

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19506 - L2 Version 2
Chandra X-Ray Center

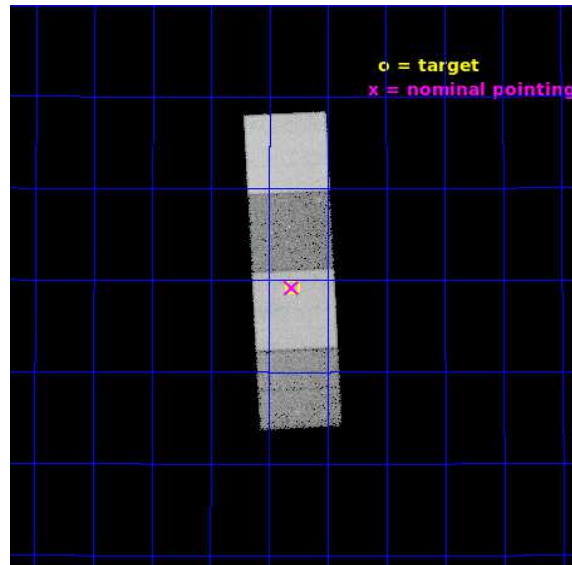
L2 Processing Date : Oct 24 2020

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1 Front

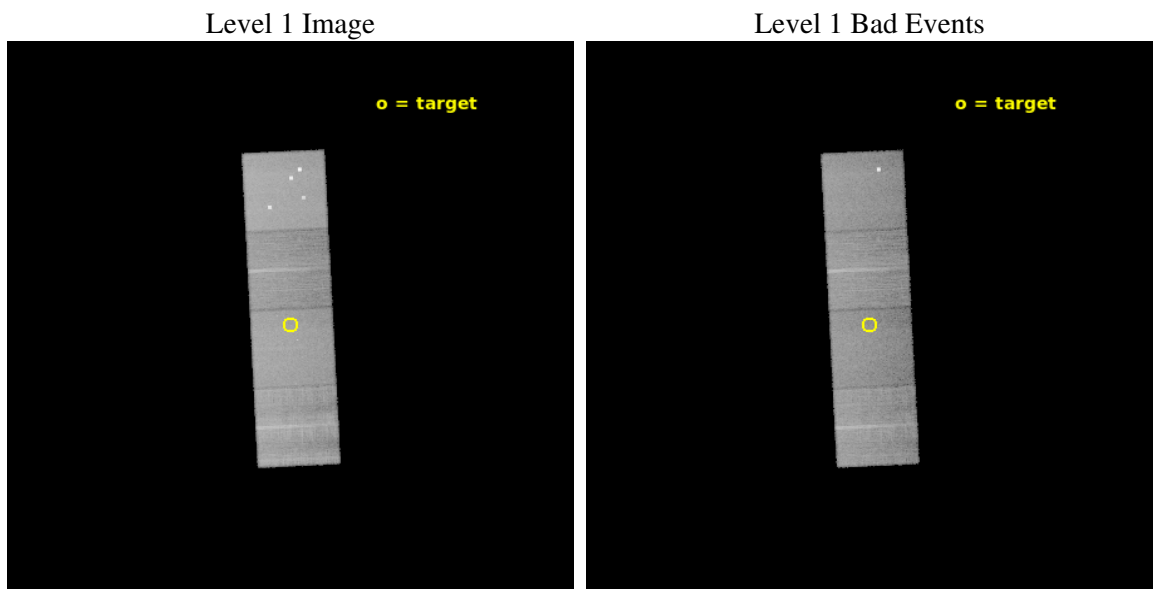
seq_num	703354	Sequence number
obs_id	19506	Observation id
title	WISE Discovery of the Largest Sample of Obscured Dual AGNs: A Chandra and NuSTAR Follow-up	Proposal title
observer	Shobita Satyapal	Principal investigator
object	J1045+3519	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	161.325	Observer's specified target RA [deg]
dec_targ	35.320333	Observer's specified target Dec [deg]
ra_nom	161.32656489404	Nominal RA [deg]
dec_nom	35.319751659249	Nominal Dec [deg]
roll_nom	87.153324914193	Nominal Roll [deg]
revision	2	Processing version of data
ontime	24065.300185204	Sum of GTIs [s]
livetime	23750.869321668	Livetime [s]
ontime5	24065.300185204	Sum of GTIs [s]
ontime6	24065.300185204	Sum of GTIs [s]
ontime7	24065.300185204	Sum of GTIs [s]
ontime8	24065.300185204	Sum of GTIs [s]
l2events	255958	Number of level 2 events



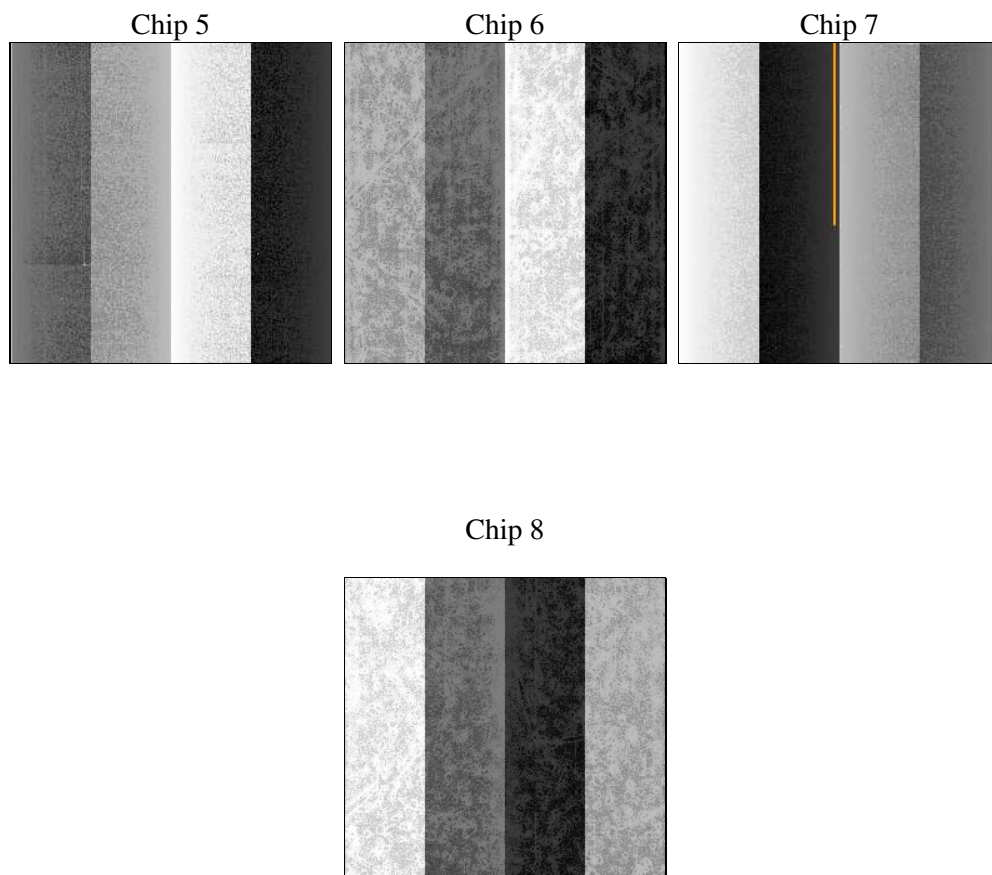
2 OBI

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	24065.300185204	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	24065.300185204	Sum of GTIs [s]
date	2020-10-24T05:02:55	Date and time of file creation	ontime6	24065.300185204	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	24065.300185204	Sum of GTIs [s]
			ontime8	24065.300185204	Sum of GTIs [s]
			l1events	907620	Number of level 1 events

