

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5921 - L2 Version 4
Chandra X-Ray Center

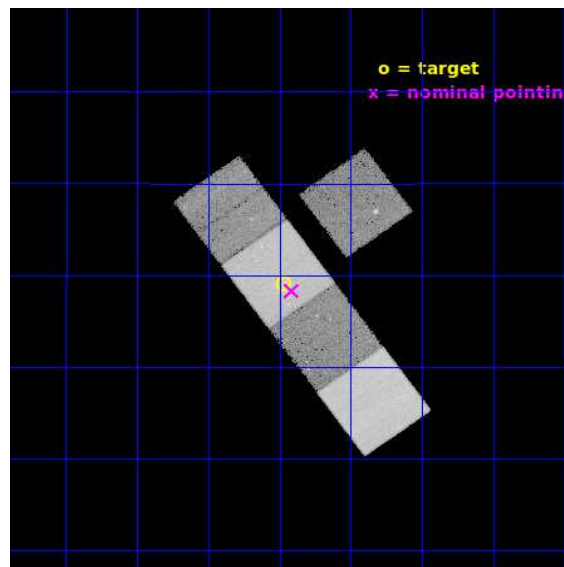
L2 Processing Date : Oct 7 2020

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1 Front

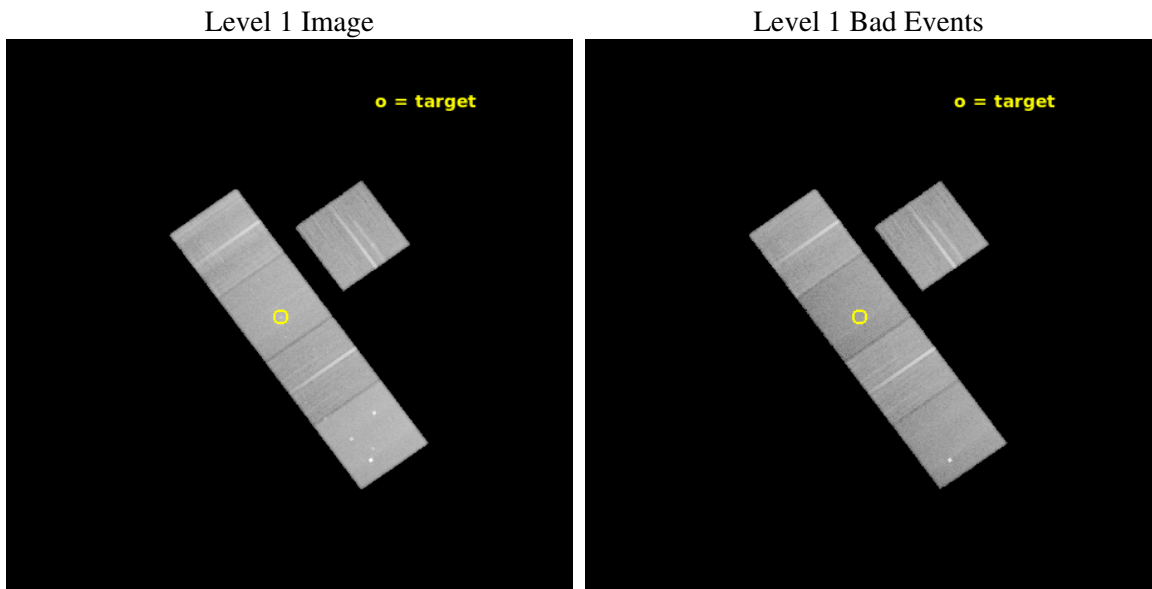
seq_num	600440	Sequence number
obs_id	5921	Observation id
title	Low Mass X-ray Binaries and Globular Clusters in the Early-Type Galaxy NGC 4365	Proposal title
observer	Prof. Gregory Sivakoff	Principal investigator
object	NGC4365	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.117917	Observer's specified target RA [deg]
dec_targ	7.317722	Observer's specified target Dec [deg]
ra_nom	186.10321757862	Nominal RA [deg]
dec_nom	7.3054572831817	Nominal Dec [deg]
roll_nom	234.12415538699	Nominal Roll [deg]
revision	4	Processing version of data
ontime	40033.399922997	Sum of GTIs [s]
livetime	39510.334080843	Livetime [s]
ontime3	40027.117942512	Sum of GTIs [s]
ontime5	40033.399922997	Sum of GTIs [s]
ontime6	40030.25893271	Sum of GTIs [s]
ontime7	40033.399922997	Sum of GTIs [s]
ontime8	40030.258932739	Sum of GTIs [s]
l2events	368778	Number of level 2 events



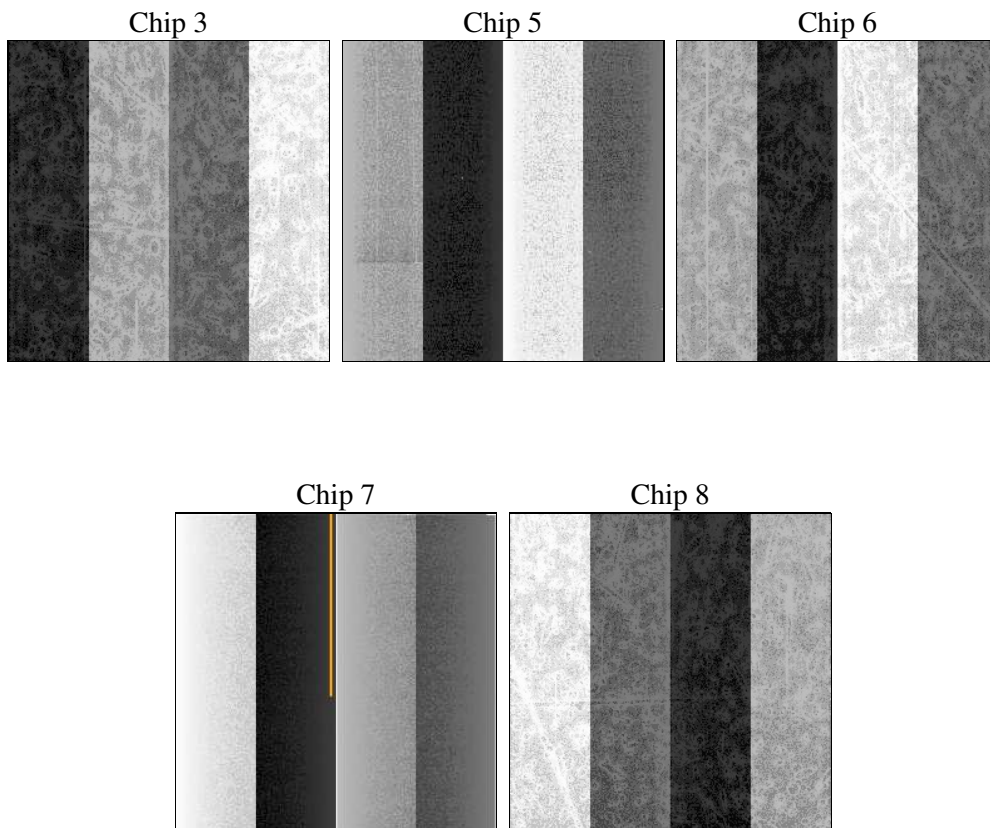
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	40033.399922997	Sum of GTIs [s]
caldbver	4.9.2	 	ontime3	40027.117942512	Sum of GTIs [s]
date	2020-10-08T01:11:26	Date and time of file creation	ontime5	40033.399922997	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	40030.25893271	Sum of GTIs [s]
			ontime7	40033.399922997	Sum of GTIs [s]
			ontime8	40030.258932739	Sum of GTIs [s]
			l1events	1499642	Number of level 1 events

