

V&V Reference Report

L2 ASCDS Version : 10.7.1

Observation 22032 - L2 Version 1
Chandra X-Ray Center

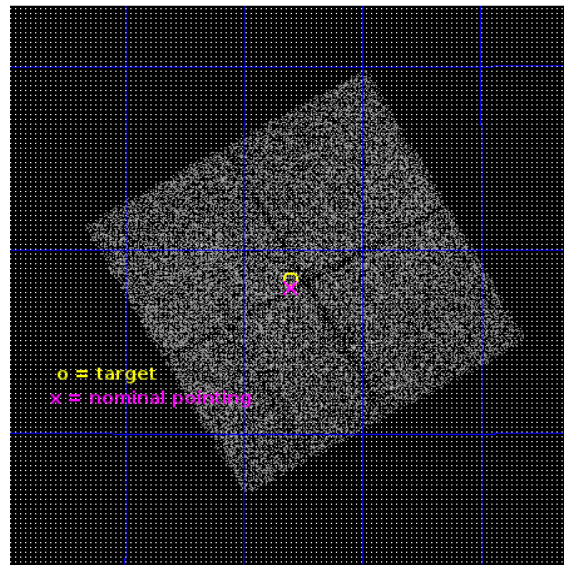
L2 Processing Date : Jan 1 2019

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1 Front

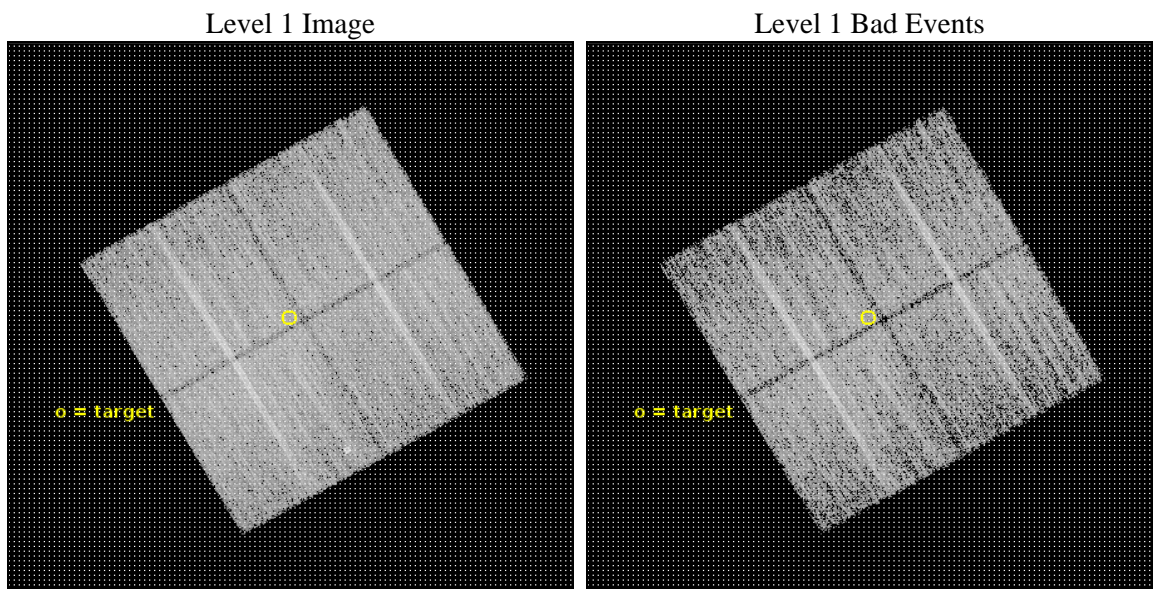
seq_num	201224	Sequence number
obs_id	22032	Observation id
title	Filling The Missing Link In Stellar Magnetic Activity Evolution	Pr
observer	Konstantin Getman	Principal investigator
object	NGC 1960	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	84.075	Observer's specified target RA [deg]
dec_targ	34.14	Observer's specified target Dec [deg]
ra_nom	84.074728826871	Nominal RA [deg]
dec_nom	34.132450278099	Nominal Dec [deg]
roll_nom	240.20886983315	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15078.400116086	Sum of GTIs [s]
livetime	14881.389718013	Livetime [s]
ontime0	15078.400116086	Sum of GTIs [s]
ontime1	15078.400116086	Sum of GTIs [s]
ontime2	15078.400116086	Sum of GTIs [s]
ontime3	15078.400116086	Sum of GTIs [s]
l2events	38967	Number of level 2 events



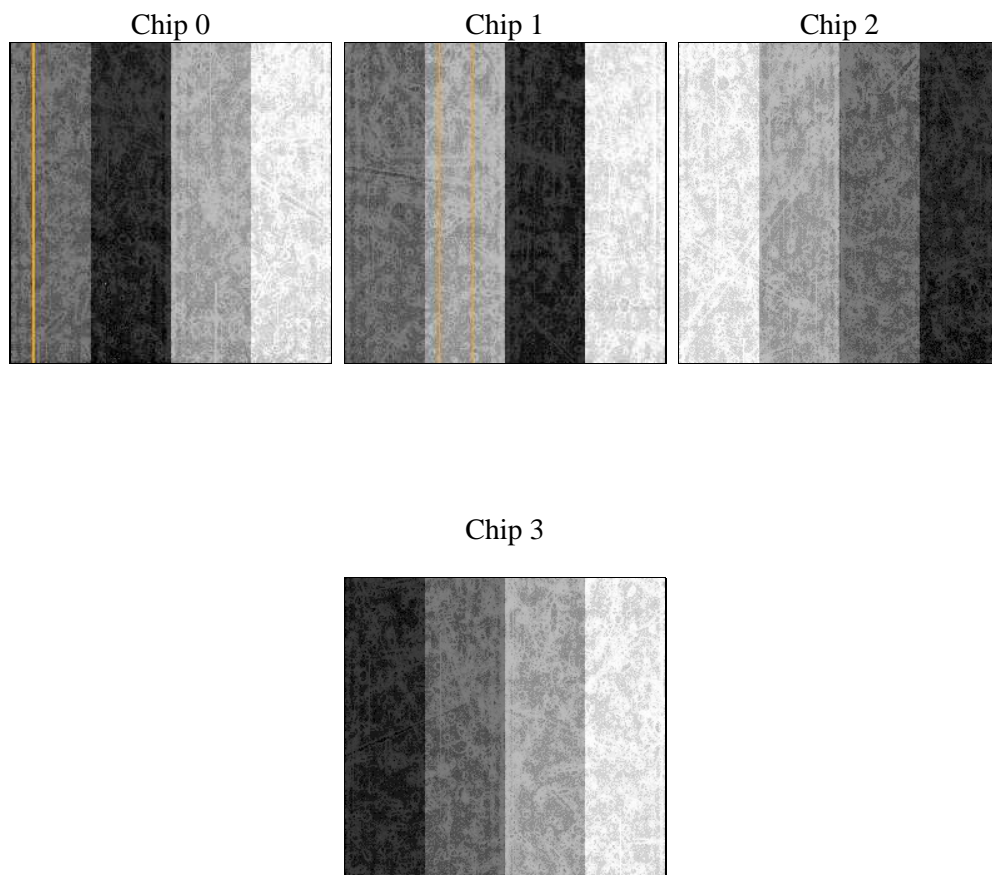
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.7.1	Processing system revision	ontime	15078.400116086	Sum of GTIs [s]
caldbver	4.8.2	 	ontime0	15078.400116086	Sum of GTIs [s]
date	2019-01-01T13:49:28	Date and time of file creation	ontime1	15078.400116086	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15078.400116086	Sum of GTIs [s]
			ontime3	15078.400116086	Sum of GTIs [s]
			l1events	415911	Number of level 1 events

