

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19656 - L2 Version 3
Chandra X-Ray Center

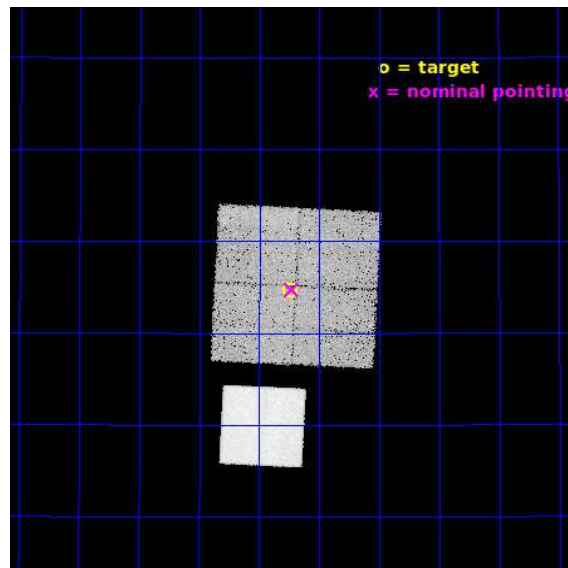
L2 Processing Date : Oct 25 2020

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1 Front

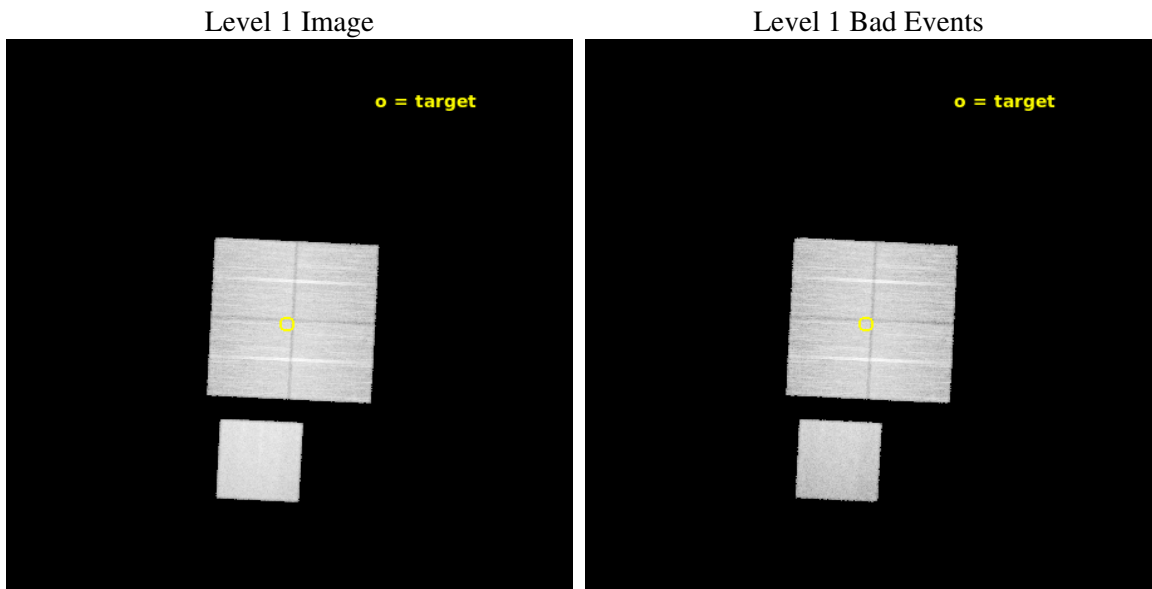
seq_num	901363	Sequence number
obs_id	19656	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.93695	Observer's specified target RA [deg]
dec_targ	33.411347	Observer's specified target Dec [deg]
ra_nom	216.93188735174	Nominal RA [deg]
dec_nom	33.412302245628	Nominal Dec [deg]
roll_nom	182.83998374634	Nominal Roll [deg]
revision	3	Processing version of data
ontime	24049.718104601	Sum of GTIs [s]
livetime	23735.490832419	Livetime [s]
ontime0	24056.000185132	Sum of GTIs [s]
ontime1	24056.000185132	Sum of GTIs [s]
ontime2	24052.85915482	Sum of GTIs [s]
ontime3	24049.718104601	Sum of GTIs [s]
ontime7	24056.000185132	Sum of GTIs [s]
l2events	160507	Number of level 2 events



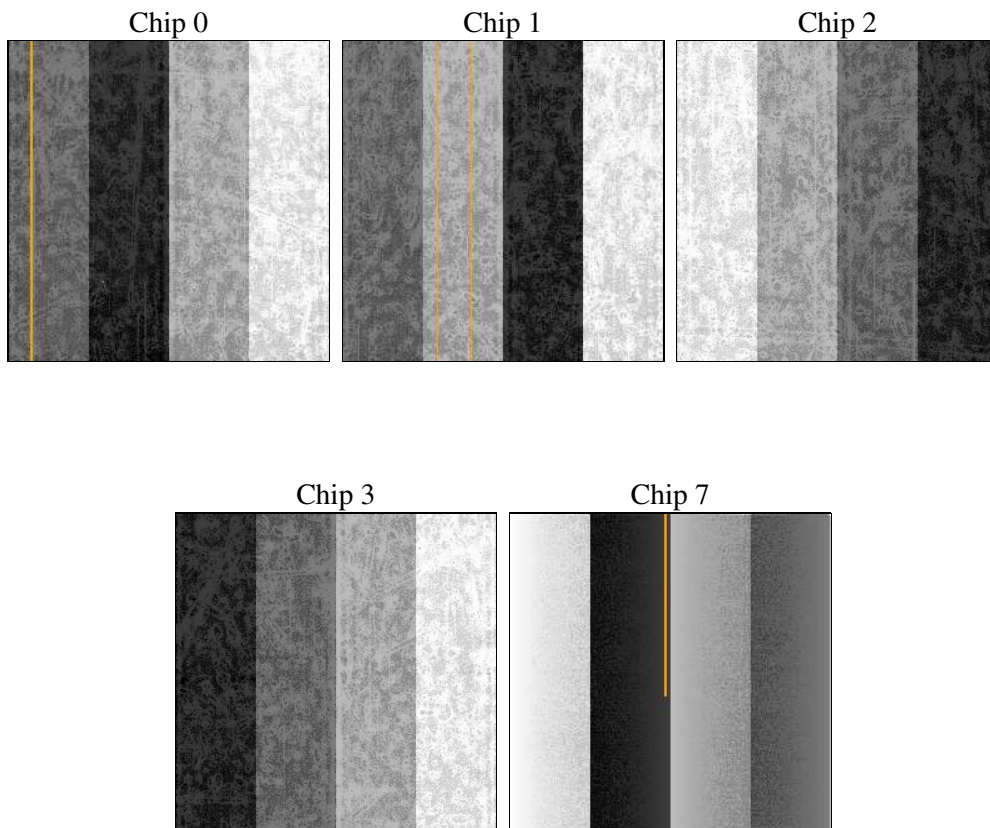
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	24049.718104601	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	24056.000185132	Sum of GTIs [s]
date	2020-10-25T20:24:13	Date and time of file creation	ontime1	24056.000185132	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	24052.85915482	Sum of GTIs [s]
			ontime3	24049.718104601	Sum of GTIs [s]
			ontime7	24056.000185132	Sum of GTIs [s]
			l1events	920477	Number of level 1 events

