

V&V Reference Report

L2 ASCDS Version : 10.9.2

Observation 19421 - L2 Version 2
Chandra X-Ray Center

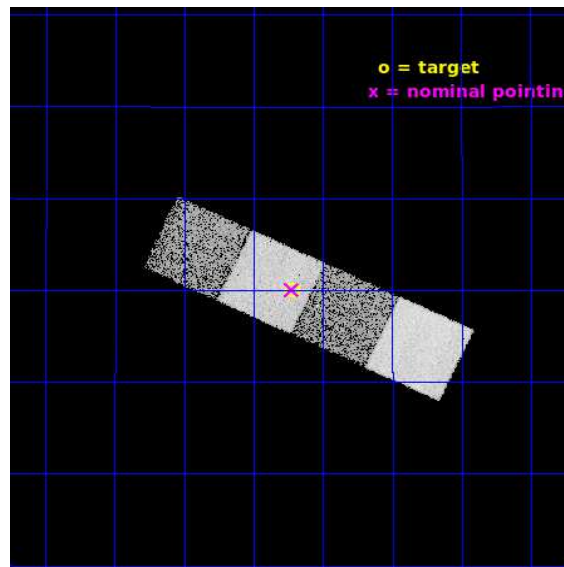
L2 Processing Date : Oct 25 2020

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1 Front

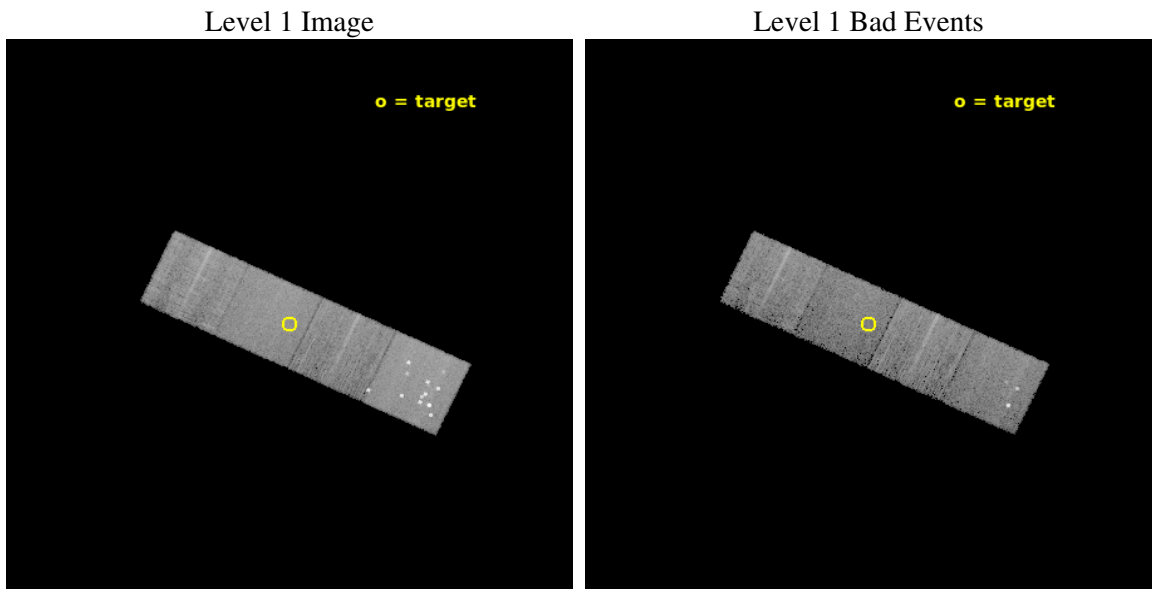
seq_num	601378	Sequence number
obs_id	19421	Observation id
title	Spiral galaxies of the Virgo cluster	Proposal title
observer	Roberto Soria	Principal investigator
object	IC 3392	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	187.180417	Observer's specified target RA [deg]
dec_targ	14.9995	Observer's specified target Dec [deg]
ra_nom	187.18094918712	Nominal RA [deg]
dec_nom	15.001185321383	Nominal Dec [deg]
roll_nom	205.14337426612	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7709.7000594139	Sum of GTIs [s]
liveltime	7608.9671523391	Livetime [s]
ontime5	7709.7000594139	Sum of GTIs [s]
ontime6	7709.7000594139	Sum of GTIs [s]
ontime7	7709.7000594139	Sum of GTIs [s]
ontime8	7697.1357785463	Sum of GTIs [s]
l2events	83804	Number of level 2 events



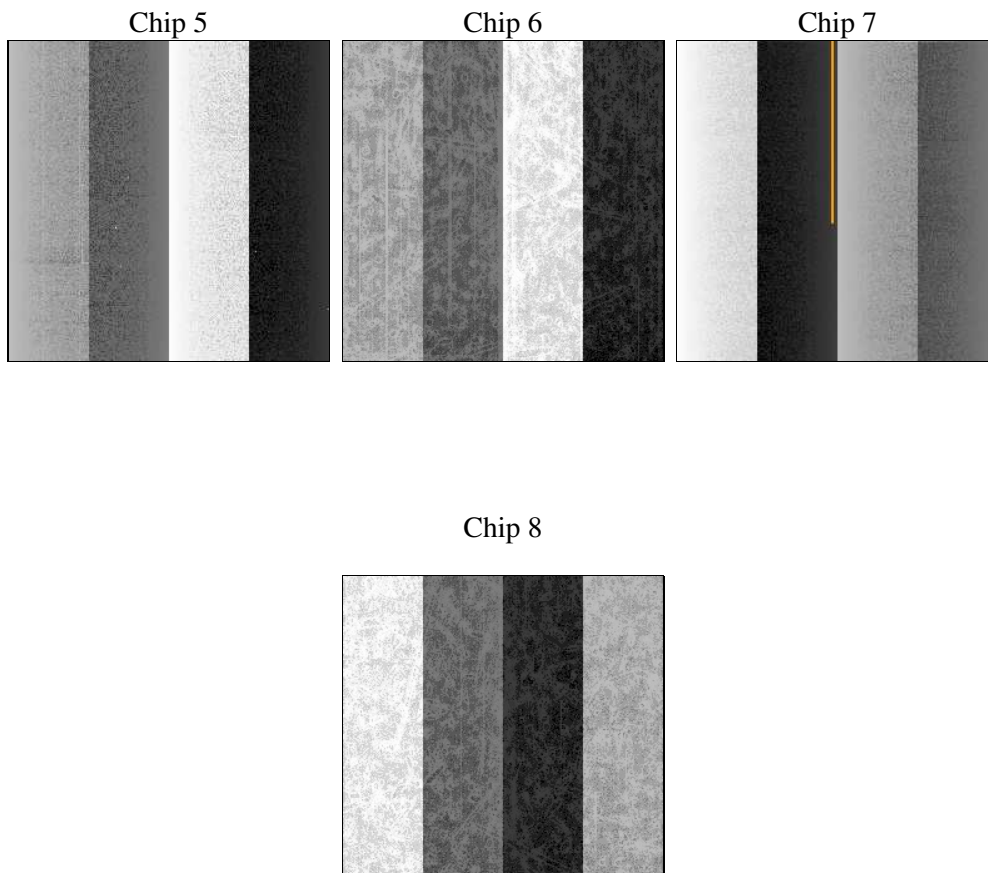
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	7800.000000	[s] Scheduled observation exposure time
ascdsver	10.9.2	Processing system revision	ontime	7709.7000594139	Sum of GTIs [s]
caldsver	4.9.3	 	ontime5	7709.7000594139	Sum of GTIs [s]
date	2020-10-25T11:51:42	Date and time of file creation	ontime6	7709.7000594139	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	7709.7000594139	Sum of GTIs [s]
			ontime8	7697.1357785463	Sum of GTIs [s]
			l1events	323176	Number of level 1 events