2.1.4 Events

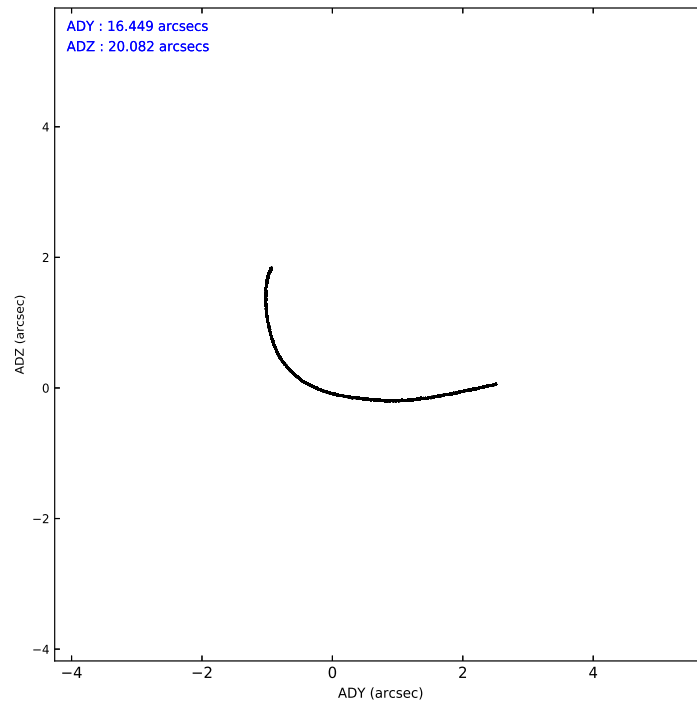
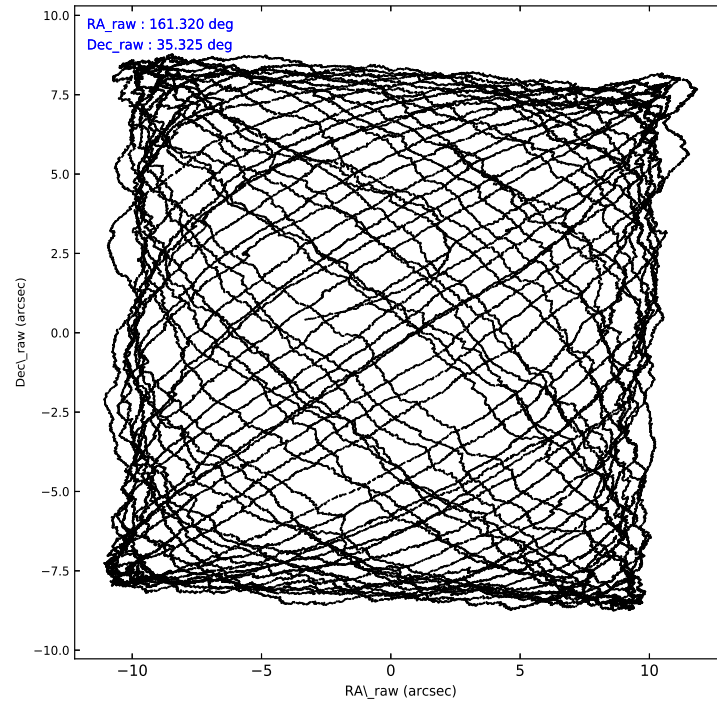
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	288998	170397	220109	228116
rejected events	145958	150959	123204	165127
rejected %	50%	88%	55%	72%

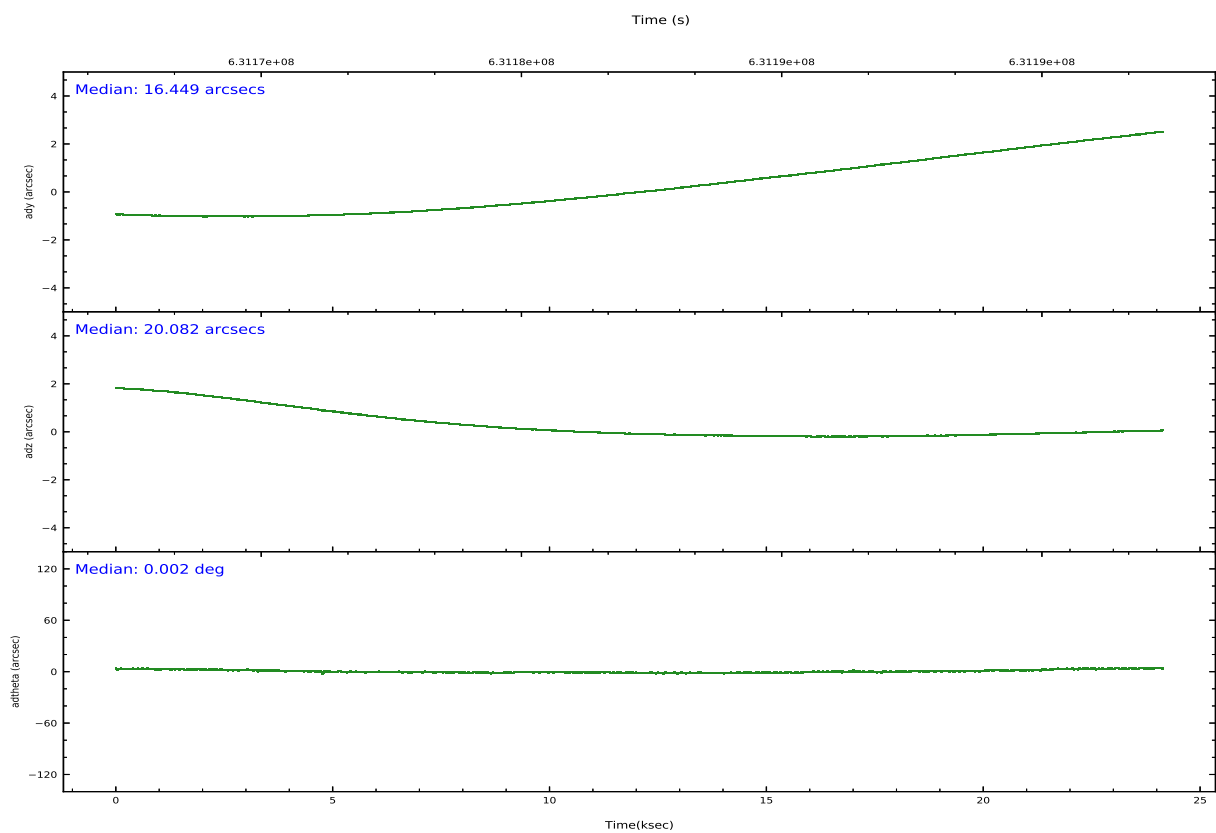
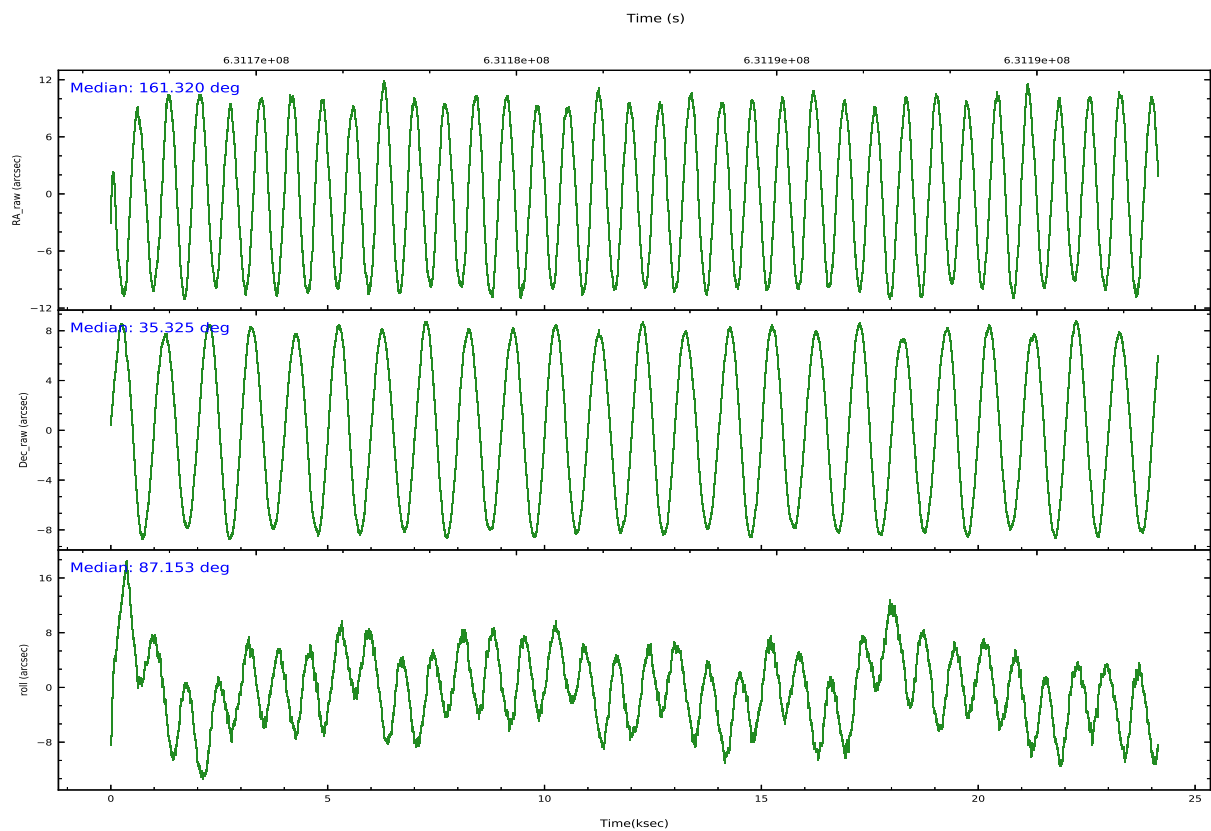
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	20443	6557	8385	17741
	7%	3%	3%	7%
grade 1 events	612	83	301	183
	0%	0%	0%	0%
grade 2 events	42477	4467	20528	15591
	14%	2%	9%	6%
grade 3 events	4234	2016	7877	6431
	1%	1%	3%	2%
grade 4 events	4126	1940	8056	5944
	1%	1%	3%	2%
grade 5 events	19606	8271	21992	12559
	6%	4%	9%	5%
grade 6 events	71778	4460	52070	17287
	24%	2%	23%	7%
grade 7 events	125722	142603	100900	152380
	43%	83%	45%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	161.335403	161.32656489404	CCD I2 on	N	N
[deg] Pointing Dec	35.300608	35.319751659249	CCD I3 on	N	N
[deg] Pointing Roll	86.993986	87.15332491419301	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O3	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O2	Y
[s] Observation start time (MET)	631170794.184000	631169733.35308	CCD S5 on	N	N
Observation start date	2018-01-01T05:12:05	2018-01-01T04:55:33	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	631194794.184000	631195472.1296	On-chip summing requested	N	N
Observation end date	2018-01-01T11:52:05	2018-01-01T12:04:32	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