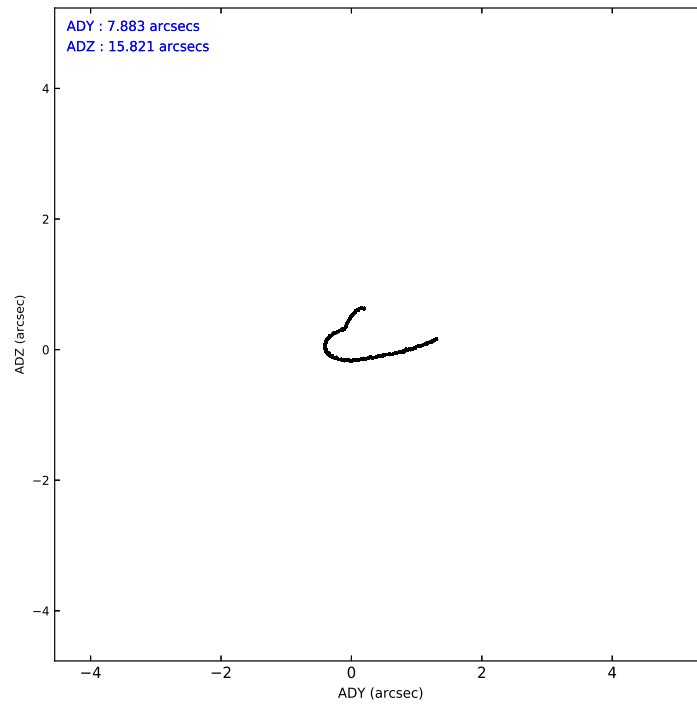
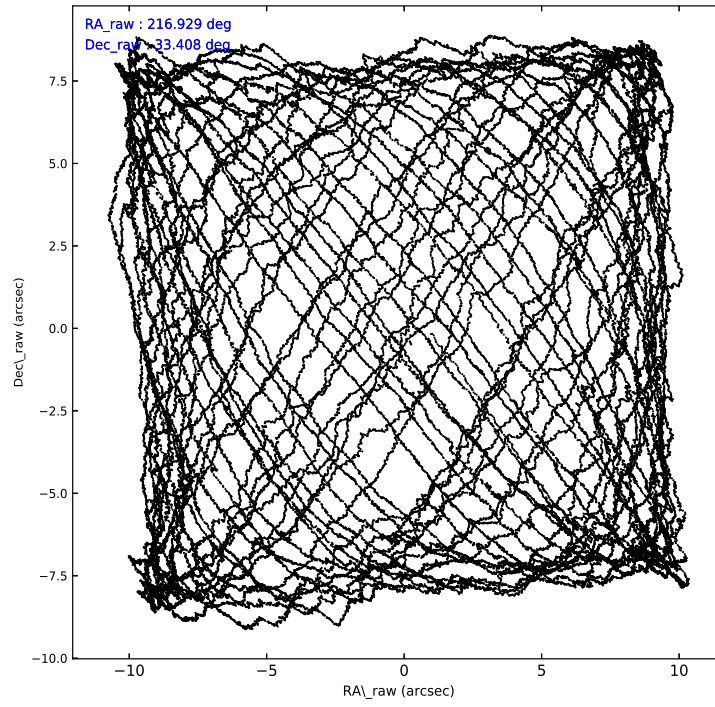
2.1.4 Events

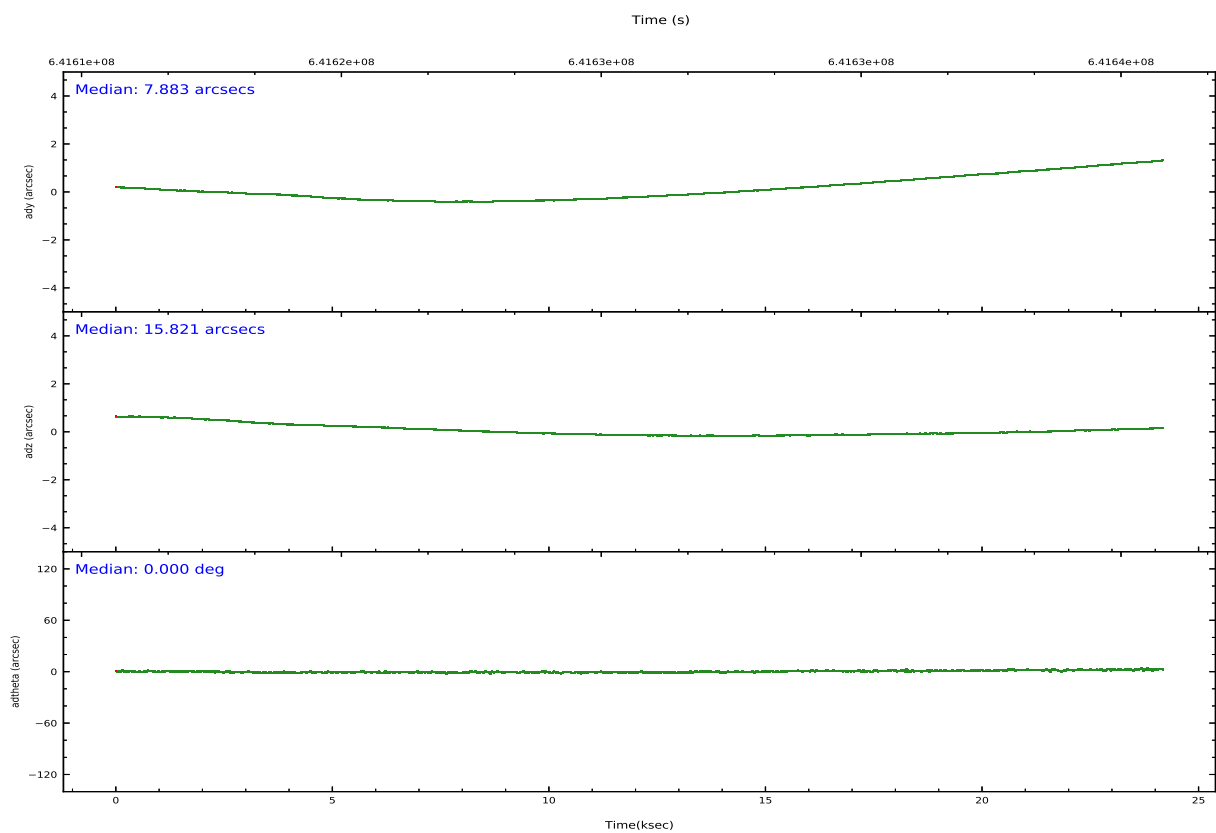
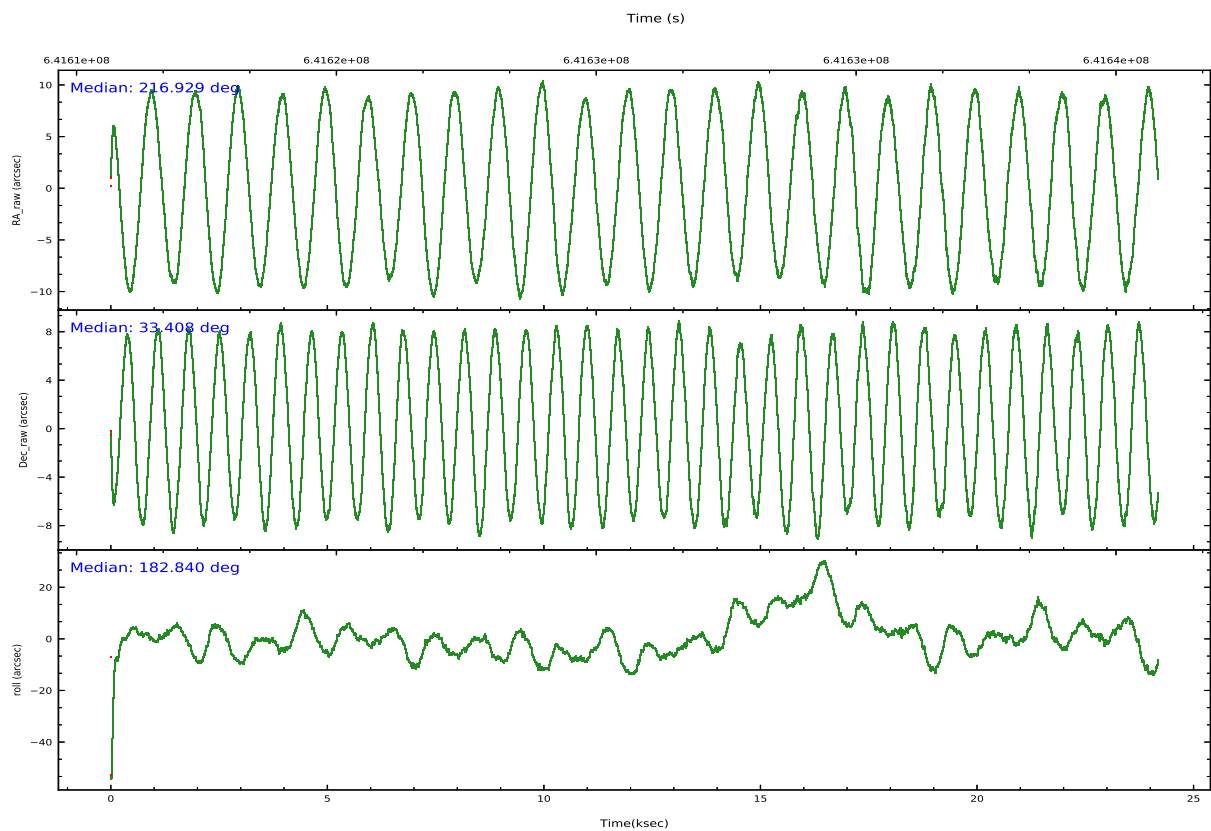
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	162332	172348	180958	176275	228564	grade 0 events	6608	6906	6681	6331	8339
rejected events	142787	150872	162059	158222	129655		4%	4%	3%	3%	3%
rejected %	87%	87%	89%	89%	56%	grade 1 events	100	93	91	98	336
							0%	0%	0%	0%	0%
						grade 2 events	4775	5654	4661	3992	20925
							2%	3%	2%	2%	9%
						grade 3 events	2015	2037	1893	1931	8011
							1%	1%	1%	1%	3%
						grade 4 events	1941	2017	1956	1989	7942
							1%	1%	1%	1%	3%
						grade 5 events	7484	7767	6874	8471	22810
							4%	4%	3%	4%	9%
						grade 6 events	4209	4865	3711	3810	53711
							2%	2%	2%	2%	23%
						grade 7 events	135200	143009	155091	149653	106490
							83%	82%	85%	84%	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	216.956986	216.93188735174	CCD I2 on	Y	Y
[deg] Pointing Dec	33.422651	33.412302245628	CCD I3 on	Y	Y
[deg] Pointing Roll	182.614185	182.83998374634	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)	641614973.184000	641613859.23119	CCD S5 on	N	N
Observation start date	2018-05-02T02:21:44	2018-05-02T02:04:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	641638973.184000	641639857.33272	On-chip summing requested	N	N
Observation end date	2018-05-02T09:01:44	2018-05-02T09:17:37	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