2.1.4 Events

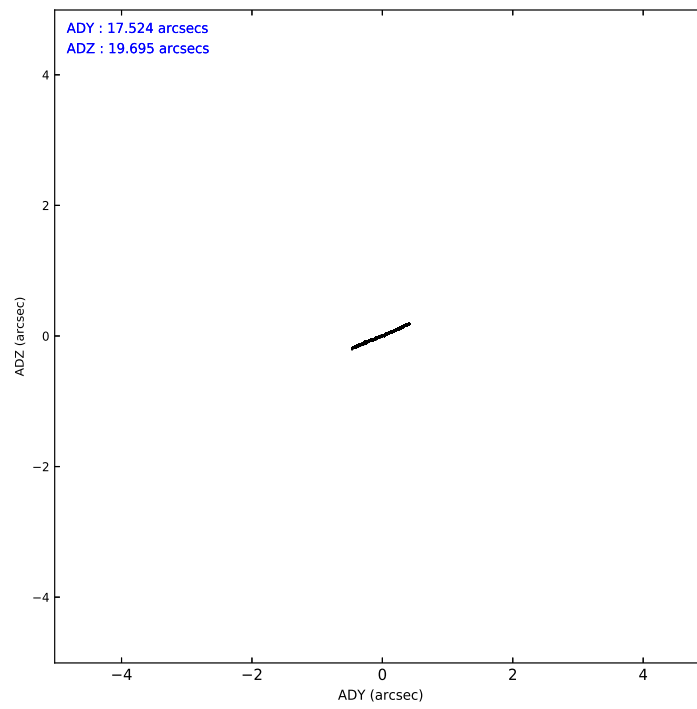
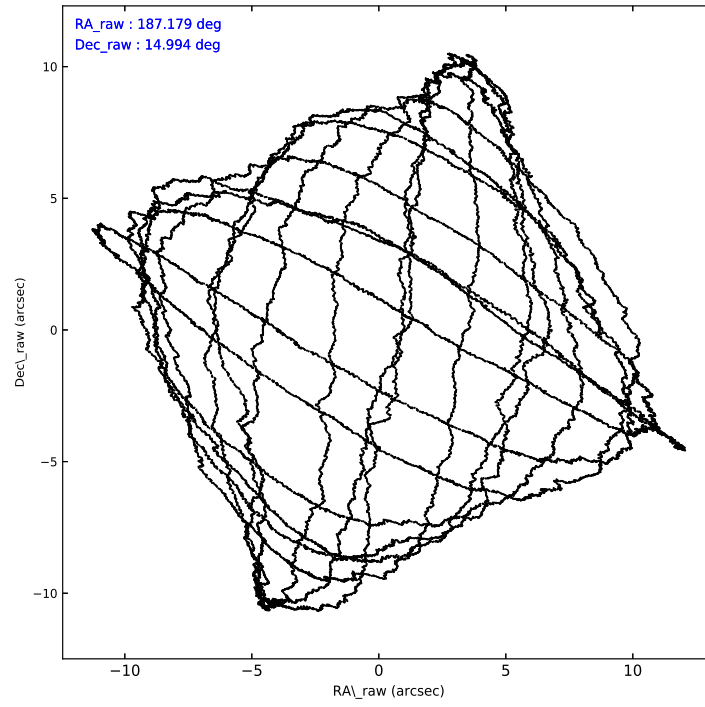
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	115469	59604	73543	74560
rejected events	51091	52960	41745	56131
rejected %	44%	88%	56%	75%

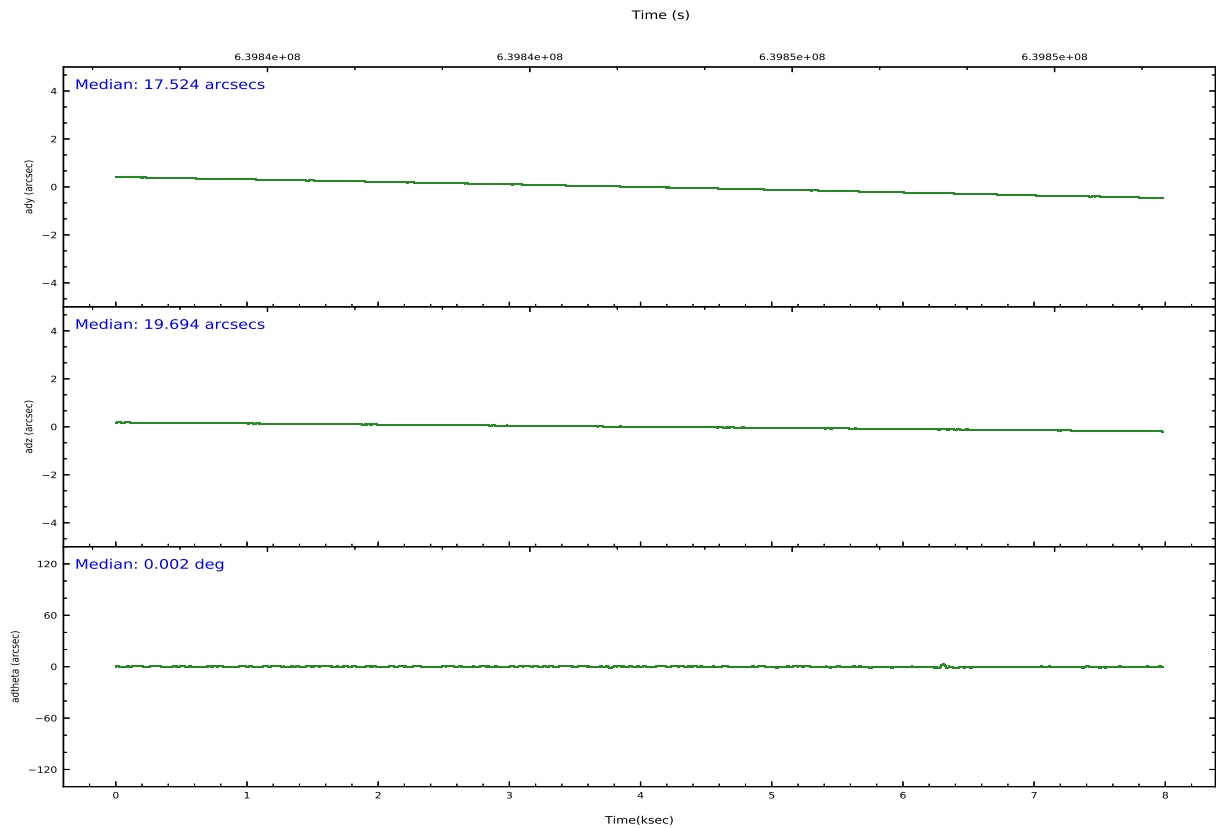
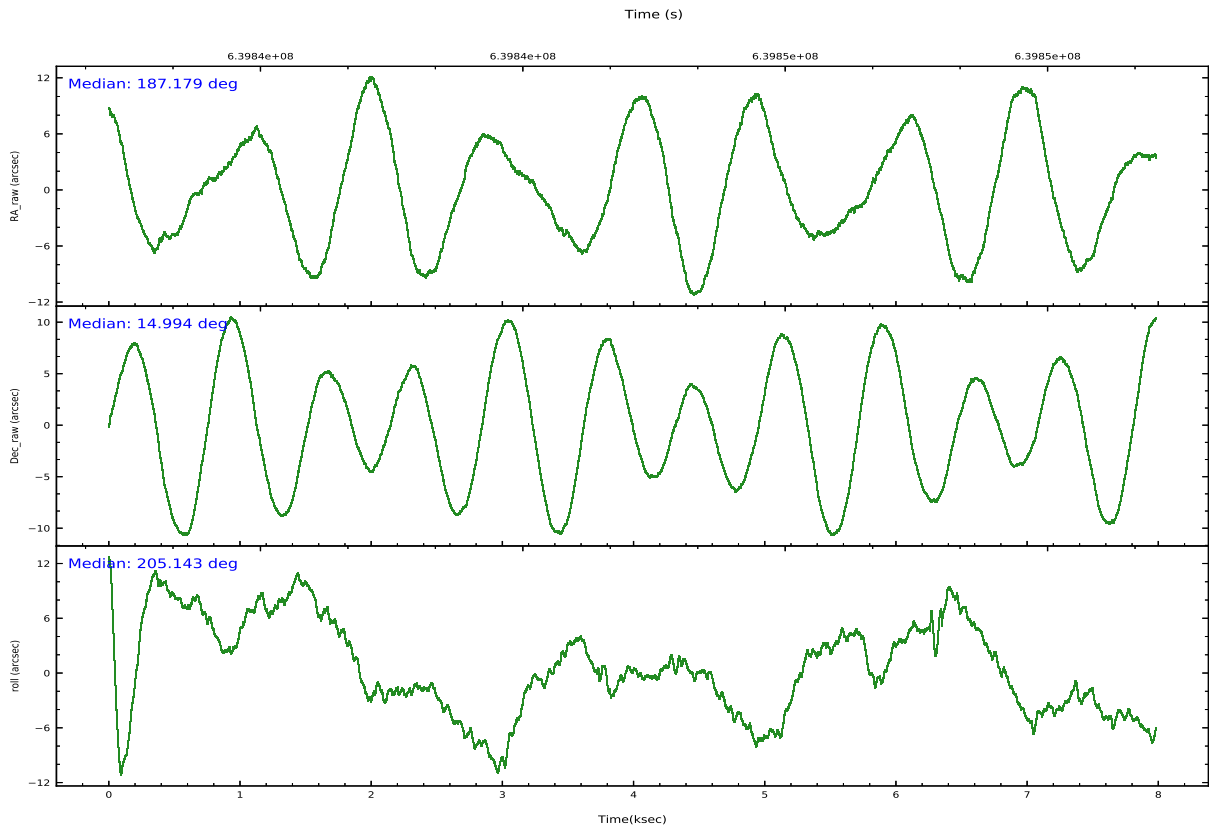
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	16405	2167	2765	5100
	14%	3%	3%	6%
grade 1 events	269	22	108	60
	0%	0%	0%	0%
grade 2 events	18652	1624	6546	4473
	16%	2%	8%	5%
grade 3 events	2616	576	2506	1913
	2%	0%	3%	2%
grade 4 events	2206	603	2395	1795
	1%	1%	3%	2%
grade 5 events	6370	2466	7034	3878
	5%	4%	9%	5%
grade 6 events	24524	1677	17595	5149
	21%	2%	23%	6%
grade 7 events	44427	50469	34594	52192
	38%	84%	47%	70%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-5678	ACIS-5678	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	187.194630	187.18094918712	Subarray requested	NONE	NONE
[deg] Pointing Dec	15.016599	15.001185321383	Alternating exposures requested	N	N
[deg] Pointing Roll	204.996325	205.14337426612	[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	-190.145094680475			
[mm] SIM translation stage offset	0	0.01257209746719923			
[s] Observation start time (MET)	639841028.184000	639840607.07647			
Observation start date	2018-04-11T13:35:59	2018-04-11T13:30:07			
[s] Observation end time (MET)	639848828.184000	639849666.53951			
Observation end date	2018-04-11T15:45:59	2018-04-11T16:01:06			
Read mode	TIMED	TIMED			

