

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19647 - L2 Version 2
Chandra X-Ray Center

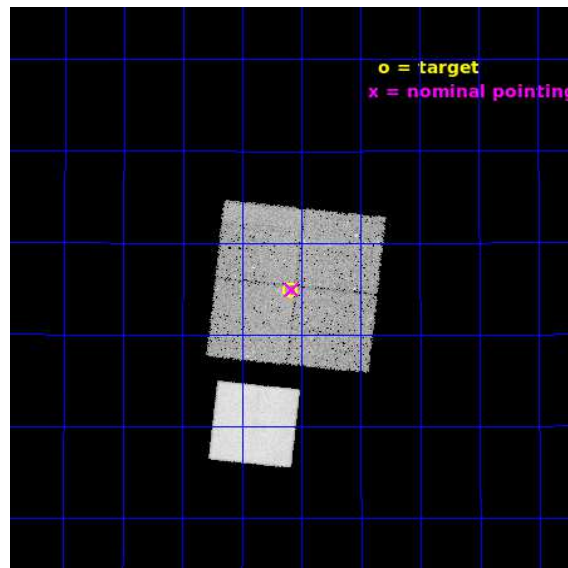
L2 Processing Date : Oct 25 2020

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1 Front

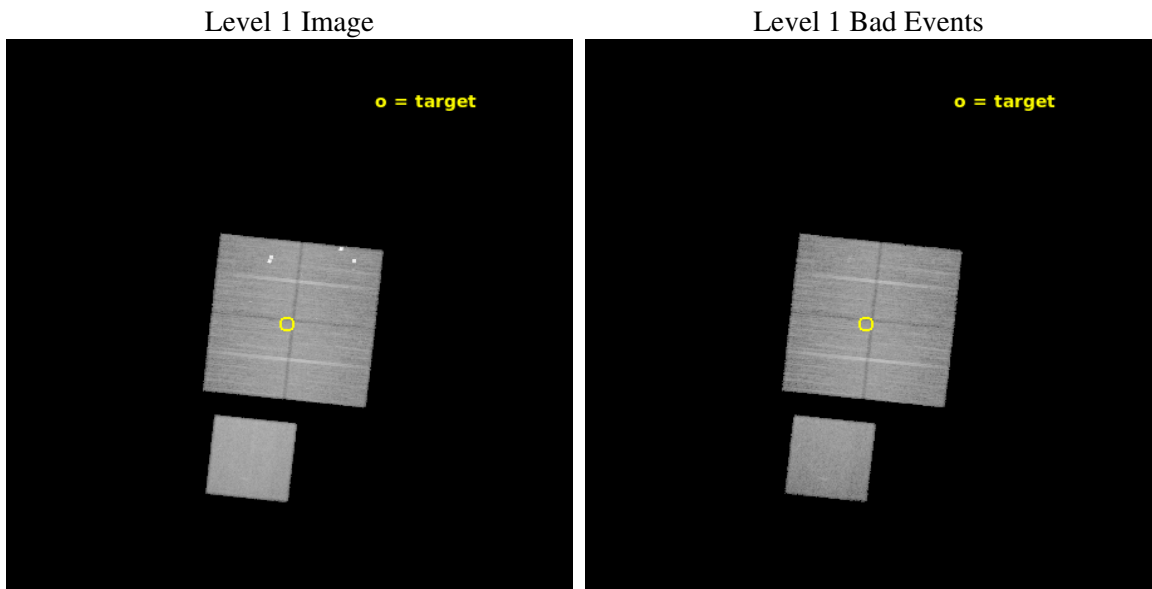
seq_num	901354	Sequence number
obs_id	19647	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.52442	Observer's specified target RA [deg]
dec_targ	34.24749	Observer's specified target Dec [deg]
ra_nom	218.51975212993	Nominal RA [deg]
dec_nom	34.248559998547	Nominal Dec [deg]
roll_nom	186.19964638787	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25057.300192833	Sum of GTIs [s]
livetime	24729.908118898	Livetime [s]
ontime0	25057.300192833	Sum of GTIs [s]
ontime1	25057.300192833	Sum of GTIs [s]
ontime2	25054.159142494	Sum of GTIs [s]
ontime3	25057.300192833	Sum of GTIs [s]
ontime7	25057.300192833	Sum of GTIs [s]
l2events	169579	Number of level 2 events



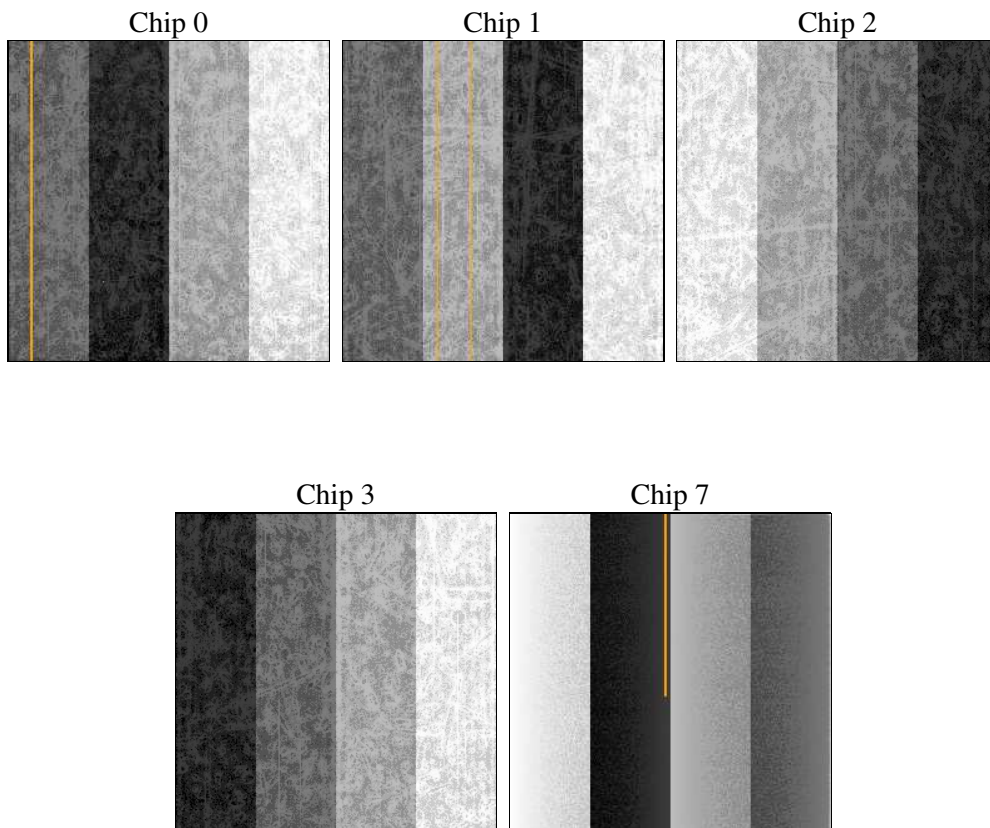
2 OBI

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	25057.300192833	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	25057.300192833	Sum of GTIs [s]
date	2020-10-25T23:03:23	Date and time of file creation	ontime1	25057.300192833	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25054.159142494	Sum of GTIs [s]
			ontime3	25057.300192833	Sum of GTIs [s]
			ontime7	25057.300192833	Sum of GTIs [s]
			l1events	996954	Number of level 1 events