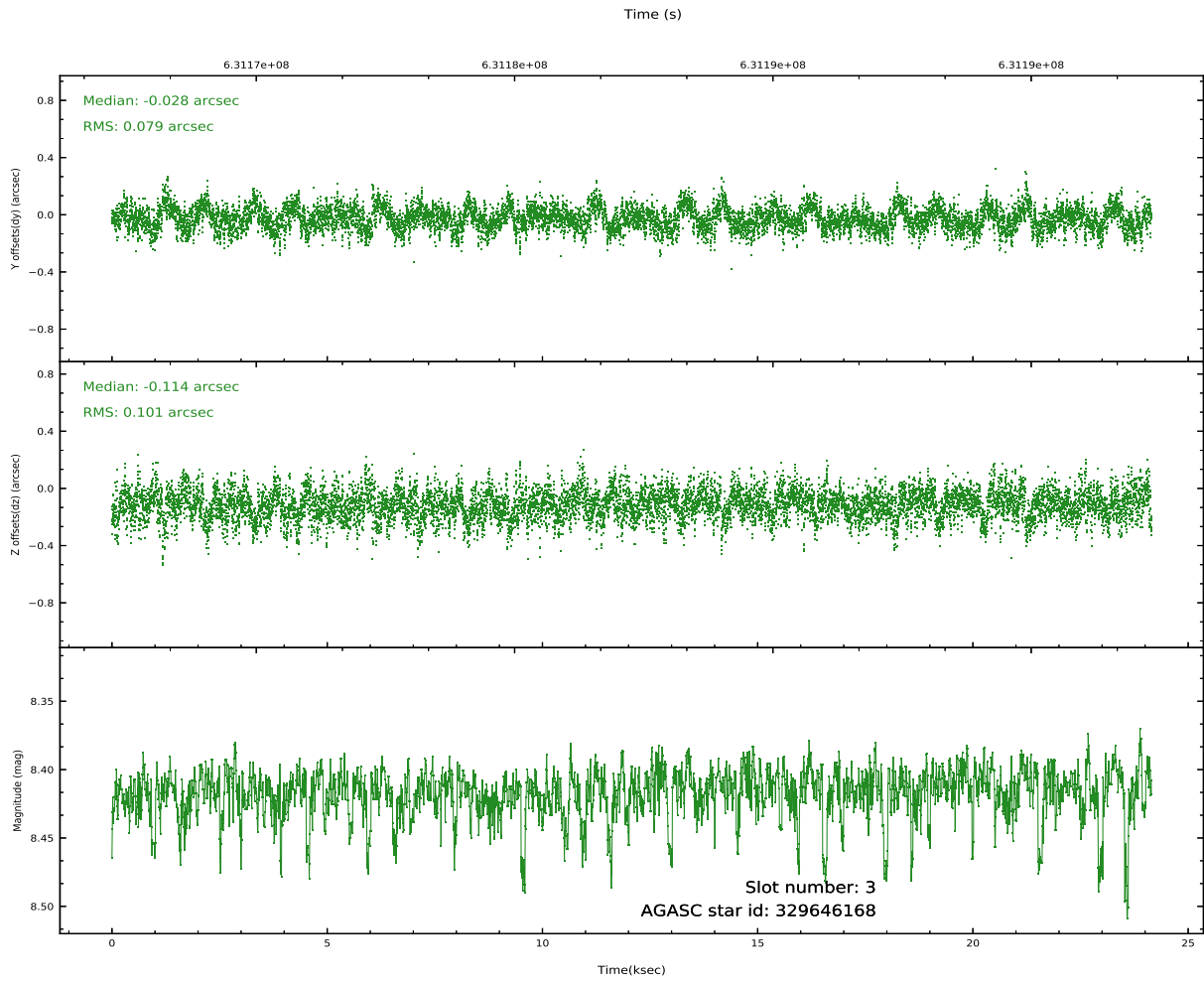
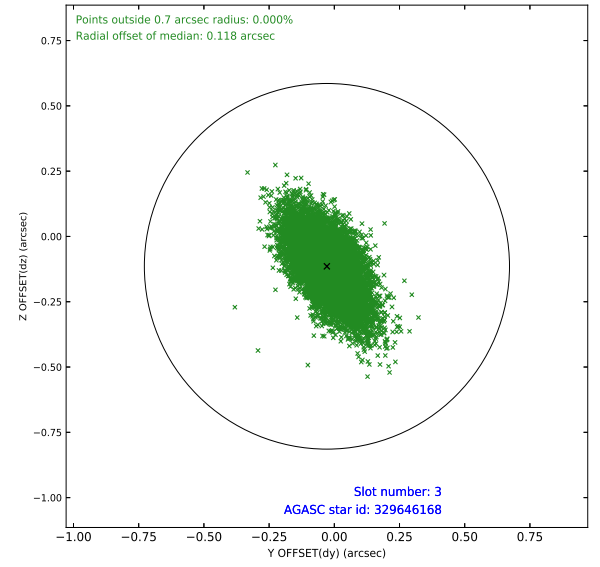
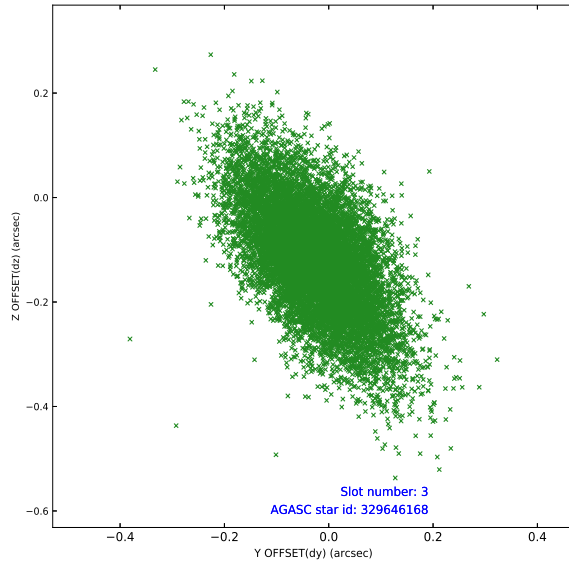