2.3 Aspect



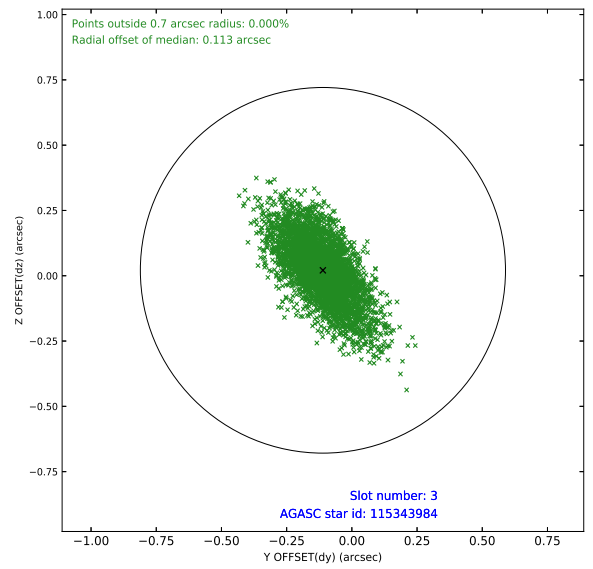
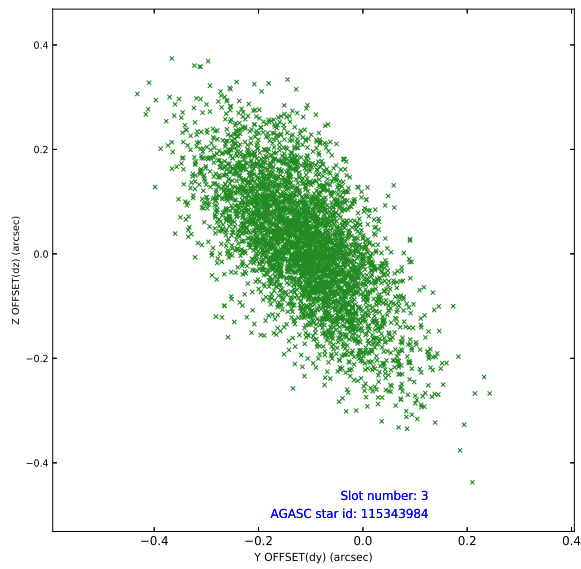


Slot Statistics

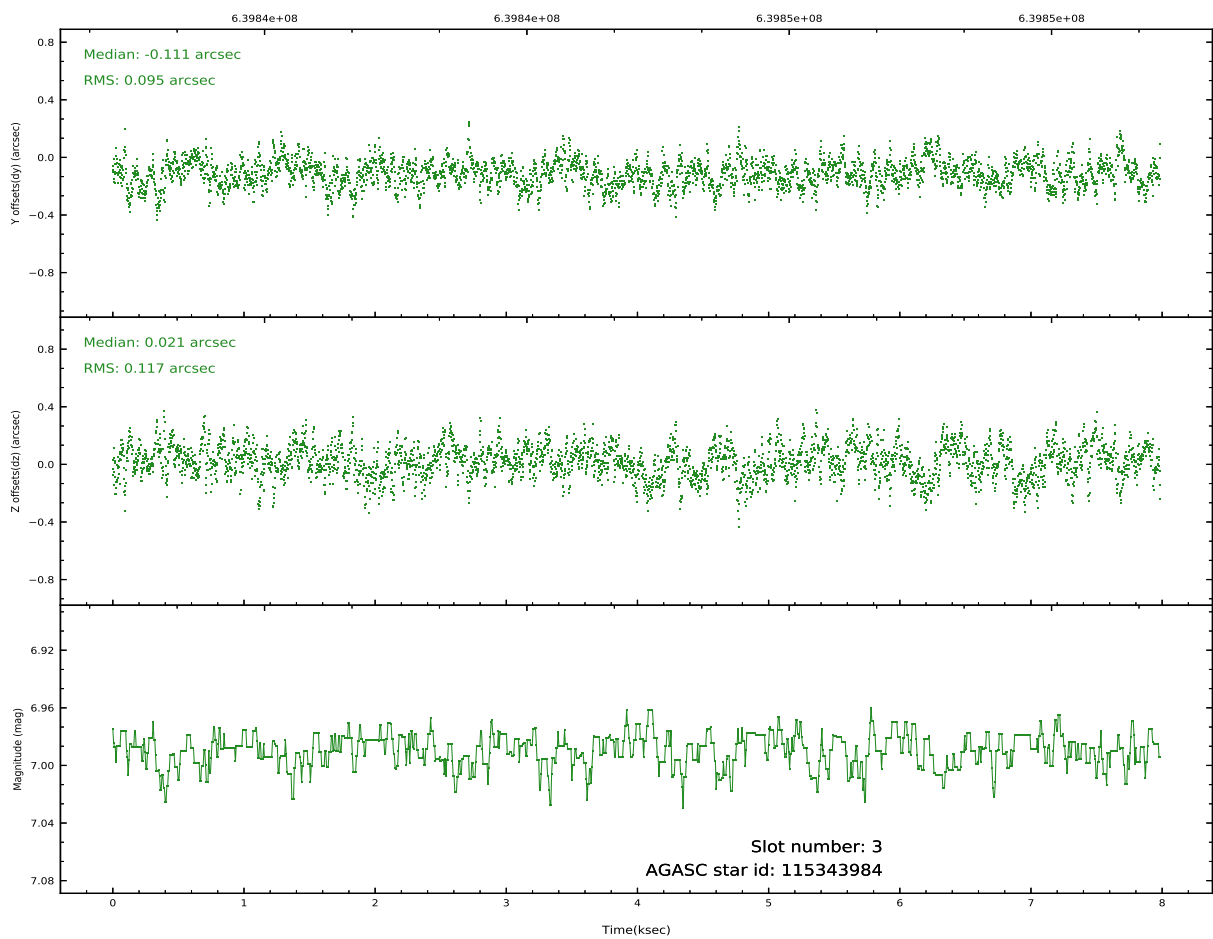
slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.12	1948	1.000	0.117	-0.091	0.013	0.020	0.000000	0.000000	-770.63	-1741
1	FID		ACIS-S-4	7.22	1948	1.000	0.149	-0.032	0.012	0.019	0.000000	0.000000	2142.56	166
2	FID		ACIS-S-5	7.21	1948	1.000	-0.297	0.132	0.008	0.014	0.000000	0.000000	-1822.78	161
3	GUIDE	used	115343984	6.99	3896	1.000	-0.111	0.021	0.153	0.279	187.445111	14.650185	-232.91	1563
4	GUIDE	used	189399064	8.57	3891	1.000	-0.027	0.126	0.146	0.256	187.048930	15.252486	99.73	-982
5	GUIDE	used	189399280	9.91	3863	1.000	0.070	-0.312	0.324	0.518	186.536897	15.337958	1580.57	-2016
6	GUIDE	used	189402160	9.55	3890	1.000	-0.017	0.096	0.191	0.342	186.723517	15.477538	781.04	-2196
7	GUIDE	used	189402384	8.73	3894	1.000	0.077	0.068	0.168	0.299	187.044872	15.618538	-444.00	-2184