2.1.4 Events

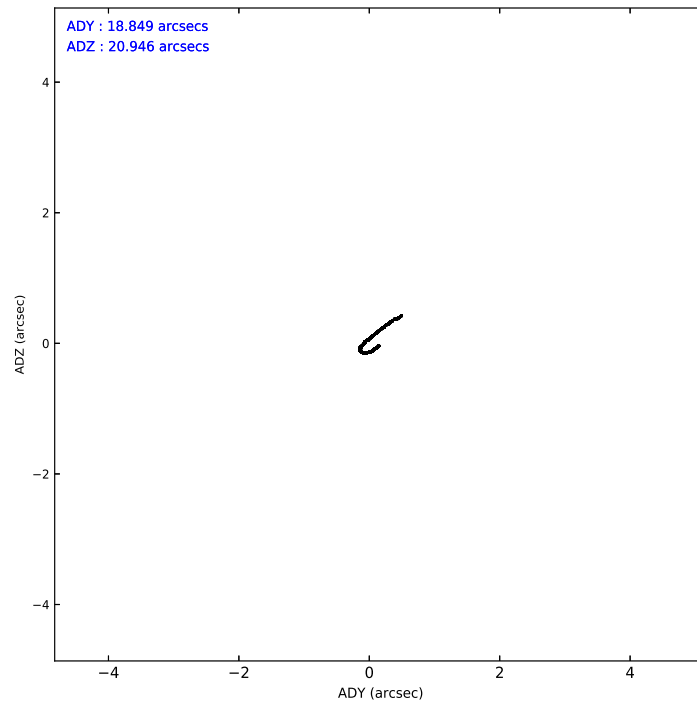
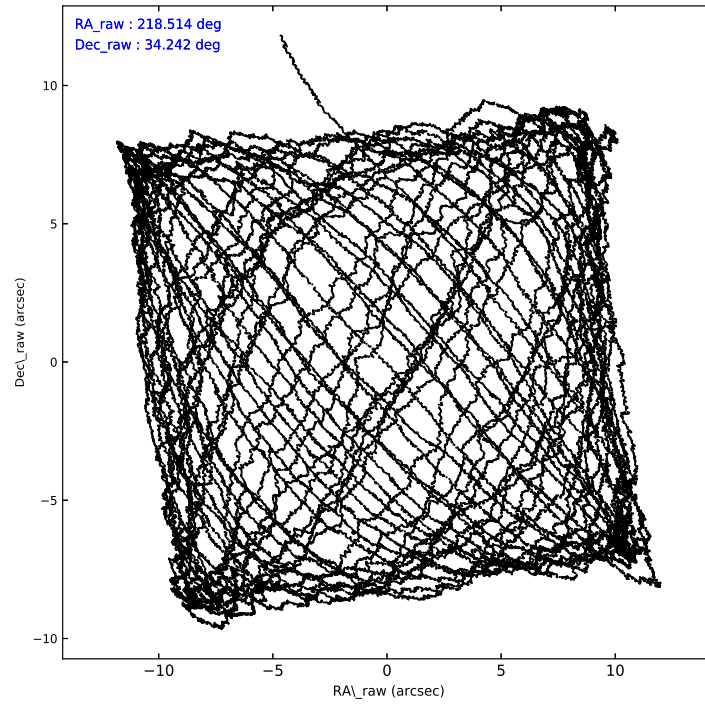
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	186802	191613	190399	185182	242958
rejected events	150898	155587	170777	165934	138392
rejected %	80%	81%	89%	89%	56%

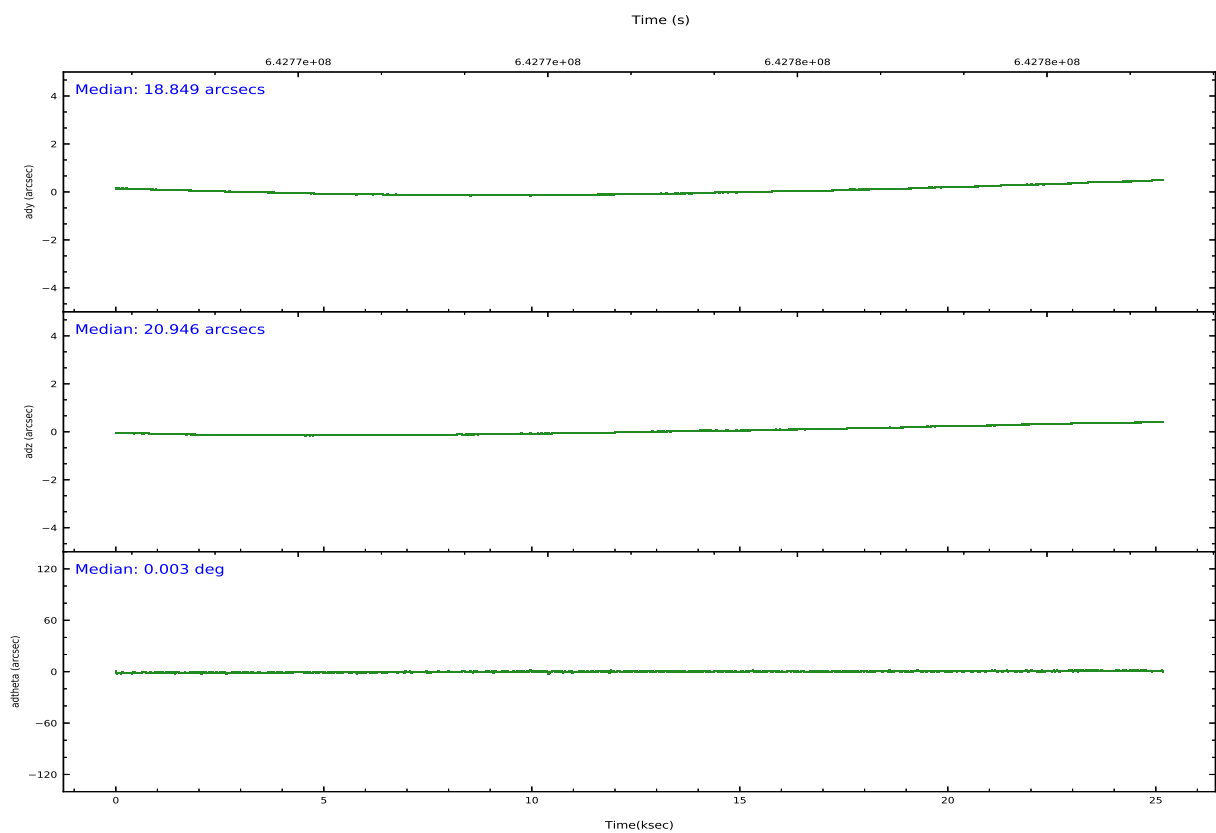
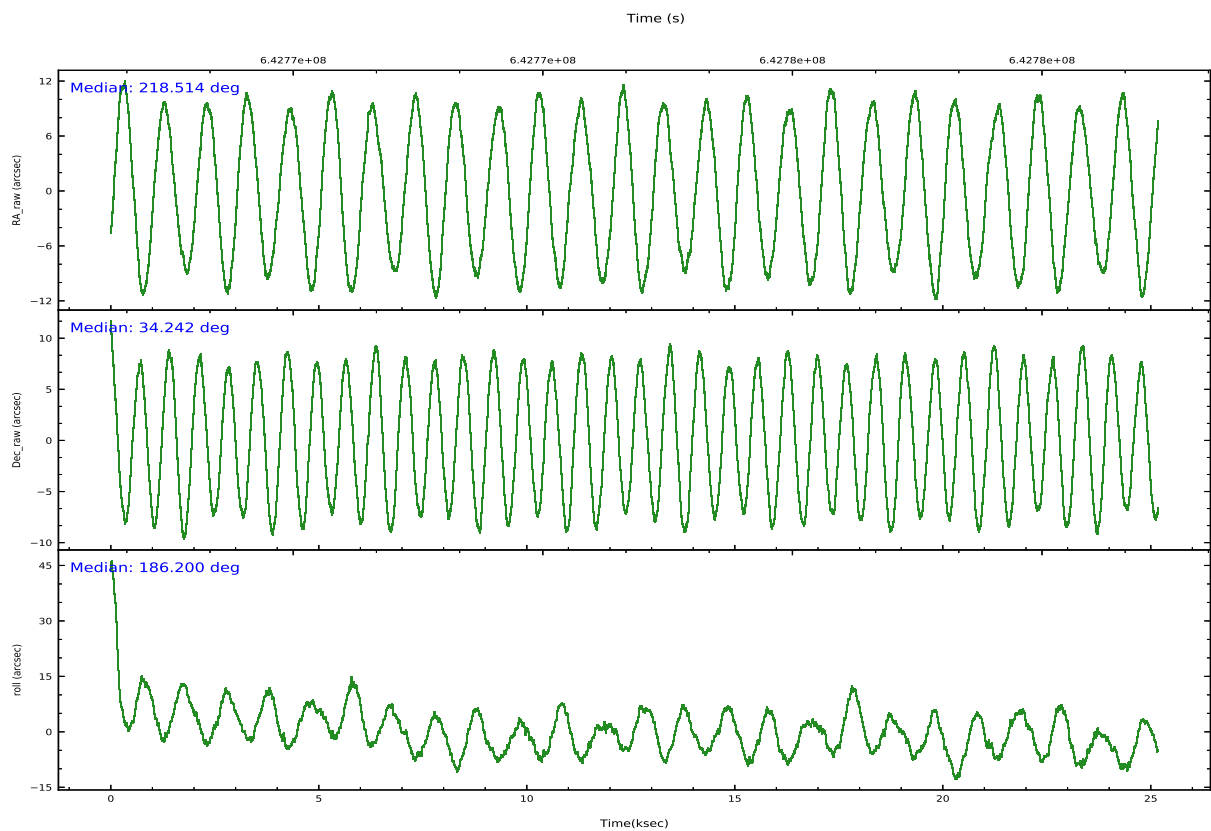
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	14854	13353	6921	6595	8605
	7%	6%	3%	3%	3%
grade 1 events	147	150	94	110	327
	0%	0%	0%	0%	0%
grade 2 events	12501	13293	4766	4223	22077
	6%	6%	2%	2%	9%
grade 3 events	2191	2185	2061	2031	8517
	1%	1%	1%	1%	3%
grade 4 events	2062	2103	2017	2075	8161
	1%	1%	1%	1%	3%
grade 5 events	7940	8176	7411	8962	23808
	4%	4%	3%	4%	9%
grade 6 events	4305	5105	3860	4325	57216
	2%	2%	2%	2%	23%
grade 7 events	142802	147248	163269	156861	114247
	76%	76%	85%	84%	47%

