

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6356 - L2 Version 4
Chandra X-Ray Center

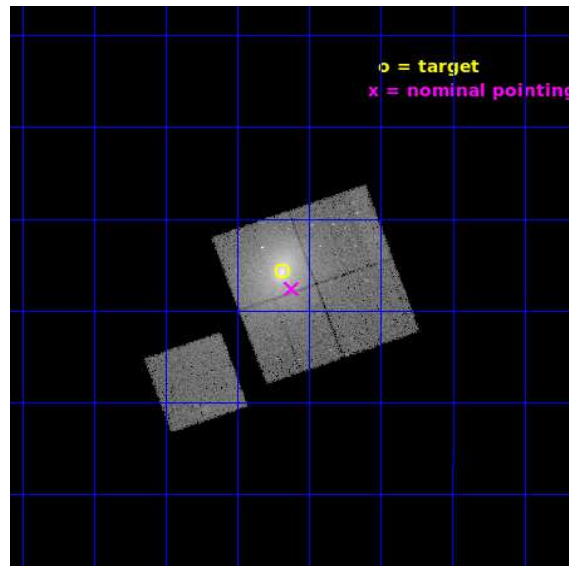
L2 Processing Date : Oct 9 2020

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1 Front

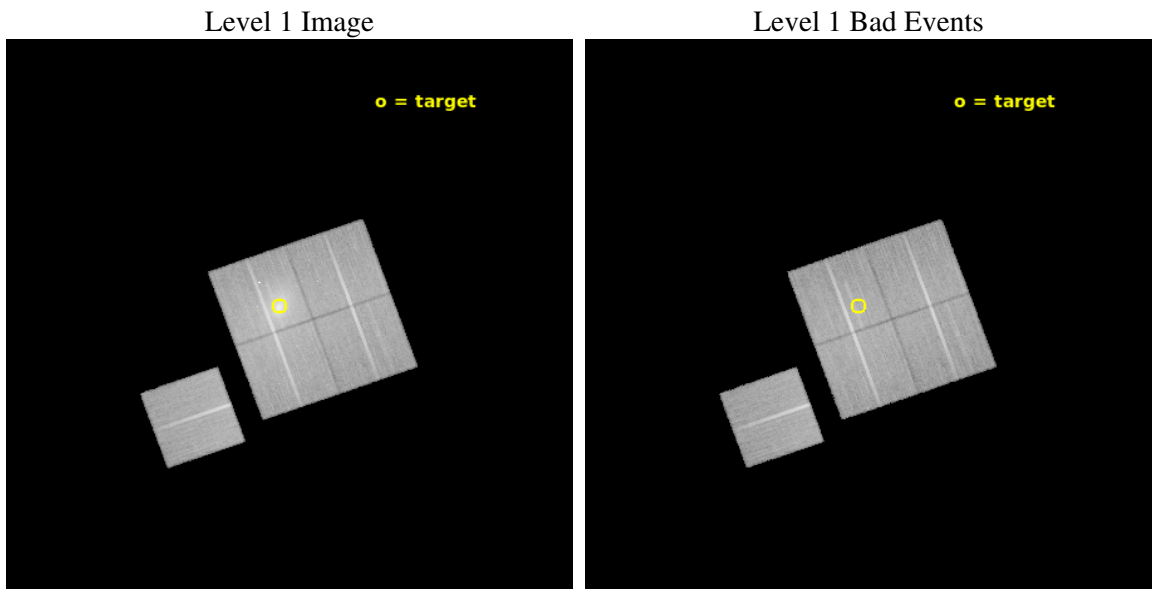
seq_num	800535	Sequence number
obs_id	6356	Observation id
title	A Deep Observation of a Radio-Quiet Cooling Flow	Proposal title
observer	Megan Donahue	Principal investigator
object	Abell 1650	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	194.672083	Observer's specified target RA [deg]
dec_targ	-1.761389	Observer's specified target Dec [deg]
ra_nom	194.65506776614	Nominal RA [deg]
dec_nom	-1.793122351123	Nominal Dec [deg]
roll_nom	250.29752689695	Nominal Roll [deg]
revision	4	Processing version of data
ontime	37044.917978346	Sum of GTIs [s]
livetime	36560.898852887	Livetime [s]
ontime0	37051.199928731	Sum of GTIs [s]
ontime1	37048.058968484	Sum of GTIs [s]
ontime2	37038.636017889	Sum of GTIs [s]
ontime3	37044.917978346	Sum of GTIs [s]
ontime6	37048.058968484	Sum of GTIs [s]
l2events	214093	Number of level 2 events



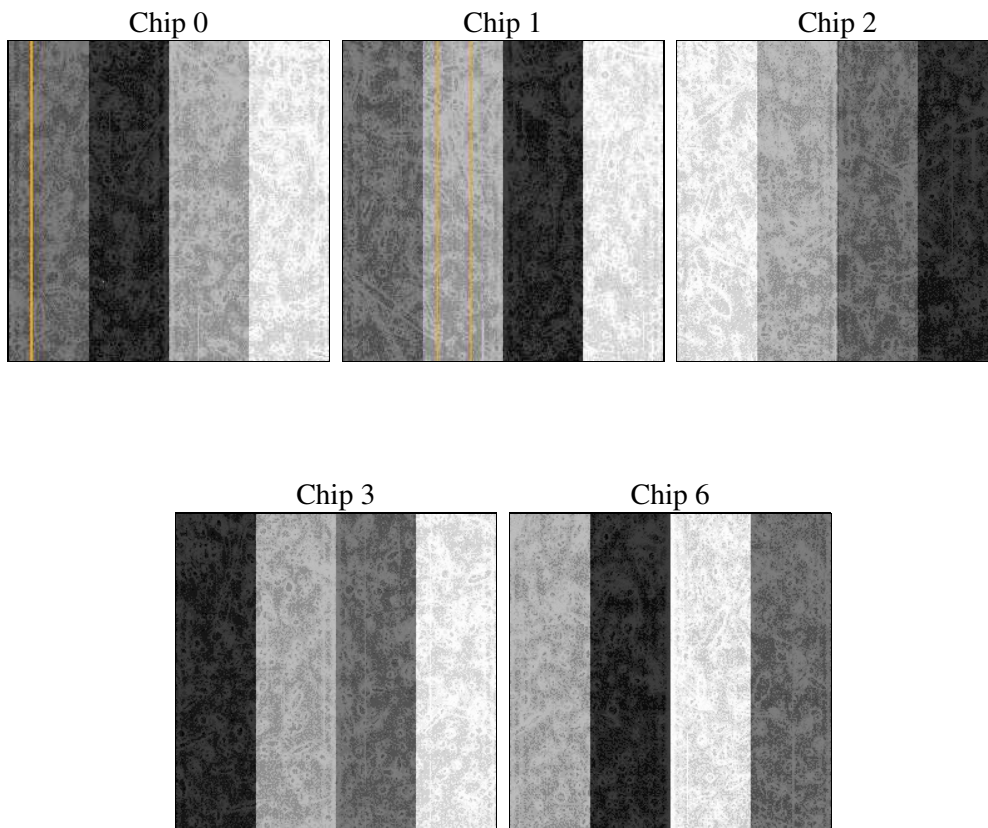
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	37000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	37044.917978346	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	37051.199928731	Sum of GTIs [s]
date	2020-10-09T18:36:04	Date and time of file creation	ontime1	37048.058968484	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	37038.636017889	Sum of GTIs [s]
			ontime3	37044.917978346	Sum of GTIs [s]
			ontime6	37048.058968484	Sum of GTIs [s]
			l1events	1214899	Number of level 1 events

