

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19680 - L2 Version 2
Chandra X-Ray Center

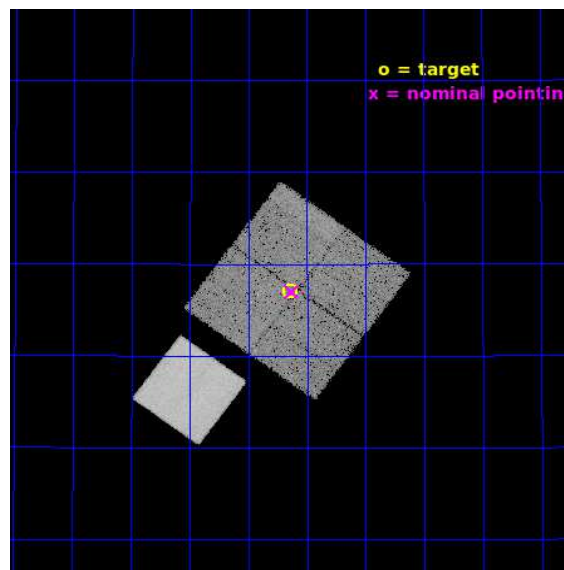
L2 Processing Date : Oct 26 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

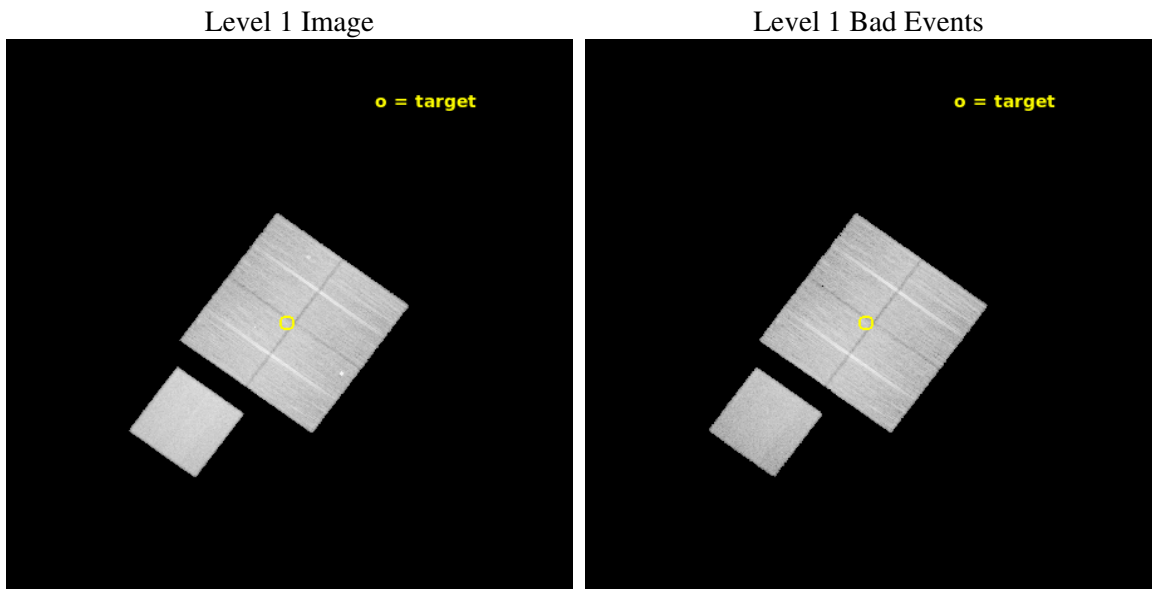
seq_num	901387	Sequence number
obs_id	19680	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.9121	Observer's specified target RA [deg]
dec_targ	35.450983	Observer's specified target Dec [deg]
ra_nom	217.90720788381	Nominal RA [deg]
dec_nom	35.449880218934	Nominal Dec [deg]
roll_nom	216.19781593609	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23051.559157014	Sum of GTIs [s]
livetime	22750.373566317	Livetime [s]
ontime0	23054.700177431	Sum of GTIs [s]
ontime1	23054.700177431	Sum of GTIs [s]
ontime2	23054.700177431	Sum of GTIs [s]
ontime3	23051.559157014	Sum of GTIs [s]
ontime7	23054.700177431	Sum of GTIs [s]
l2events	153582	Number of level 2 events



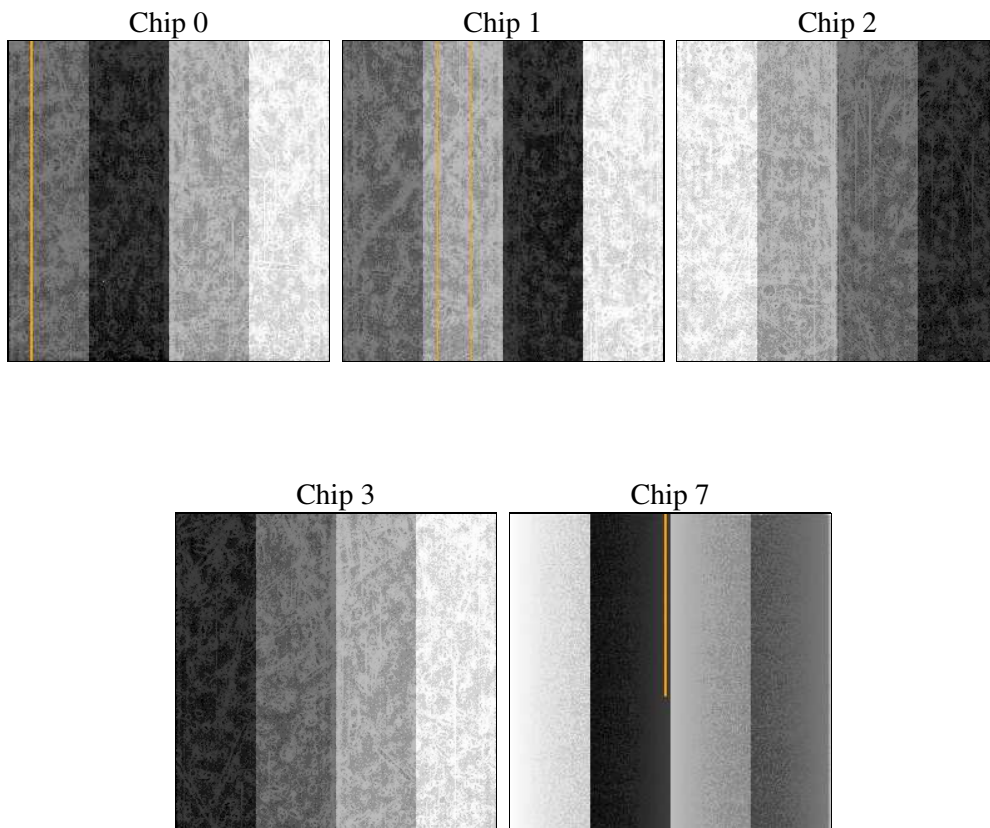
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	23051.559157014	Sum of GTIs [s]
caldbver	4.9.3	 	ontime0	23054.700177431	Sum of GTIs [s]
date	2020-10-26T16:17:31	Date and time of file creation	ontime1	23054.700177431	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	23054.700177431	Sum of GTIs [s]
			ontime3	23051.559157014	Sum of GTIs [s]
			ontime7	23054.700177431	Sum of GTIs [s]
			l1events	887663	Number of level 1 events

