

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 4992 - L2 Version 4
Chandra X-Ray Center

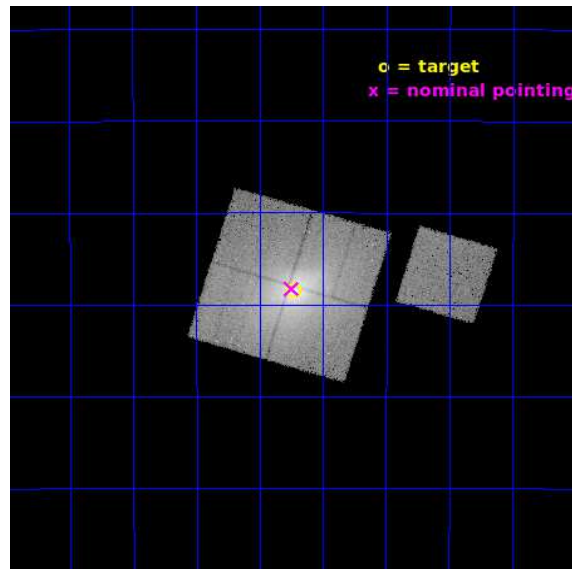
L2 Processing Date : Sep 26 2020

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1 Front

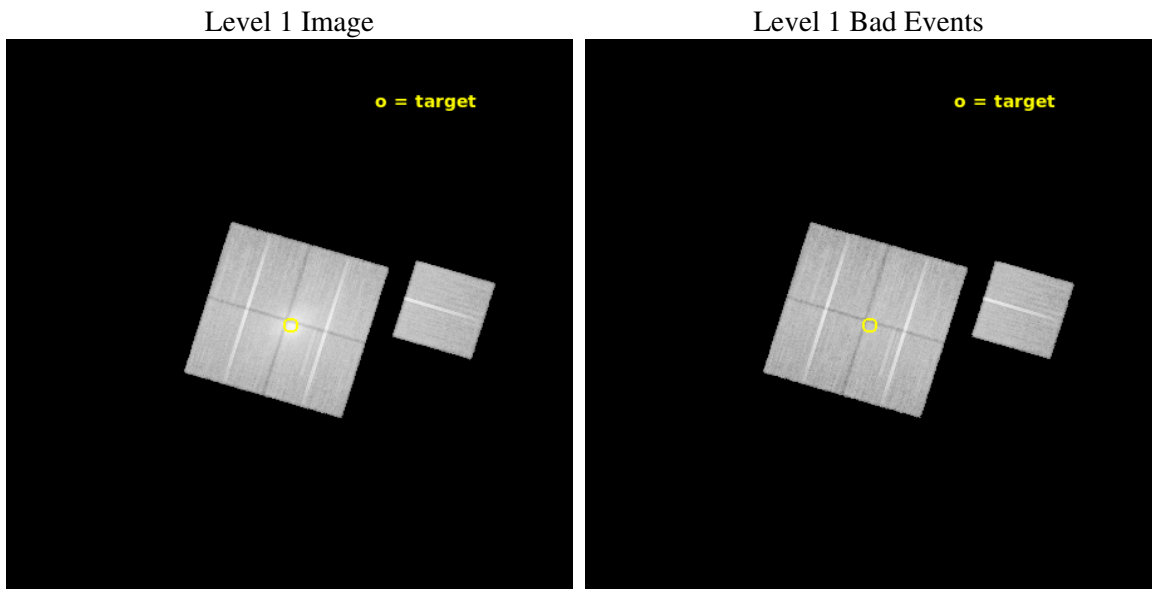
seq_num	800435	Sequence number
obs_id	4992	Observation id
title	A detailed study of entropy in low mass galaxy clusters	Proposal t
observer	Dr Edward Lloyd-Davies	Principal investigator
object	Abell 4038	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	356.932083	Observer's specified target RA [deg]
dec_targ	-28.1415	Observer's specified target Dec [deg]
ra_nom	356.93622652336	Nominal RA [deg]
dec_nom	-28.137876800488	Nominal Dec [deg]
roll_nom	106.89033563516	Nominal Roll [deg]
revision	4	Processing version of data
ontime	33972.869786173	Sum of GTIs [s]
livetime	33528.989231954	Livetime [s]
ontime0	33969.605676025	Sum of GTIs [s]
ontime1	33969.646735907	Sum of GTIs [s]
ontime2	33957.123974741	Sum of GTIs [s]
ontime3	33972.869786173	Sum of GTIs [s]
ontime6	33972.70562616	Sum of GTIs [s]
l2events	271226	Number of level 2 events



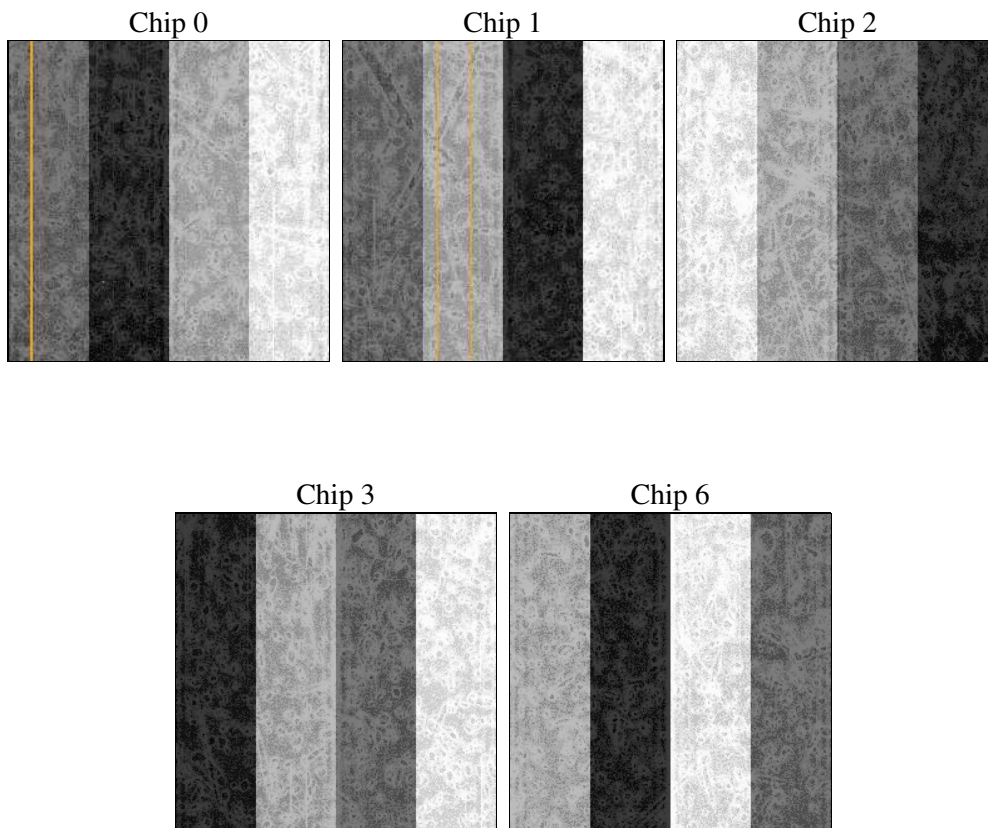
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	33921.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	33972.869786173	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	33969.605676025	Sum of GTIs [s]
date	2020-09-26T21:01:46	Date and time of file creation	ontime1	33969.646735907	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	33957.123974741	Sum of GTIs [s]
			ontime3	33972.869786173	Sum of GTIs [s]
			ontime6	33972.70562616	Sum of GTIs [s]
			l1events	1259782	Number of level 1 events

