

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 20012 - L2 Version 1
Chandra X-Ray Center

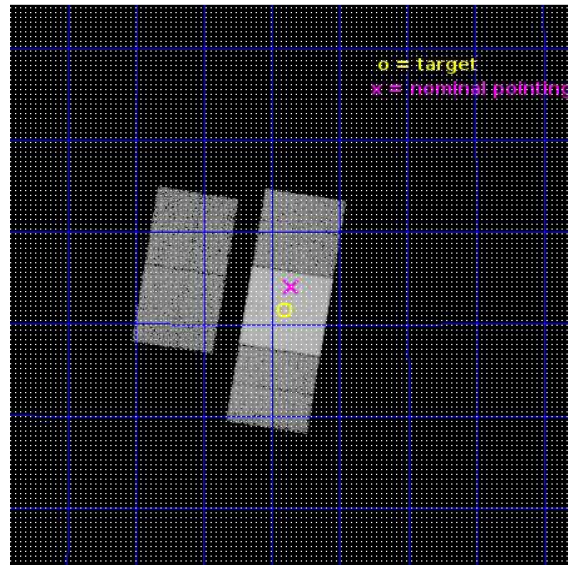
L2 Processing Date : Feb 23 2017

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1 Front

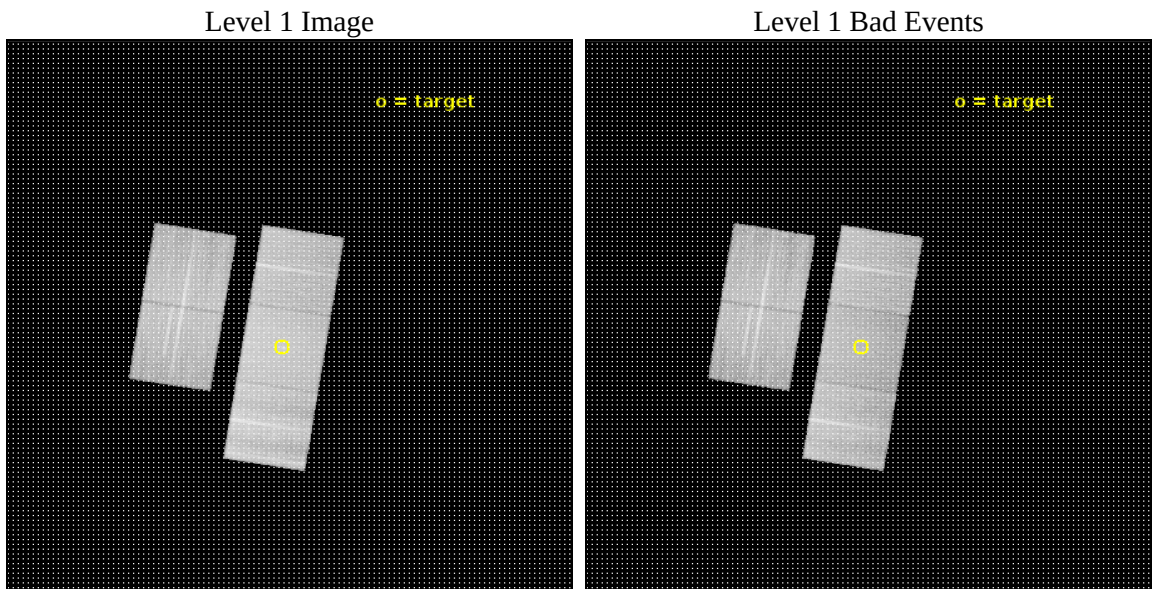
seq_num	601288	Sequence number
obs_id	20012	Observation id
title	A Statistically Robust Constraint on the Evolution of Field LMXBs	
observer	Bret Lehmer	Principal investigator
object	NGC 4382	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	186.350417	Observer's specified target RA [deg]