2.1.4 Events

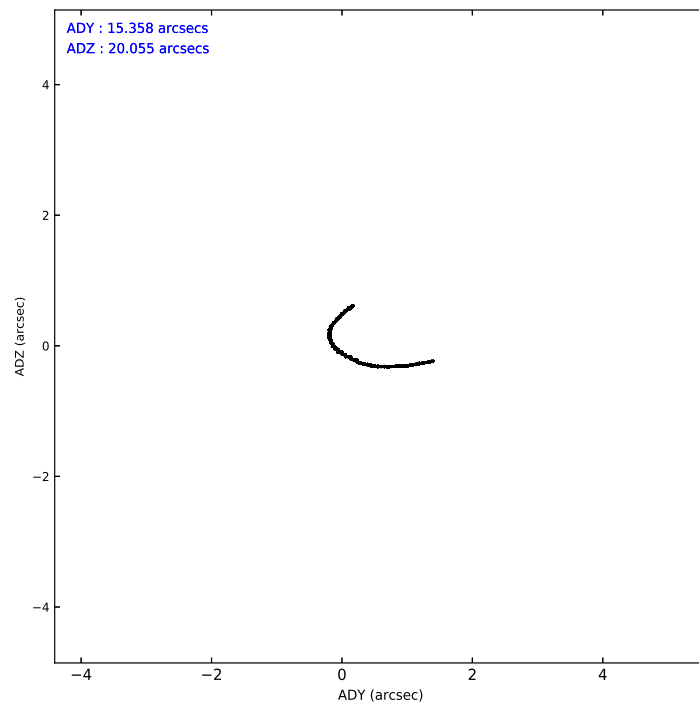
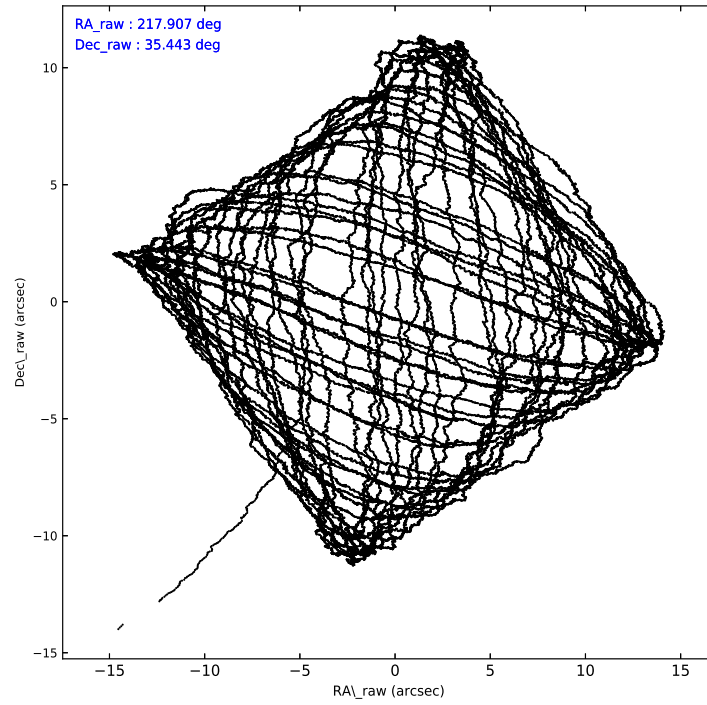
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	158171	160297	177372	173528	218295
rejected events	140241	139220	158113	155737	123951
rejected %	88%	86%	89%	89%	56%

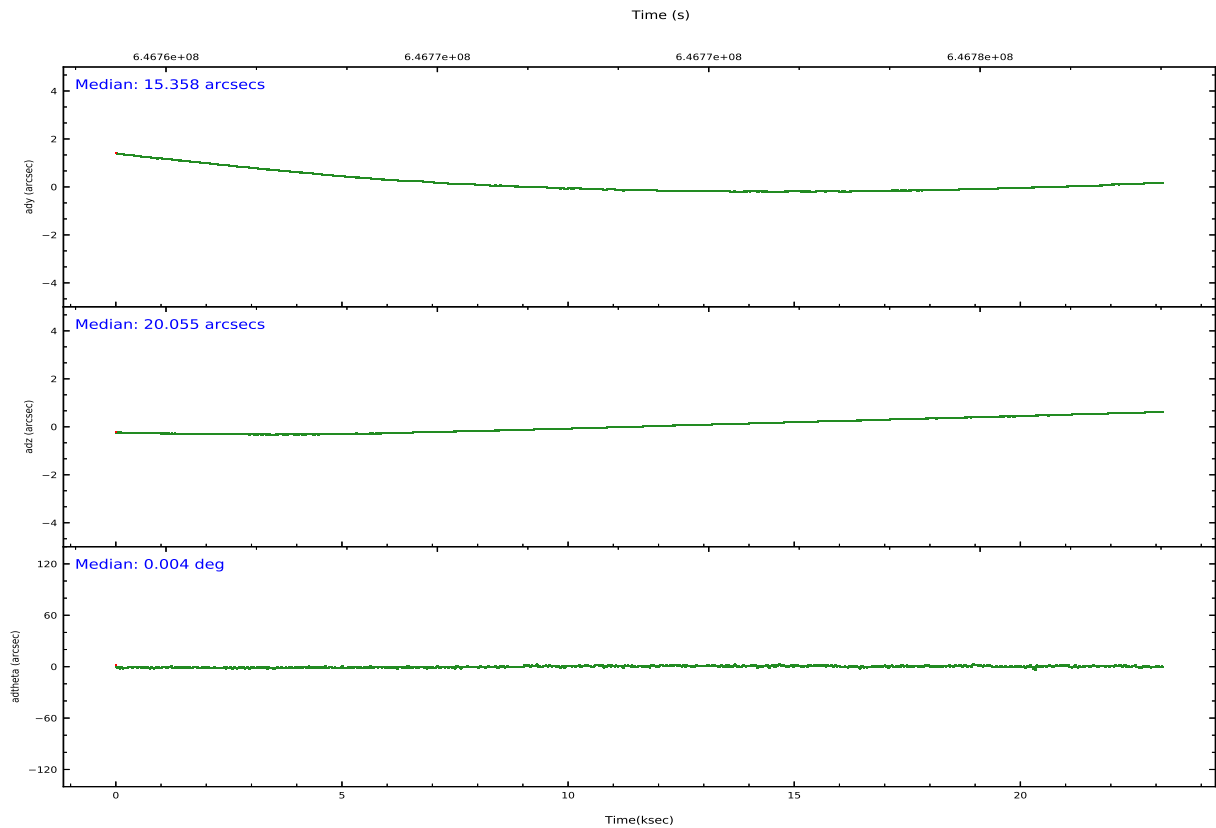
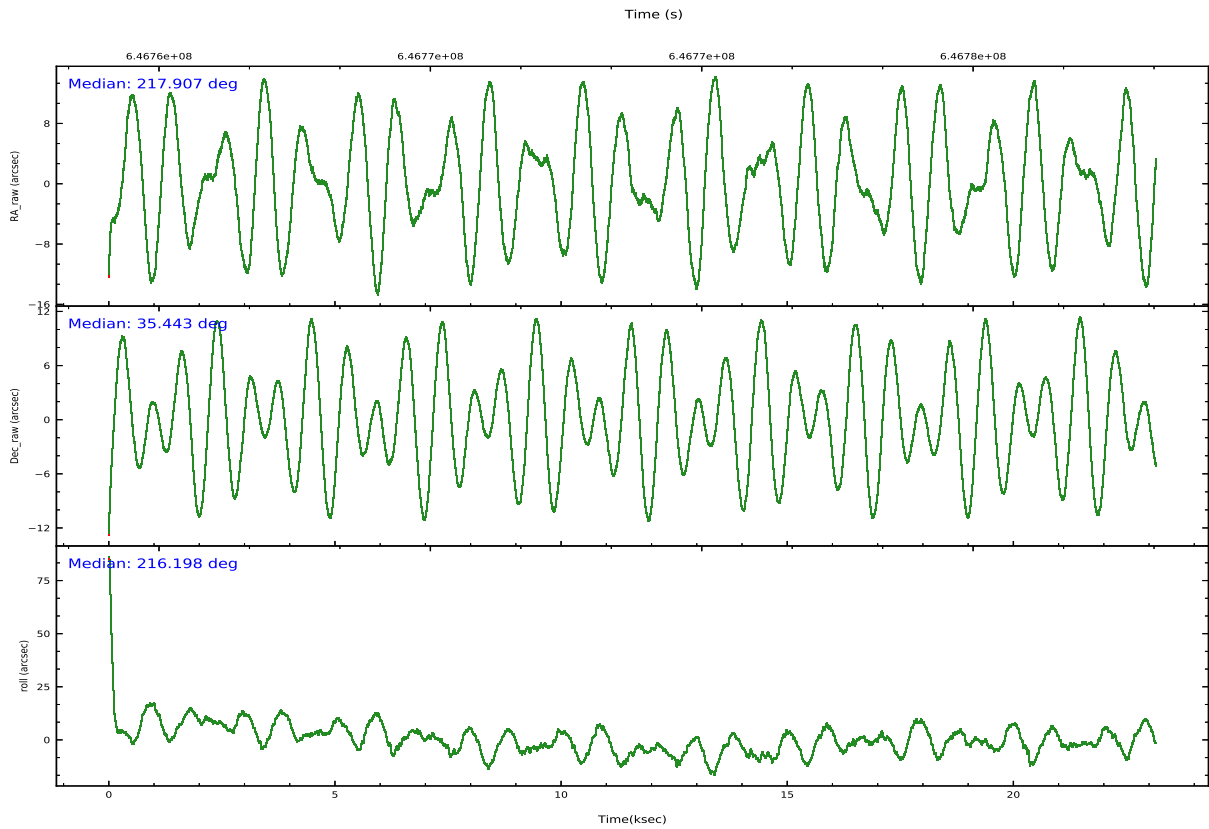
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	5949	6741	7629	6111	7810
	3%	4%	4%	3%	3%
grade 1 events	97	85	106	97	334
	0%	0%	0%	0%	0%
grade 2 events	4510	5788	4364	3901	19581
	2%	3%	2%	2%	8%
grade 3 events	1820	1802	1833	1876	7390
	1%	1%	1%	1%	3%
grade 4 events	1673	1799	1813	1909	7275
	1%	1%	1%	1%	3%
grade 5 events	6943	7028	6660	7956	21570
	4%	4%	3%	4%	9%
grade 6 events	3982	4949	3621	3995	52304
	2%	3%	2%	2%	23%
grade 7 events	133197	132105	151346	147683	102031
	84%	82%	85%	85%	46%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01237	ACIS-01237	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	217.920461	217.90720788381	CCD I2 on	Y	Y
[deg] Pointing Dec	35.467842	35.449880218934	CCD I3 on	Y	Y
[deg] Pointing Roll	215.995154	216.19781593609	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	N	N
[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)	646761046.184000	646759663.96048	CCD S5 on	N	N
Observation start date	2018-06-30T15:49:37	2018-06-30T15:27:43	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	646784046.184000	646784480.23695	On-chip summing requested	N	N
Observation end date	2018-06-30T22:12:57	2018-06-30T22:21:20	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