2.4 Star Slots

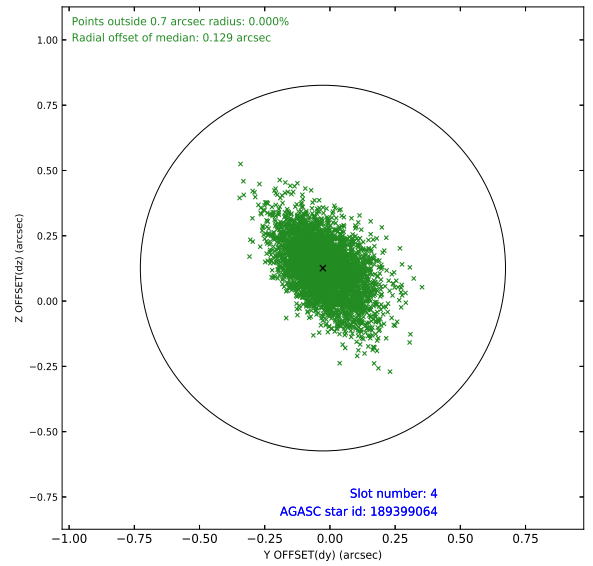
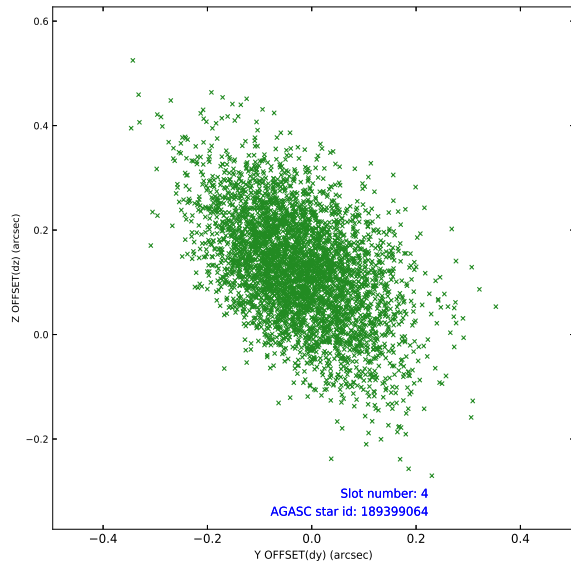
2.4.1 Slot 3



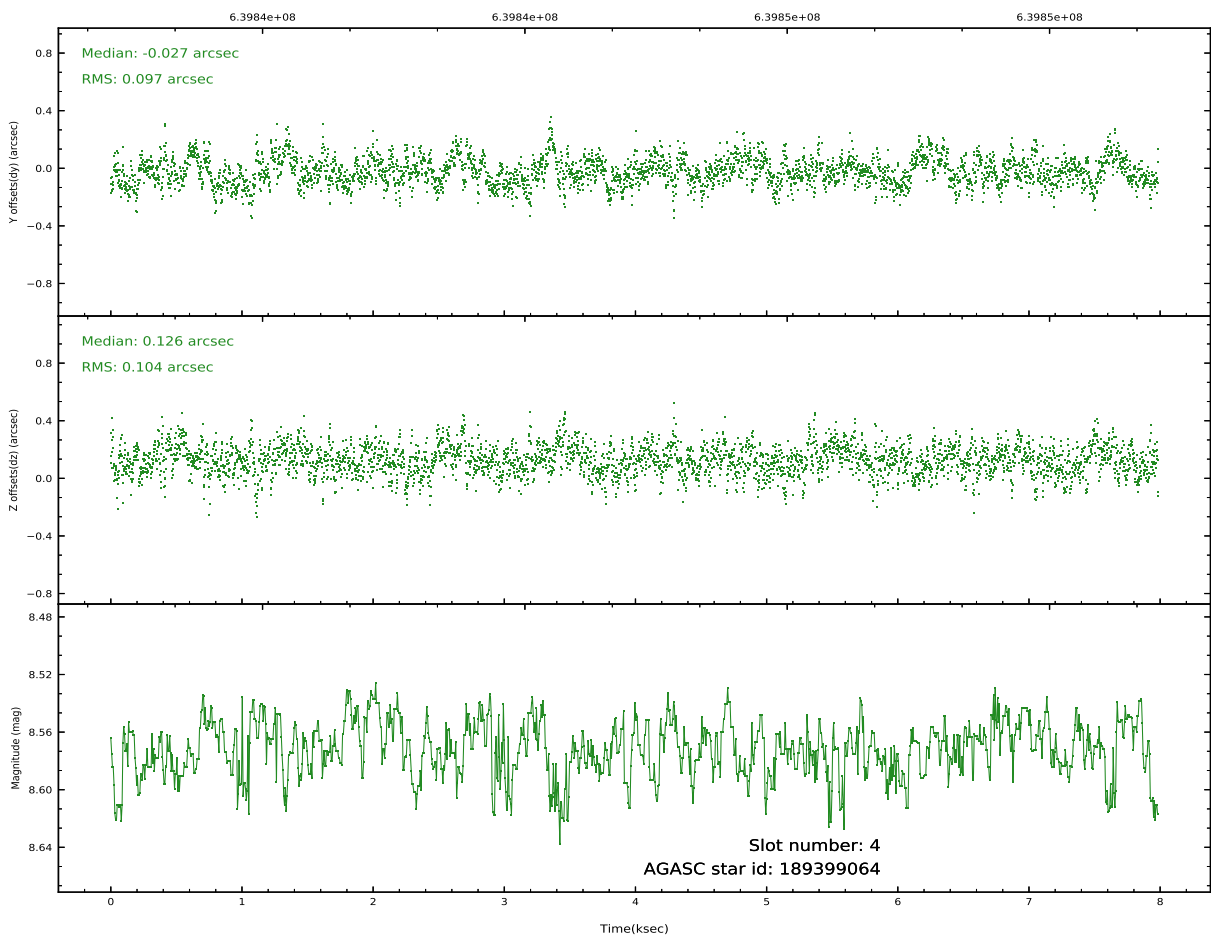
Time (s)



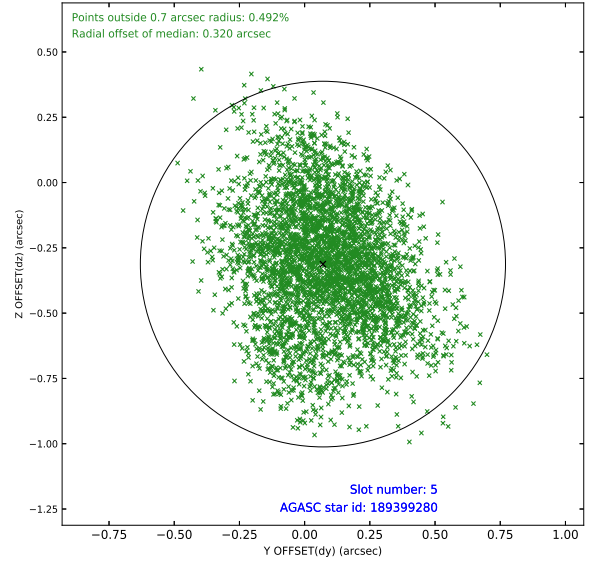
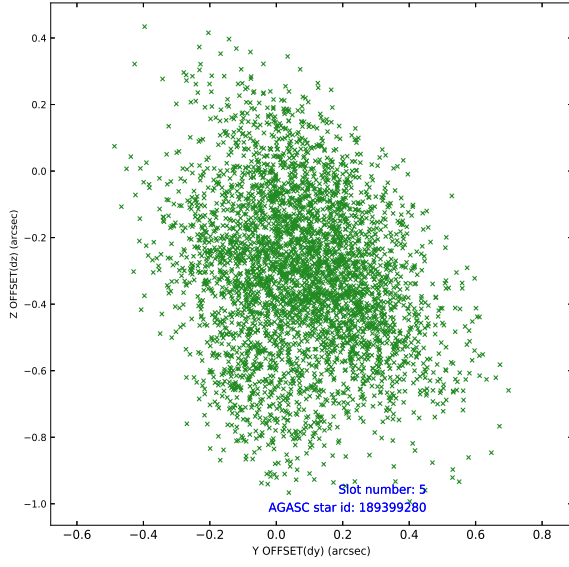
2.4.2 Slot 4



