

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4646 - L2 Version 5
Chandra X-Ray Center

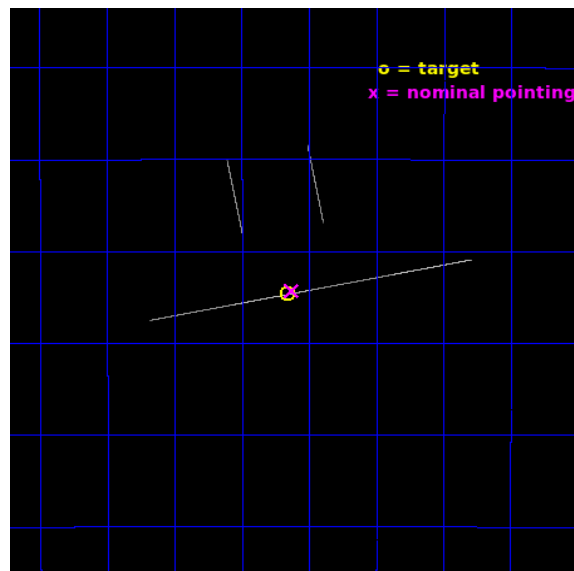
L2 Processing Date : Sep 26 2020

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1 Front

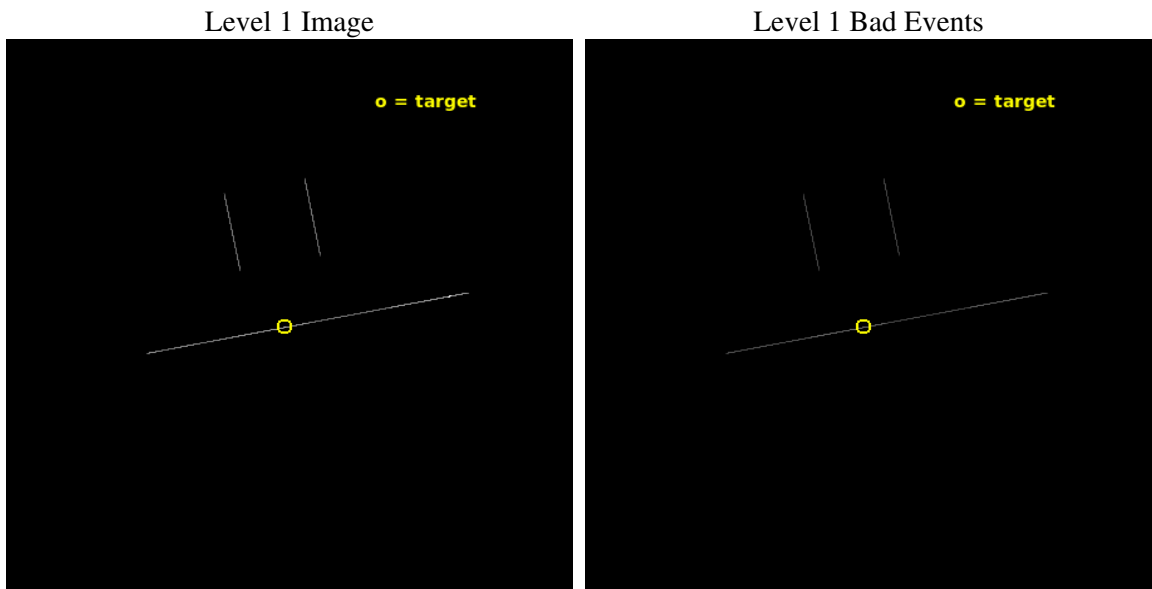
seq_num	500465	Sequence number
obs_id	4646	Observation id
title	ToO Observations of Soft Gamma Repeaters	Proposal title
observer	Dr. Peter Woods	Principal investigator
object	SGR 1806-20	Source name
ra_targ	272.16375	Observer's specified target RA [deg]
dec_targ	-20.410972	Observer's specified target Dec [deg]
ra_nom	272.15678968281	Nominal RA [deg]
dec_nom	-20.405222816241	Nominal Dec [deg]
roll_nom	168.85620202288	Nominal Roll [deg]
revision	5	Processing version of data
ontime	20181.75	Sum of GTIs [s]
livetime	20102.915039062	Livetime [s]
ontime2	20181.75	Sum of GTIs [s]
ontime3	20181.75	Sum of GTIs [s]
ontime5	20181.75	Sum of GTIs [s]
ontime6	20181.75	Sum of GTIs [s]
ontime7	20181.75	Sum of GTIs [s]
ontime8	20181.75	Sum of GTIs [s]
l2events	282136	Number of level 2 events



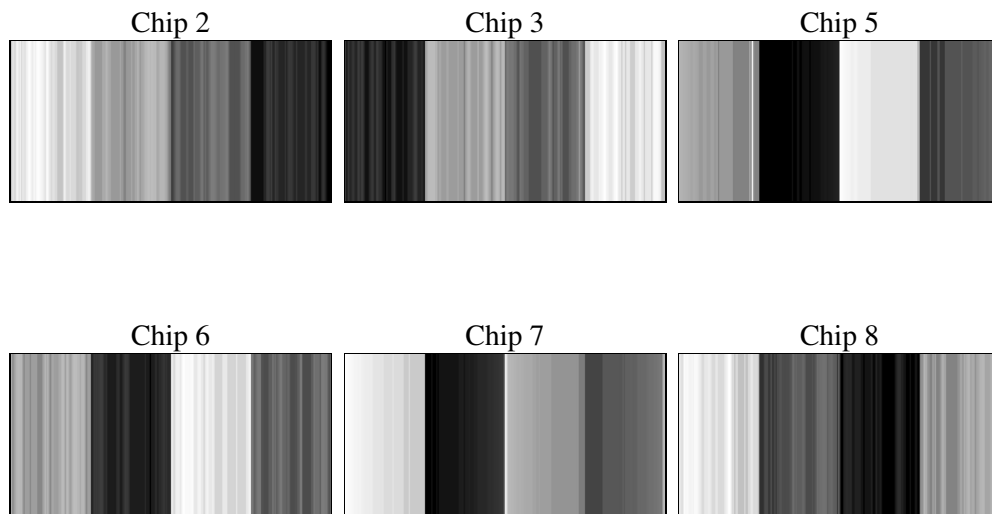
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	20181.75	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	20181.75	Sum of GTIs [s]
date	2020-09-26T20:18:52	Date and time of file creation	ontime3	20181.75	Sum of GTIs [s]
revision	5	Processing version of data	ontime5	20181.75	Sum of GTIs [s]
			ontime6	20181.75	Sum of GTIs [s]
			ontime7	20181.75	Sum of GTIs [s]
			ontime8	20181.75	Sum of GTIs [s]
			l1events	609778	Number of level 1 events

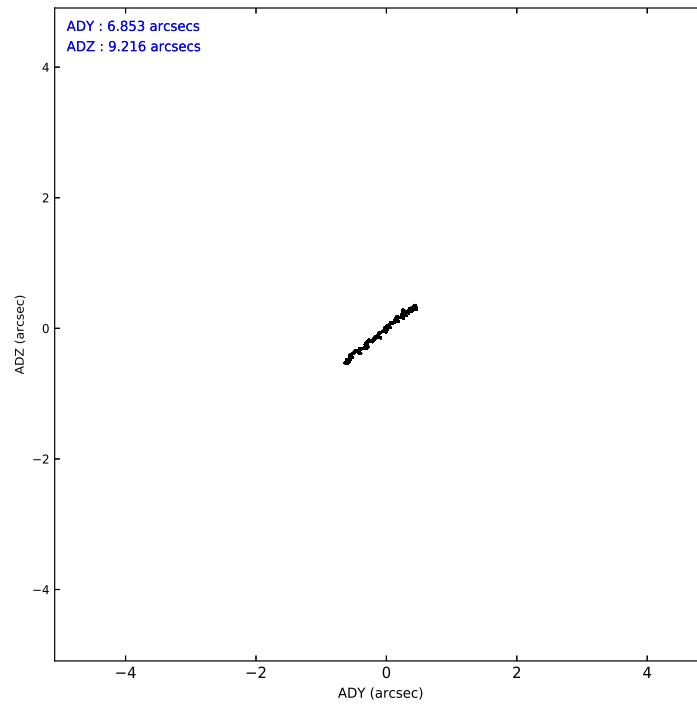
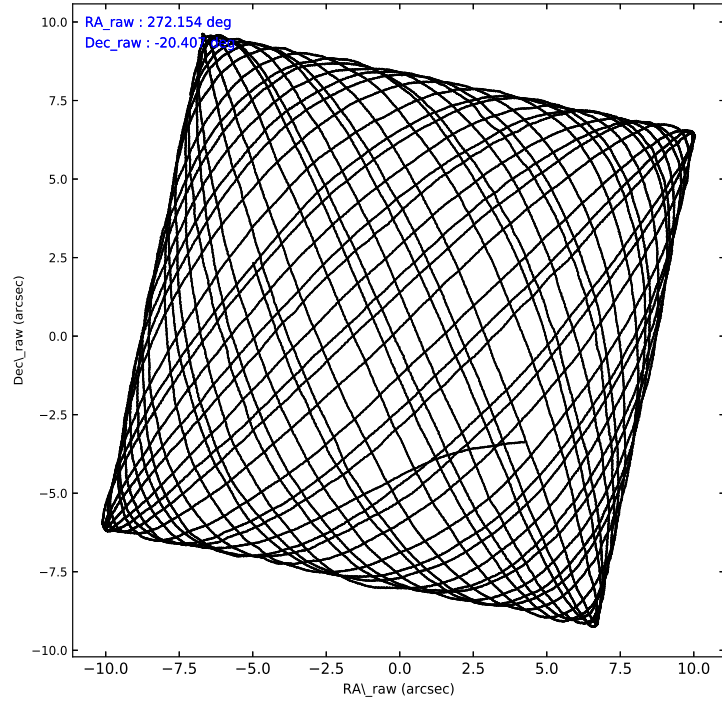
2.1.4 Events

