

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 20532 - L2 Version 2
Chandra X-Ray Center

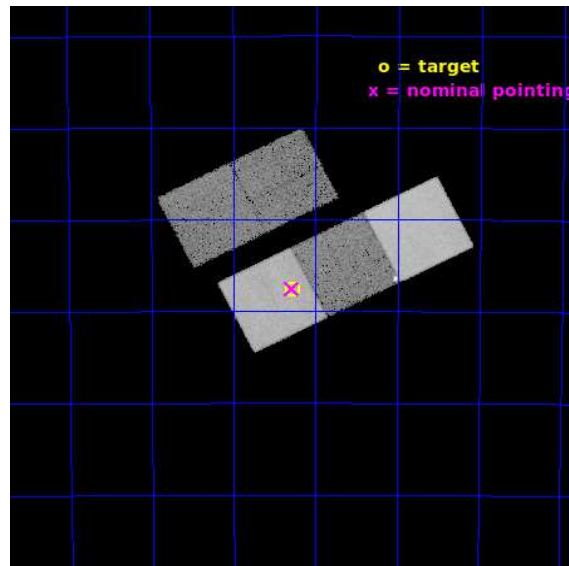
L2 Processing Date : Oct 25 2020

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1 Front

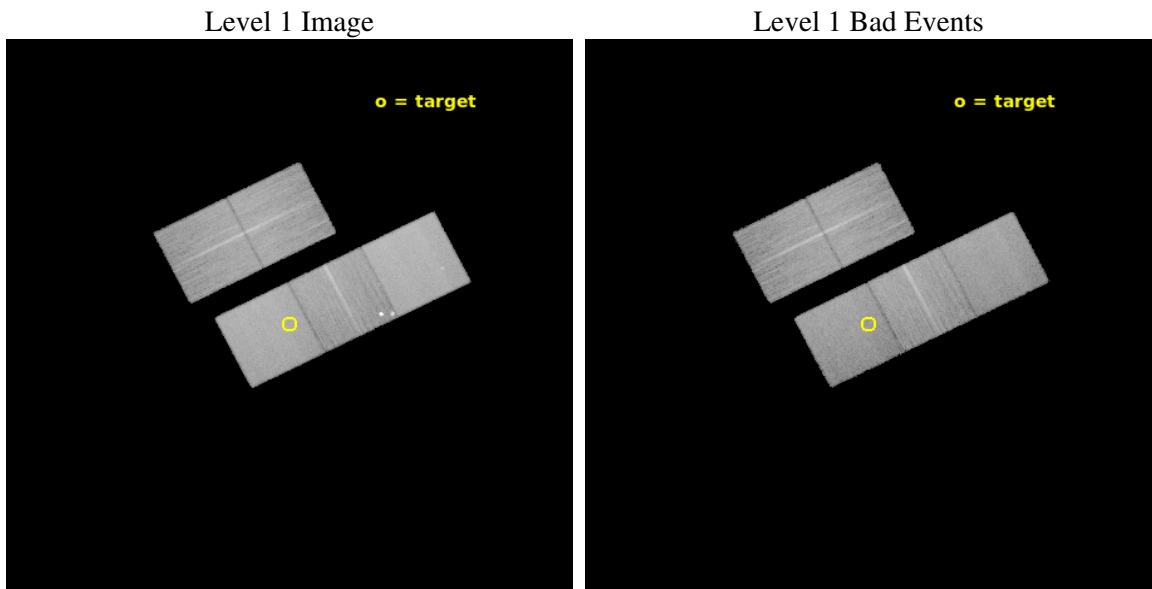
seq_num	801746	Sequence number
obs_id	20532	Observation id
title	Building a complete sample of z>1 XXL galaxy clusters	Proposal tit
observer	Ben Maughan	Principal investigator
object	XXL-S0225	Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	352.819	Observer's specified target RA [deg]
dec_targ	-55.127	Observer's specified target Dec [deg]
ra_nom	352.82210682279	Nominal RA [deg]
dec_nom	-55.125932693212	Nominal Dec [deg]
roll_nom	153.13753937961	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23054.700177431	Sum of GTIs [s]
liveltime	22753.47354699	Livetime [s]
ontime2	23054.700177431	Sum of GTIs [s]
ontime3	23054.700177431	Sum of GTIs [s]
ontime5	23054.700177431	Sum of GTIs [s]
ontime6	23054.700177431	Sum of GTIs [s]
ontime7	23054.700177431	Sum of GTIs [s]
l2events	278160	Number of level 2 events



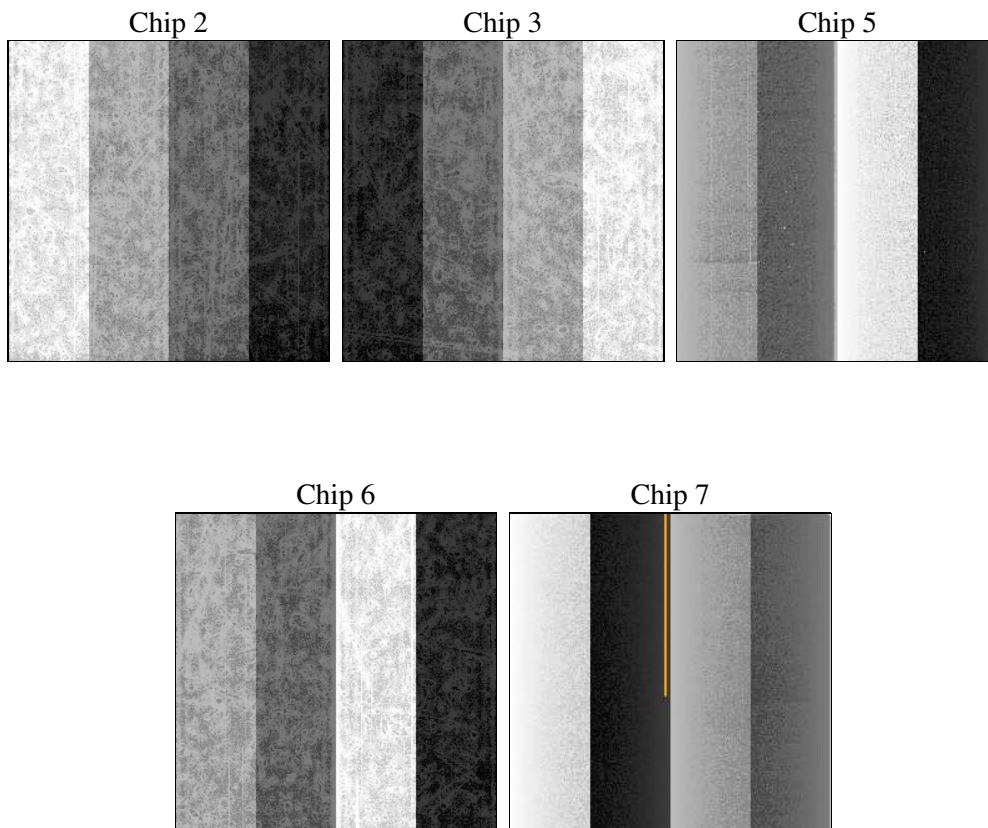
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	23054.700177431	Sum of GTIs [s]
caldbver	4.9.3	 	ontime2	23054.700177431	Sum of GTIs [s]
date	2020-10-25T11:53:07	Date and time of file creation	ontime3	23054.700177431	Sum of GTIs [s]
revision	2	Processing version of data	ontime5	23054.700177431	Sum of GTIs [s]
			ontime6	23054.700177431	Sum of GTIs [s]
			ontime7	23054.700177431	Sum of GTIs [s]
			l1events	1018589	Number of level 1 events