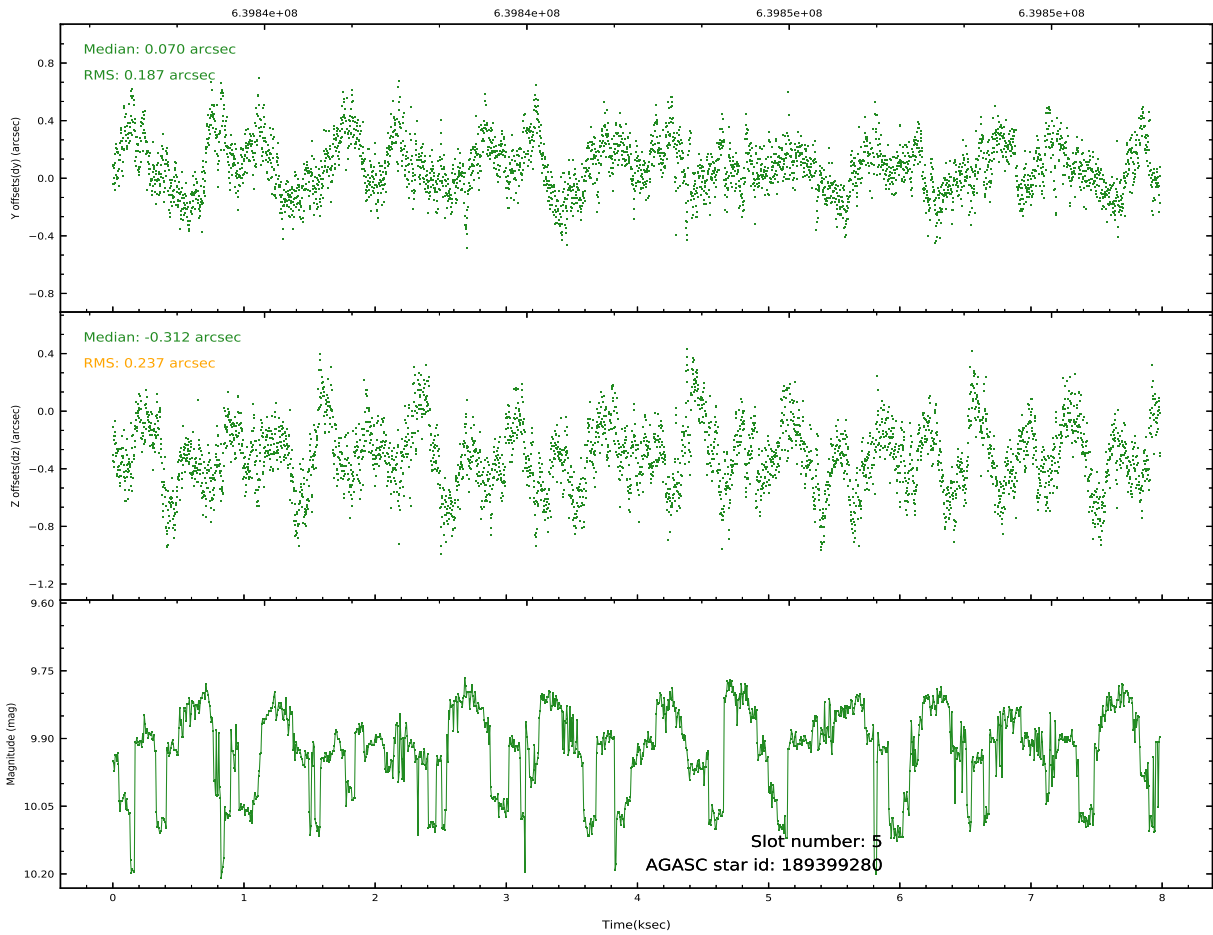
Time (s)



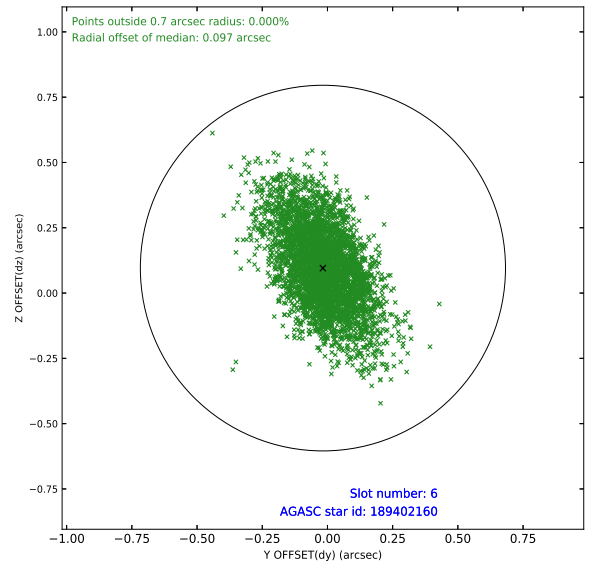
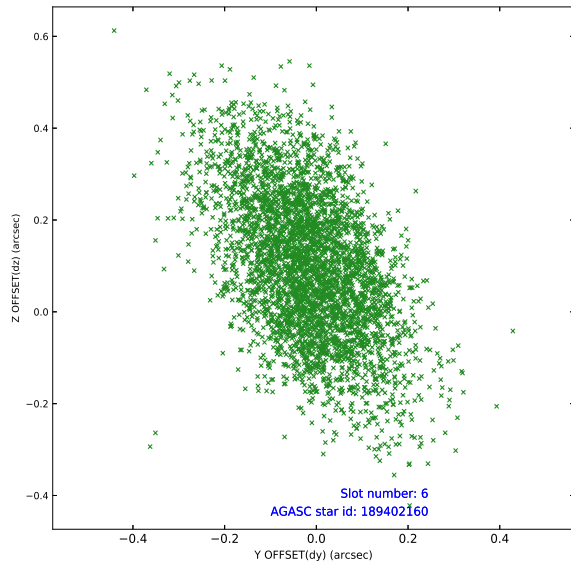
2.4.3 Slot 5



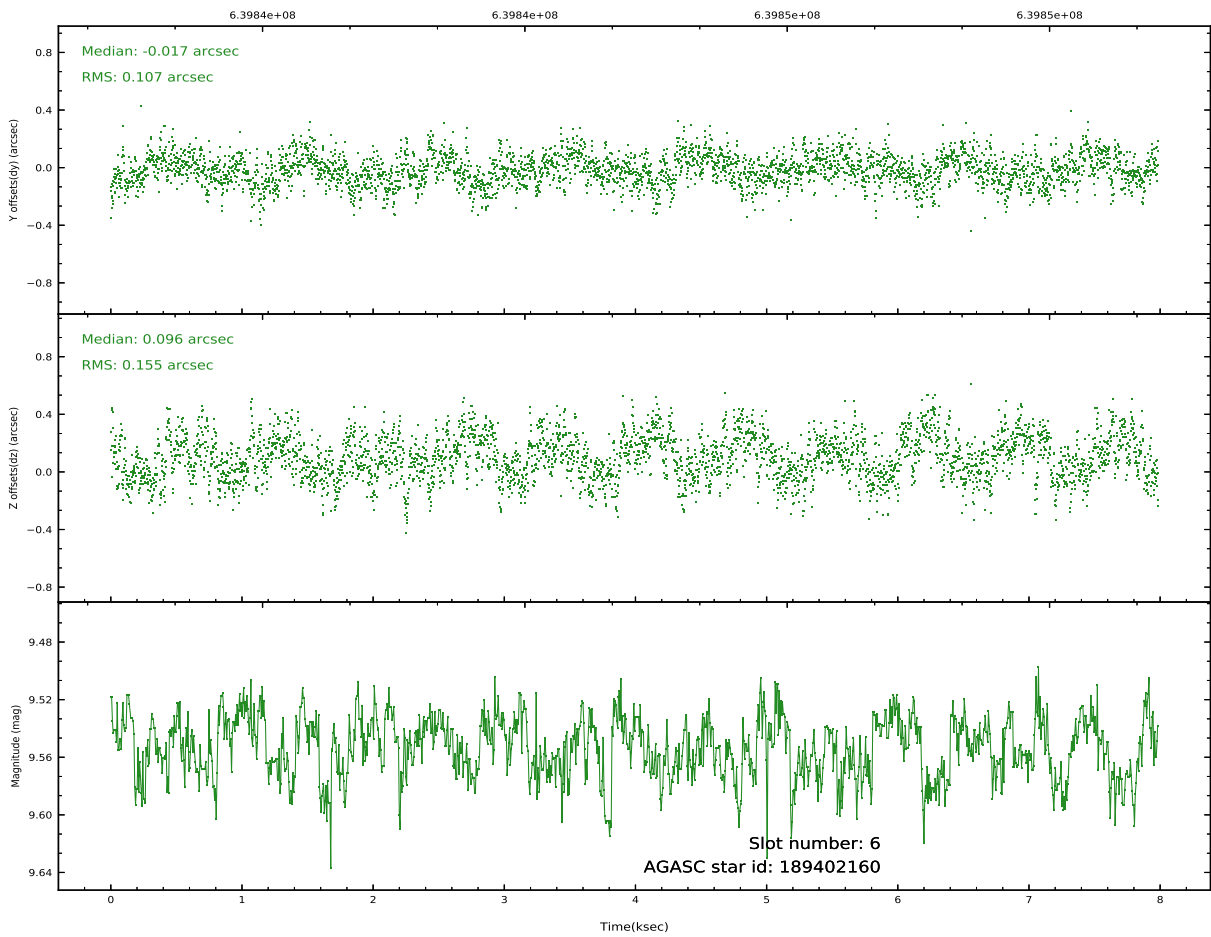
Time (s)