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	218.540948	218.51975212993	CCD I2 on	Y	Y
[deg] Pointing Dec	34.258274	34.248559998547	CCD I3 on	Y	Y
[deg] Pointing Roll	185.990703	186.19964638787	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)	642761791.184000	642760829.17395	CCD S5 on	N	N
Observation start date	2018-05-15T08:55:22	2018-05-15T08:40:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	642786791.184000	642787663.16303	On-chip summing requested	N	N
Observation end date	2018-05-15T15:52:02	2018-05-15T16:07:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



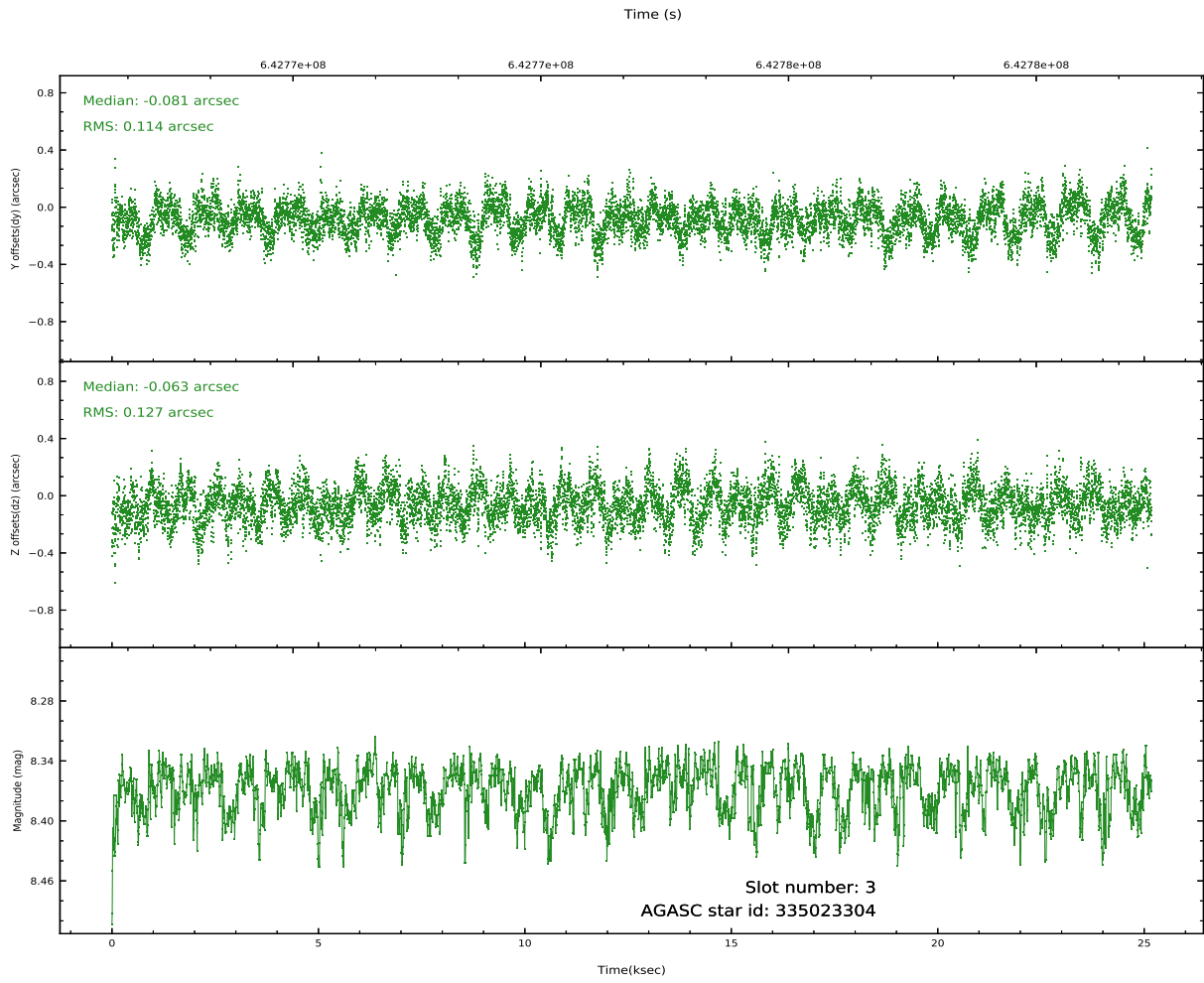
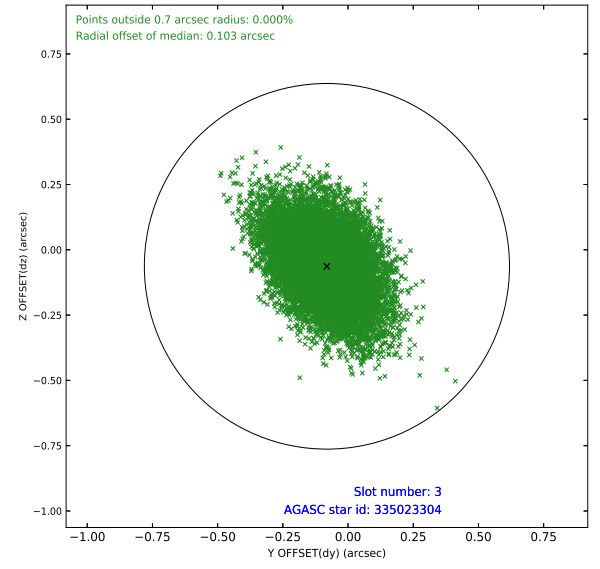
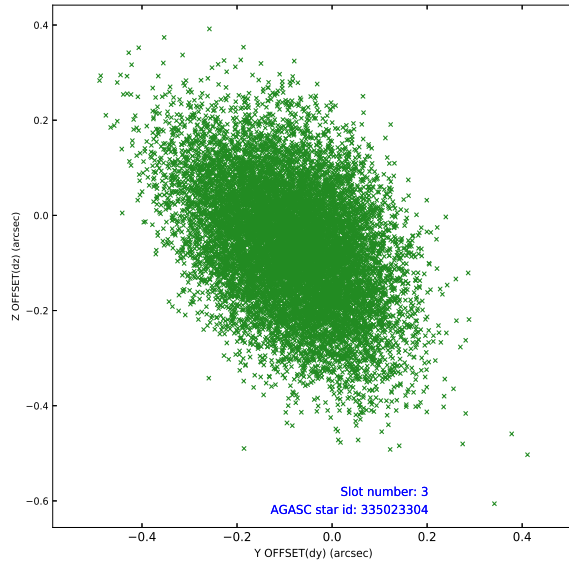