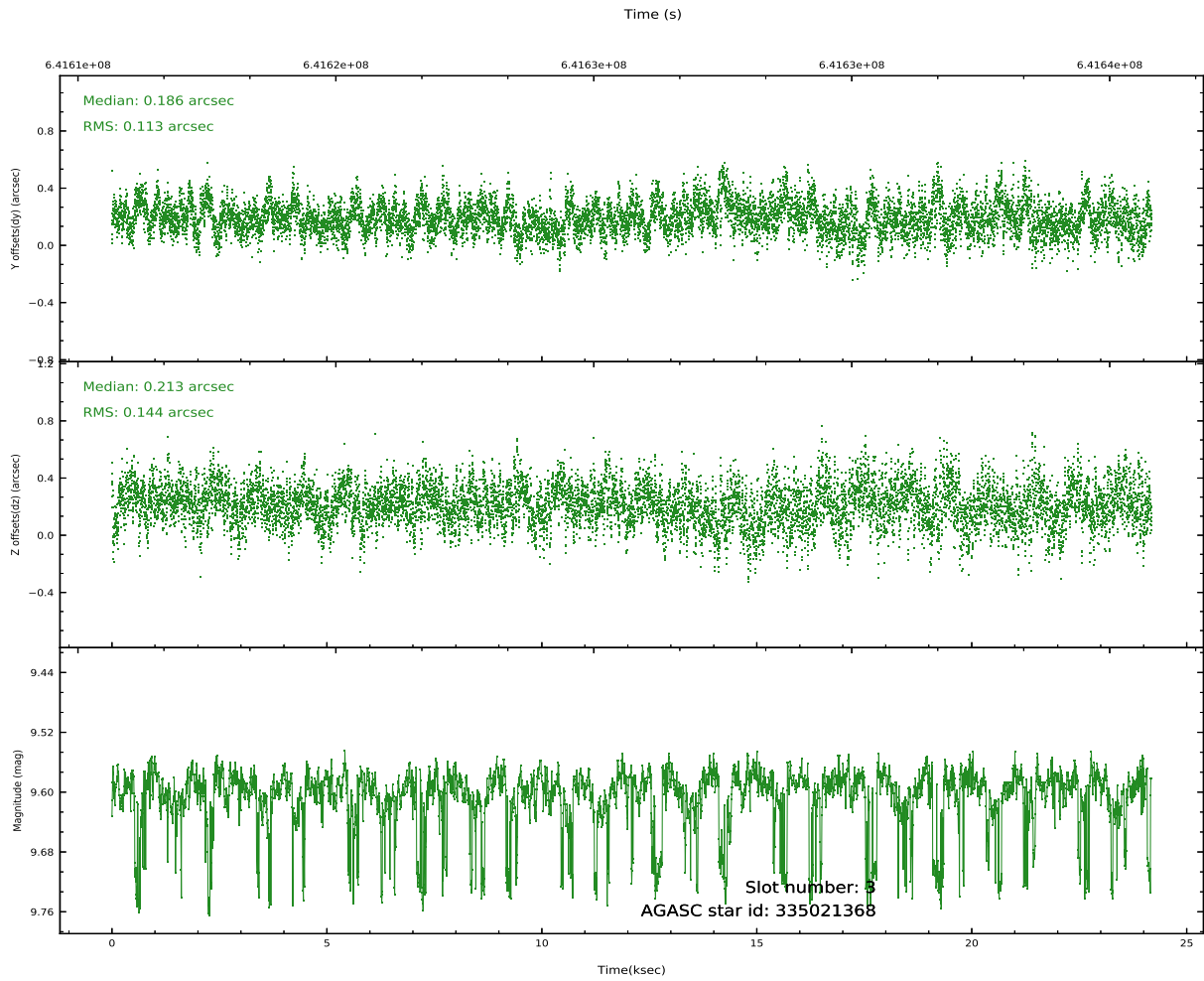
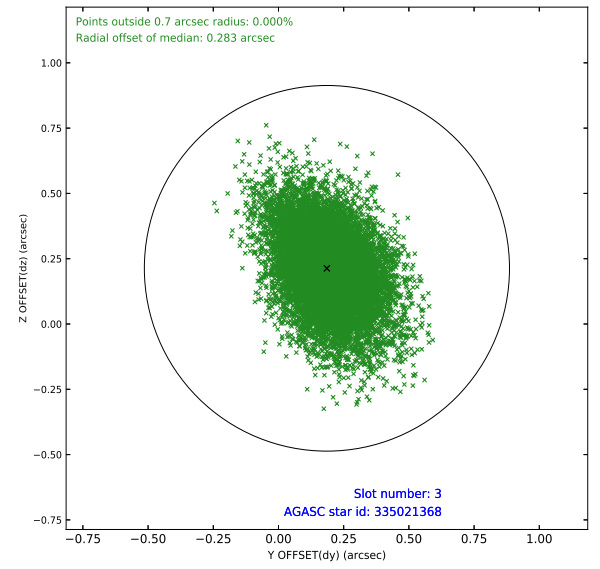
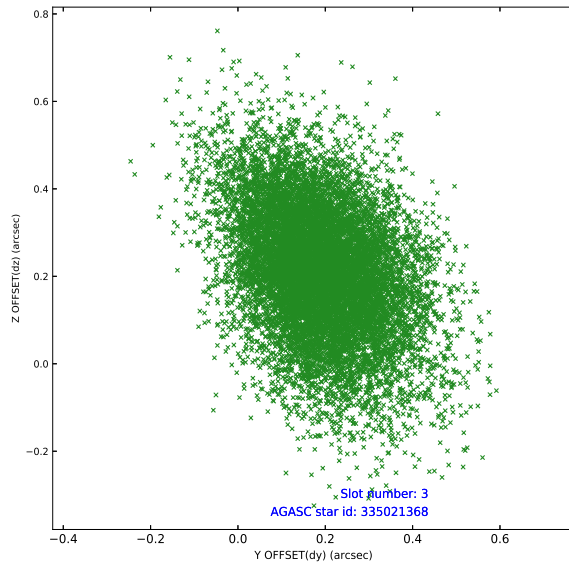


