

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19669 - L2 Version 2
Chandra X-Ray Center

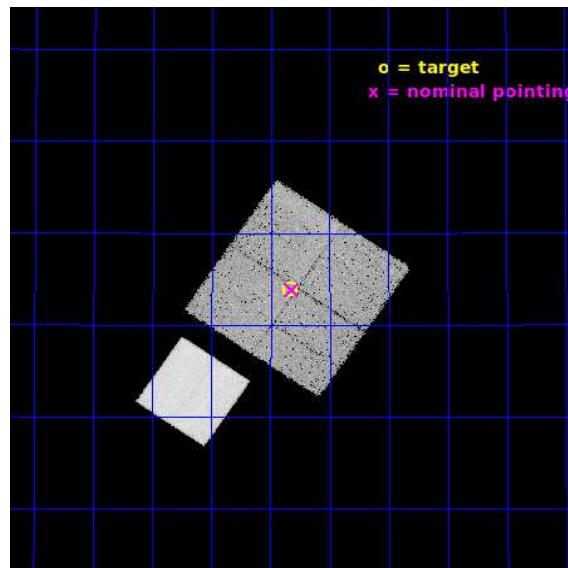
L2 Processing Date : Oct 26 2020

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1 Front

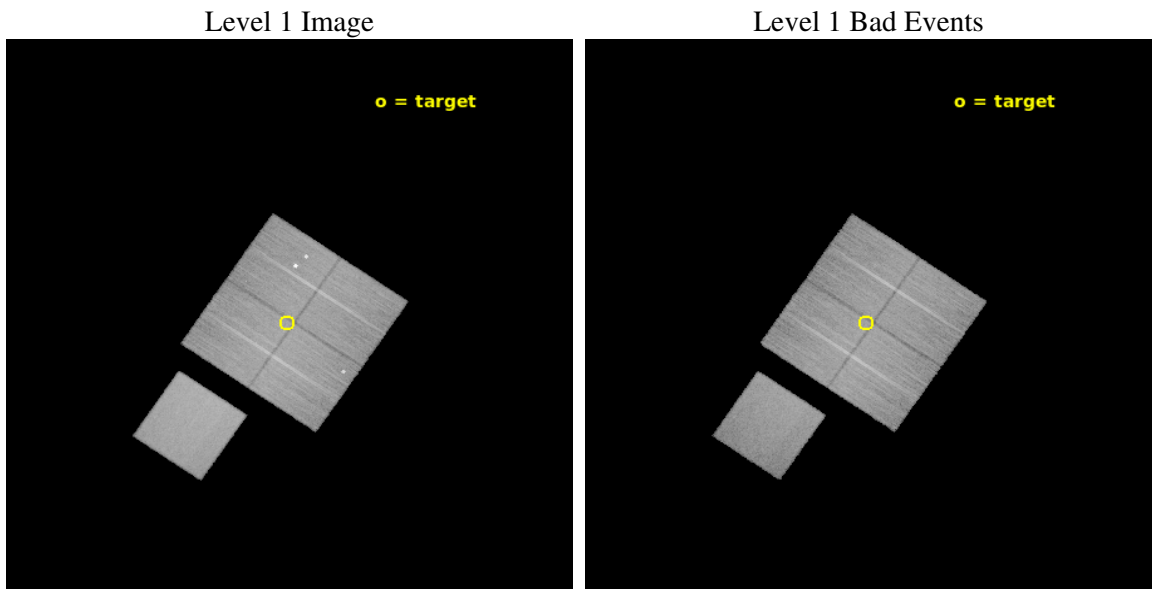
seq_num	901376	Sequence number
obs_id	19669	Observation id
title	The Chandra Deep Wide-Field Survey: Completing the new generation of Chandra extragalactic surveys	Proposal title
observer	Ryan Hickox	Principal investigator
object	Xbootes (CDWFS)	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	218.58473	Observer's specified target RA [deg]
dec_targ	34.731917	Observer's specified target Dec [deg]
ra_nom	218.57980932016	Nominal RA [deg]
dec_nom	34.730910207693	Nominal Dec [deg]
roll_nom	214.20720131452	Nominal Roll [deg]
revision	2	Processing version of data
ontime	25051.059132338	Sum of GTIs [s]
livetime	24723.748602452	Livetime [s]
ontime0	25051.05914259	Sum of GTIs [s]
ontime1	25054.200192809	Sum of GTIs [s]
ontime2	25054.200192809	Sum of GTIs [s]
ontime3	25051.059132338	Sum of GTIs [s]
ontime7	25054.200192809	Sum of GTIs [s]
l2events	169251	Number of level 2 events



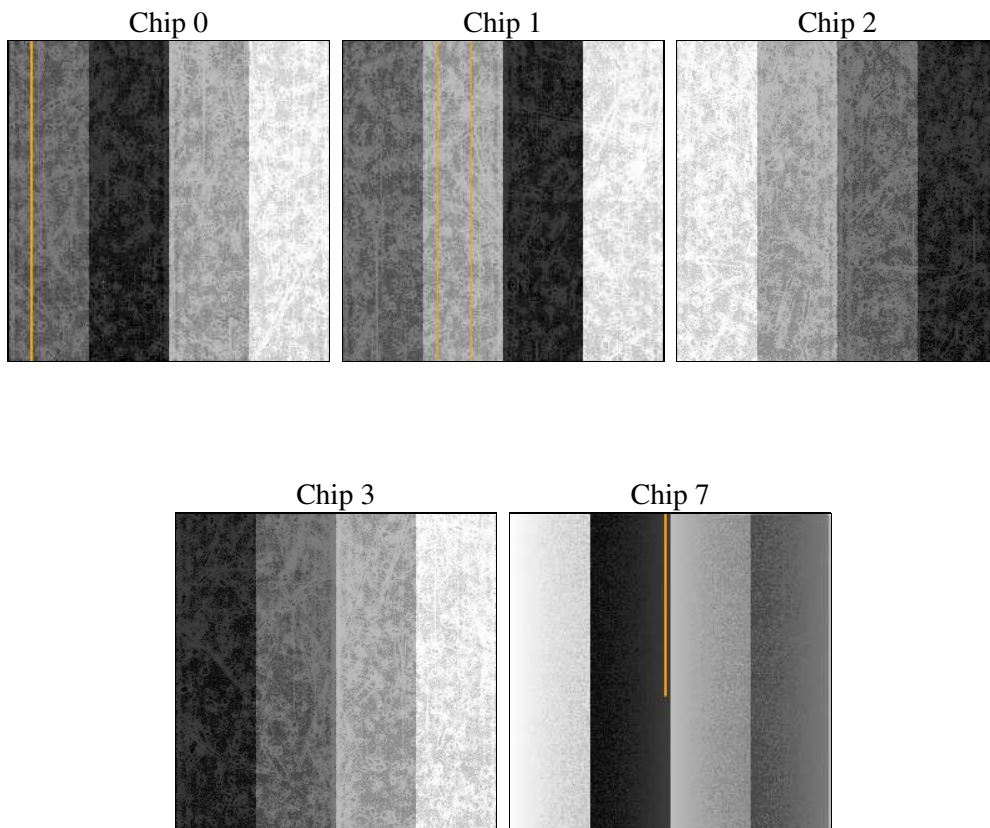
2 OBI

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	25051.059132338	Sum of GTIs [s]
caldsver	4.9.3	 	ontime0	25051.05914259	Sum of GTIs [s]
date	2020-10-26T09:55:20	Date and time of file creation	ontime1	25054.200192809	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	25054.200192809	Sum of GTIs [s]
			ontime3	25051.059132338	Sum of GTIs [s]
			ontime7	25054.200192809	Sum of GTIs [s]
			l1events	974741	Number of level 1 events