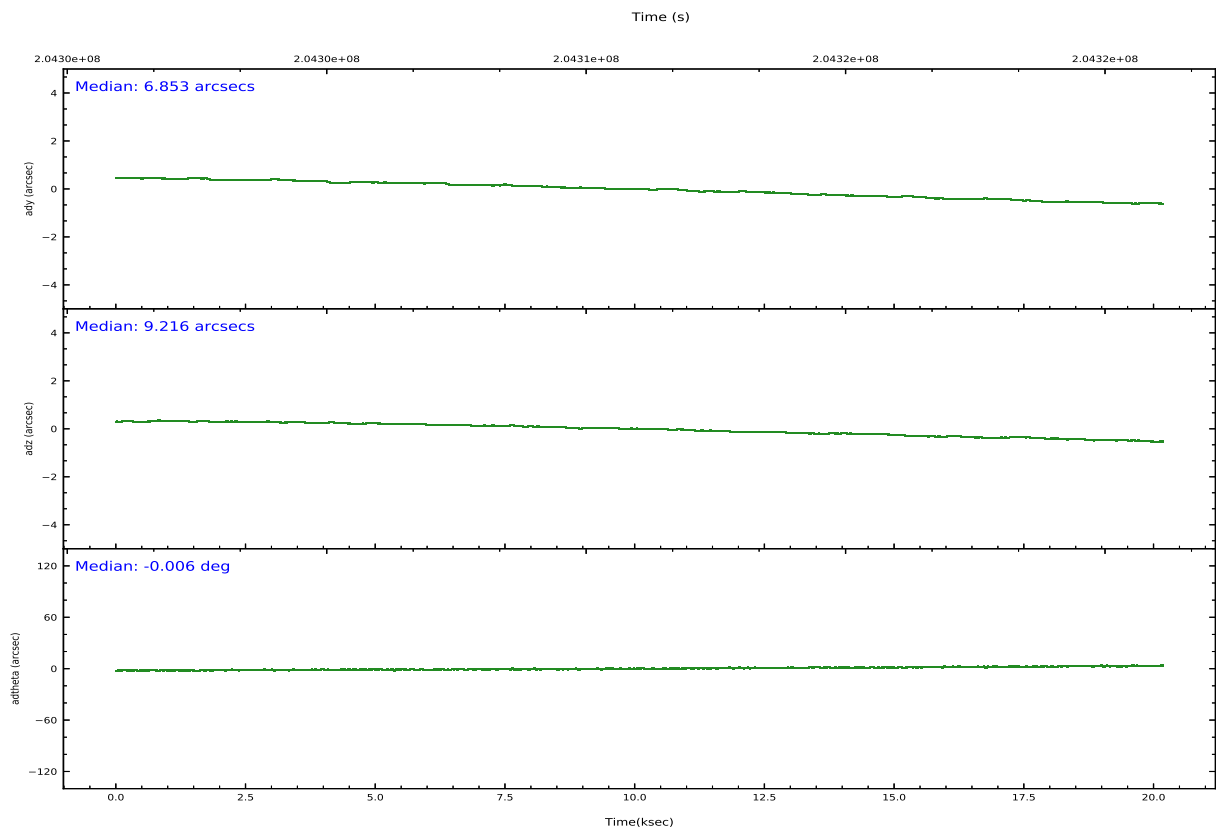
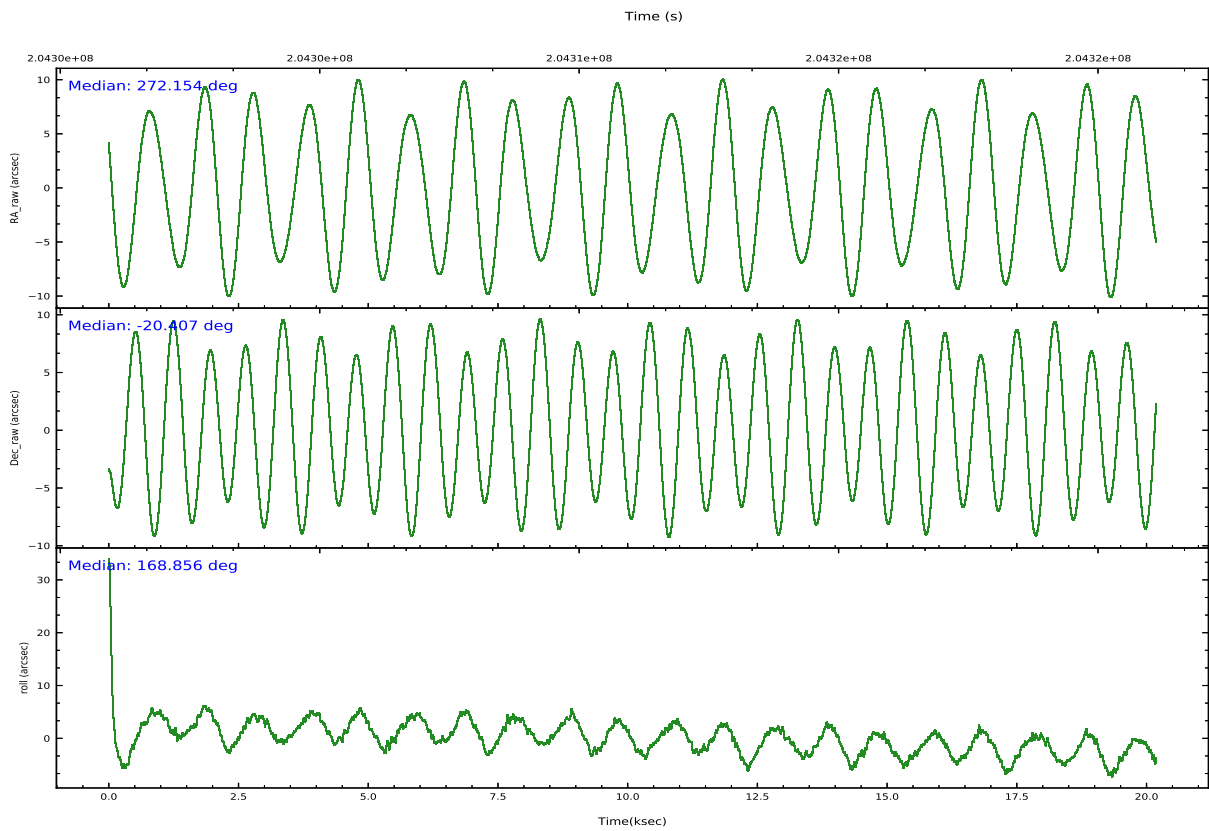
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	30215	32158	331753	33436	119313	62903	grade 0 events	3633	3533	137410	3298	11466	10036
rejected events	6194	6569	17589	7018	19806	10137		12%	10%	41%	9%	9%	15%
rejected %	20%	20%	5%	20%	16%	16%	grade 1 events	138	130	230	142	289	218
								0%	0%	0%	0%	0%	0%
							grade 2 events	9377	10005	115135	10834	25730	16953
								31%	31%	34%	32%	21%	26%
							grade 3 events	3120	3781	2999	3337	8043	6062
								10%	11%	0%	9%	6%	9%
							grade 4 events	3207	3284	2913	3192	8053	6052
								10%	10%	0%	9%	6%	9%
							grade 5 events	5493	5807	14097	6259	17440	8656
								18%	18%	4%	18%	14%	13%
							grade 6 events	5247	5618	58969	6374	48292	14926
								17%	17%	17%	19%	40%	23%
							grade 7 events	0	0	0	0	0	0
								0%	0%	0%	0%	0%	0%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	CC33_FAINT	CC33_FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	272.181489	272.15678968281	Subarray requested	NONE	NONE
[deg] Pointing Dec	-20.398315	-20.405222816241	Alternating exposures requested	N	N
[deg] Pointing Roll	168.716037	168.85620202288	[s] Primary exposure time	0.000000	0
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	204301121.184000	204300353.05674			
Observation start date	2004-06-22T14:17:37	2004-06-22T14:05:53			
[s] Observation end time (MET)	204321121.184000	204321681.77019			
Observation end date	2004-06-22T19:50:57	2004-06-22T20:01:21			
Read mode	CONTINUOUS	CONTINUOUS			