2.1.4 Events

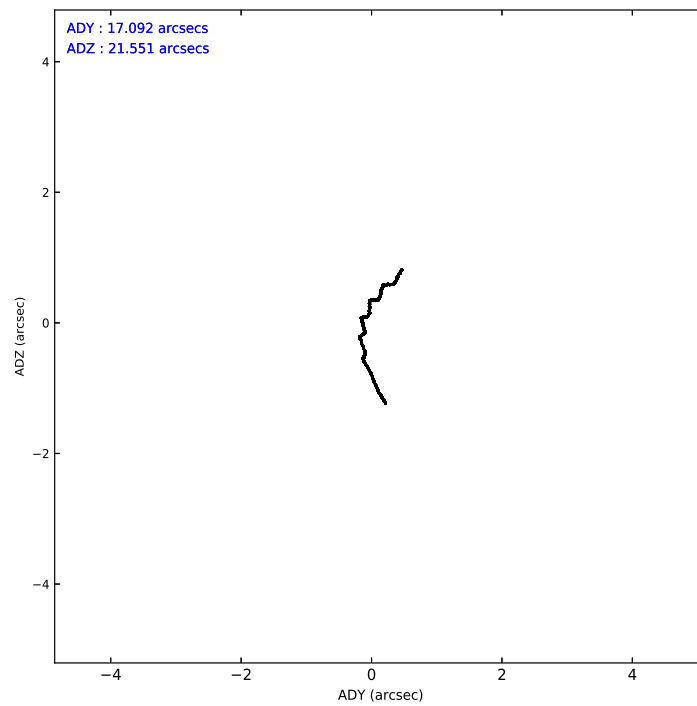
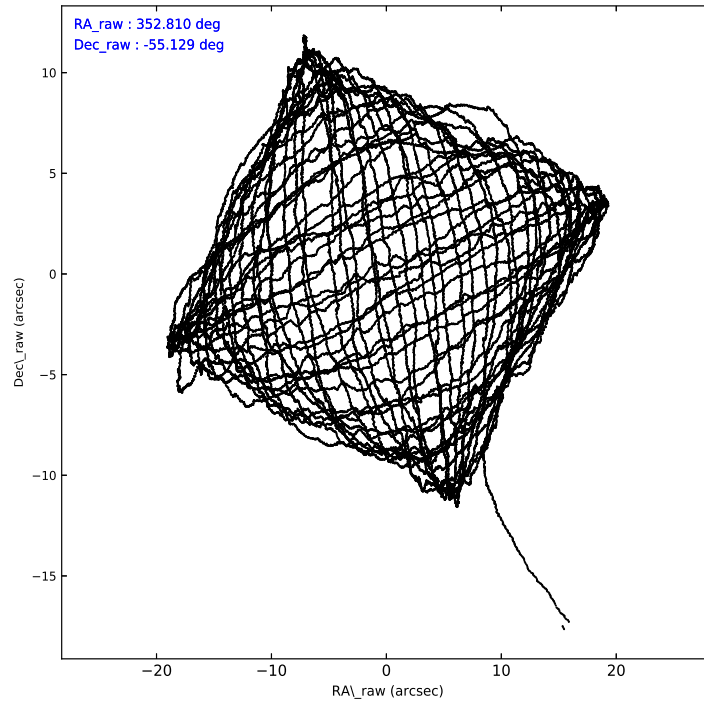
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	180757	163620	269106	183547	221559
rejected events	160238	143210	139066	153594	123113
rejected %	88%	87%	51%	83%	55%

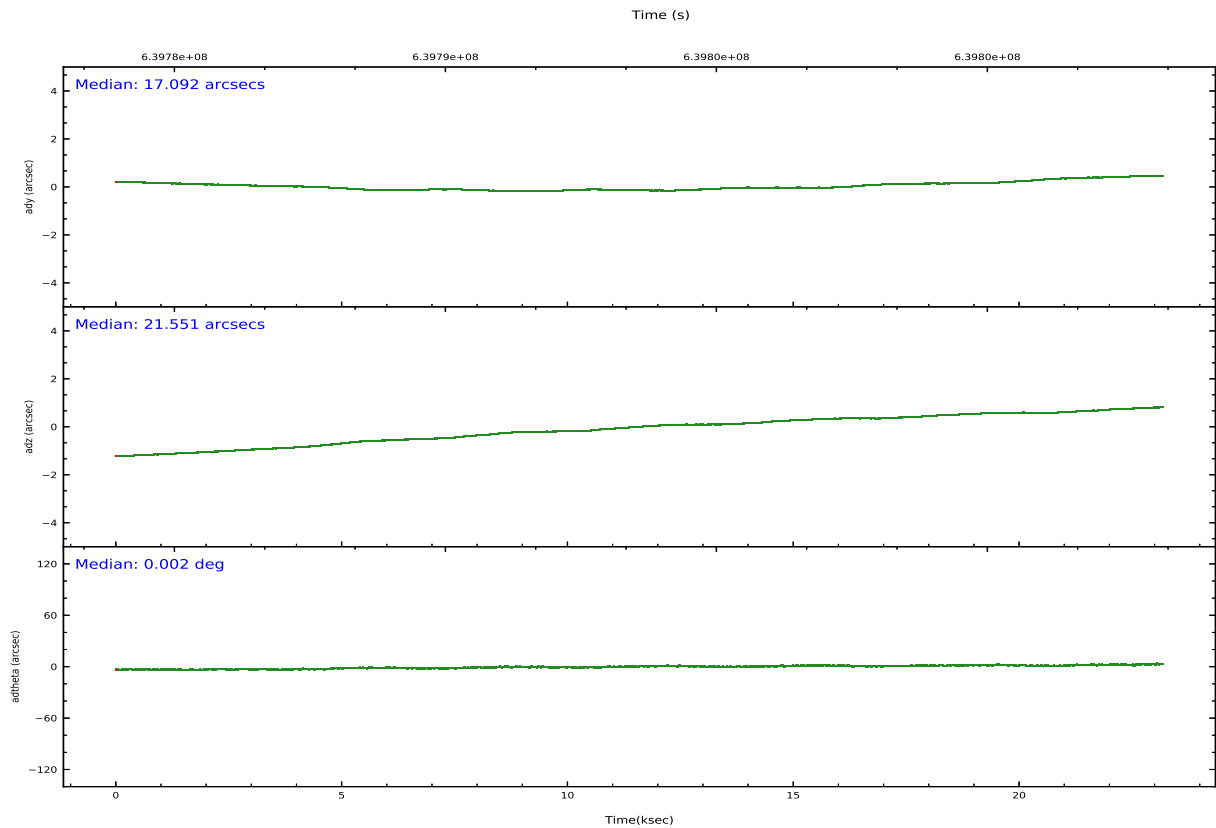
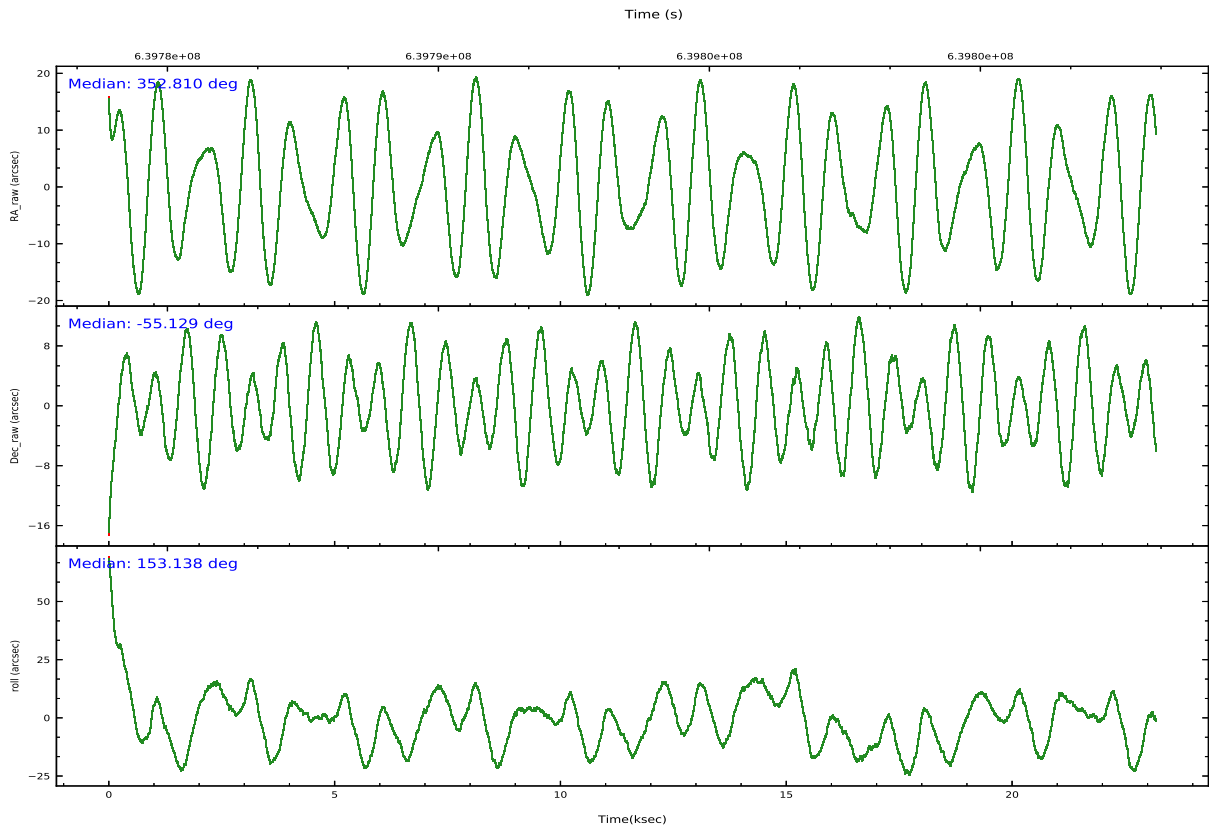
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	7401	7881	7946	14831	8783
	4%	4%	2%	8%	3%
grade 1 events	102	120	588	117	296
	0%	0%	0%	0%	0%
grade 2 events	5017	4234	41449	5297	20914
	2%	2%	15%	2%	9%
grade 3 events	1910	2042	4339	2107	7878
	1%	1%	1%	1%	3%
grade 4 events	2027	2007	4103	2164	8029
	1%	1%	1%	1%	3%
grade 5 events	6759	7946	19295	8137	21937
	3%	4%	7%	4%	9%
grade 6 events	4169	4251	72238	5559	52861
	2%	2%	26%	3%	23%
grade 7 events	153372	135139	119148	145335	100861
	84%	82%	44%	79%	45%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	352.857300	352.82210682279	CCD I2 on	O1	Y
[deg] Pointing Dec	-55.127285	-55.125932693212	CCD I3 on	Y	Y
[deg] Pointing Roll	153.031423	153.13753937961	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	Y	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	N	N
[s] Observation start time (MET)	639782891.184000	639781164.24797	CCD S5 on	N	N
Observation start date	2018-04-10T21:27:02	2018-04-10T20:59:24	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	639805891.184000	639806815.89948	On-chip summing requested	N	N
Observation end date	2018-04-11T03:50:22	2018-04-11T04:06:55	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