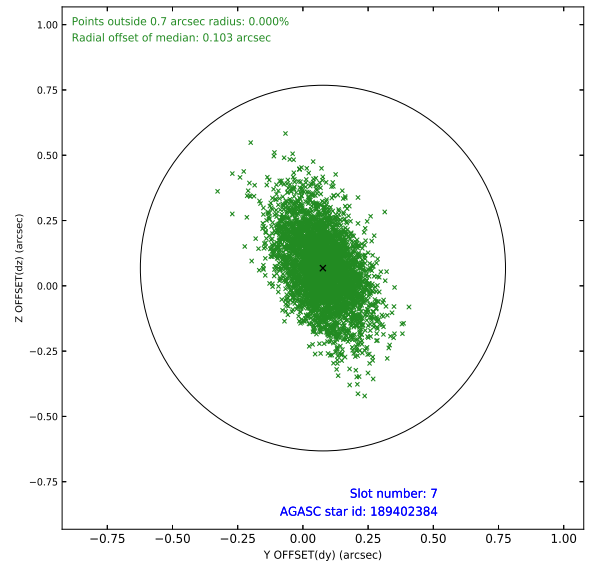
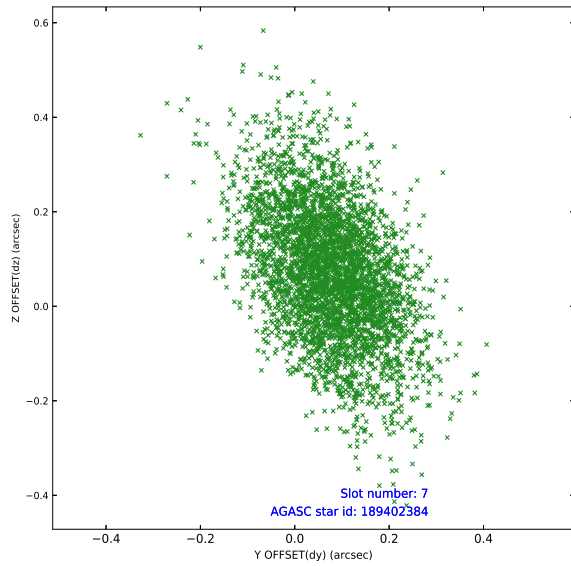
2.4.4 Slot 6



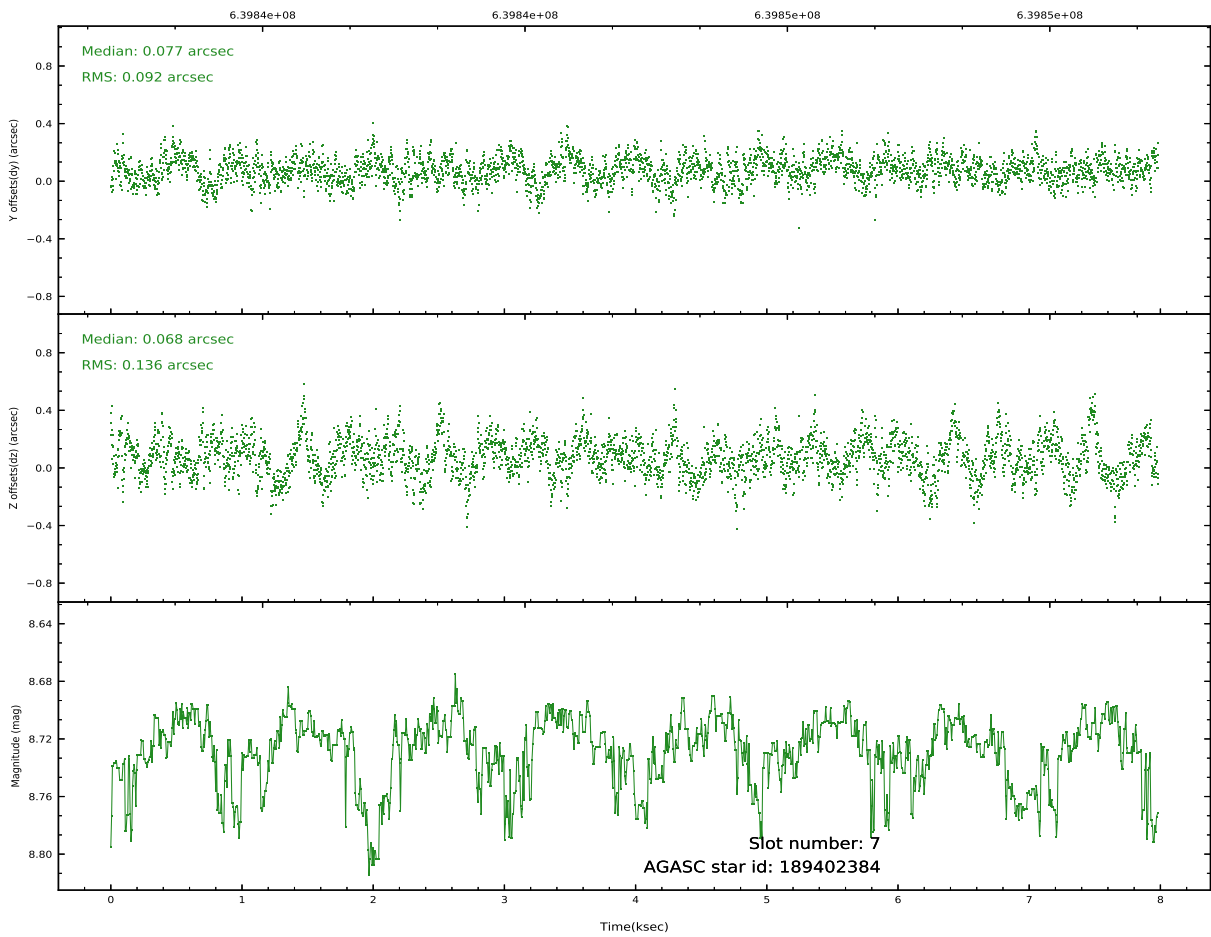
Time (s)



2.4.5 Slot 7

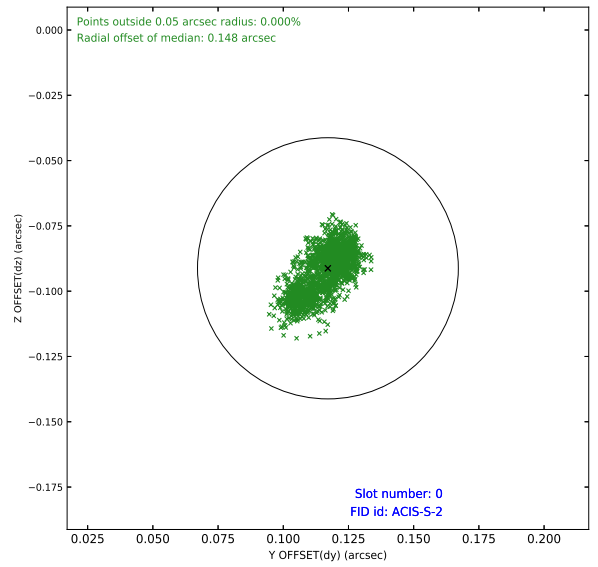
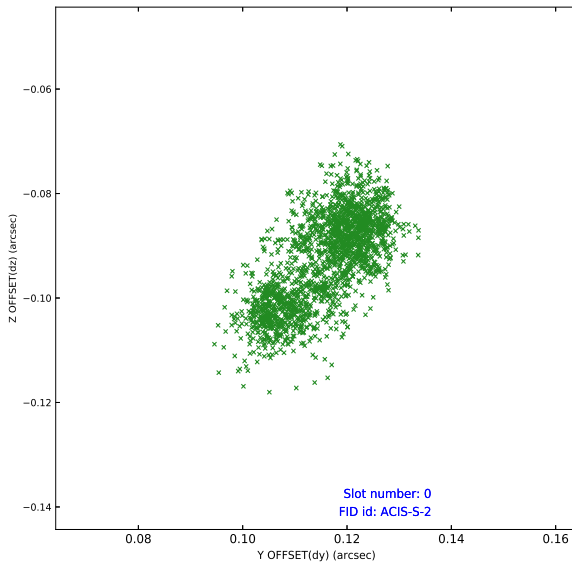