2.1.4 Events

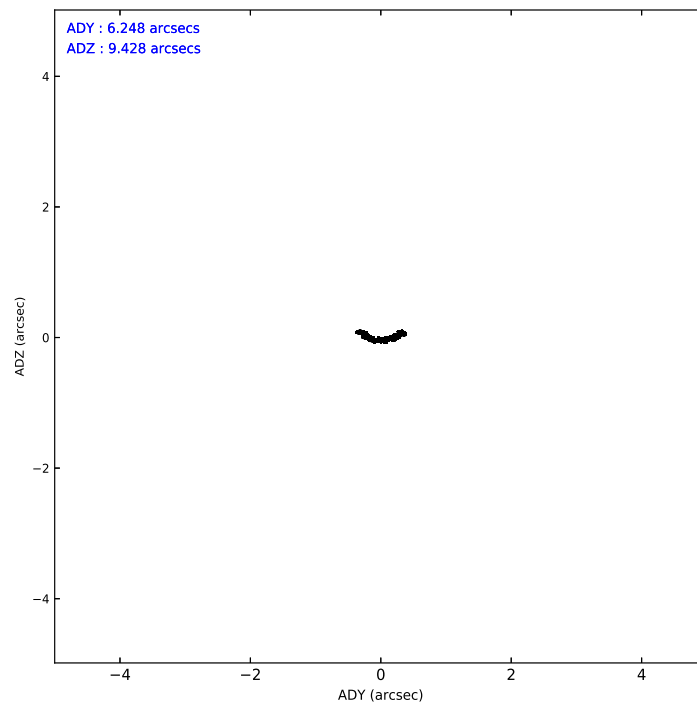
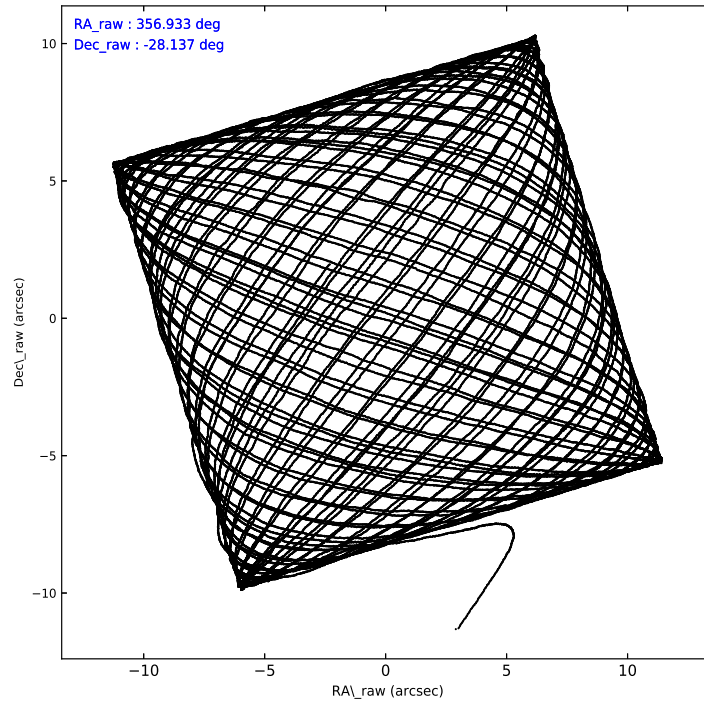
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	219000	249669	288125	285520	217468
rejected events	178385	178659	213708	195213	193453
rejected %	81%	71%	74%	68%	88%

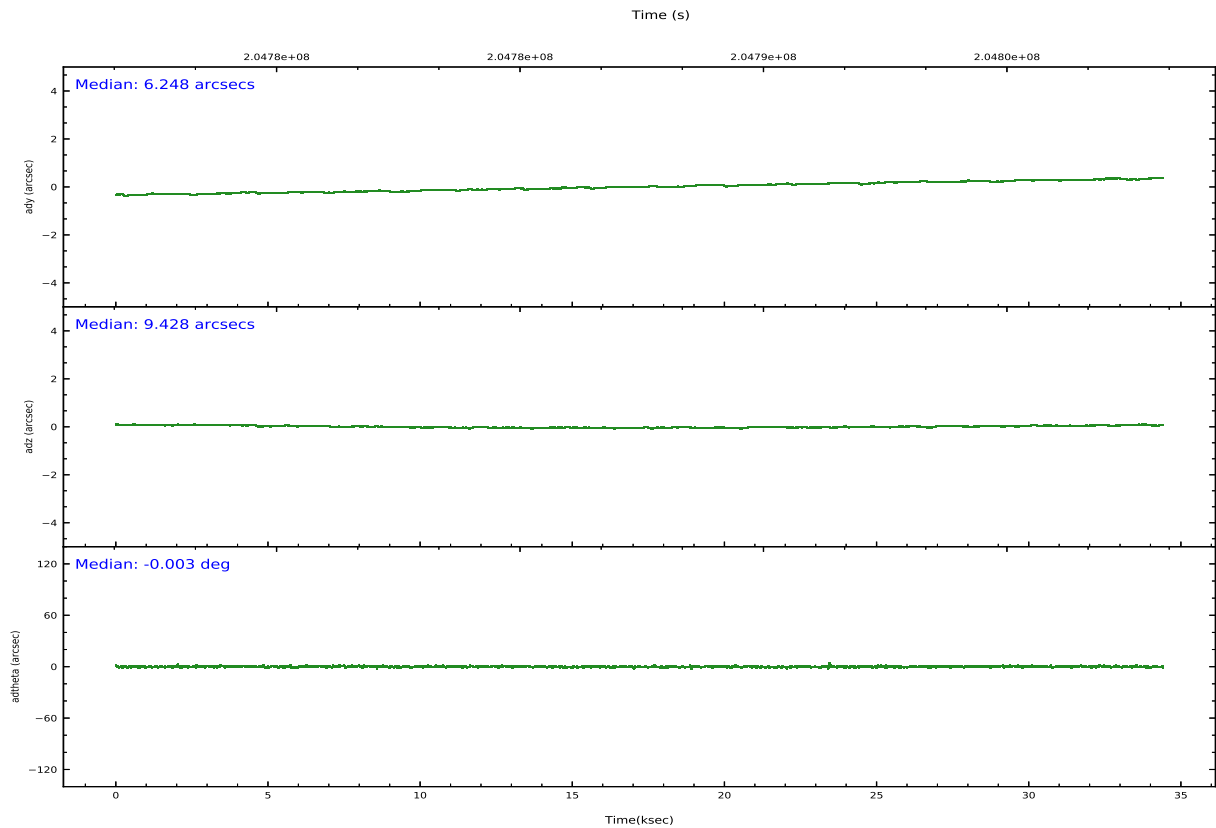
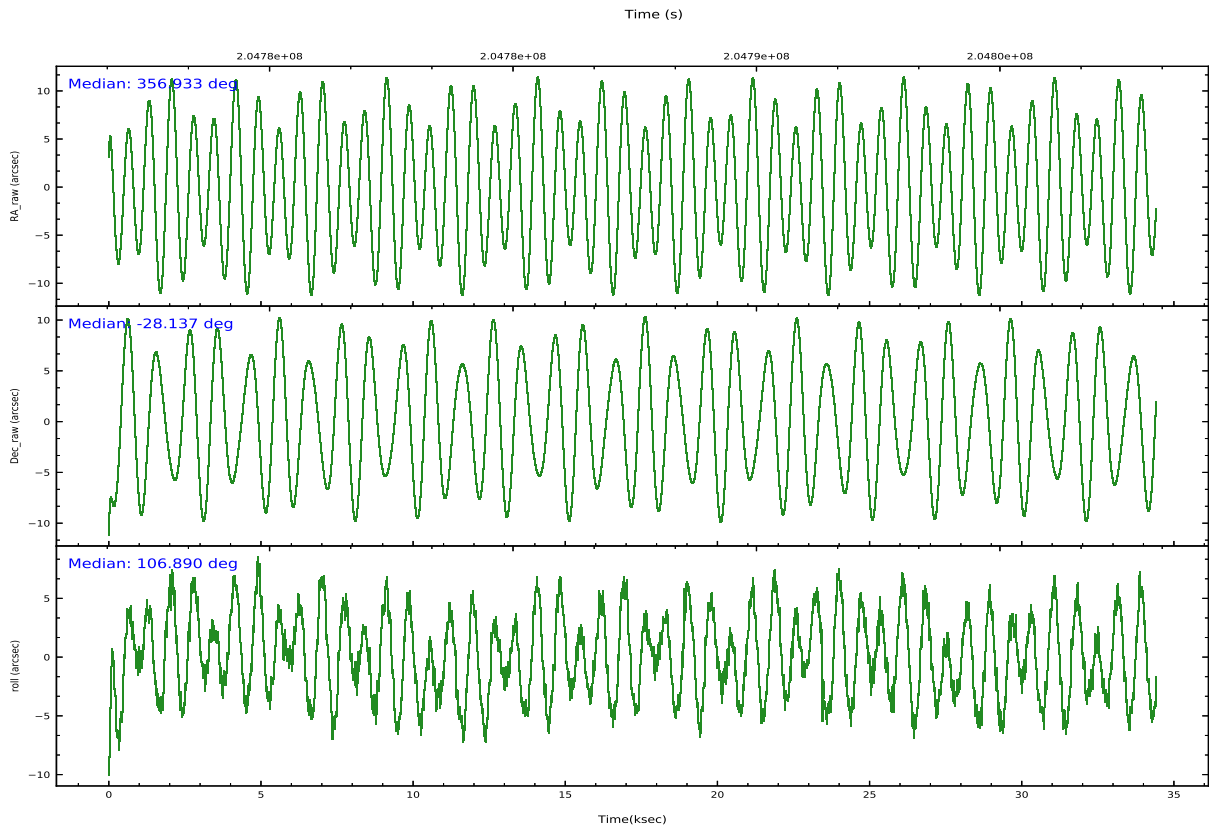
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	23500	47808	52546	66126	9476
	10%	19%	18%	23%	4%
grade 1 events	186	271	405	459	92
	0%	0%	0%	0%	0%
grade 2 events	6805	9798	9581	10647	4922
	3%	3%	3%	3%	2%
grade 3 events	3112	3982	3703	4211	2551
	1%	1%	1%	1%	1%
grade 4 events	2733	3833	3735	4131	2515
	1%	1%	1%	1%	1%
grade 5 events	7475	7935	7467	8673	8401
	3%	3%	2%	3%	3%
grade 6 events	4469	5603	4860	5198	4552
	2%	2%	1%	1%	2%
grade 7 events	170720	170439	205828	186075	184959
	77%	68%	71%	65%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-01236	ACIS-01236	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	356.955406	356.93622652336	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.155521	-28.137876800488	Alternating exposures requested	N	N
[deg] Pointing Roll	106.693856	106.89033563516	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	204771213.184000	204770126.46505			
Observation start date	2004-06-28T00:52:29	2004-06-28T00:35:26			
[s] Observation end time (MET)	204805134.184000	204805865.65413			
Observation end date	2004-06-28T10:17:50	2004-06-28T10:31:05			
Read mode	TIMED	TIMED			