Slot Statistics

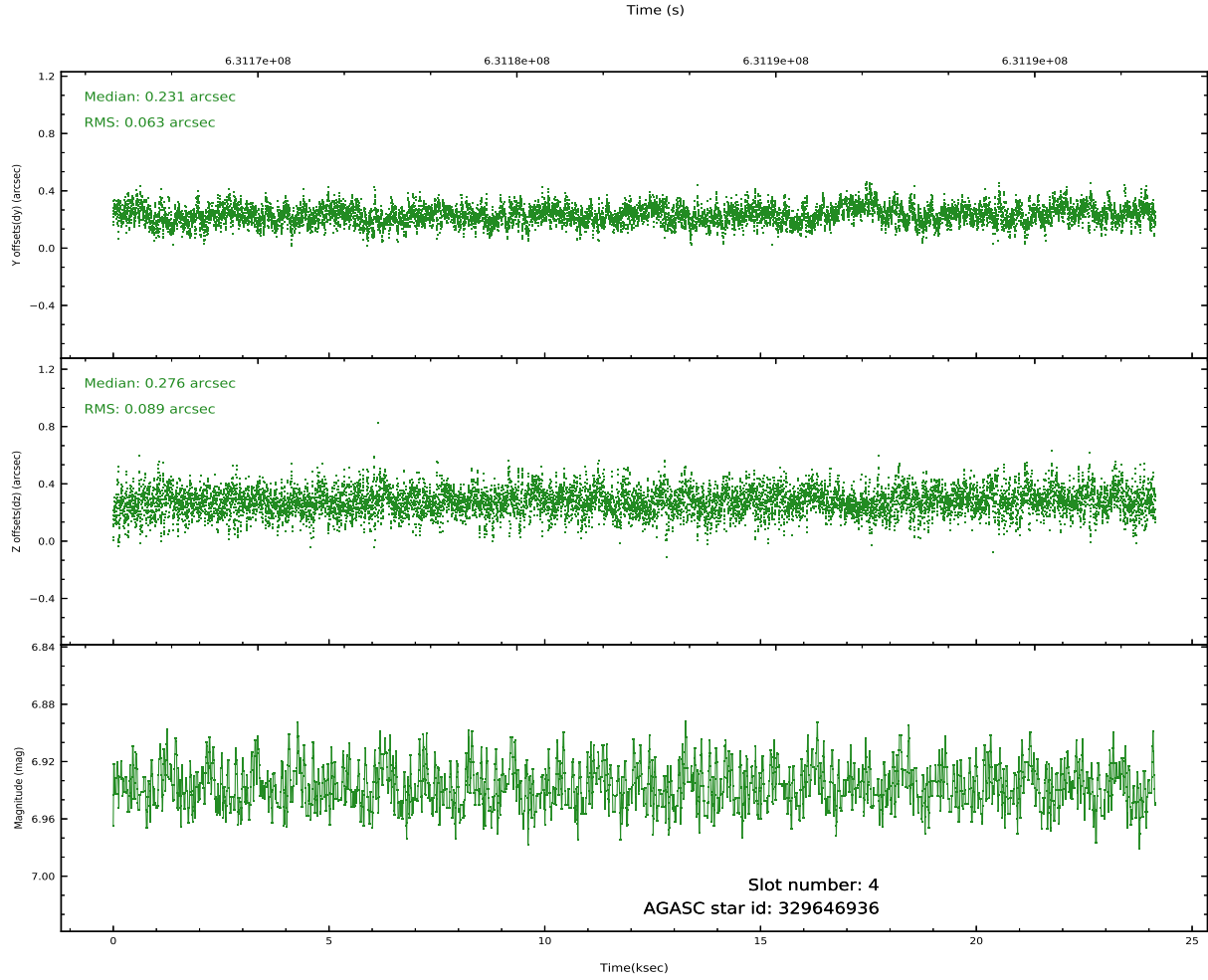
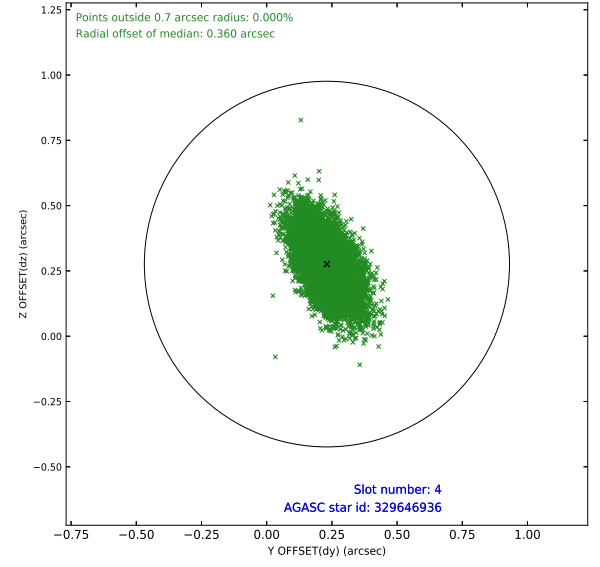
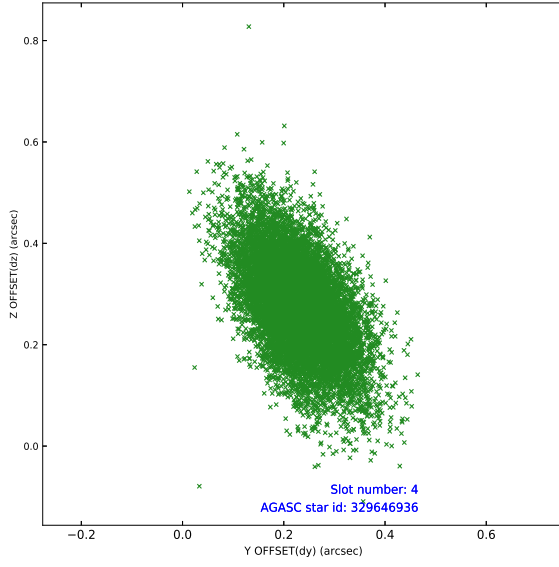
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.98	5889	1.000	0.084	-0.059	0.027	0.035	0.000000	0.000000	-769.81	-1741
1	FID		ACIS-S-4	7.09	5890	1.000	0.120	-0.026	0.017	0.027	0.000000	0.000000	2143.64	166
2	FID		ACIS-S-5	7.08	5890	1.000	-0.228	0.094	0.025	0.038	0.000000	0.000000	-1822.62	160
3	GUIDE	used	329646168	8.42	11774	1.000	-0.028	-0.114	0.130	0.236	160.795286	34.765157	-2004.20	1494
4	GUIDE	used	329646936	6.94	11780	1.000	0.231	0.276	0.111	0.201	161.684378	34.731236	-1990.60	-1137
5	GUIDE	used	330041184	8.41	11770	1.000	0.034	-0.102	0.122	0.219	160.778779	35.165233	-568.63	1611
6	GUIDE	used	330045336	9.05	11759	1.000	-0.221	-0.217	0.156	0.265	160.957798	35.879965	2026.80	1209
7	GUIDE	used	330046440	9.07	11767	1.000	-0.018	0.162	0.152	0.256	161.562560	35.639895	1256.79	-598