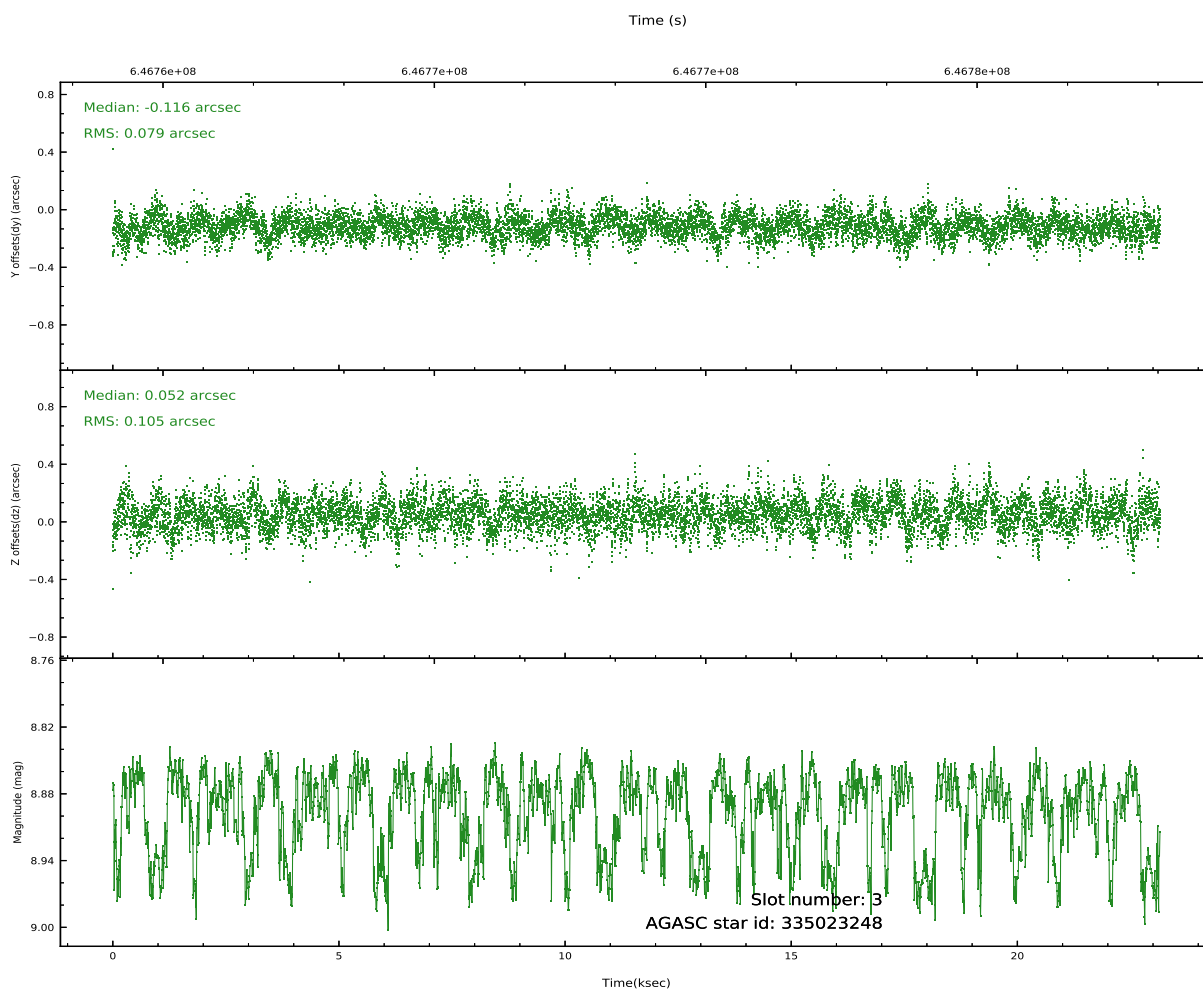
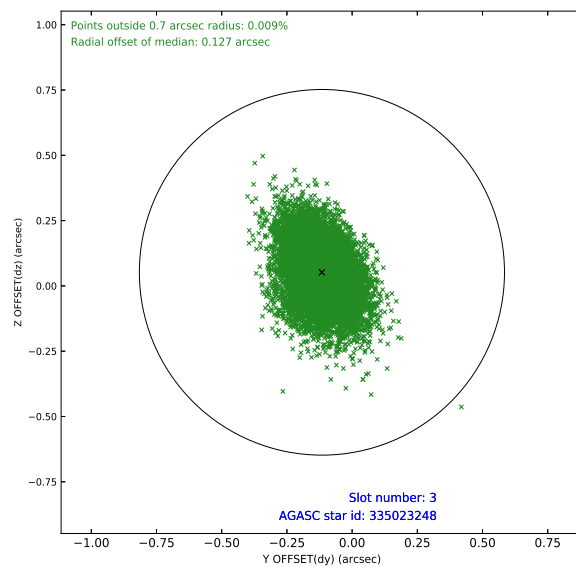
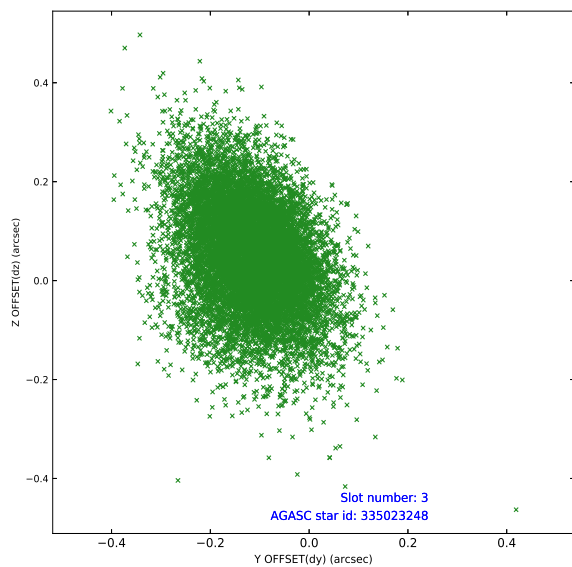
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-4	7.18	5649	1.000	0.160	0.044	0.017	0.041	0.000000	0.000000	2144.14	1055
1	FID		ACIS-I-5	7.23	5649	1.000	-0.283	0.027	0.019	0.044	0.000000	0.000000	-1824.08	1054
2	FID		ACIS-I-6	7.24	5649	1.000	0.026	-0.004	0.012	0.020	0.000000	0.000000	389.51	1698
3	GUIDE	used	335023248	8.89	11288	1.000	-0.116	0.052	0.135	0.234	217.634832	34.944512	1788.47	1028
4	GUIDE	used	335414448	7.37	11292	1.000	0.114	-0.014	0.126	0.229	216.992261	35.577204	1961.00	-1923
5	GUIDE	used	335417968	9.38	11277	1.000	0.011	-0.084	0.173	0.280	217.358149	35.055285	2211.74	223
6	GUIDE	used	335421696	8.93	11287	1.000	0.002	0.144	0.165	0.273	218.045699	35.772449	-940.17	-671
7	GUIDE	used	335422272	9.40	11281	1.000	-0.016	-0.093	0.188	0.320	217.586135	35.522660	675.33	-737