2.1.4 Events

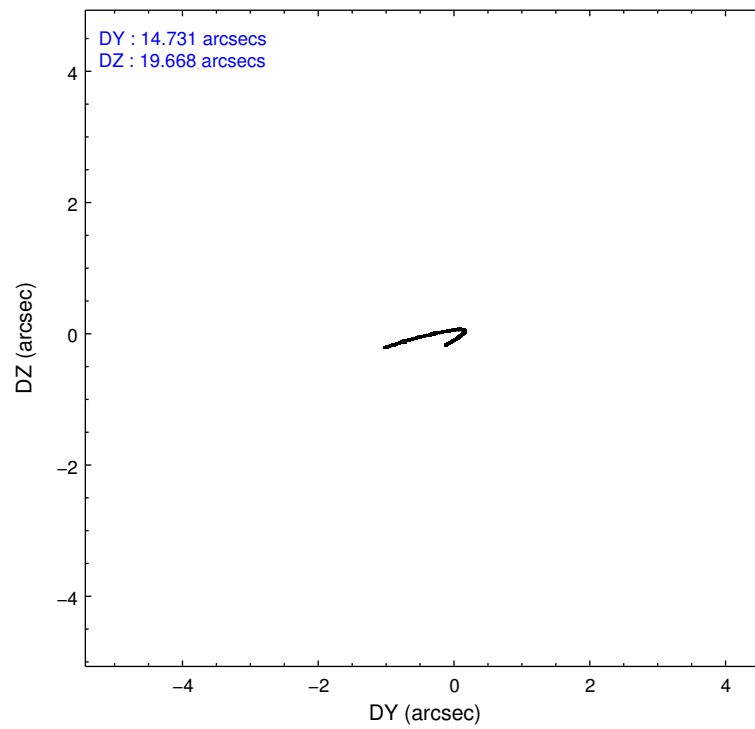
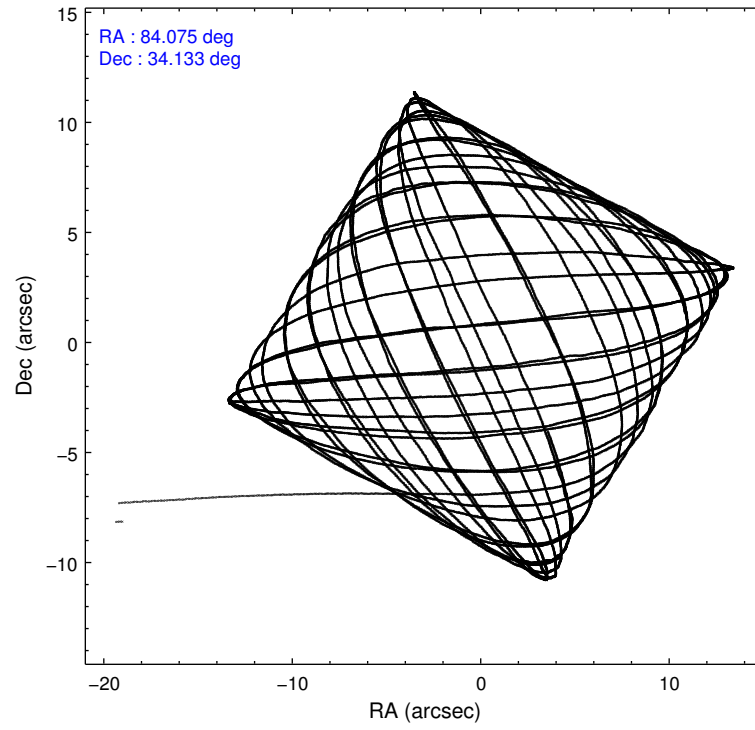
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	99180	99777	111257	105697
rejected events	87239	87675	98862	94403
rejected %	87%	87%	88%	89%