2.1.4 Events

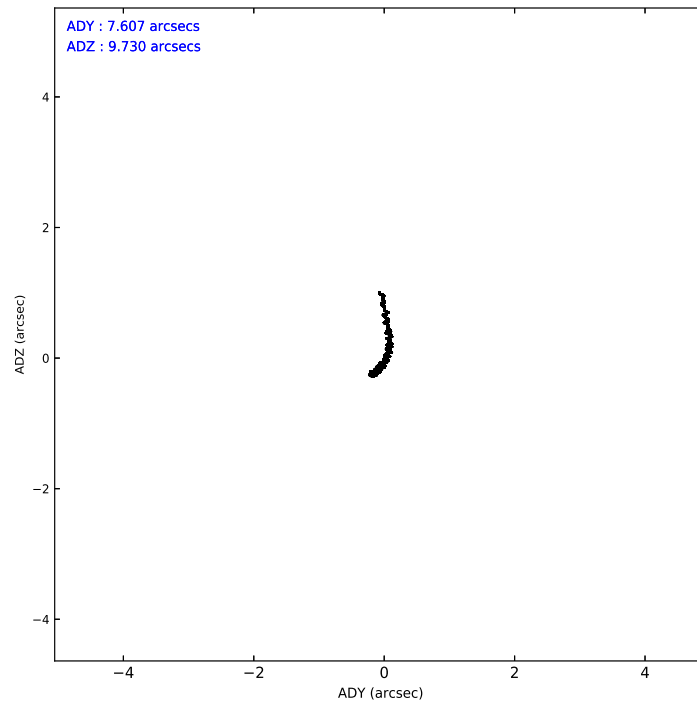
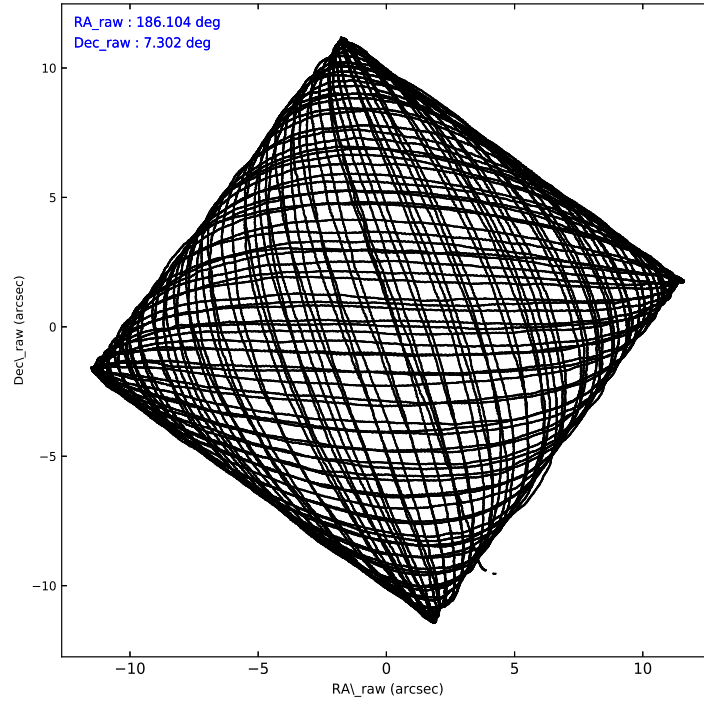
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	255084	359816	259729	295906	329107
rejected events	230641	182324	232040	158292	252888
rejected %	90%	50%	89%	53%	76%

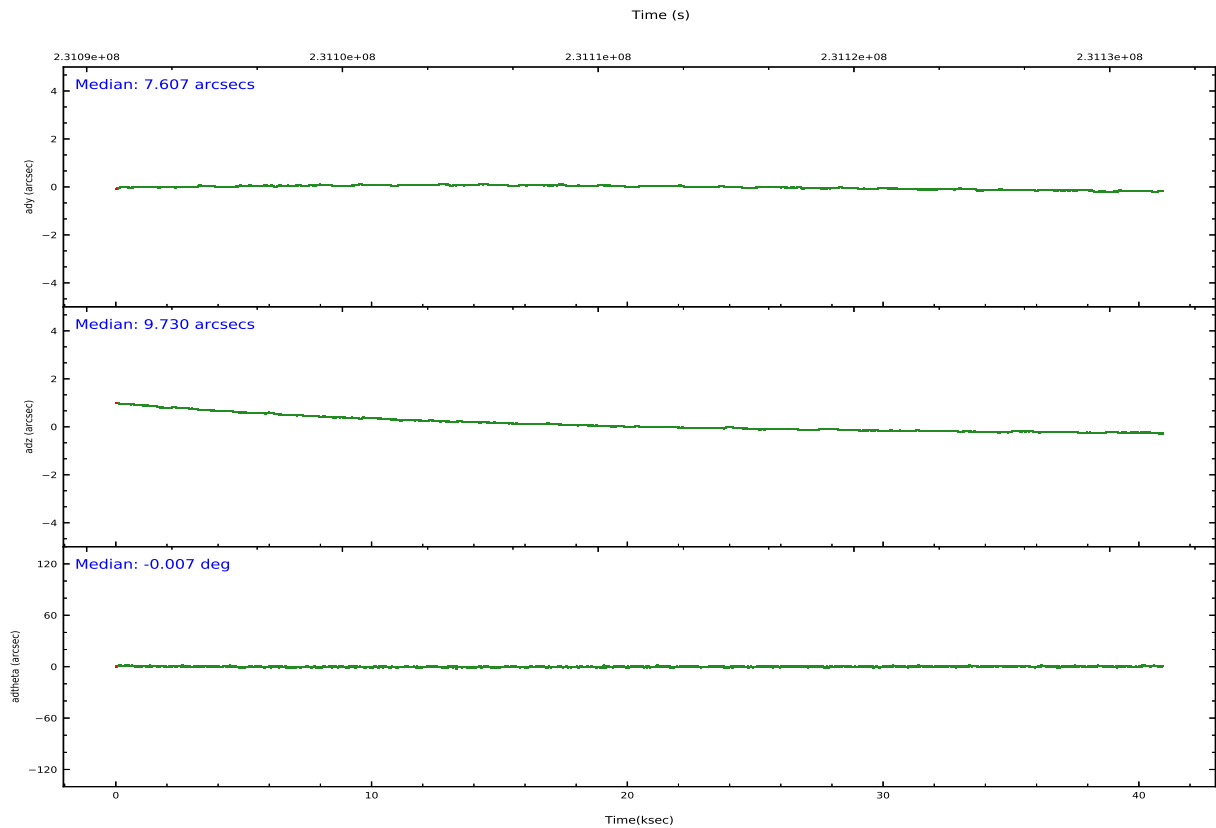
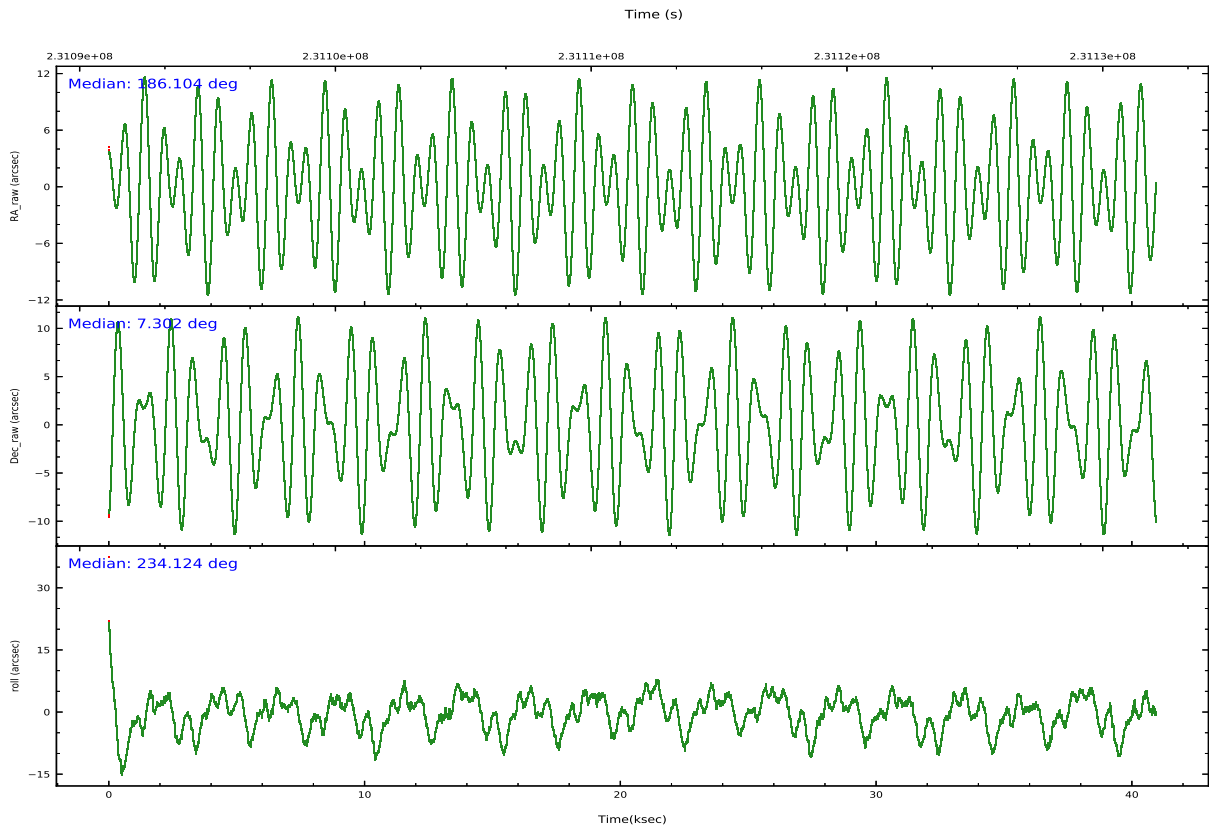
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	9168	18262	10328	14247	23572
	3%	5%	3%	4%	7%
grade 1 events	136	355	117	247	250
	0%	0%	0%	0%	0%
grade 2 events	5072	53558	5707	27871	17259
	1%	14%	2%	9%	5%
grade 3 events	2762	8071	3031	13312	7849
	1%	2%	1%	4%	2%
grade 4 events	2701	7654	2859	13170	7388
	1%	2%	1%	4%	2%
grade 5 events	9991	29482	10337	30919	14812
	3%	8%	3%	10%	4%
grade 6 events	4741	89957	5767	69020	20153
	1%	25%	2%	23%	6%
grade 7 events	220513	152477	221583	127120	237824
	86%	42%	85%	42%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-35678	ACIS-35678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	186.106726	186.10321757862	Subarray requested	NONE	NONE
[deg] Pointing Dec	7.329091	7.3054572831817	Alternating exposures requested	N	N
[deg] Pointing Roll	233.971511	234.12415538699	[s] Primary exposure time	0.000000	3.1
[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)	231092090.184000	231090778.23491			
Observation start date	2005-04-28T16:13:46	2005-04-28T15:52:58			
[s] Observation end time (MET)	231132090.184000	231133318.29935			
Observation end date	2005-04-29T03:20:26	2005-04-29T03:41:58			
Read mode	TIMED	TIMED			