Slot Statistics

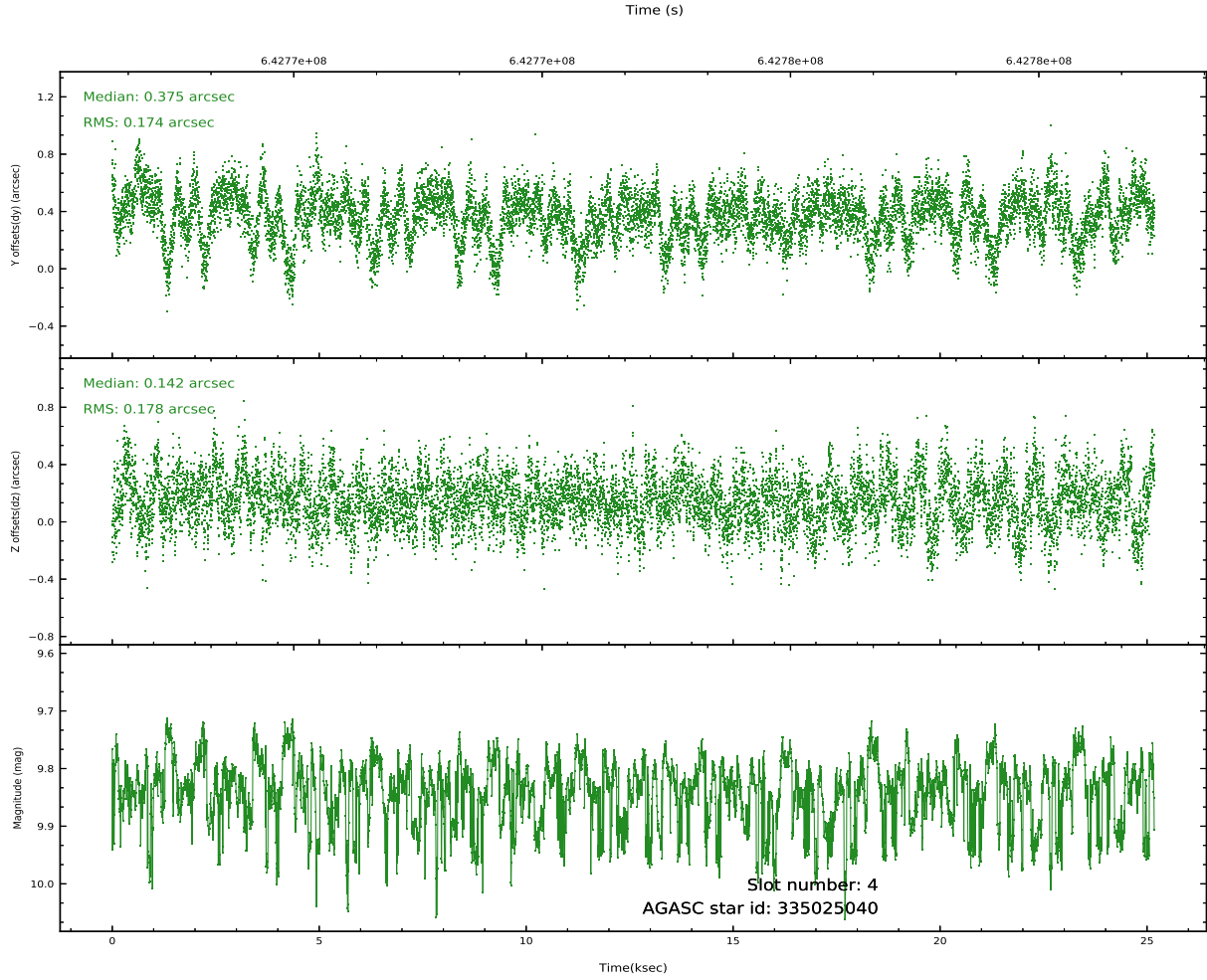
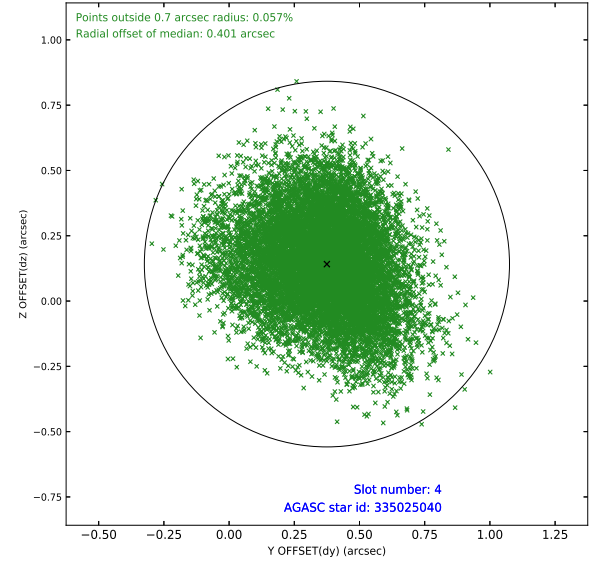
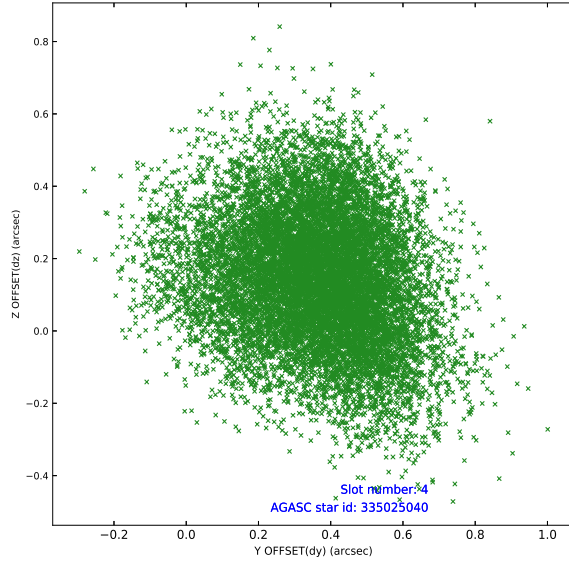
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.17	6141	1.000	0.206	-0.158	0.010	0.016	0.000000	0.000000	920.57	-844
1	FID		ACIS-I-5	7.16	6140	1.000	-0.295	0.175	0.008	0.013	0.000000	0.000000	-1827.80	1053
2	FID		ACIS-I-6	7.18	6141	1.000	-0.003	0.053	0.008	0.014	0.000000	0.000000	386.01	1697
3	GUIDE	used	335023304	8.37	12276	1.000	-0.081	-0.063	0.178	0.299	218.883608	34.686545	-1169.79	-1428
4	GUIDE	used	335025040	9.83	12255	1.000	0.375	0.142	0.266	0.435	218.601670	34.305240	-196.71	-148
5	GUIDE	used	335152784	7.23	12282	1.000	-0.078	-0.111	0.180	0.303	219.280617	33.678221	-1987.65	2300
6	GUIDE	used	335157088	9.03	12261	1.000	-0.007	0.079	0.167	0.296	219.274029	33.726909	-1984.99	2124
7	GUIDE	used	335153056	10.02	12022	1.000	-0.173	-0.050	0.355	0.545	219.264627	34.869152	-2355.39	-1971

2.4 Star Slots

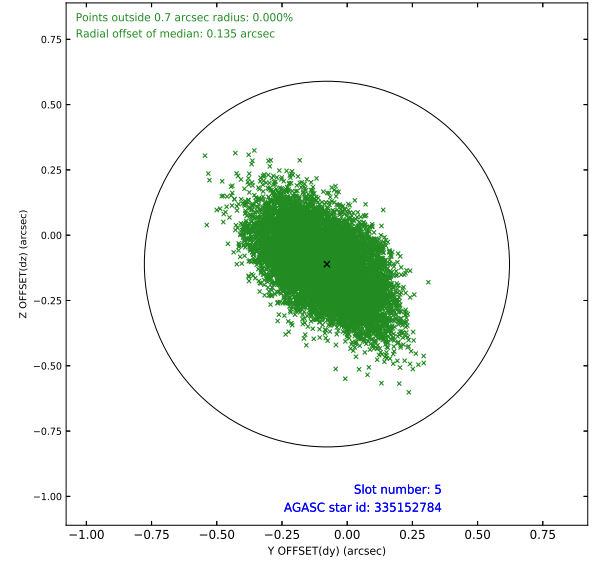
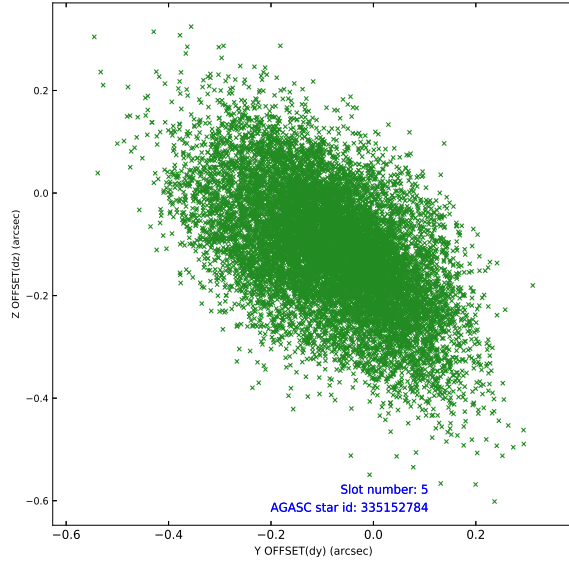
2.4.1 Slot 3



