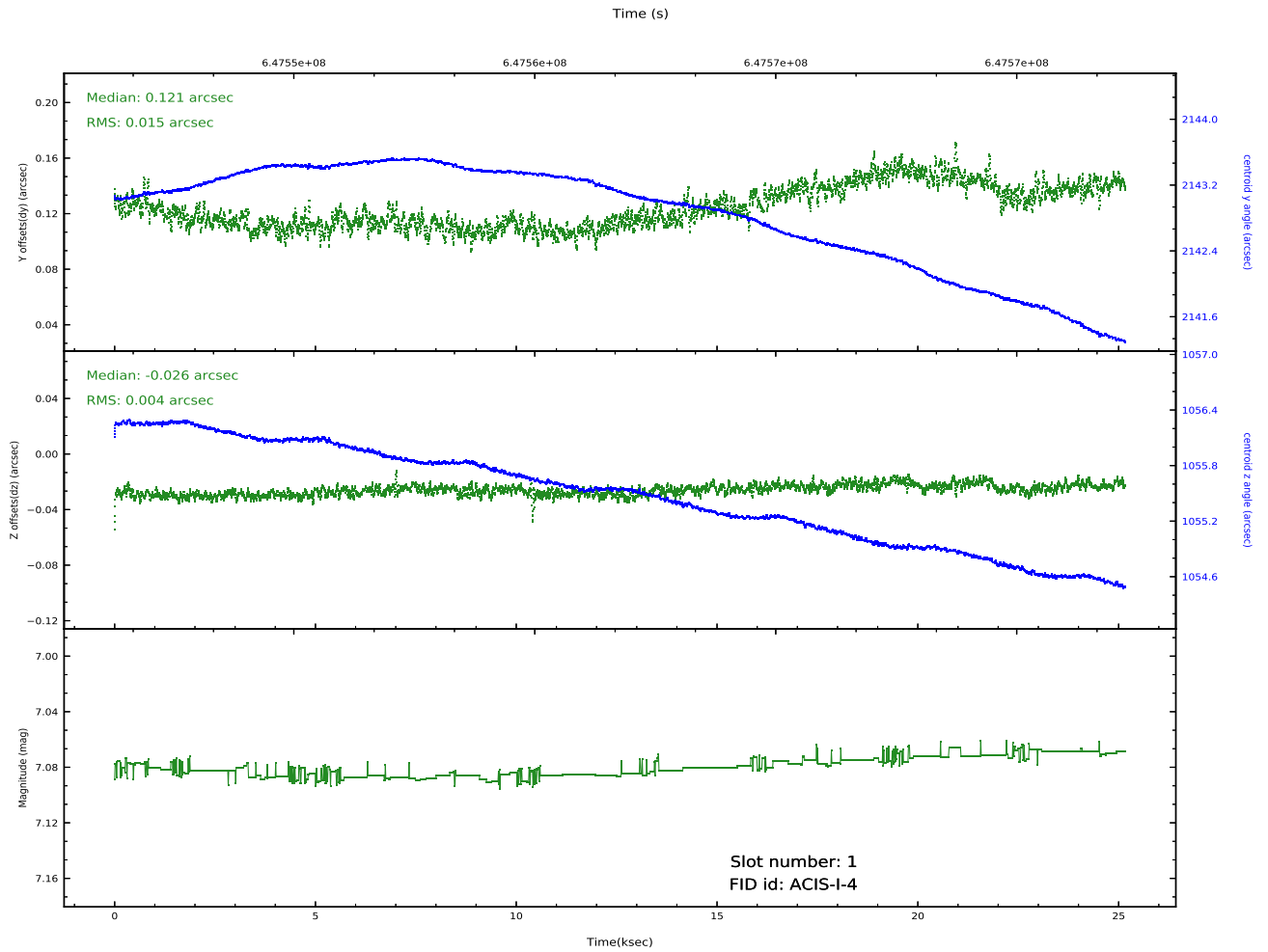
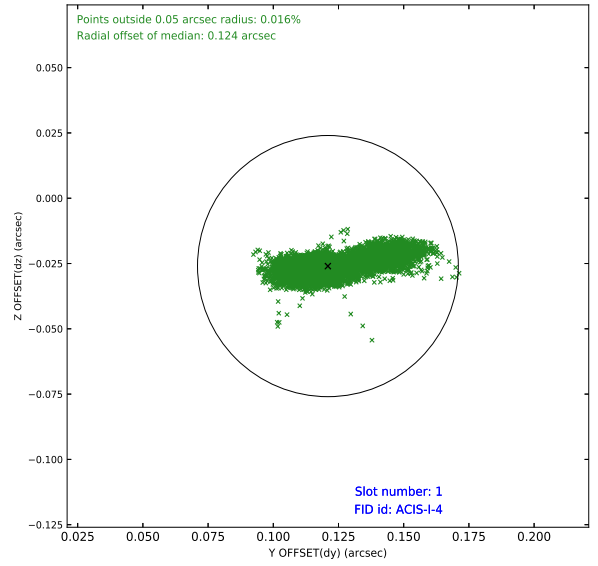
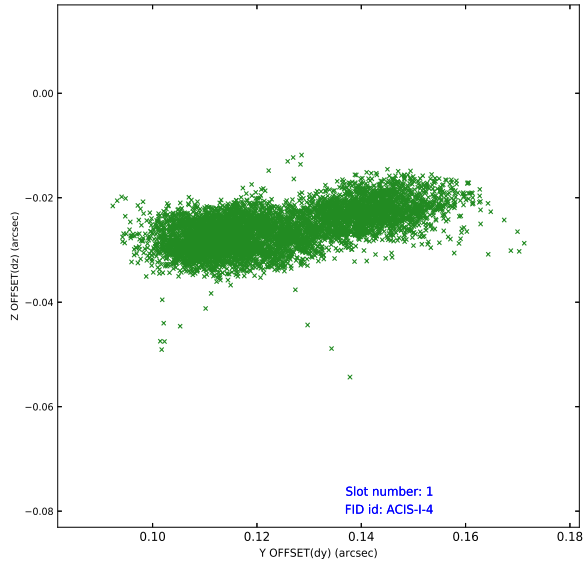