2.4 Star Slots

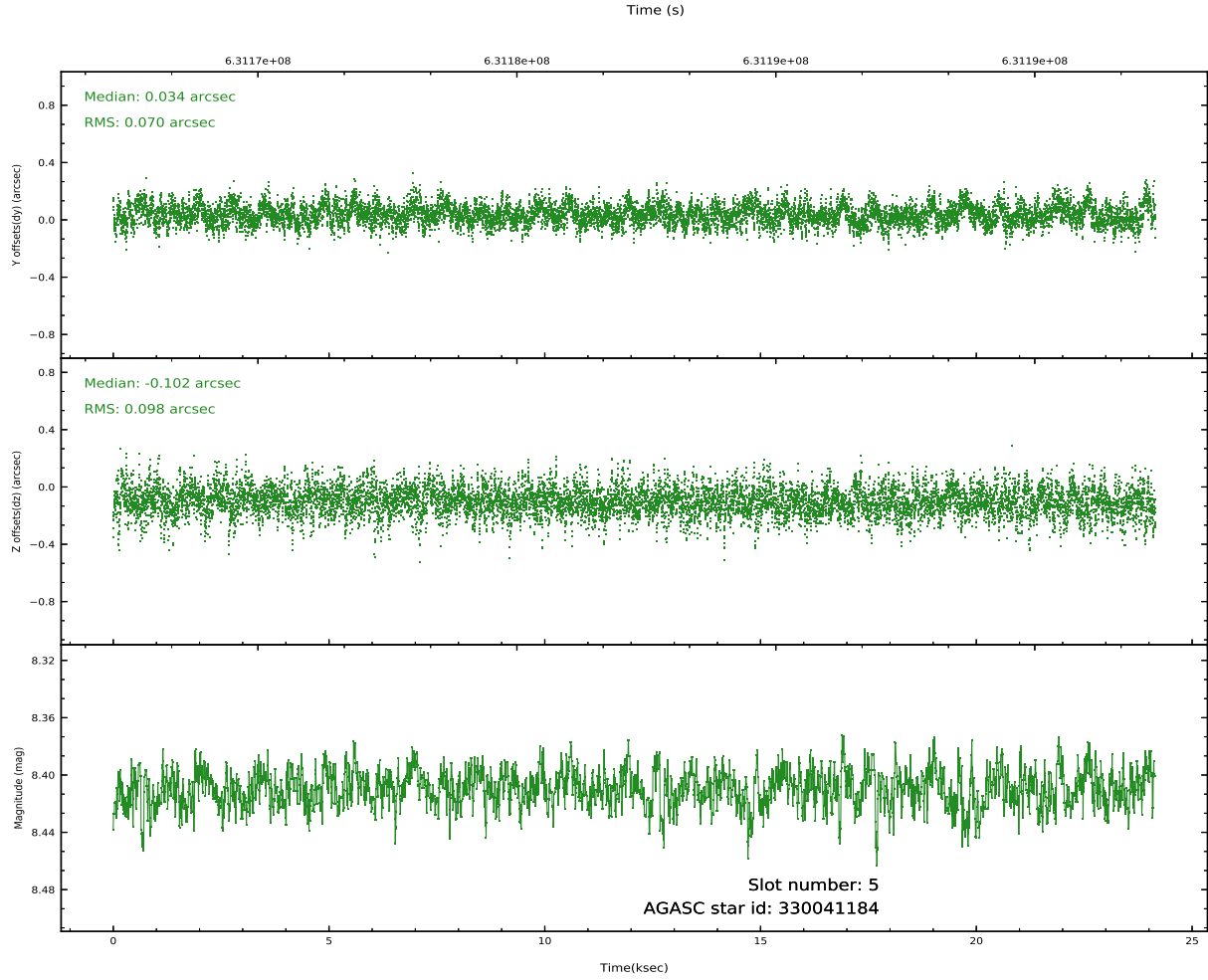
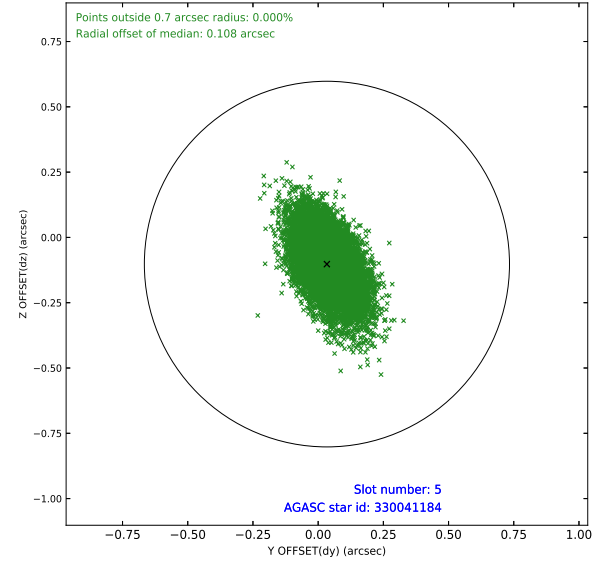
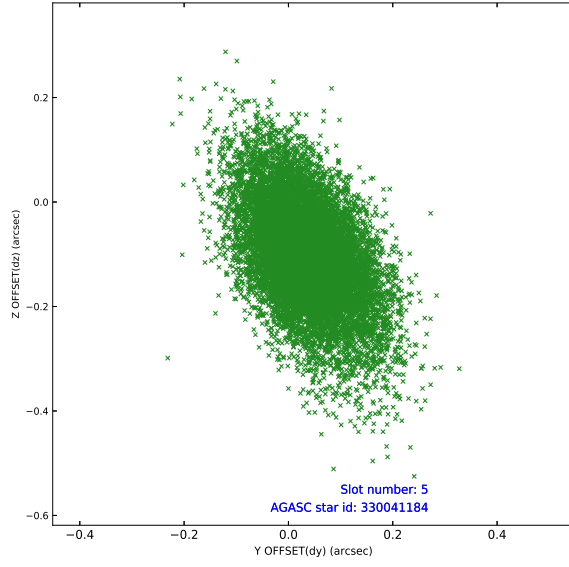
2.4.1 Slot 3



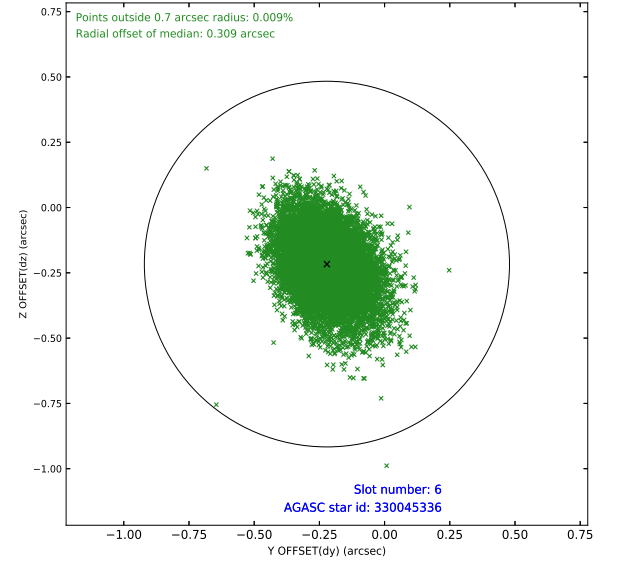
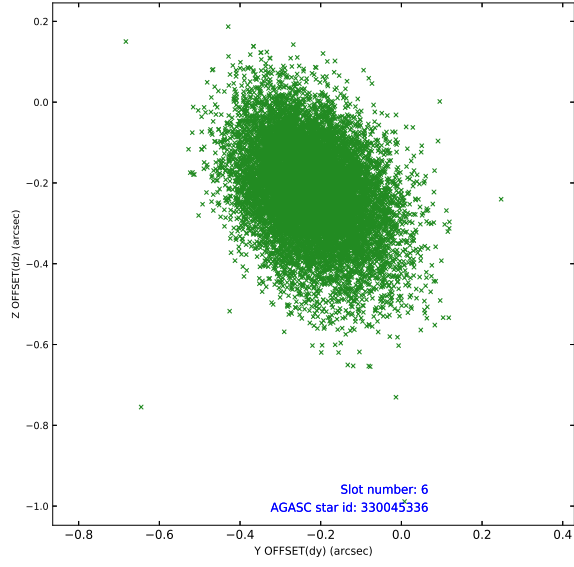
2.4.2 Slot 4