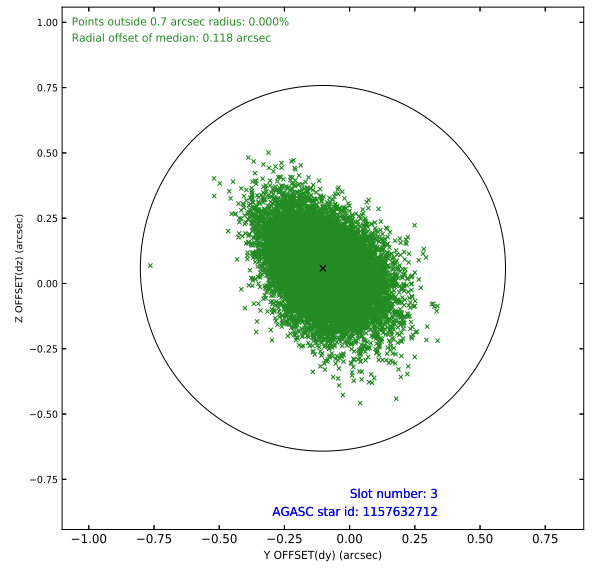
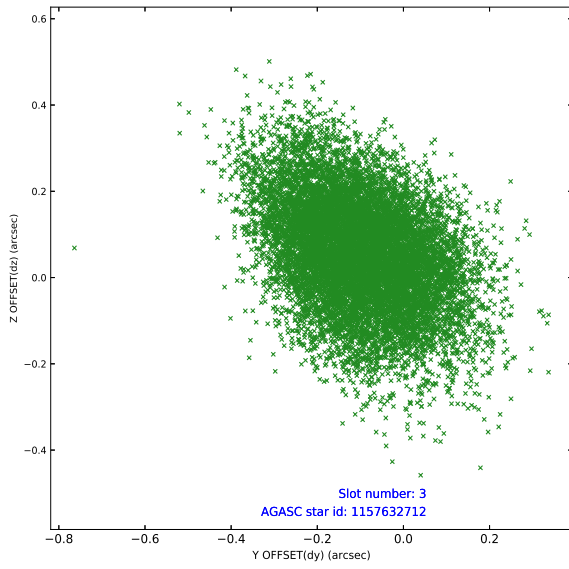


Slot Statistics

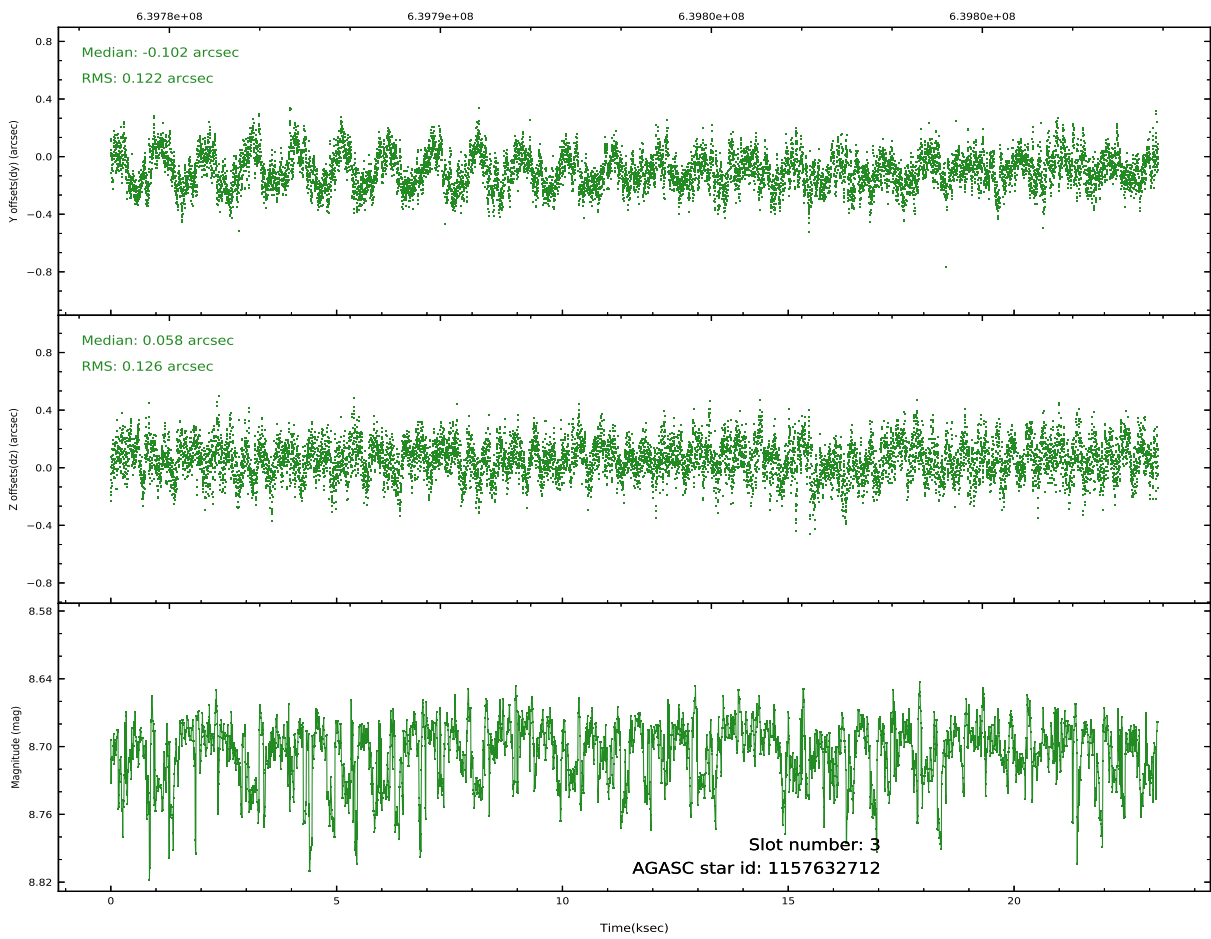
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	6.99	5656	1.000	0.114	-0.075	0.021	0.032	0.000000	0.000000	-770.24	-1742
1	FID		ACIS-S-4	7.10	5656	1.000	0.068	-0.035	0.016	0.042	0.000000	0.000000	2143.14	165
2	FID		ACIS-S-5	7.08	5657	1.000	-0.219	0.118	0.021	0.033	0.000000	0.000000	-1823.03	159
3	GUIDE	used	1157632712	8.70	11306	1.000	-0.102	0.058	0.185	0.304	352.239335	-54.471579	2220.41	-1511
4	GUIDE	used	1157636648	9.25	11292	1.000	0.224	-0.226	0.208	0.323	353.192393	-54.996097	-402.47	-733
5	GUIDE	used	1158030320	9.49	11299	1.000	0.021	0.056	0.271	0.413	353.883827	-55.255798	-2093.12	-528
6	GUIDE	used	1158030960	8.29	11305	1.000	-0.199	0.095	0.172	0.302	353.715995	-55.176422	-1658.33	-633
7	GUIDE	used	1157630512	10.02	11242	1.000	0.049	0.017	0.338	0.533	352.257677	-54.339669	2405.34	-1951