2.5 FID Slots

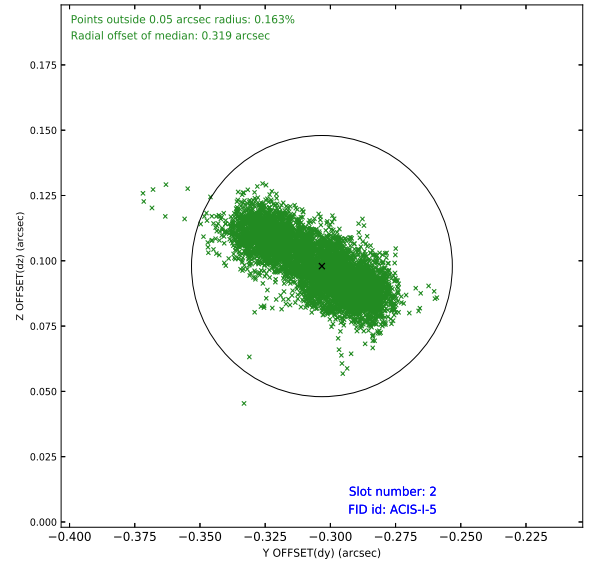
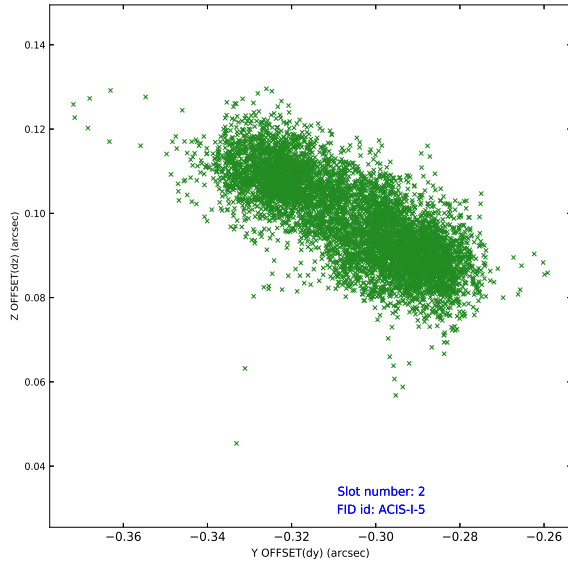
2.5.1 Slot 0