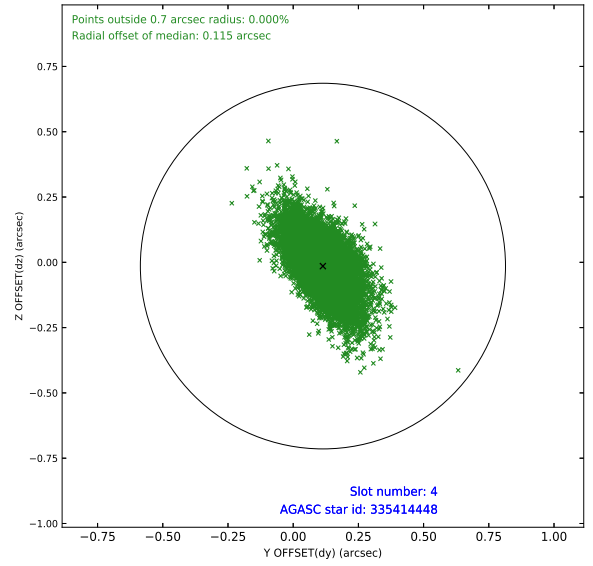
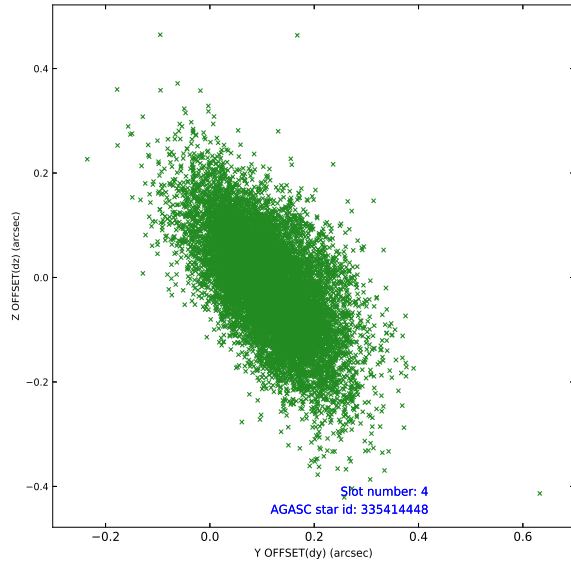
∞

2.4 Star Slots

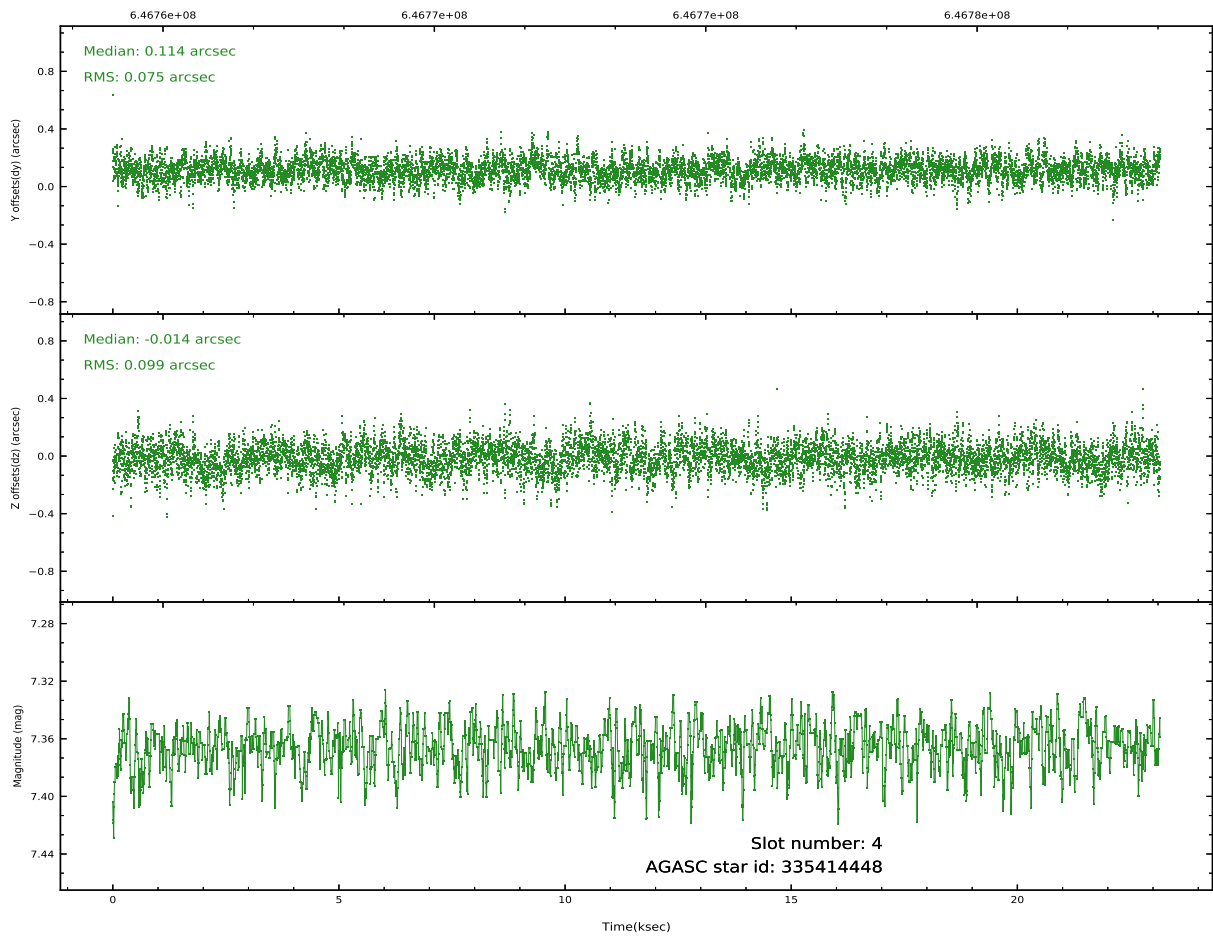
2.4.1 Slot 3



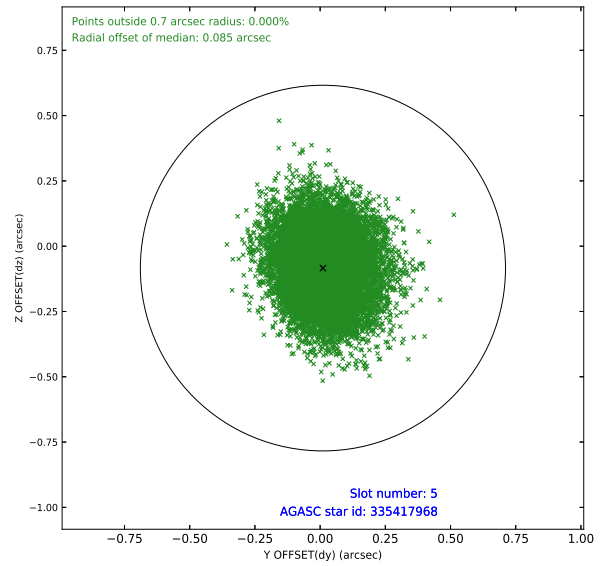
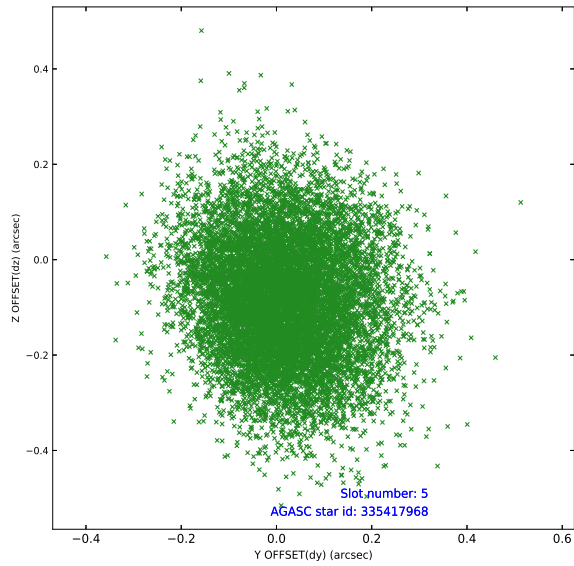
2.4.2 Slot 4