2.1.4 Events

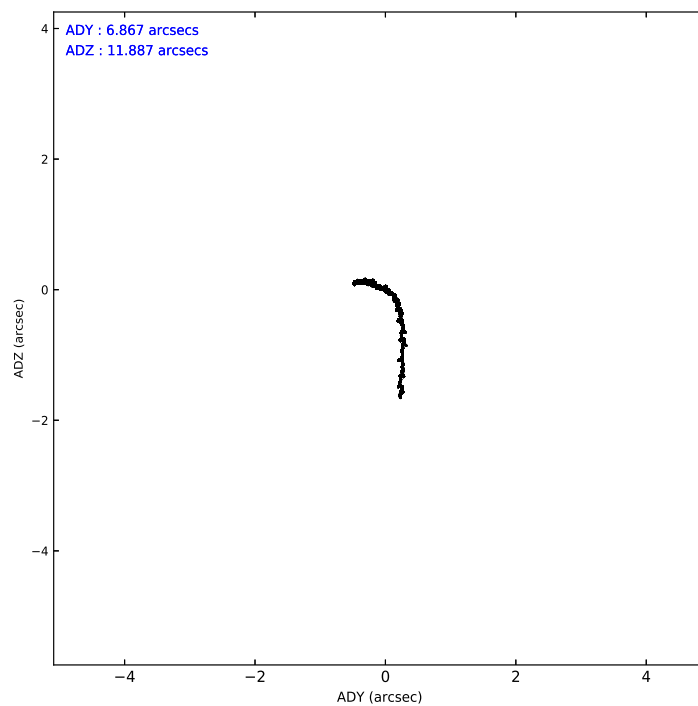
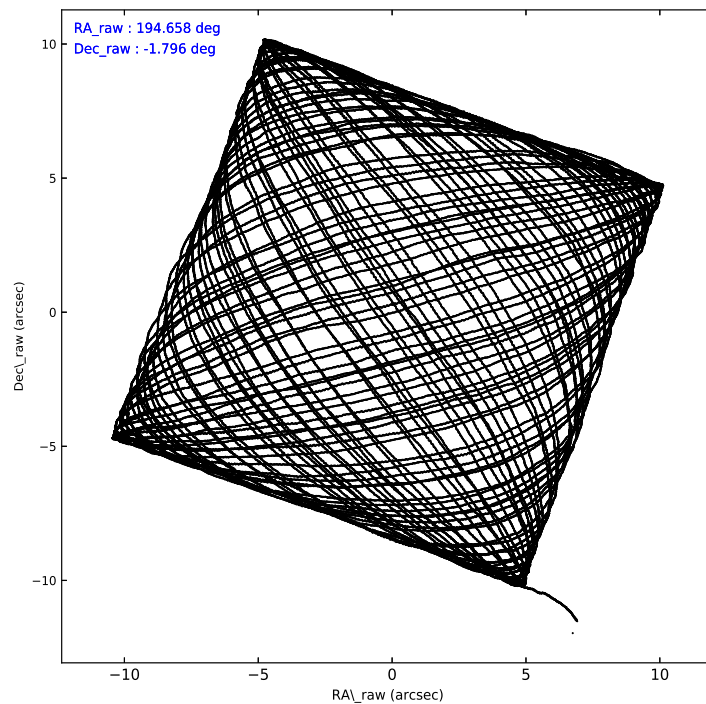
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	207414	215679	243300	327559	220947
rejected events	182365	182106	209474	205887	197018
rejected %	87%	84%	86%	62%	89%

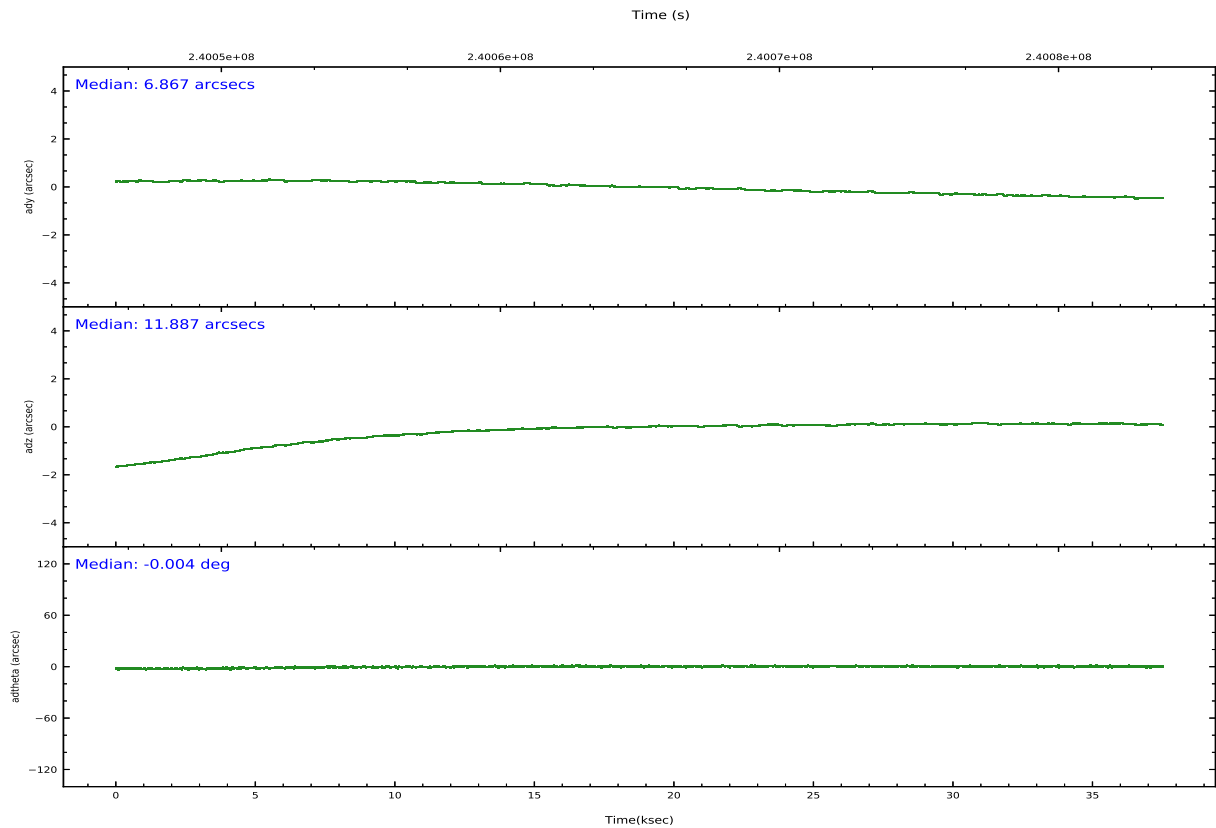
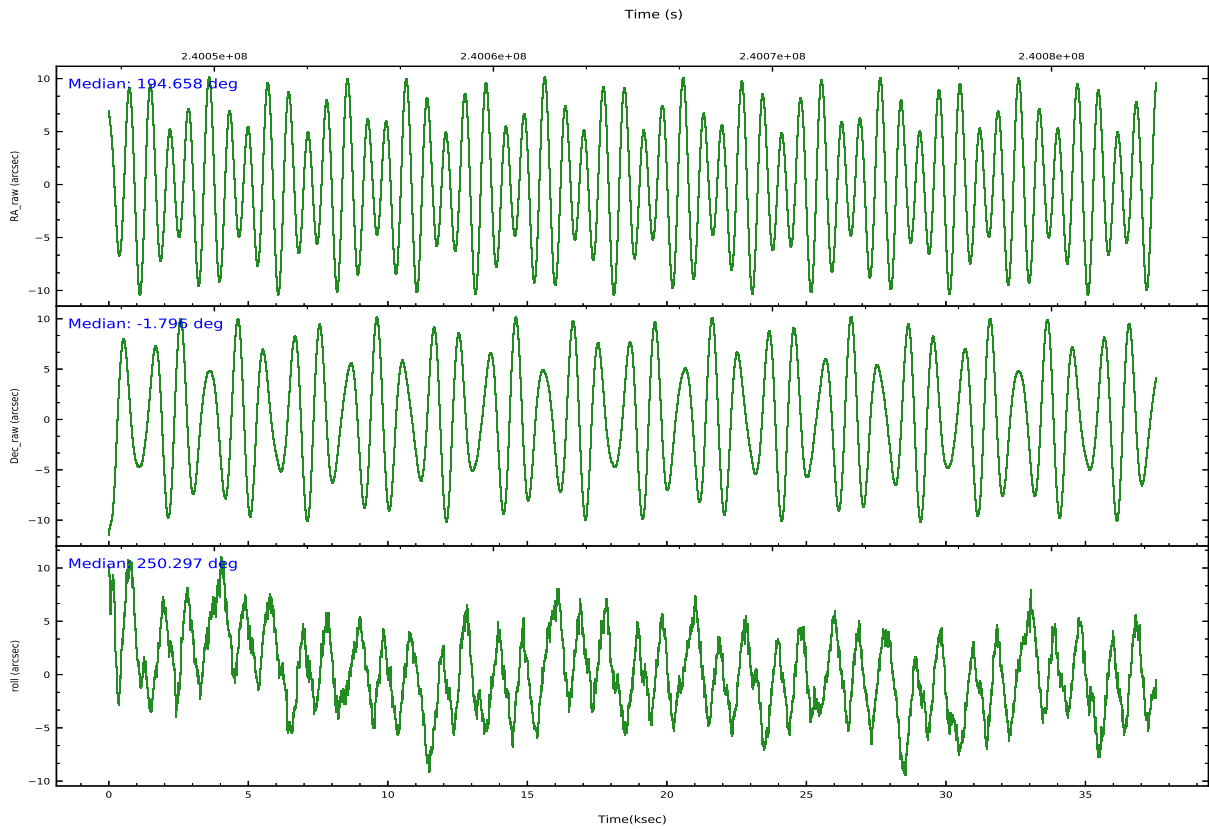
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9819	16091	17829	90394	9008
	4%	7%	7%	27%	4%
grade 1 events	118	132	197	530	111
	0%	0%	0%	0%	0%
grade 2 events	5617	6453	6235	14042	4979
	2%	2%	2%	4%	2%
grade 3 events	2732	3056	2723	5299	2575
	1%	1%	1%	1%	1%
grade 4 events	2459	2944	2776	5414	2572
	1%	1%	1%	1%	1%
grade 5 events	7984	8758	7423	9494	8941
	3%	4%	3%	2%	4%
grade 6 events	4426	5032	4270	6544	4800
	2%	2%	1%	1%	2%
grade 7 events	174259	173213	201847	195842	187961
	84%	80%	82%	59%	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	194.652578	194.65506776614	Subarray requested	NONE	NONE
[deg] Pointing Dec	-1.769220	-1.793122351123	Alternating exposures requested	N	N
[deg] Pointing Roll	250.090336	250.29752689695	[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	-227.592463	-227.5958210972112			
[mm] SIM translation stage offset	-6	-5.996631905718488			
[s] Observation start time (MET)	240046749.184000	240045643.99387			
Observation start date	2005-08-10T07:38:05	2005-08-10T07:20:43			
[s] Observation end time (MET)	240083749.184000	240084623.20816			
Observation end date	2005-08-10T17:54:45	2005-08-10T18:10:23			
Read mode	TIMED	TIMED			