2.1.4 Events

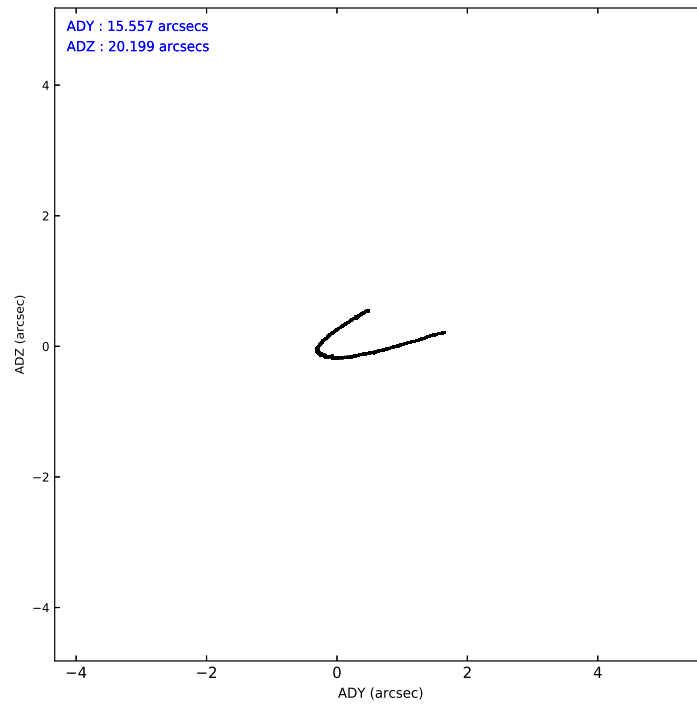
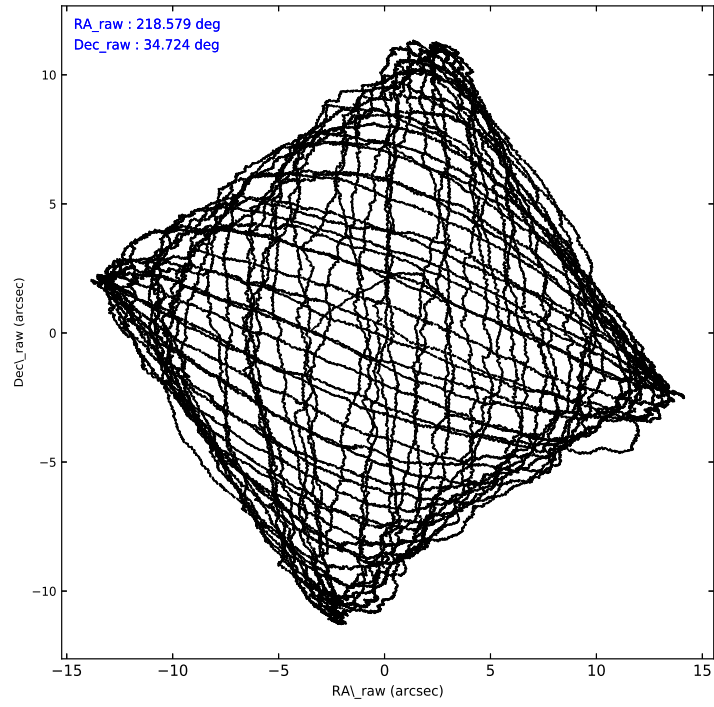
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	172682	184548	194057	182253	241201
rejected events	152197	150721	172535	163012	137058
rejected %	88%	81%	88%	89%	56%

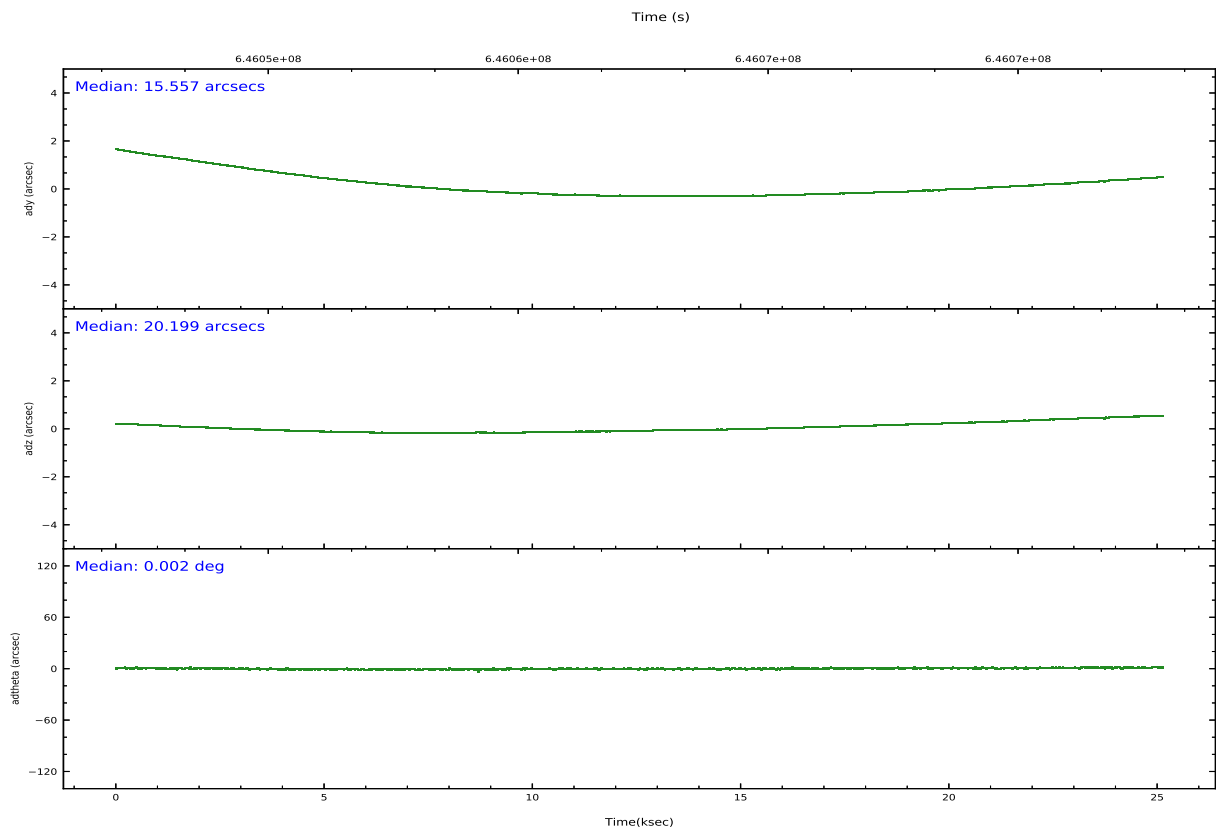
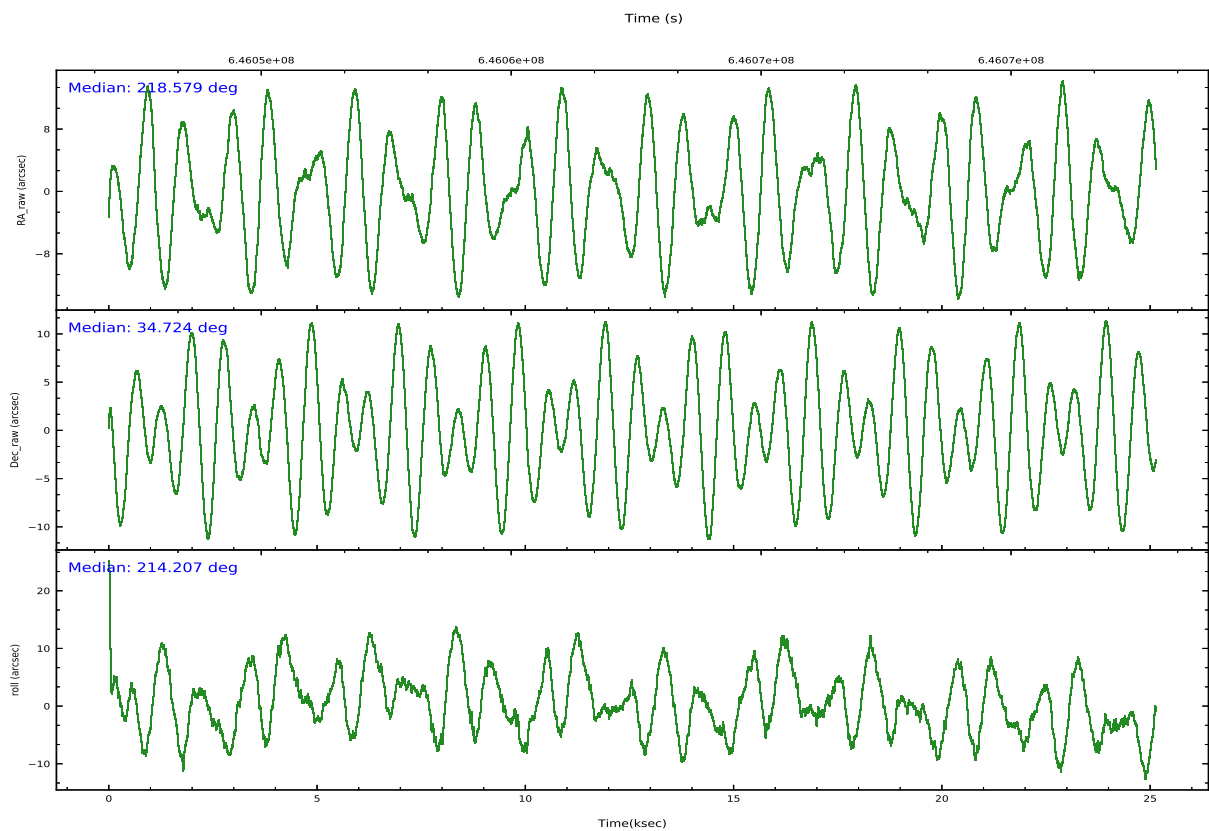
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	6837	10529	8783	6806	8634
	3%	5%	4%	3%	3%
grade 1 events	88	102	147	120	348
	0%	0%	0%	0%	0%
grade 2 events	5055	13854	4789	4317	21655
	2%	7%	2%	2%	8%
grade 3 events	2106	2162	1939	2034	8413
	1%	1%	0%	1%	3%
grade 4 events	1993	1987	2015	2051	8266
	1%	1%	1%	1%	3%
grade 5 events	7589	8118	7275	8885	23892
	4%	4%	3%	4%	9%
grade 6 events	4497	5299	3998	4034	57185
	2%	2%	2%	2%	23%
grade 7 events	144517	142497	165111	154006	112808
	83%	77%	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	218.593661	218.57980932016	CCD I2 on	Y	Y
[deg] Pointing Dec	34.748428	34.730910207693	CCD I3 on	Y	Y
[deg] Pointing Roll	213.994914	214.20720131452	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)	646050483.184000	646049163.64343	CCD S5 on	N	N
Observation start date	2018-06-22T10:26:54	2018-06-22T10:06:03	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	646075483.184000	646076859.14507	On-chip summing requested	N	N
Observation end date	2018-06-22T17:23:34	2018-06-22T17:47:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