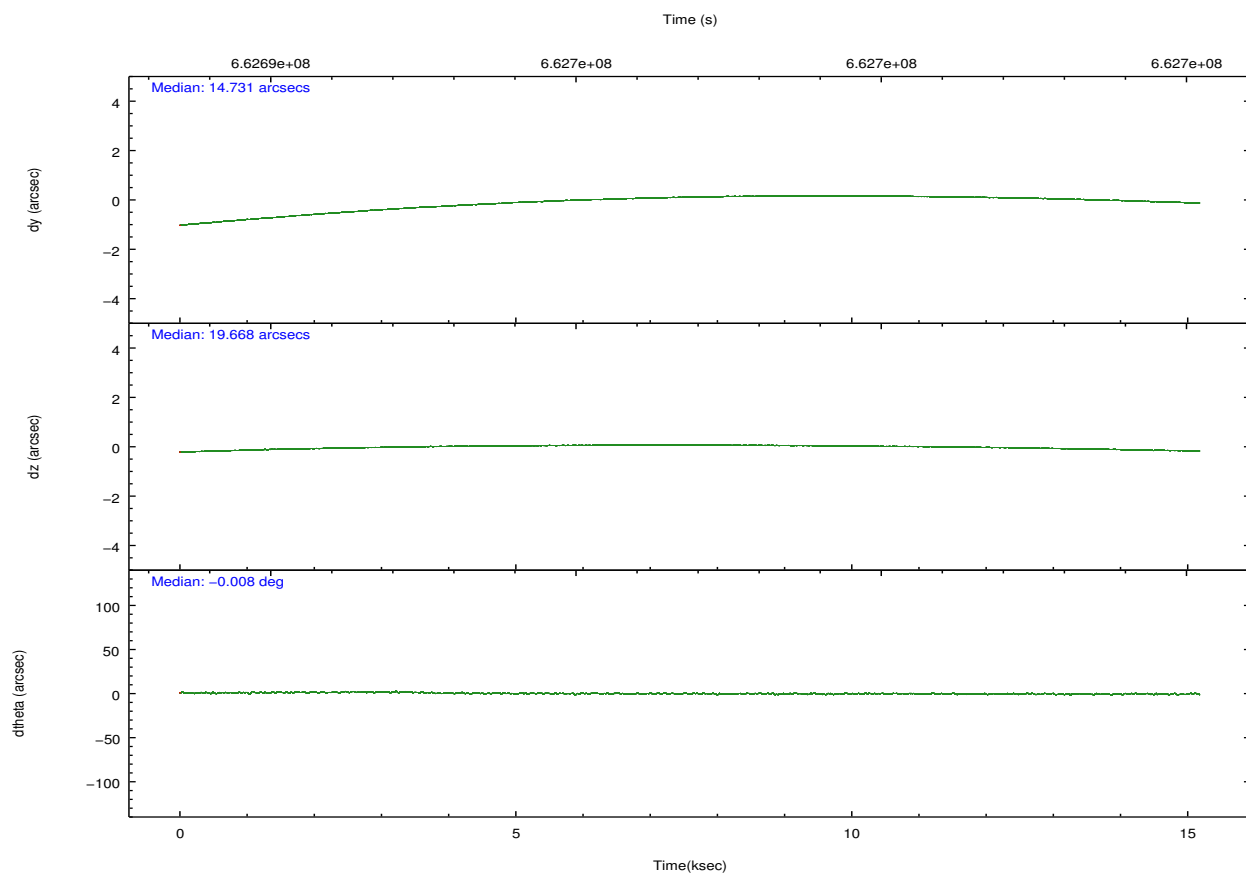
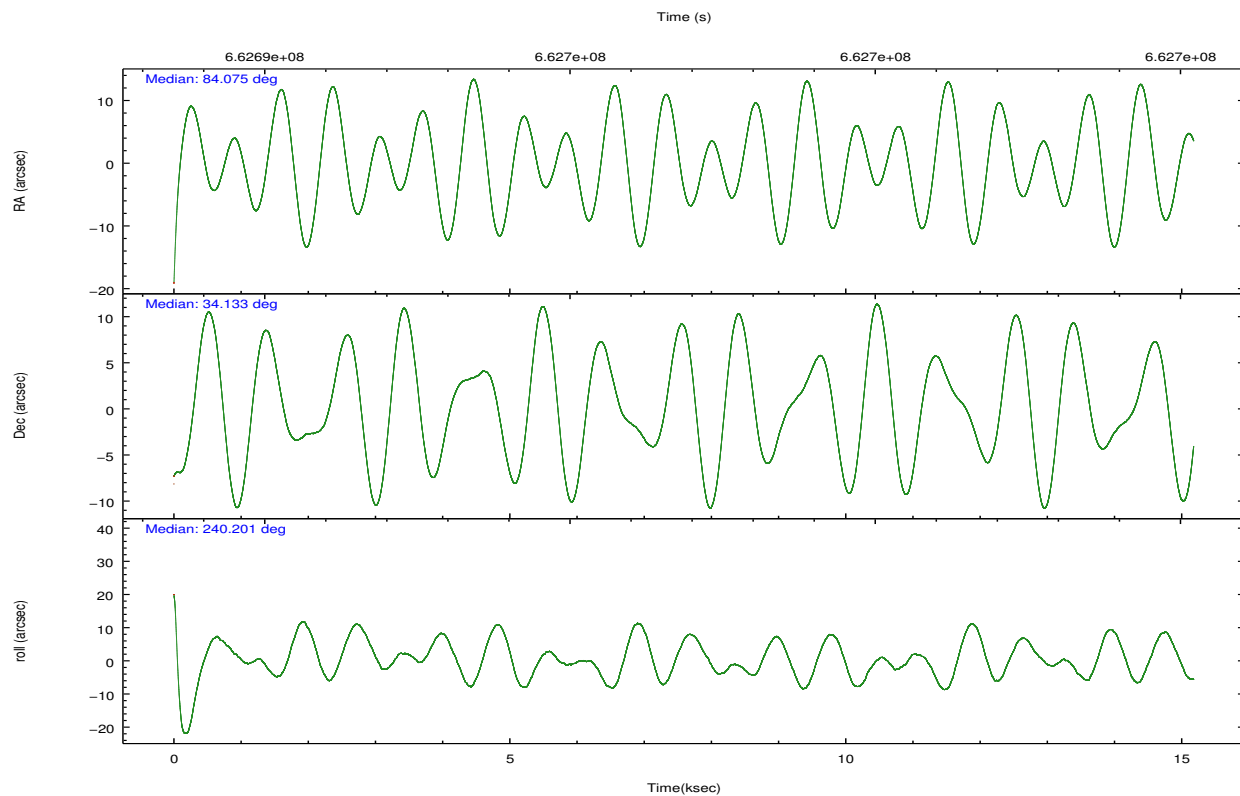
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4308	4087	5210	4434
	4%	4%	4%	4%
grade 1 events	59	59	85	64
	0%	0%	0%	0%
grade 2 events	2970	2938	2839	2446
	2%	2%	2%	2%
grade 3 events	1179	1237	1151	1154
	1%	1%	1%	1%
grade 4 events	1112	1157	1111	1103
	1%	1%	0%	1%
grade 5 events	3783	3807	3515	4287
	3%	3%	3%	4%
grade 6 events	2376	2688	2087	2162
	2%	2%	1%	2%
grade 7 events	83393	83804	95259	90047
	84%	83%	85%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	84.074465	84.07472882687112	Subarray requested	NONE	NONE
[deg] Pointing Dec	34.160088	34.13245027809904	Alternating exposures requested	N	N
[deg] Pointing Roll	240.000303	240.208869833152	[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)	662689430.184000	662688488.37468			
Observation start date	2019-01-01T00:22:41	2019-01-01T00:08:08			
[s] Observation end time (MET)	662704430.184000	662705334.25069			
Observation end date	2019-01-01T04:32:41	2019-01-01T04:48:54			
Read mode	TIMED	TIMED			