2.3 Aspect





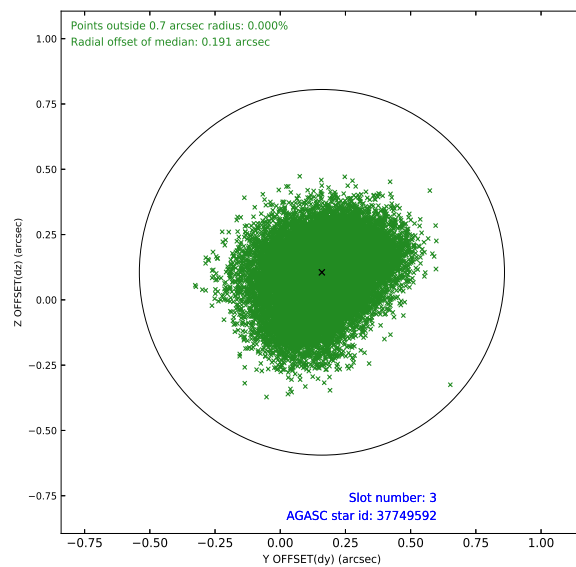
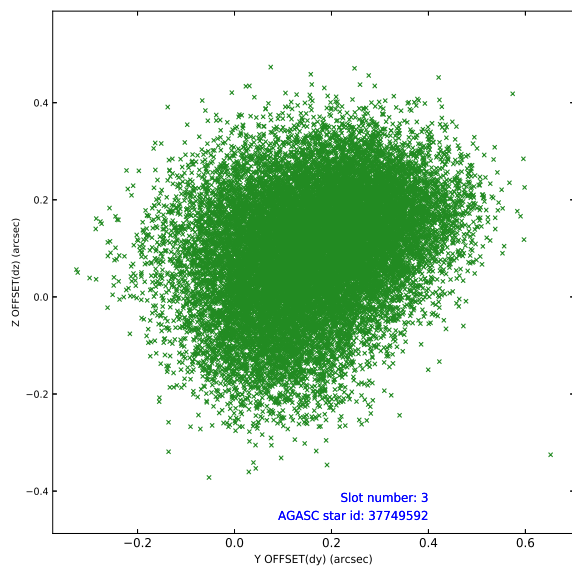
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-1	7.19	9988	1.000	0.054	-0.055	0.012	0.038	0.000000	0.000000	935.76	-1726
1	FID		ACIS-S-5	7.24	9988	1.000	-0.119	0.027	0.008	0.013	0.000000	0.000000	-1813.43	170
2	FID		ACIS-S-6	7.35	9988	1.000	0.043	0.040	0.016	0.044	0.000000	0.000000	401.25	814
3	GUIDE	used	37749592	10.23	19889	1.000	0.160	0.105	0.194	0.306	186.177253	6.631115	1884.28	1681
4	GUIDE	used	37751880	9.66	19947	1.000	0.109	-0.034	0.161	0.250	185.771871	6.844190	2115.85	59
5	GUIDE	used	37753024	8.01	19967	1.000	-0.109	-0.028	0.094	0.152	186.830113	7.241612	-1266.74	2273
6	GUIDE	used	114434008	8.76	19972	1.000	-0.073	-0.024	0.100	0.154	185.534773	7.569663	499.69	-2160
7	GUIDE	used	114565080	10.16	19953	1.000	-0.061	-0.009	0.249	0.369	186.537681	7.759404	-2157.53	331

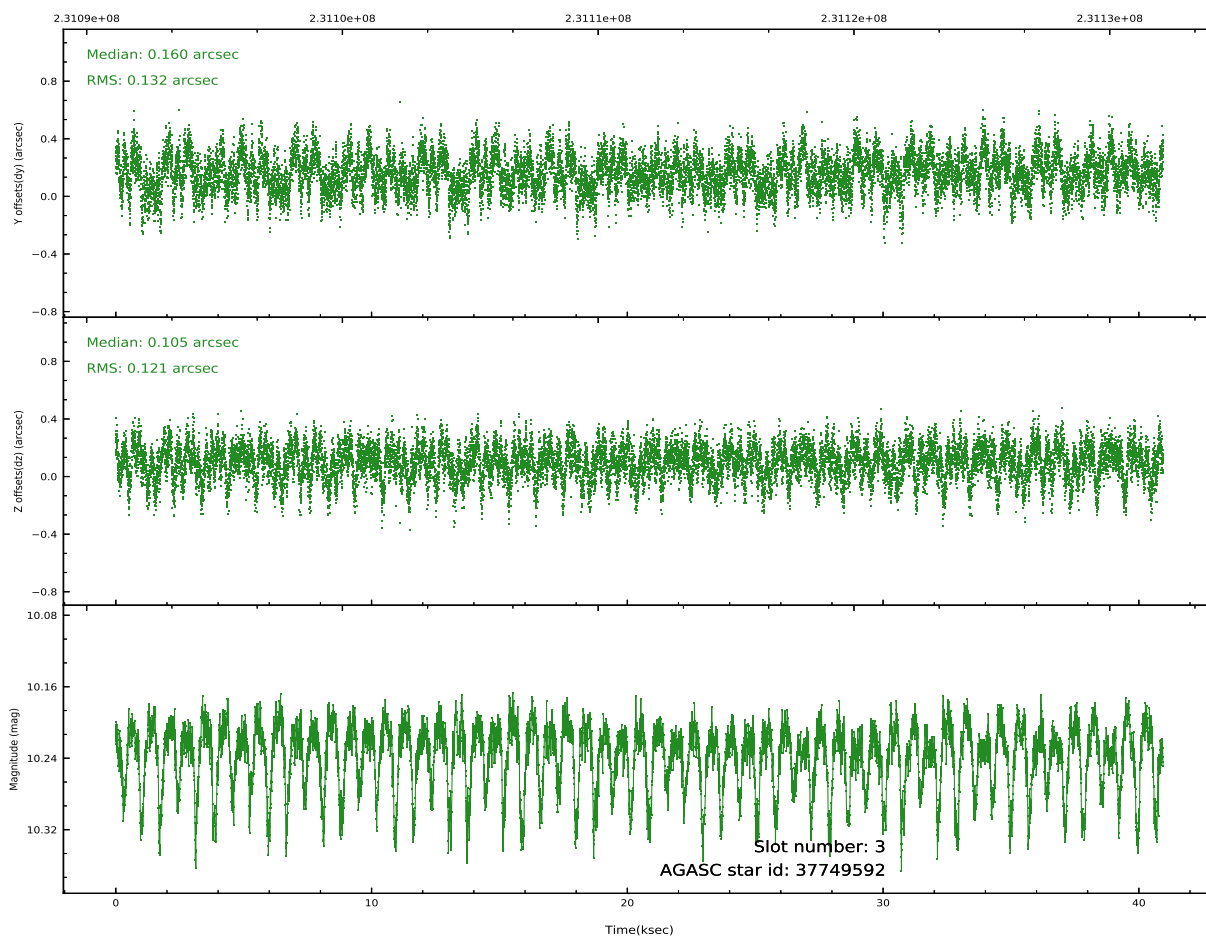
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2.4 Star Slots