Slot Statistics

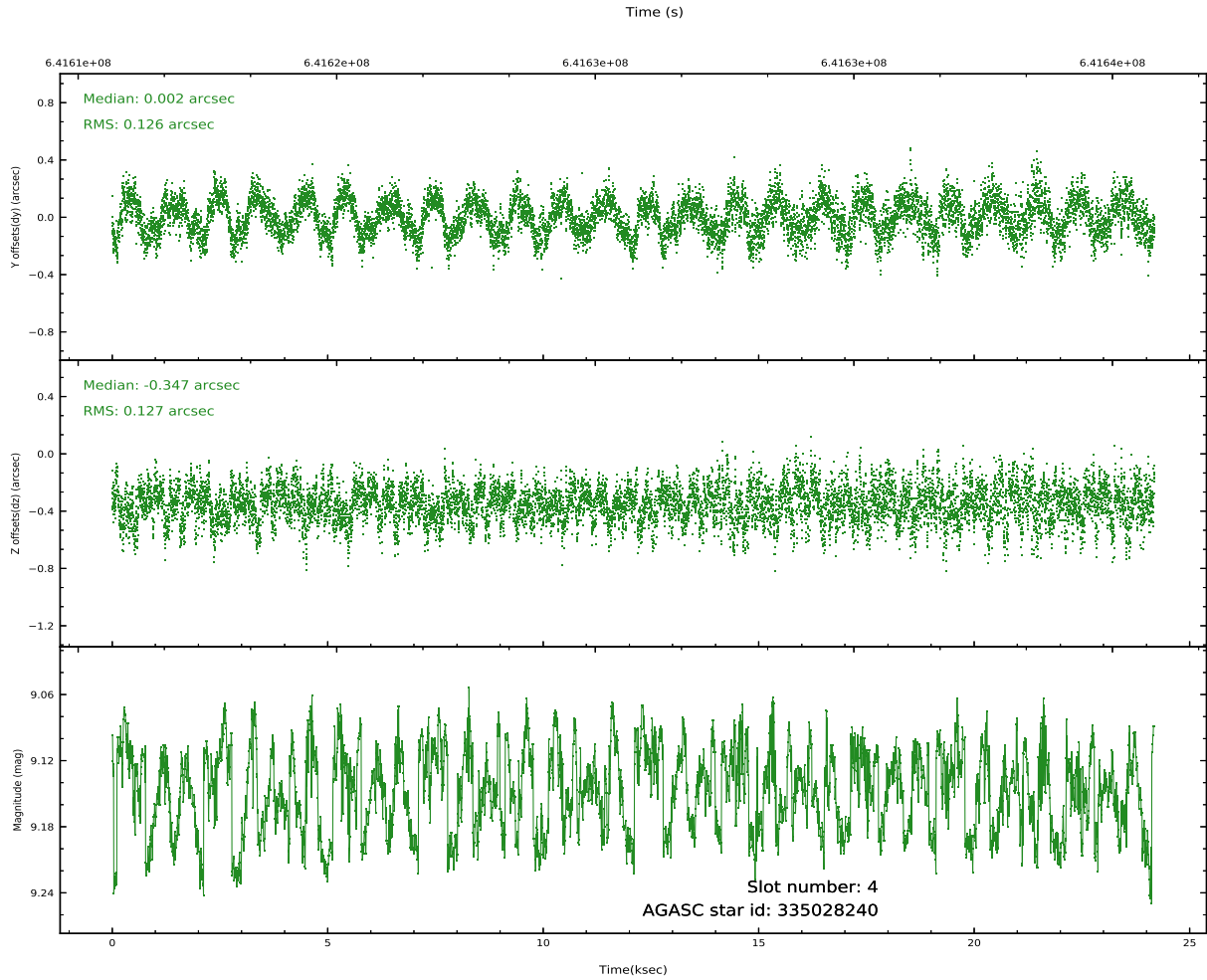
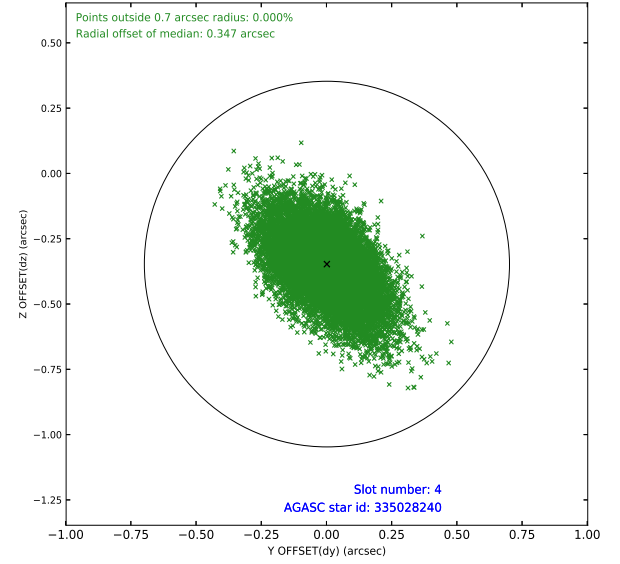
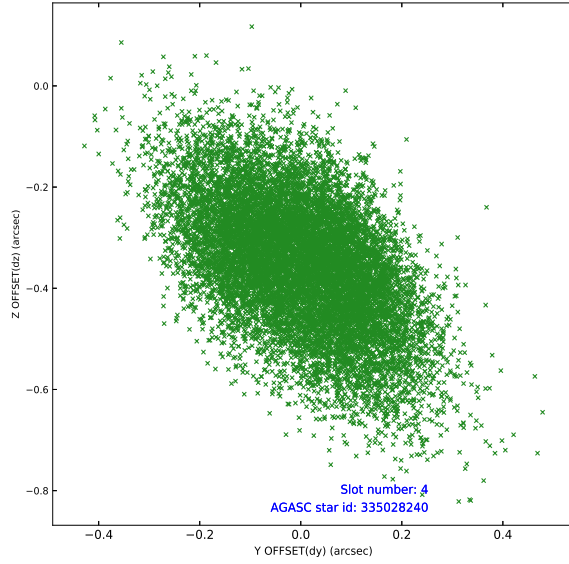
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.15	5898	1.000	0.116	-0.138	0.016	0.025	0.000000	0.000000	931.70	-839
1	FID		ACIS-I-4	7.09	5898	1.000	0.132	0.063	0.014	0.020	0.000000	0.000000	2151.91	1060
2	FID		ACIS-I-5	7.14	5898	1.000	-0.347	0.146	0.010	0.017	0.000000	0.000000	-1816.52	1058
3	GUIDE	used	335021368	9.60	11781	1.000	0.186	0.213	0.189	0.331	217.529643	33.934817	-1791.59	-1768
4	GUIDE	used	335028240	9.15	11778	1.000	0.002	-0.347	0.184	0.312	216.746851	33.385009	638.56	104
5	OMITTED			0.00	0	0.000	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0
6	GUIDE	used	335029808	9.04	11780	1.000	-0.144	0.125	0.151	0.263	216.789548	33.180488	544.41	847
7	GUIDE	used	335030152	9.64	11775	1.000	-0.061	0.013	0.234	0.376	216.202154	33.091054	2328.88	1080