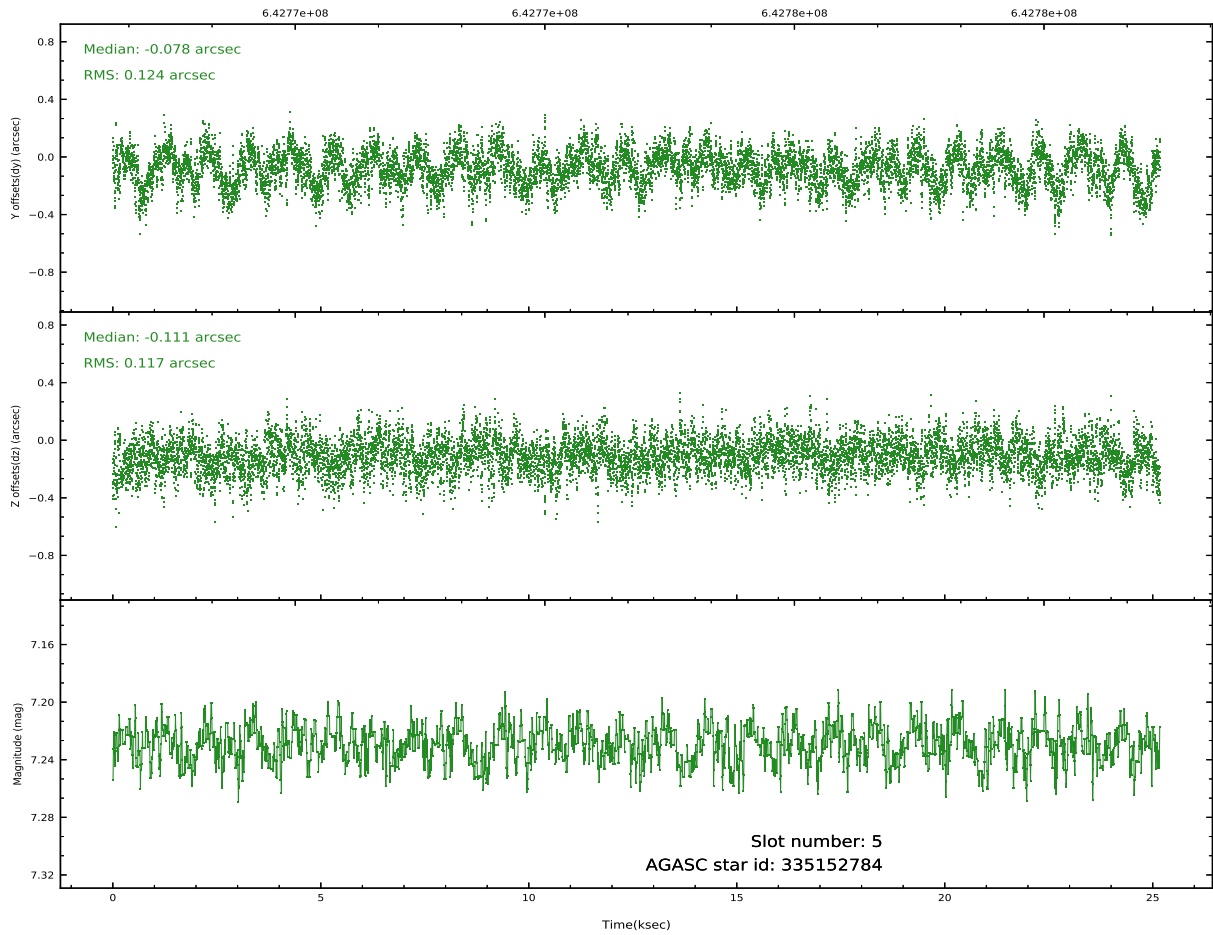
2.4.2 Slot 4



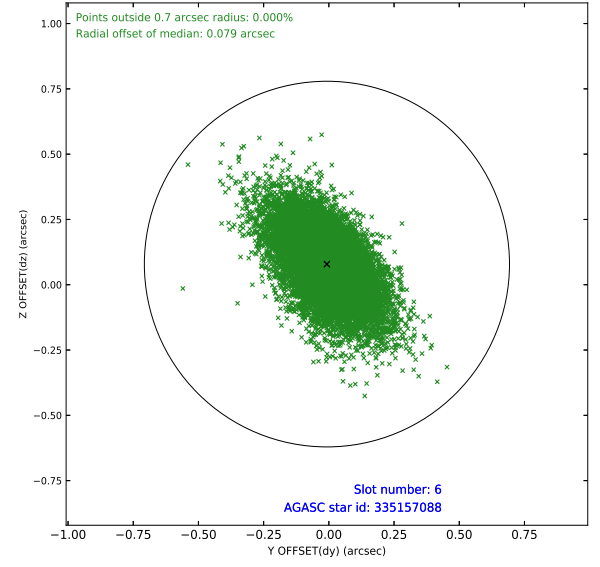
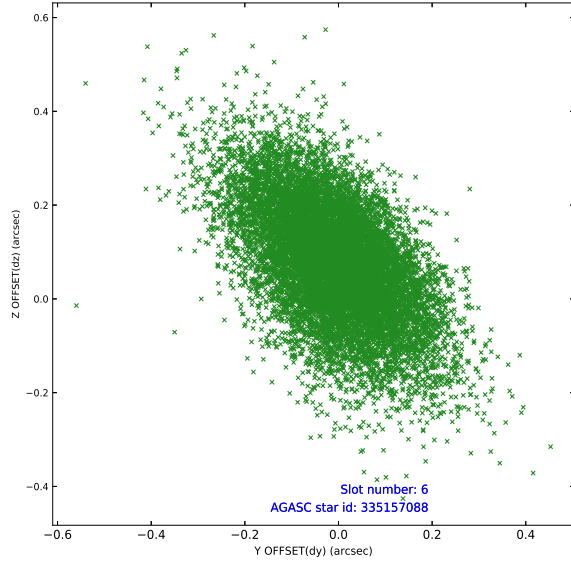
2.4.3 Slot 5



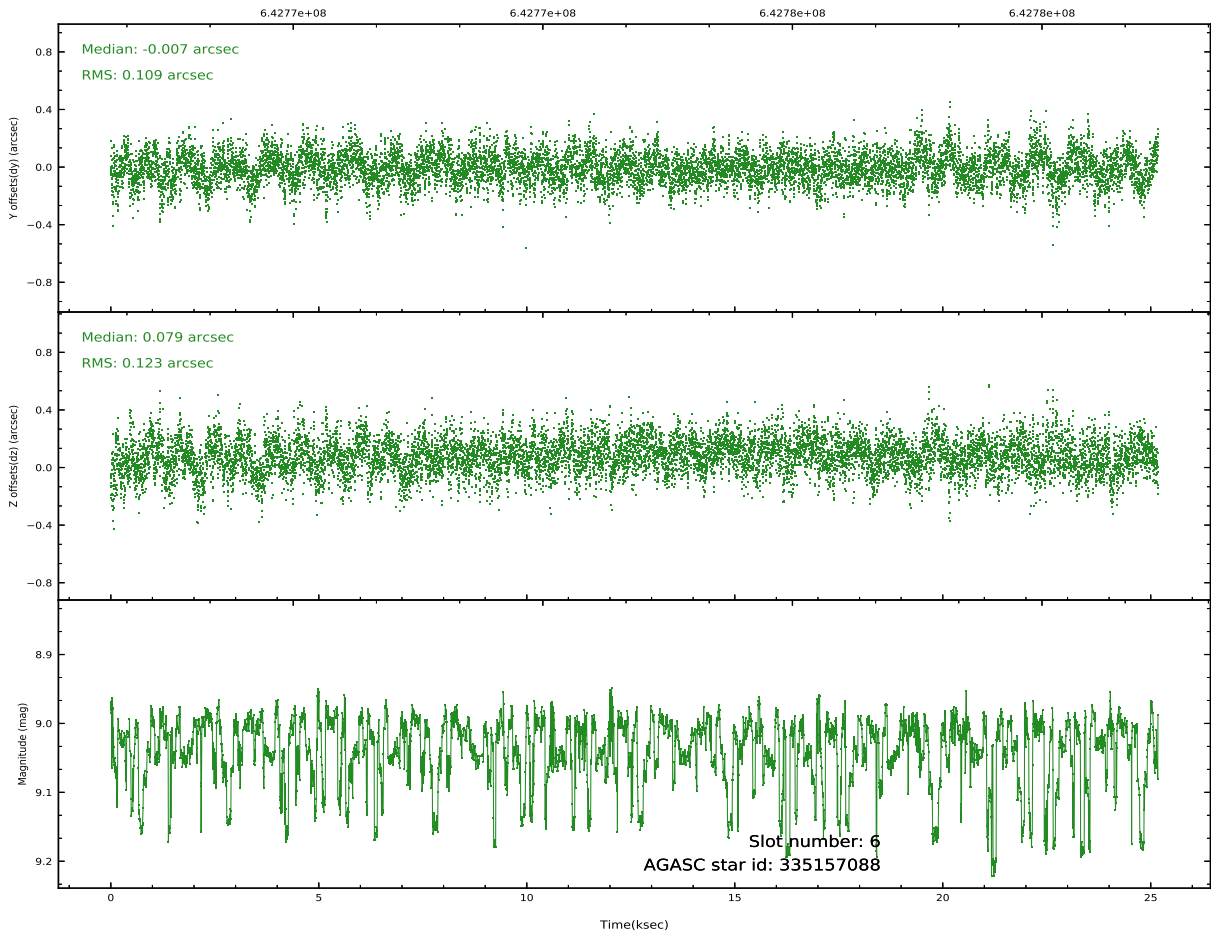
Time (s)



