

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 5913 - L2 Version 4
Chandra X-Ray Center

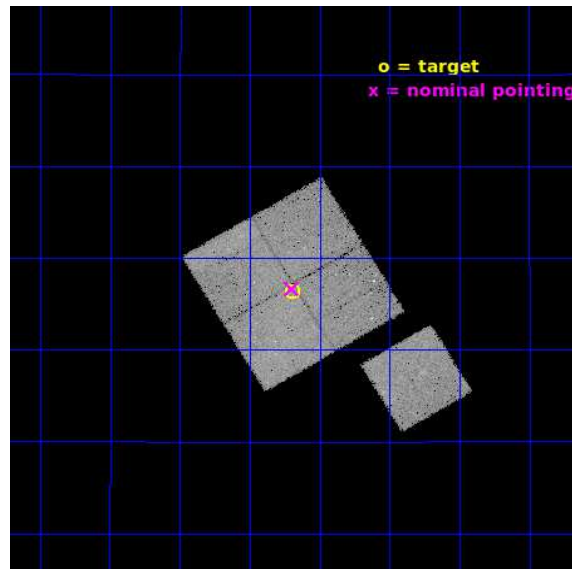
L2 Processing Date : Oct 7 2020

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

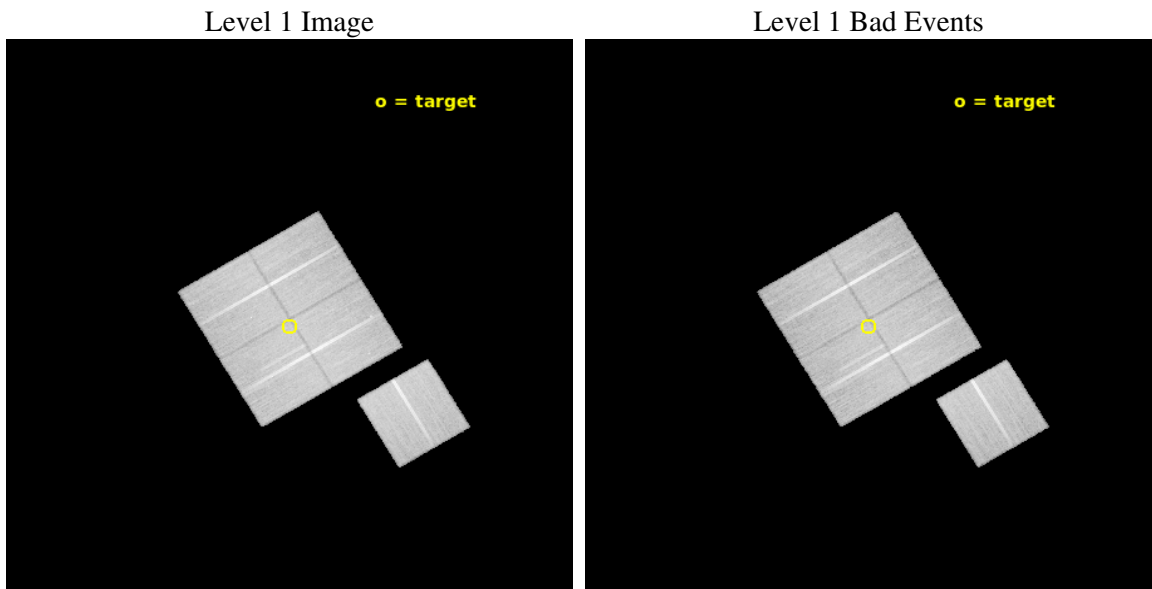
seq_num	600432	Sequence number
obs_id	5913	Observation id
title	Understanding the Process of Ram Pressure Stripping in M86	Proposa
observer	Christine Jones	Principal investigator
object	M86	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.299583	Observer's specified target RA [deg]
dec_targ	13.272722	Observer's specified target Dec [deg]
ra_nom	186.29968581068	Nominal RA [deg]
dec_nom	13.277808543689	Nominal Dec [deg]
roll_nom	149.20786432753	Nominal Roll [deg]
revision	4	Processing version of data
ontime	36137.599865377	Sum of GTIs [s]
livetime	35680.003816431	Livetime [s]
ontime0	36134.358875096	Sum of GTIs [s]
ontime1	36124.635904342	Sum of GTIs [s]
ontime2	36134.358865201	Sum of GTIs [s]
ontime3	36137.599865377	Sum of GTIs [s]
ontime6	36137.599865377	Sum of GTIs [s]
l2events	113937	Number of level 2 events



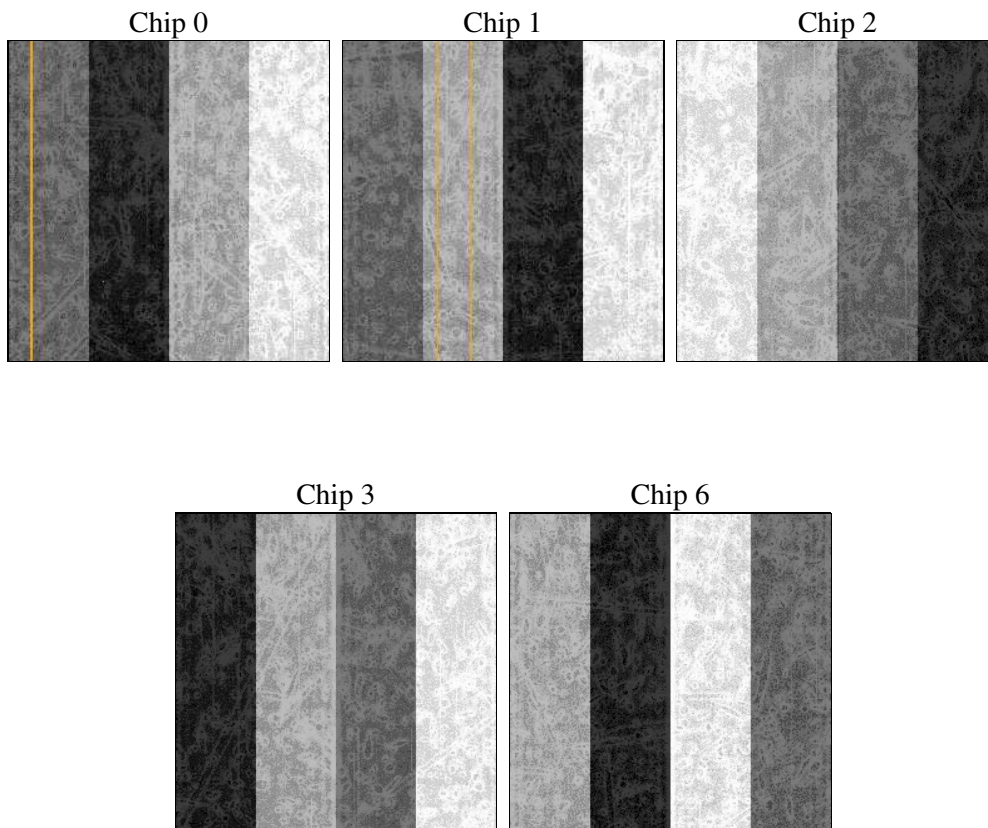
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	36000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	36137.599865377	Sum of GTIs [s]
caldbver	4.9.2	 	ontime0	36134.358875096	Sum of GTIs [s]
date	2020-10-07T10:35:15	Date and time of file creation	ontime1	36124.635904342	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	36134.358865201	Sum of GTIs [s]
			ontime3	36137.599865377	Sum of GTIs [s]
			ontime6	36137.599865377	Sum of GTIs [s]
			l1events	1133342	Number of level 1 events