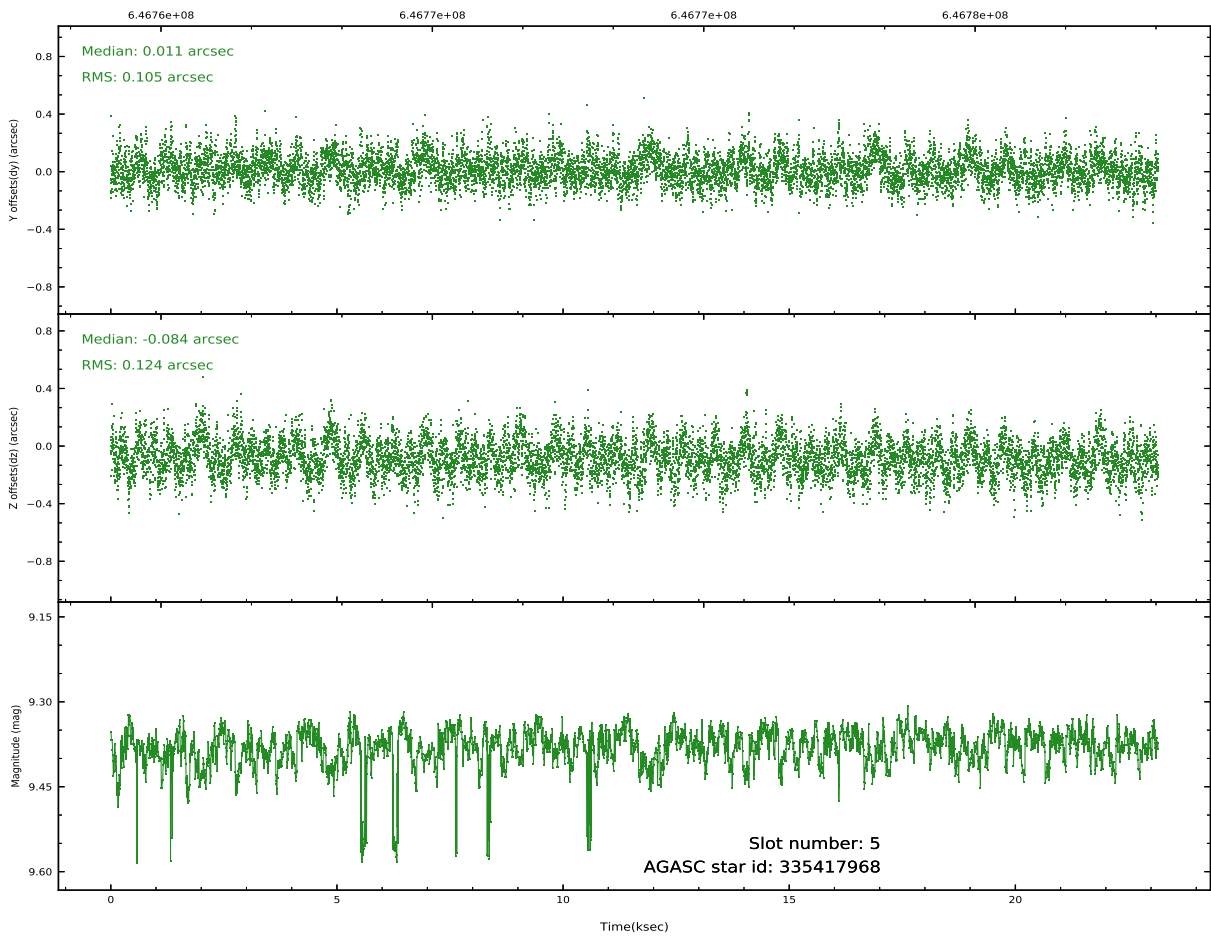
Time (s)



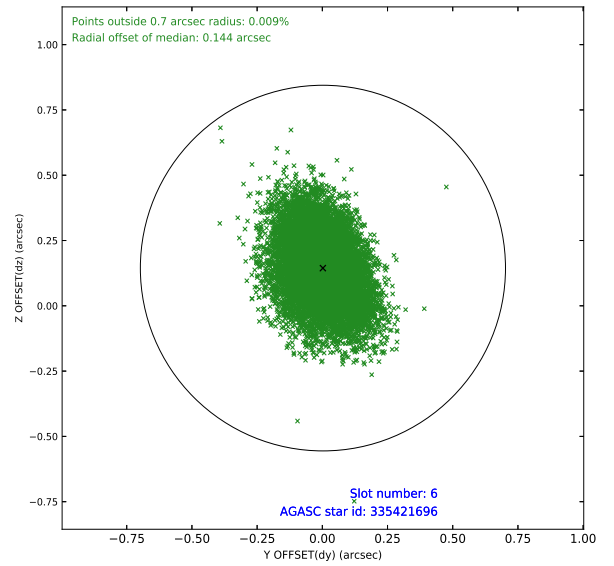
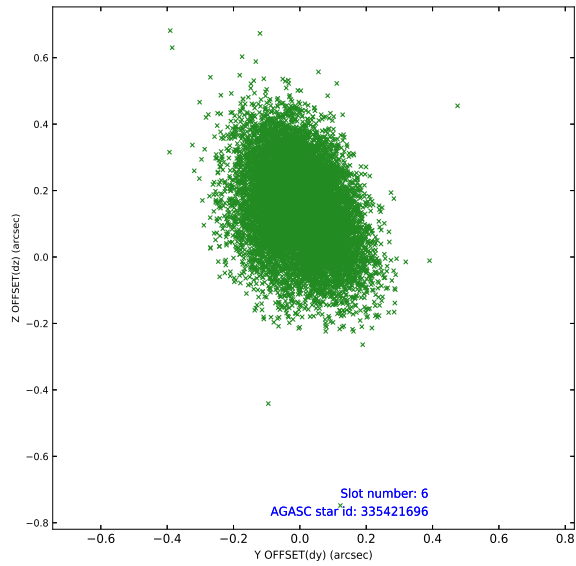
2.4.3 Slot 5



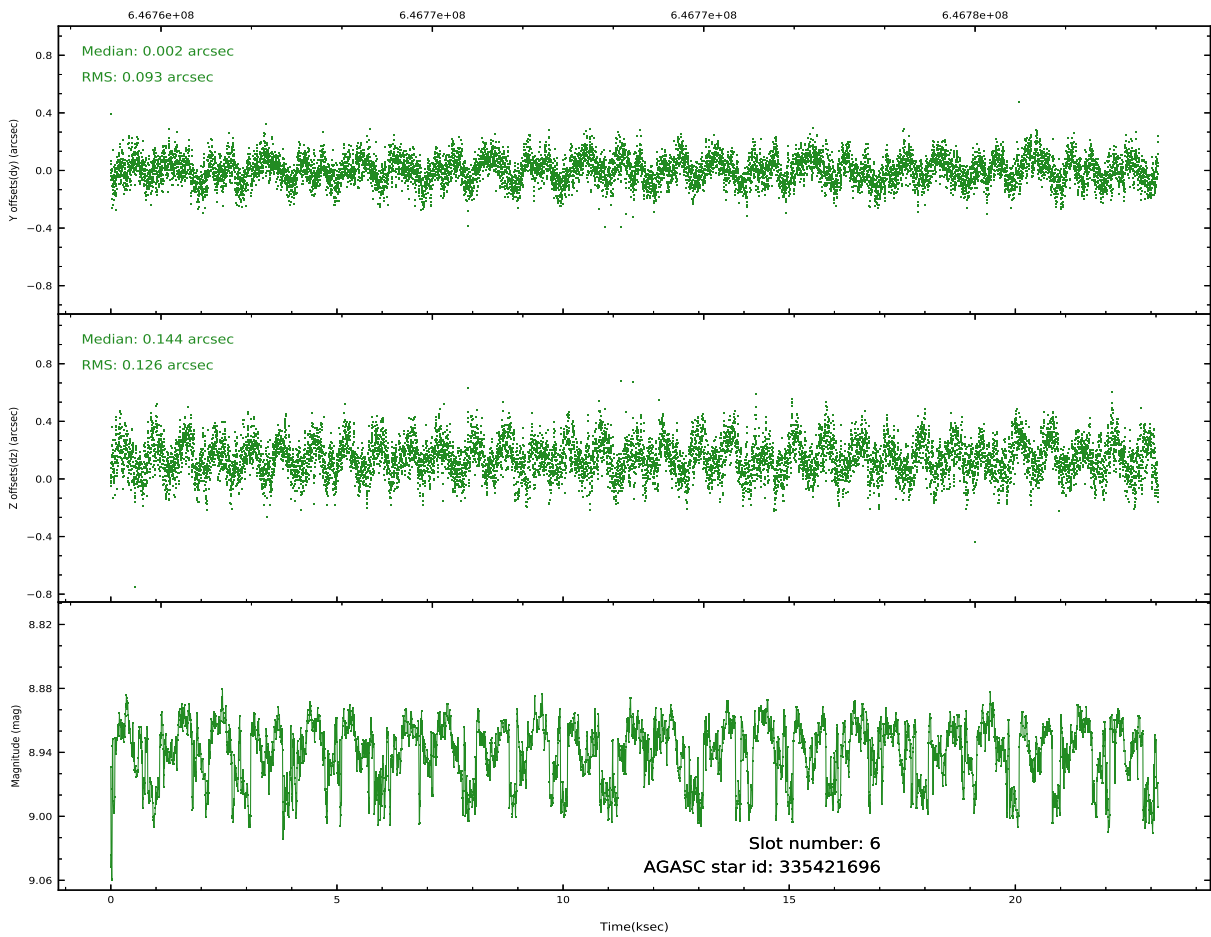
Time (s)