2.4 Star Slots

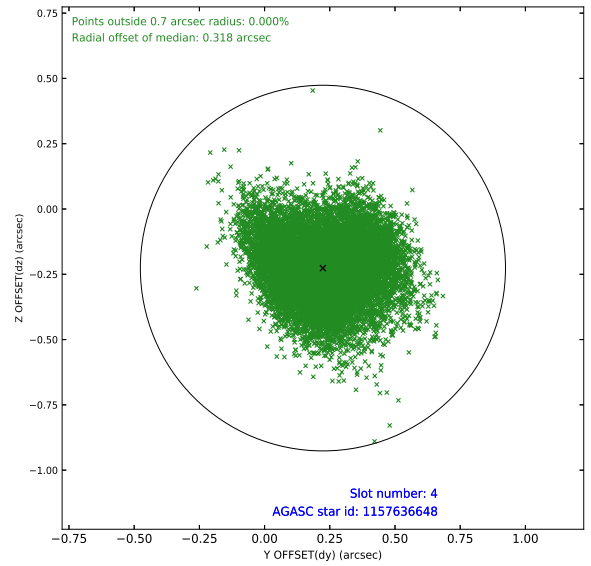
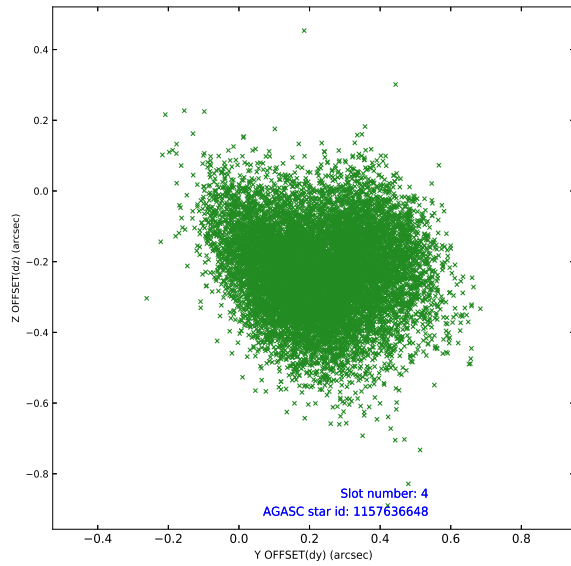
2.4.1 Slot 3



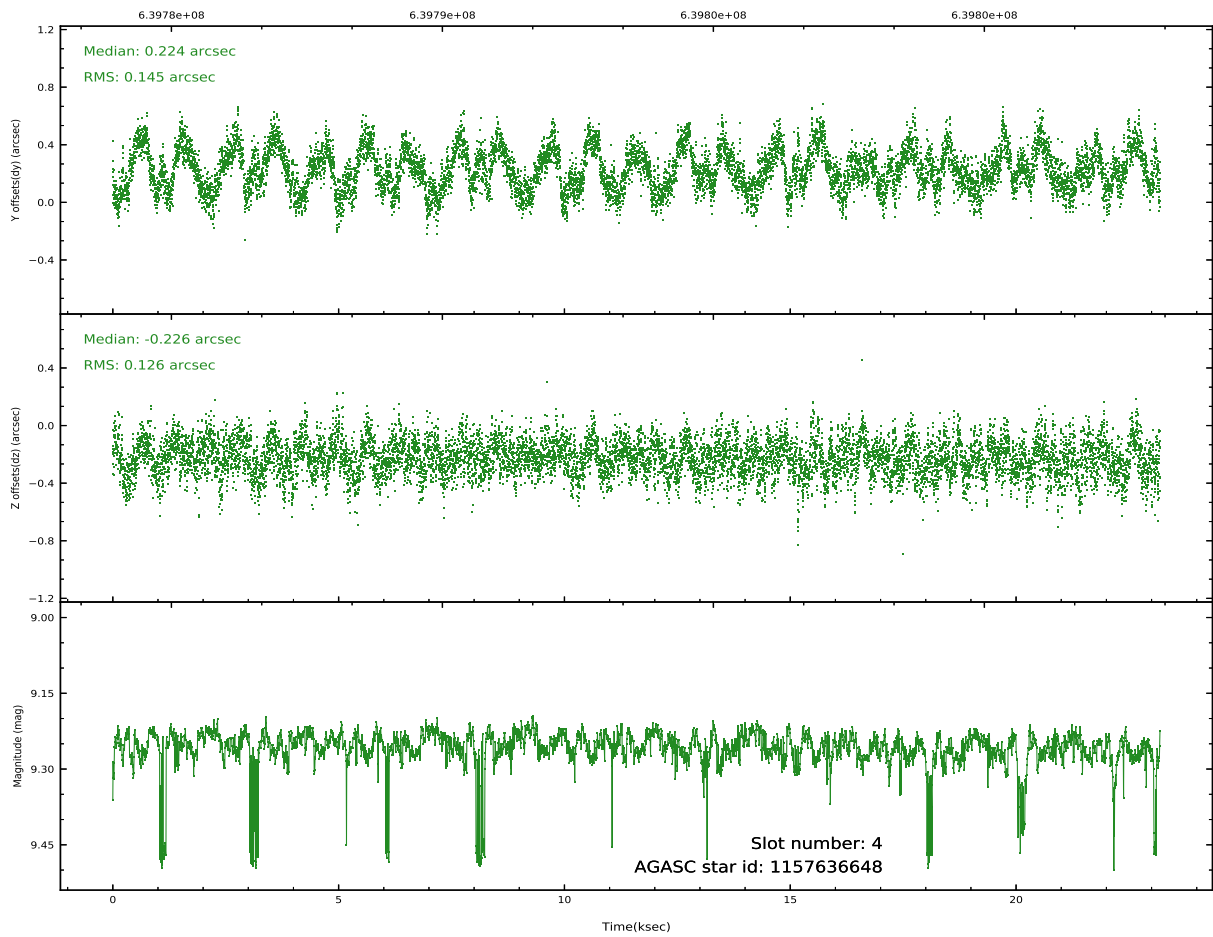
Time (s)



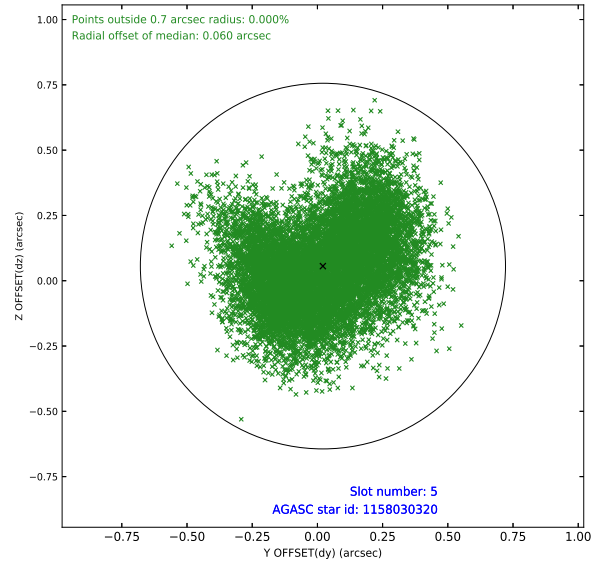
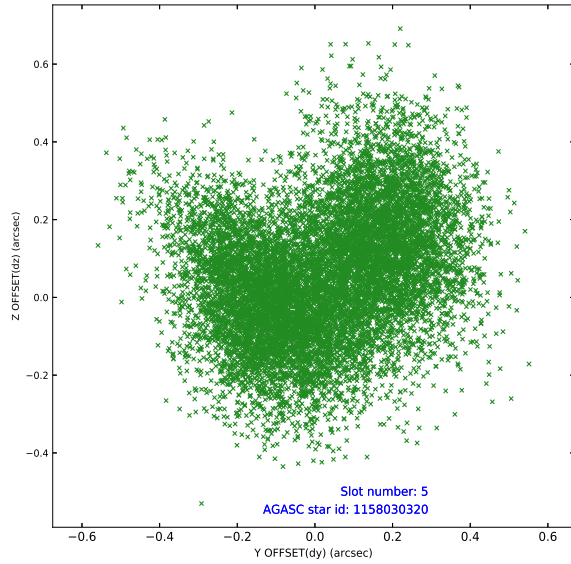
2.4.2 Slot 4