2.3 Aspect





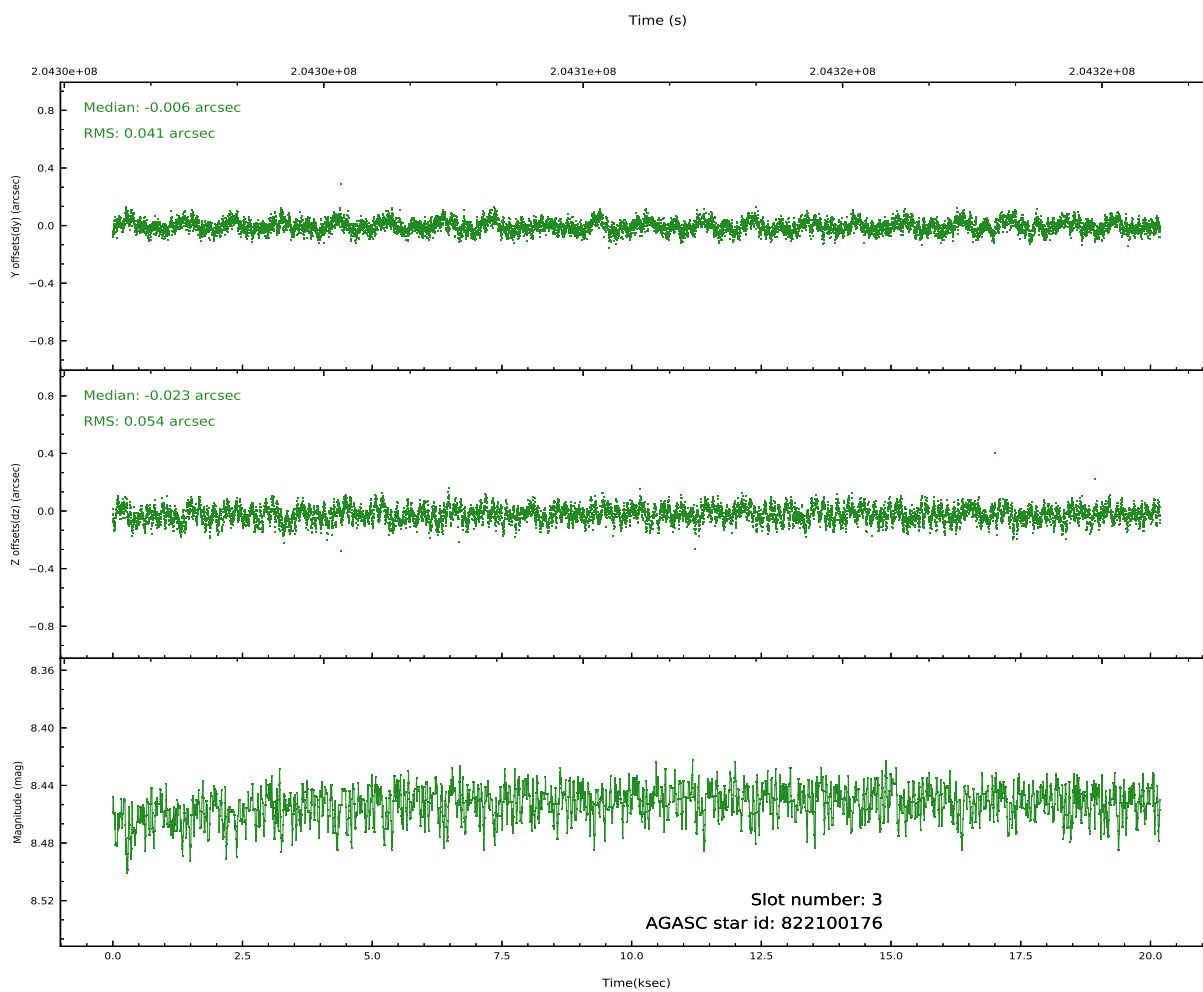
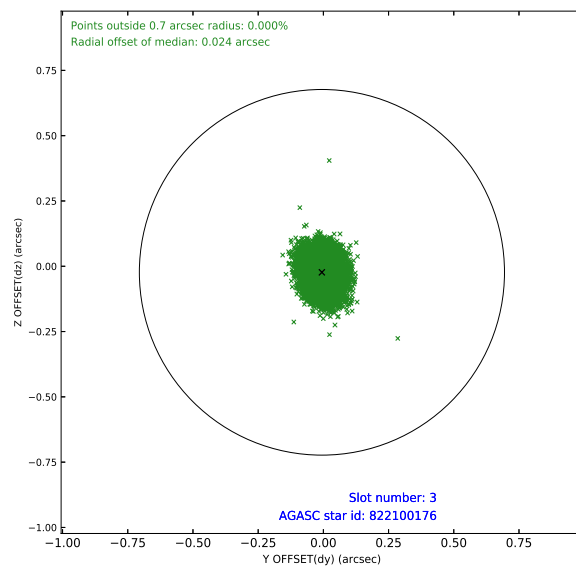
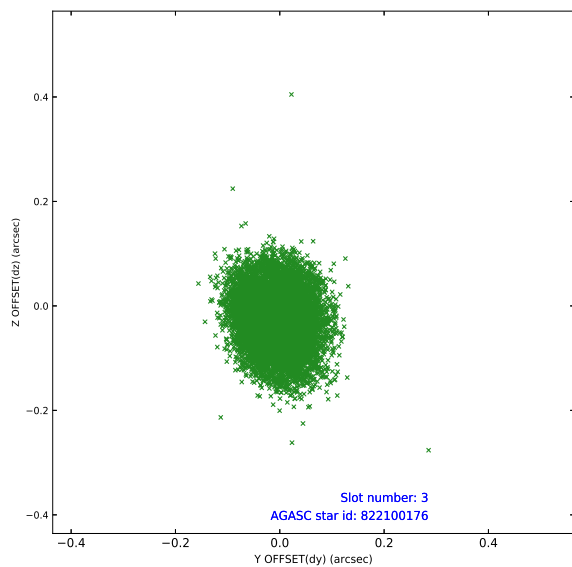
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-1	7.18	4924	1.000	0.016	-0.047	0.009	0.015	0.000000	0.000000	936.50	-1726
1	FID		ACIS-S-4	7.20	4924	1.000	0.096	0.029	0.008	0.013	0.000000	0.000000	2154.07	177
2	FID		ACIS-S-5	7.23	4924	1.000	-0.140	0.031	0.008	0.014	0.000000	0.000000	-1812.31	171
3	GUIDE	used	822100176	8.45	9840	1.000	-0.006	-0.023	0.072	0.115	272.112888	-19.868886	601.44	-1823
4	GUIDE	used	822102232	8.81	9843	1.000	0.063	-0.015	0.069	0.113	272.350923	-20.034935	-305.34	-1394
5	GUIDE	used	822102416	7.49	9848	1.000	-0.045	0.004	0.047	0.074	272.173216	-20.087156	247.10	-1092
6	GUIDE	used	822616024	8.42	9843	1.000	-0.010	0.008	0.071	0.114	272.218514	-20.919122	-489.25	1814
7	GUIDE	used	822617304	8.98	9841	1.000	-0.003	0.020	0.095	0.159	272.421826	-20.831304	-1098.23	1371