2.1.4 Events

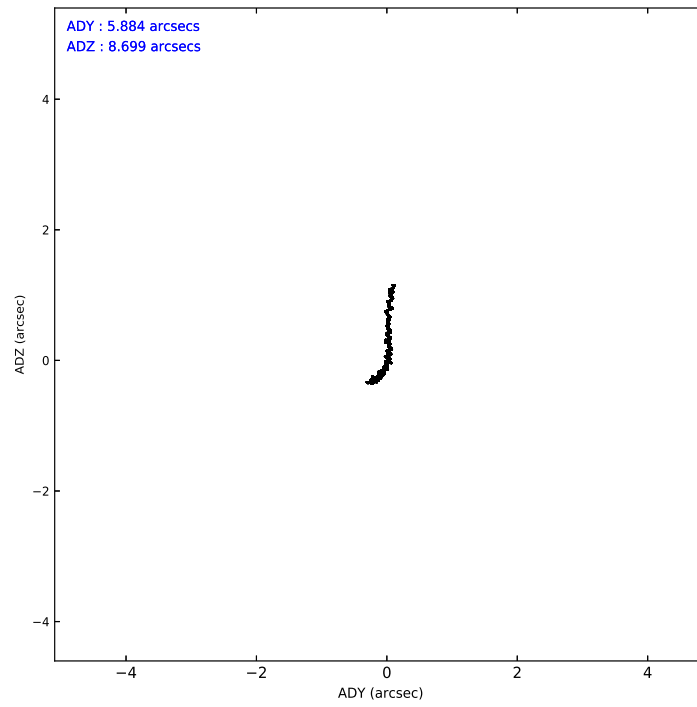
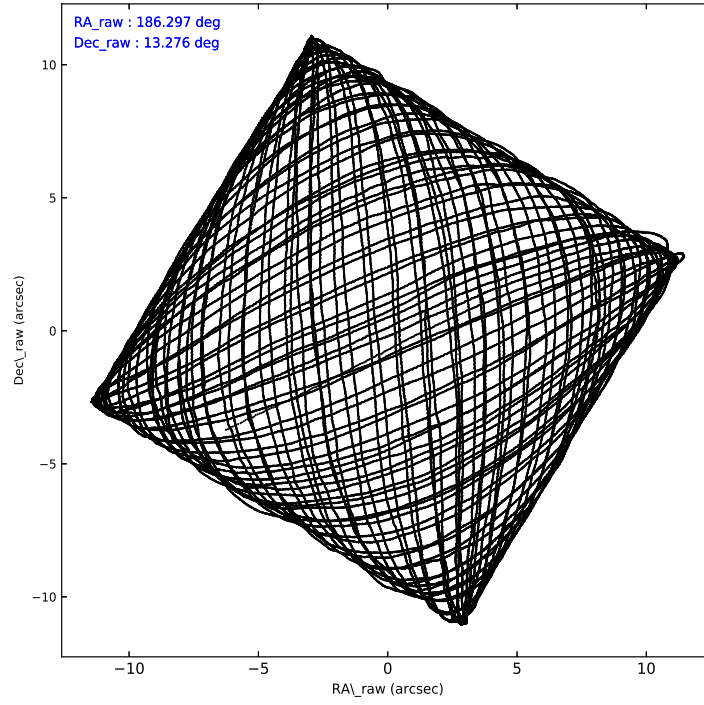
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	214078	216204	237376	235933	229751
rejected events	188969	187424	211824	206573	204204
rejected %	88%	86%	89%	87%	88%

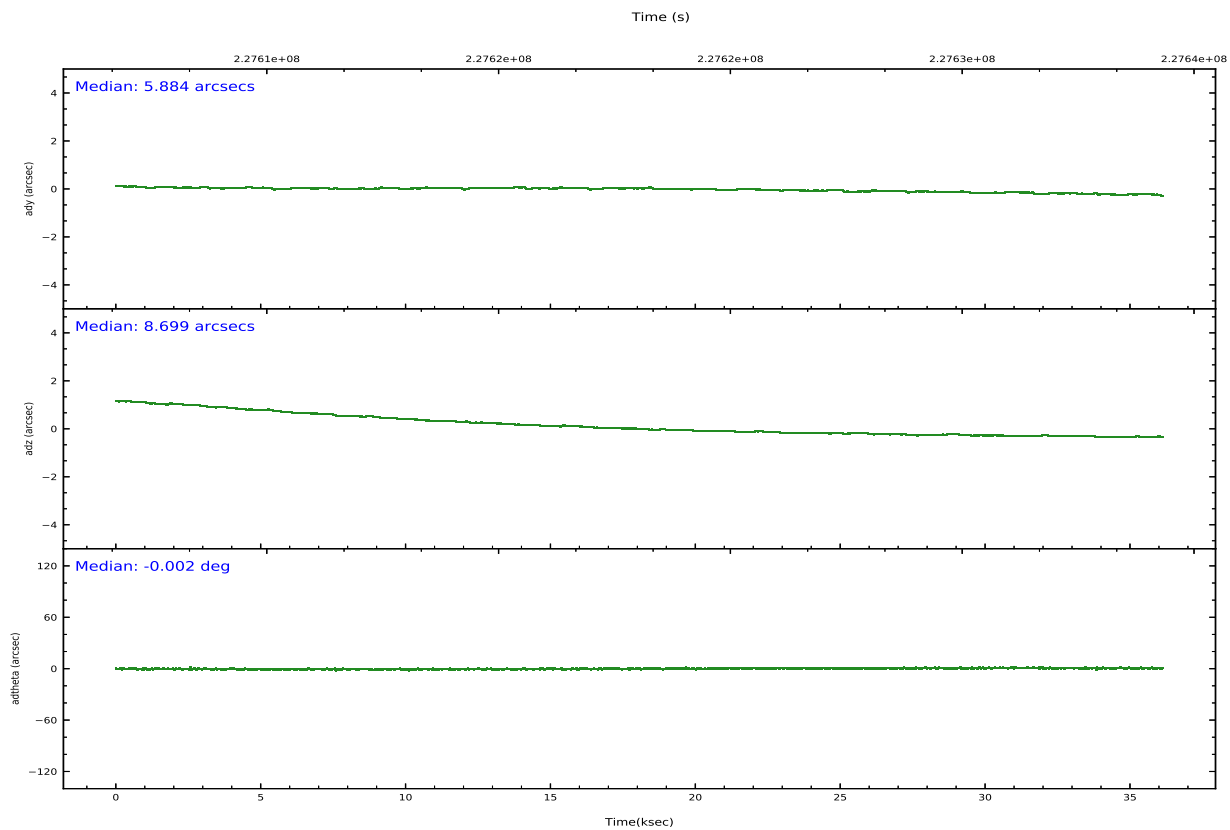
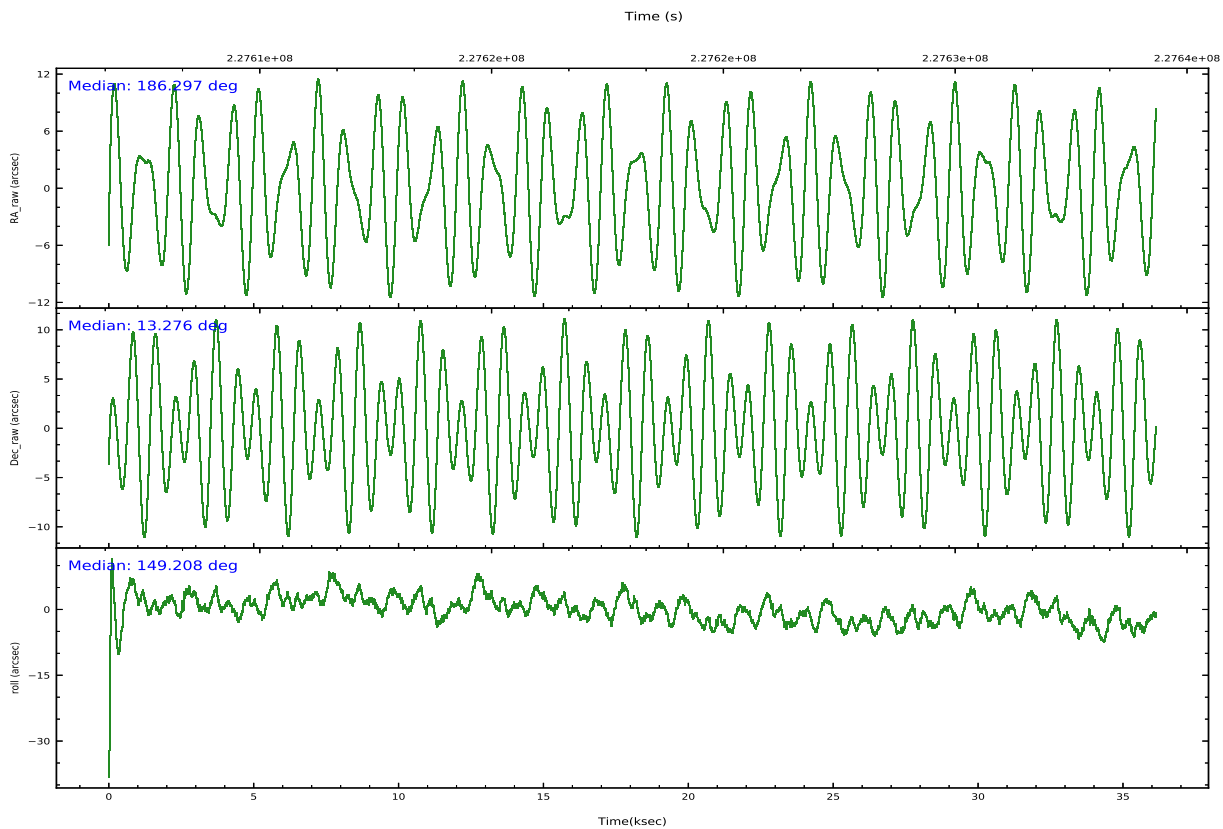
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	10417	12584	11308	14946	10650
	4%	5%	4%	6%	4%
grade 1 events	118	100	120	156	102
	0%	0%	0%	0%	0%
grade 2 events	5516	5853	5404	5219	5222
	2%	2%	2%	2%	2%
grade 3 events	2739	2996	2576	2641	2665
	1%	1%	1%	1%	1%
grade 4 events	2459	2844	2664	2672	2583
	1%	1%	1%	1%	1%
grade 5 events	8147	8622	7657	9030	8840
	3%	3%	3%	3%	3%
grade 6 events	4457	5033	4083	4428	4898
	2%	2%	1%	1%	2%
grade 7 events	180225	178172	203564	196841	194791
	84%	82%	85%	83%	84%