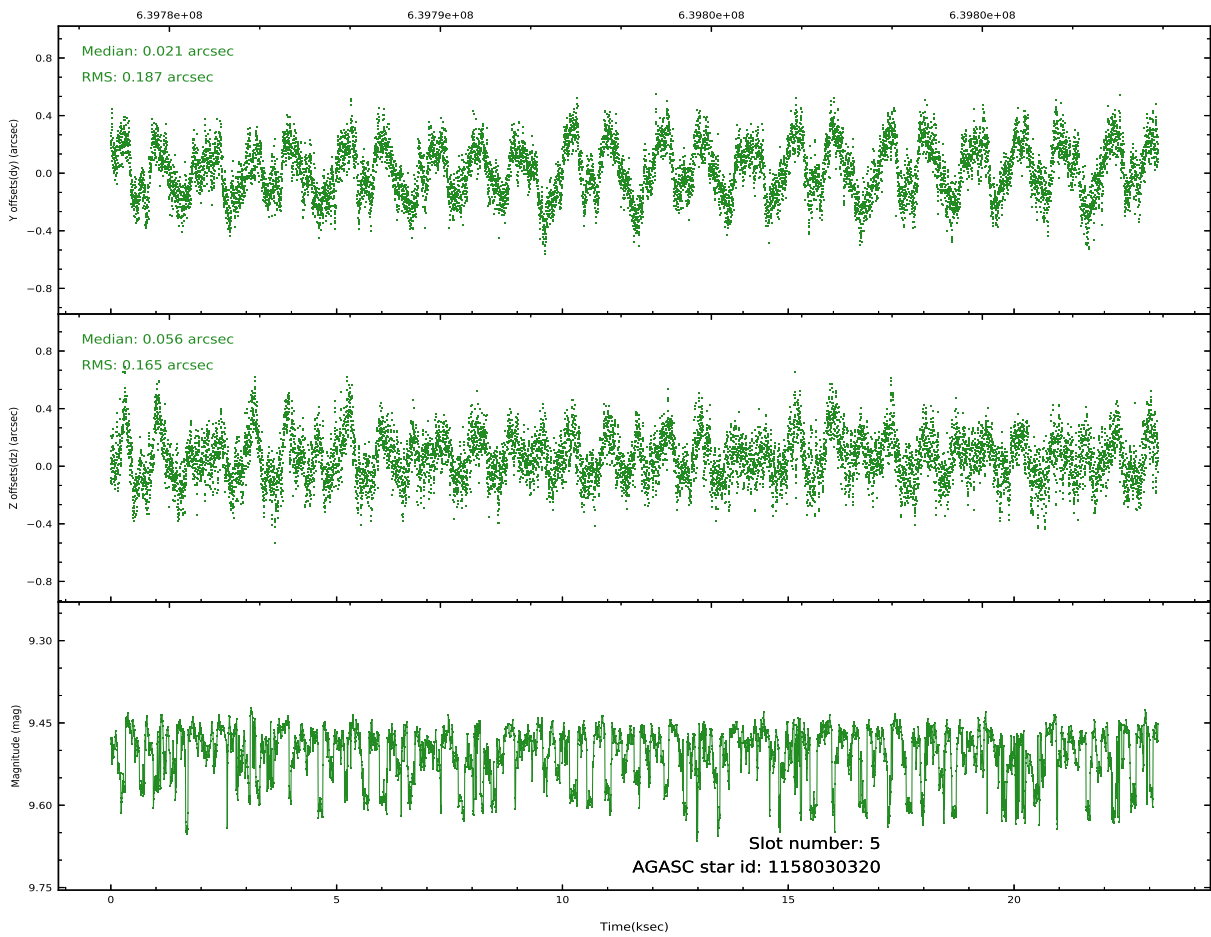
Time (s)



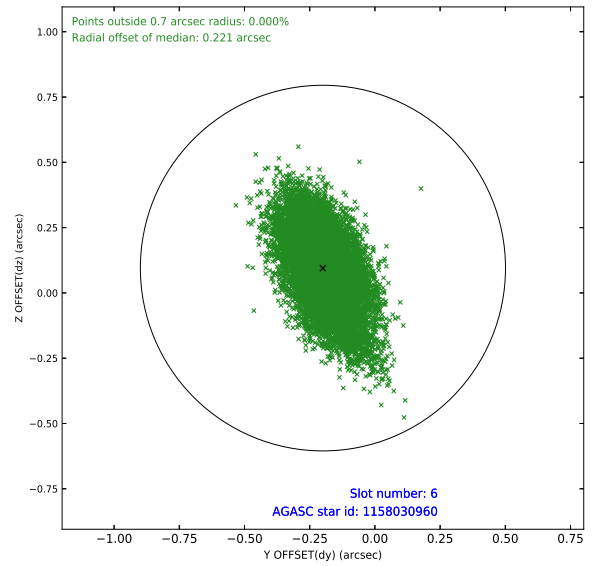
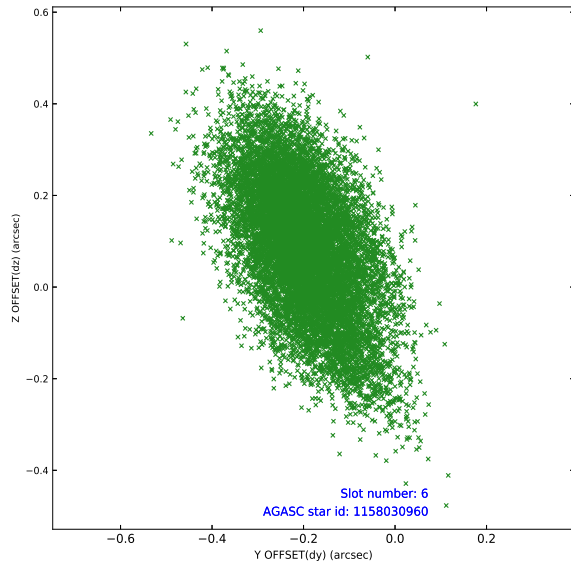
2.4.3 Slot 5



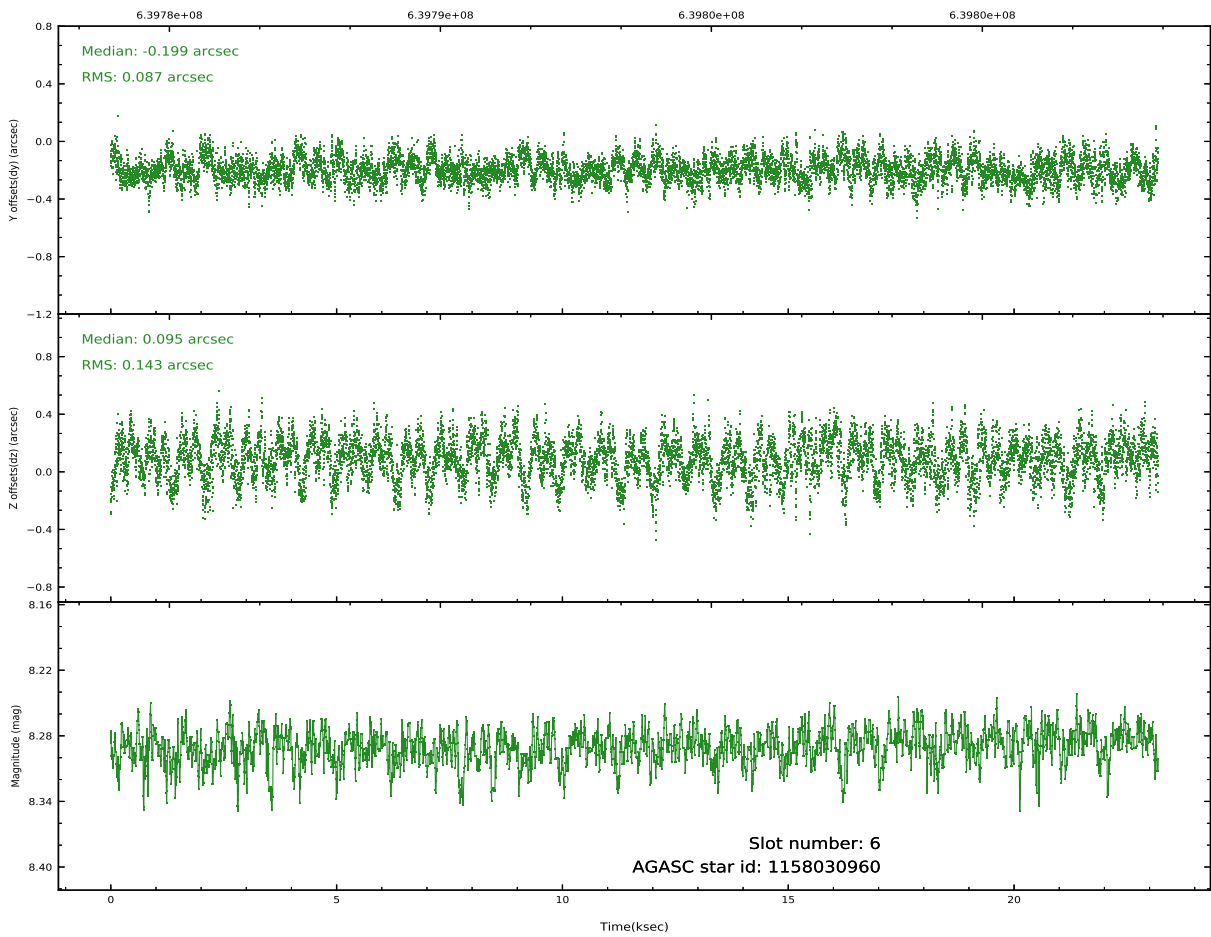
Time (s)