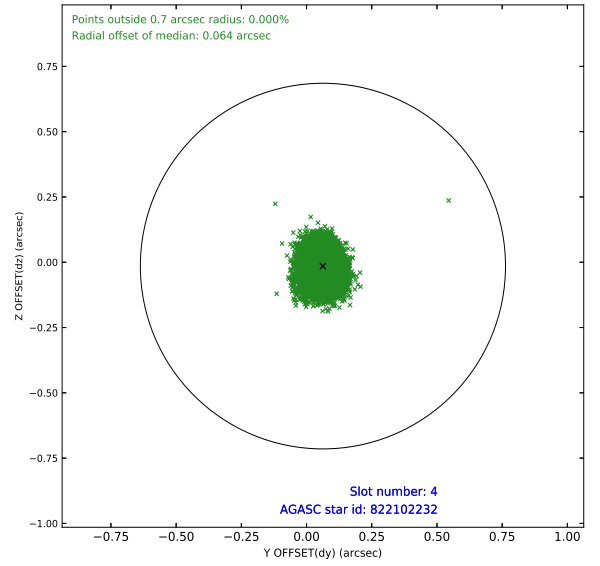
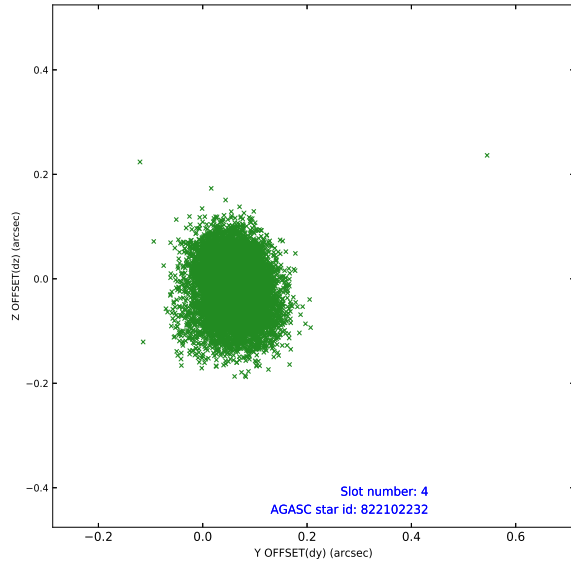
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2.4 Star Slots

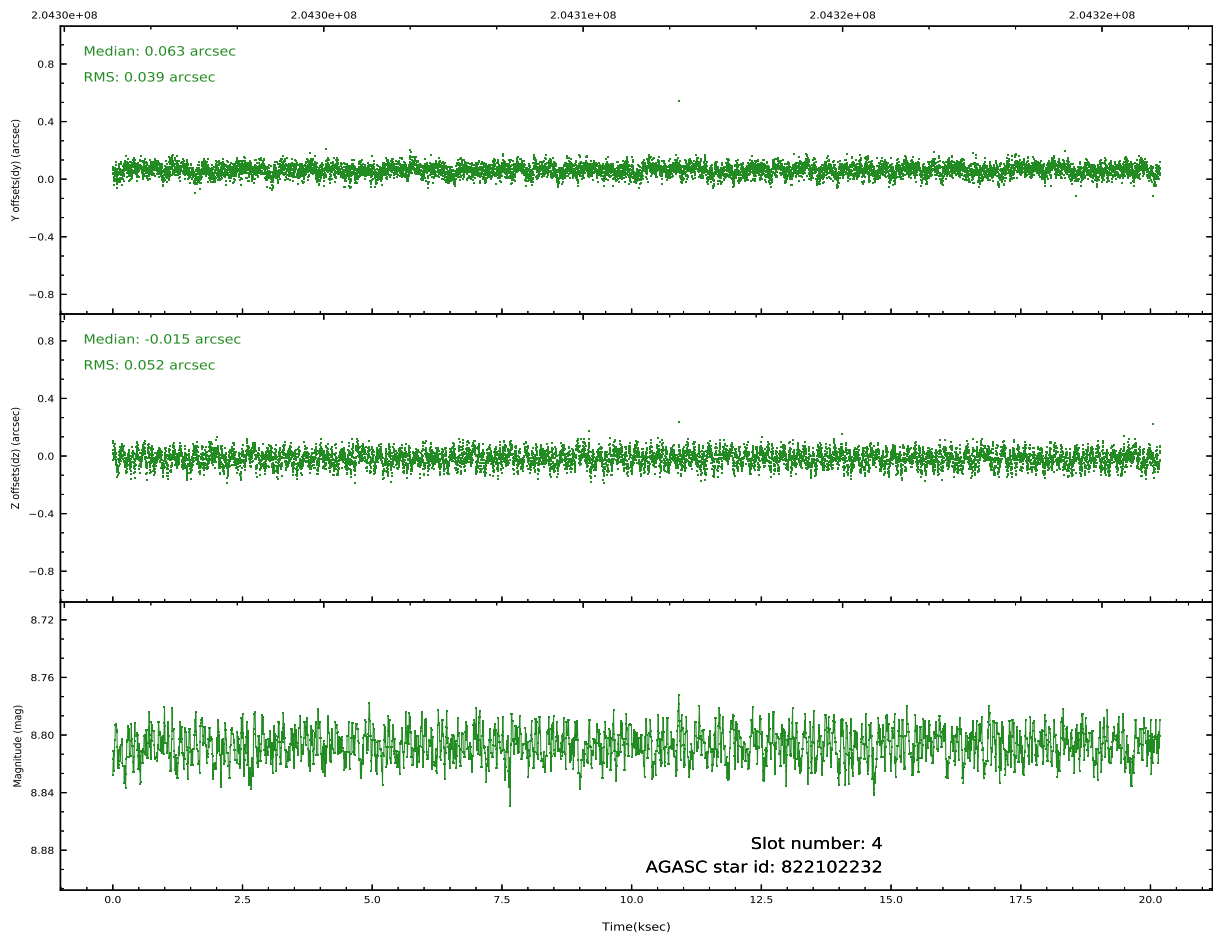
2.4.1 Slot 3



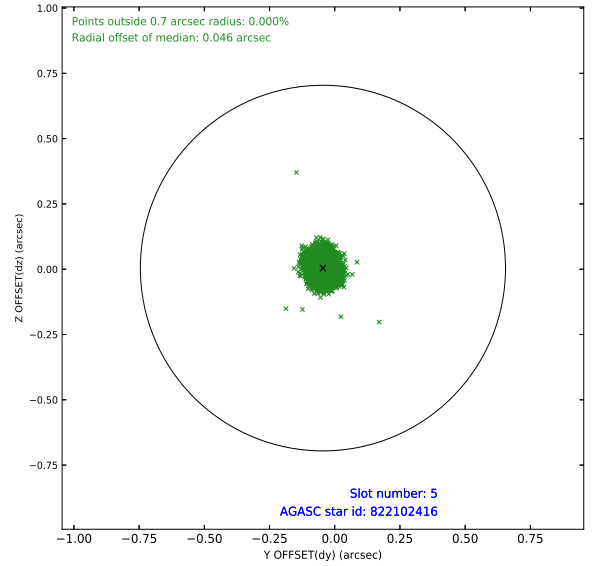
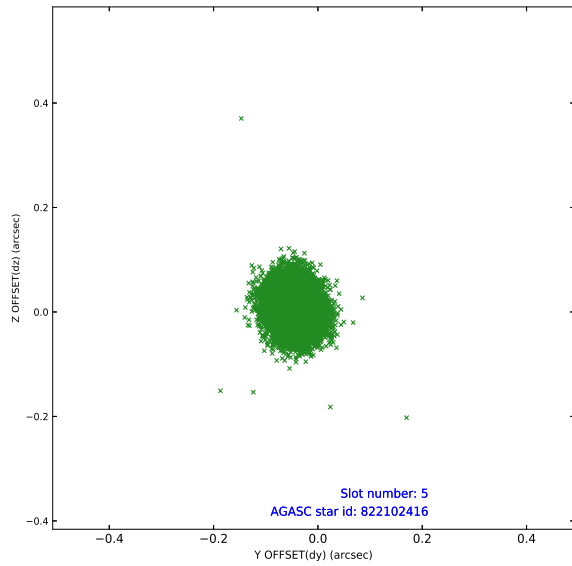
2.4.2 Slot 4