dec_targ	18.191083	Observer's specified target Dec [deg]
ra_nom	186.33896863728	Nominal RA [deg]
dec_nom	18.234646754647	Nominal Dec [deg]
roll_nom	99.160208762319	Nominal Roll [deg]
revision	1	Processing version of data
ontime	26408.562014341	Sum of GTIs [s]
livetime	26063.514709923	Livetime [s]
ontime2	26402.115763783	Sum of GTIs [s]
ontime3	26408.479934335	Sum of GTIs [s]
ontime6	26408.520974398	Sum of GTIs [s]
ontime7	26408.562014341	Sum of GTIs [s]
ontime8	26402.156793833	Sum of GTIs [s]
l2events	181240	Number of level 2 events



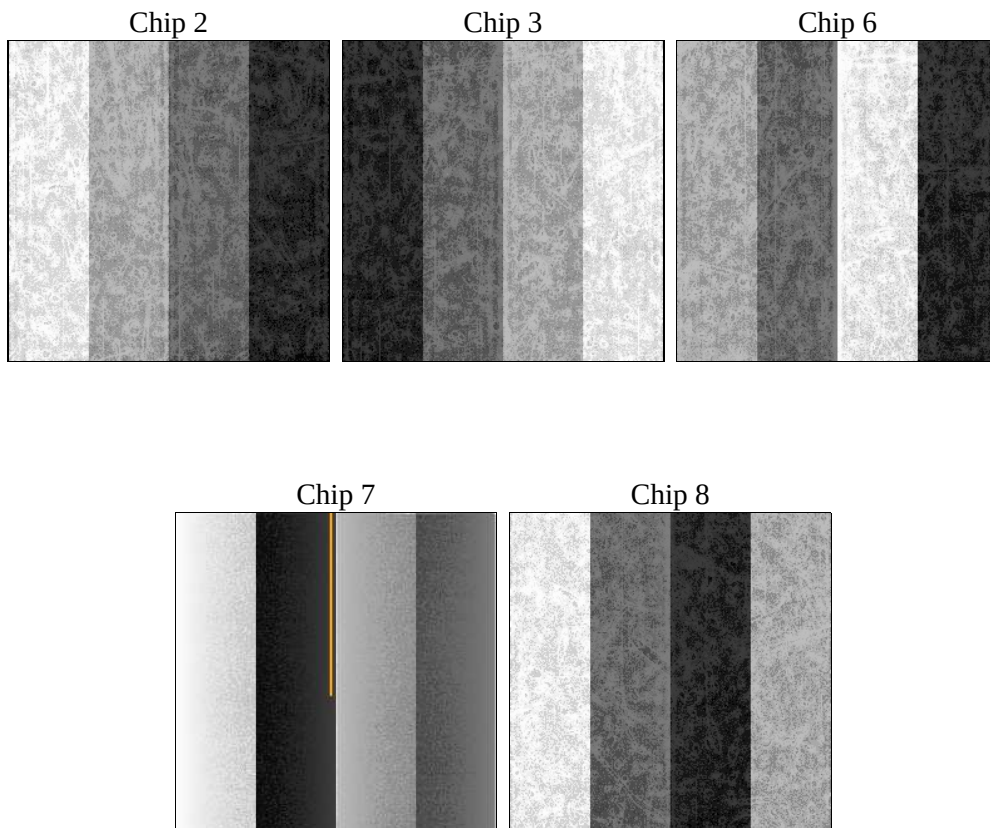
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	26350.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	26408.562014341	Sum of GTIs [s]
caldsver	4.7.3	 	ontime2	26402.115763783	Sum of GTIs [s]
date	2017-02-23T12:23:48	Date and time of file creation	ontime3	26408.479934335	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	26408.520974398	Sum of GTIs [s]
			ontime7	26408.562014341	Sum of GTIs [s]
			ontime8	26402.156793833	Sum of GTIs [s]
			l1events	1070366	Number of level 1 events