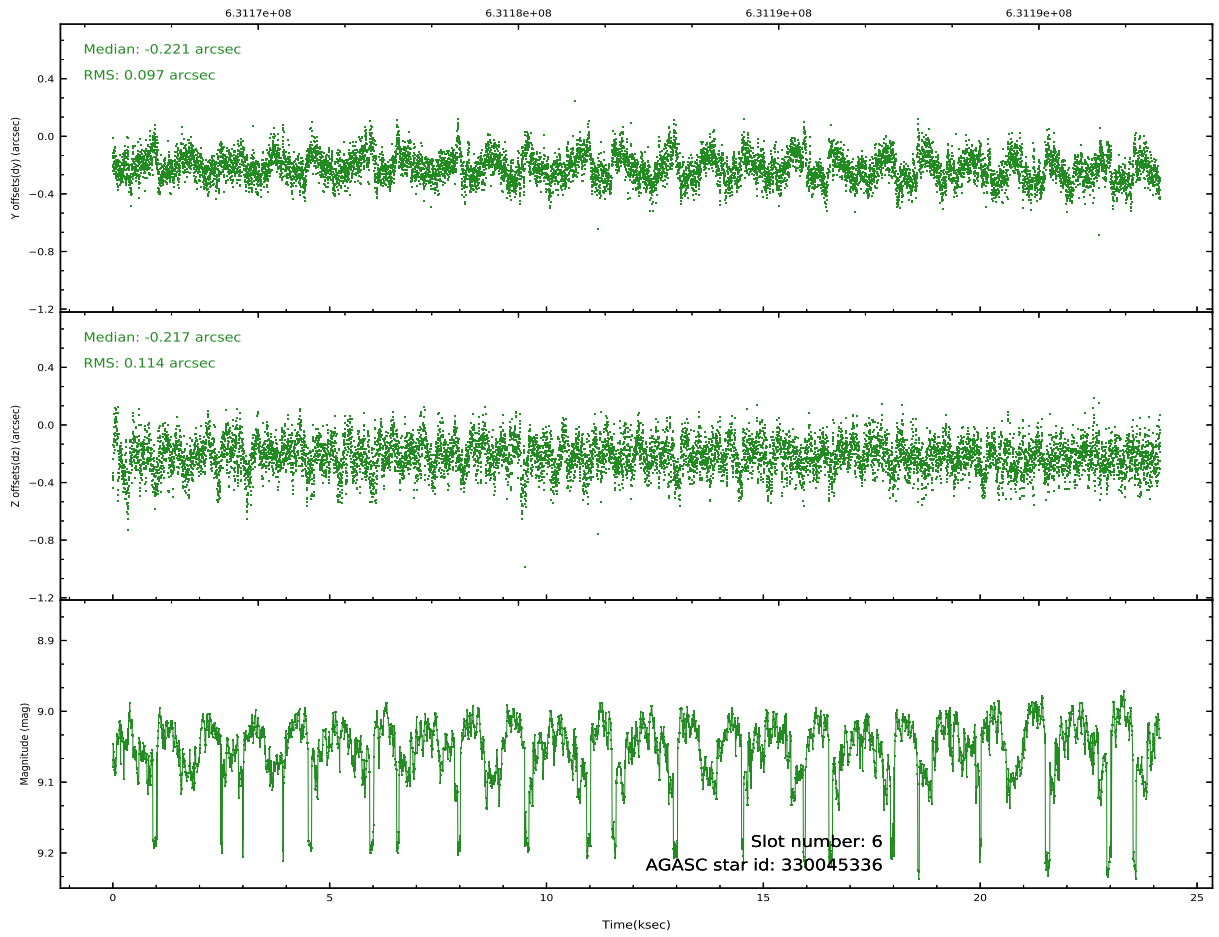
2.4.3 Slot 5



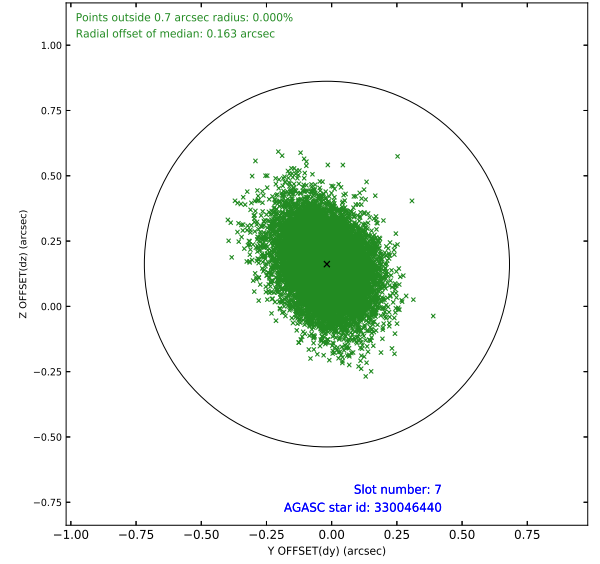
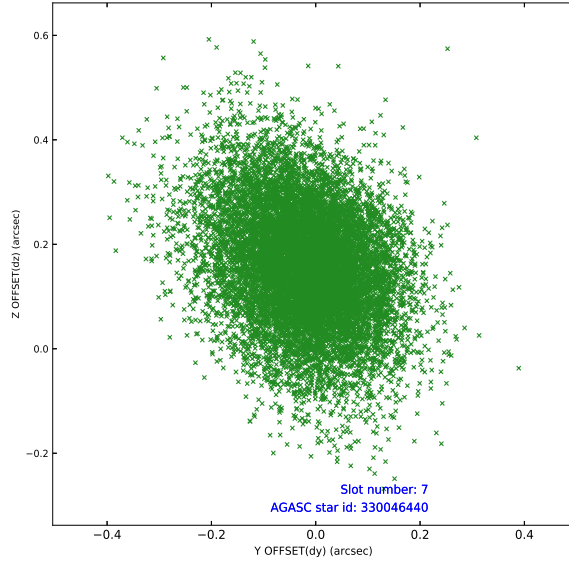
2.4.4 Slot 6



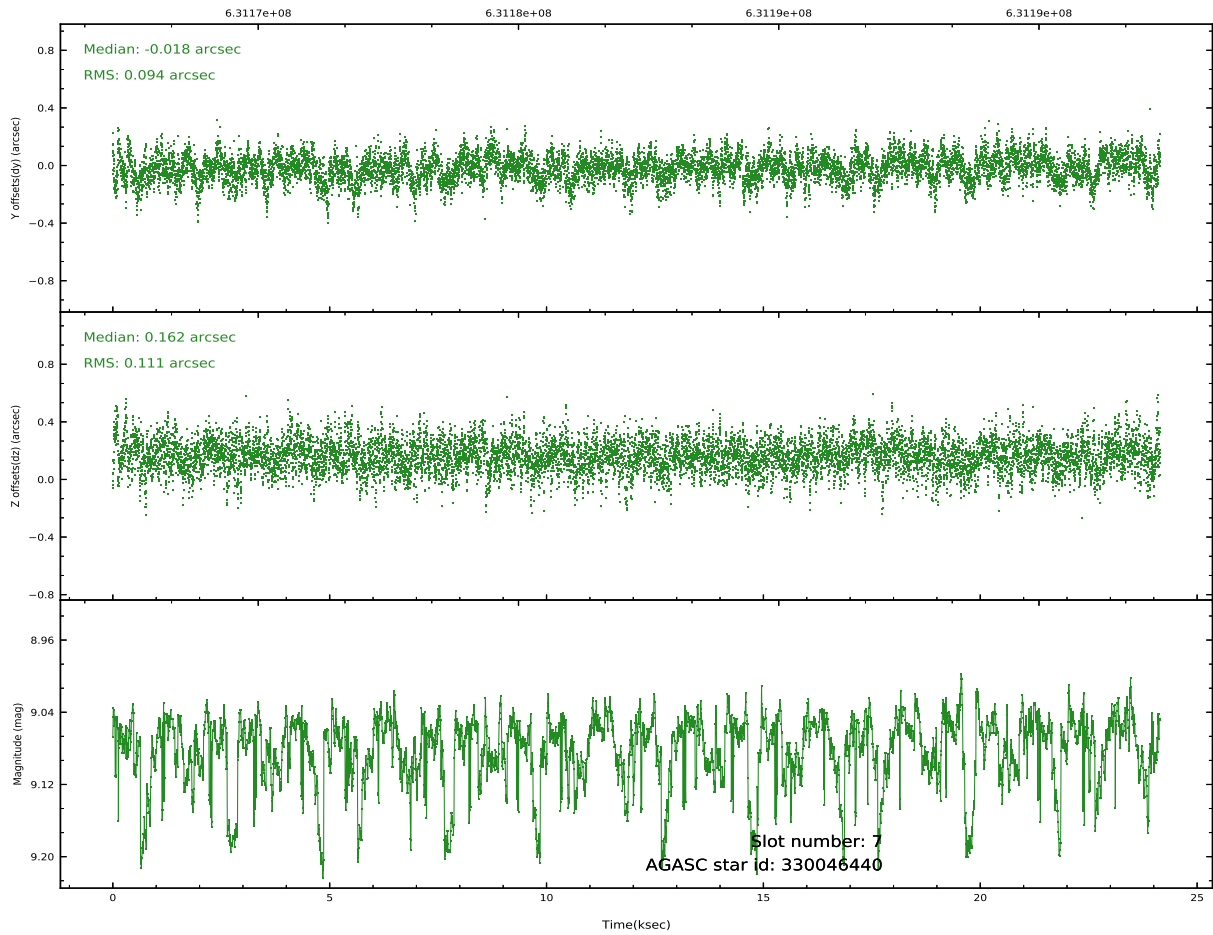
Time (s)