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	186.324904	186.29968581068	Subarray requested	NONE	NONE
[deg] Pointing Dec	13.276186	13.277808543689	Alternating exposures requested	N	N
[deg] Pointing Roll	148.991413	149.20786432753	[s] Primary exposure time	0.000000	3.2
[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)	227602935.184000	227601576.60139			
Observation start date	2005-03-19T07:01:11	2005-03-19T06:39:36			
[s] Observation end time (MET)	227638935.184000	227639589.24061			
Observation end date	2005-03-19T17:01:11	2005-03-19T17:13:09			
Read mode	TIMED	TIMED			

2.3 Aspect





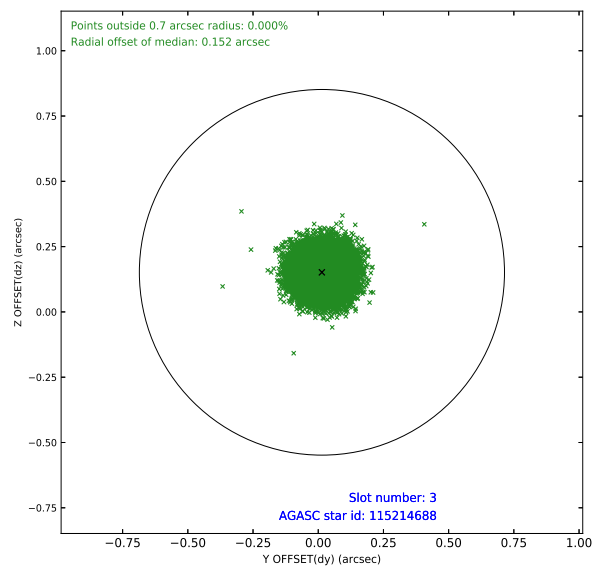
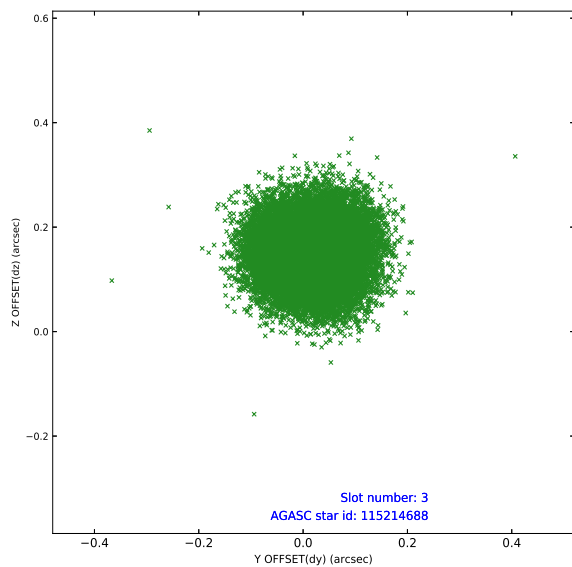
Slot Statistics

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-1	7.24	8816	1.000	0.017	0.017	0.012	0.019	0.000000	0.000000	933.89	-832
1	FID		ACIS-I-5	7.23	8814	1.000	-0.191	0.032	0.012	0.018	0.000000	0.000000	-1814.42	1065
2	FID		ACIS-I-6	7.26	8814	1.000	0.082	0.020	0.011	0.027	0.000000	0.000000	399.44	1709
3	GUIDE	used	115214688	8.76	17632	1.000	0.014	0.152	0.087	0.133	185.816167	13.622157	2168.45	-151
4	GUIDE	used	115215984	9.97	17624	1.000	0.172	-0.064	0.160	0.280	186.134733	12.875031	-171.21	1581
5	GUIDE	used	115347400	10.20	17555	1.000	-0.035	-0.165	0.191	0.326	186.994146	13.445598	-1692.15	-1732
6	GUIDE	used	115347480	9.46	17619	1.000	0.005	0.017	0.105	0.175	186.668576	13.310410	-967.69	-726
7	GUIDE	used	115349448	9.75	17615	1.000	-0.153	0.074	0.155	0.236	186.471080	13.770115	478.48	-1787

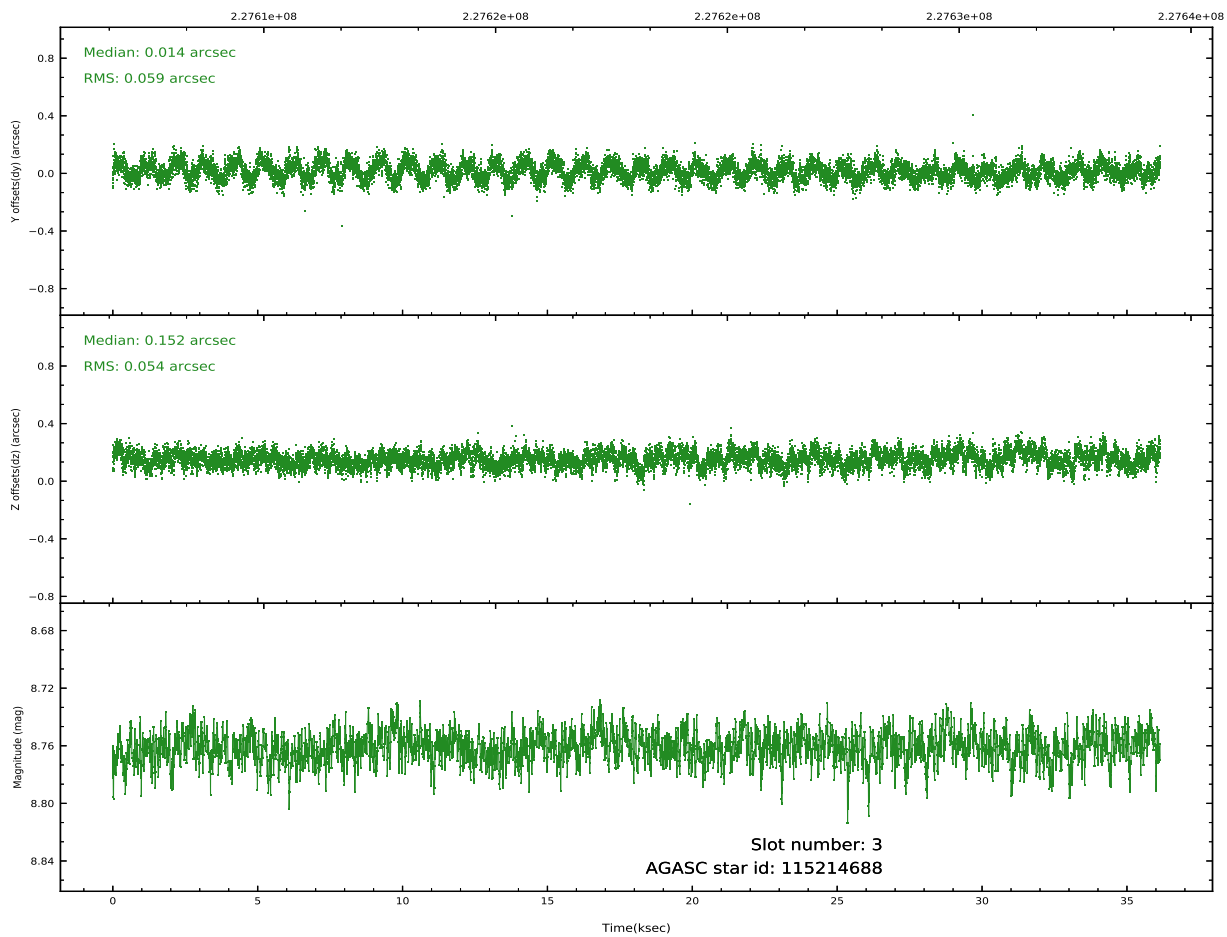
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2.4 Star Slots