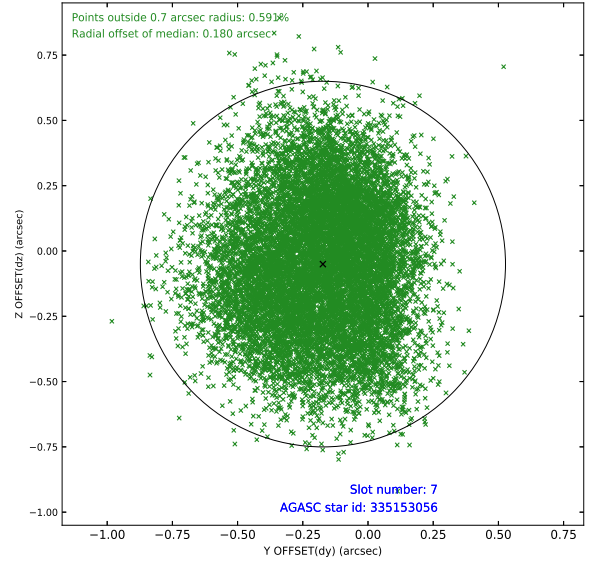
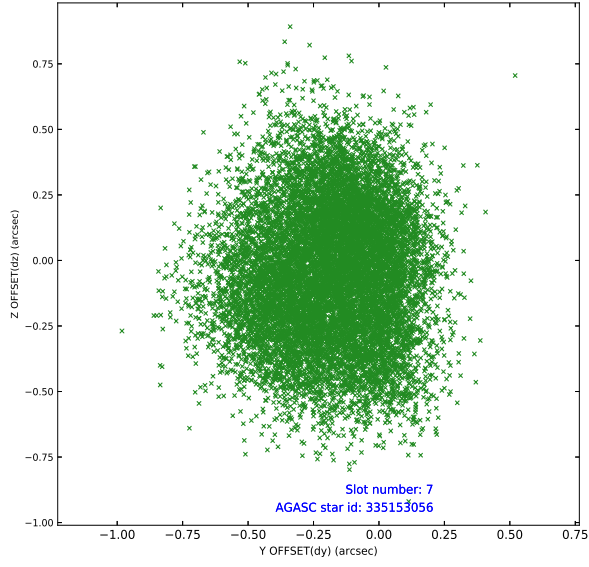
2.4.4 Slot 6



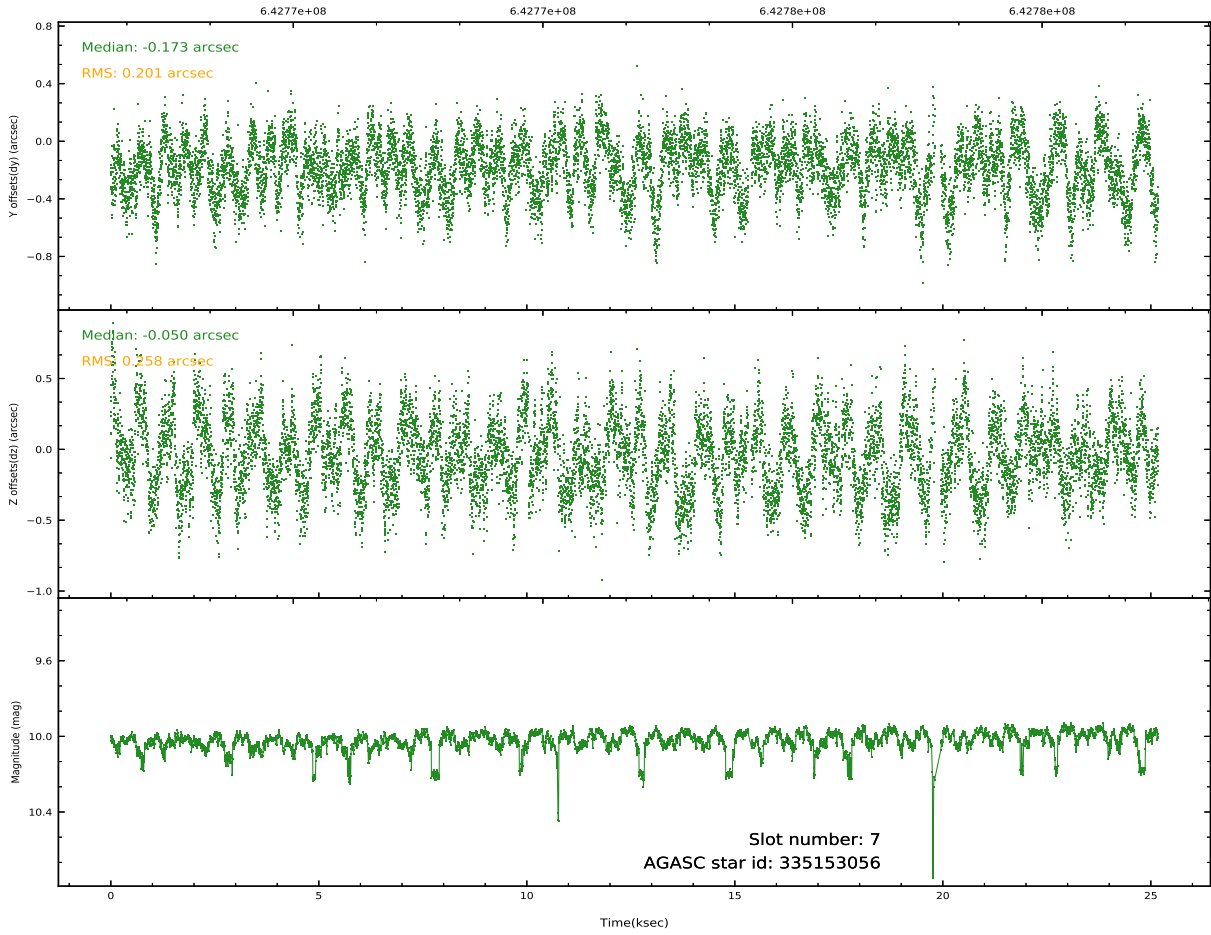
Time (s)