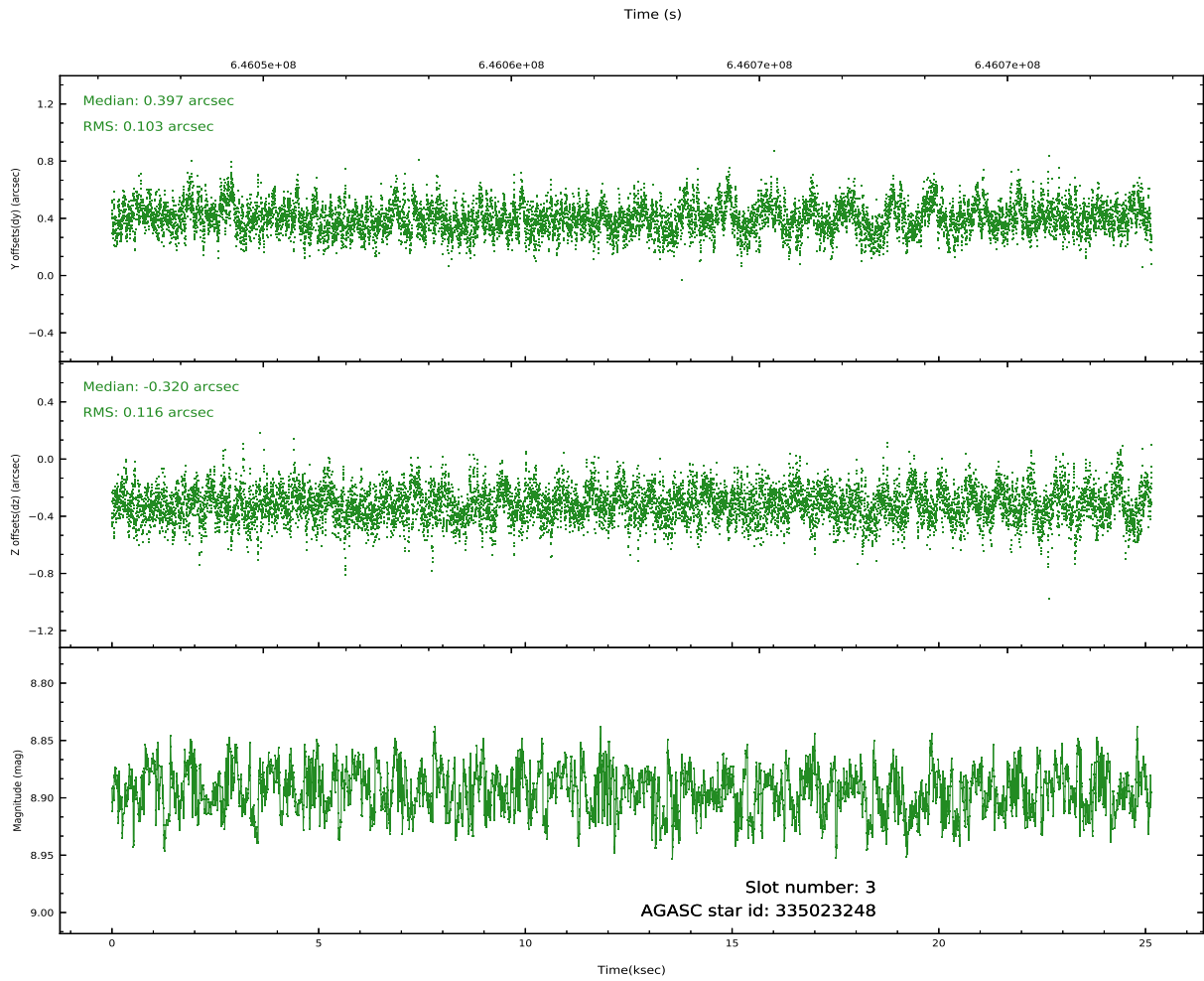
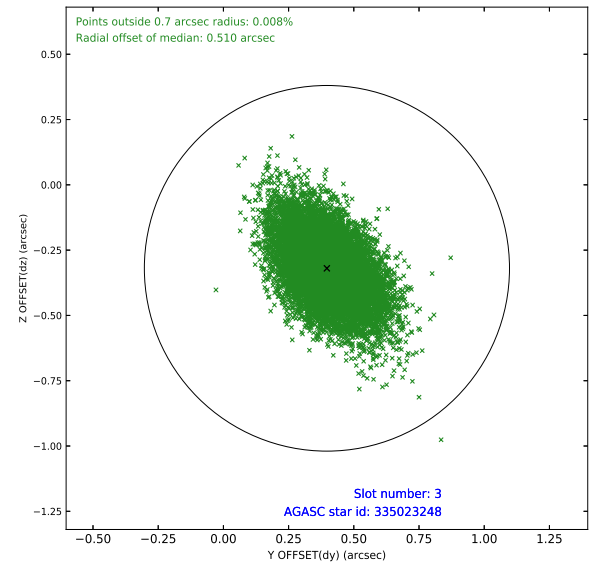
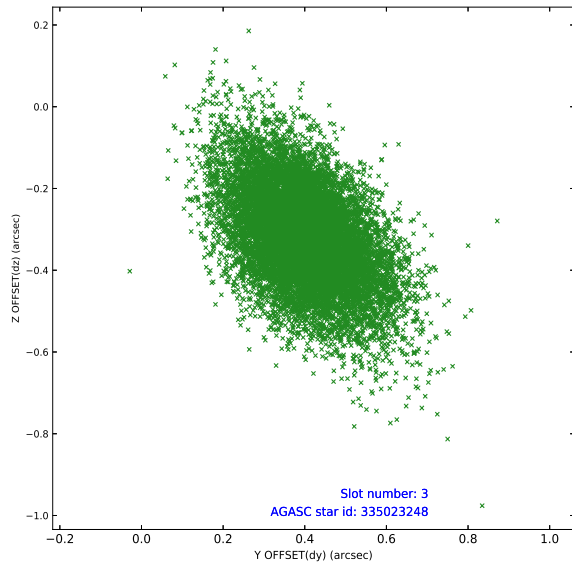