2.3 Aspect





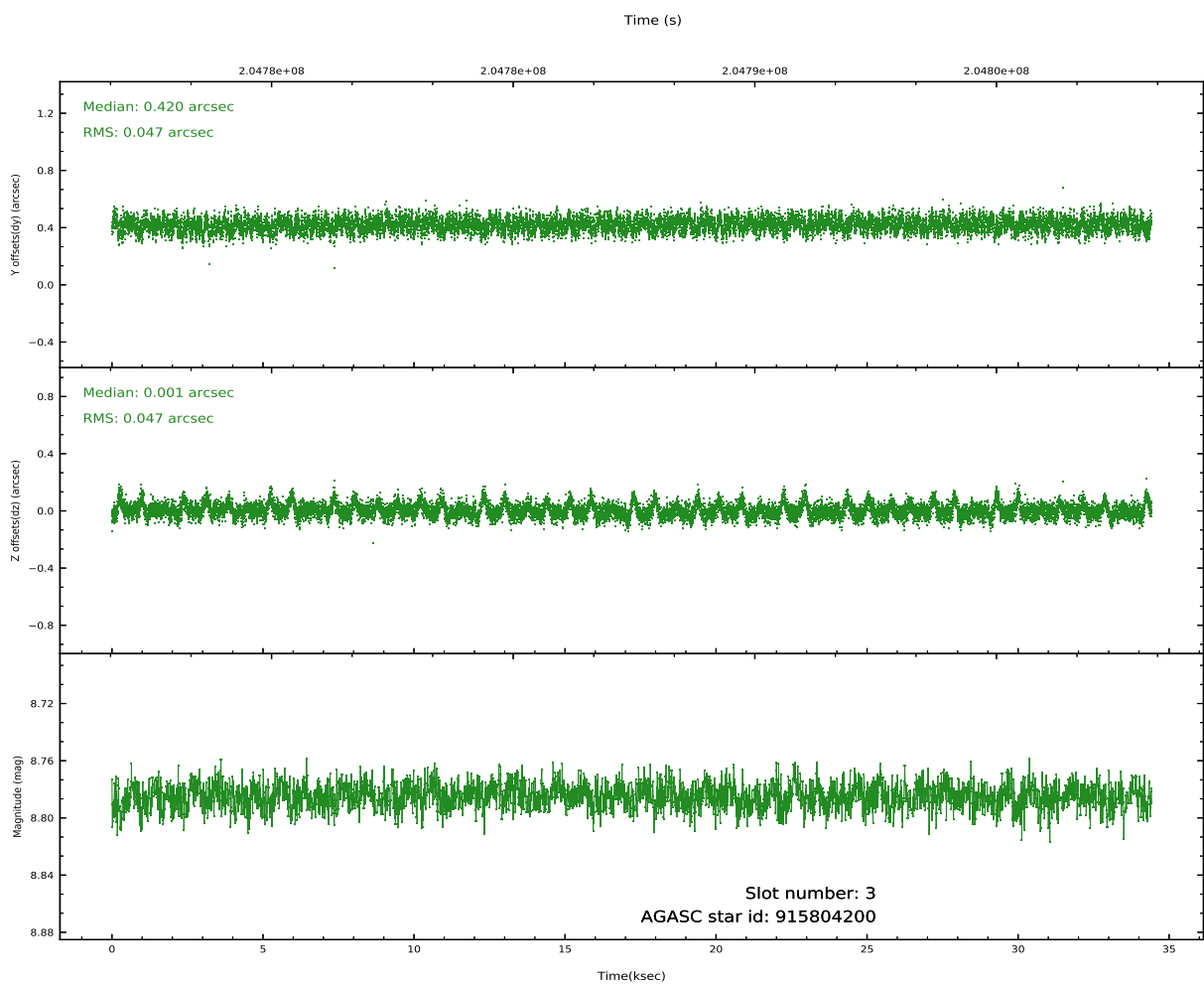
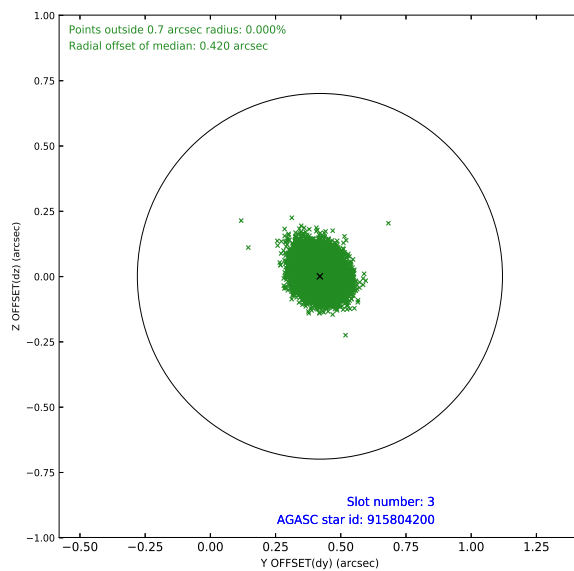
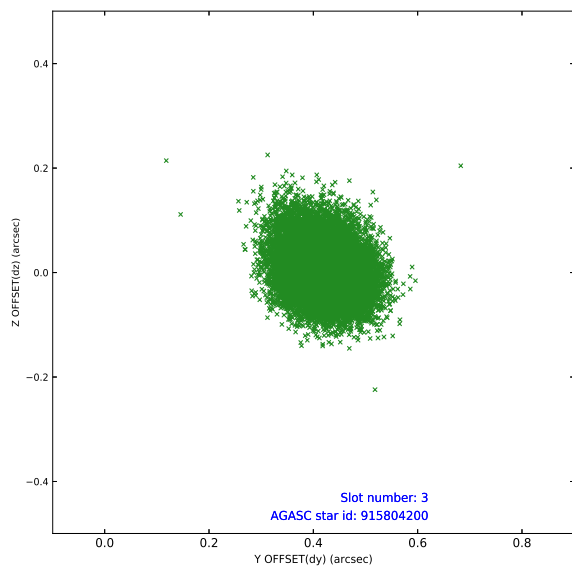
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-I-2	7.13	8394	1.000	-0.080	-0.087	0.009	0.015	0.000000	0.000000	-760.79	-839
1	FID		ACIS-I-4	7.18	8392	1.000	0.169	0.073	0.007	0.014	0.000000	0.000000	2153.47	1067
2	FID		ACIS-I-5	7.22	8394	1.000	-0.190	0.083	0.009	0.016	0.000000	0.000000	-1814.70	1064
3	GUIDE	used	915804200	8.79	16787	1.000	0.420	0.001	0.070	0.115	356.699199	-28.786294	-1943.09	1426
4	GUIDE	used	915806688	8.64	16779	1.000	0.278	0.158	0.062	0.099	357.088845	-27.897504	767.57	-673
5	GUIDE	used	915807248	9.94	16772	1.000	0.236	0.359	0.163	0.256	357.192532	-27.548911	1874.45	-1351
6	GUIDE	used	915940872	8.00	16787	1.000	0.350	0.159	0.099	0.145	357.438295	-28.341635	-1083.43	-1272
7	GUIDE	used	915809360	9.01	16780	1.000	-1.276	-0.687	0.084	0.133	357.210134	-28.120770	-114.23	-810