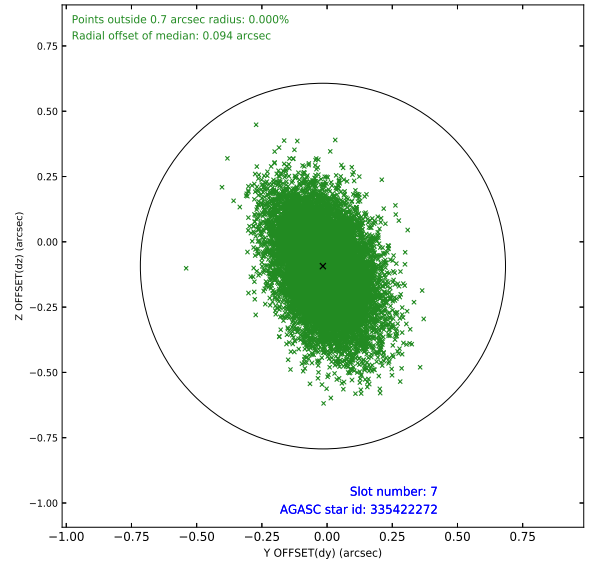
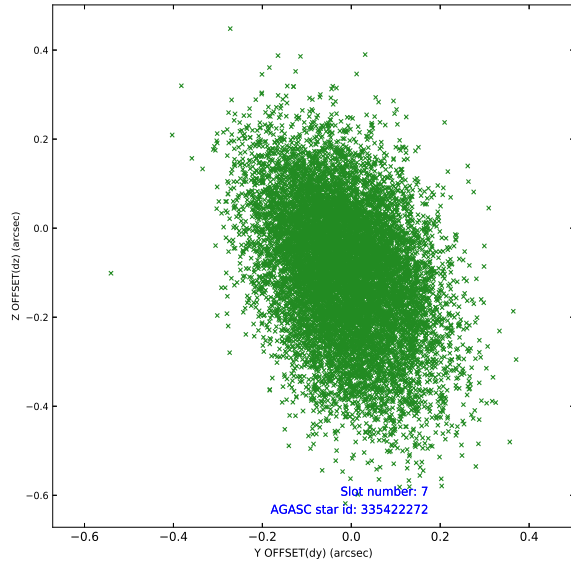
2.4.4 Slot 6



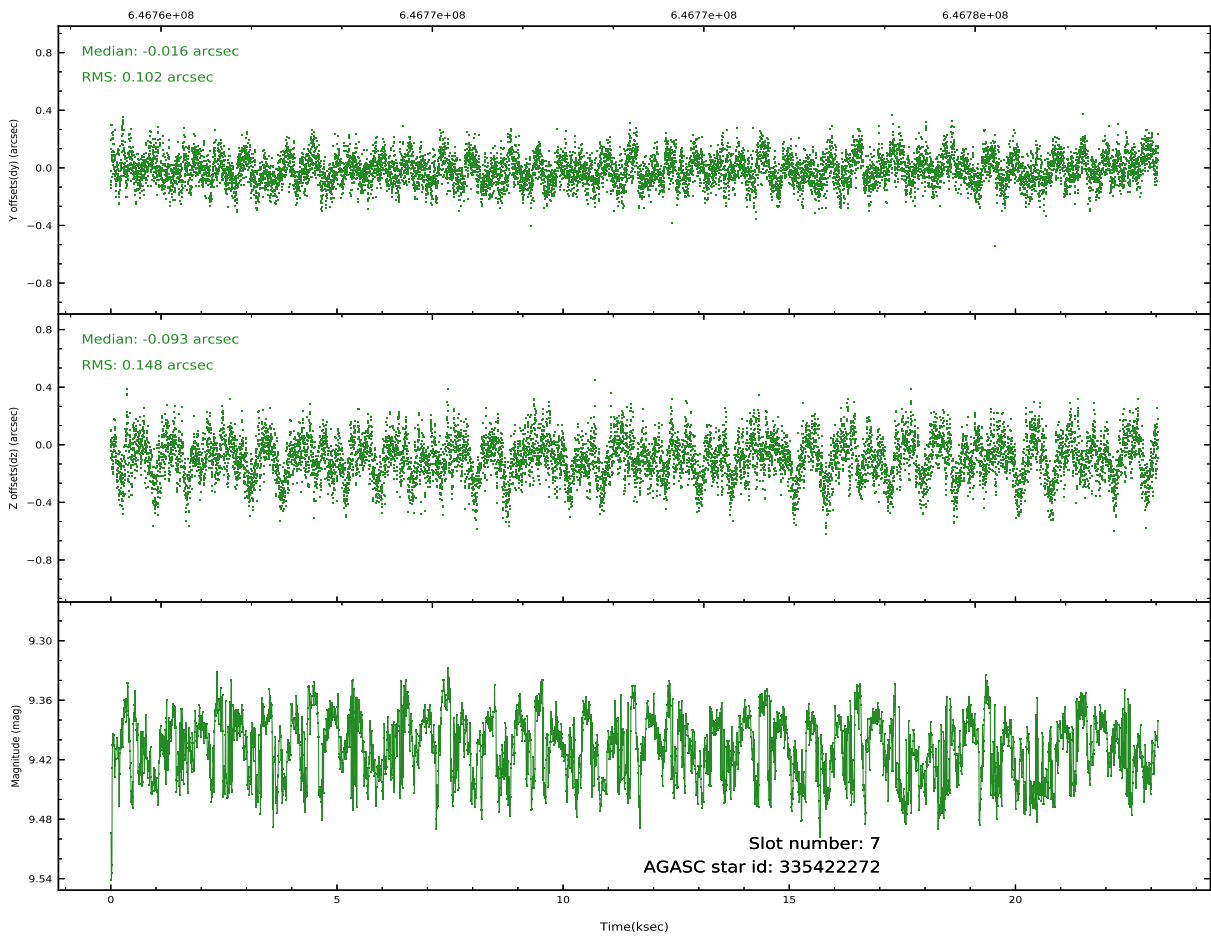
Time (s)



2.4.5 Slot 7

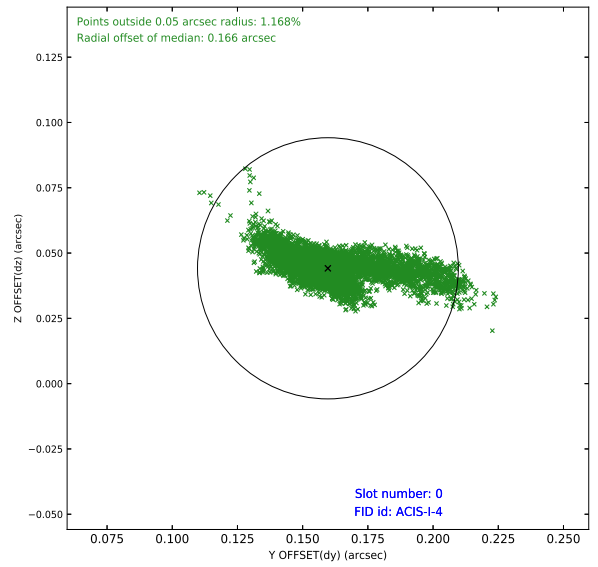
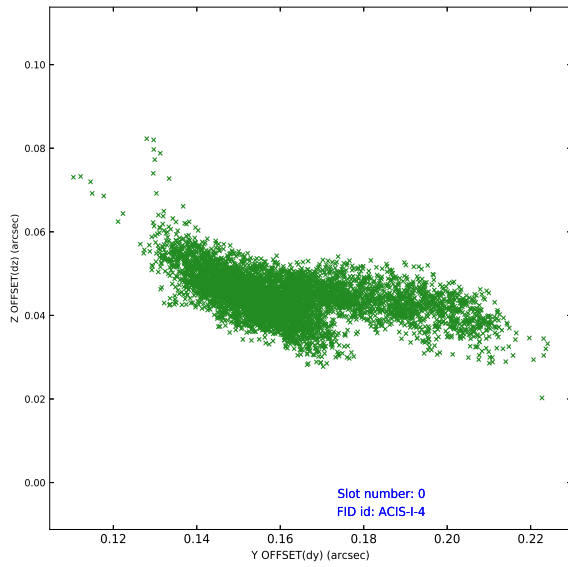