2.3 Aspect



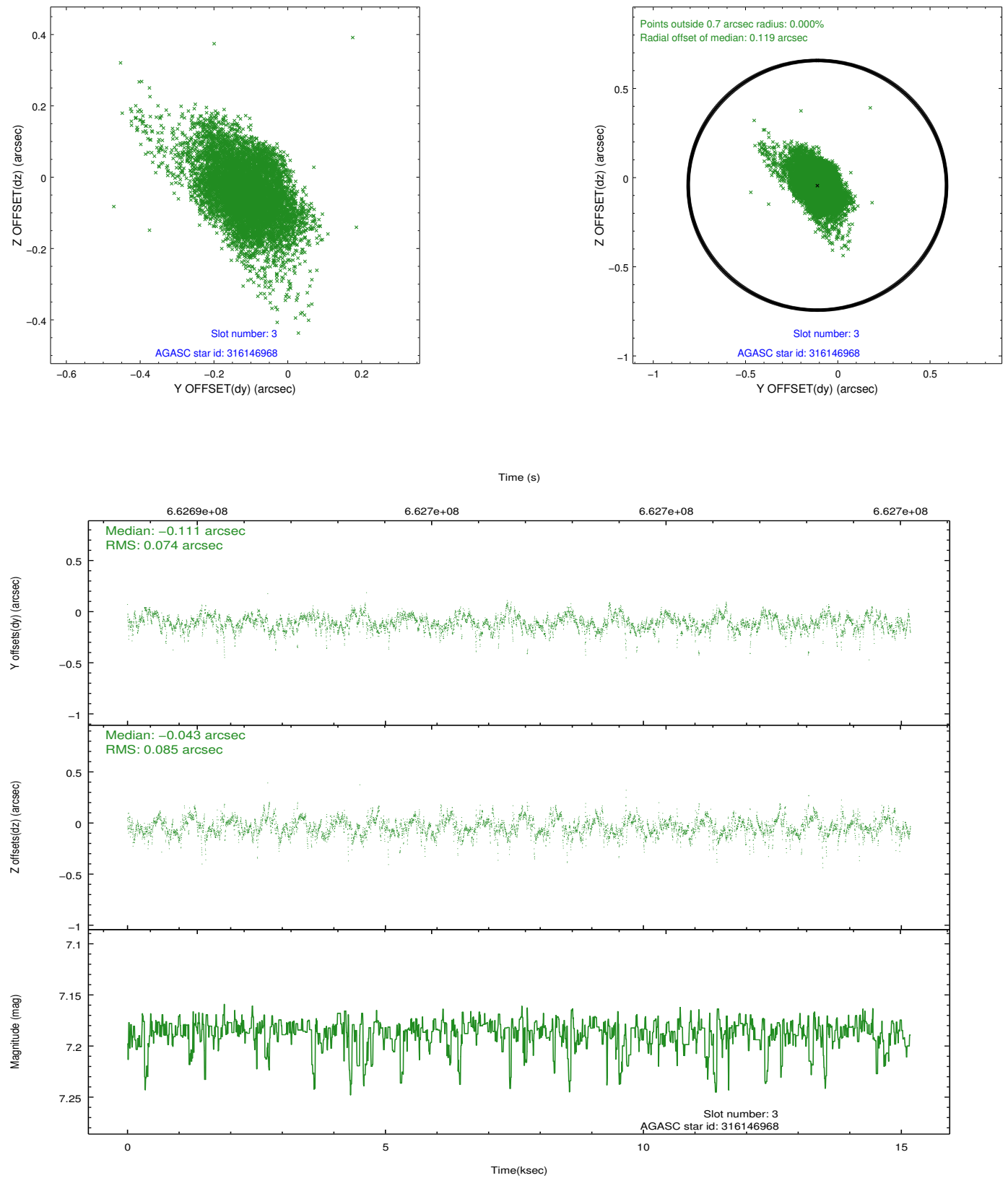


Slot Statistics

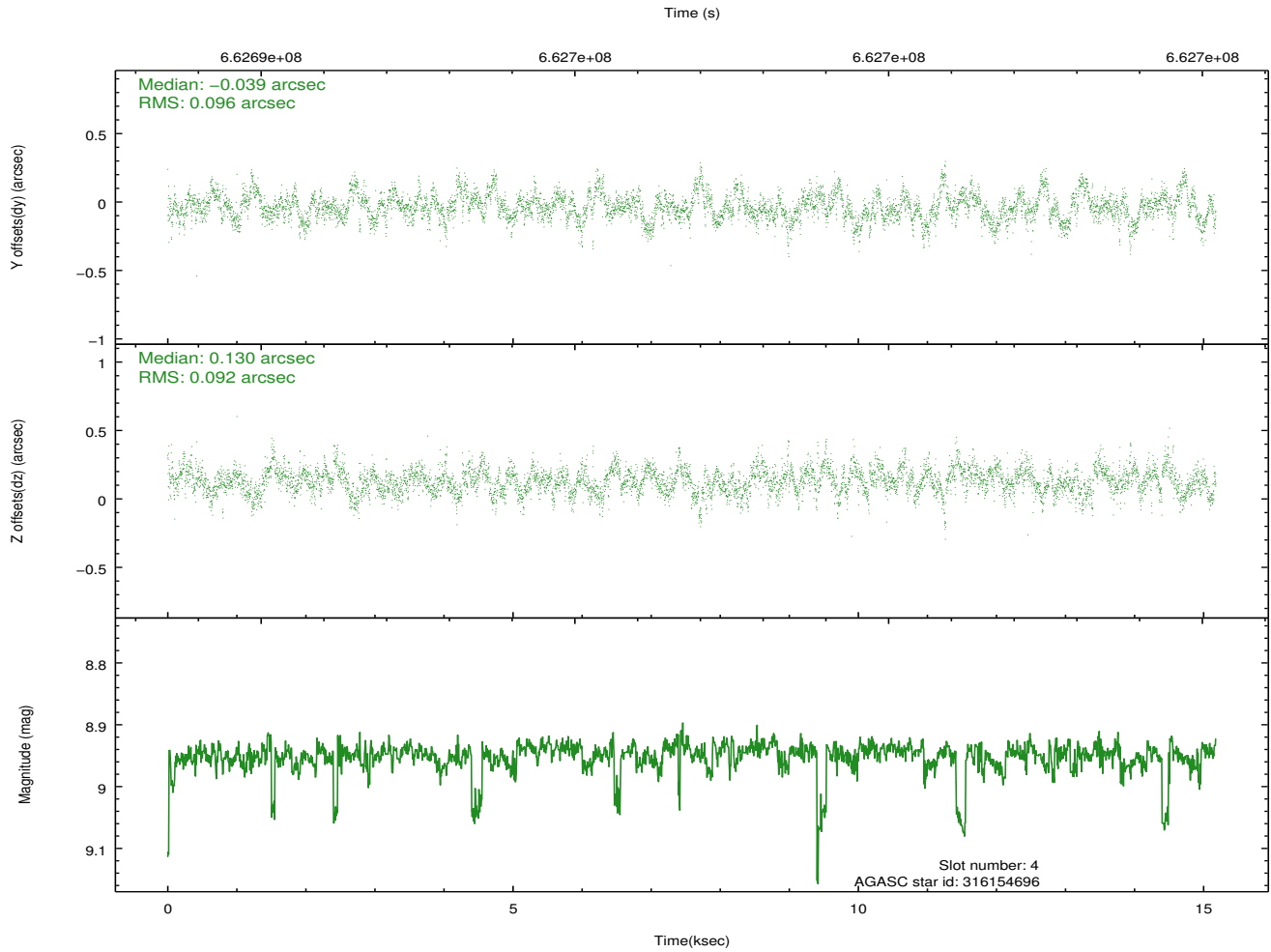
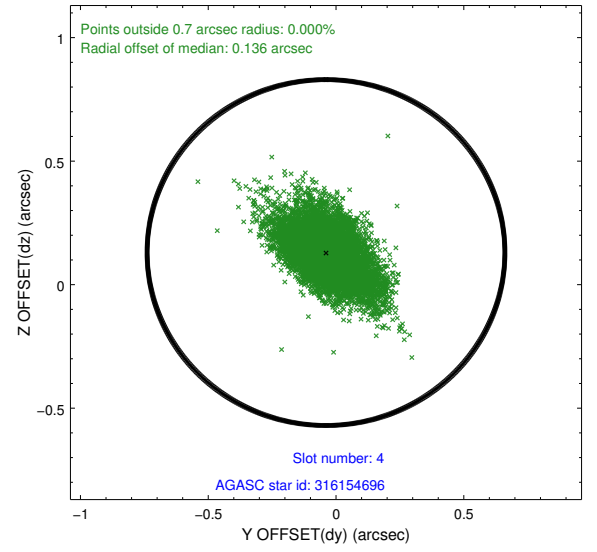
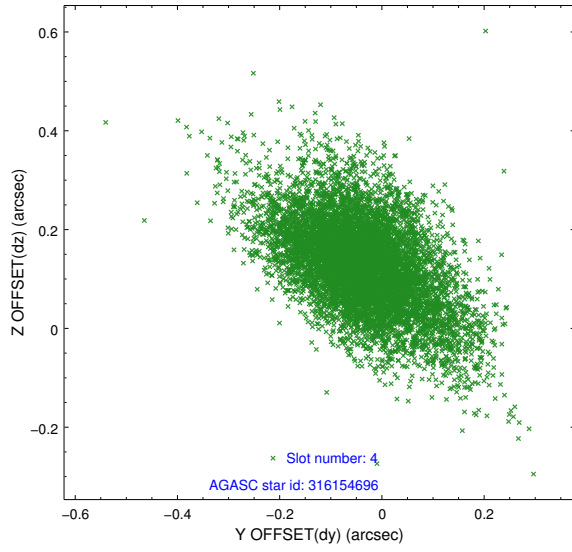
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-I-1	7.20	3702	1.000	0.070	-0.065	0.008	0.016	0.000000	0.000000	925.02	-843
1	FID		ACIS-I-5	7.19	3702	1.000	-0.500	-0.018	0.011	0.024	0.000000	0.000000	-1823.69	1053
2	FID		ACIS-I-6	7.21	3703	1.000	0.340	0.154	0.012	0.028	0.000000	0.000000	390.24	1699
3	GUIDE	used	316146968	7.19	7405	1.000	-0.111	-0.043	0.113	0.204	85.013487	34.289009	-1809.64	2180
4	GUIDE	used	316154696	8.95	7400	1.000	-0.039	0.130	0.133	0.243	85.011245	34.394890	-2134.74	1981
5	GUIDE	used	316155560	8.34	7400	1.000	-0.008	0.057	0.123	0.204	83.723134	34.282728	138.98	-1126
6	GUIDE	used	316156896	7.37	7404	1.000	-0.058	0.098	0.118	0.202	83.543505	34.217630	608.12	-1473
7	GUIDE	used	316027440	9.01	7394	1.000	0.224	-0.219	0.226	0.384	83.112095	33.895491	2252.25	-2020