2.4.5 Slot 7

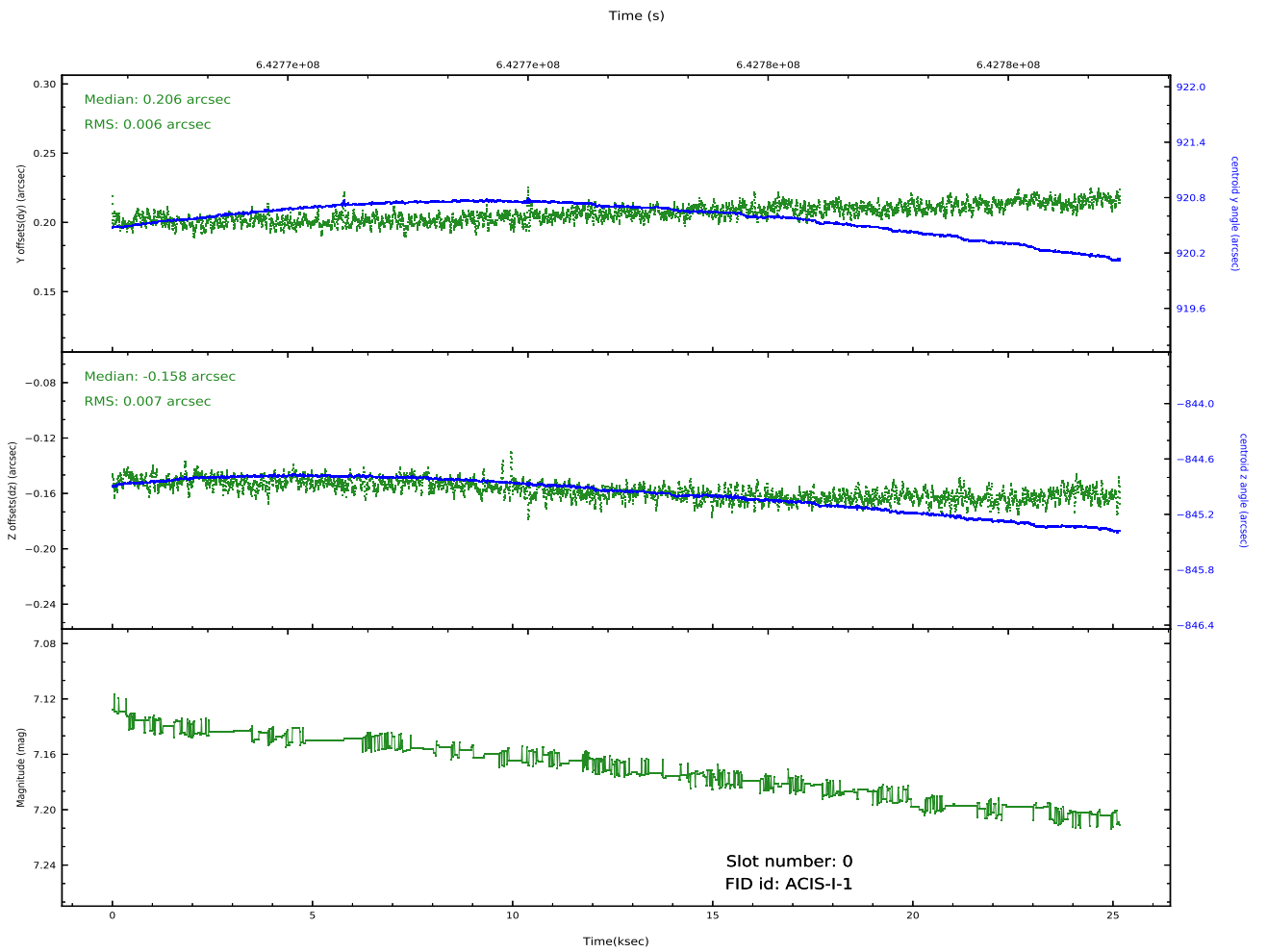
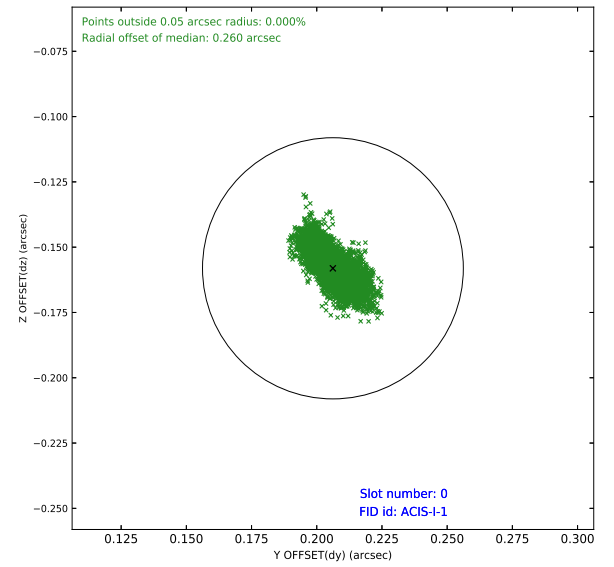
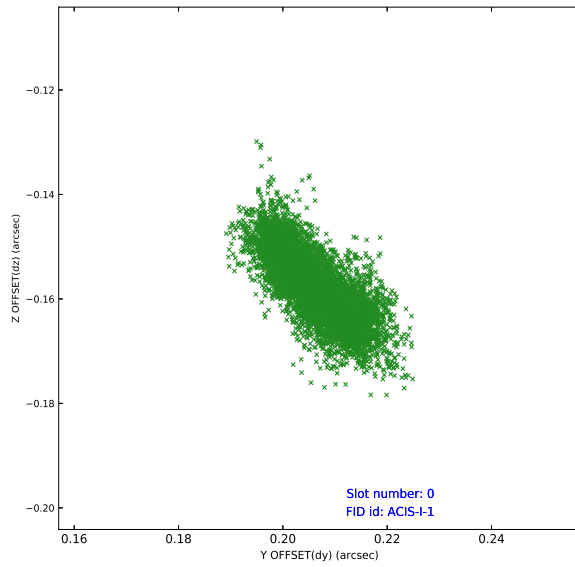


Time (s)

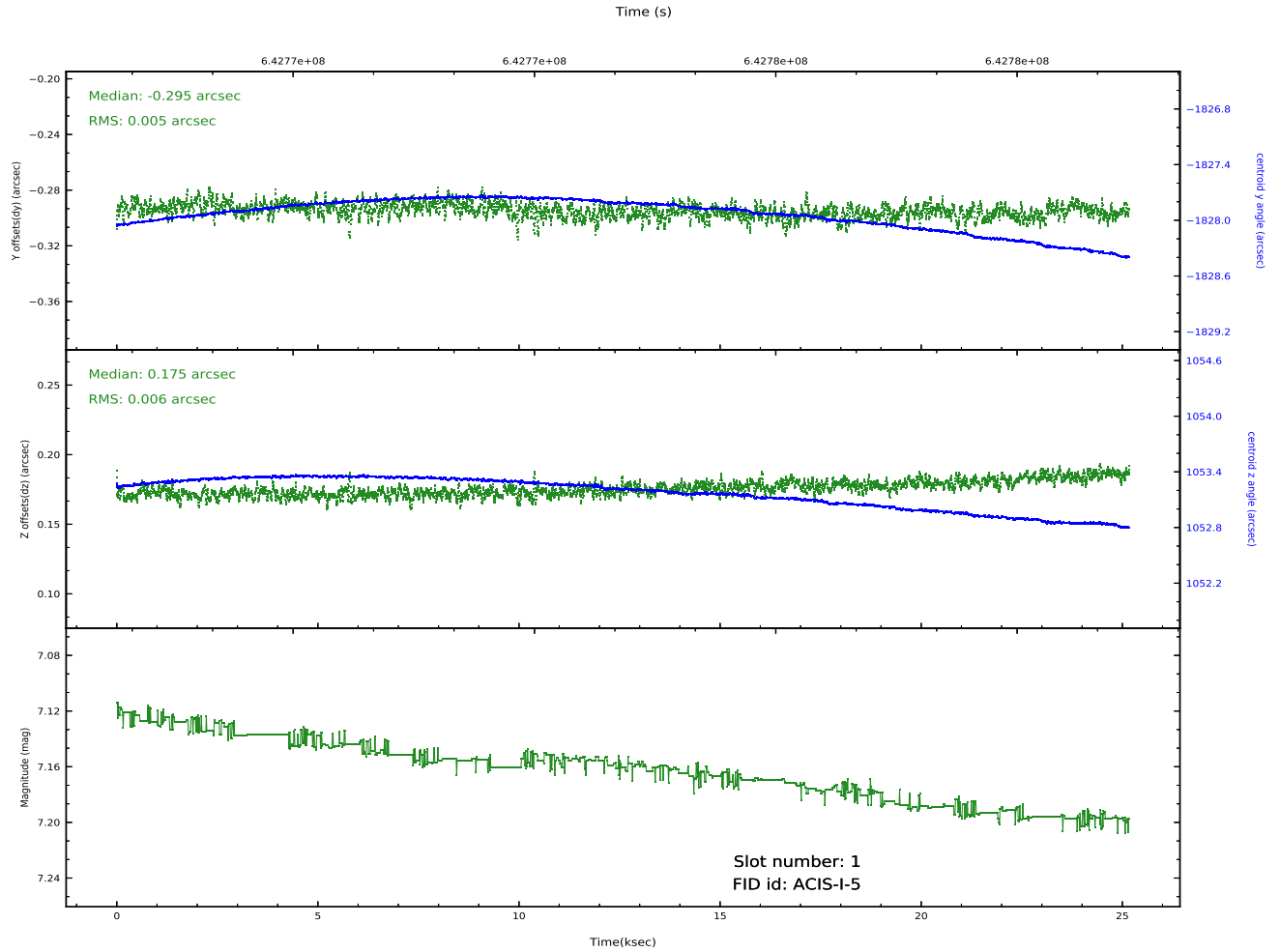
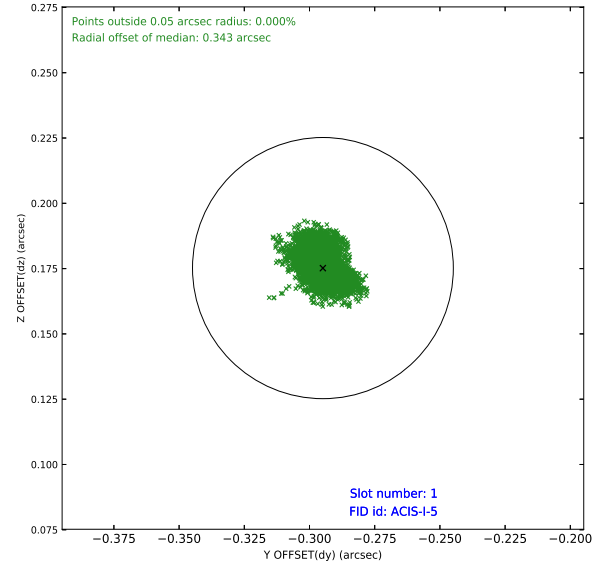
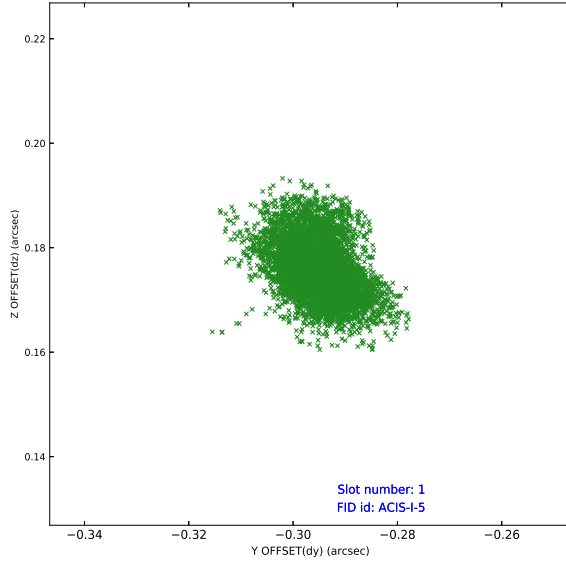