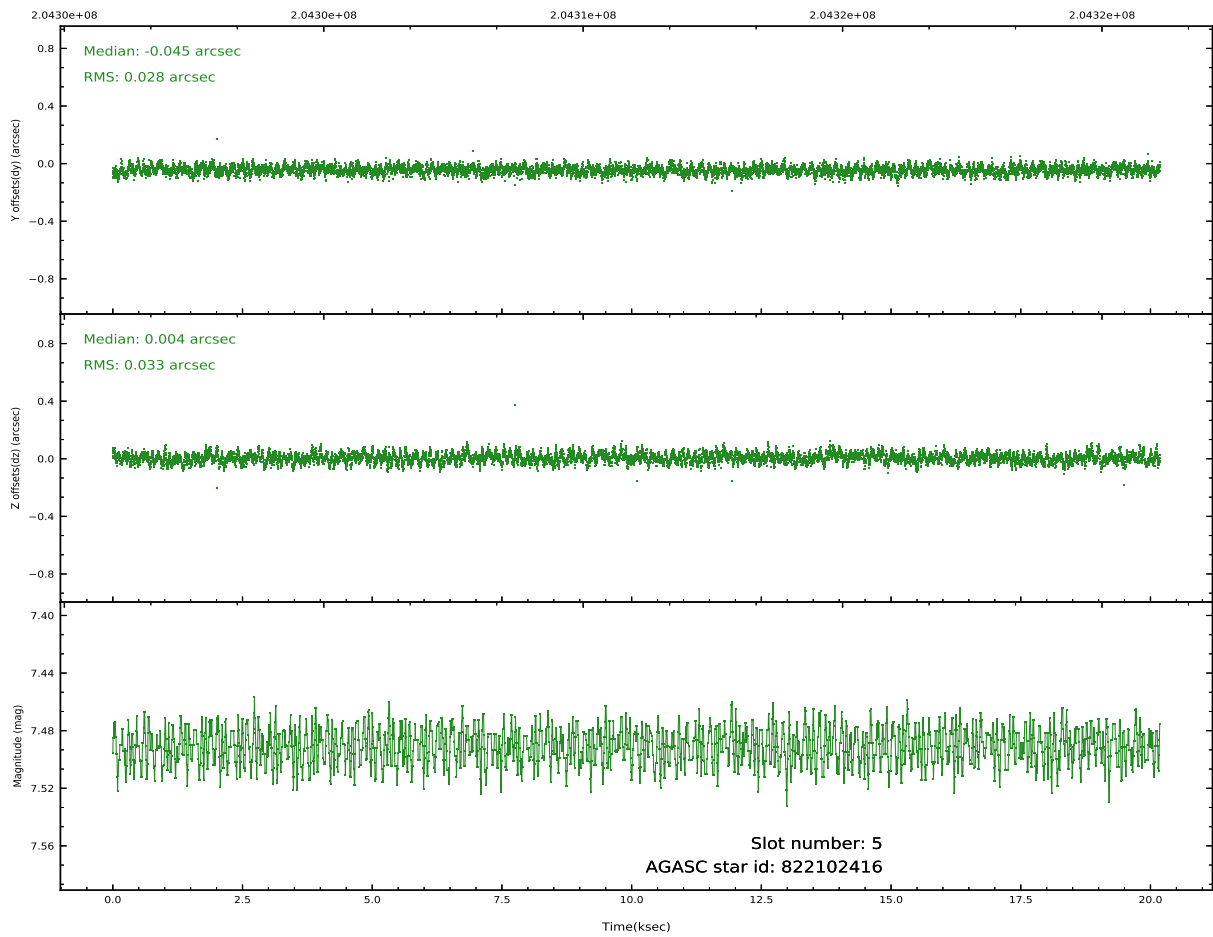
Time (s)



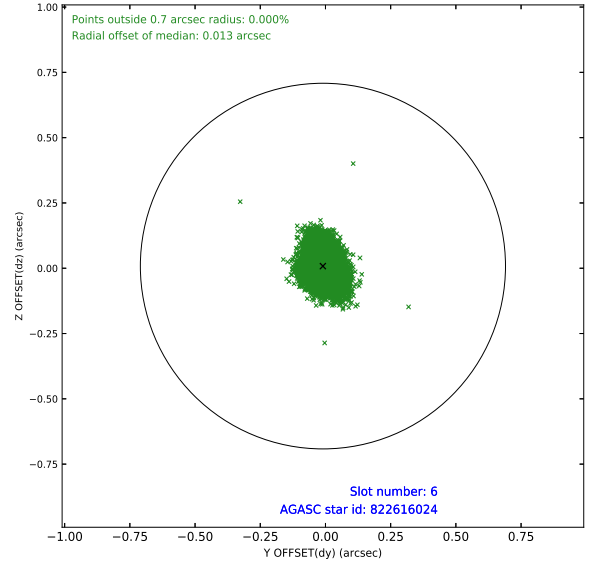
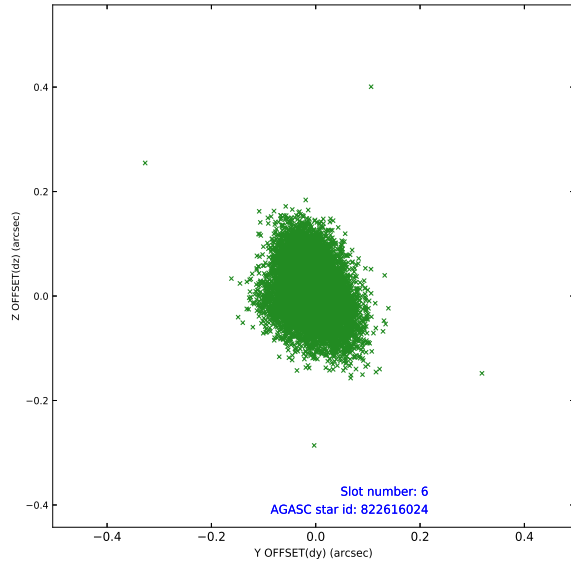
2.4.3 Slot 5



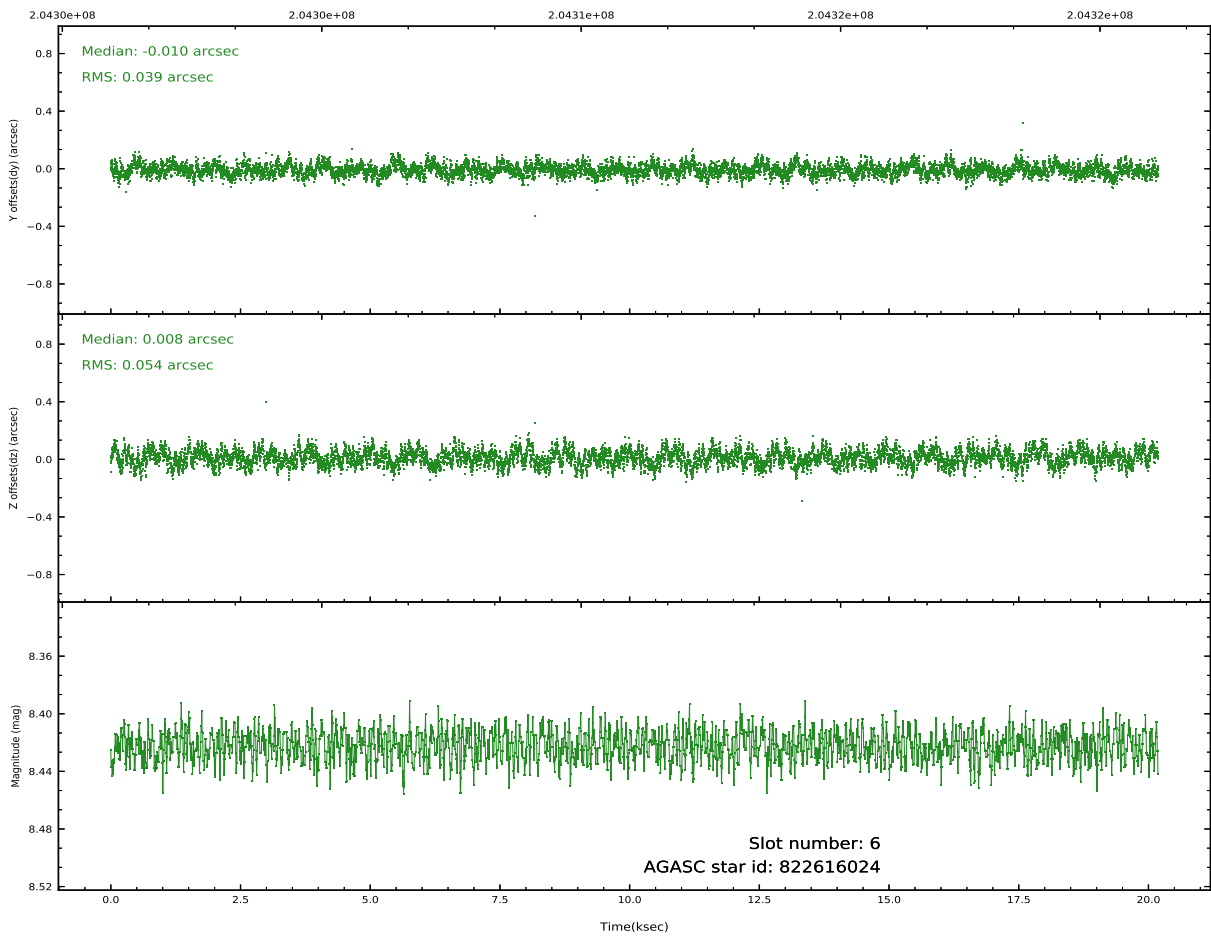
Time (s)