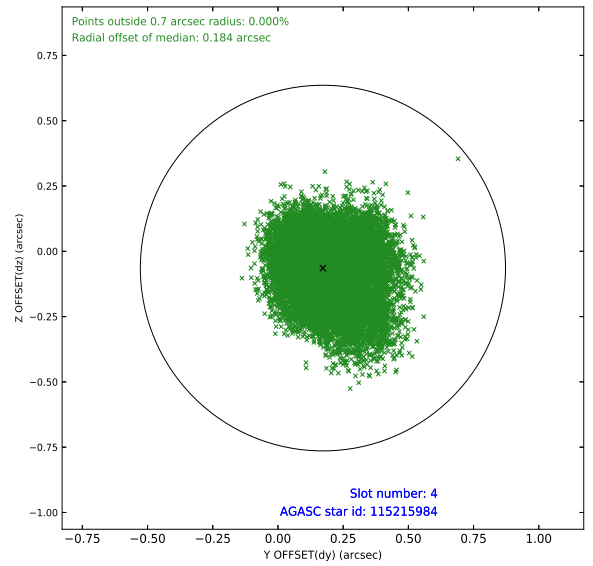
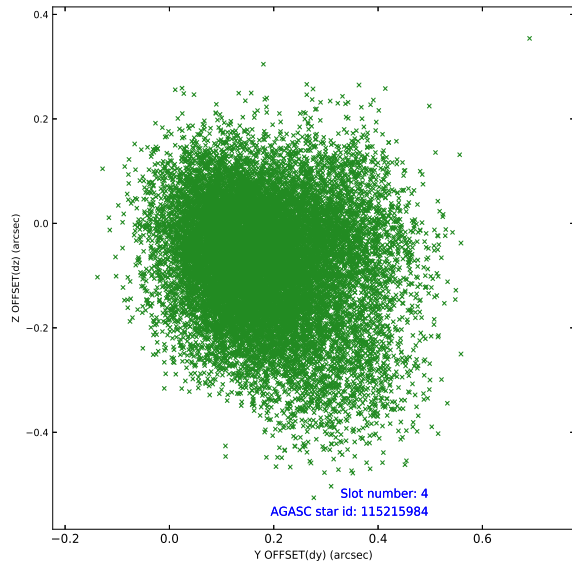
2.4.1 Slot 3



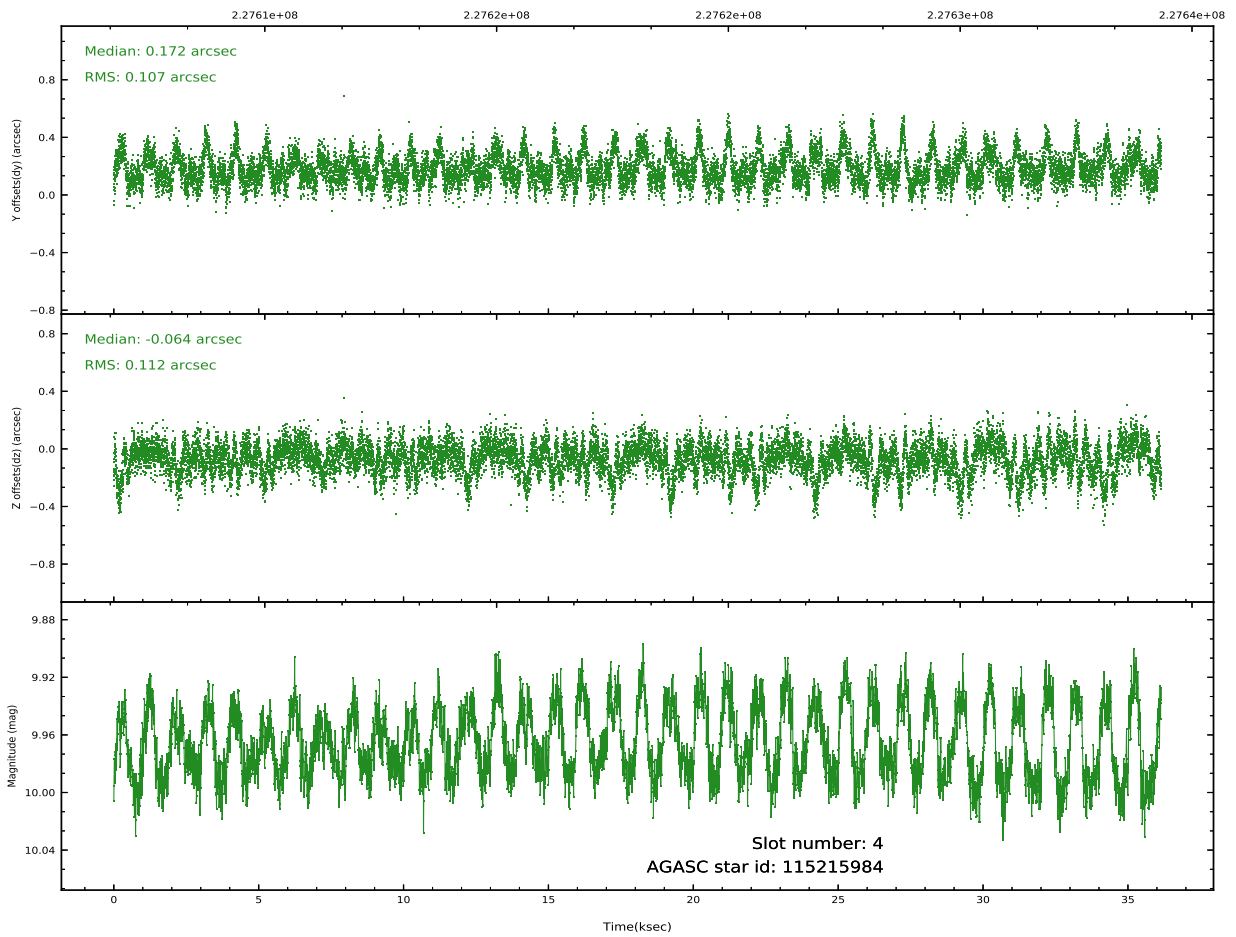
Time (s)



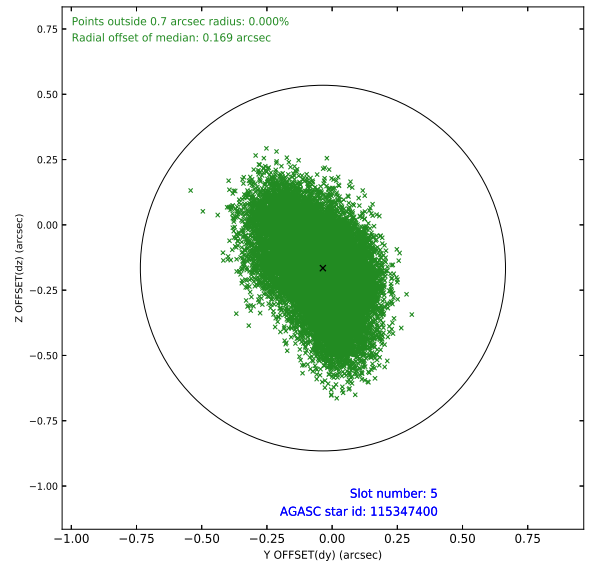
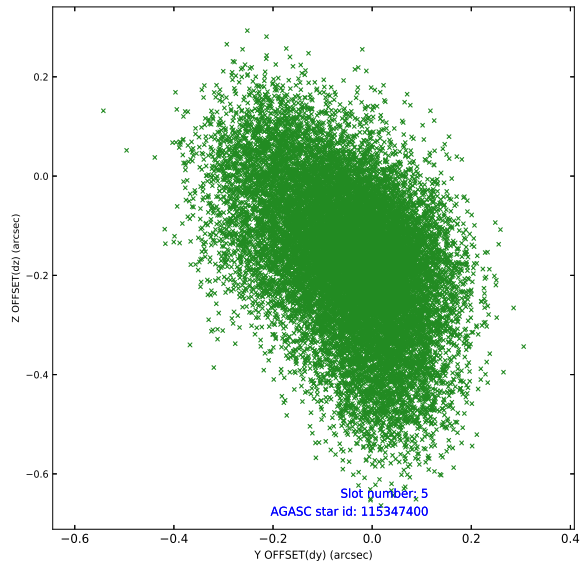
2.4.2 Slot 4