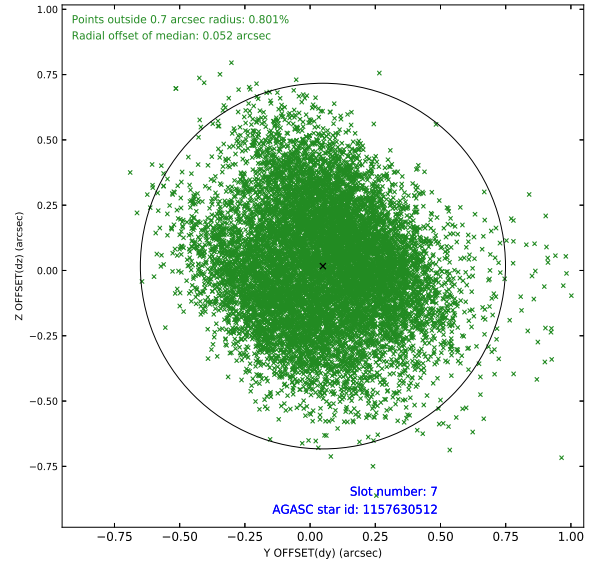
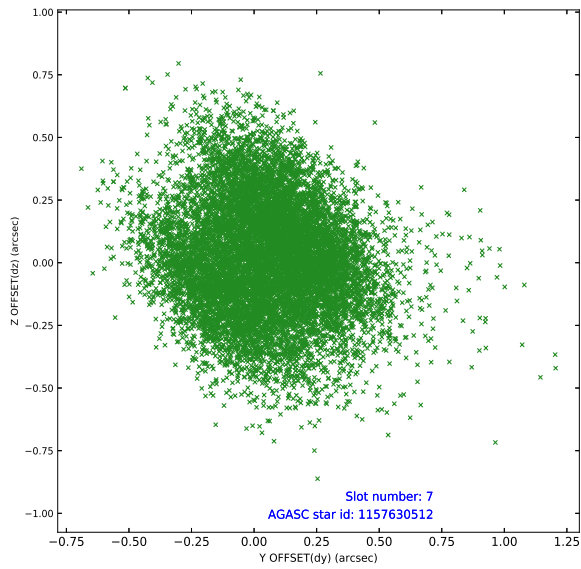
2.4.4 Slot 6



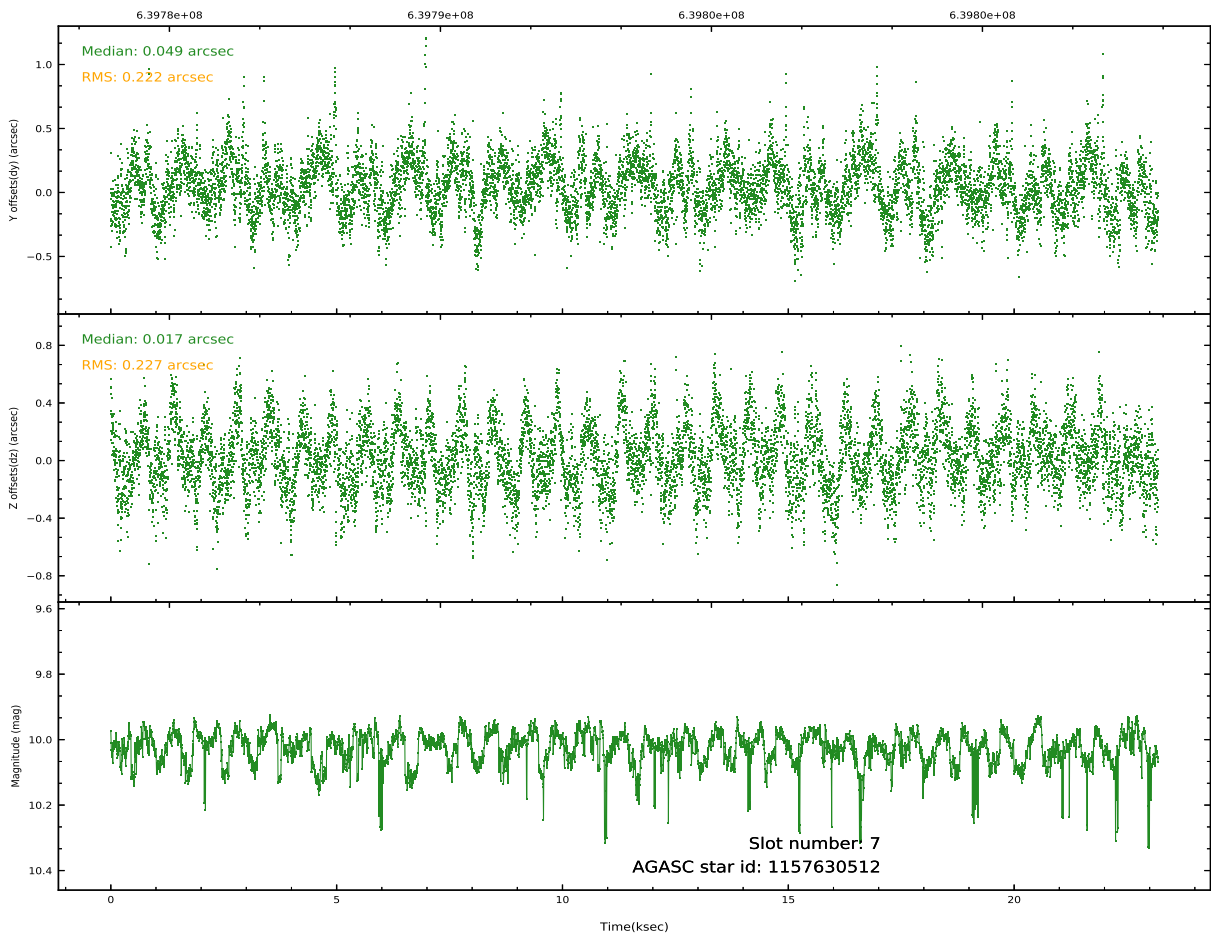
Time (s)