2.3 Aspect





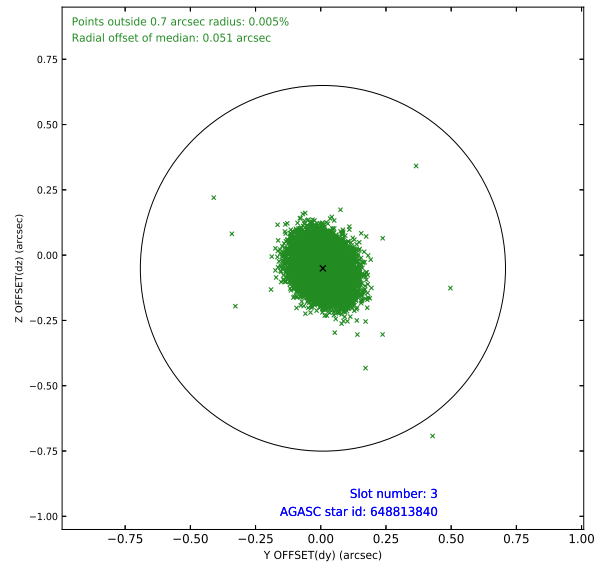
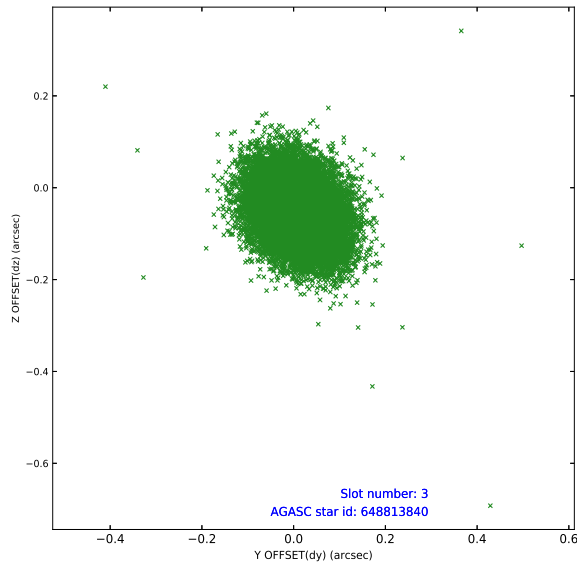
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.24	9152	1.000	0.066	-0.190	0.019	0.053	0.000000	0.000000	932.84	-958
1	FID		ACIS-I-4	7.15	9153	1.000	0.061	0.123	0.019	0.040	0.000000	0.000000	2152.48	942
2	FID		ACIS-I-5	7.21	9154	1.000	-0.228	0.137	0.015	0.028	0.000000	0.000000	-1815.49	939
3	GUIDE	used	648813840	9.23	18296	1.000	0.008	-0.050	0.081	0.134	194.717621	-1.945504	517.52	436
4	GUIDE	used	648813864	8.82	18301	1.000	-0.170	-0.205	0.080	0.132	194.235605	-1.103465	-1741.95	-2227
5	GUIDE	used	648815736	9.93	18295	1.000	0.179	-0.133	0.140	0.227	194.100949	-2.130858	1900.68	-1422
6	GUIDE	used	648815800	9.55	18289	1.000	0.200	0.144	0.109	0.175	194.475560	-2.052849	1177.34	-250
7	GUIDE	used	649731776	10.02	18290	1.000	-0.218	0.252	0.187	0.319	195.271404	-1.336449	-2223.05	1563

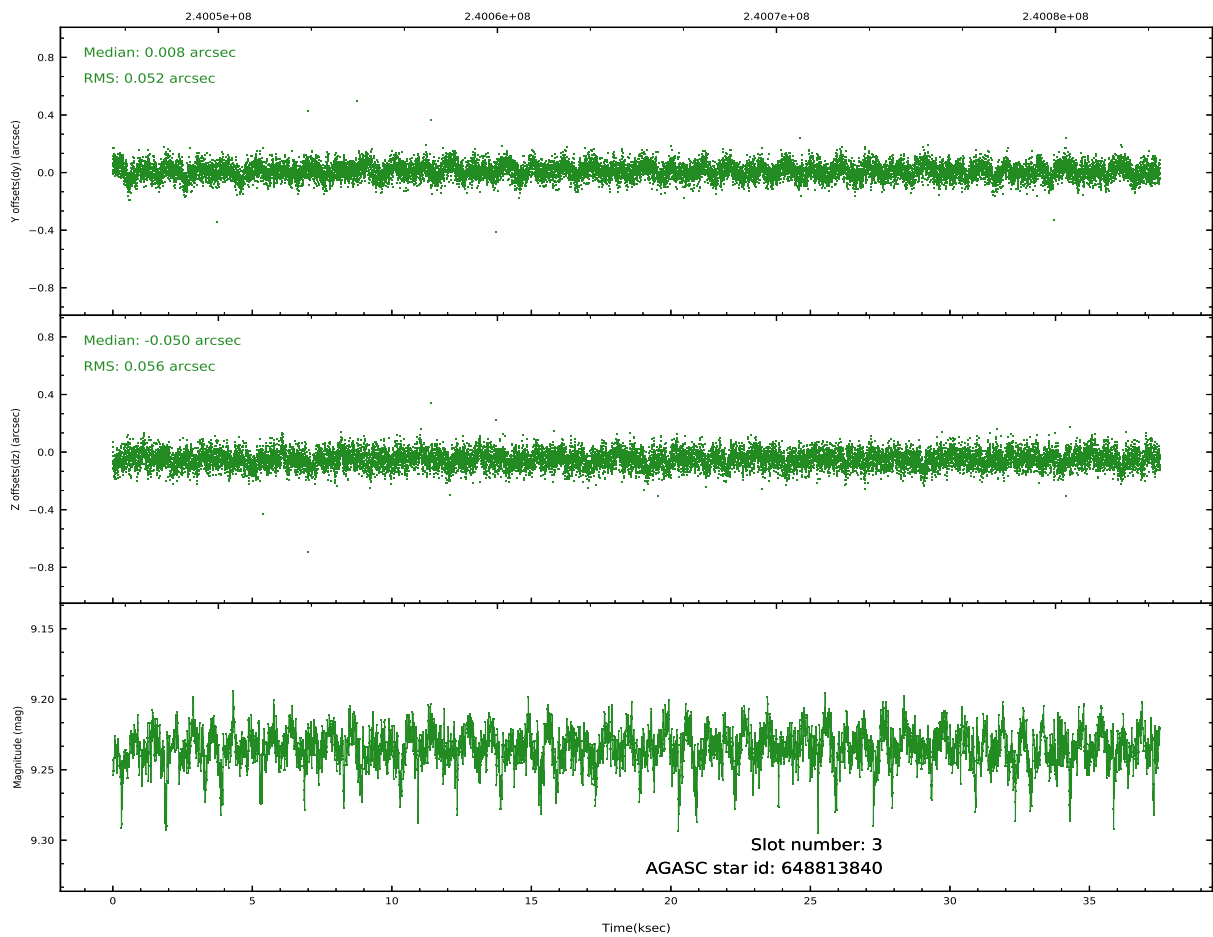
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2.4 Star Slots