Slot Statistics

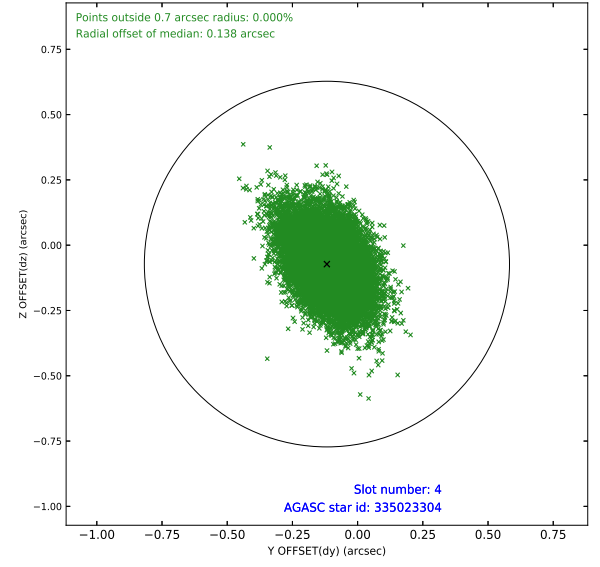
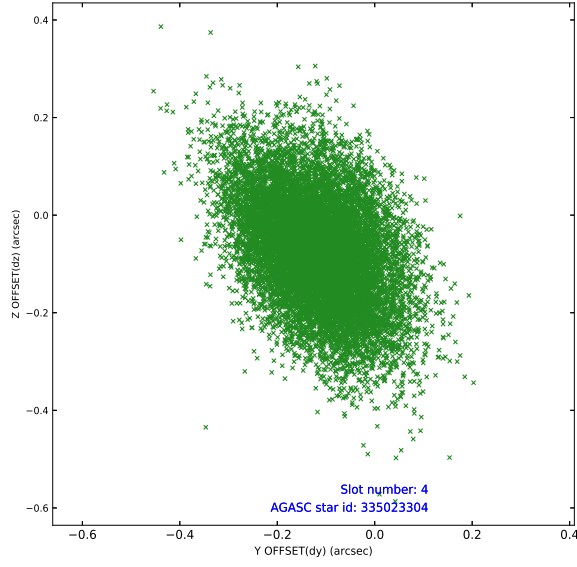
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.22	6133	1.000	0.182	-0.127	0.012	0.024	0.000000	0.000000	923.82	-844
1	FID		ACIS-I-5	7.21	6133	1.000	-0.301	0.153	0.009	0.015	0.000000	0.000000	-1824.56	1053
2	FID		ACIS-I-6	7.22	6133	1.000	0.027	0.045	0.011	0.018	0.000000	0.000000	389.27	1698
3	GUIDE	used	335023248	8.89	12249	1.000	0.397	-0.320	0.160	0.277	217.634832	34.944512	1944.42	-2178
4	GUIDE	used	335023304	8.38	12261	1.000	-0.118	-0.072	0.148	0.248	218.883608	34.686545	-587.40	663
5	GUIDE	used	335025040	9.83	12235	1.000	0.082	0.117	0.233	0.402	218.601670	34.305240	872.89	1336
6	GUIDE	used	335414336	8.91	12198	1.000	-0.181	0.232	0.158	0.266	218.979022	35.090910	-1631.18	-388
7	GUIDE	used	335152968	9.68	12247	1.000	-0.178	0.035	0.226	0.383	219.446087	34.867883	-2333.67	1043