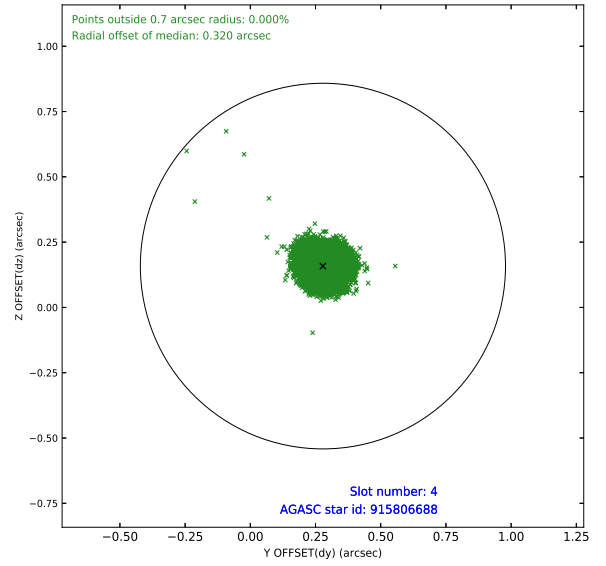
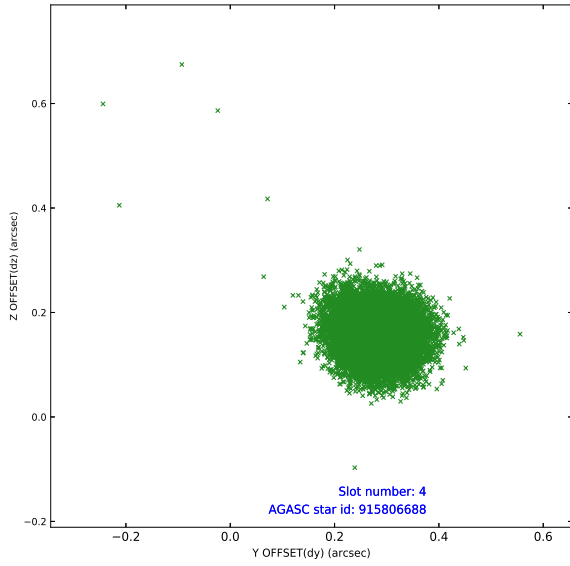
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2.4 Star Slots

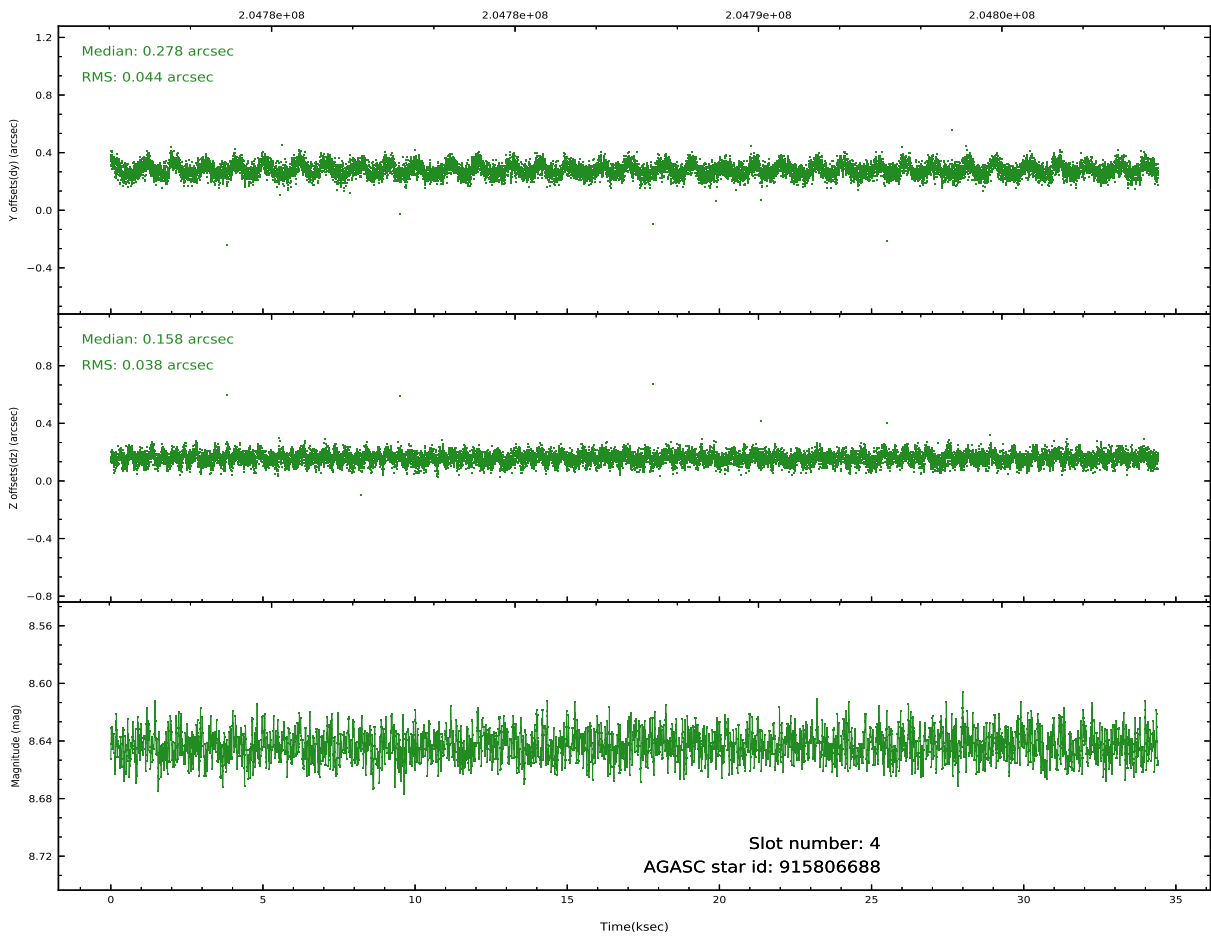
2.4.1 Slot 3



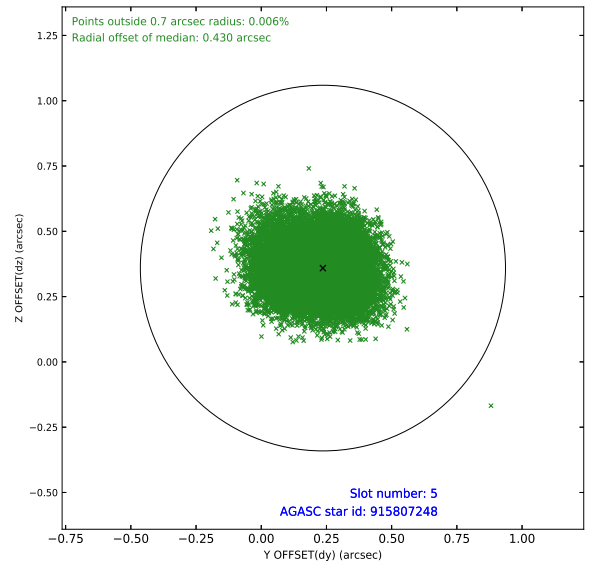
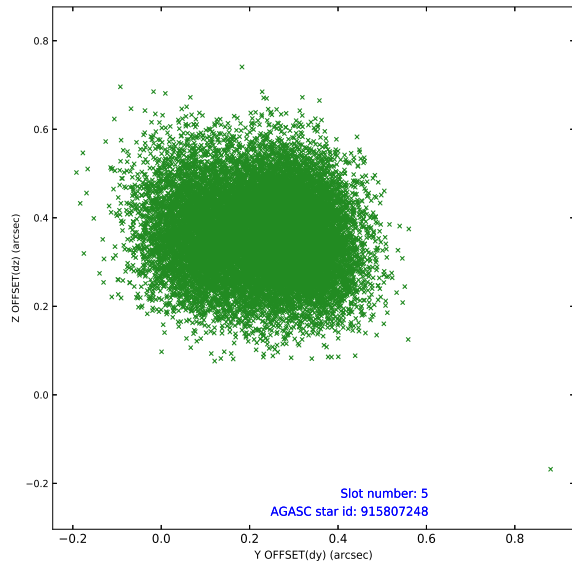
2.4.2 Slot 4