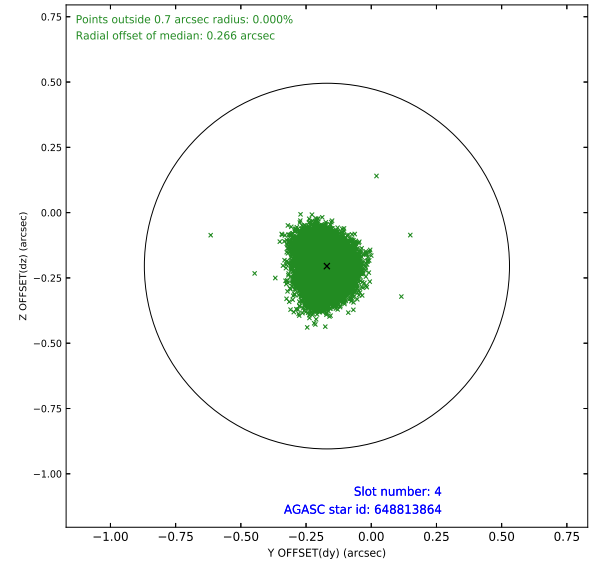
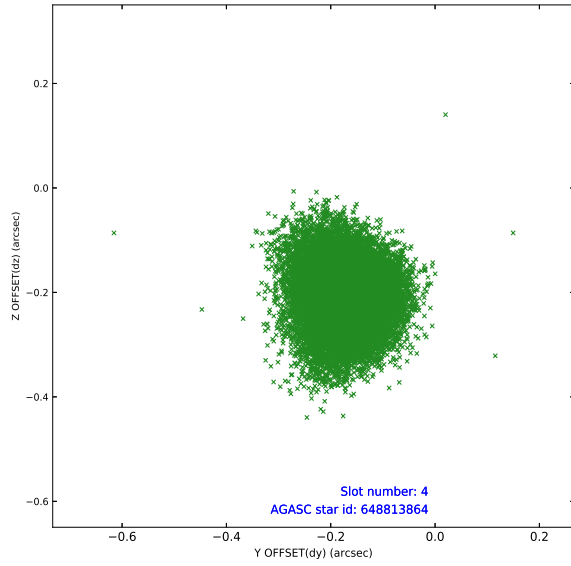
2.4.1 Slot 3



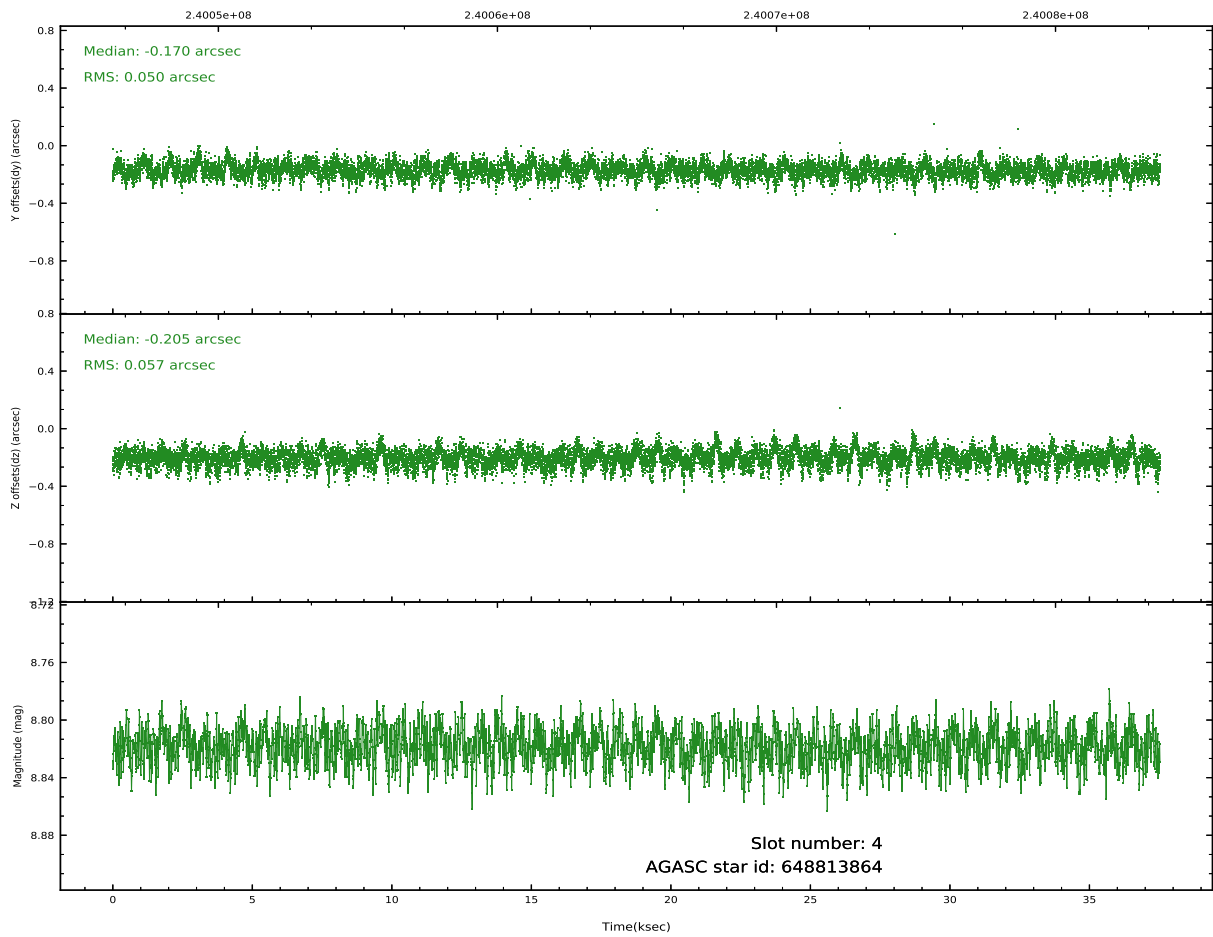
Time (s)



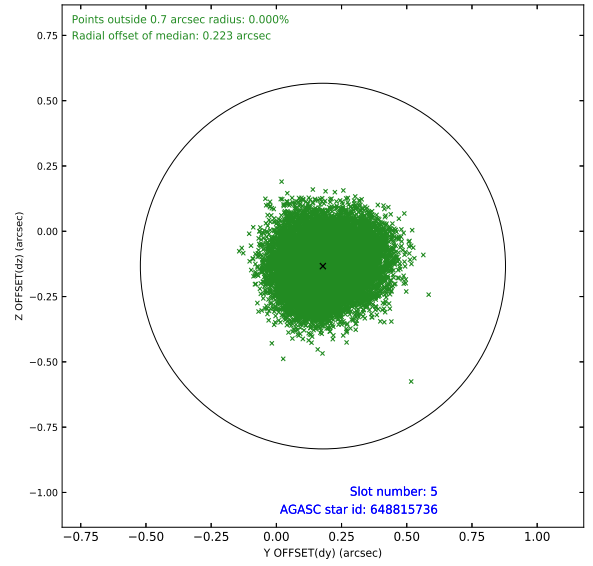
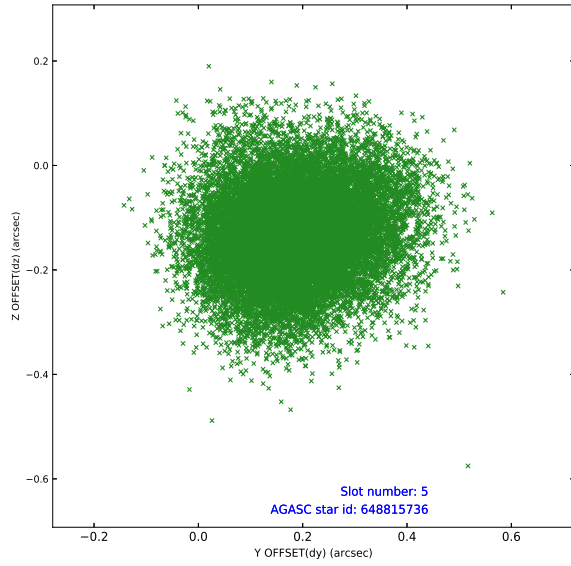
2.4.2 Slot 4