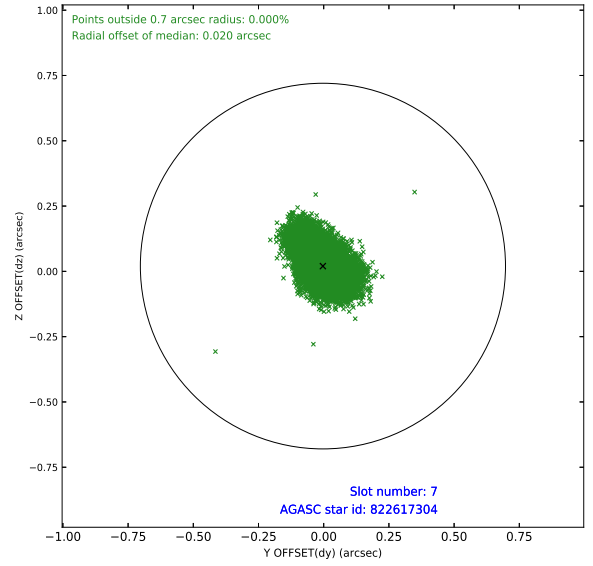
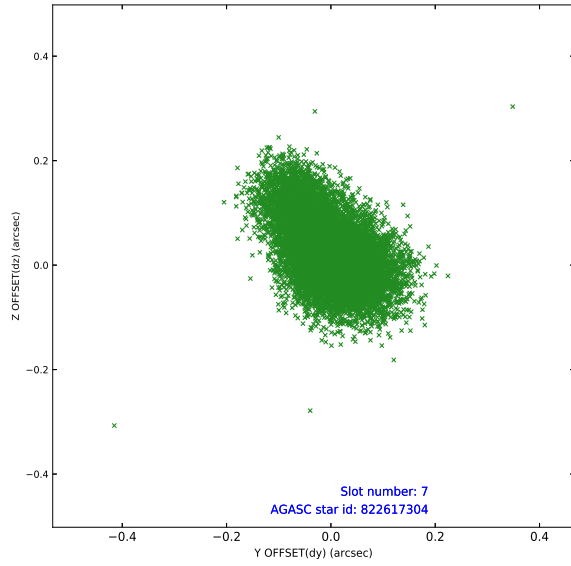
2.4.4 Slot 6



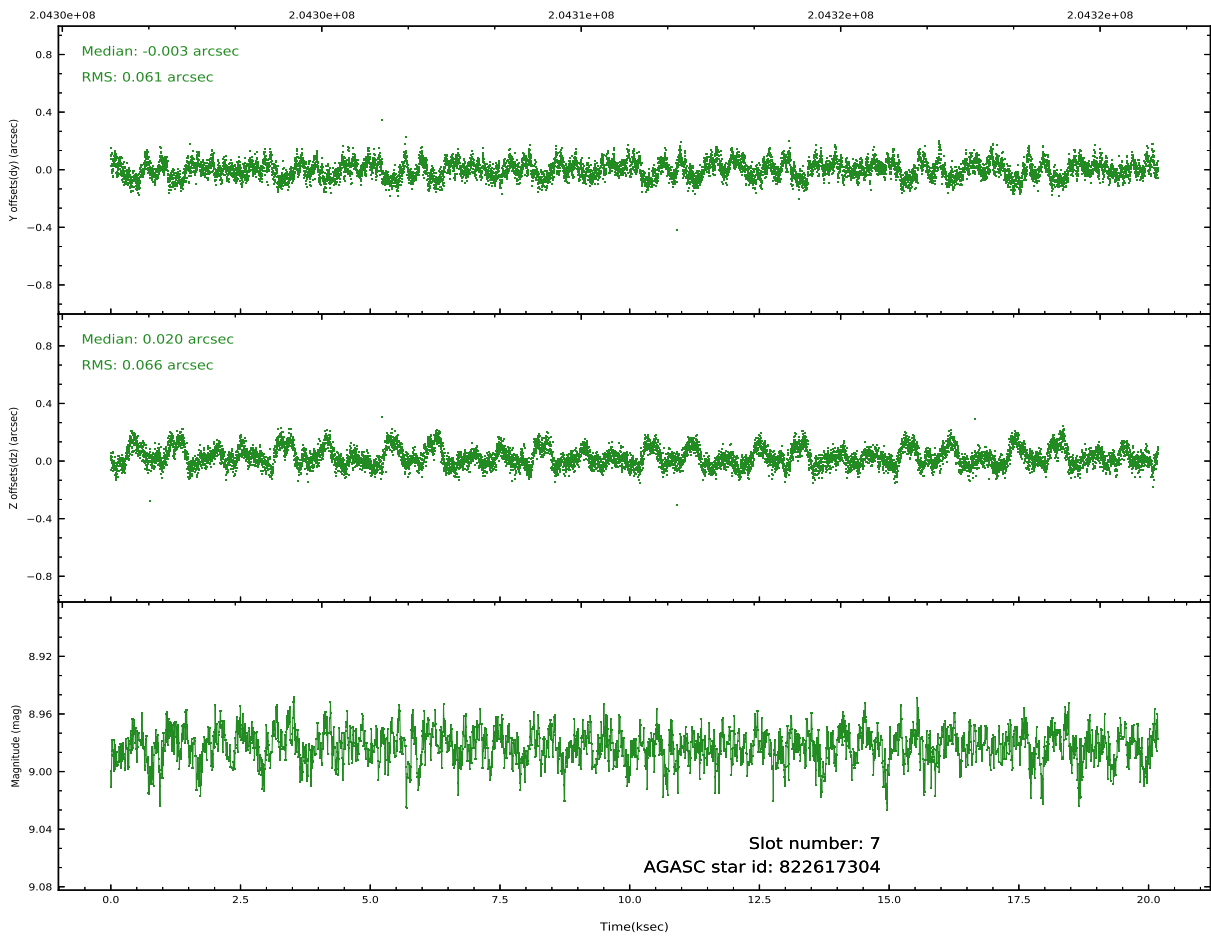
Time (s)