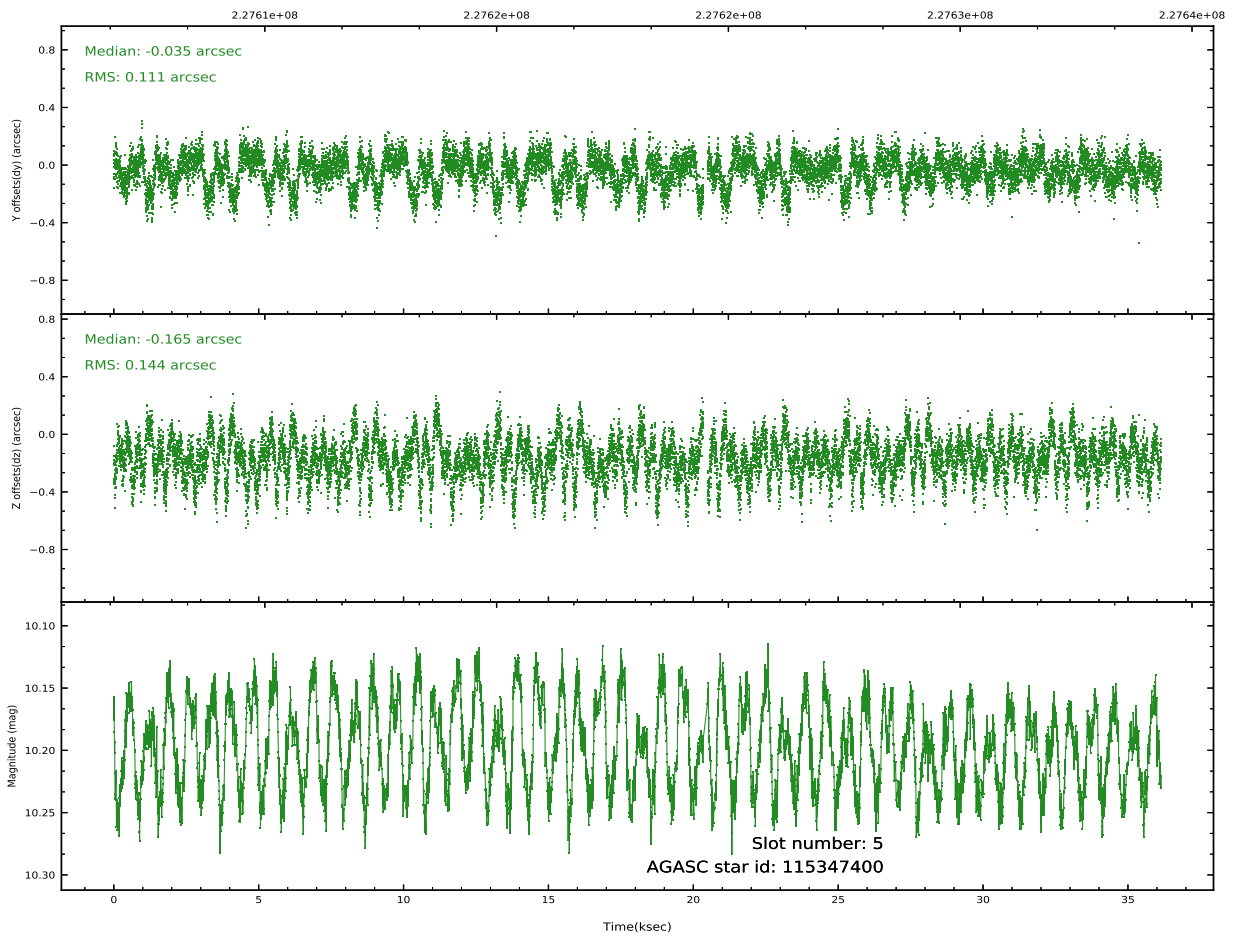
Time (s)



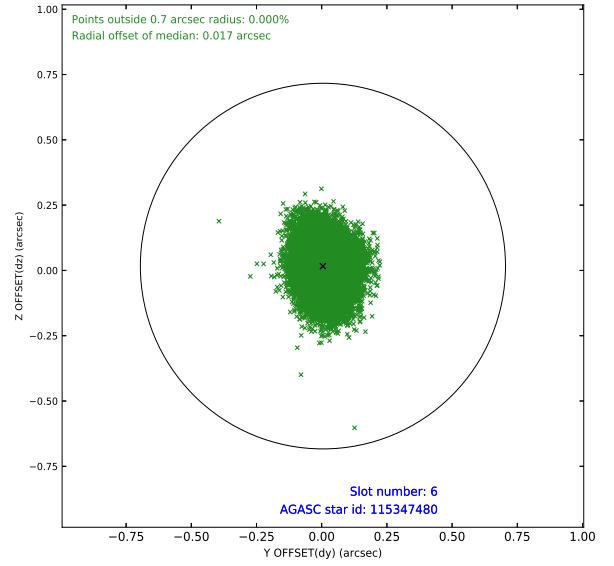
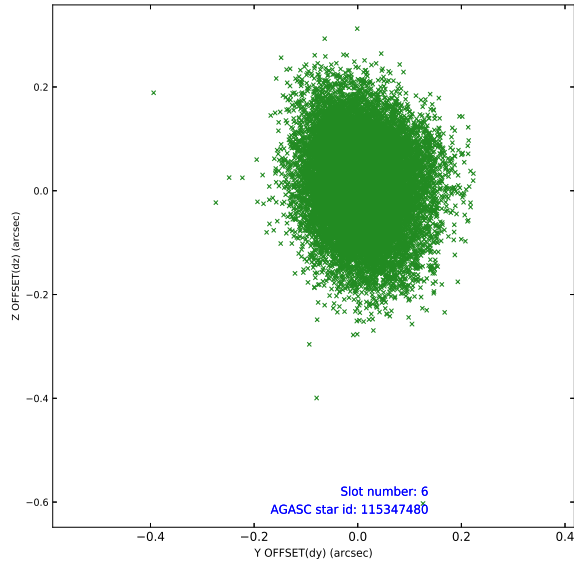
2.4.3 Slot 5



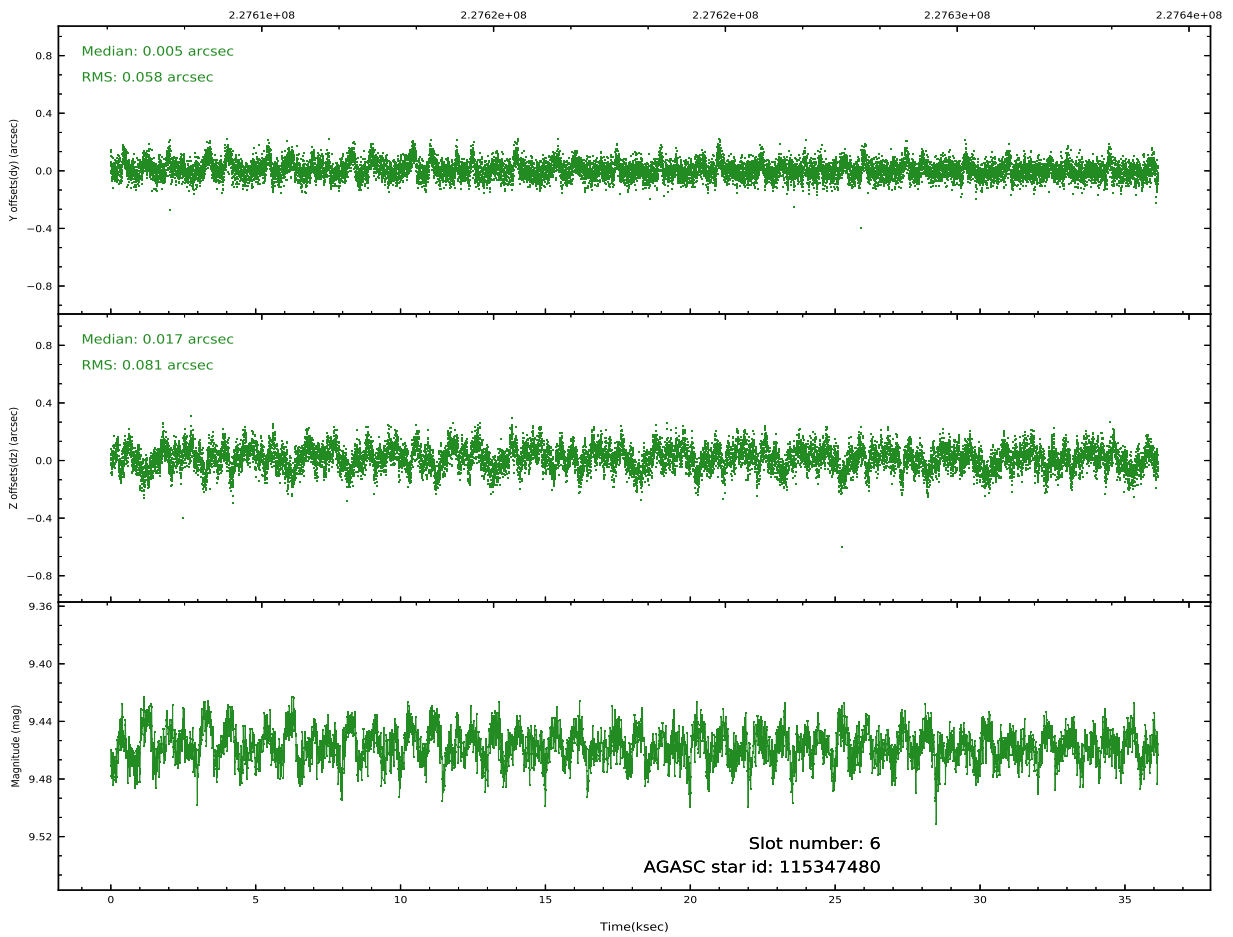
Time (s)