2.4 Star Slots

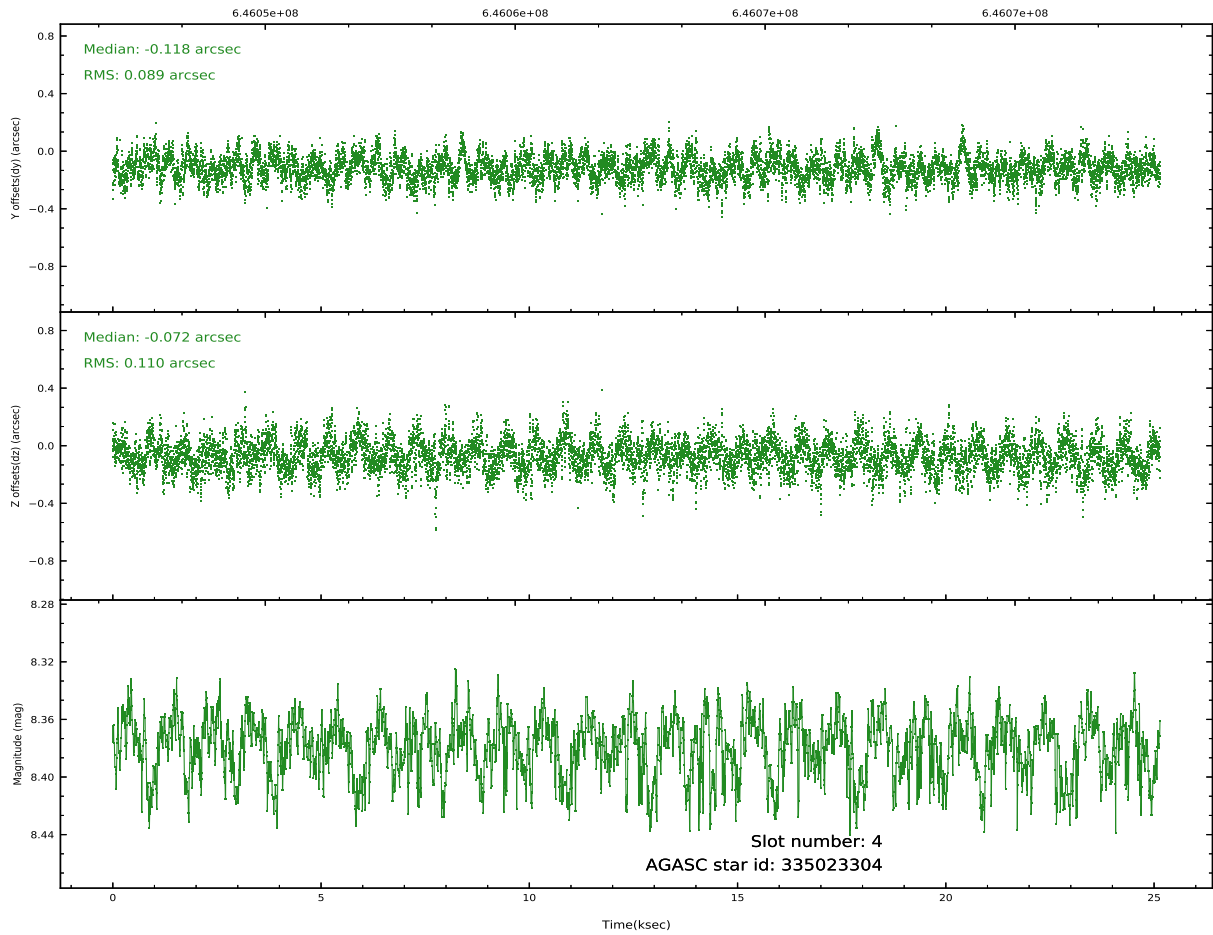
2.4.1 Slot 3



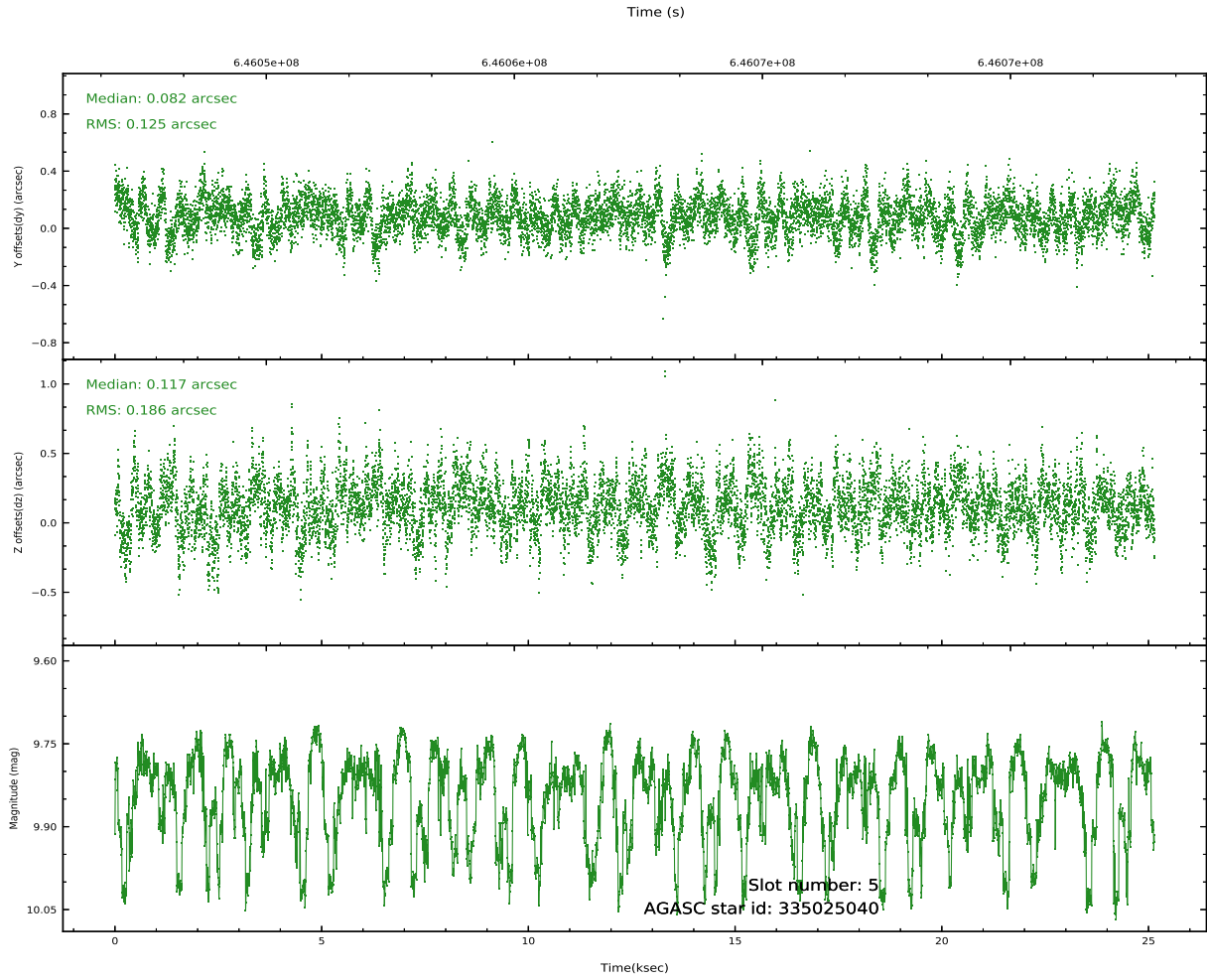
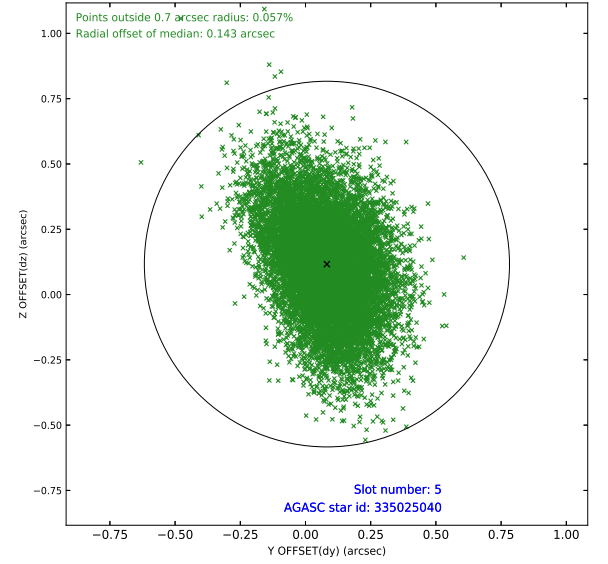
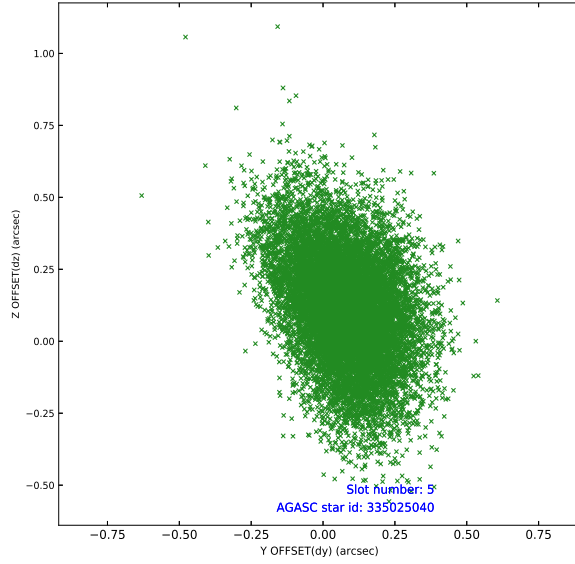
2.4.2 Slot 4



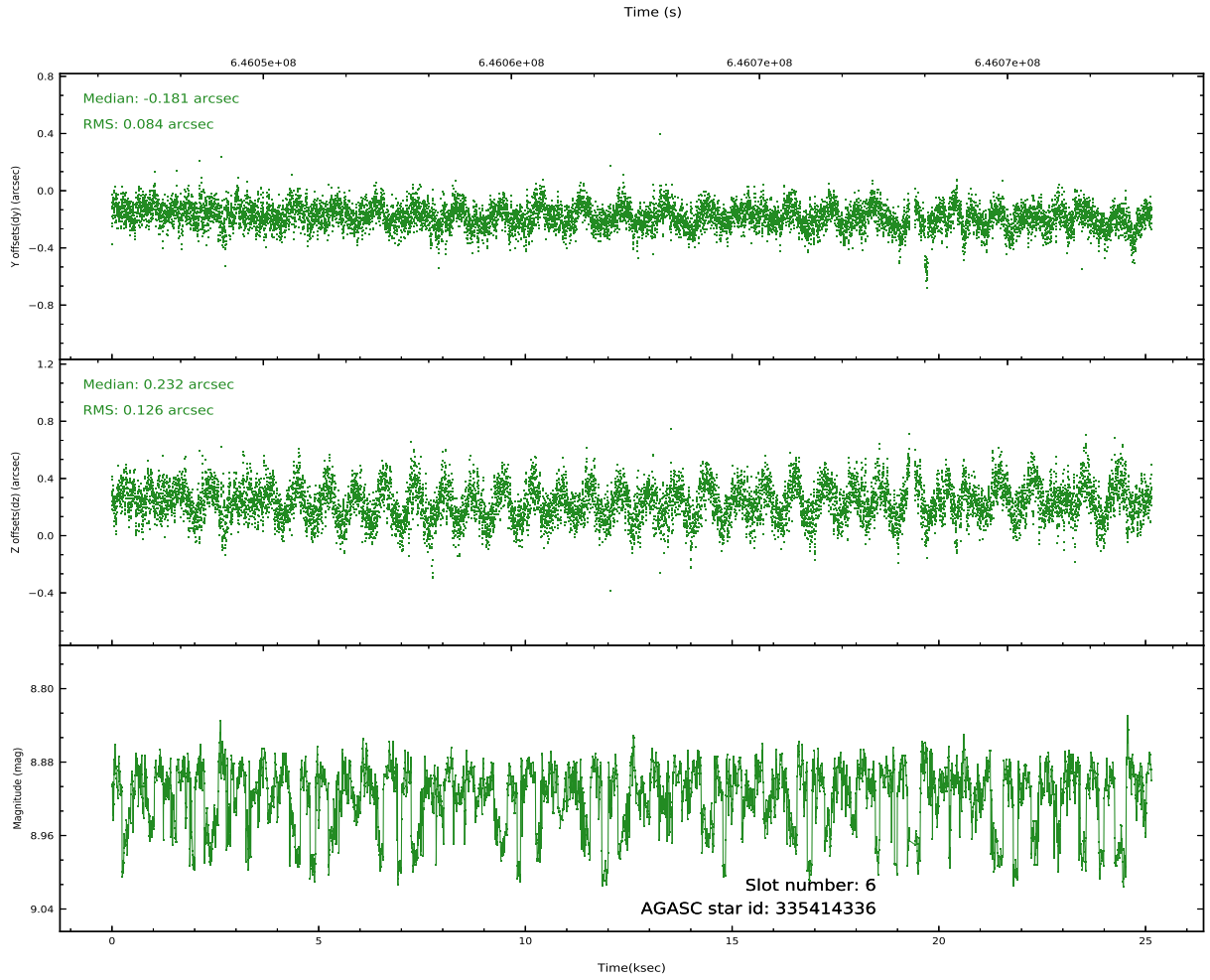
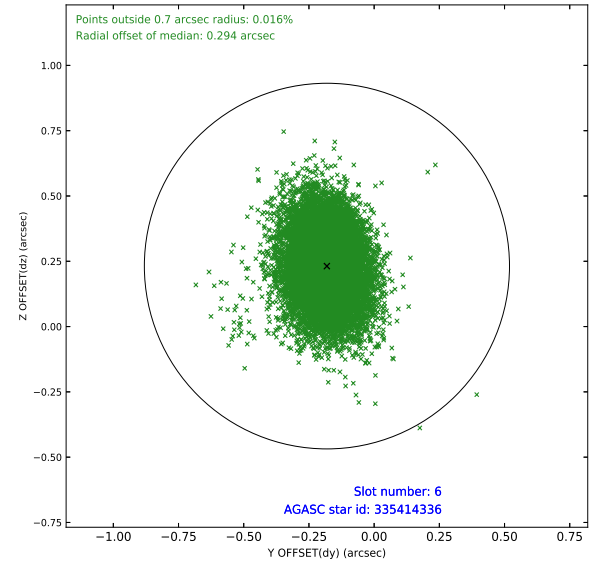
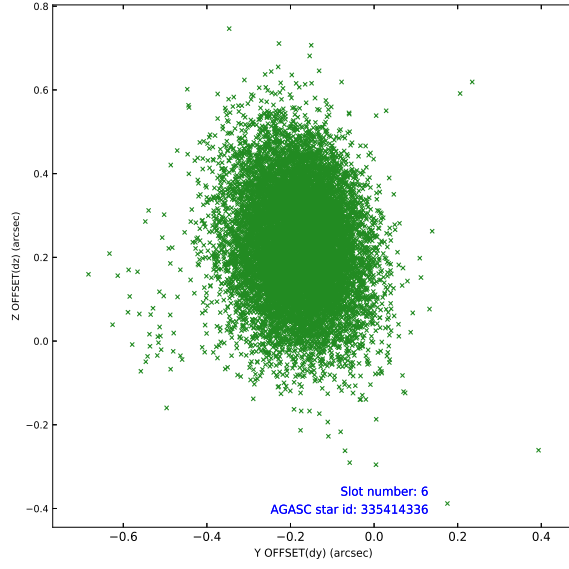
Time (s)