2.4.5 Slot 7

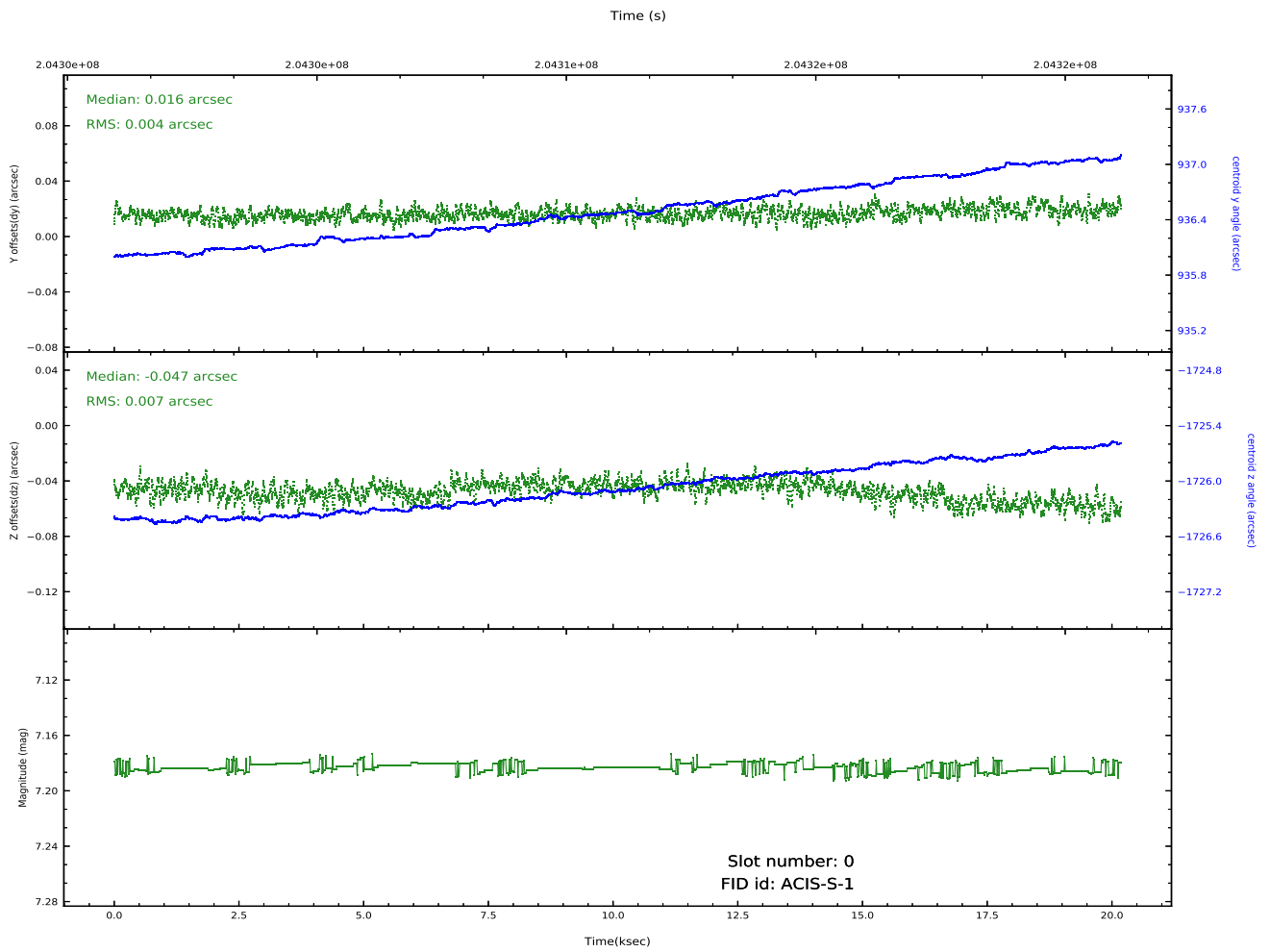
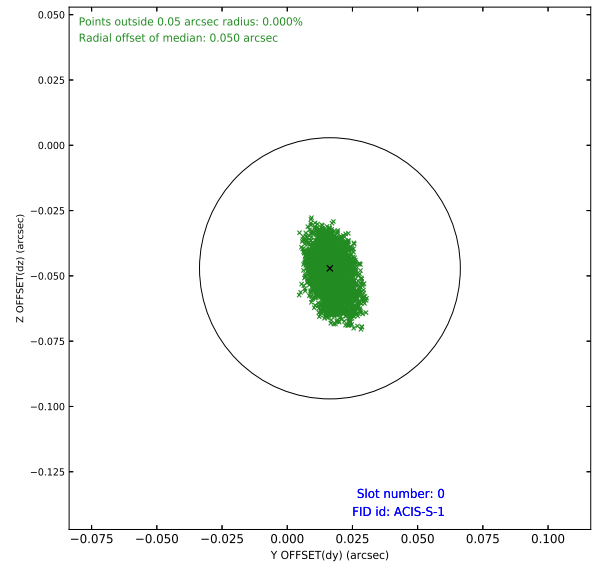
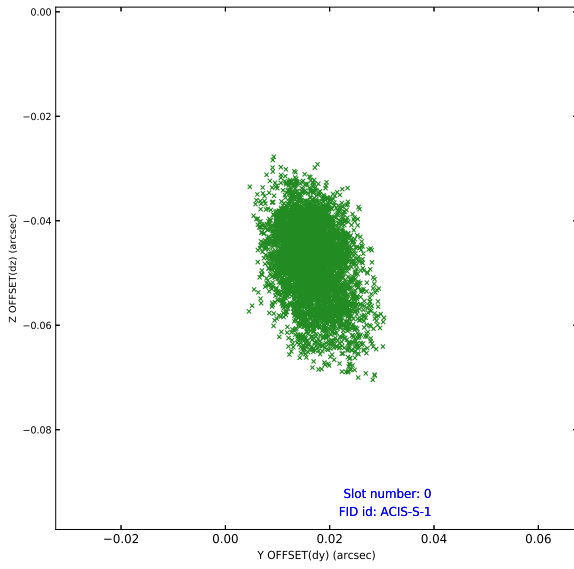


Time (s)

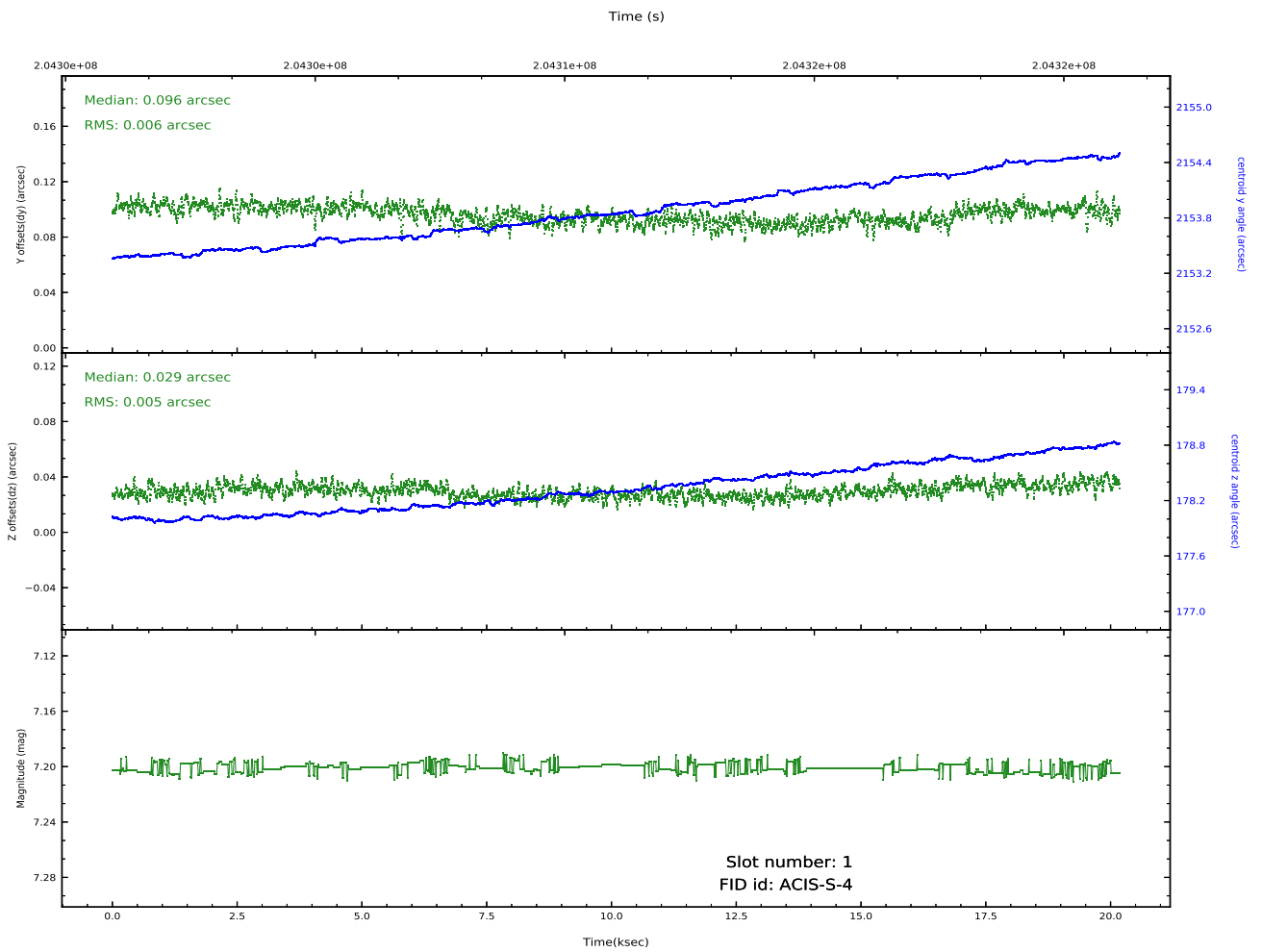
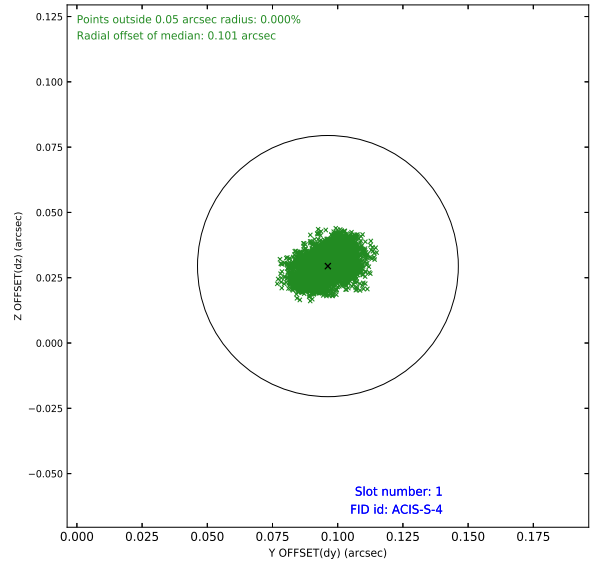
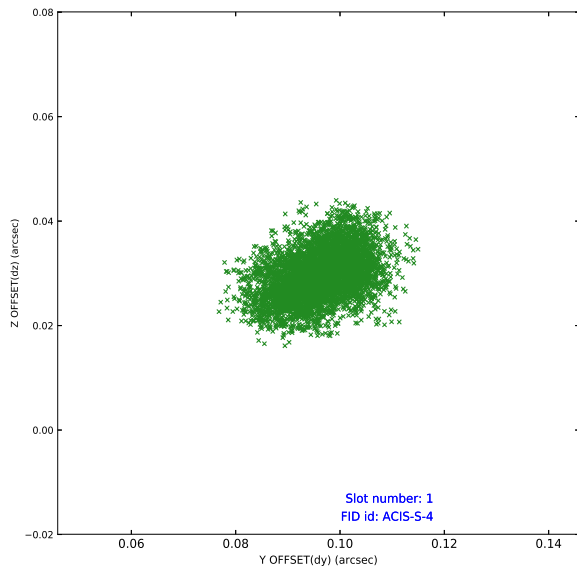