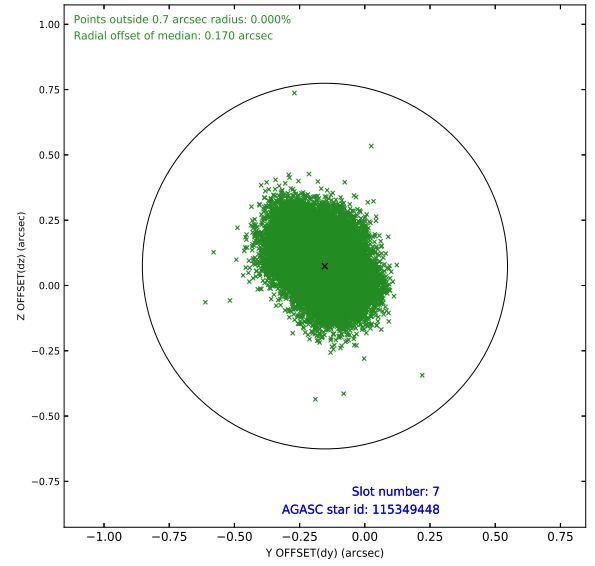
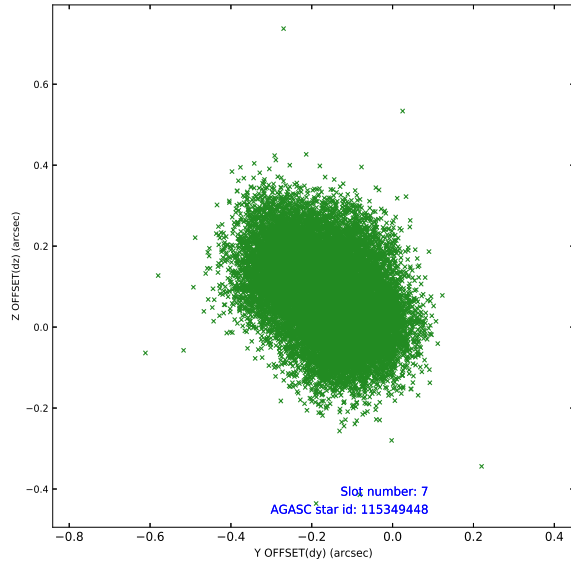
2.4.4 Slot 6



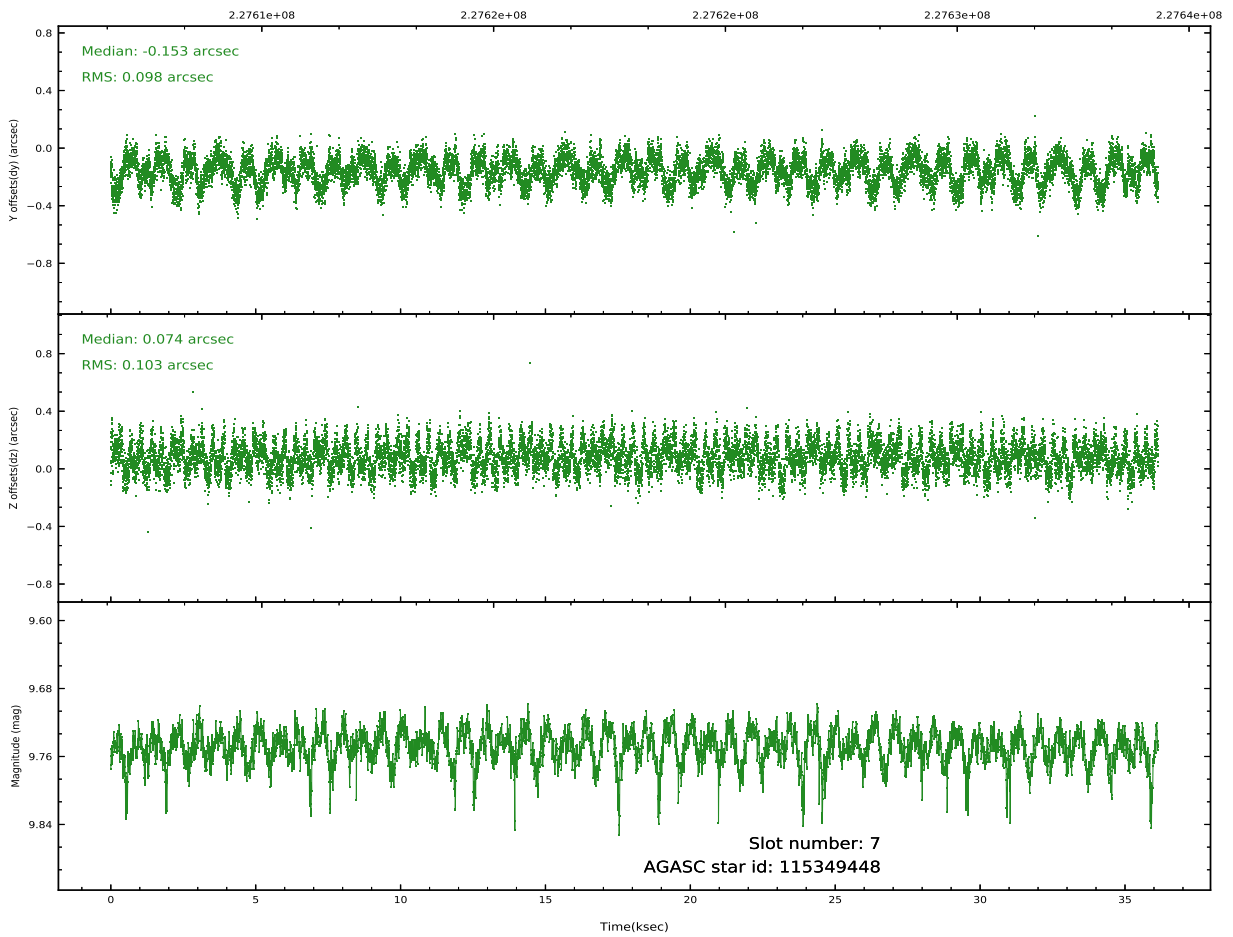
Time (s)



2.4.5 Slot 7

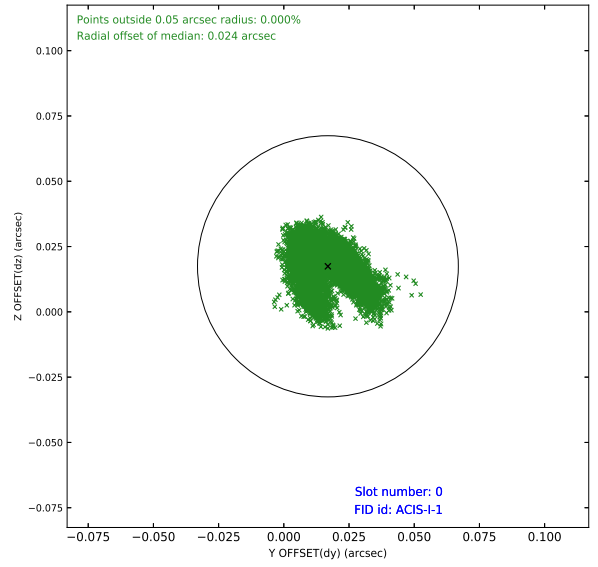
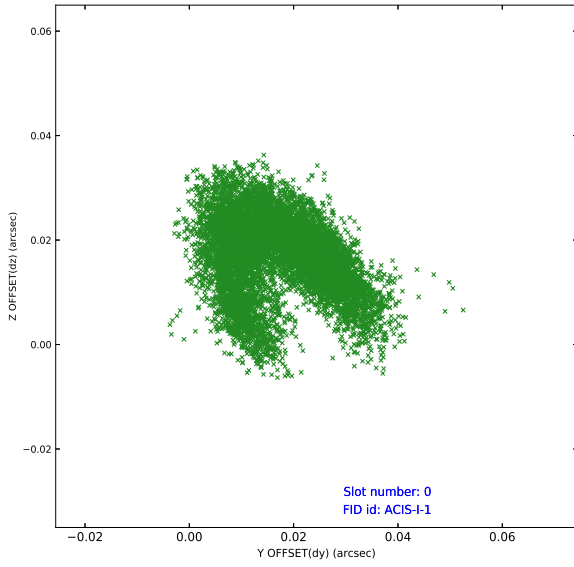