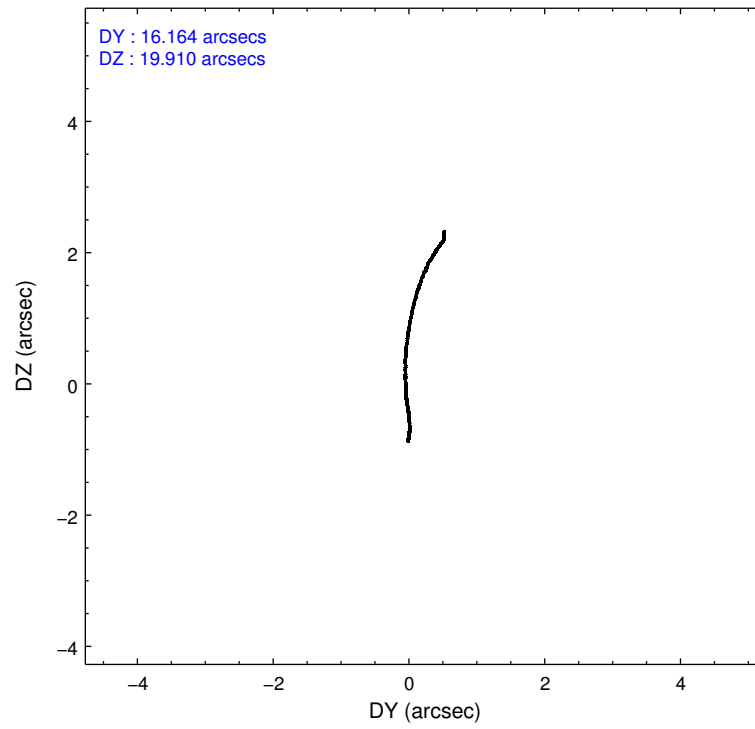
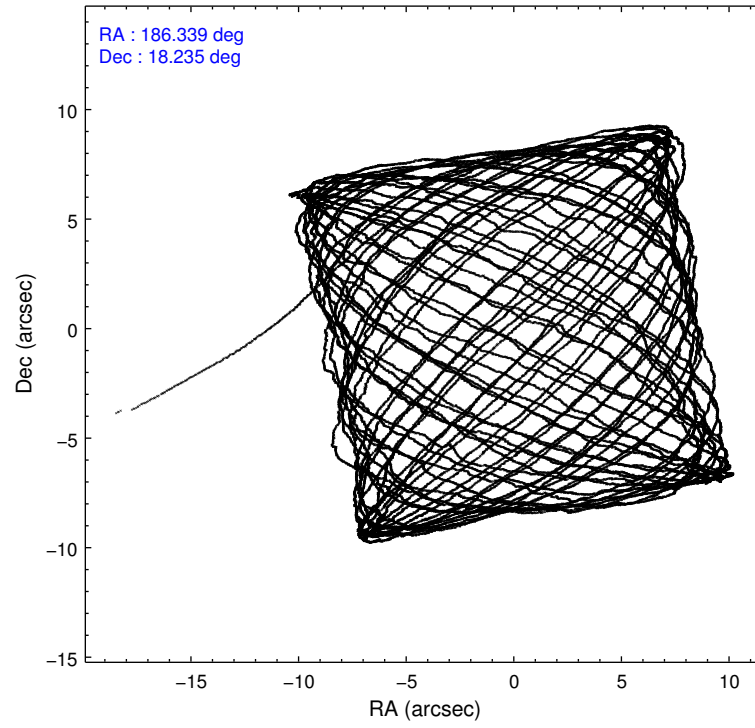
2.1.4 Events

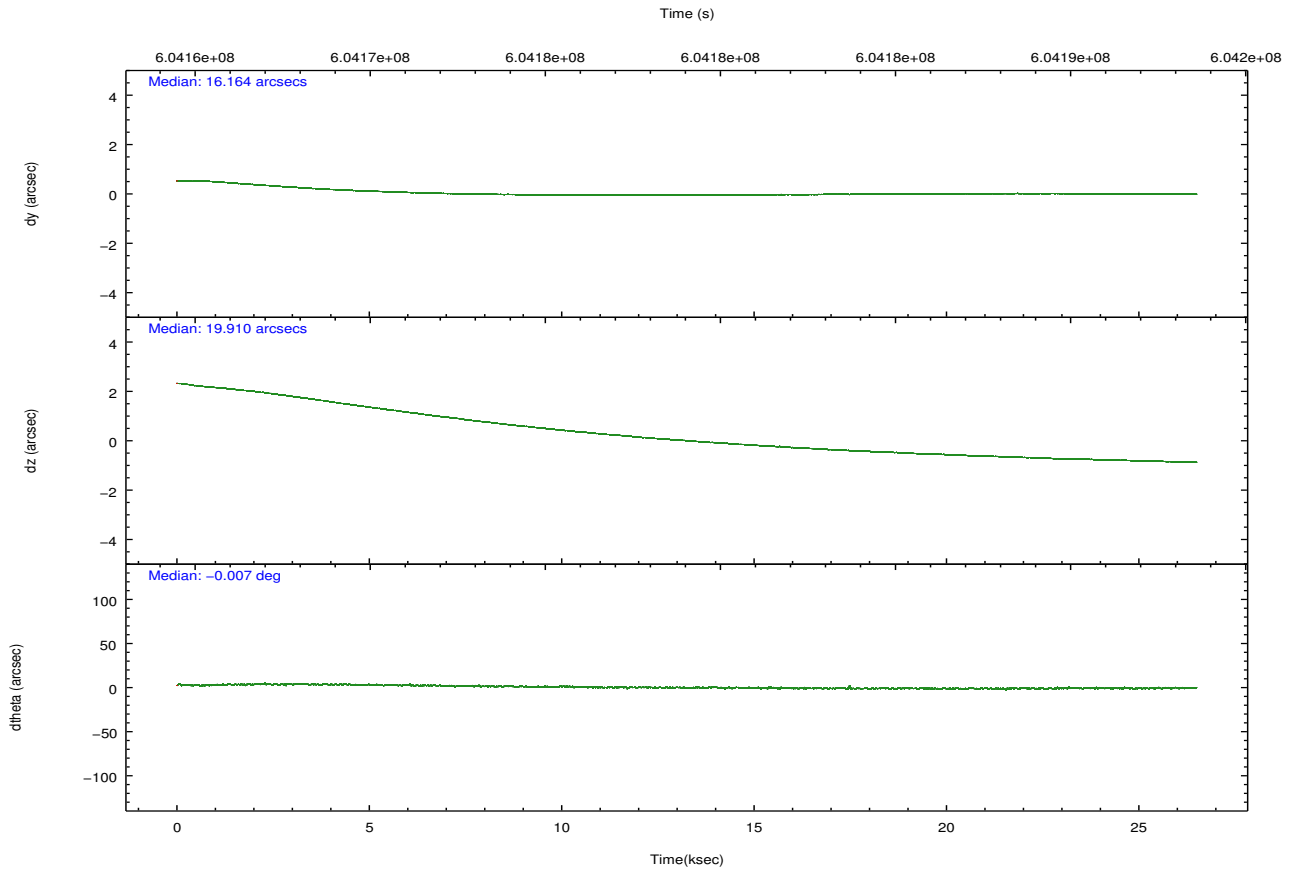
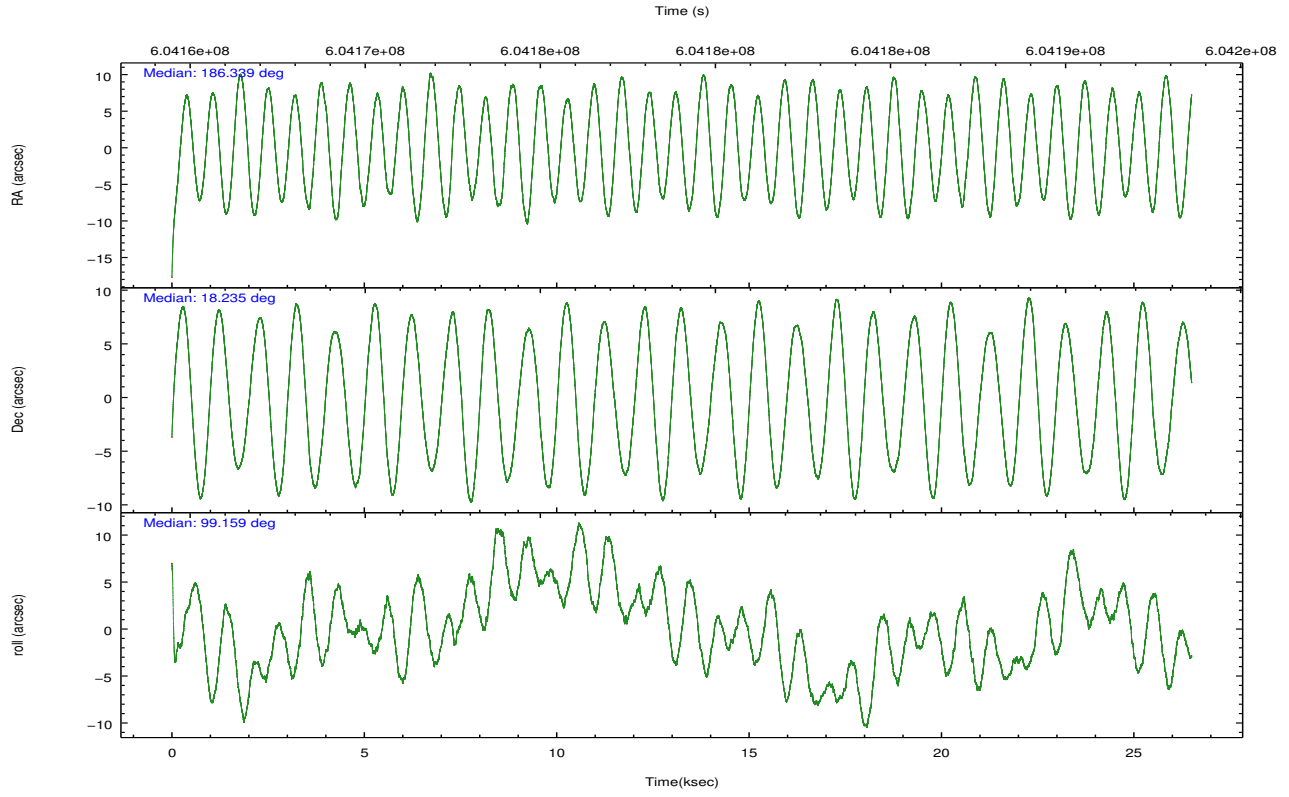
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	187858	184031	198170	248024	252283	grade 0 events	6988	6857	7463	9685	19849
rejected events	167788	164471	176035	139432	183249		3%	3%	3%	3%	7%
rejected %	89%	89%	88%	56%	72%	grade 1 events	100	108	93	330	189
							0%	0%	0%	0%	0%
						grade 2 events	4933	4288	4989	23184	17158
							2%	2%	2%	9%	6%