Time (s)

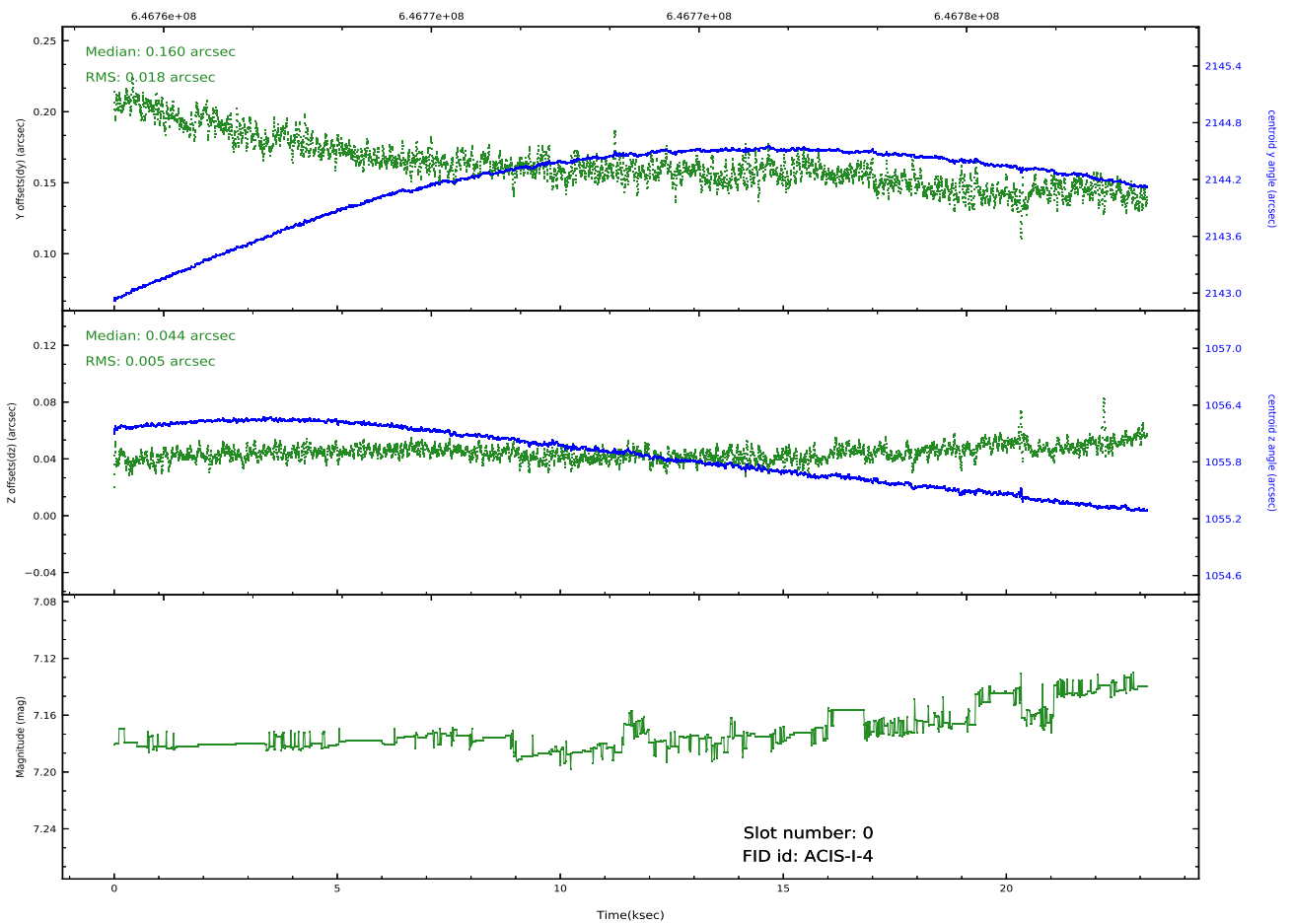


2.5 FID Slots

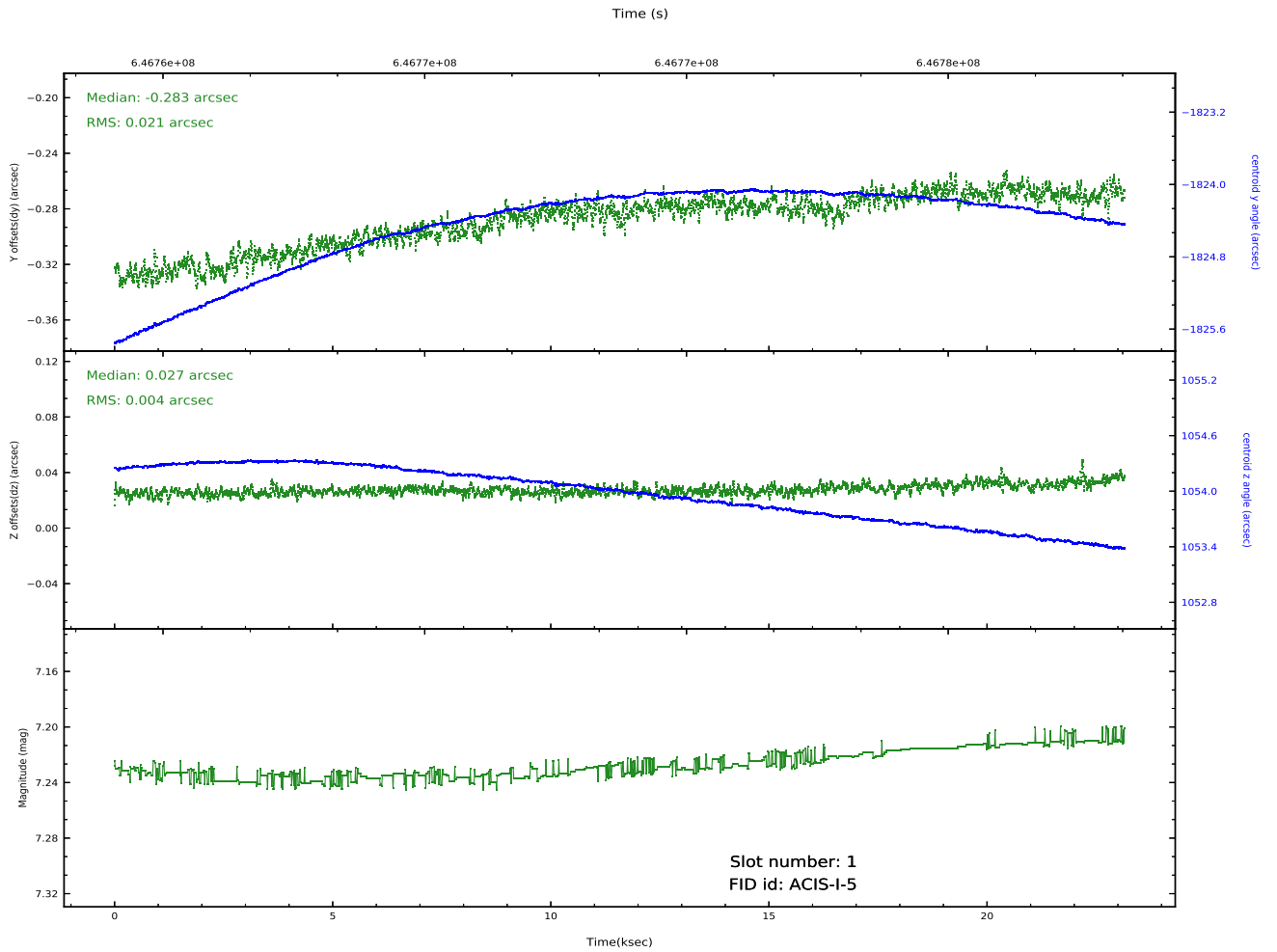
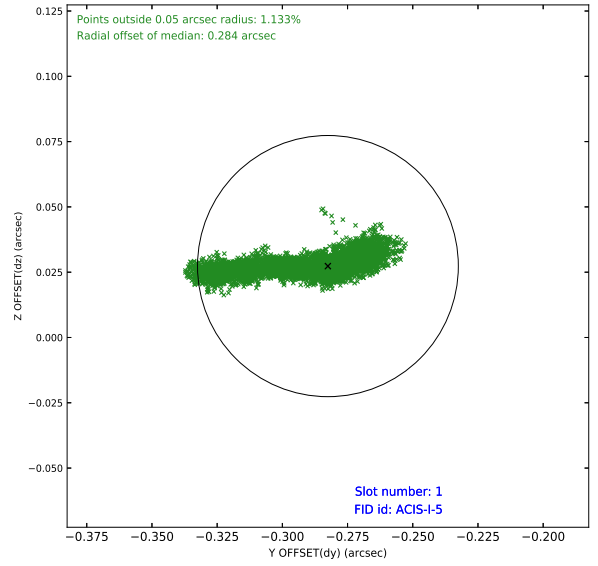
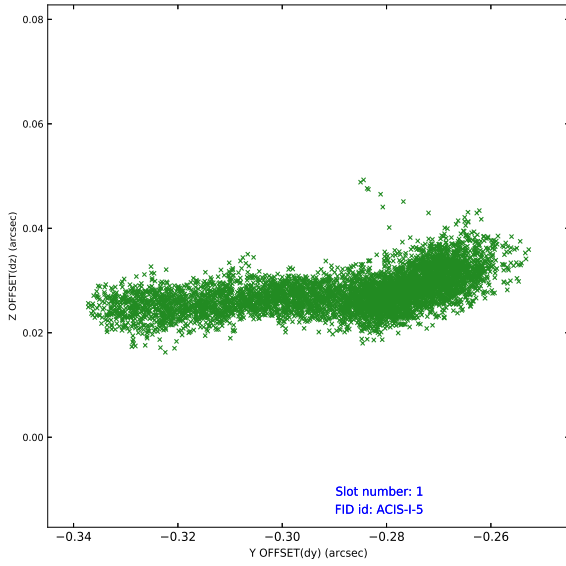
2.5.1 Slot 0