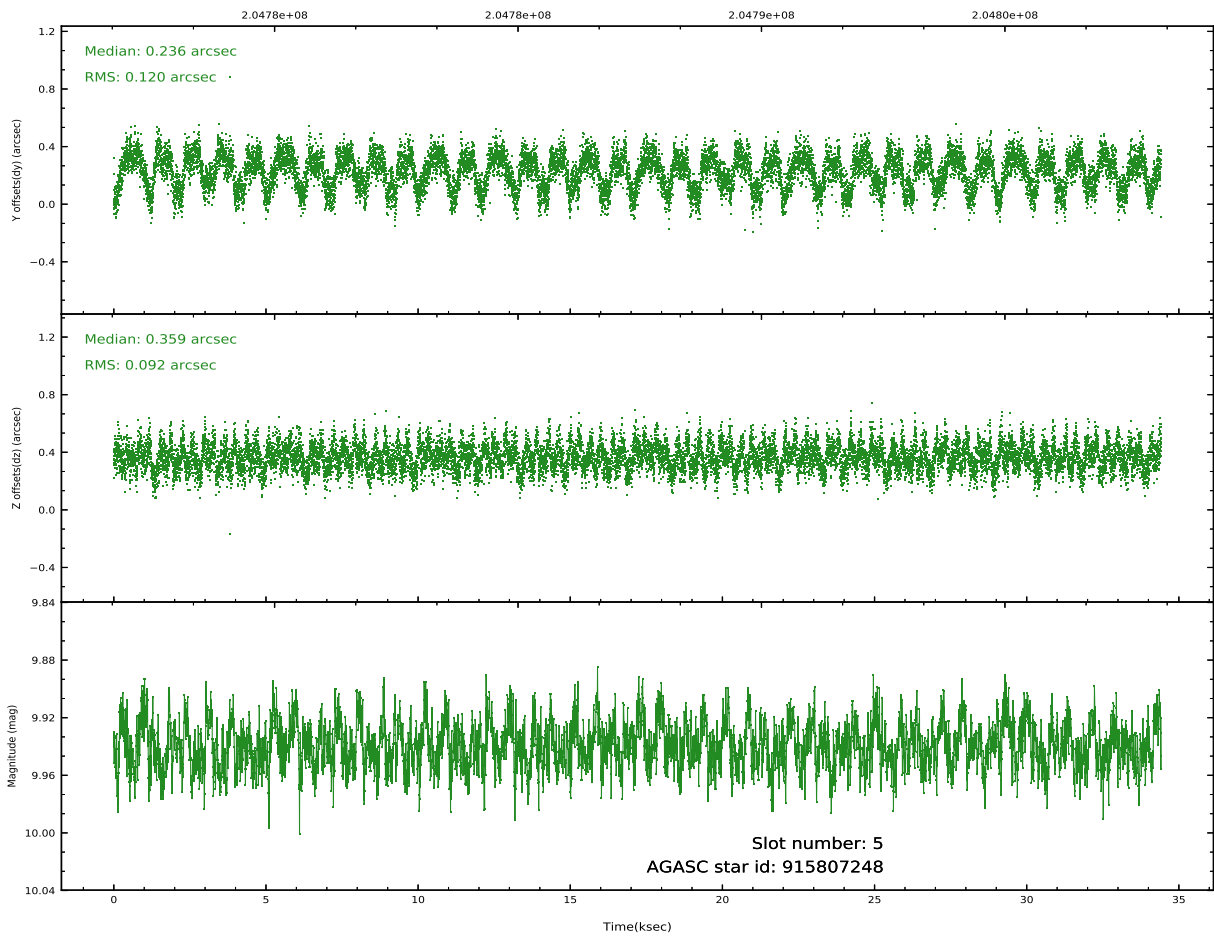
Time (s)



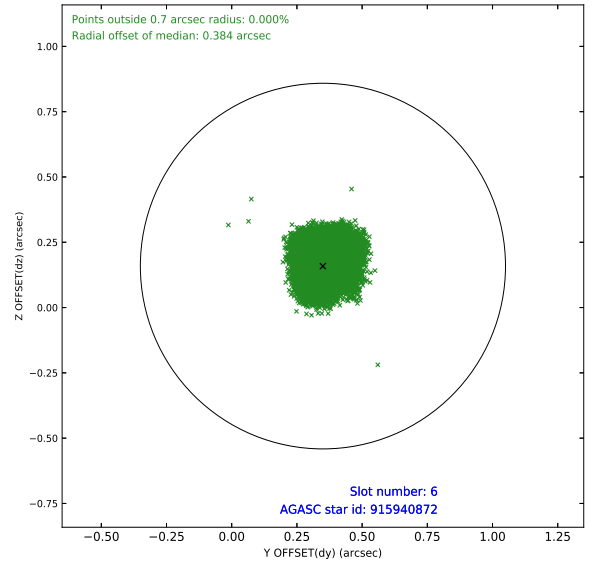
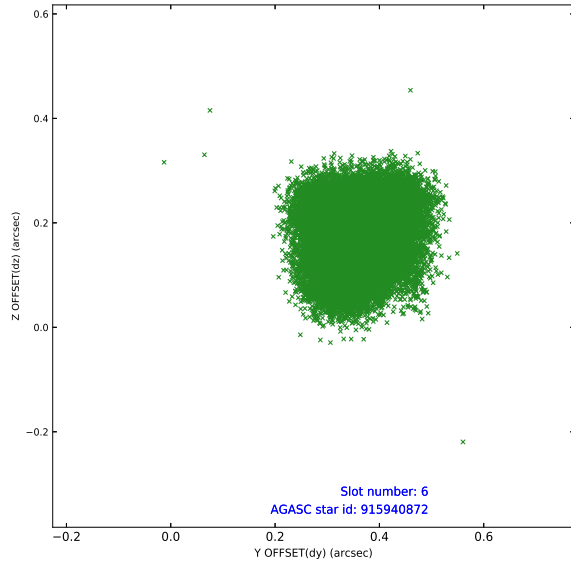
2.4.3 Slot 5



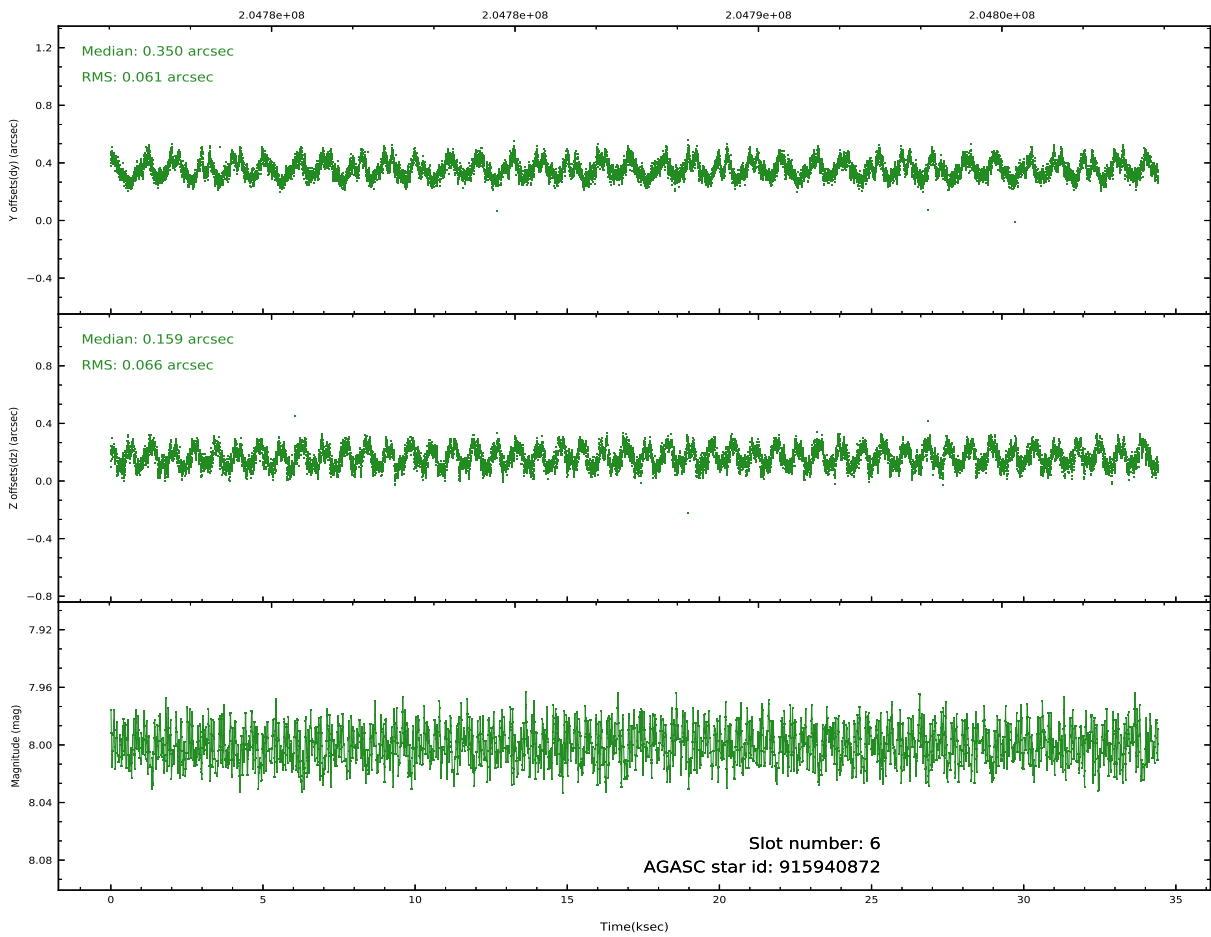
Time (s)