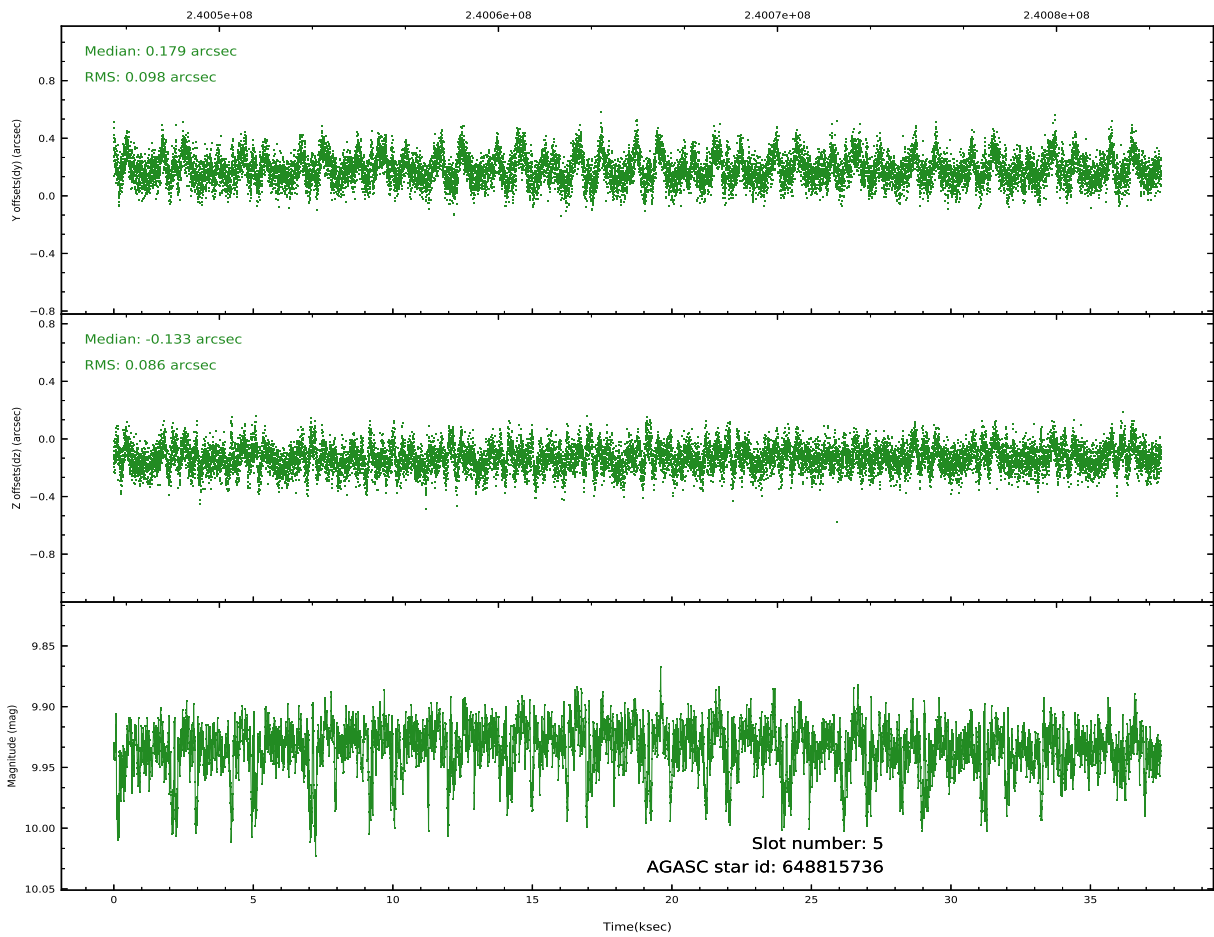
Time (s)



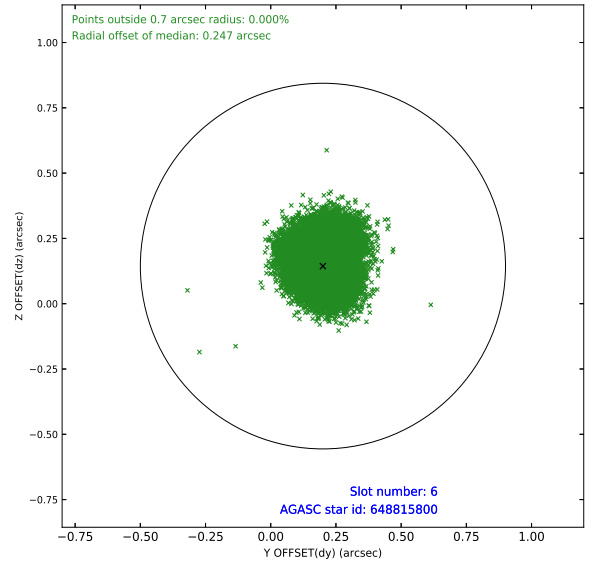
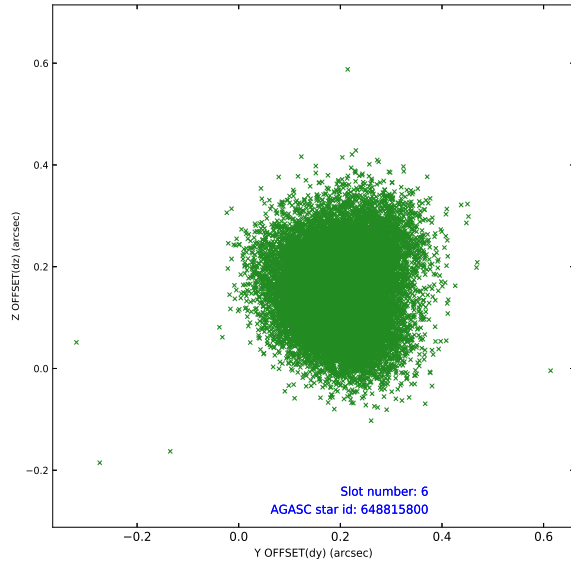
2.4.3 Slot 5



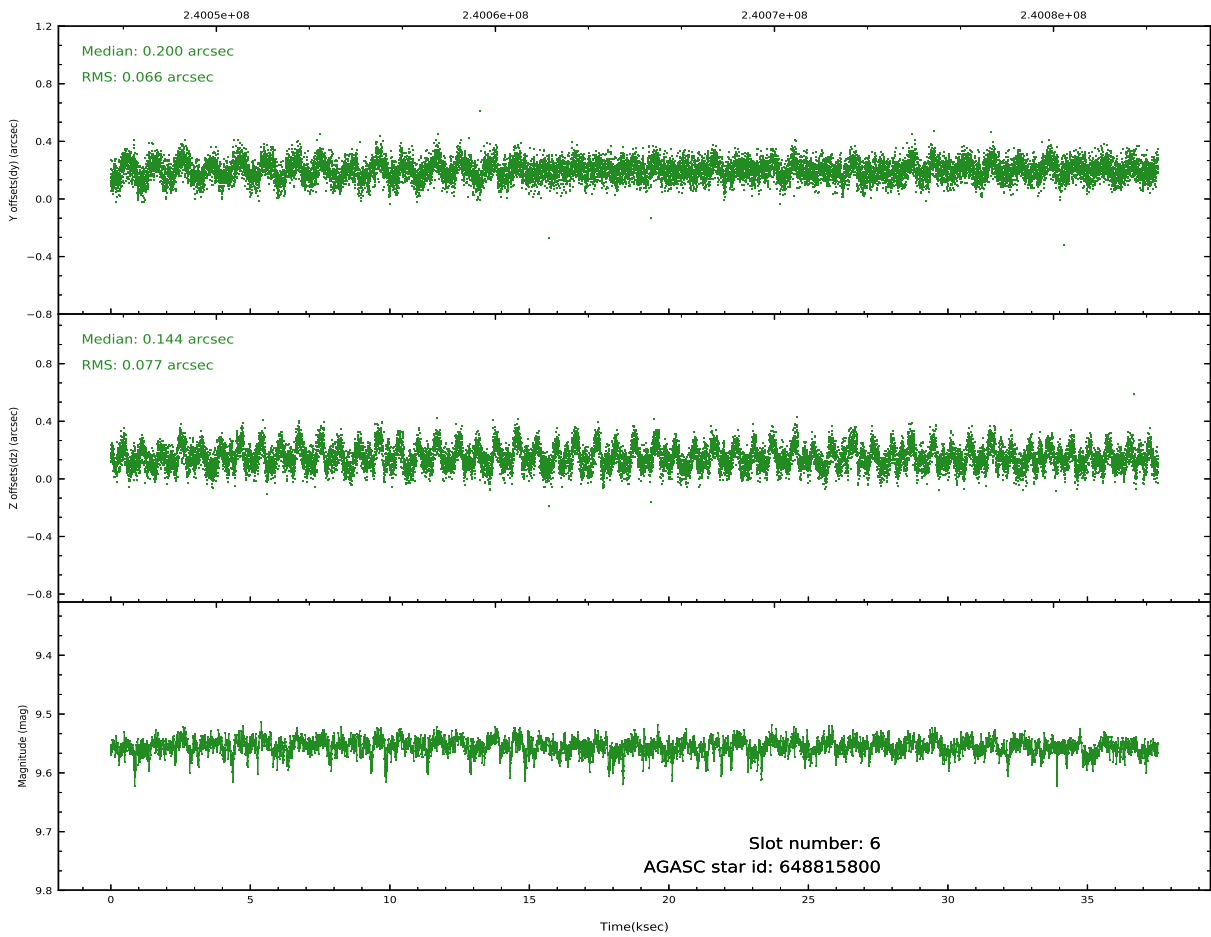
Time (s)