Time (s)

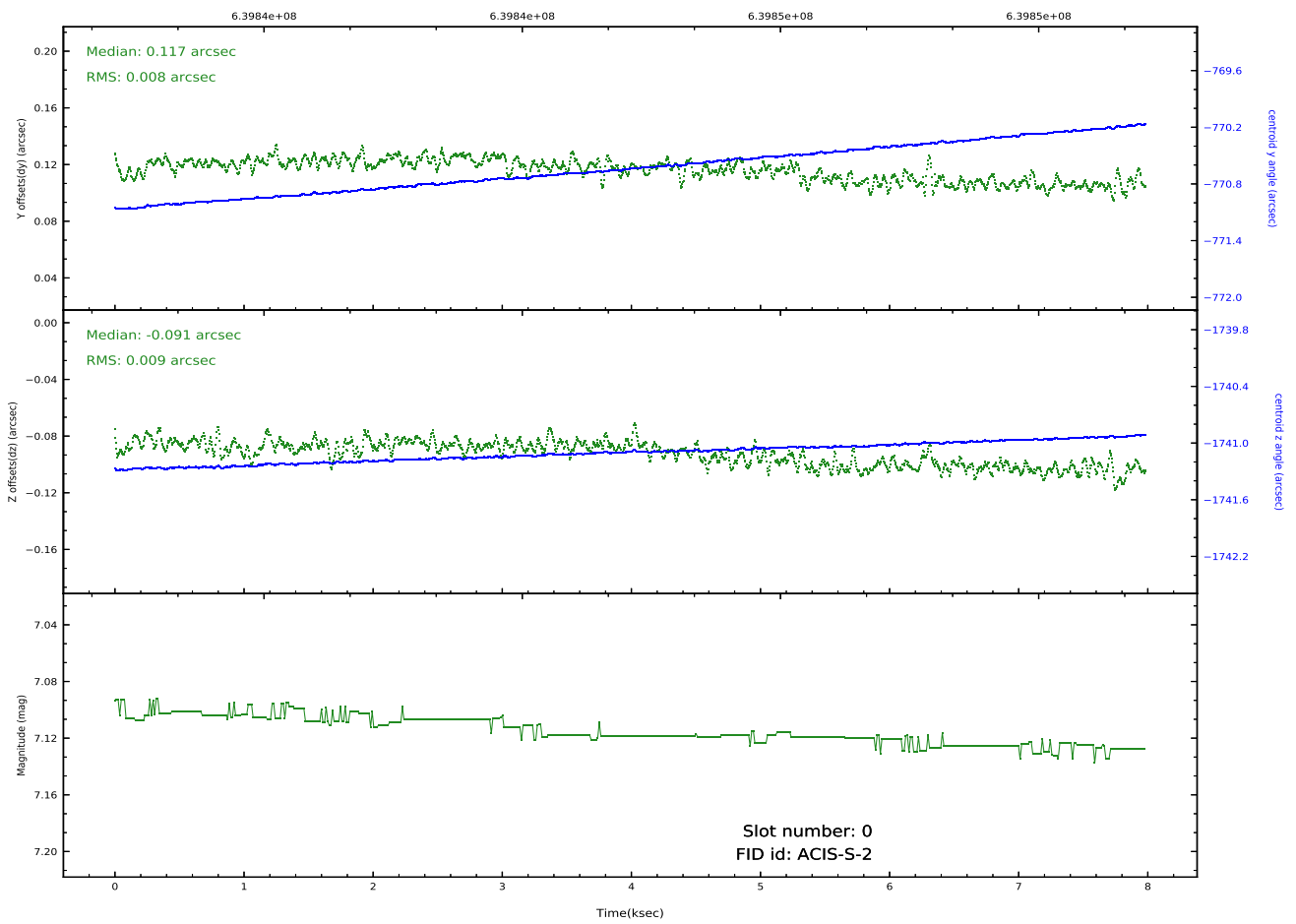


2.5 FID Slots

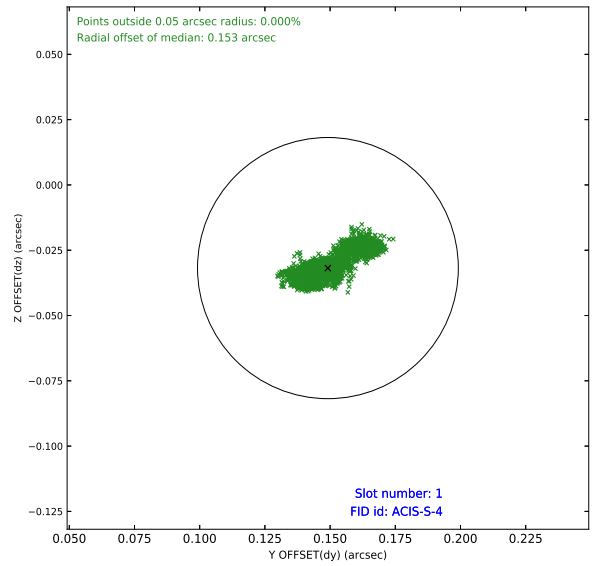
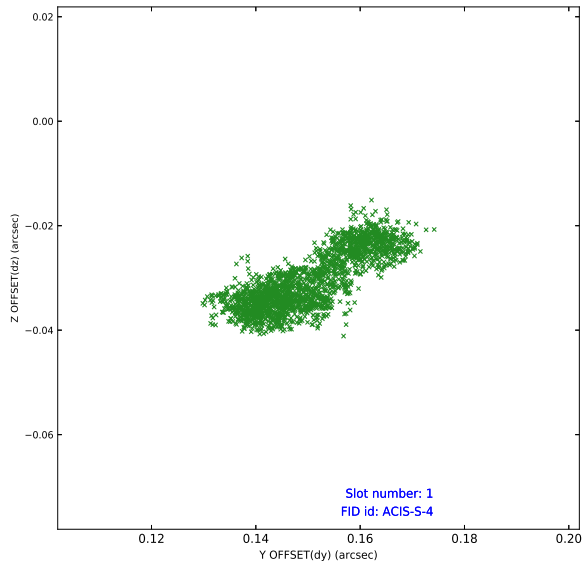
2.5.1 Slot 0