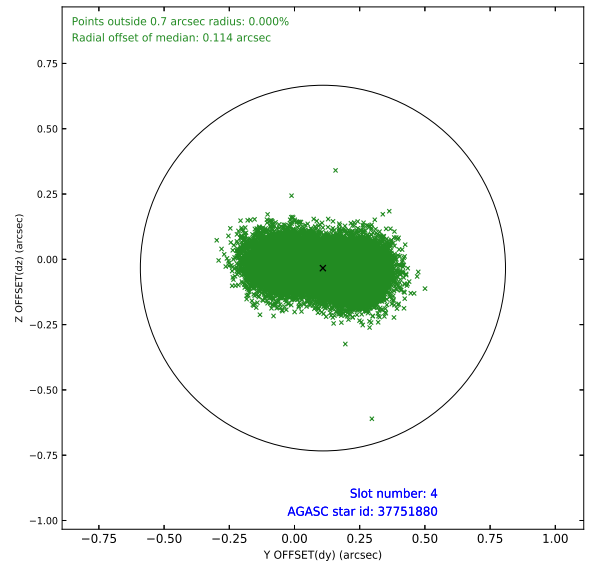
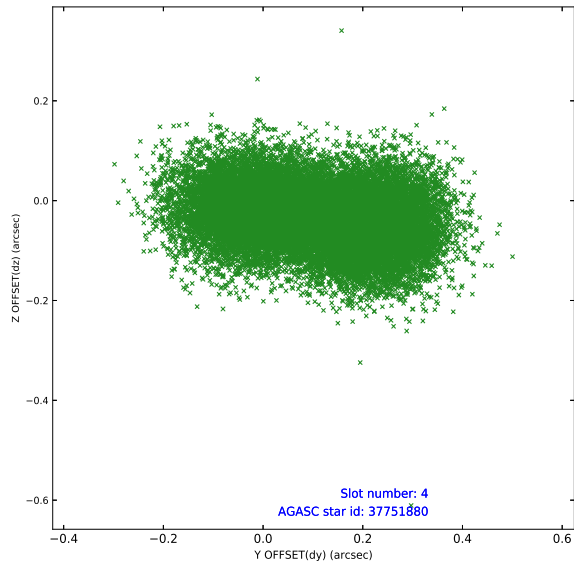
2.4.1 Slot 3



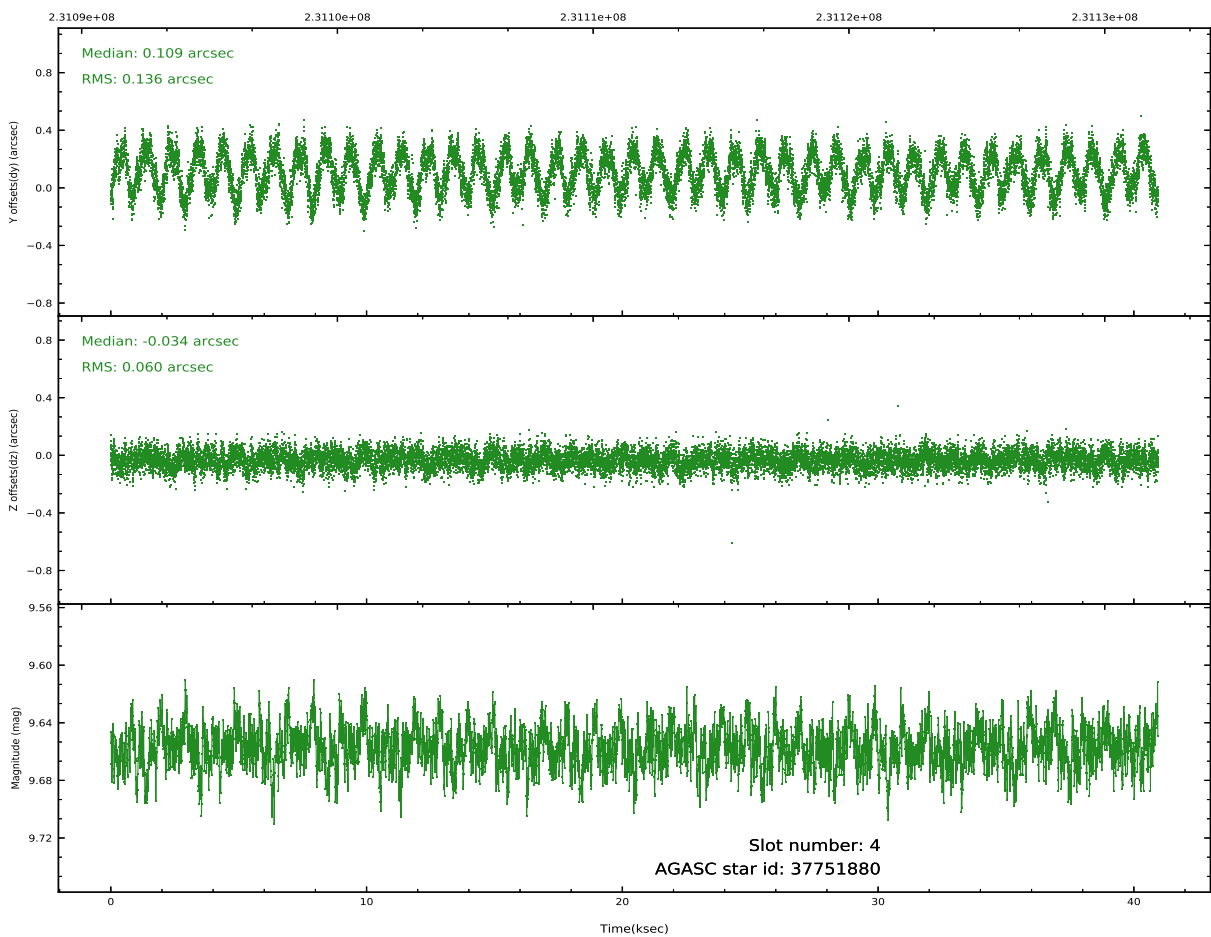
Time (s)



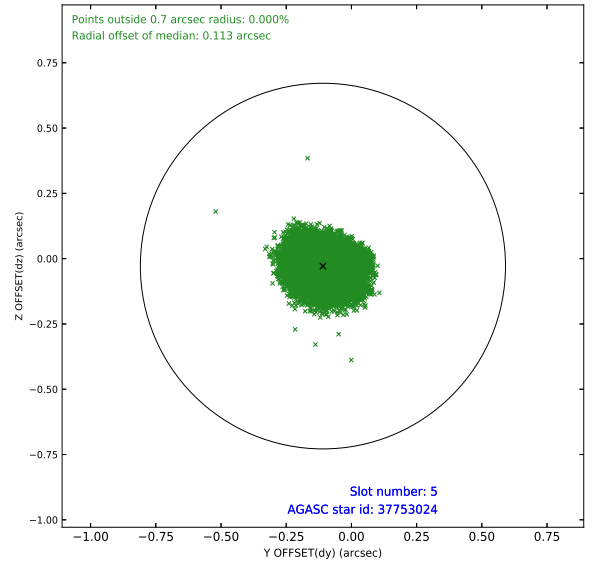
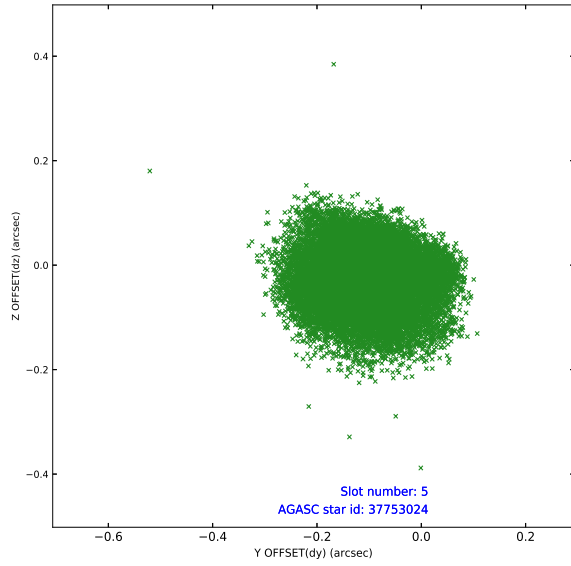
2.4.2 Slot 4