2.4.5 Slot 7

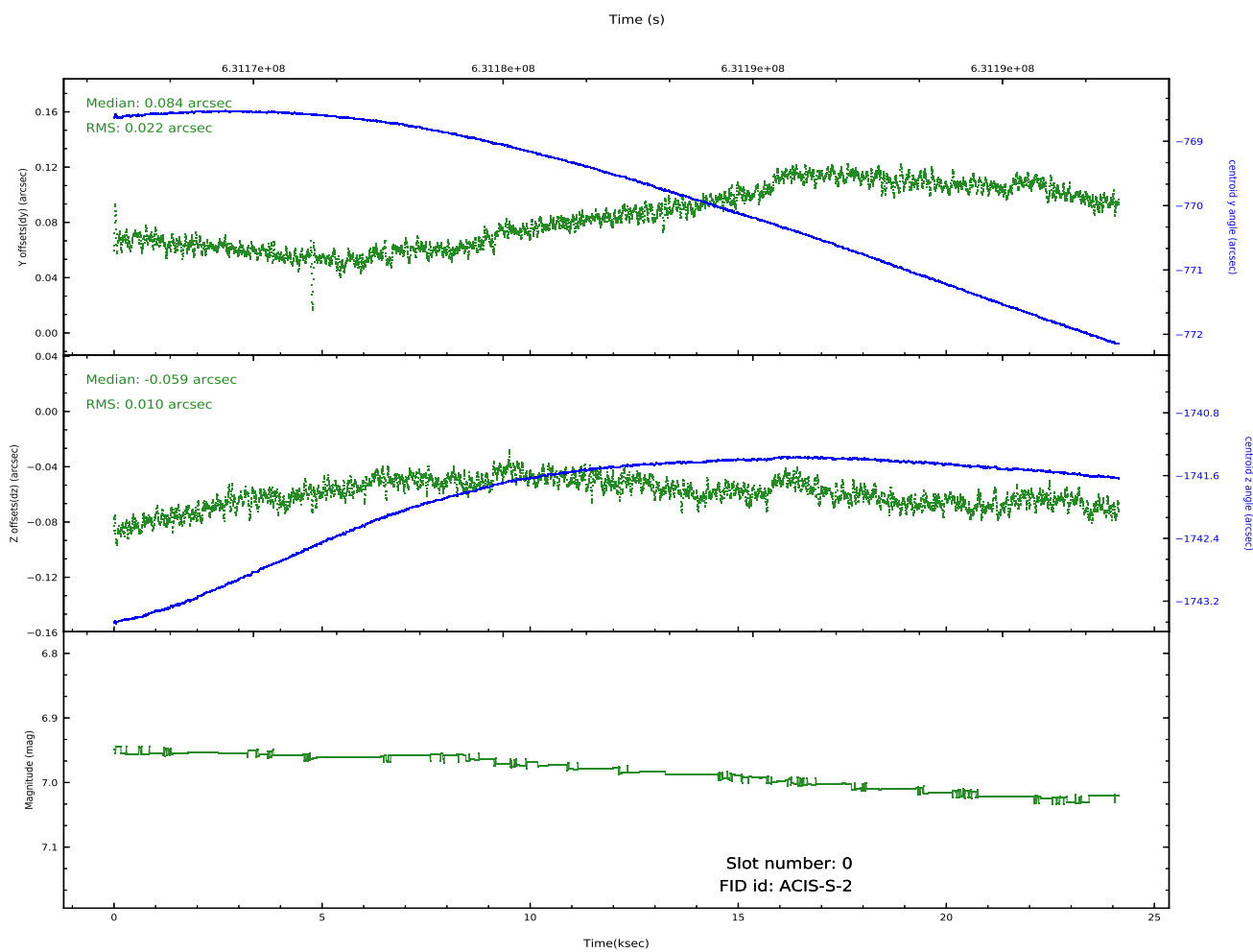
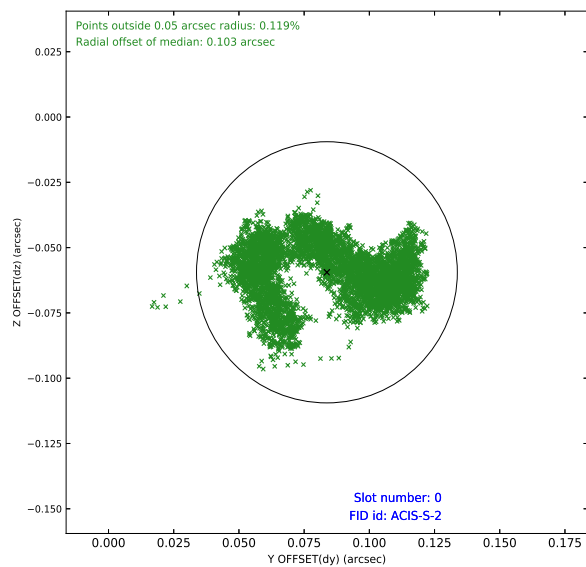
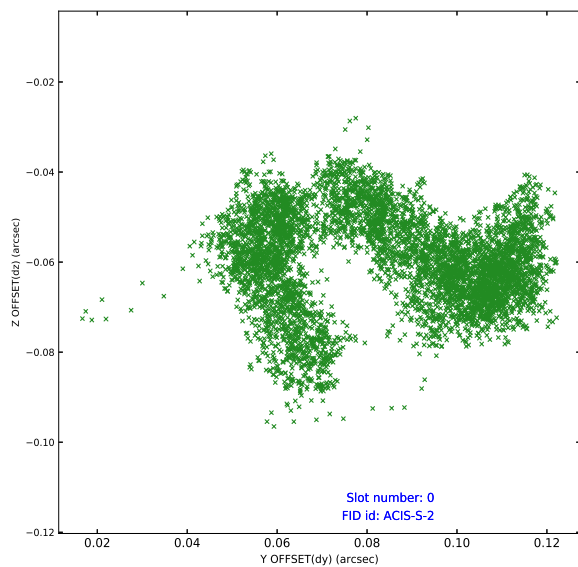


Time (s)

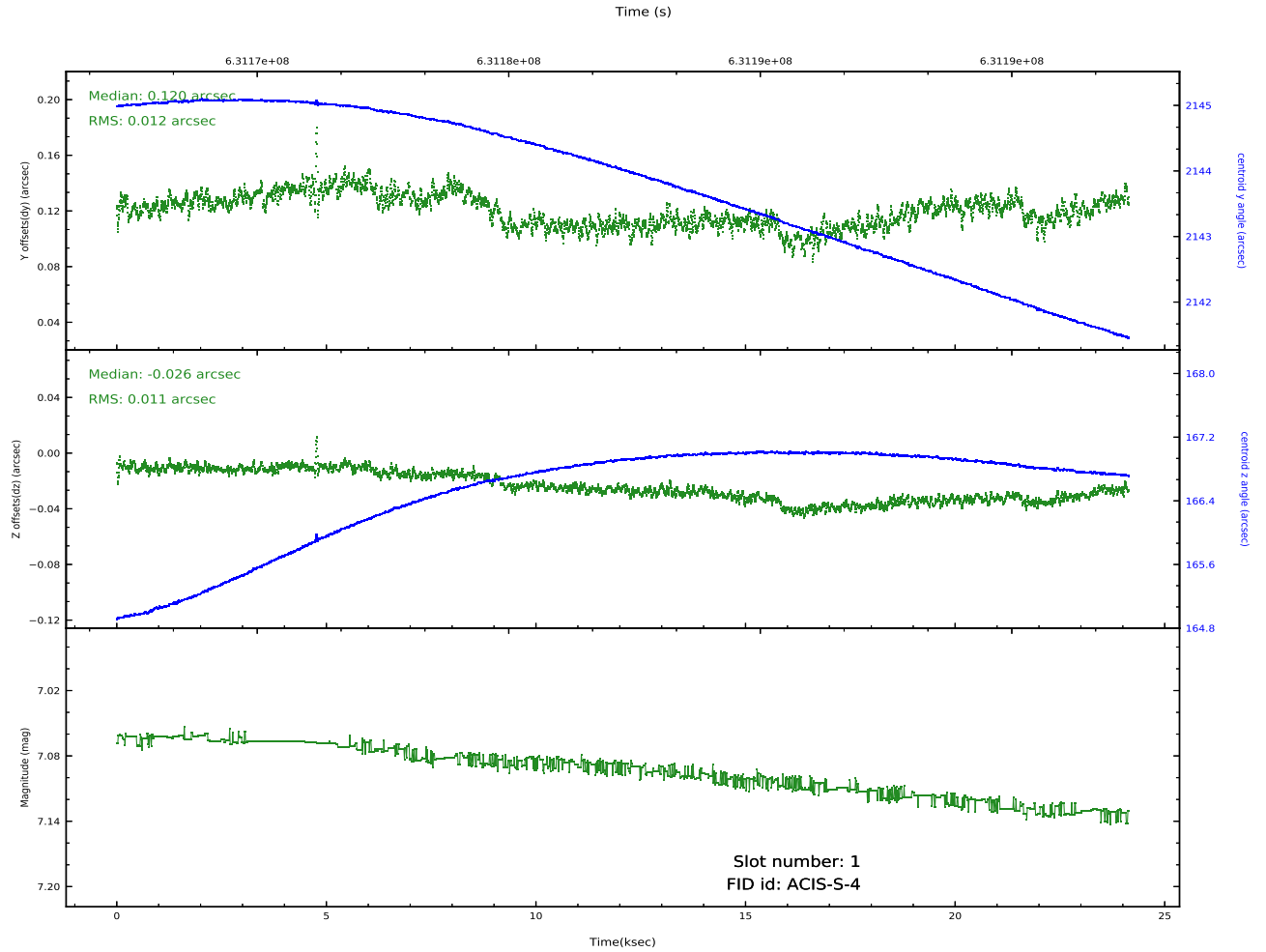
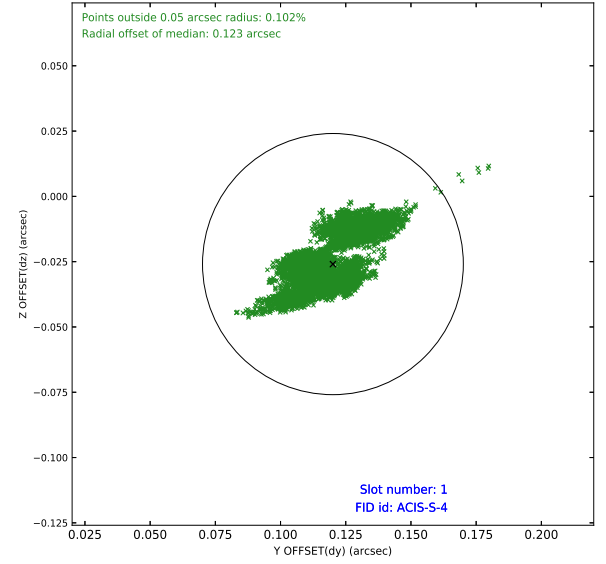
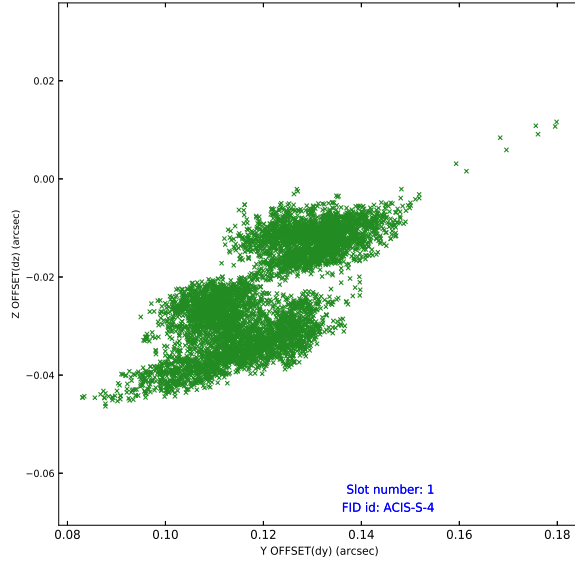