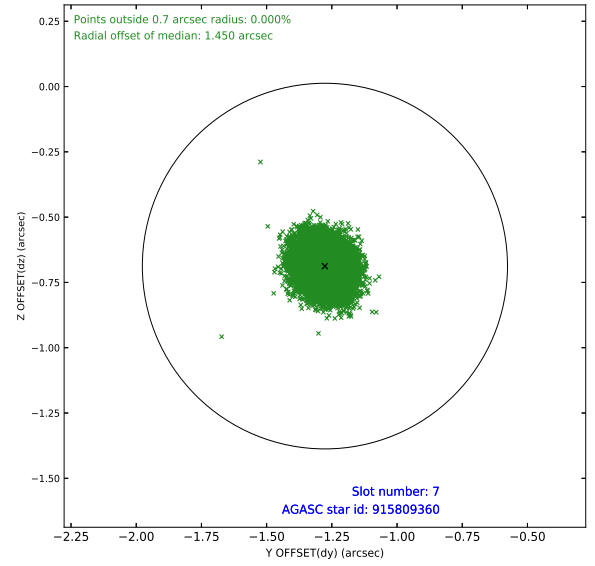
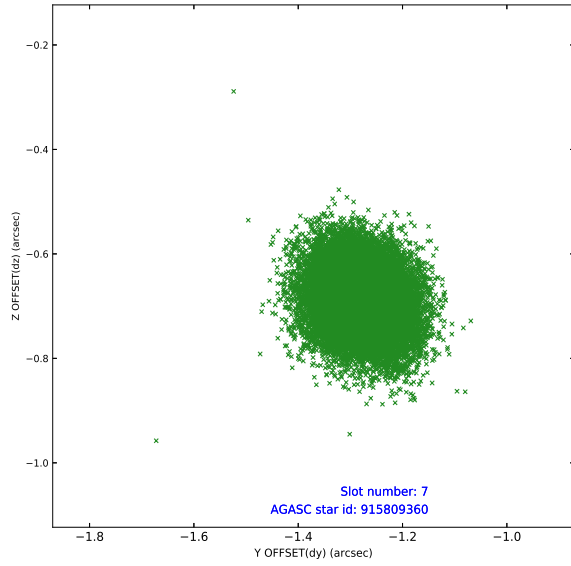
2.4.4 Slot 6



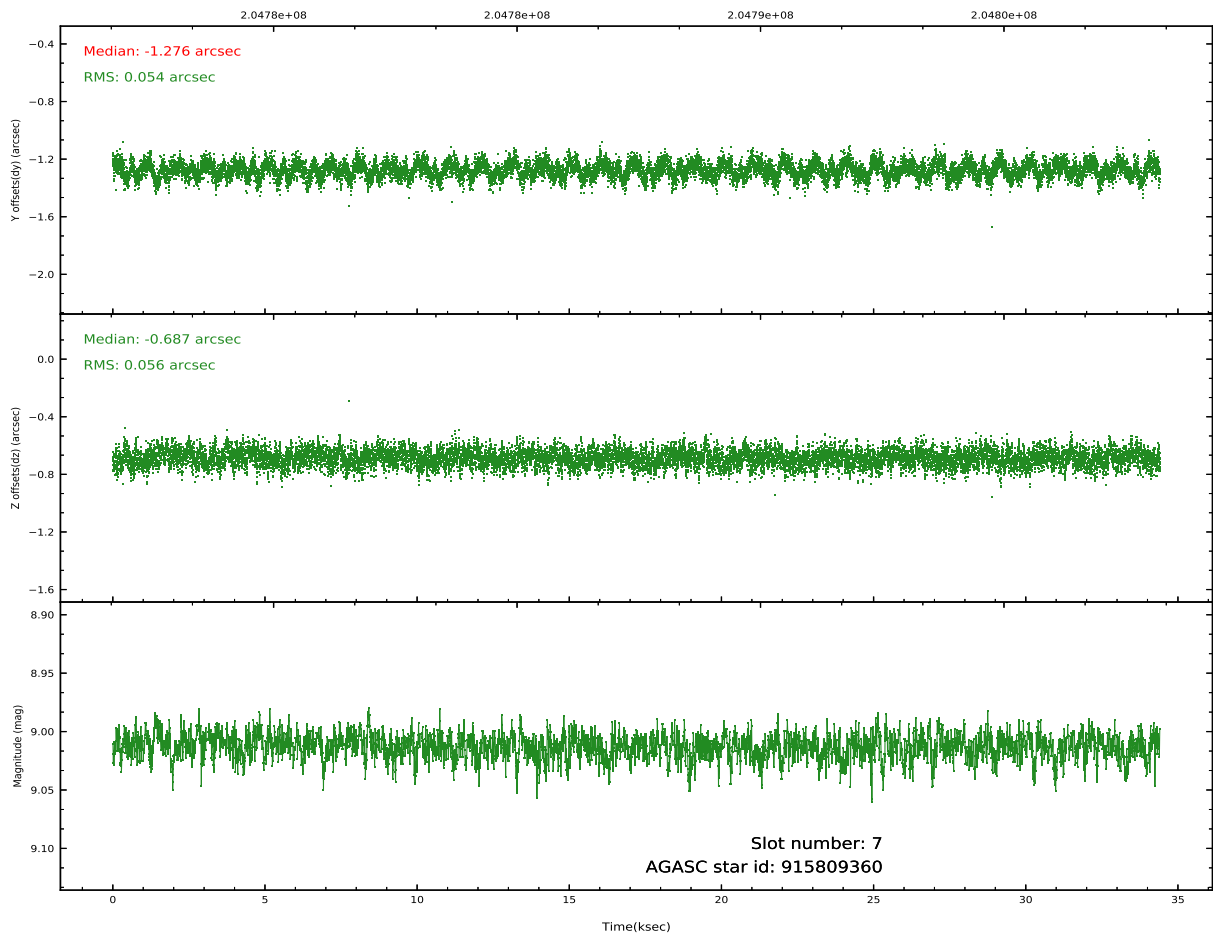
Time (s)