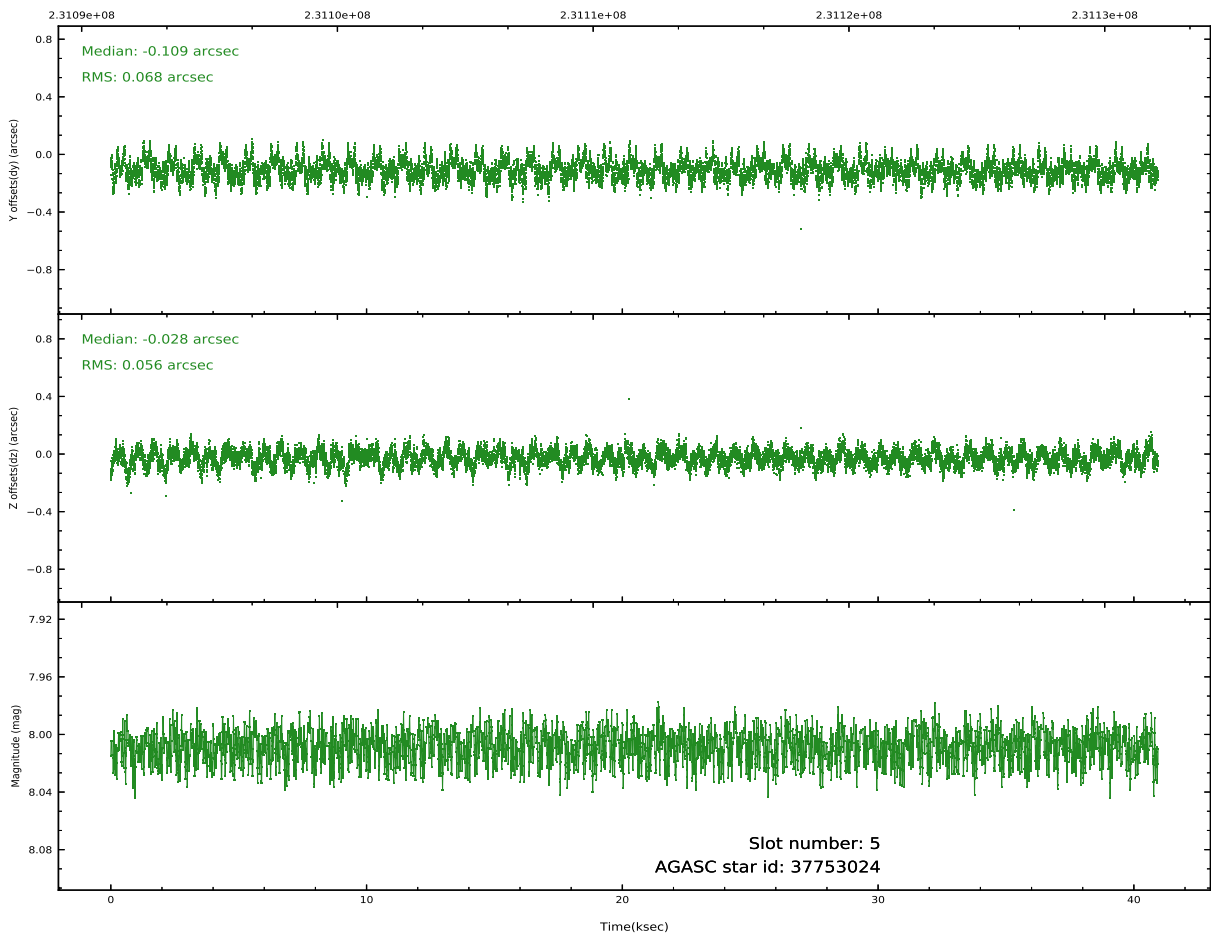
Time (s)



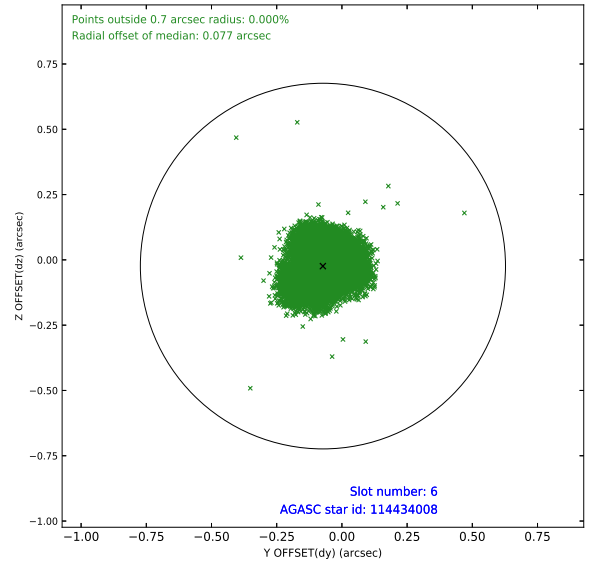
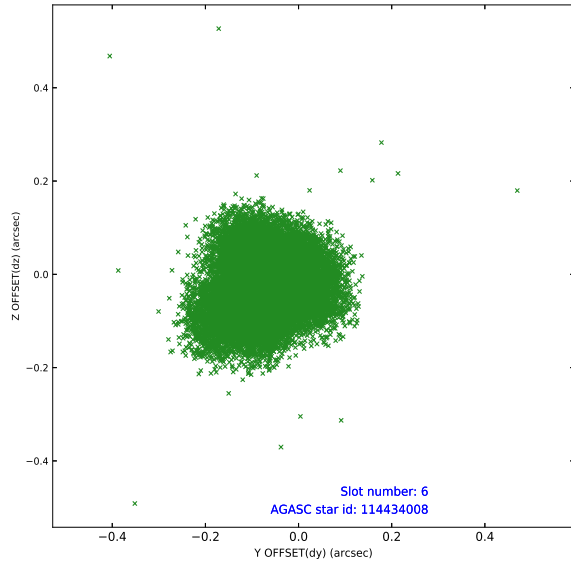
2.4.3 Slot 5



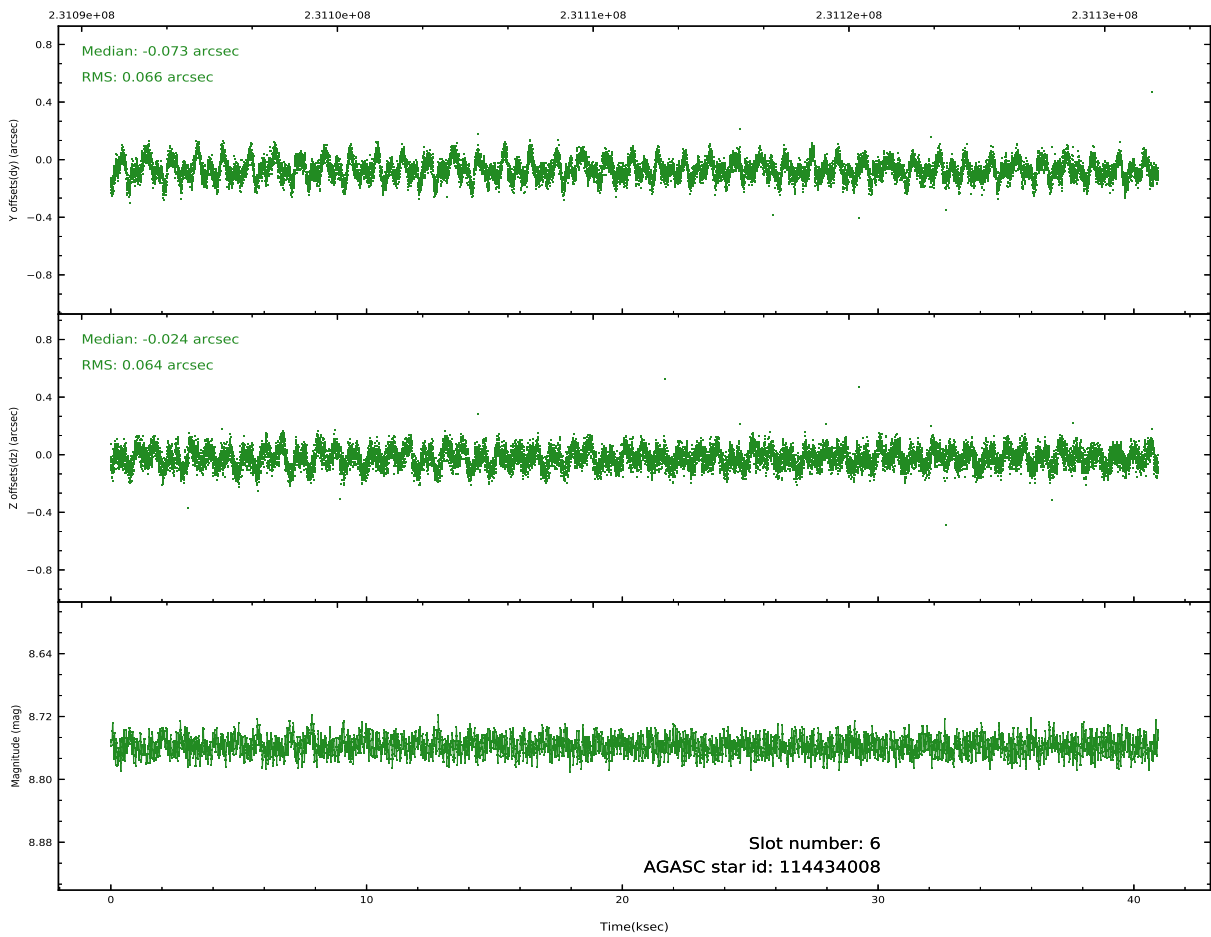
Time (s)