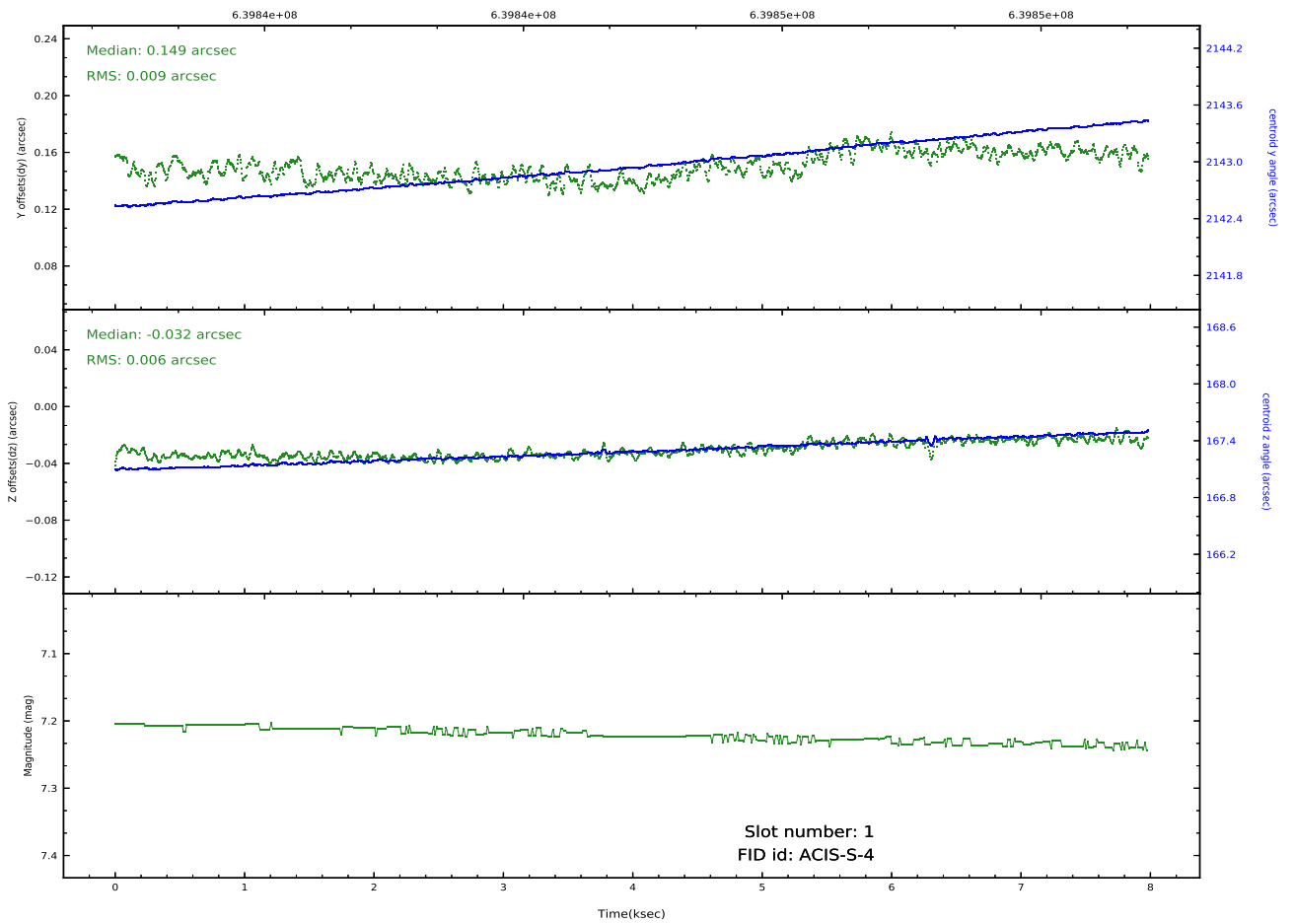
Time (s)



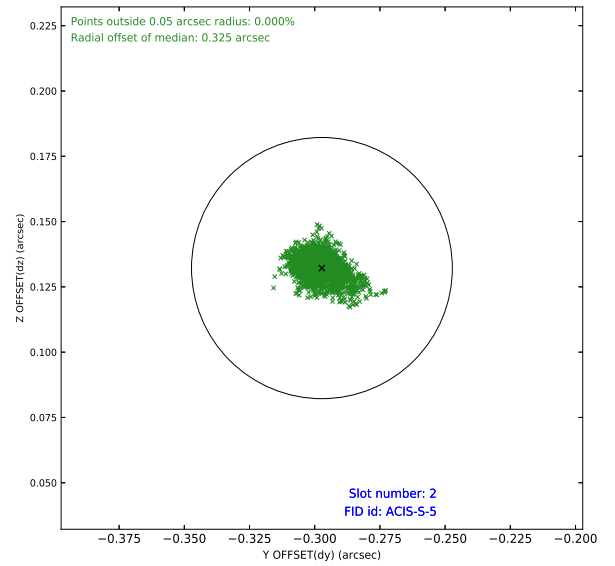
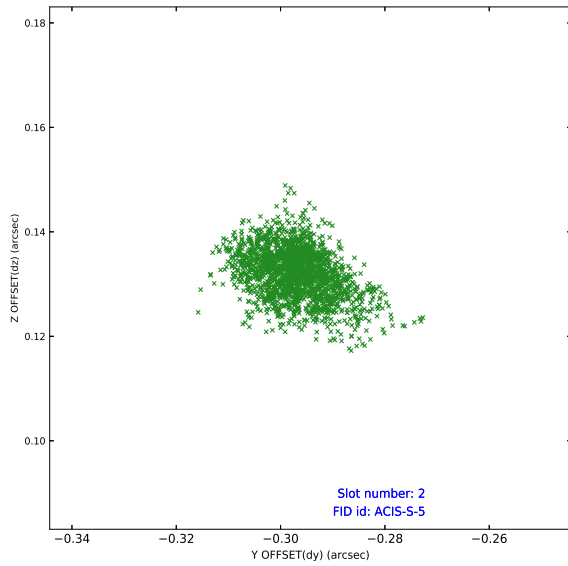
2.5.2 Slot 1



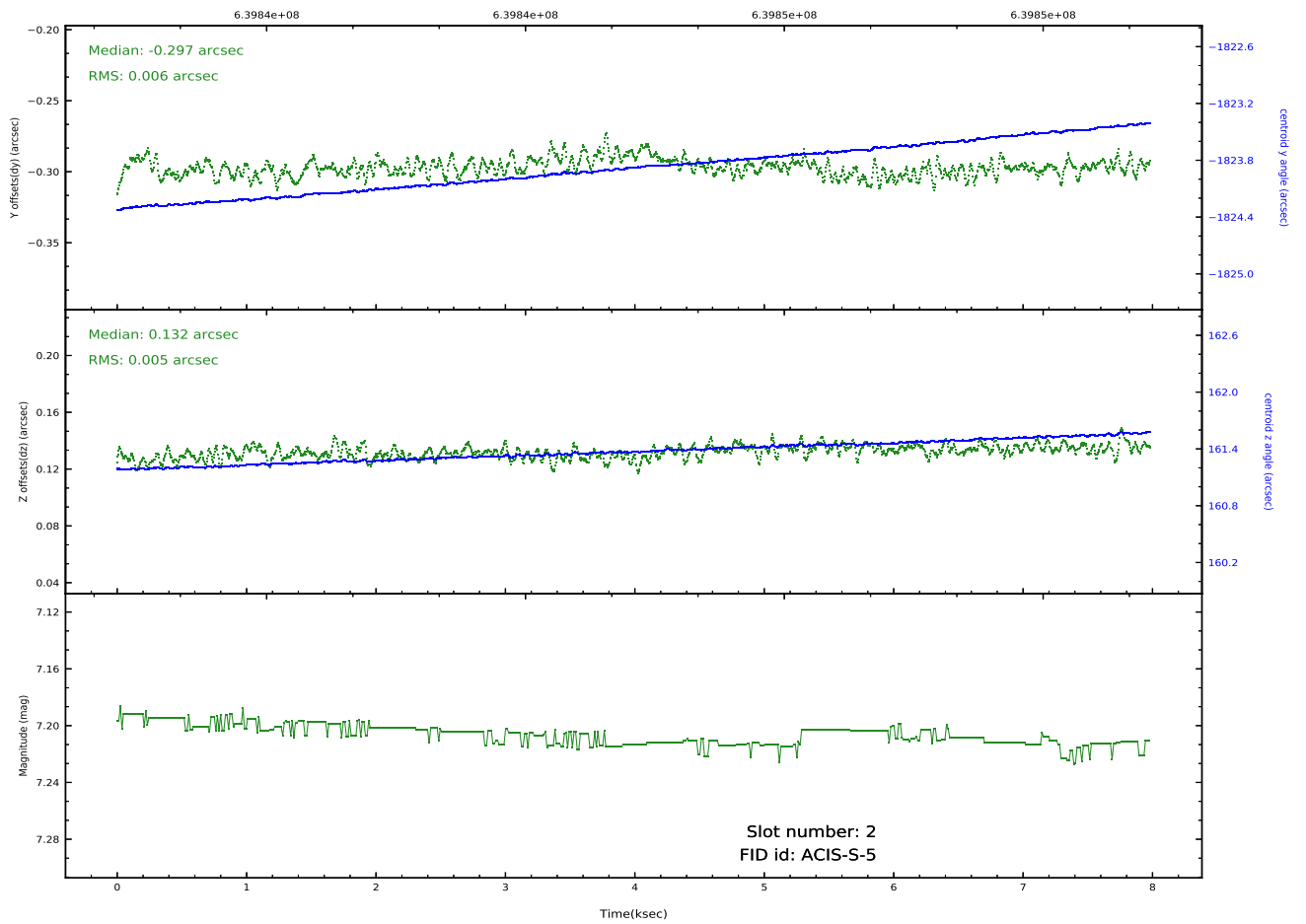
Time (s)



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7097000594139

A.2 Comments