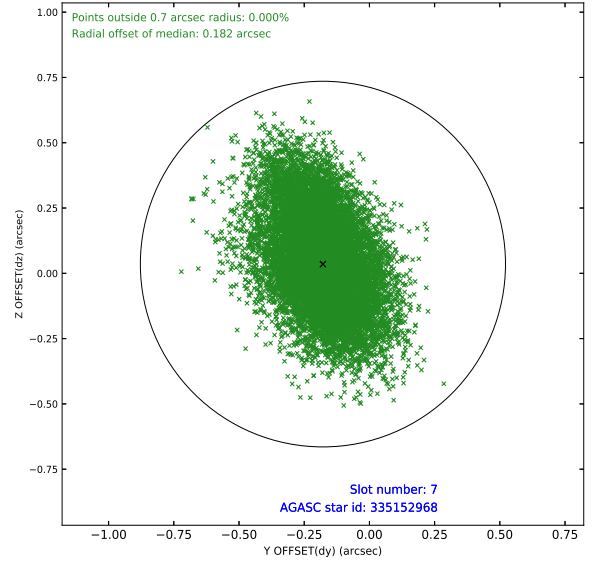
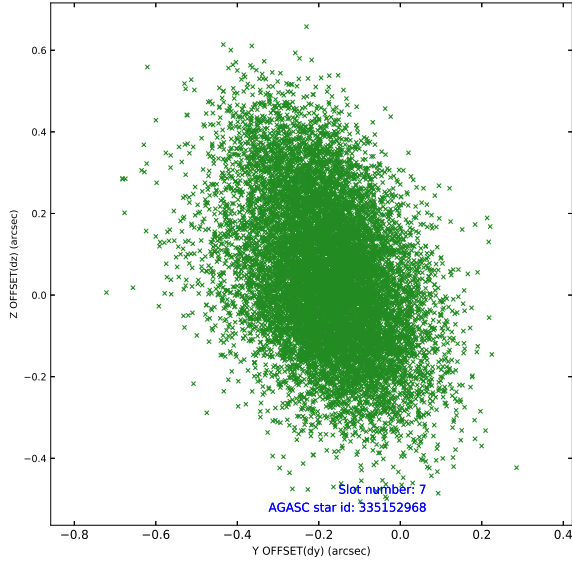
2.4.3 Slot 5