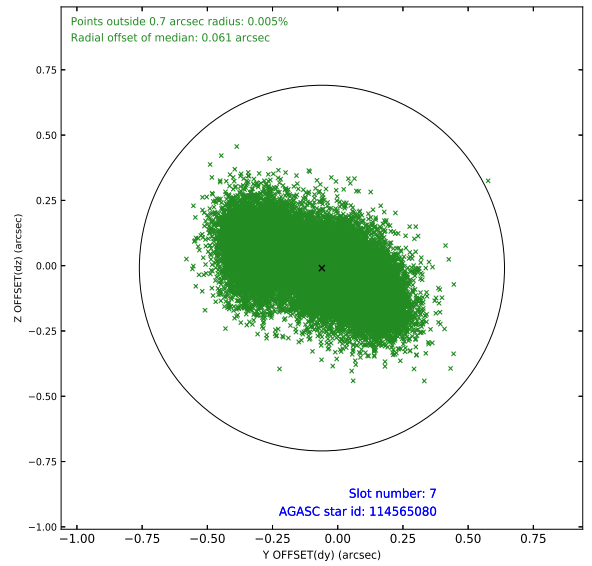
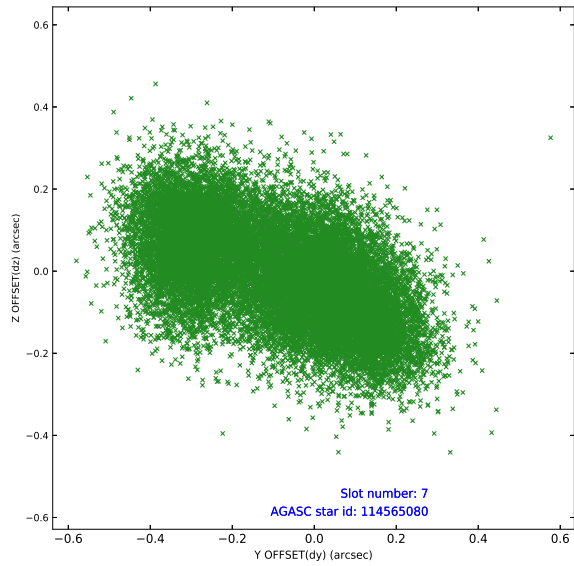
2.4.4 Slot 6



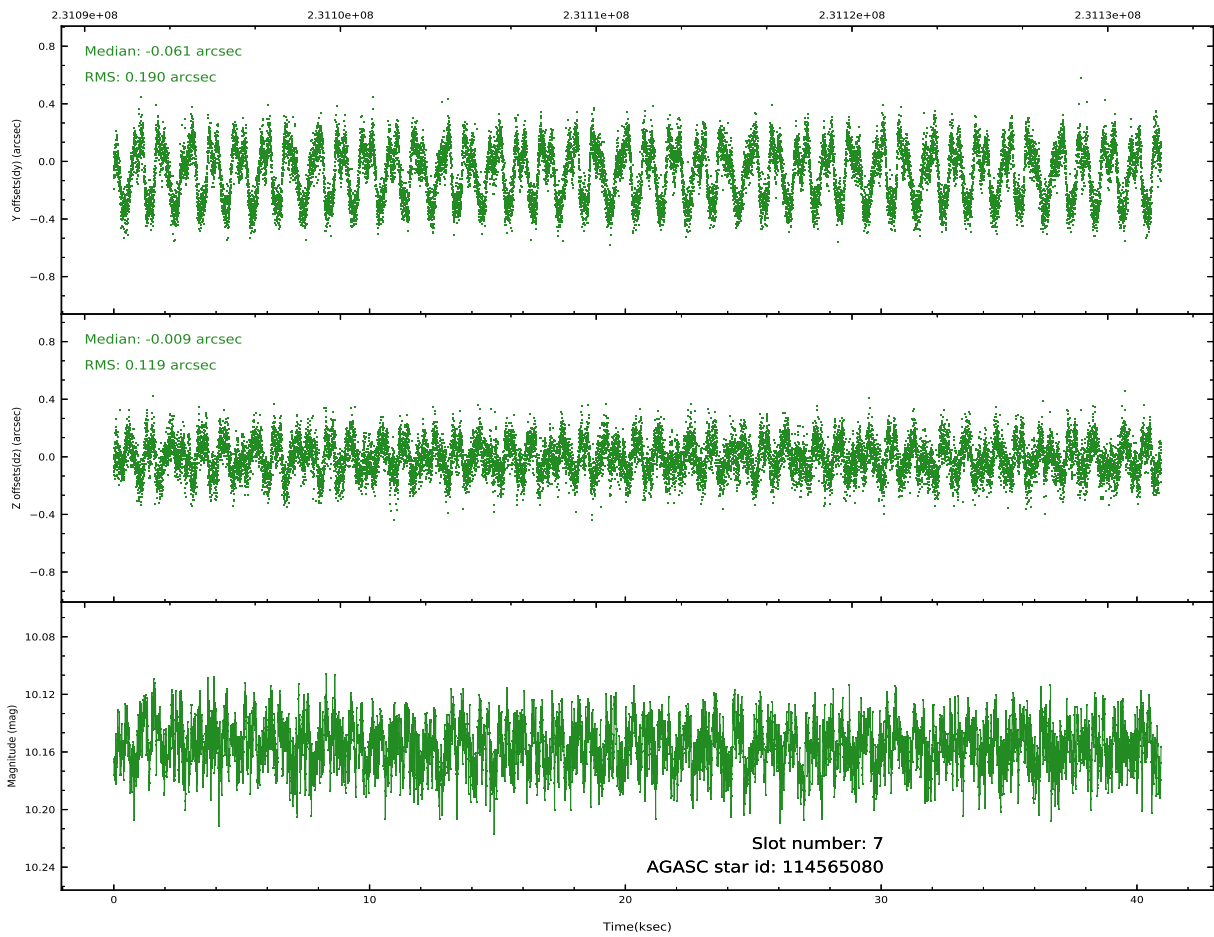
Time (s)