2.4.5 Slot 7

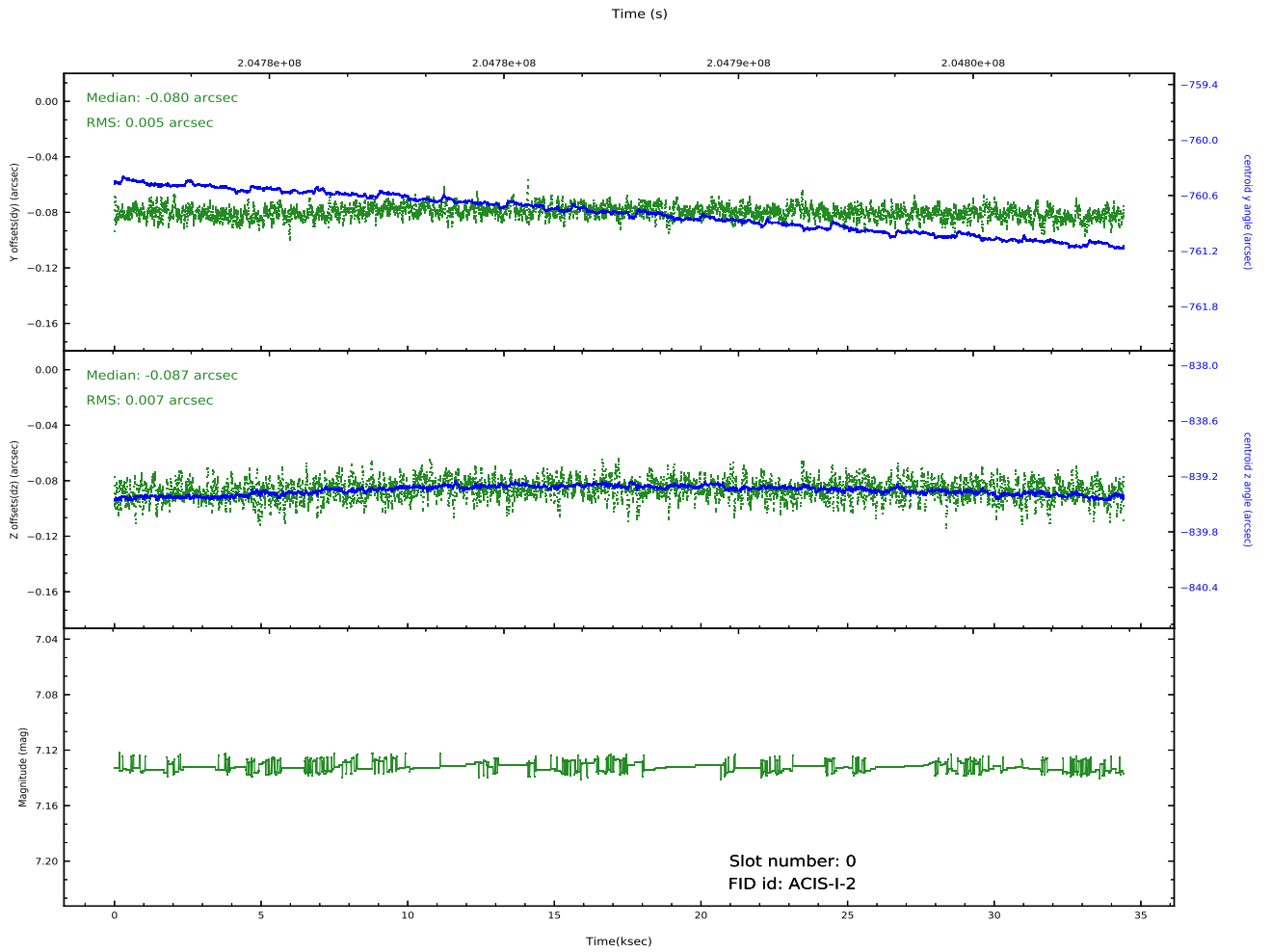
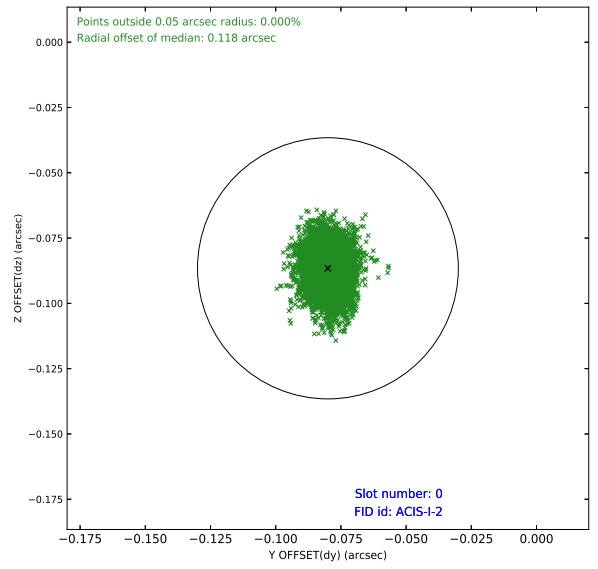
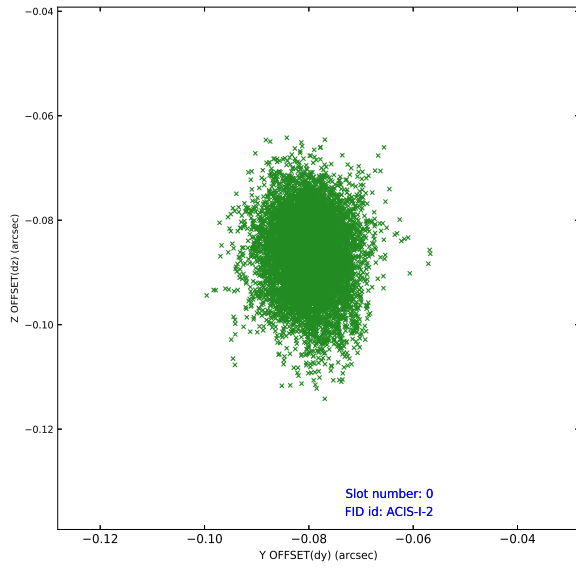


Time (s)

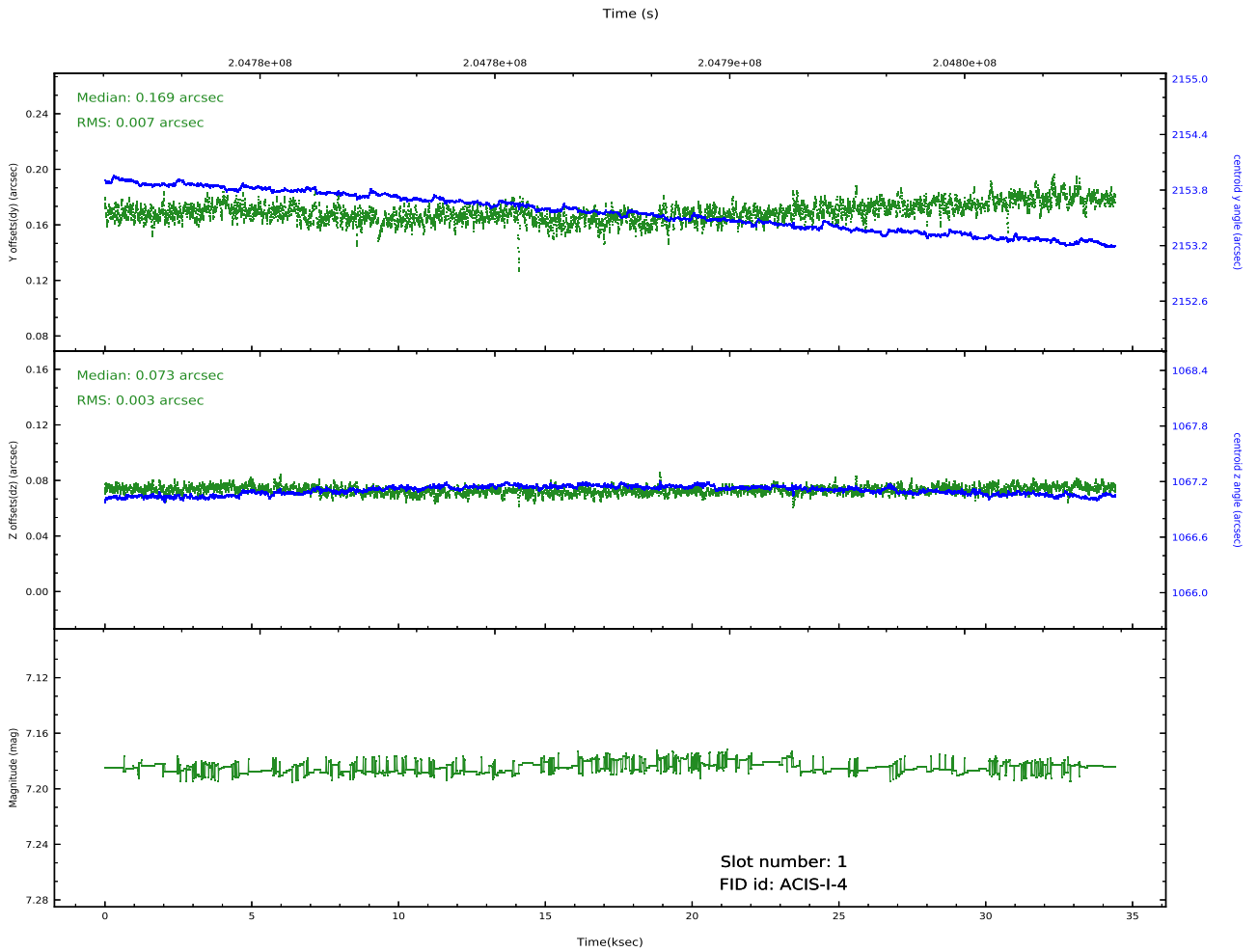
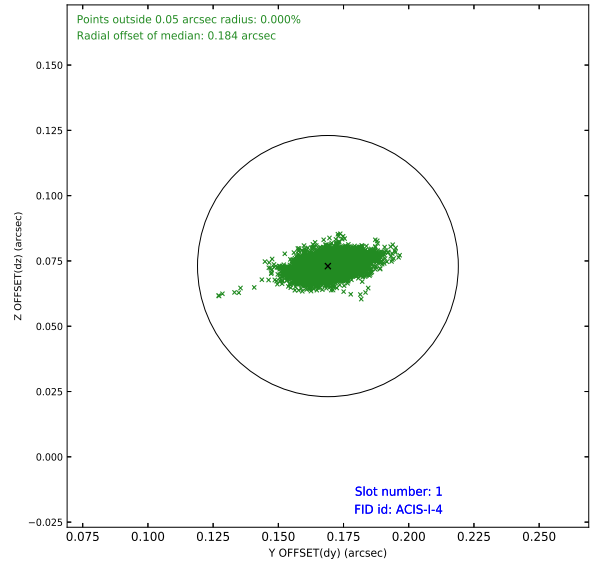
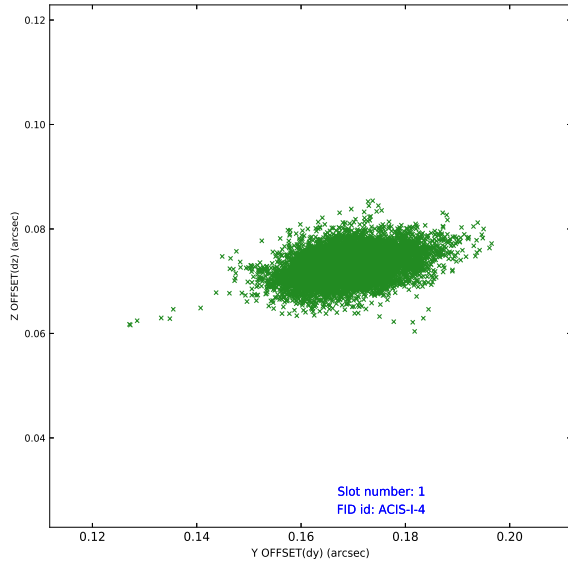