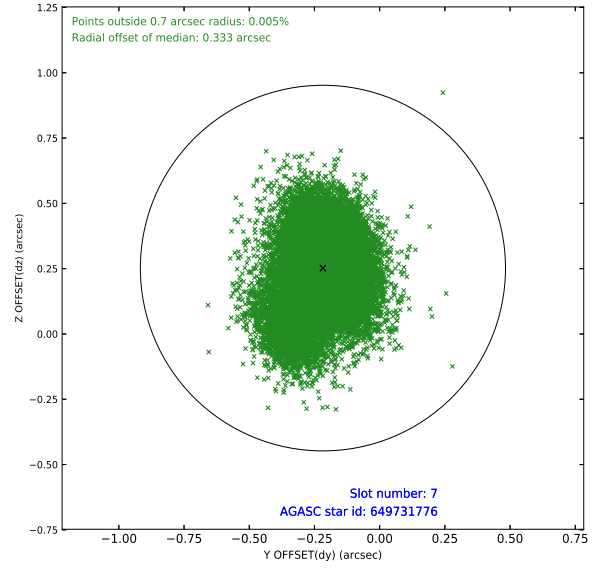
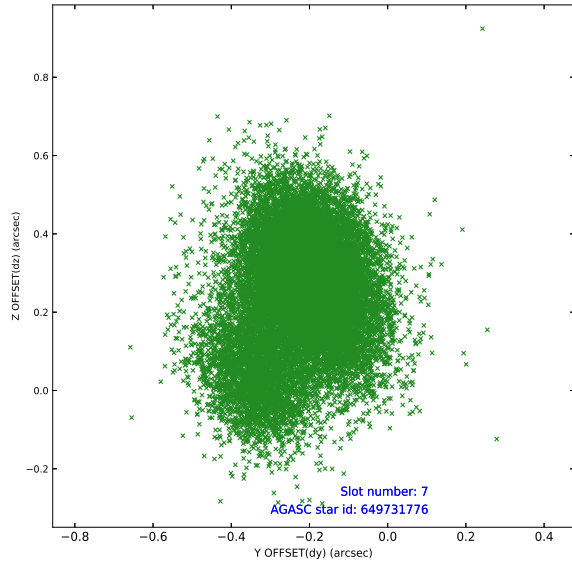
2.4.4 Slot 6



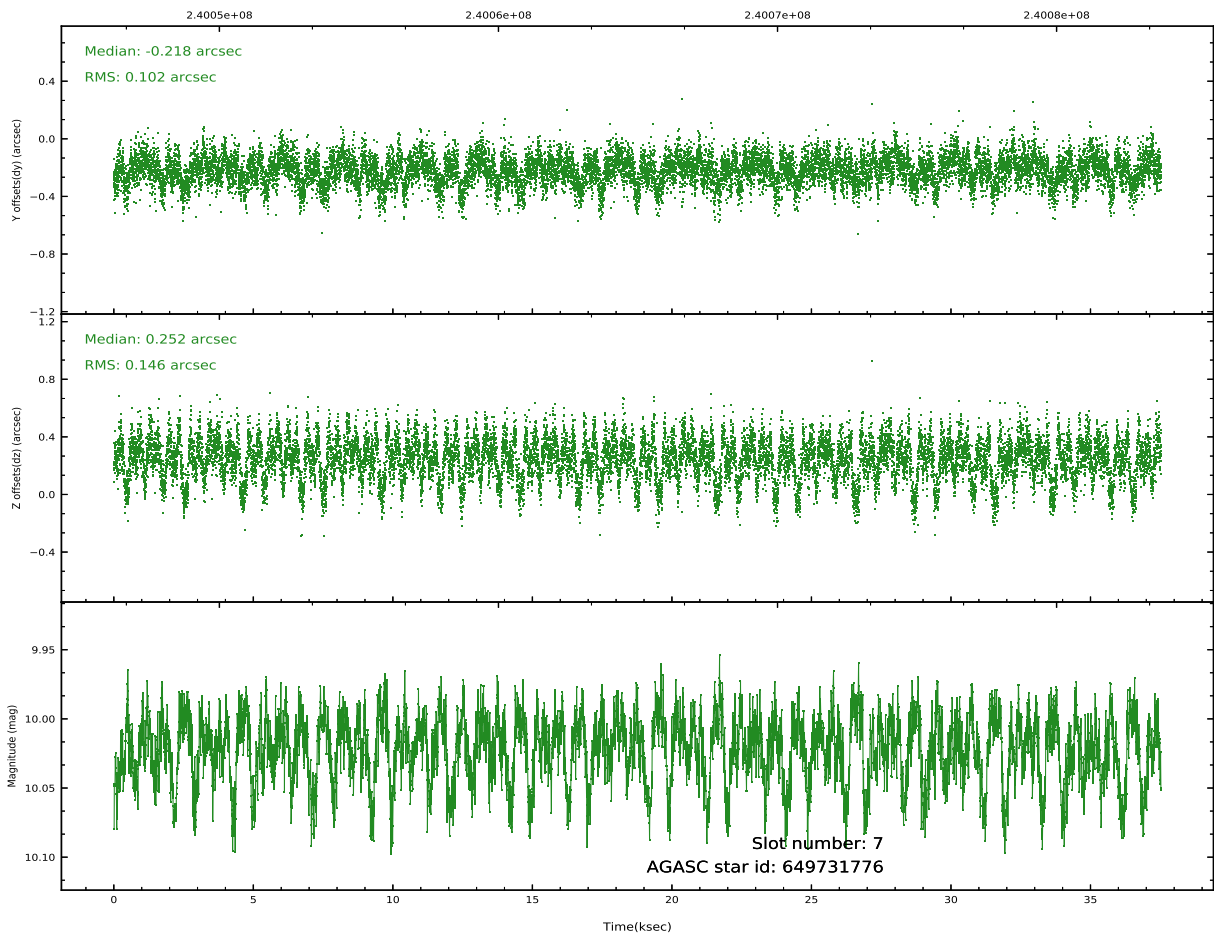
Time (s)