2.5 FID Slots

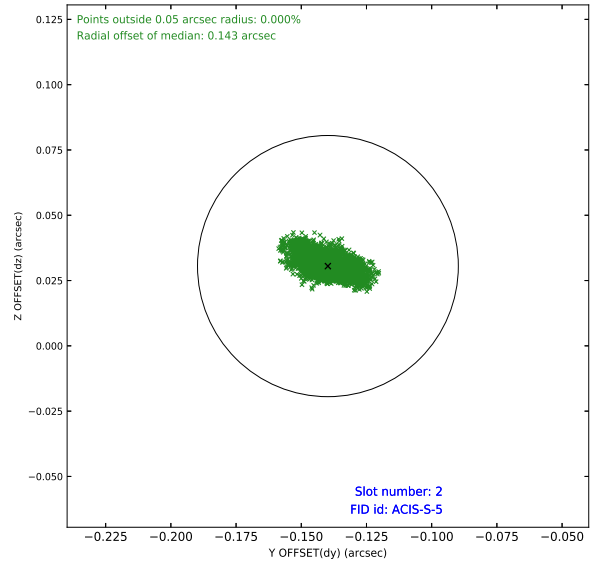
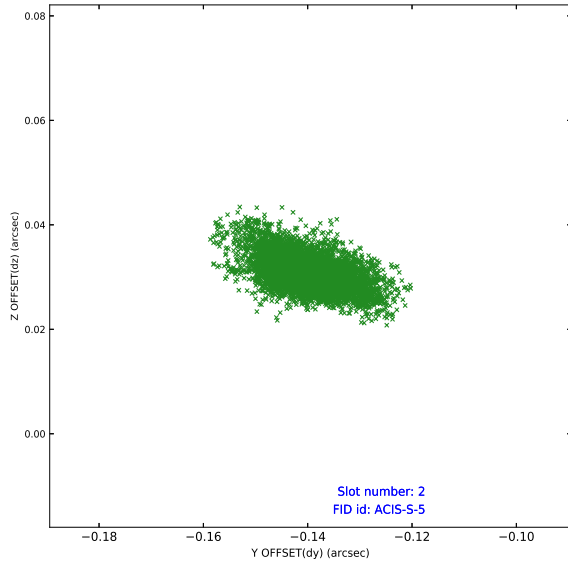
2.5.1 Slot 0



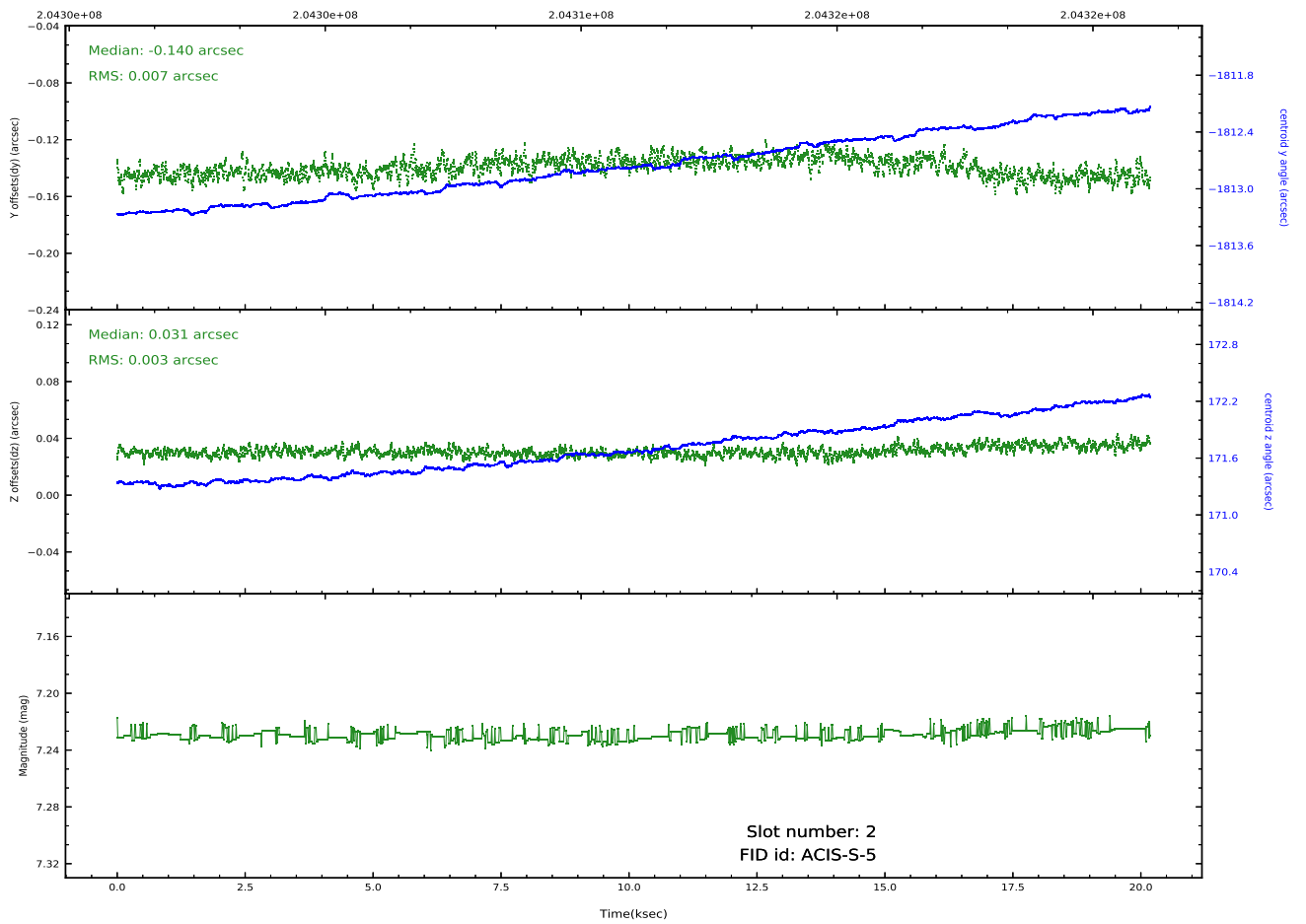
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Melania Nynka
V&V Date (YYYY-MM-DD)	2020.10.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.185

A.2 Comments