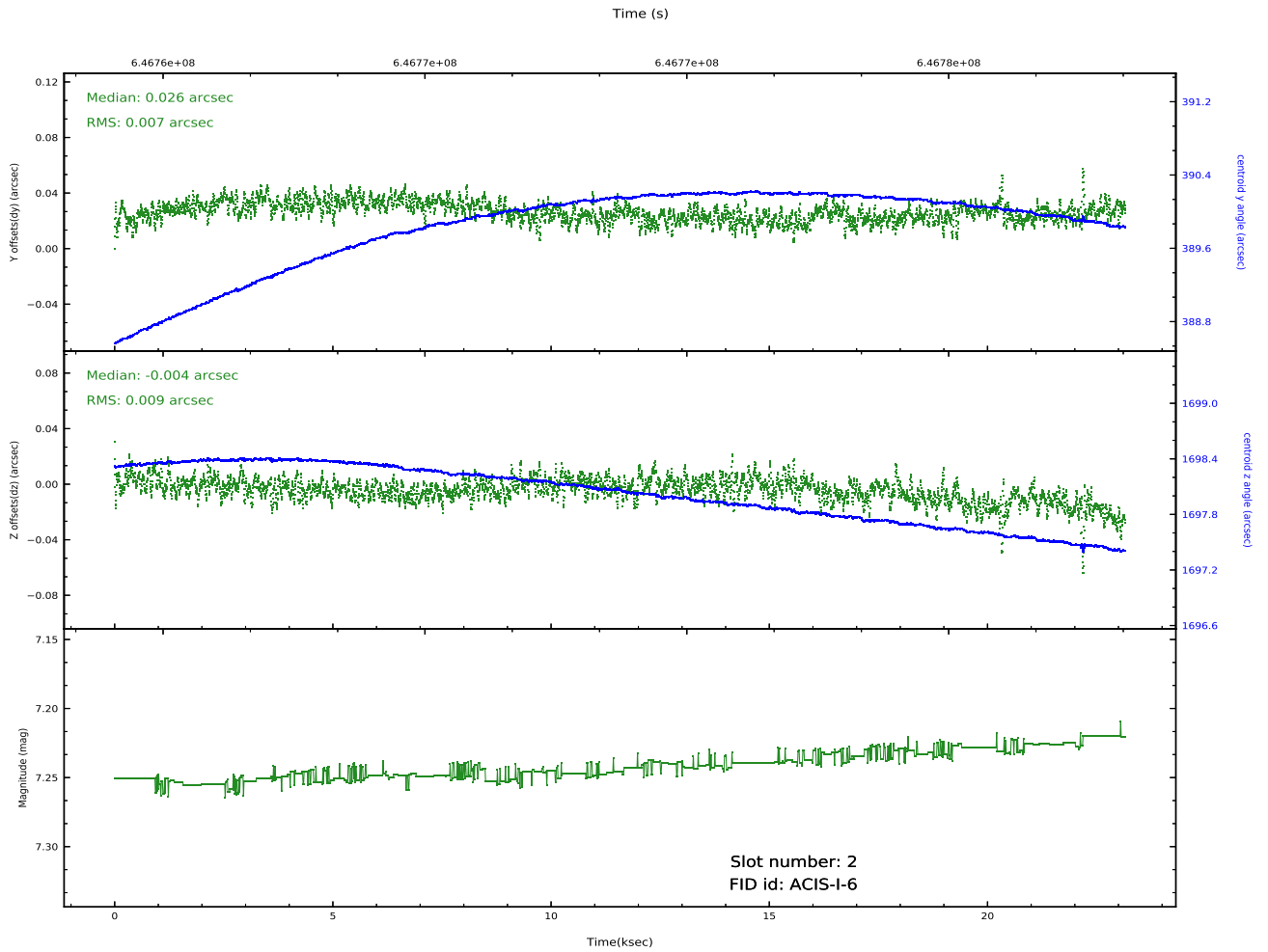
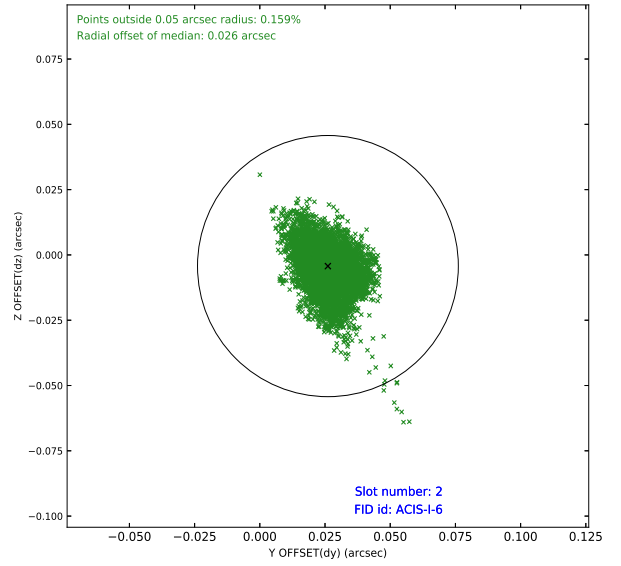
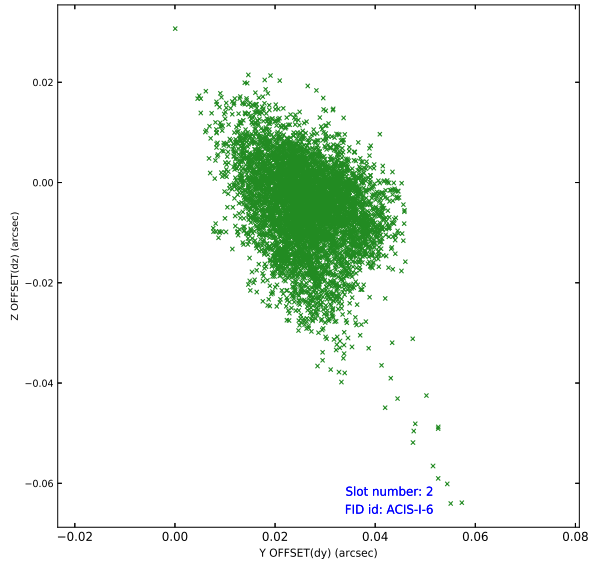
Time (s)



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.051559157133

A.2 Comments