2.4.5 Slot 7

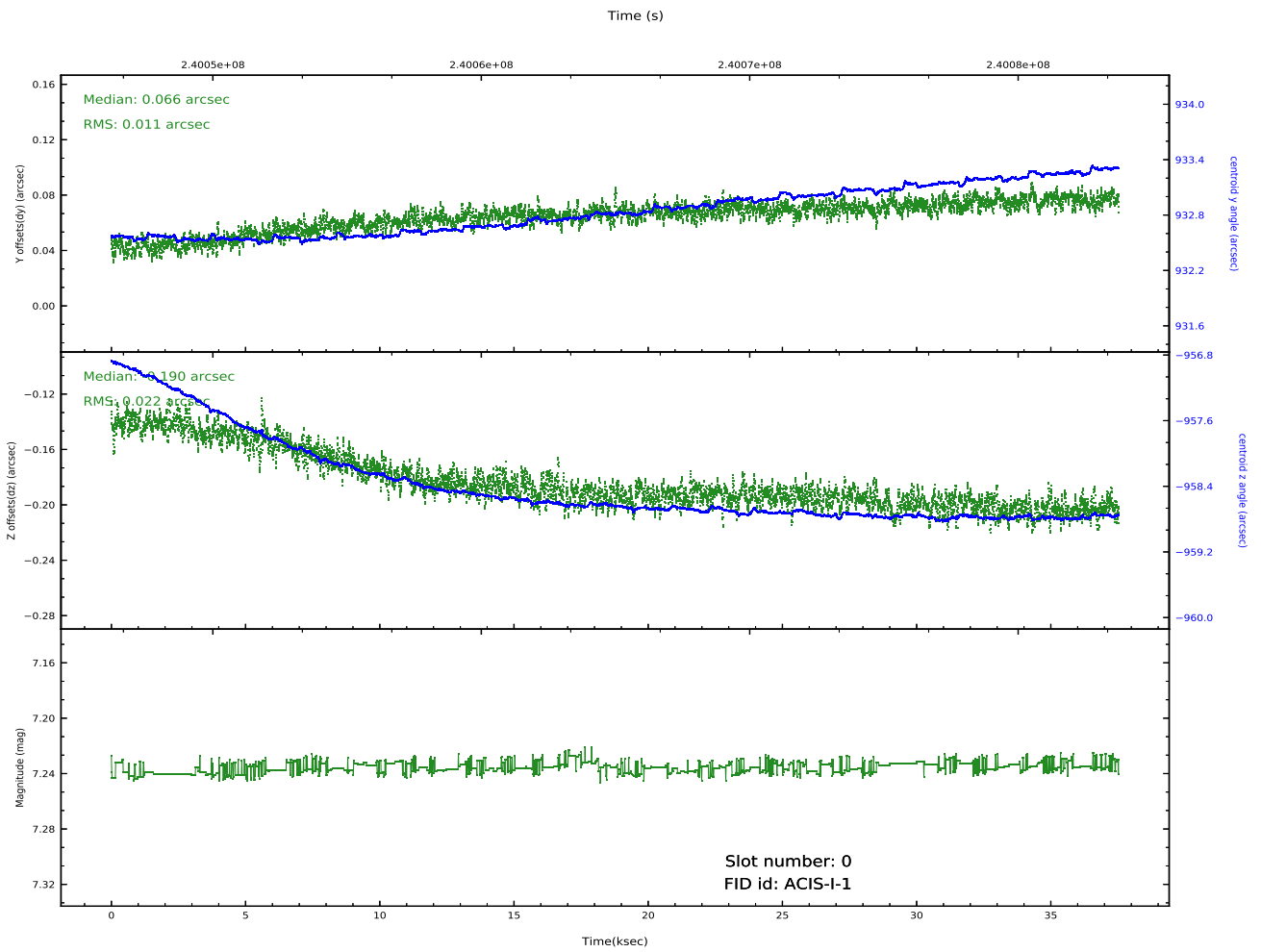
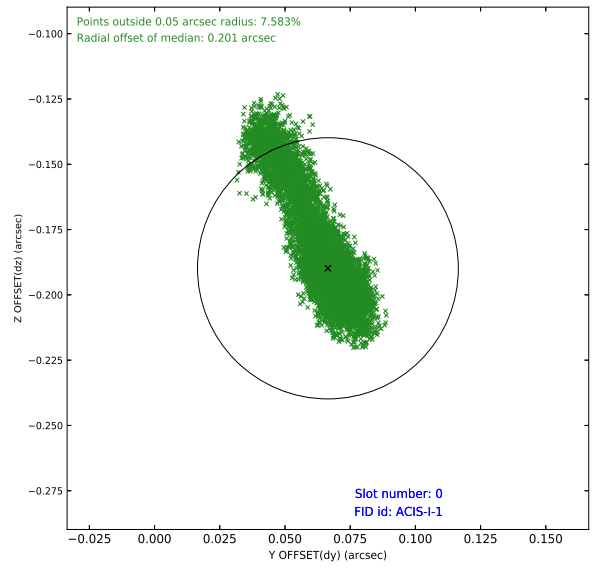
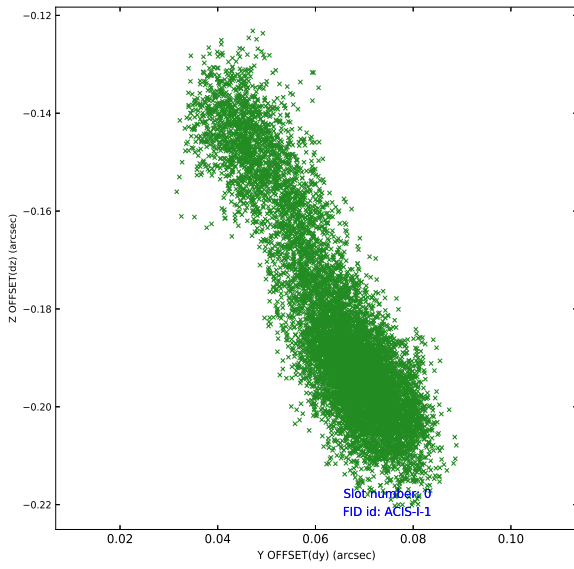


Time (s)

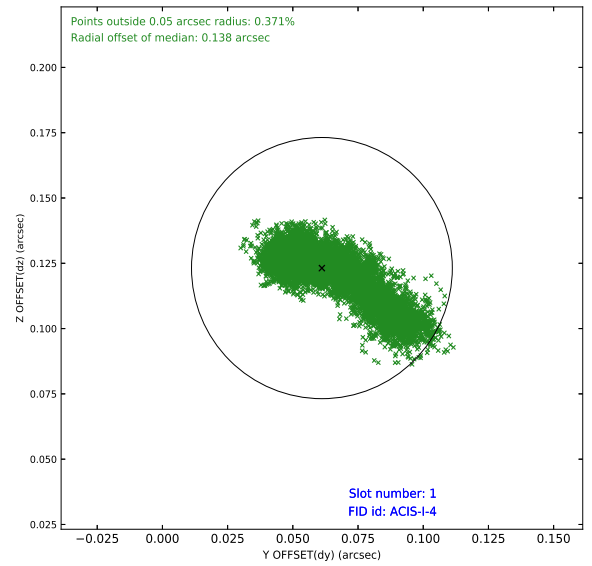
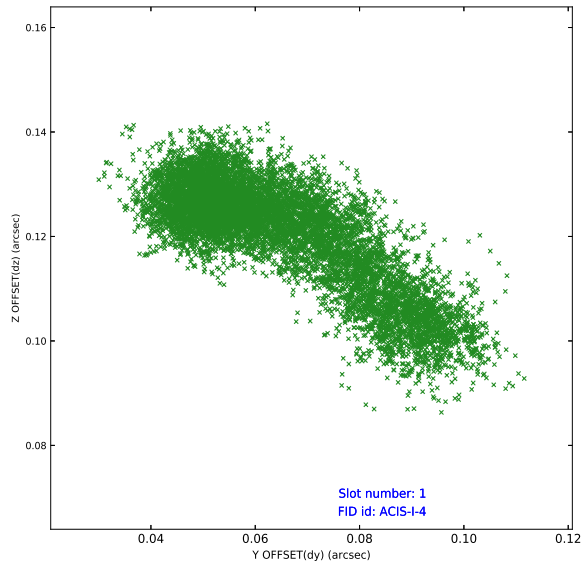