2.4 Star Slots

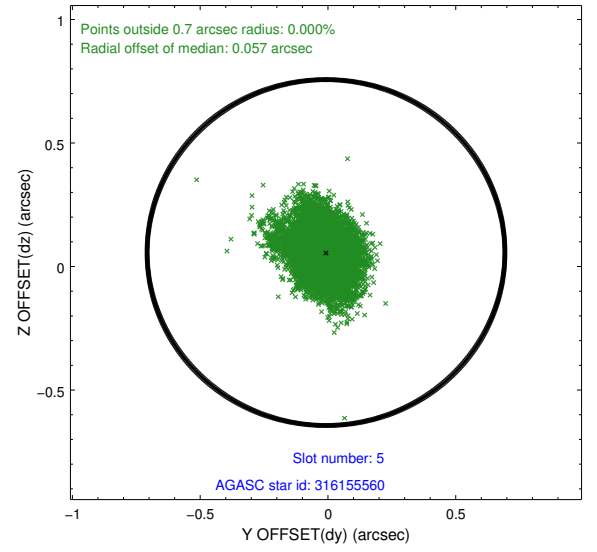
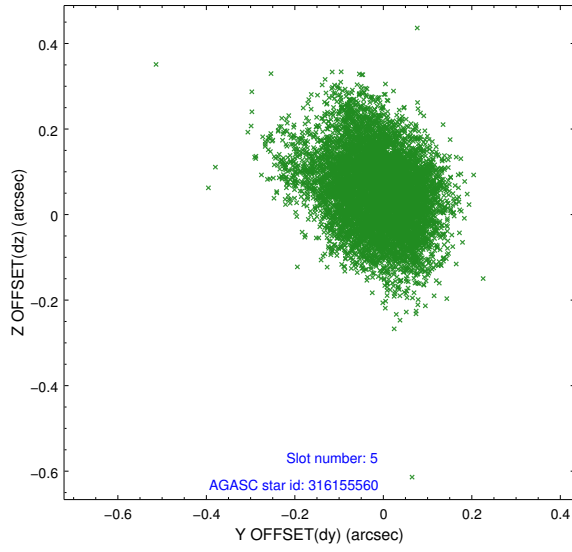
2.4.1 Slot 3