2.5 FID Slots

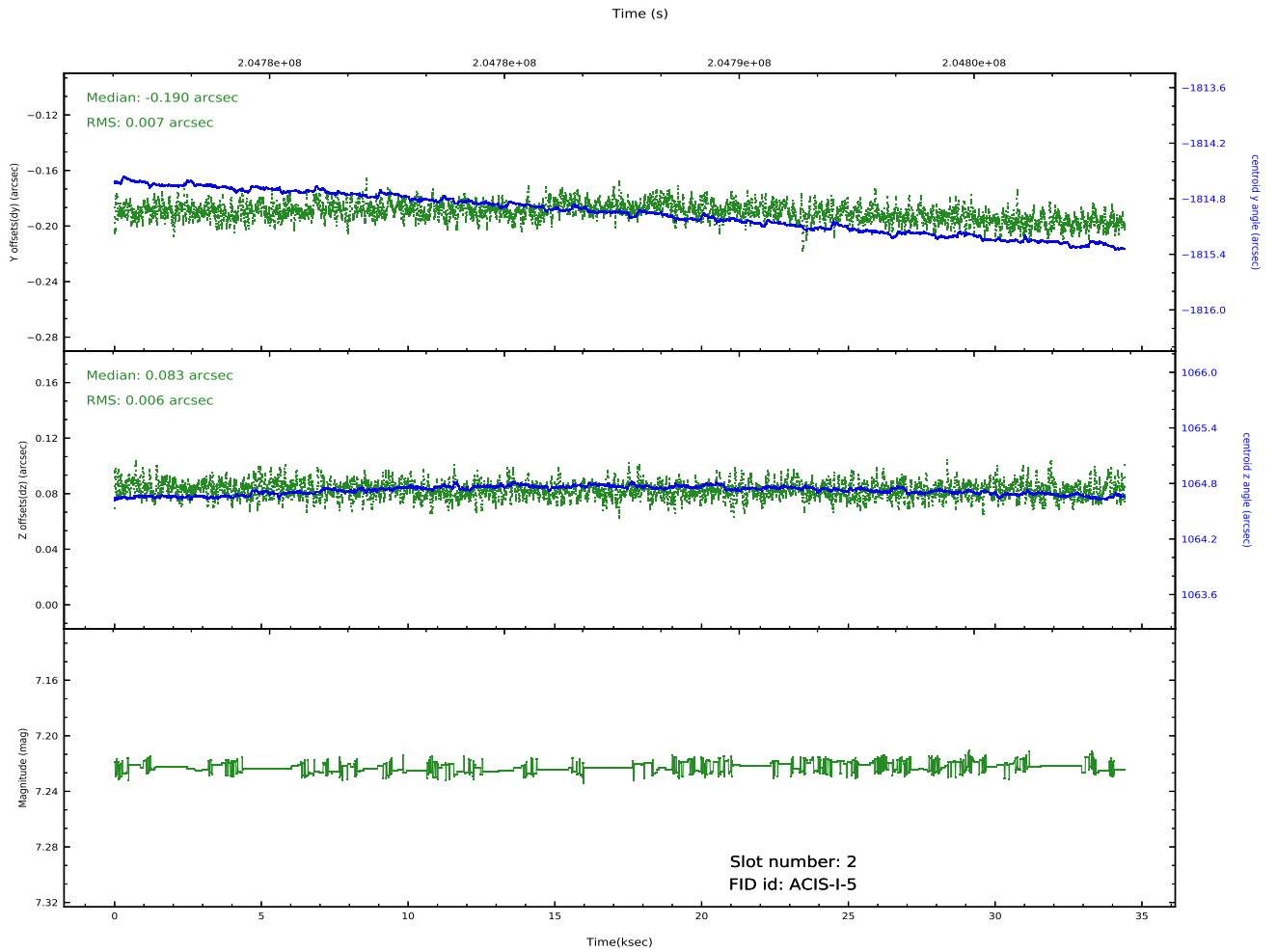
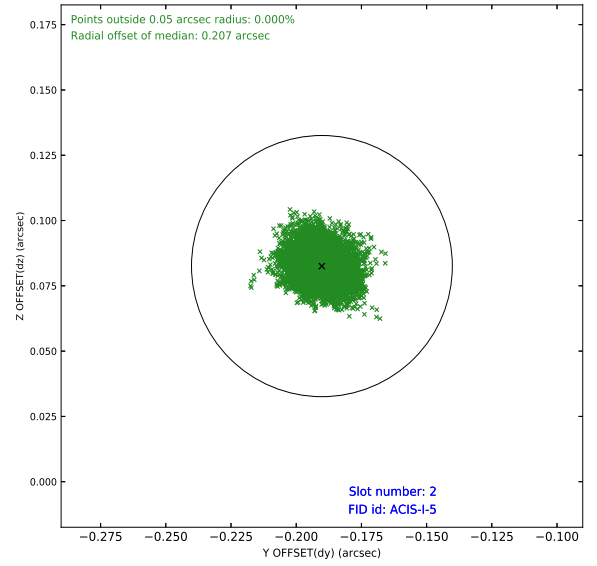
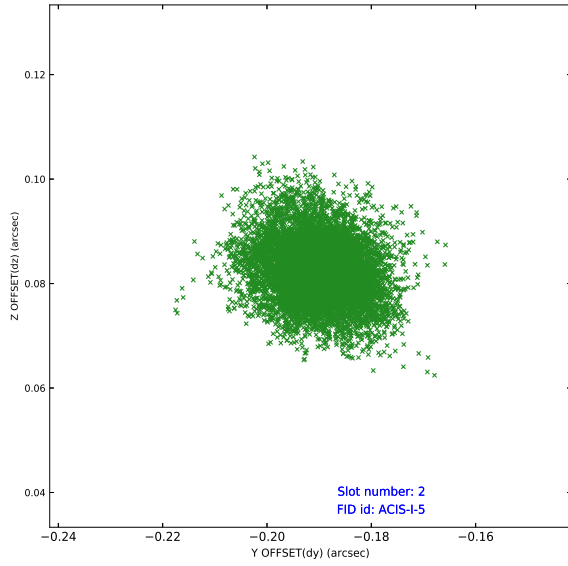
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.09.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	33.972

A.2 Comments