Time (s)

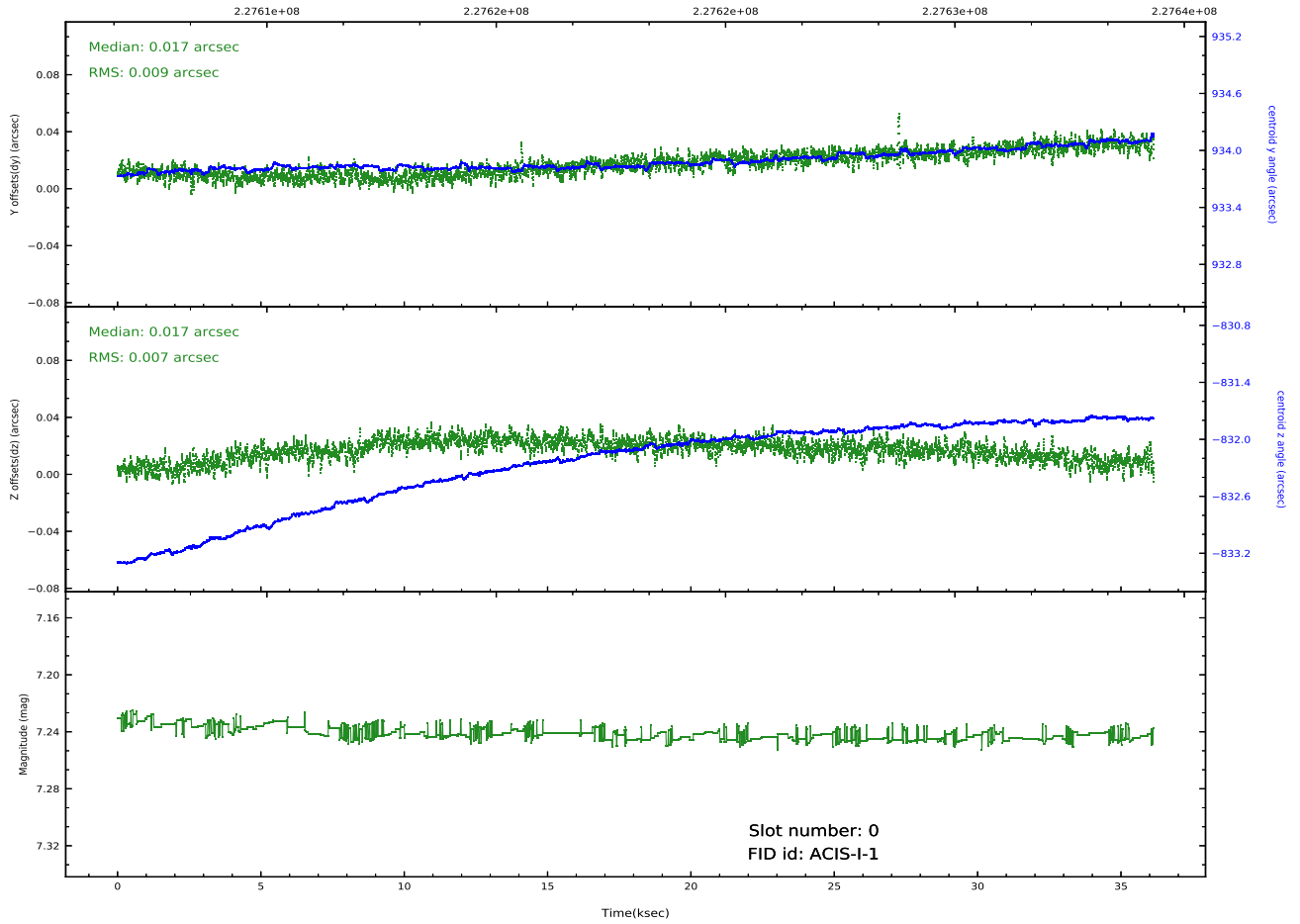


2.5 FID Slots

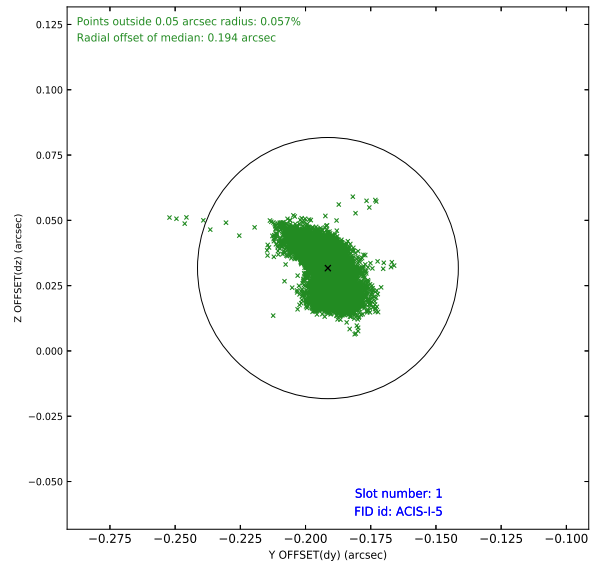
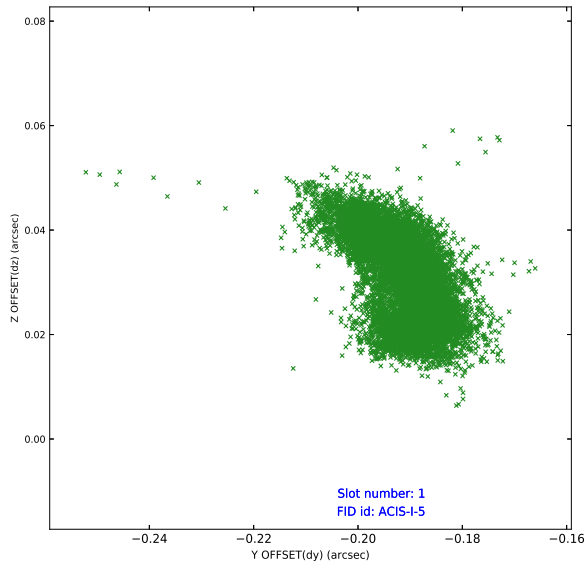
2.5.1 Slot 0