2.5 FID Slots

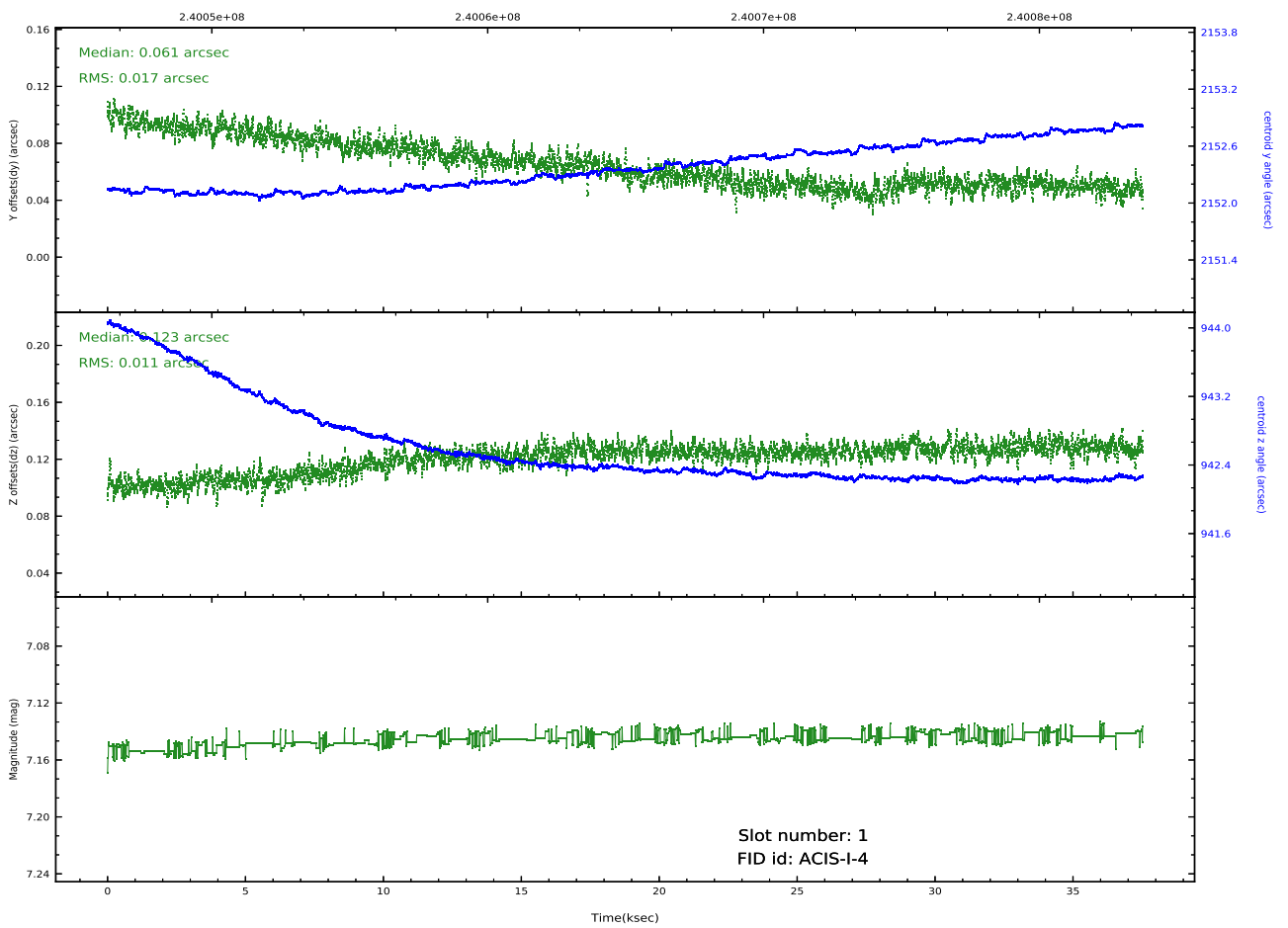
2.5.1 Slot 0



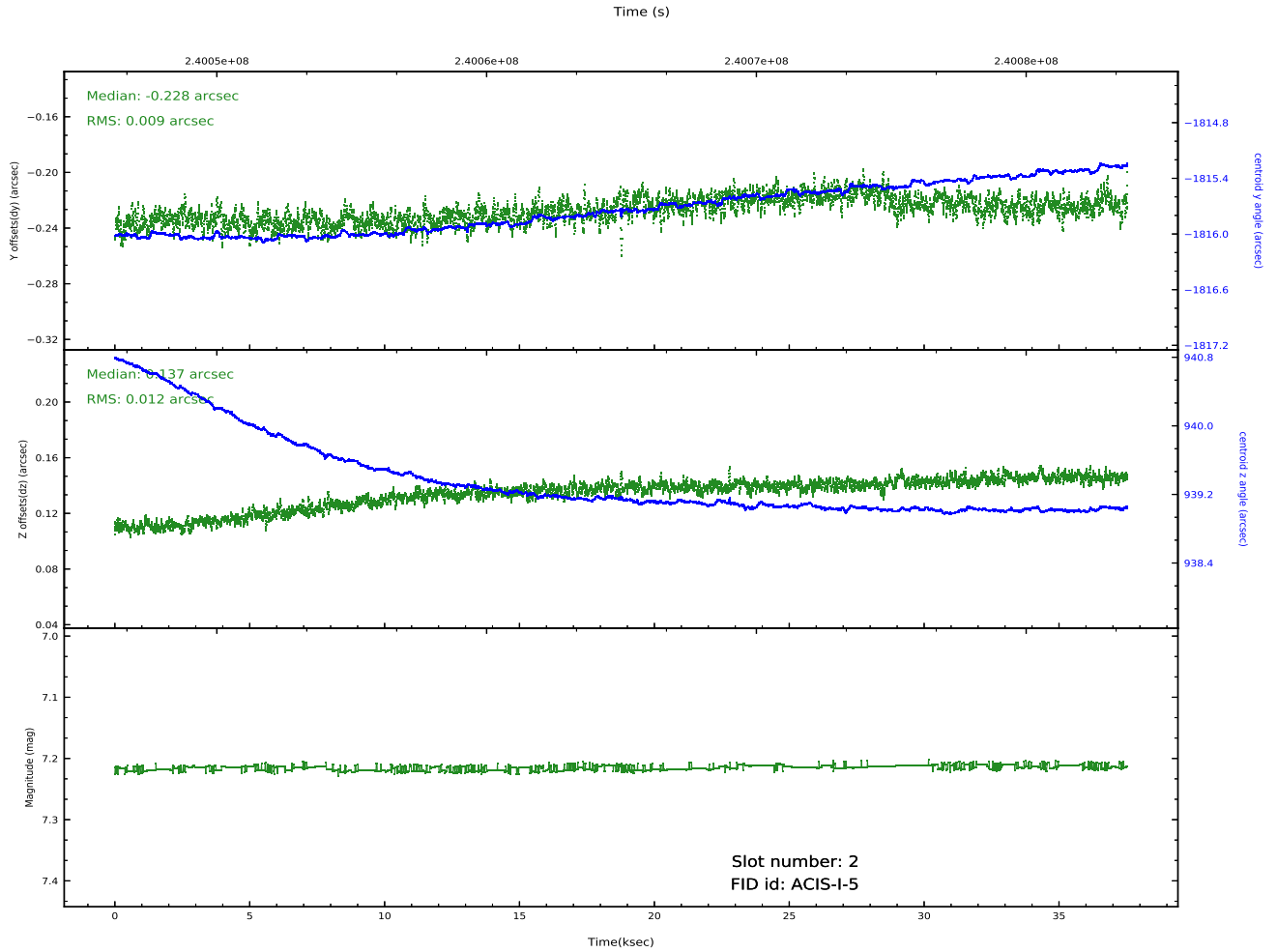
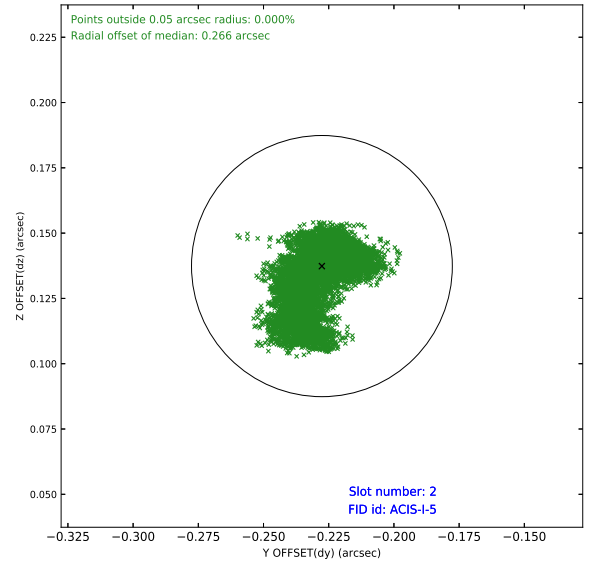
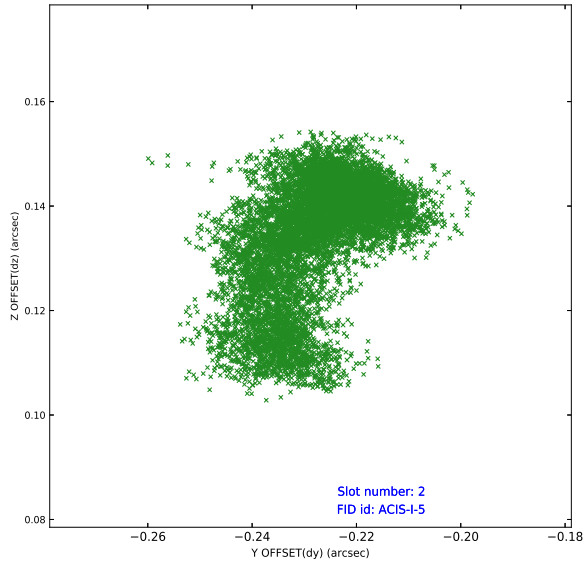
2.5.2 Slot 1



Time (s)



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	37.0449

A.2 Comments