2.4.5 Slot 7

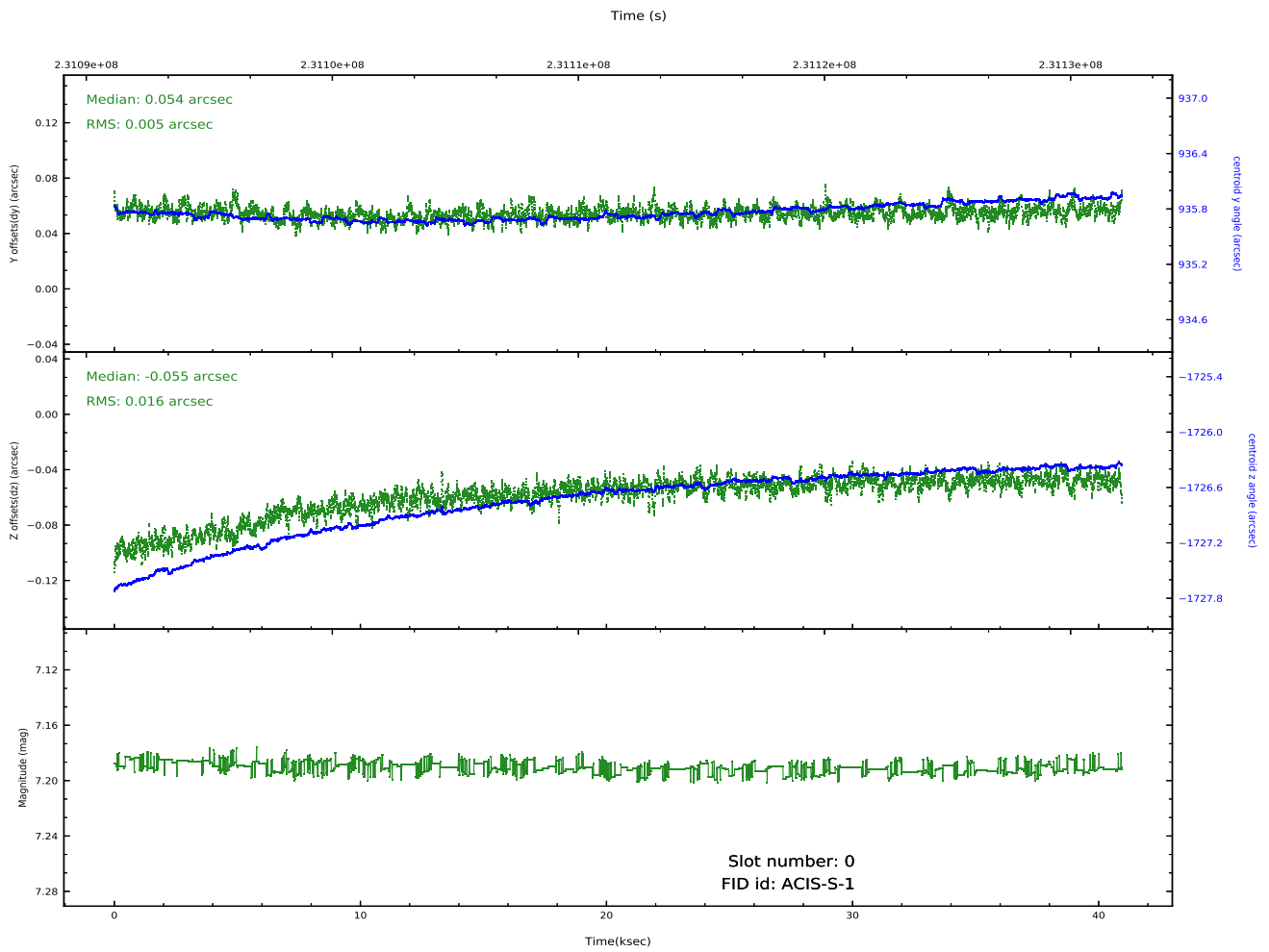
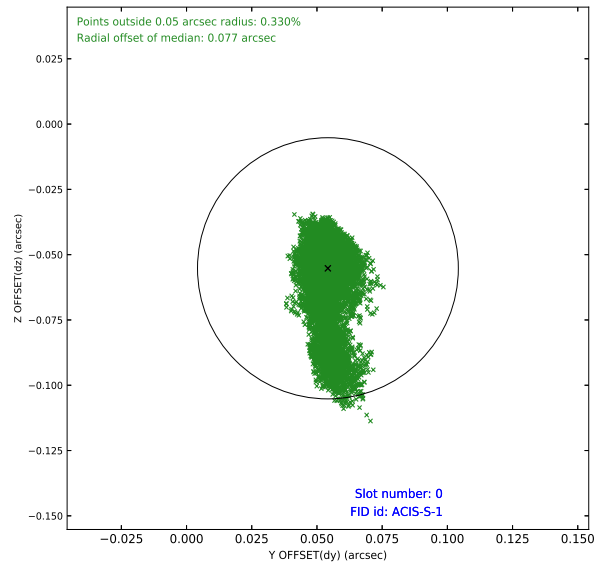
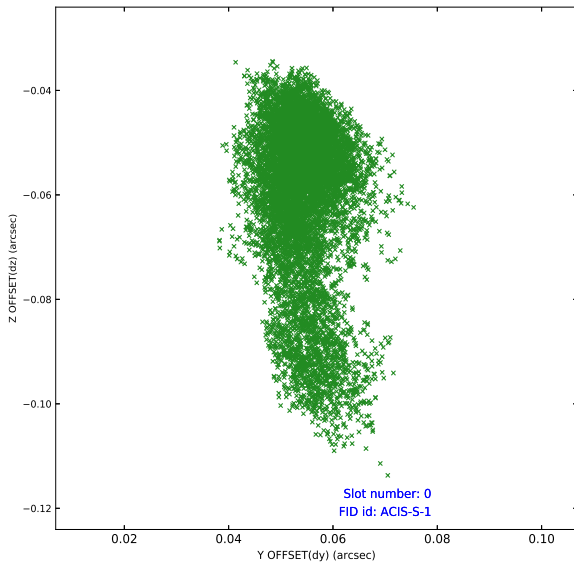


Time (s)

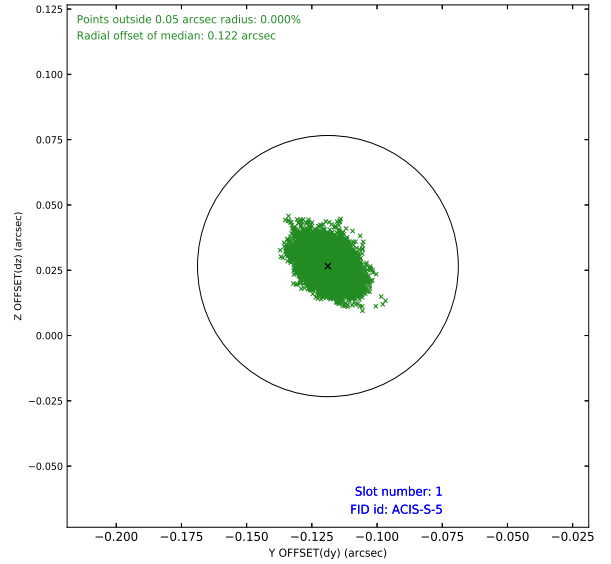
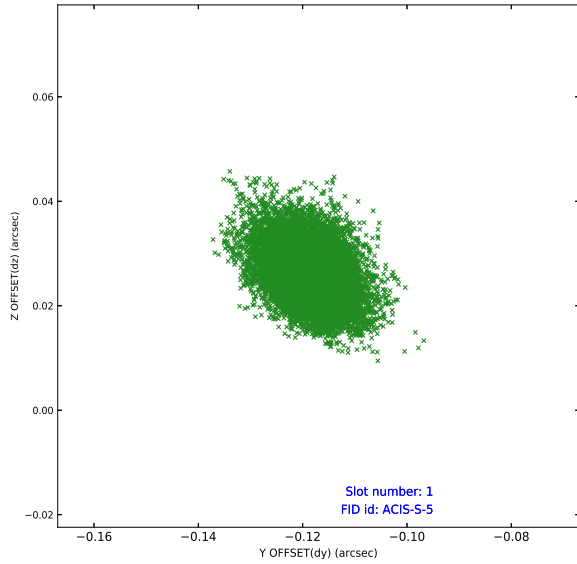