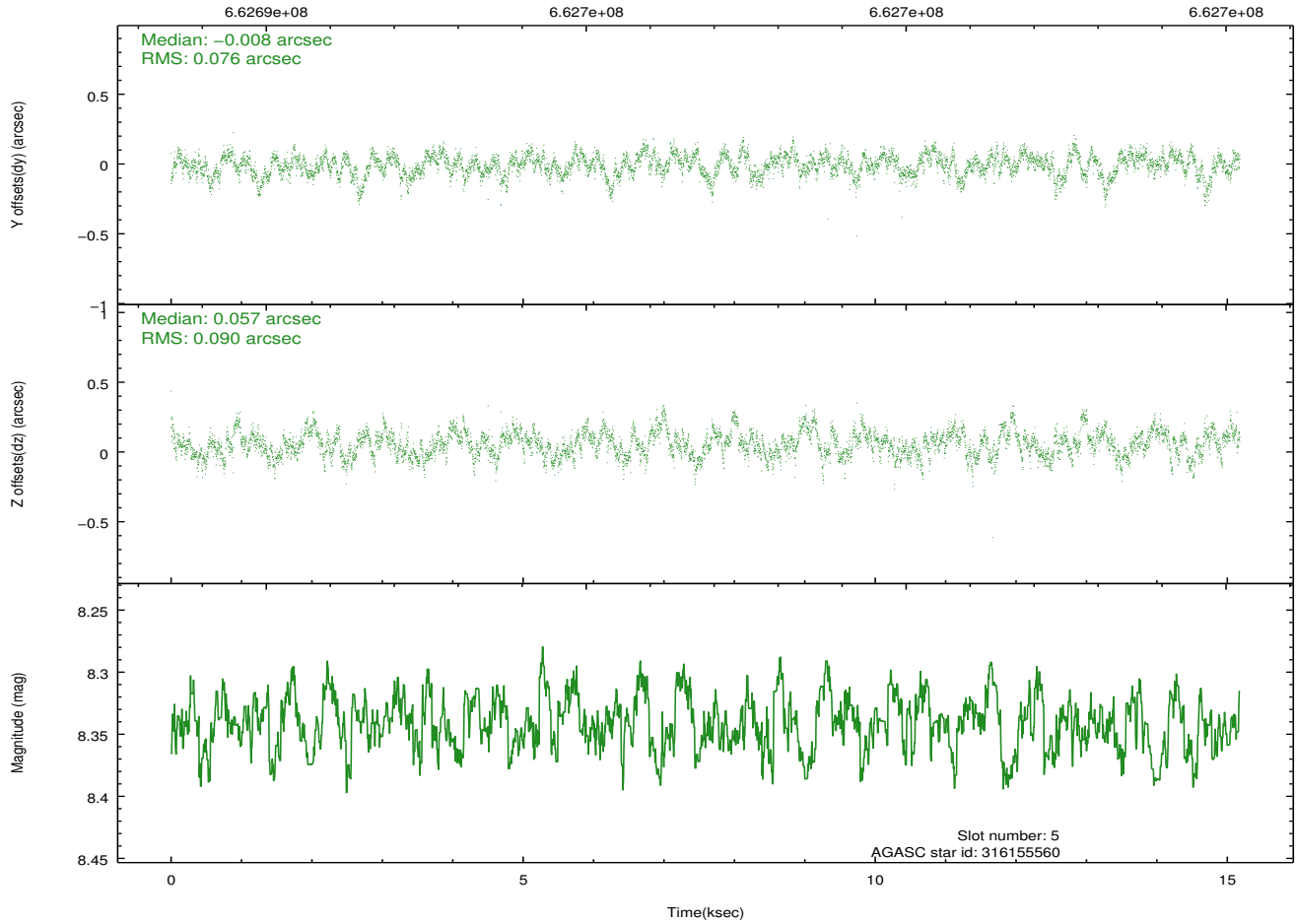
2.4.2 Slot 4



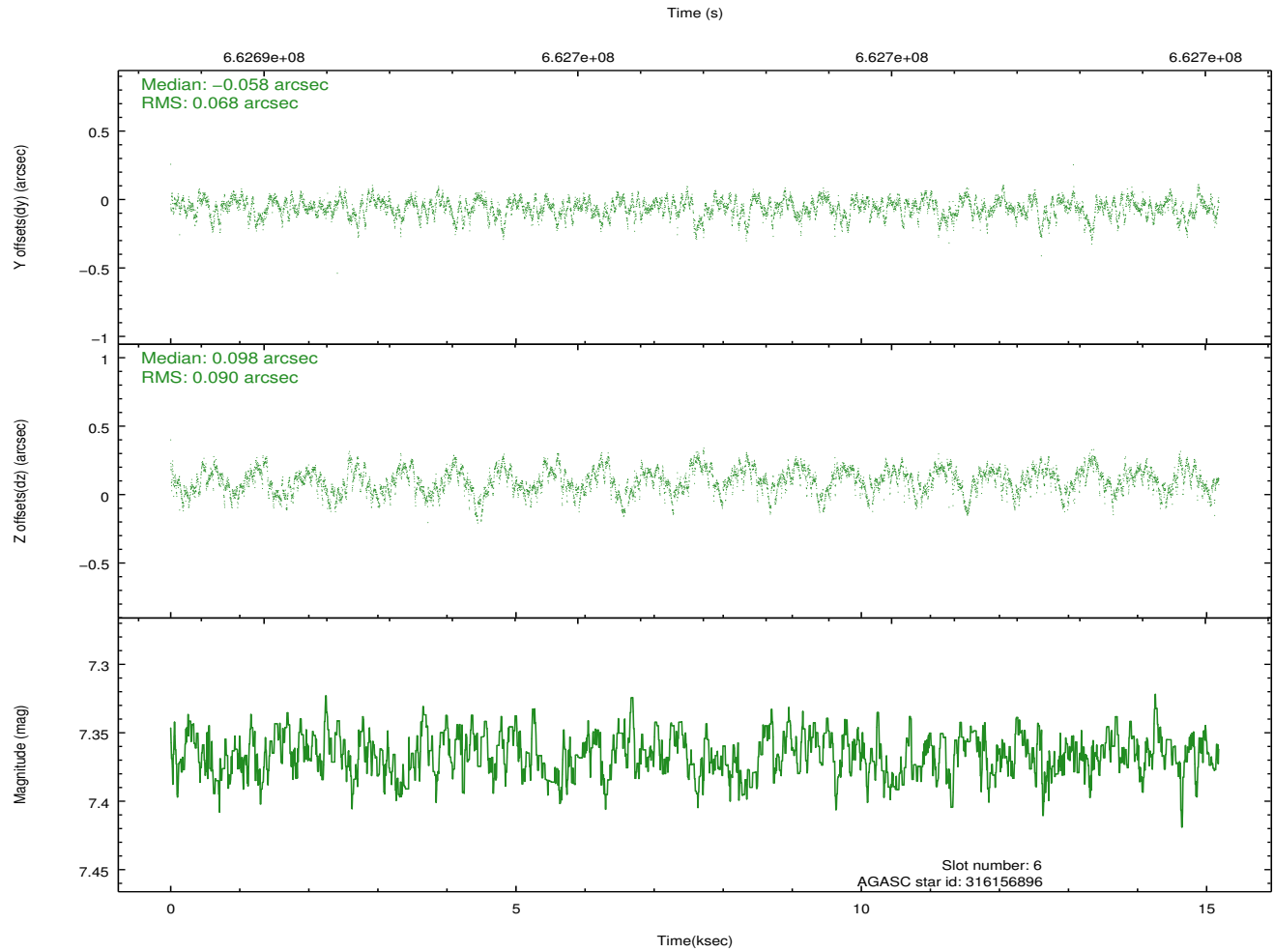
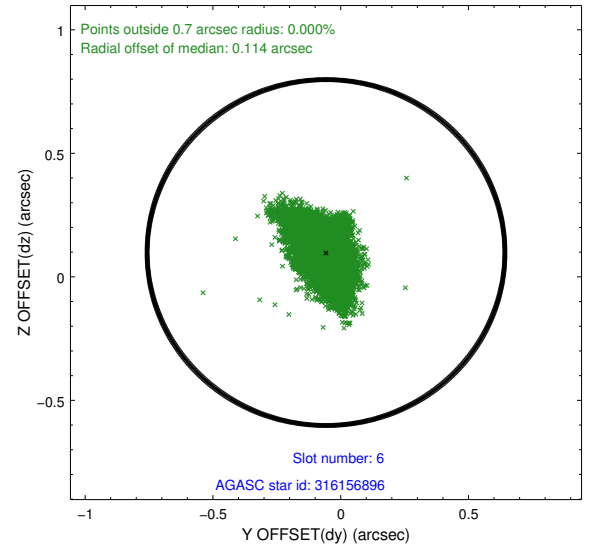
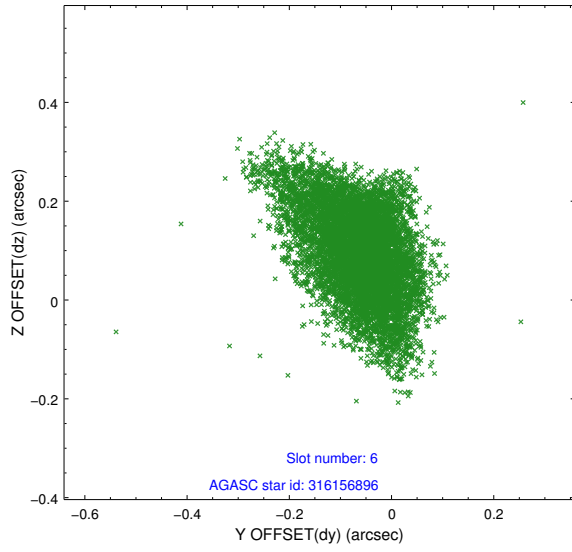
2.4.3 Slot 5