2.4.5 Slot 7

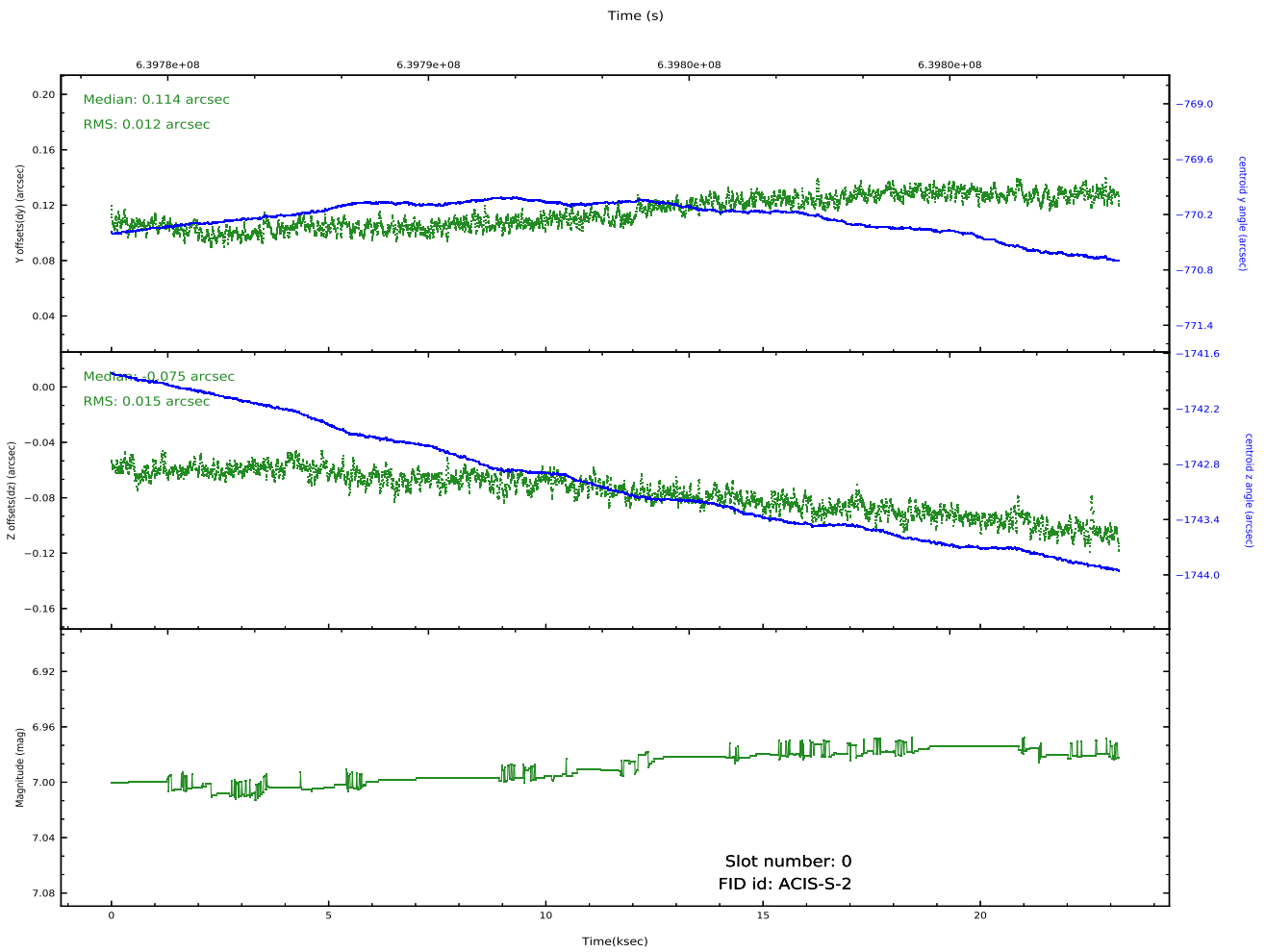
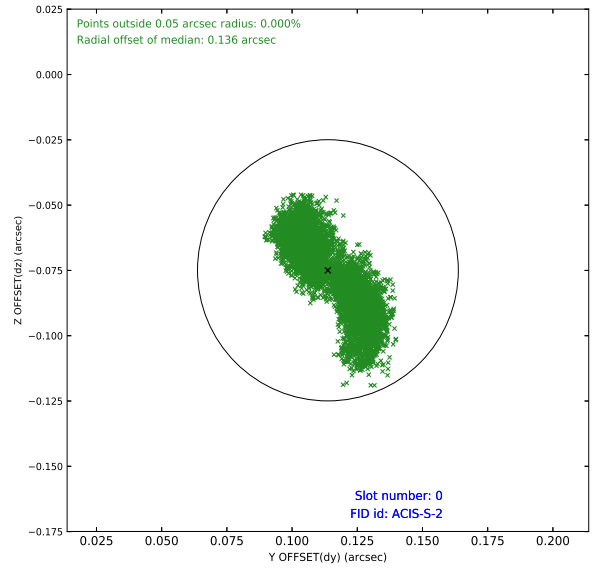
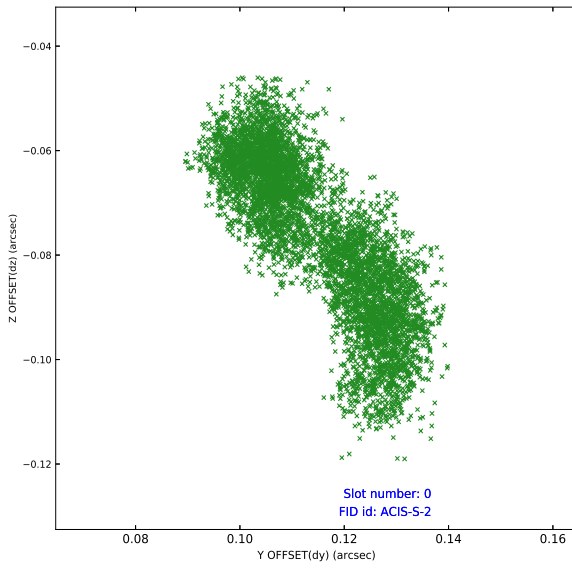


Time (s)

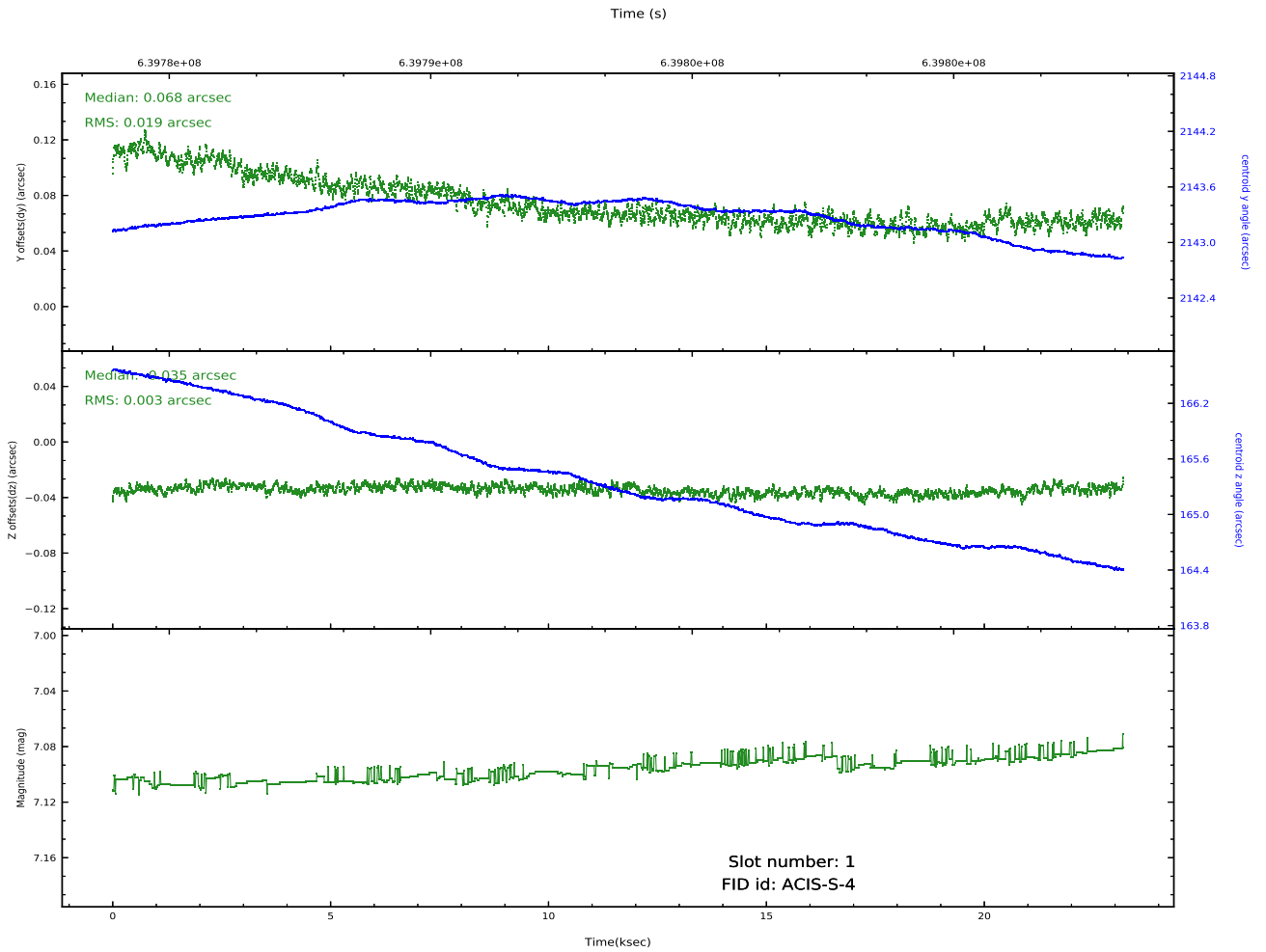
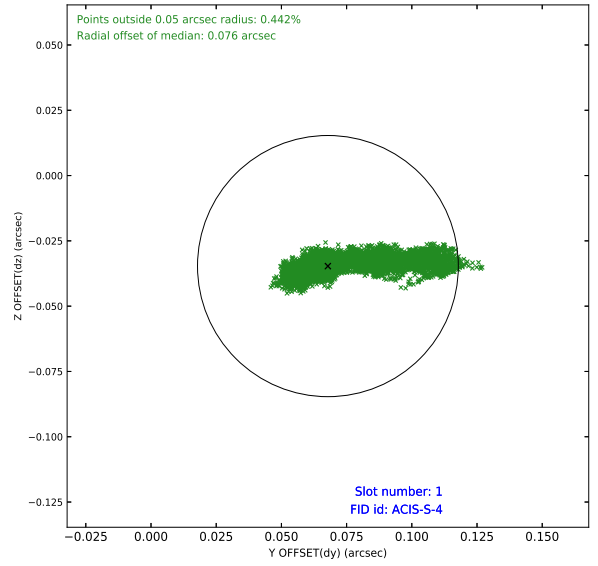
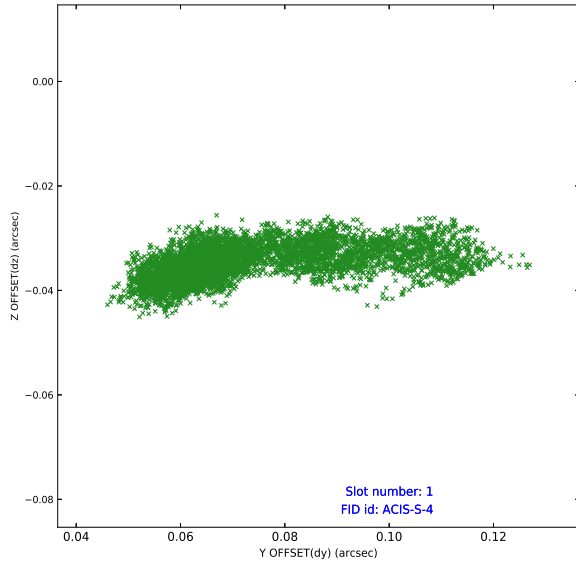