2.5 FID Slots

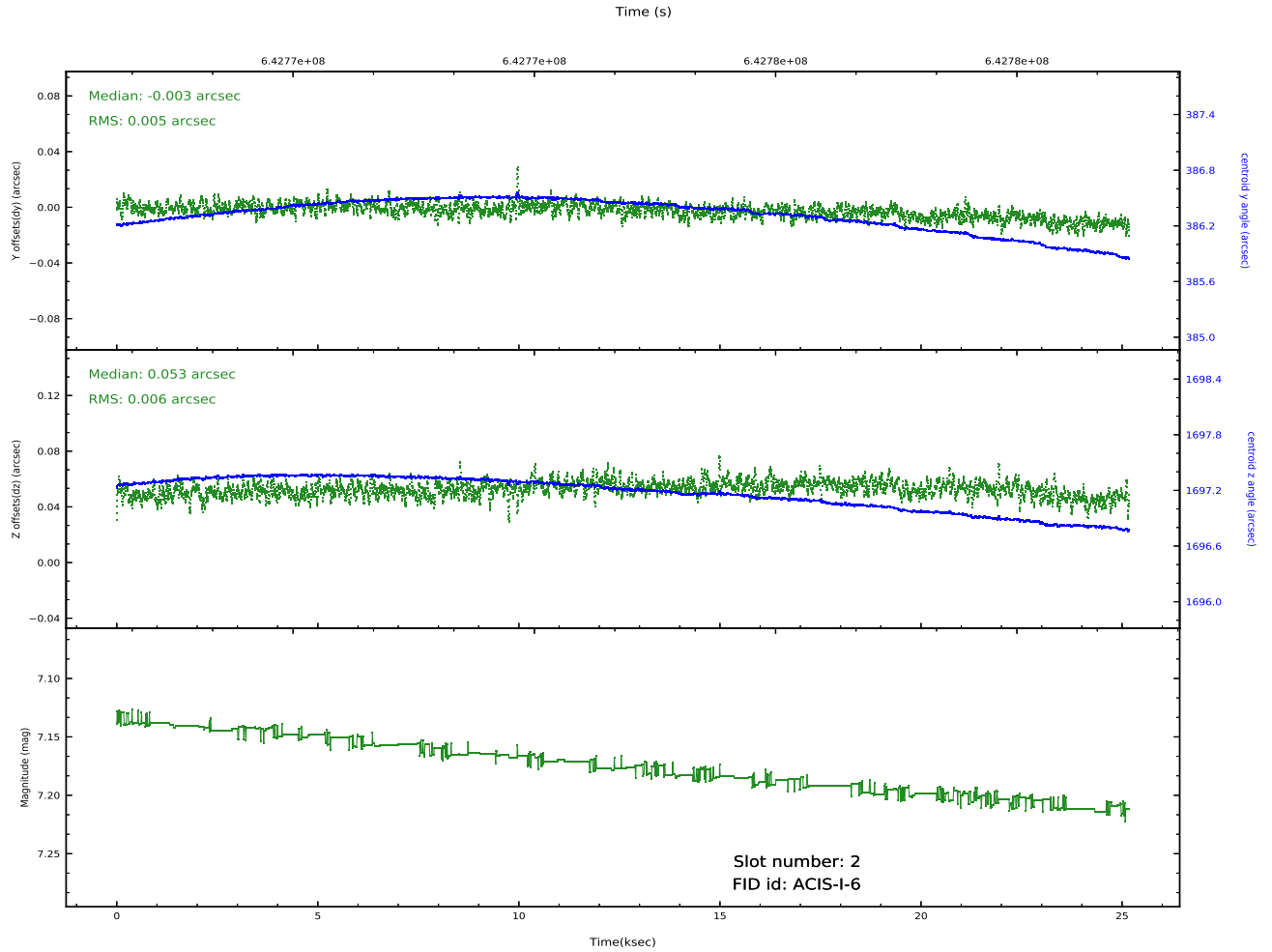
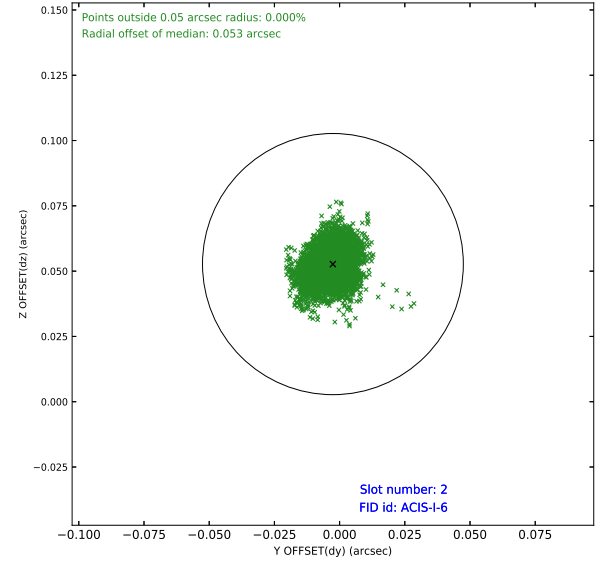
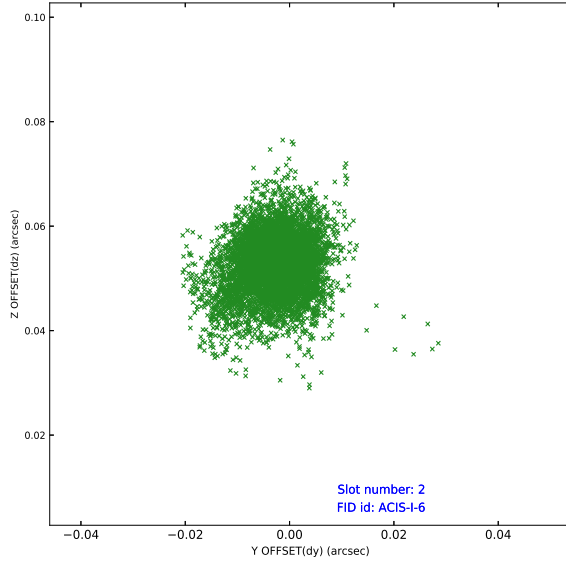
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



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	25.057300192833

A.2 Comments

Roll preference met.