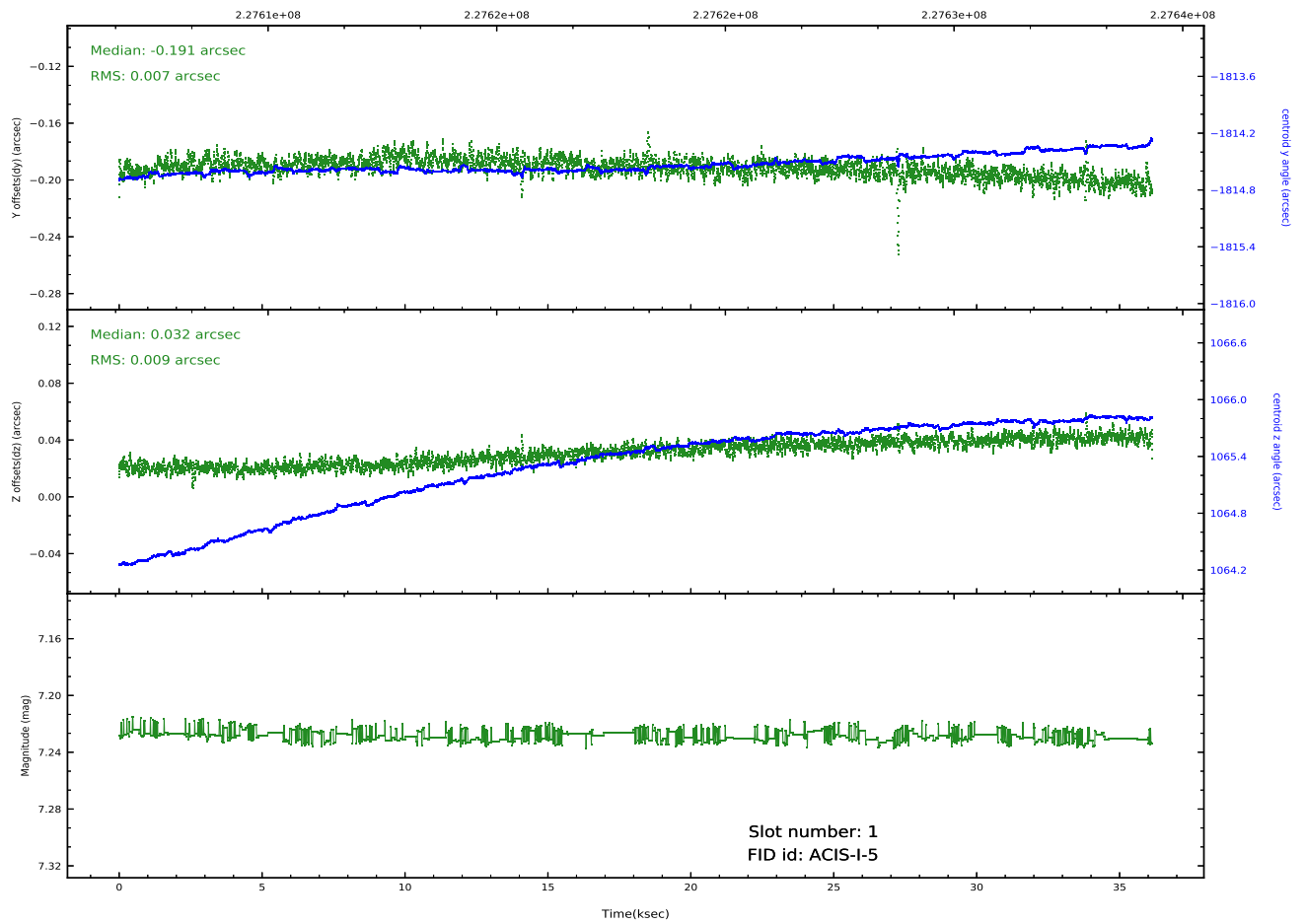
Time (s)



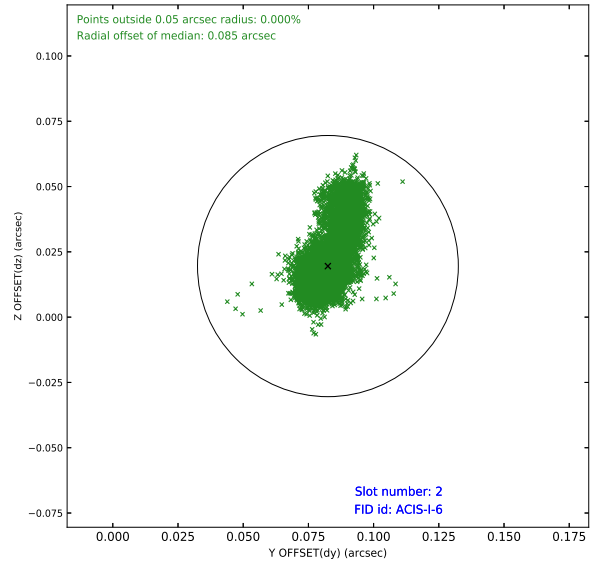
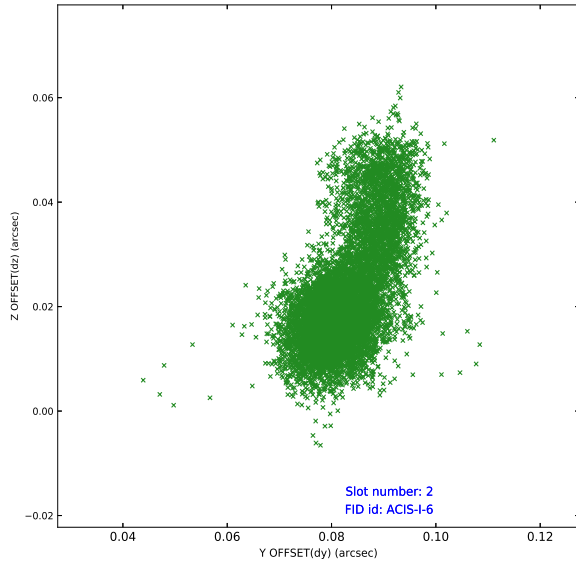
2.5.2 Slot 1



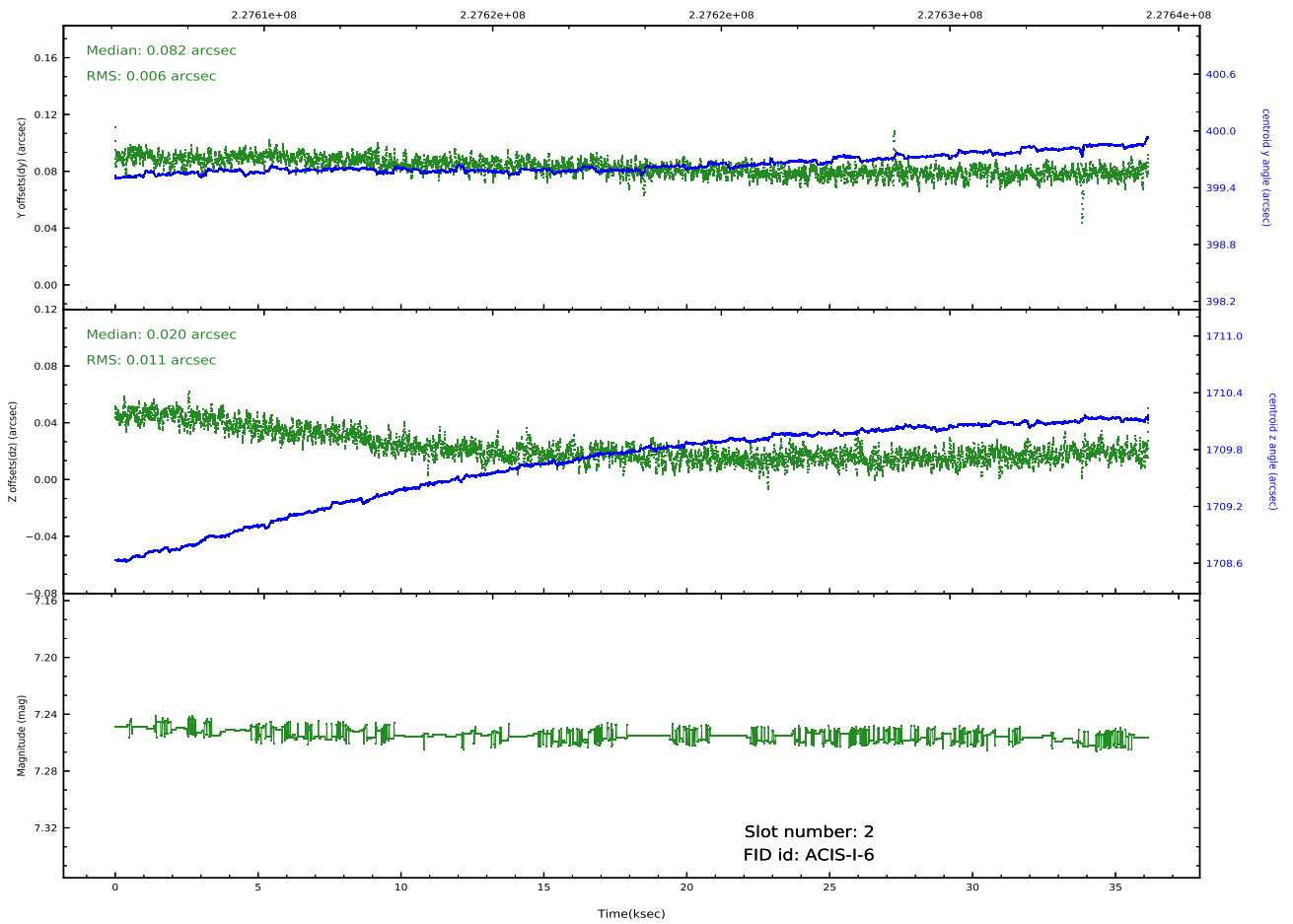
Time (s)



2.5.3 Slot 2



Time (s)



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	36.13759

A.2 Comments

Joint proposal with XMM.