2.4 Star Slots

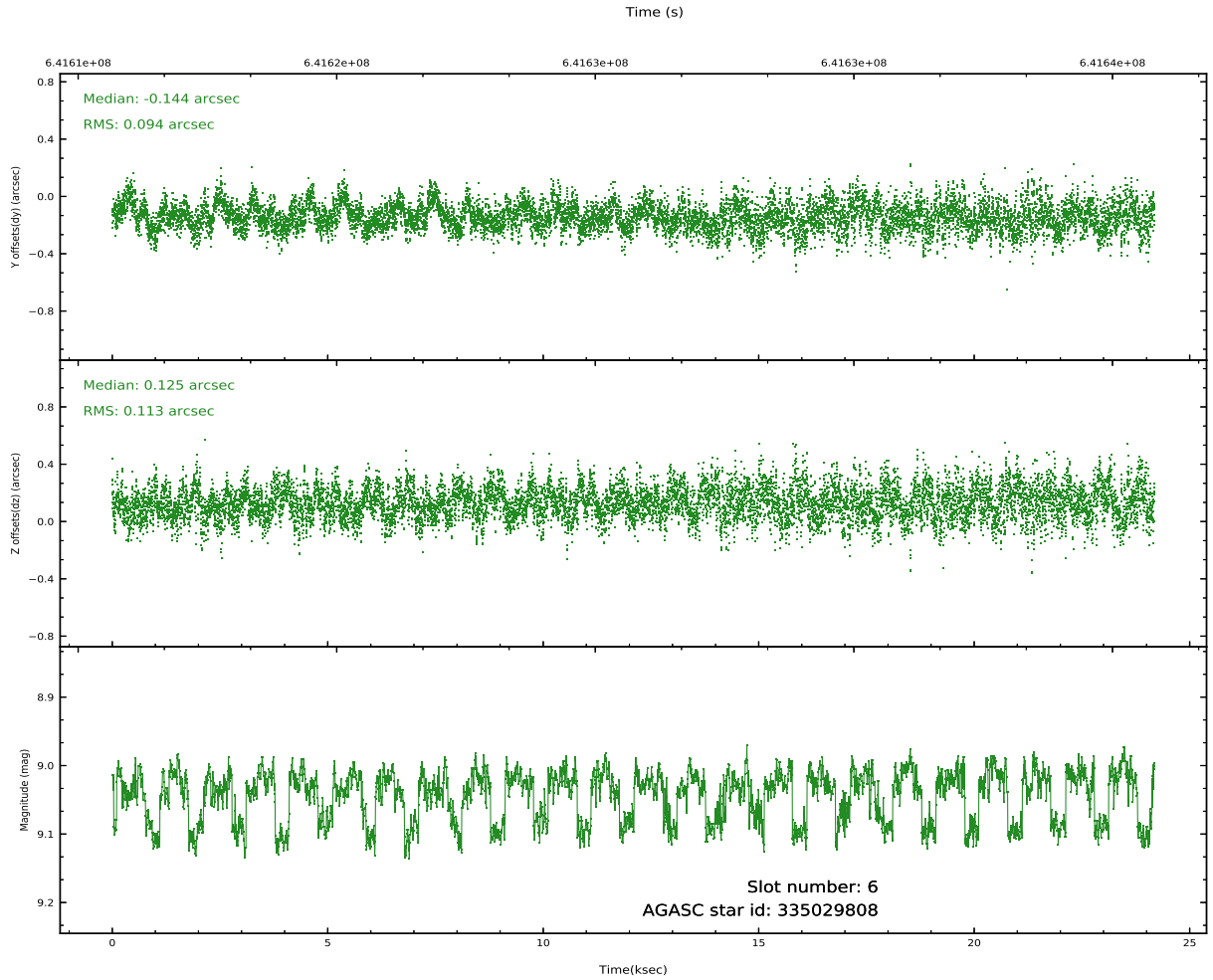
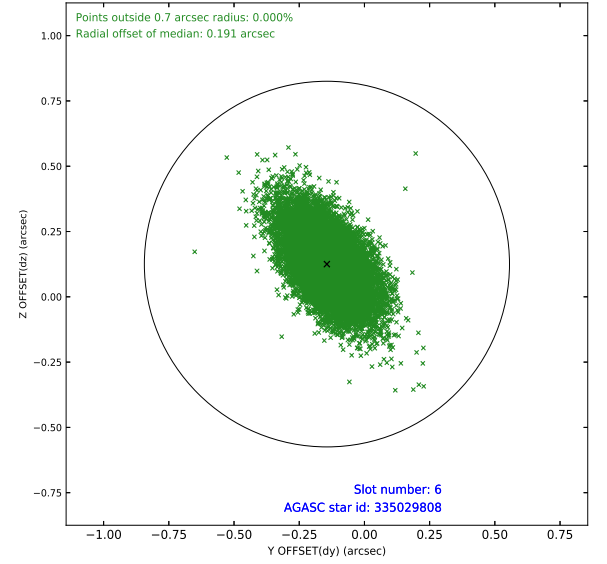
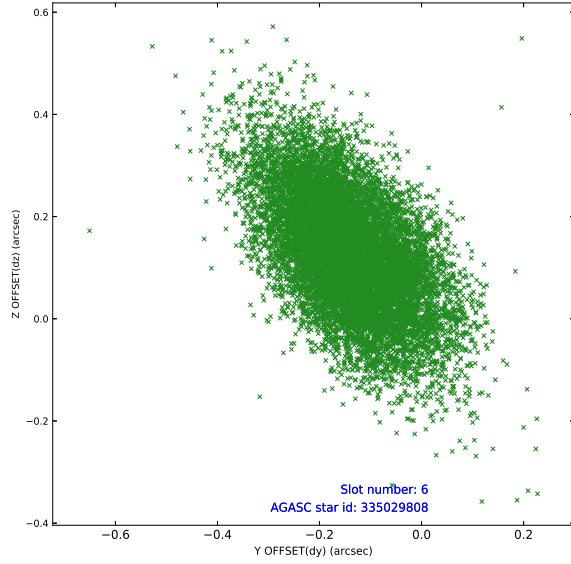
2.4.1 Slot 3