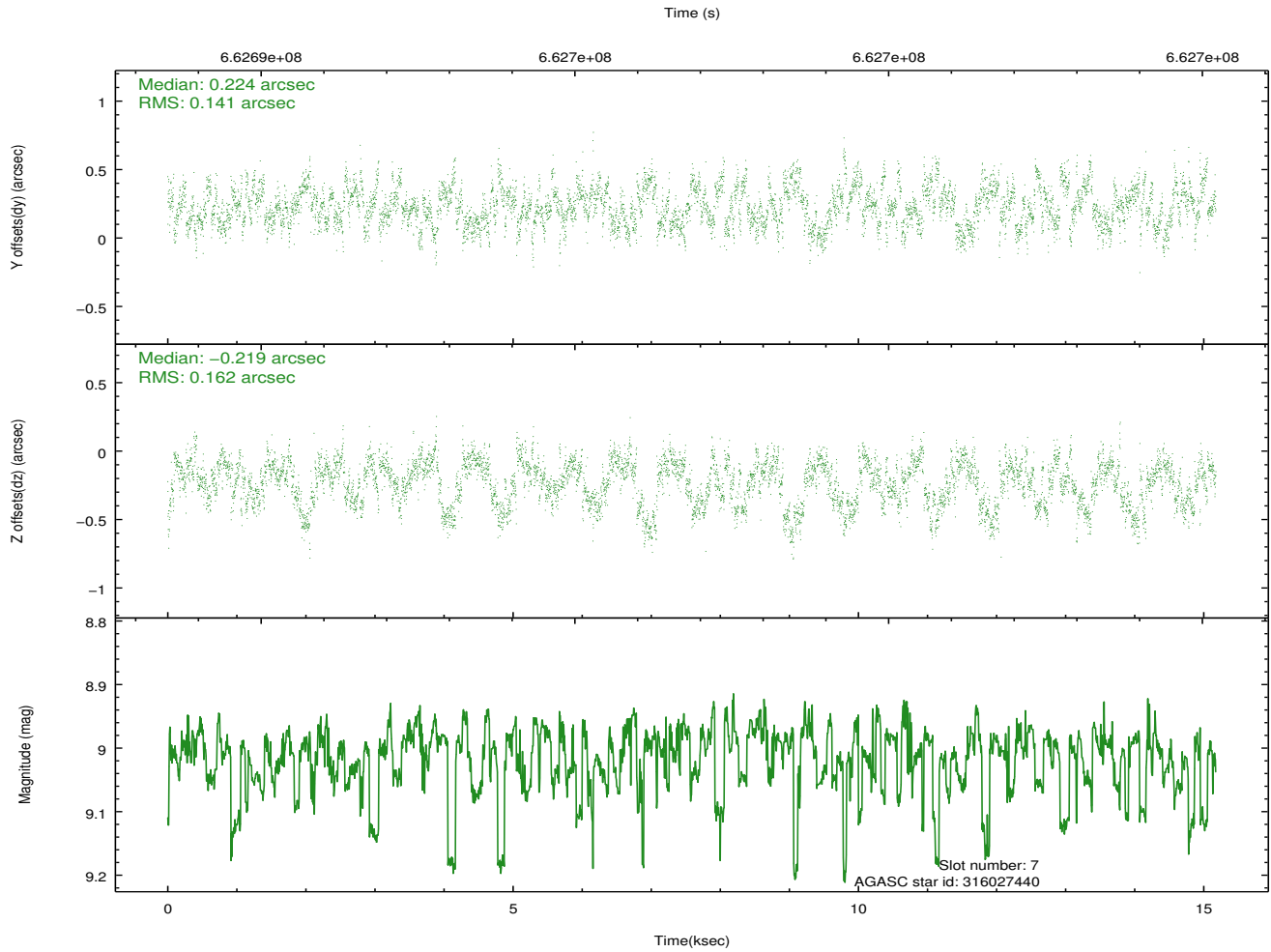
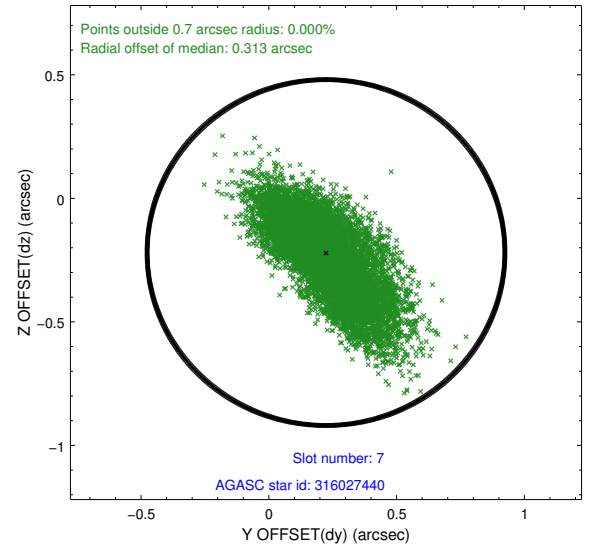
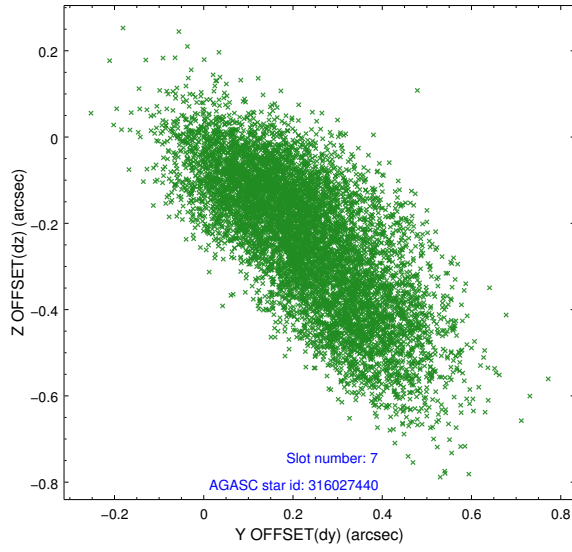
Time (s)