2.5 FID Slots

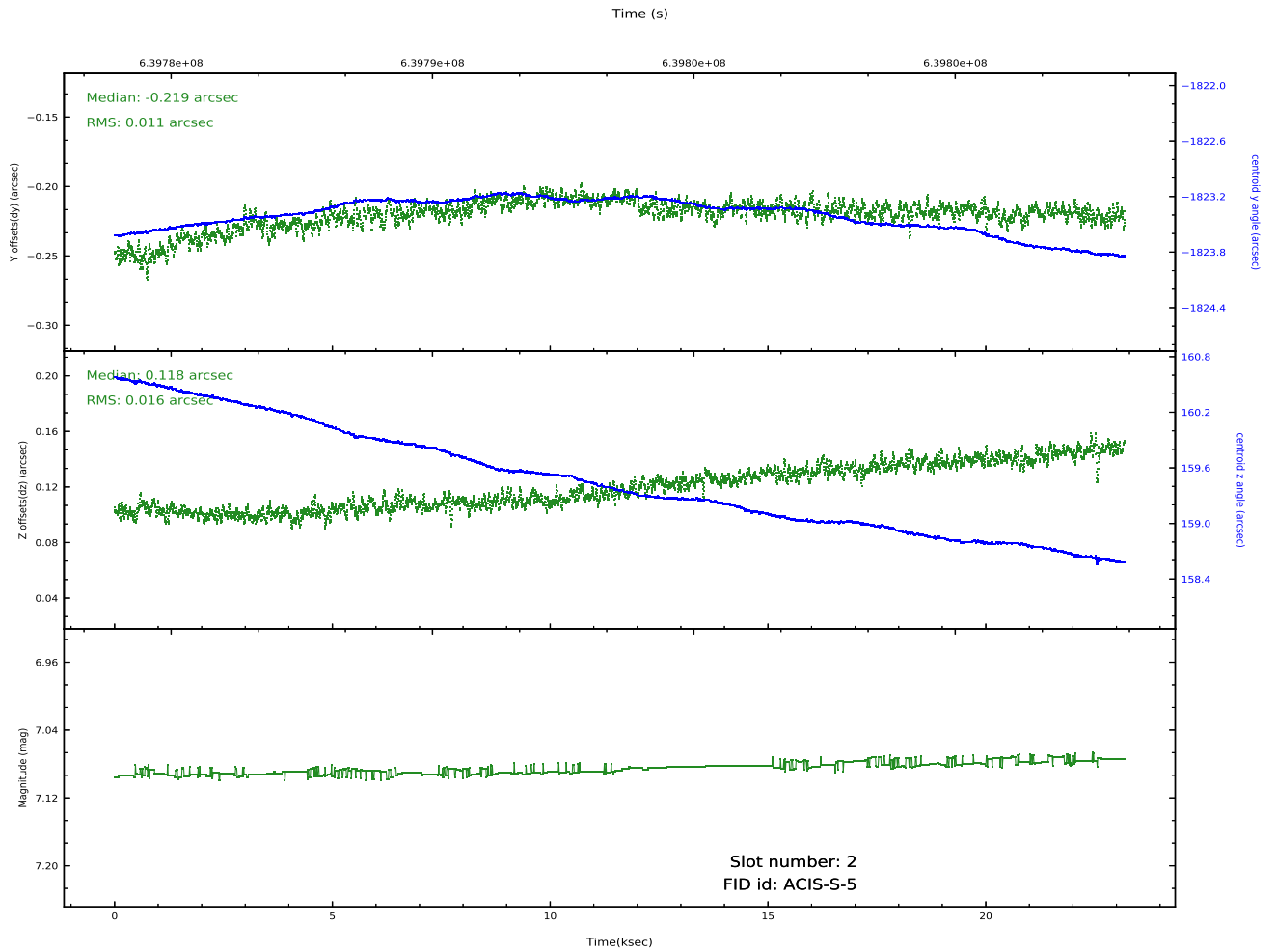
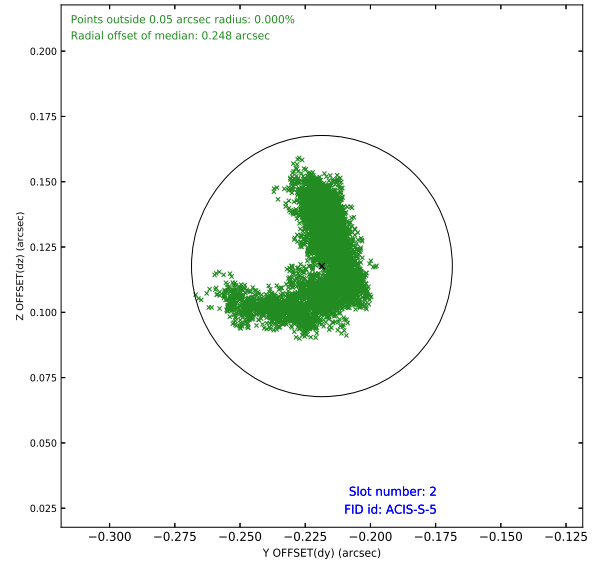
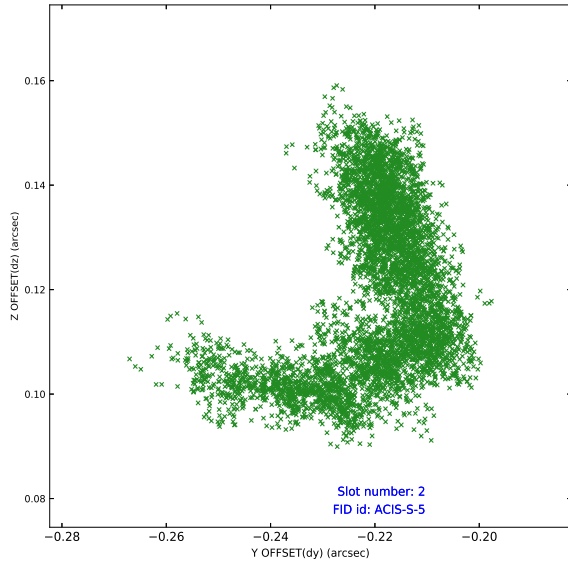
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.054700177431

A.2 Comments