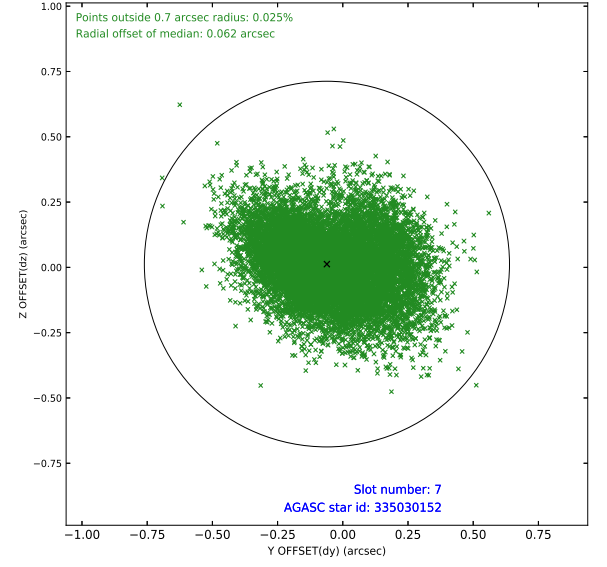
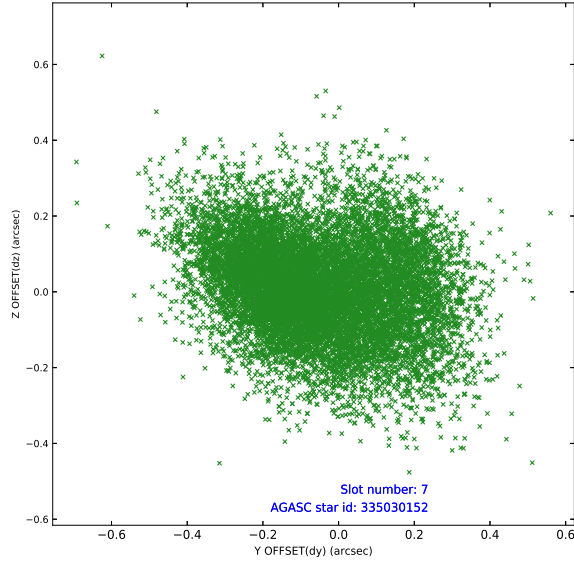
2.4.2 Slot 4