2.5 FID Slots

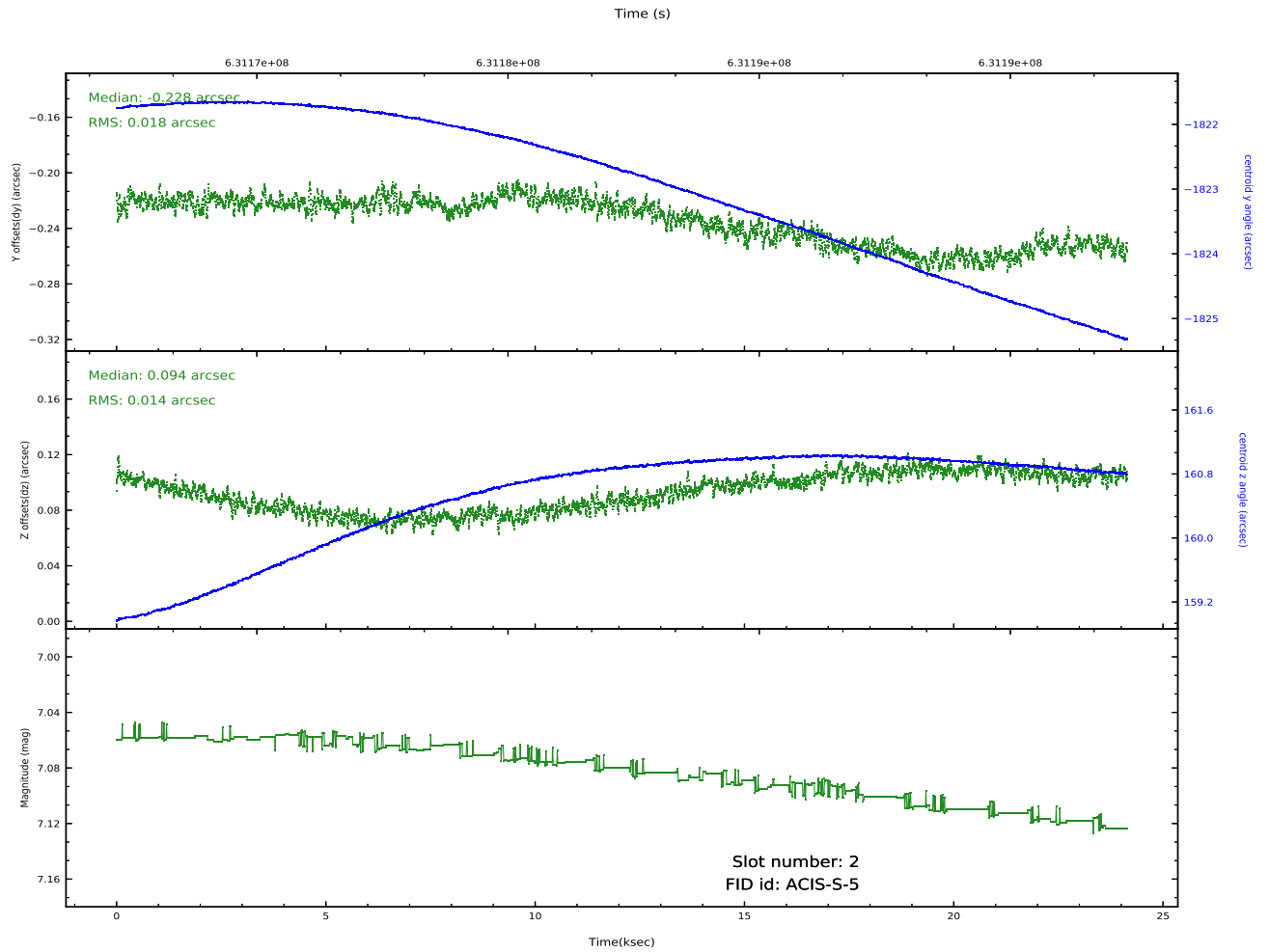
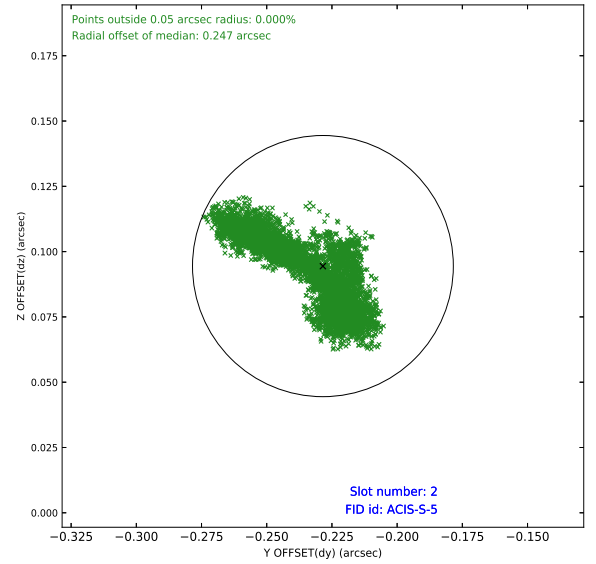
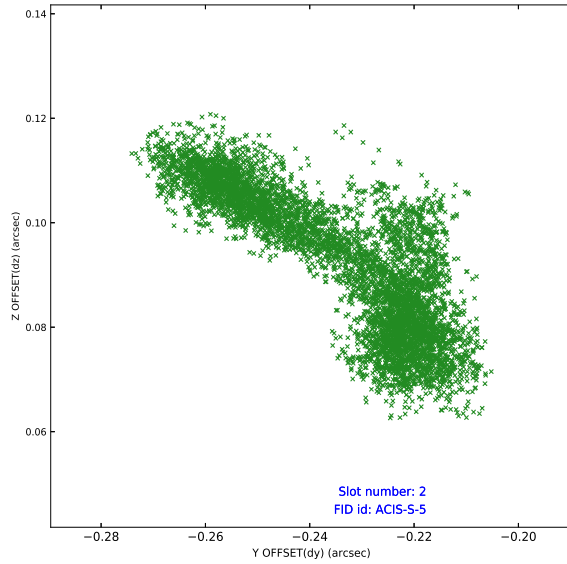
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.065300185204

A.2 Comments

Joint proposal with NuSTAR.