2.4.4 Slot 6

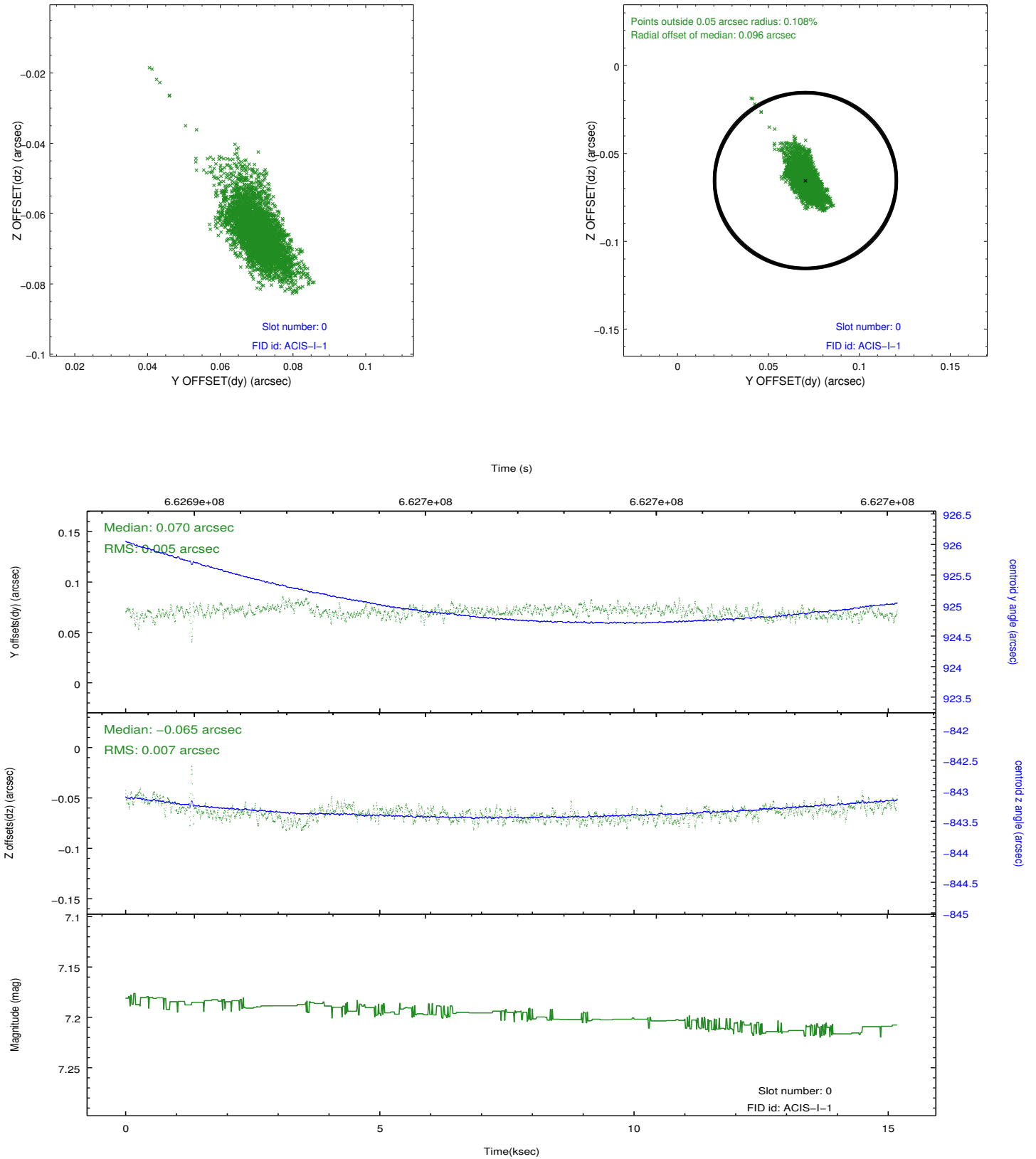


2.4.5 Slot 7

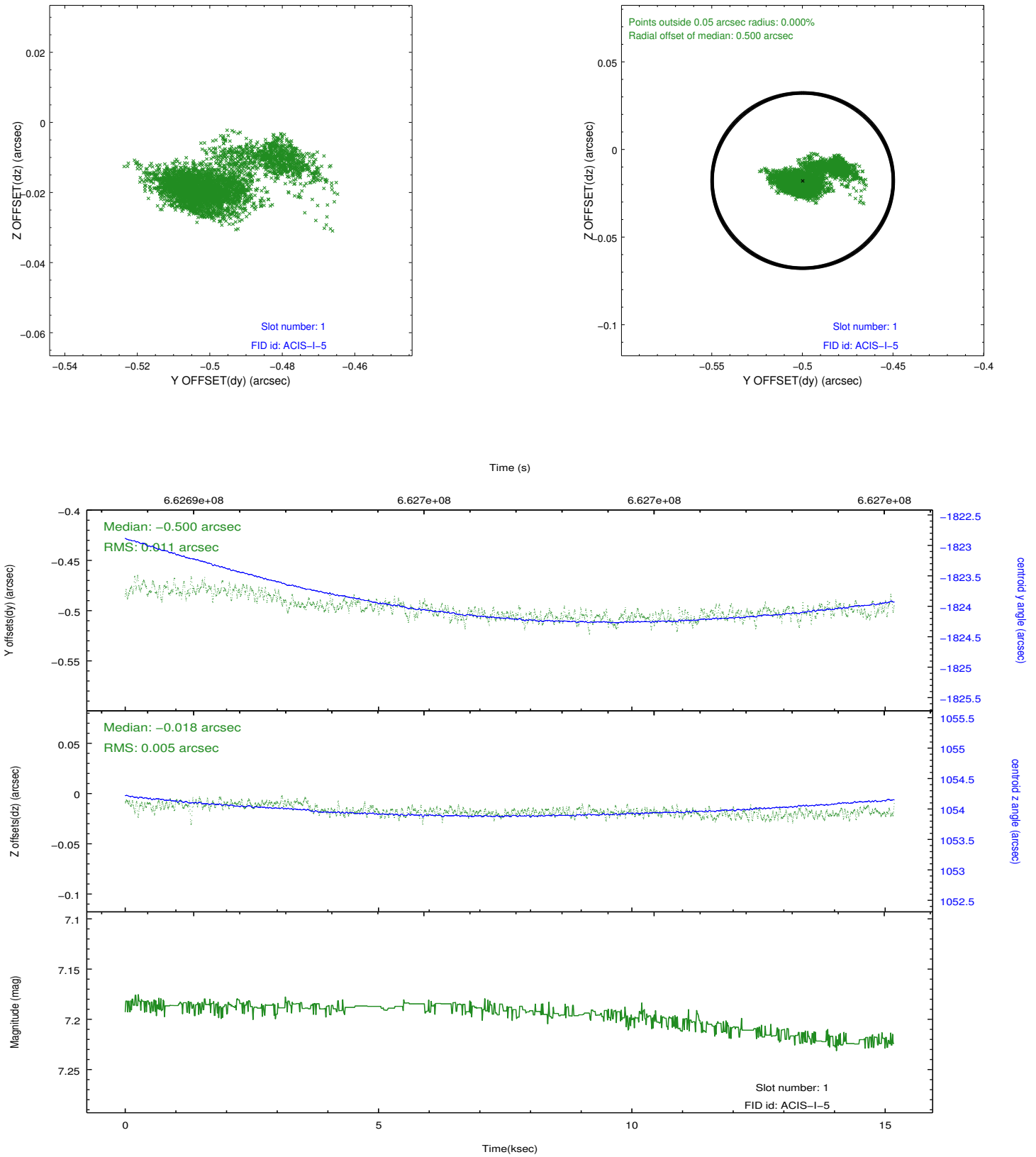


2.5 FID Slots

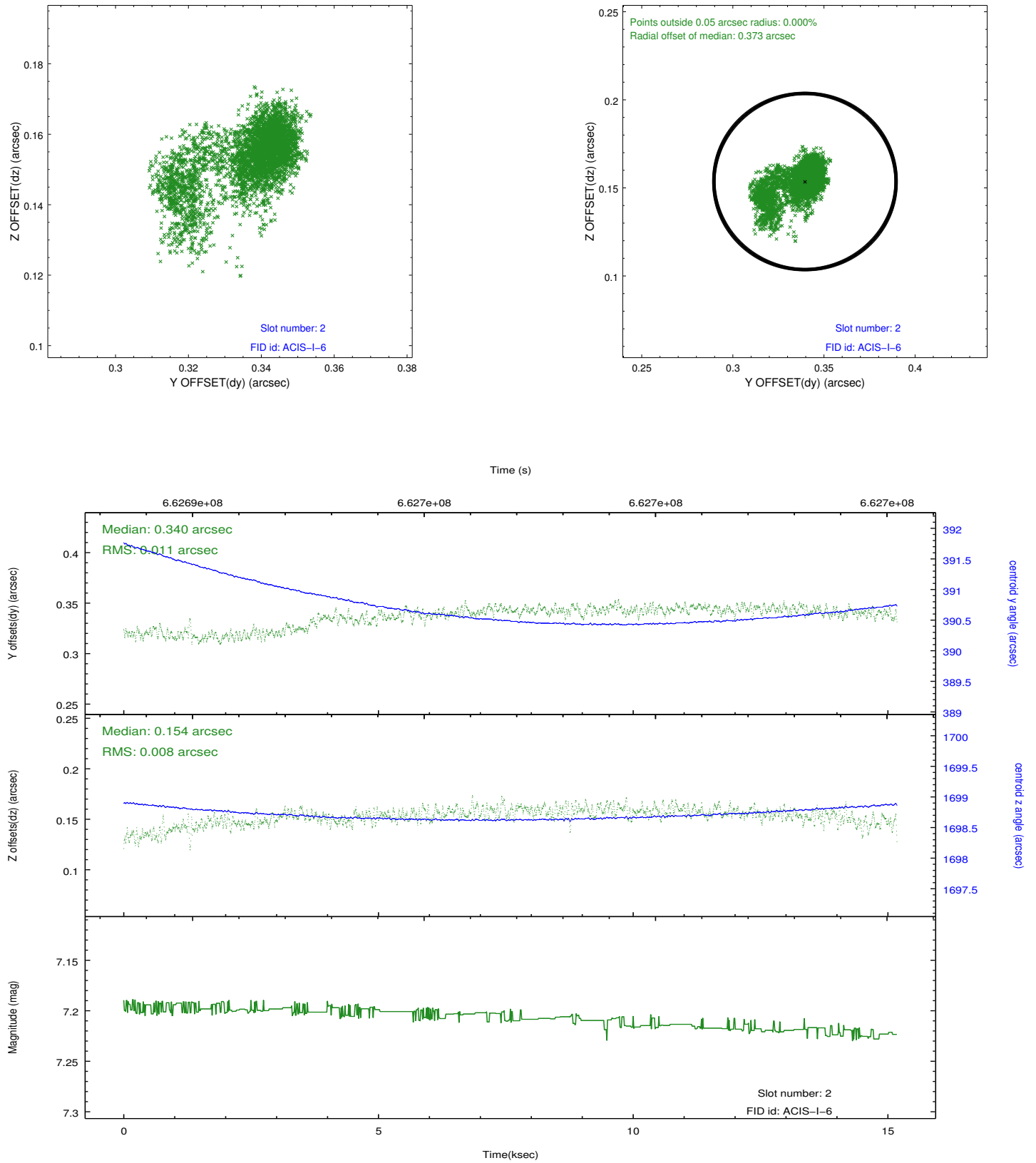
2.5.1 Slot 0



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)	2019.01.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.078400116086

A.2 Comments