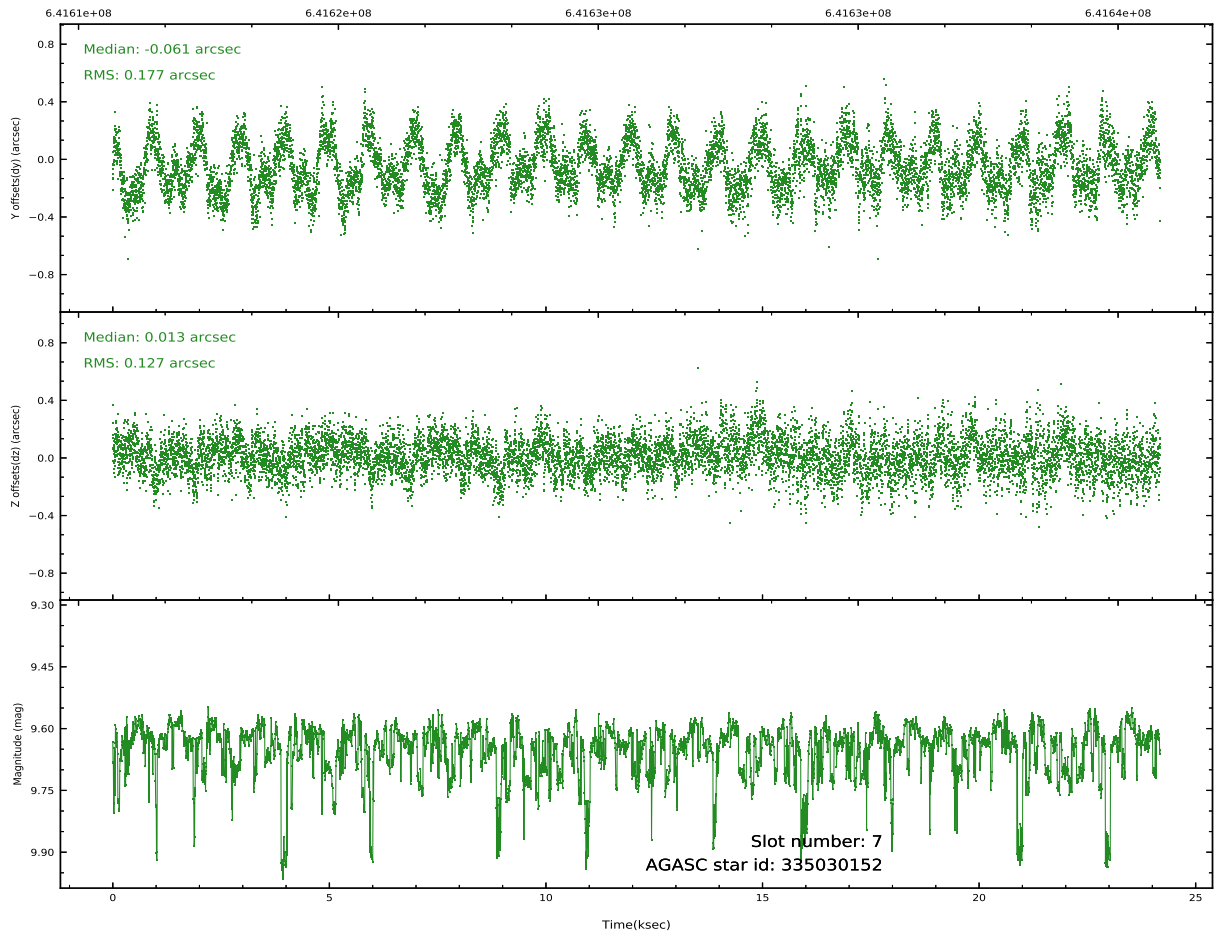
2.4.3 Slot 6



2.4.4 Slot 7

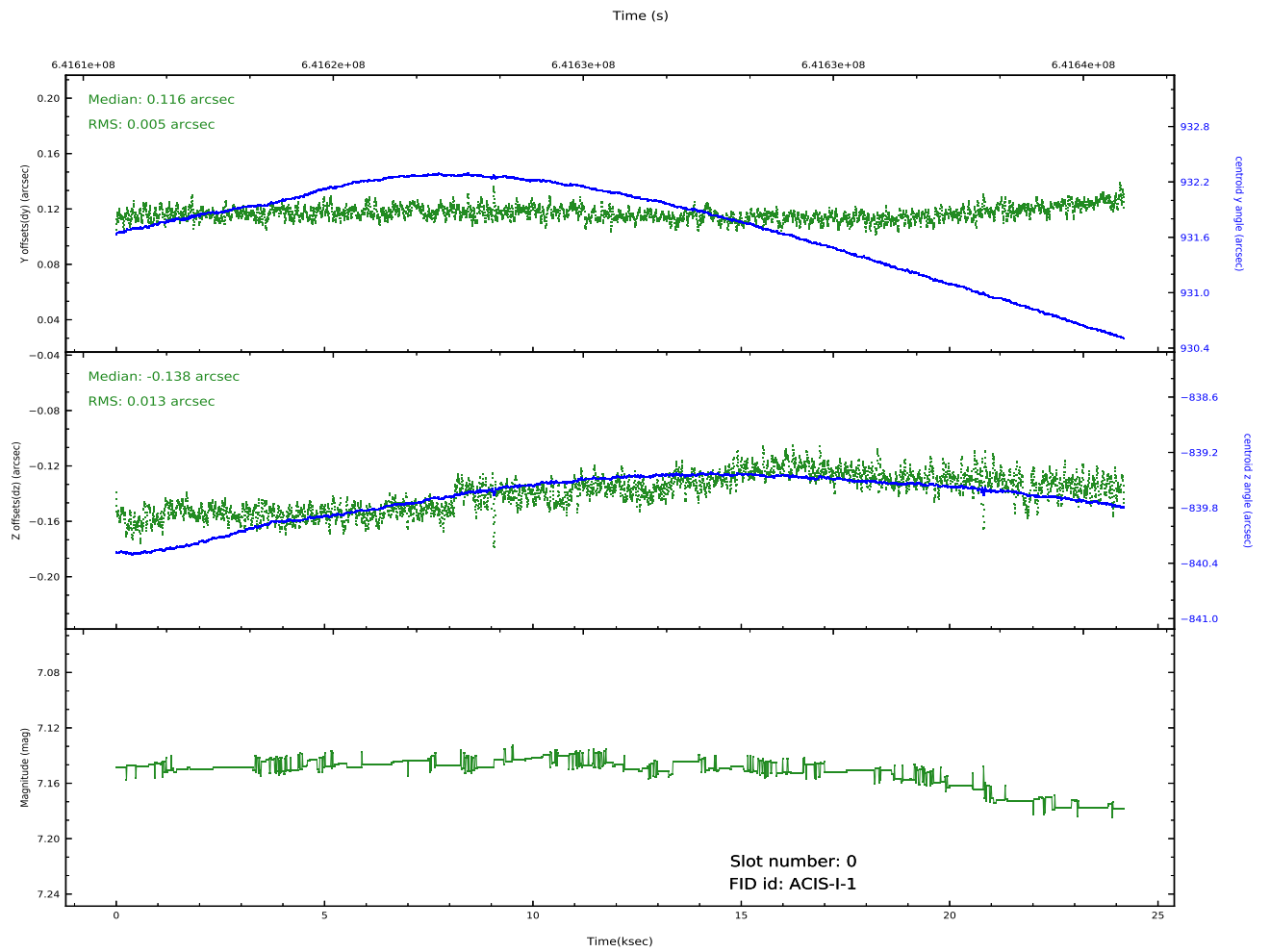
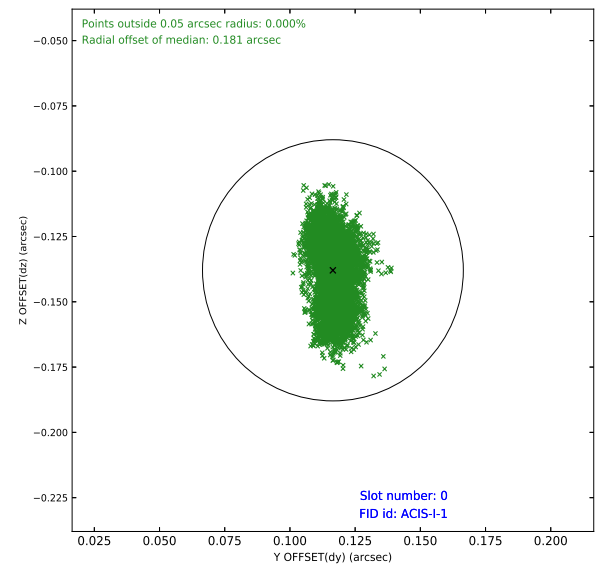
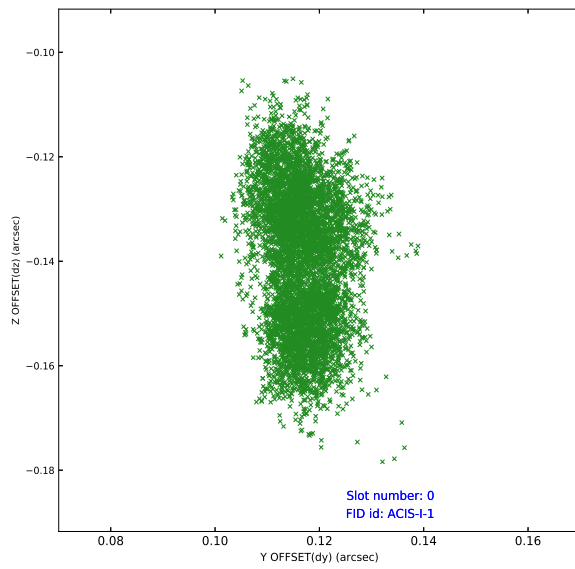


Time (s)

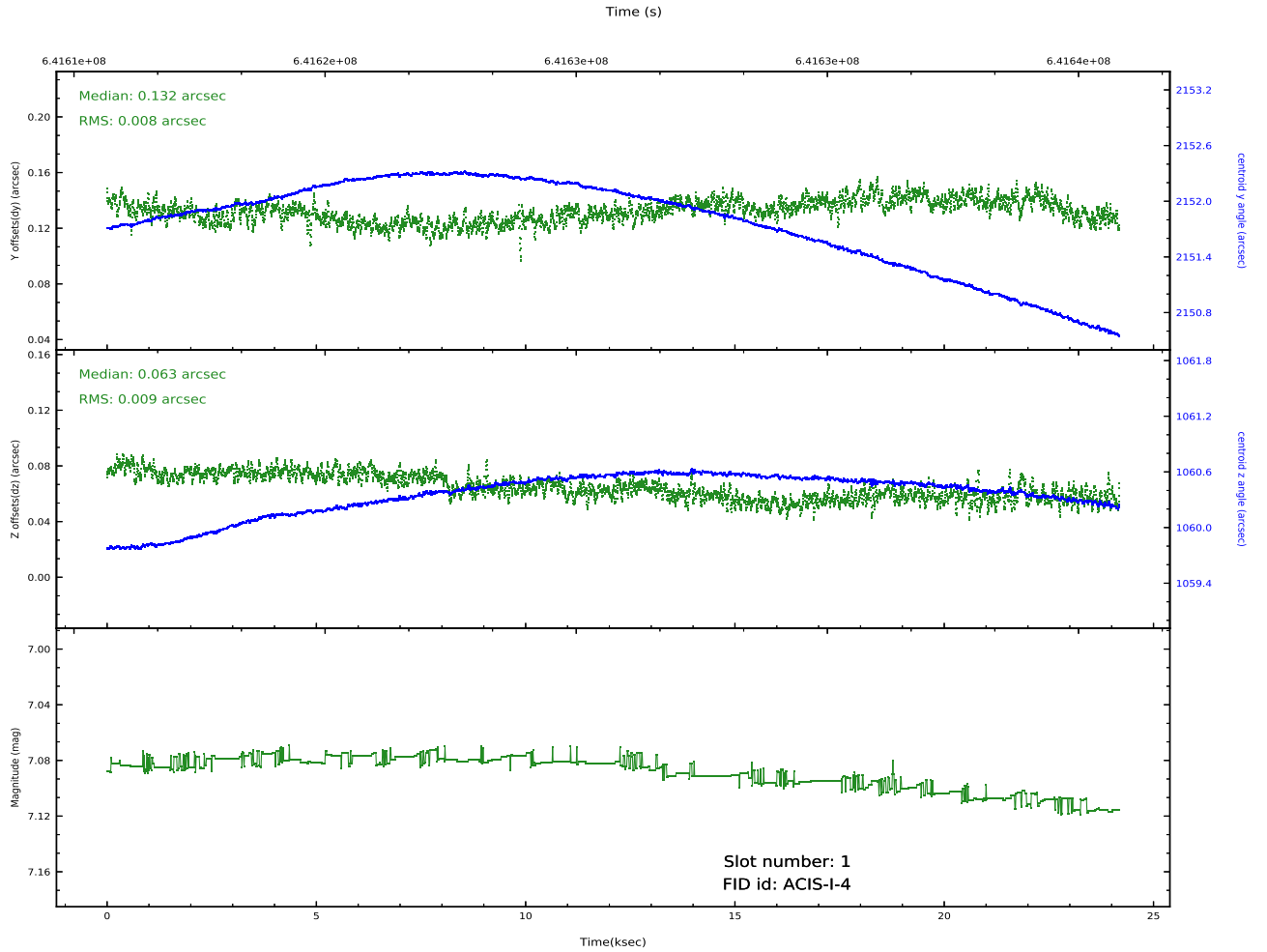
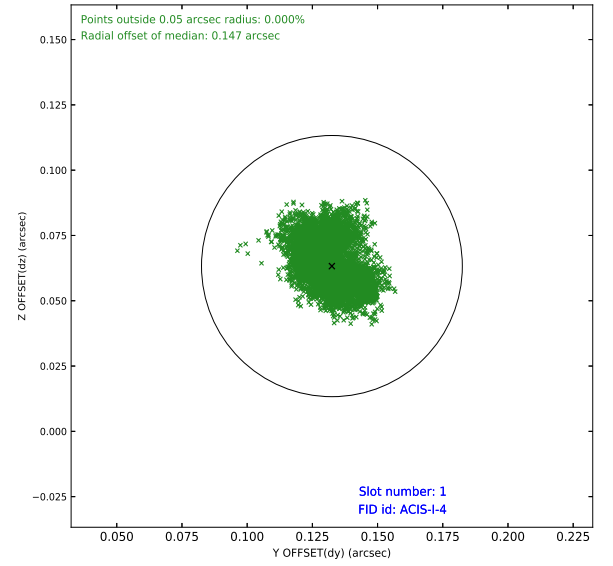
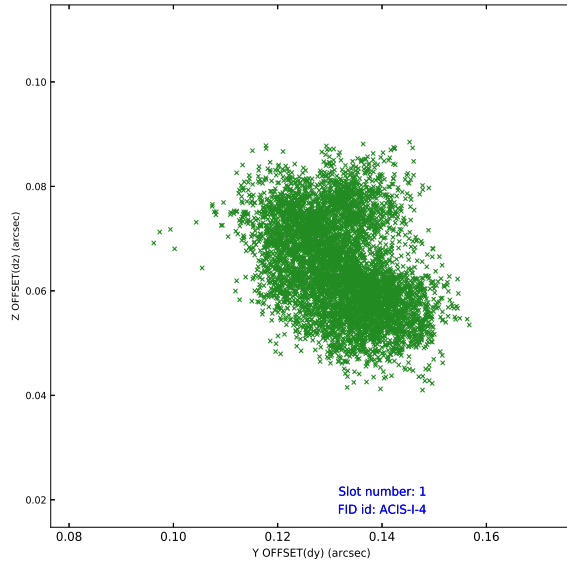