2.5 FID Slots

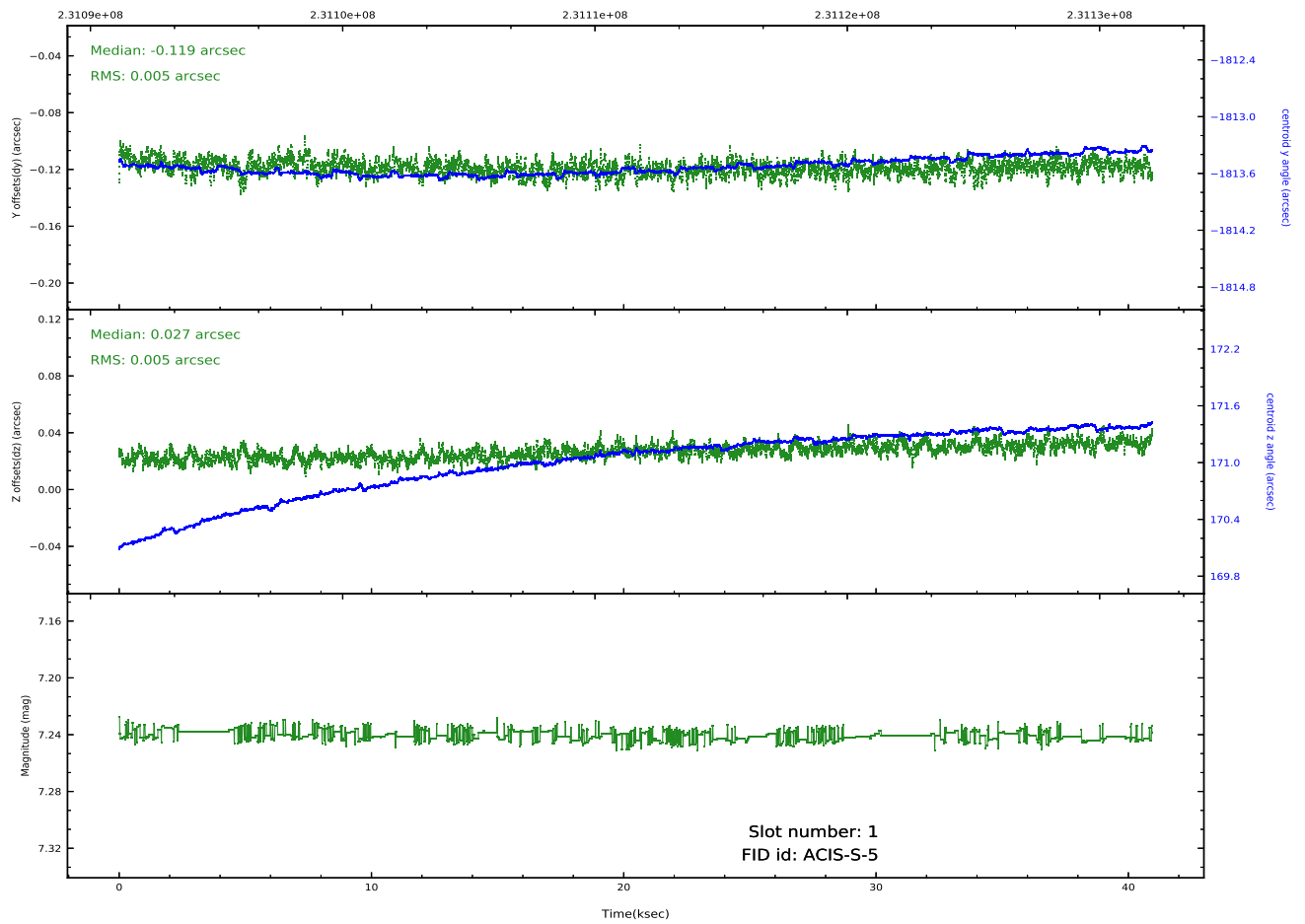
2.5.1 Slot 0



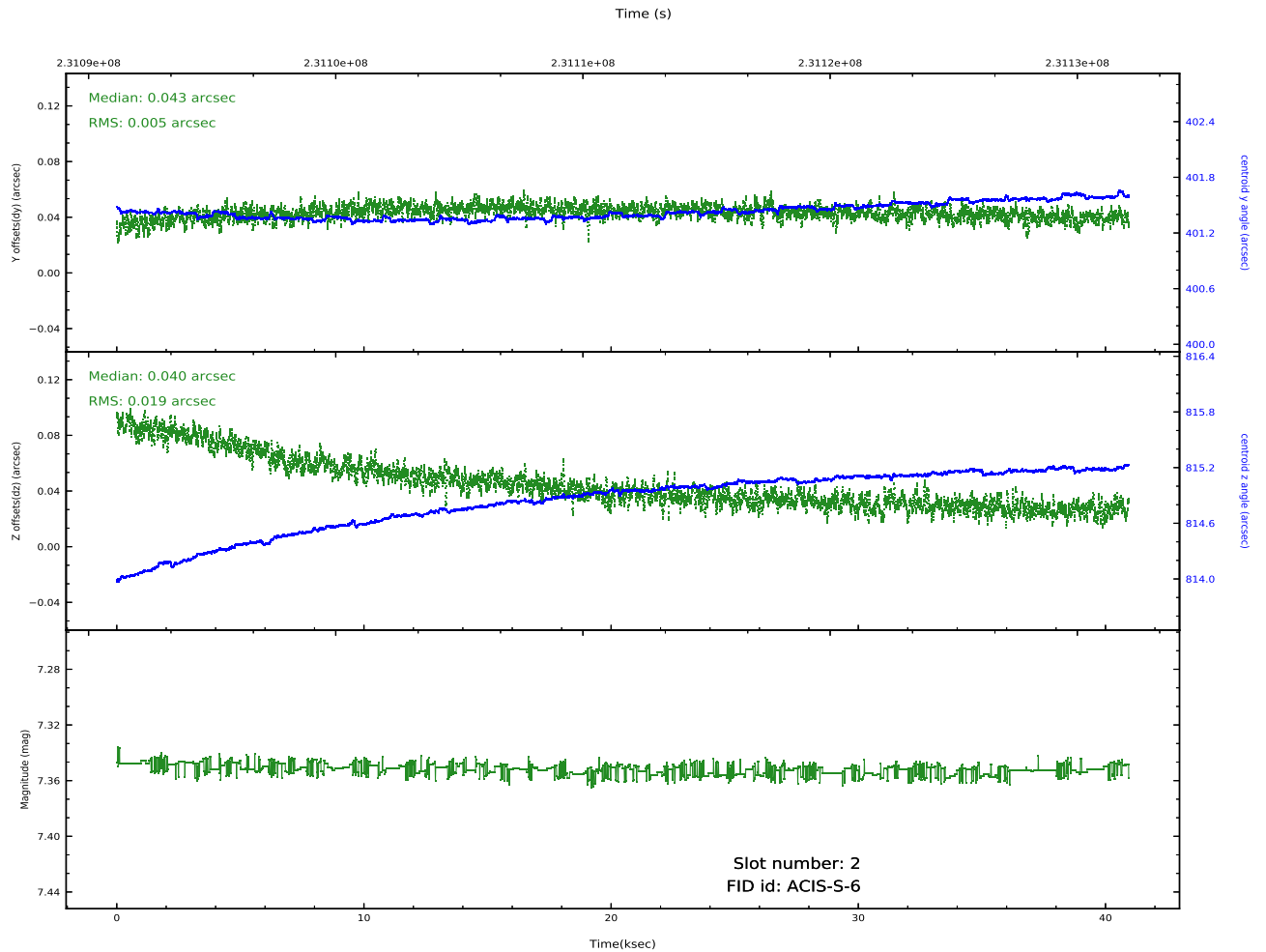
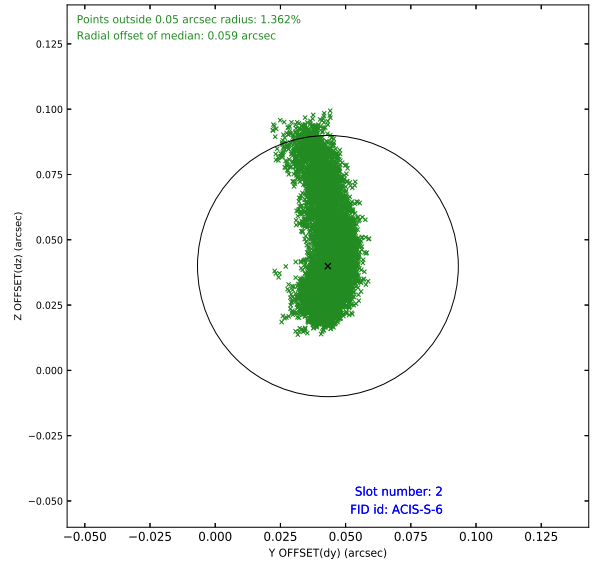
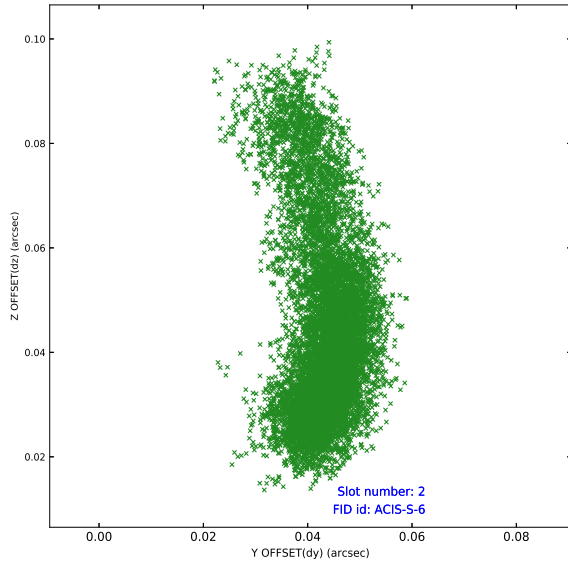
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	40.03339

A.2 Comments