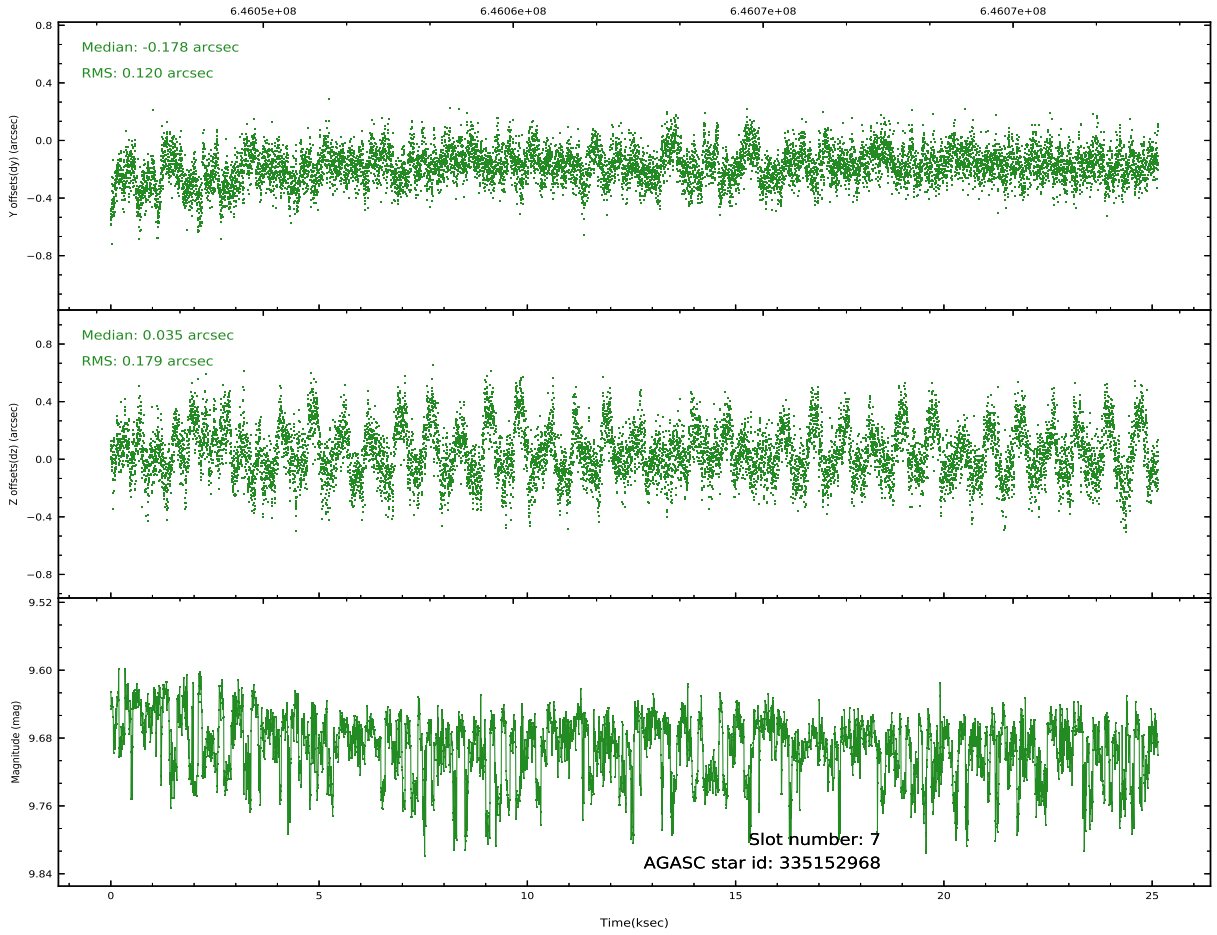
2.4.4 Slot 6



2.4.5 Slot 7

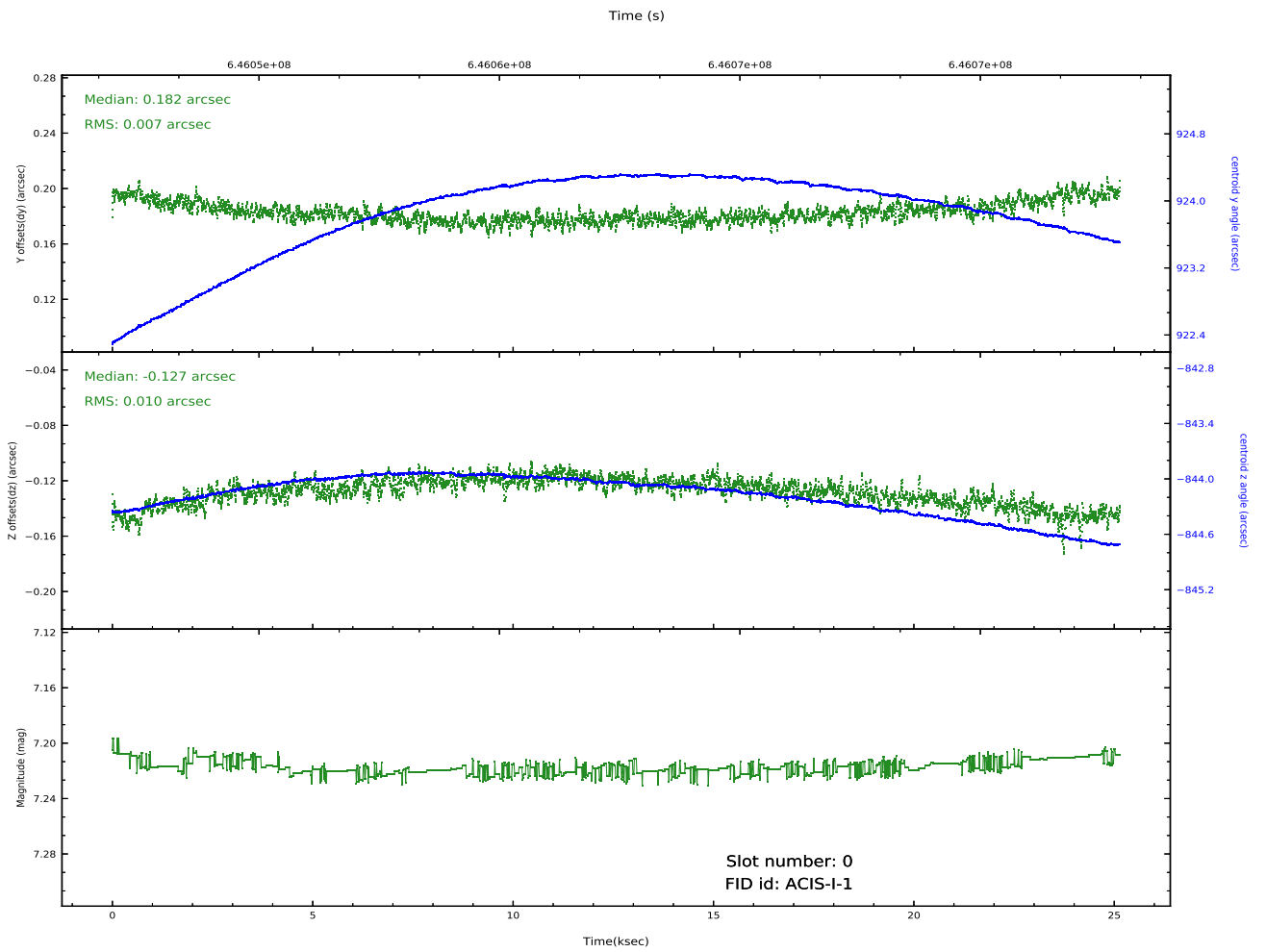
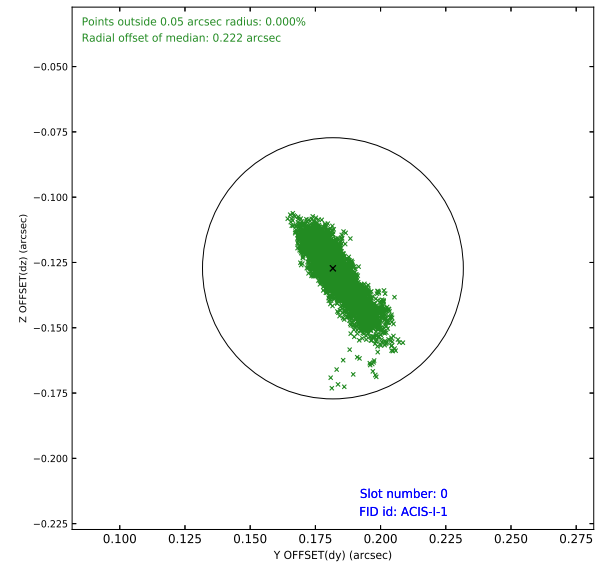
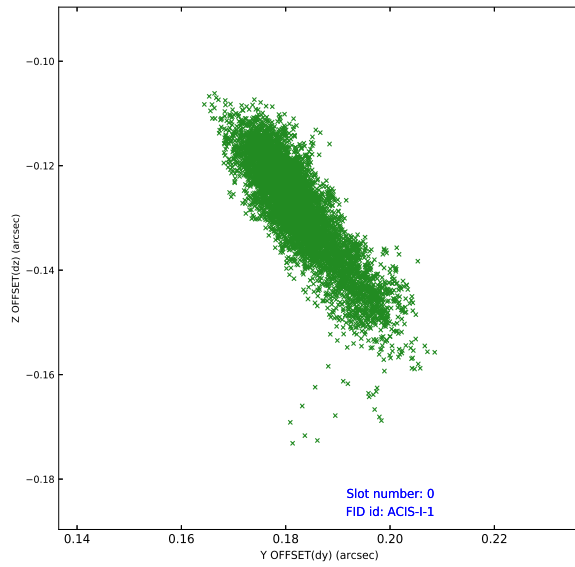


Time (s)

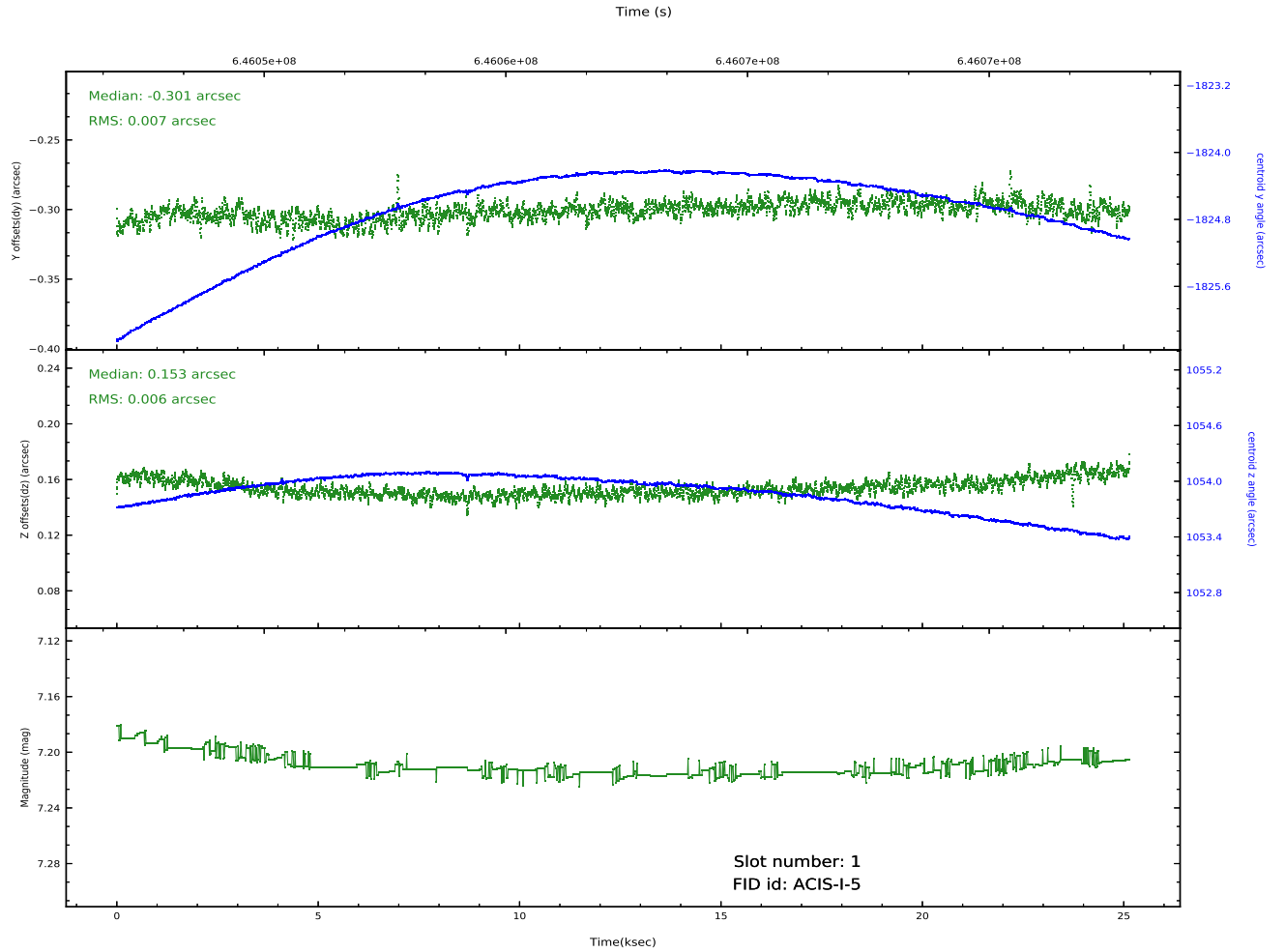
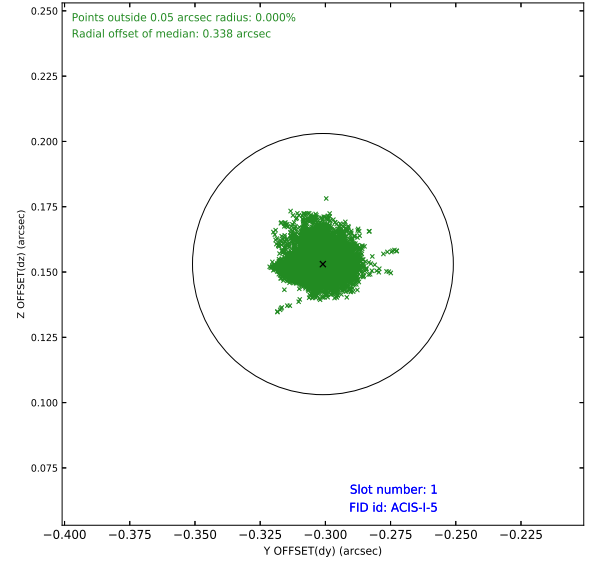
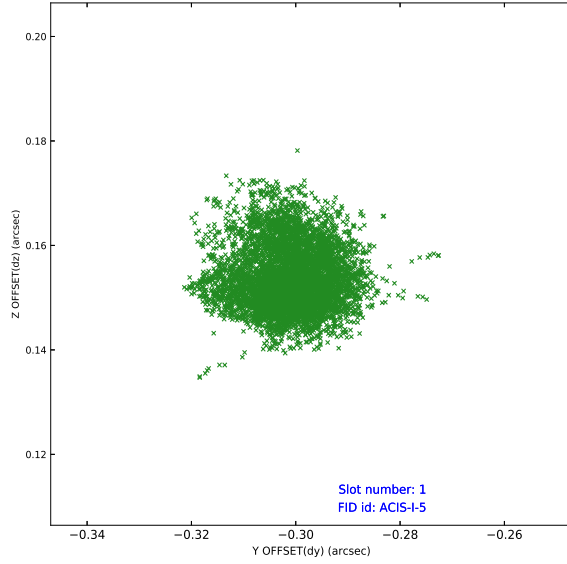