2.5 FID Slots

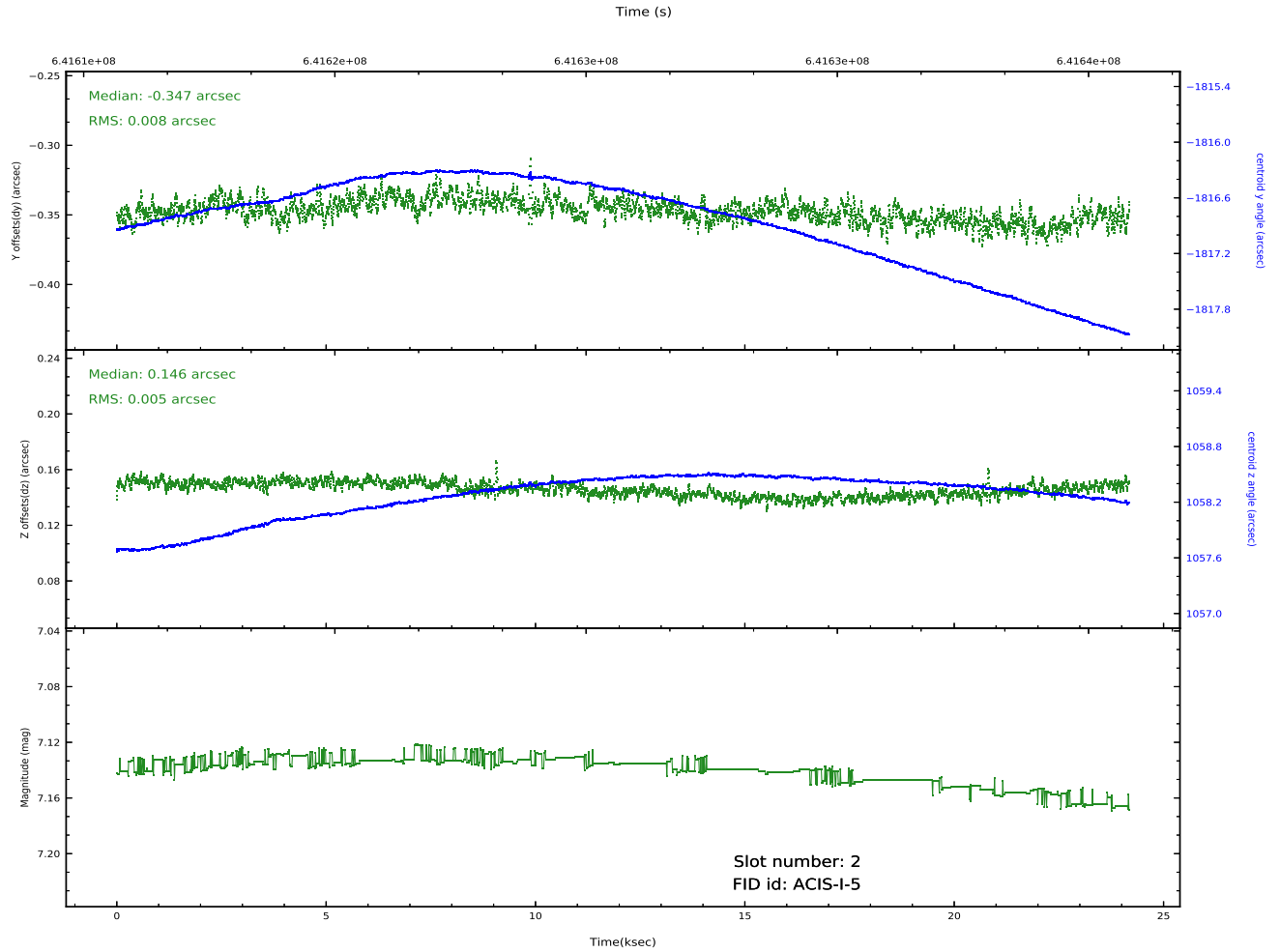
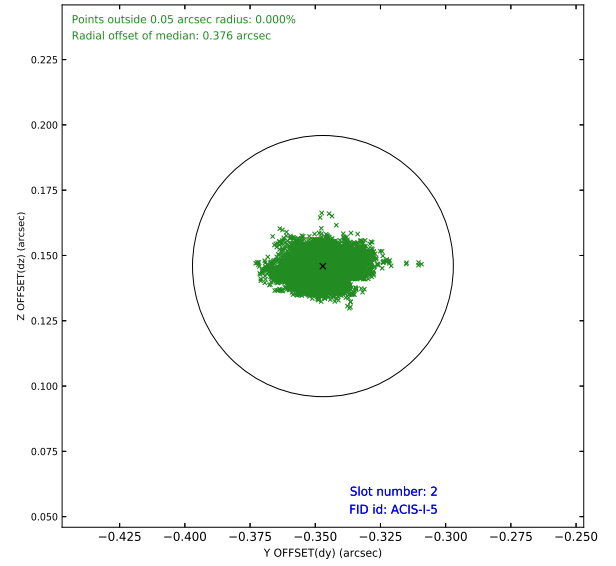
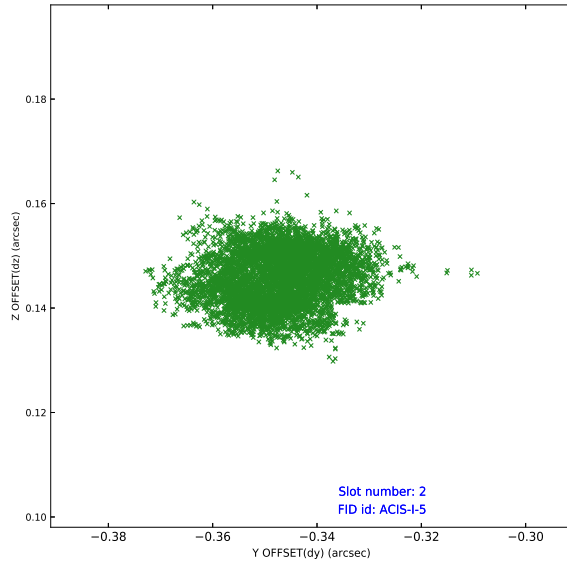
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	24.04971810472

A.2 Comments

The guide star in slot 5 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this slot from the solution.