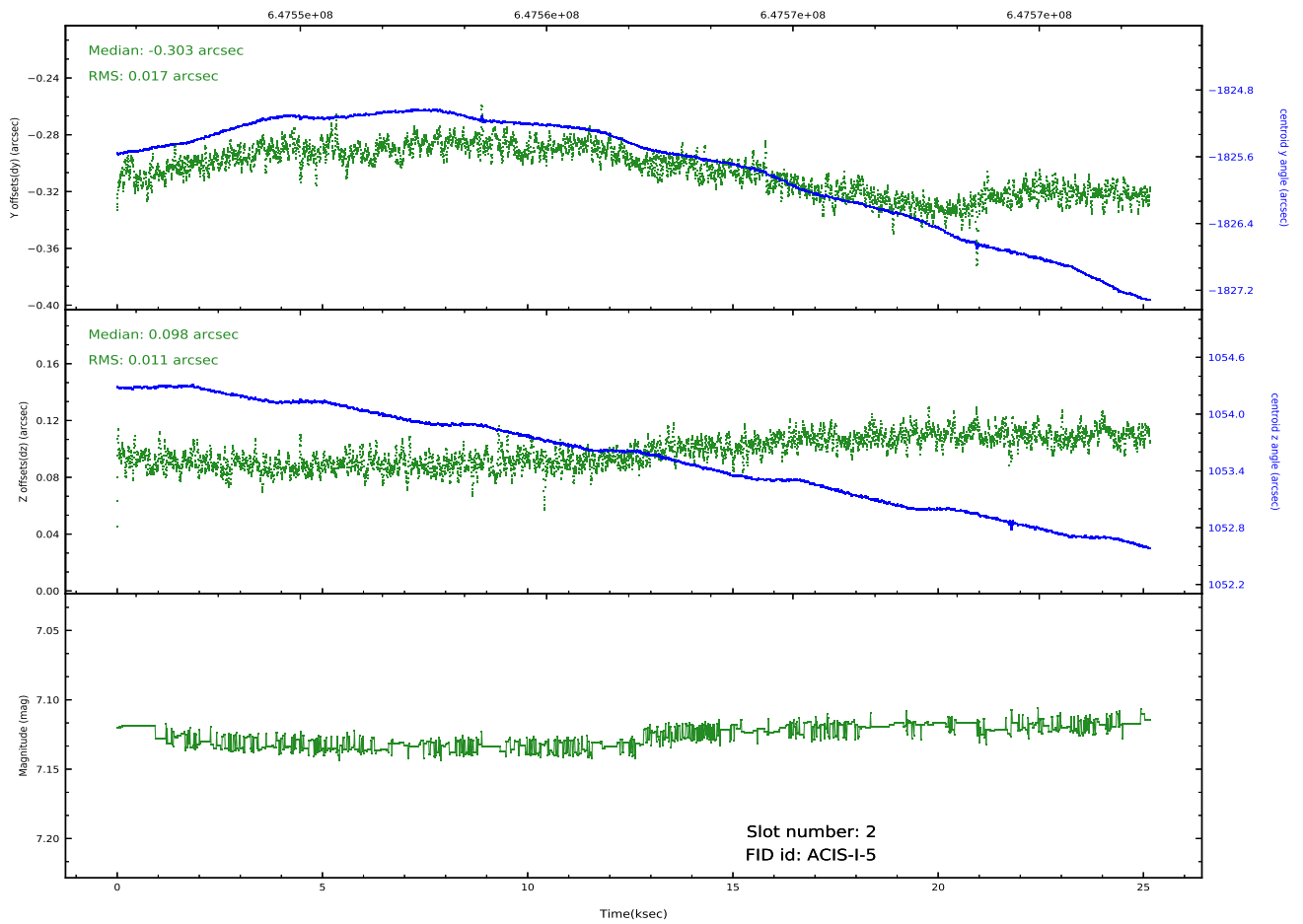
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.949588654518

A.2 Comments