2.5 FID Slots

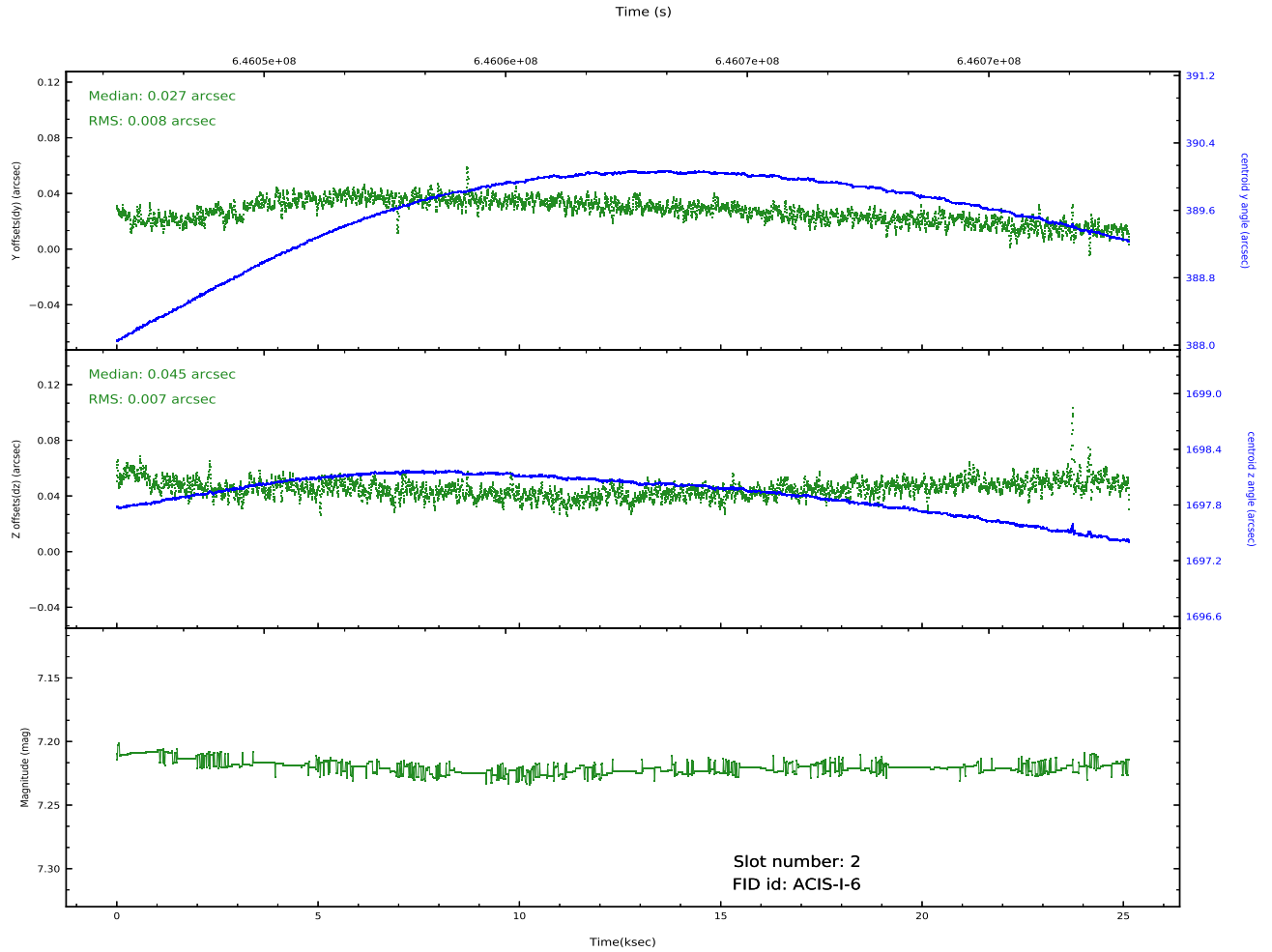
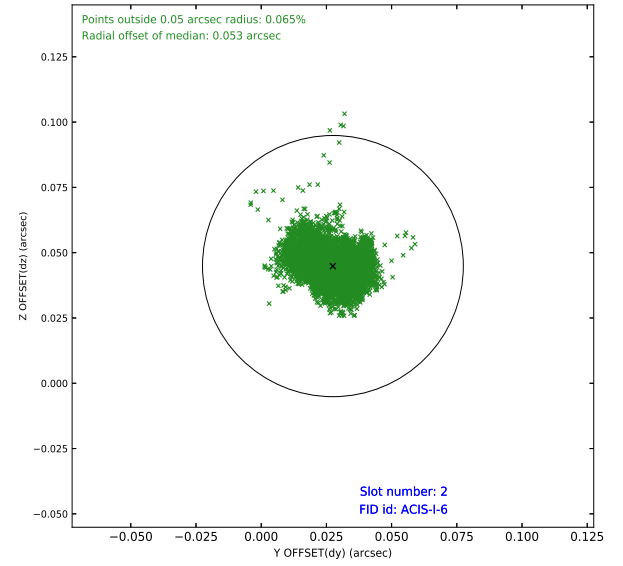
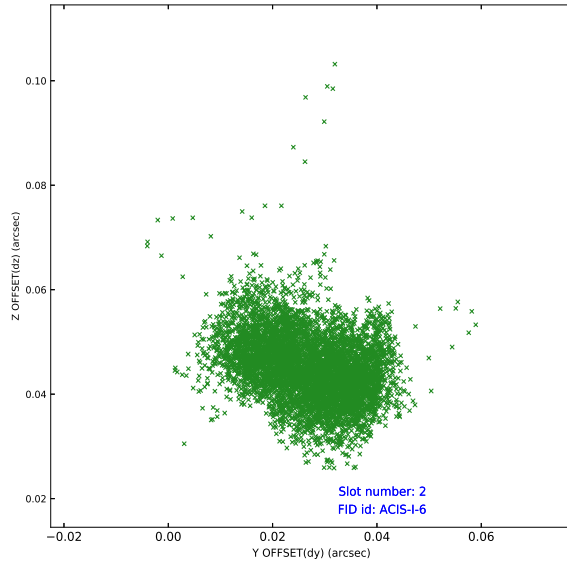
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	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	25.051059132338

A.2 Comments