						grade 3 events	2015	2117	2255	8943	7171
							1%	1%	1%	3%	2%
						grade 4 events	2108	2091	2182	8832	6723
							1%	1%	1%	3%	2%
						grade 5 events	7560	9030	9279	25098	13642
							4%	4%	4%	10%	5%
						grade 6 events	4028	4208	5249	57971	18136
							2%	2%	2%	23%	7%
						grade 7 events	160126	155332	166660	113981	169415
							85%	84%	84%	45%	67%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	186.357525	186.3389686372765	CCD I2 on	O2	Y
[deg] Pointing Dec	18.213576	18.23464675464678	CCD I3 on	O1	Y
[deg] Pointing Roll	98.997771	99.16020876231948	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[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	Y	Y
[s] Observation start time (MET)	604165951.184000	604164710.72681	CCD S5 on	N	N
Observation start date	2017-02-22T15:51:22	2017-02-22T15:31:50	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	604192301.184000	604193534.24098	On-chip summing requested	N	N
Observation end date	2017-02-22T23:10:32	2017-02-22T23:32:14	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



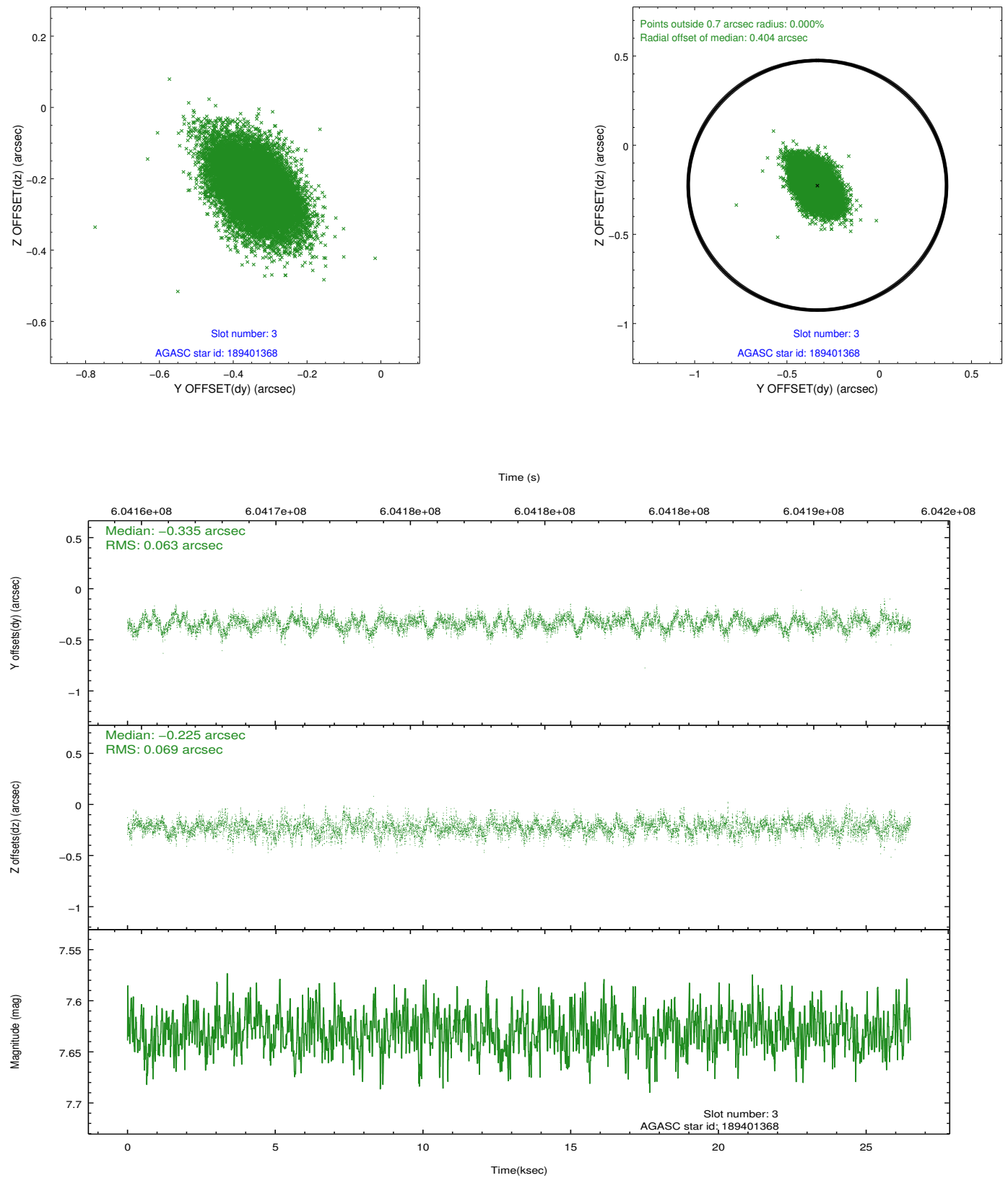


Slot Statistics

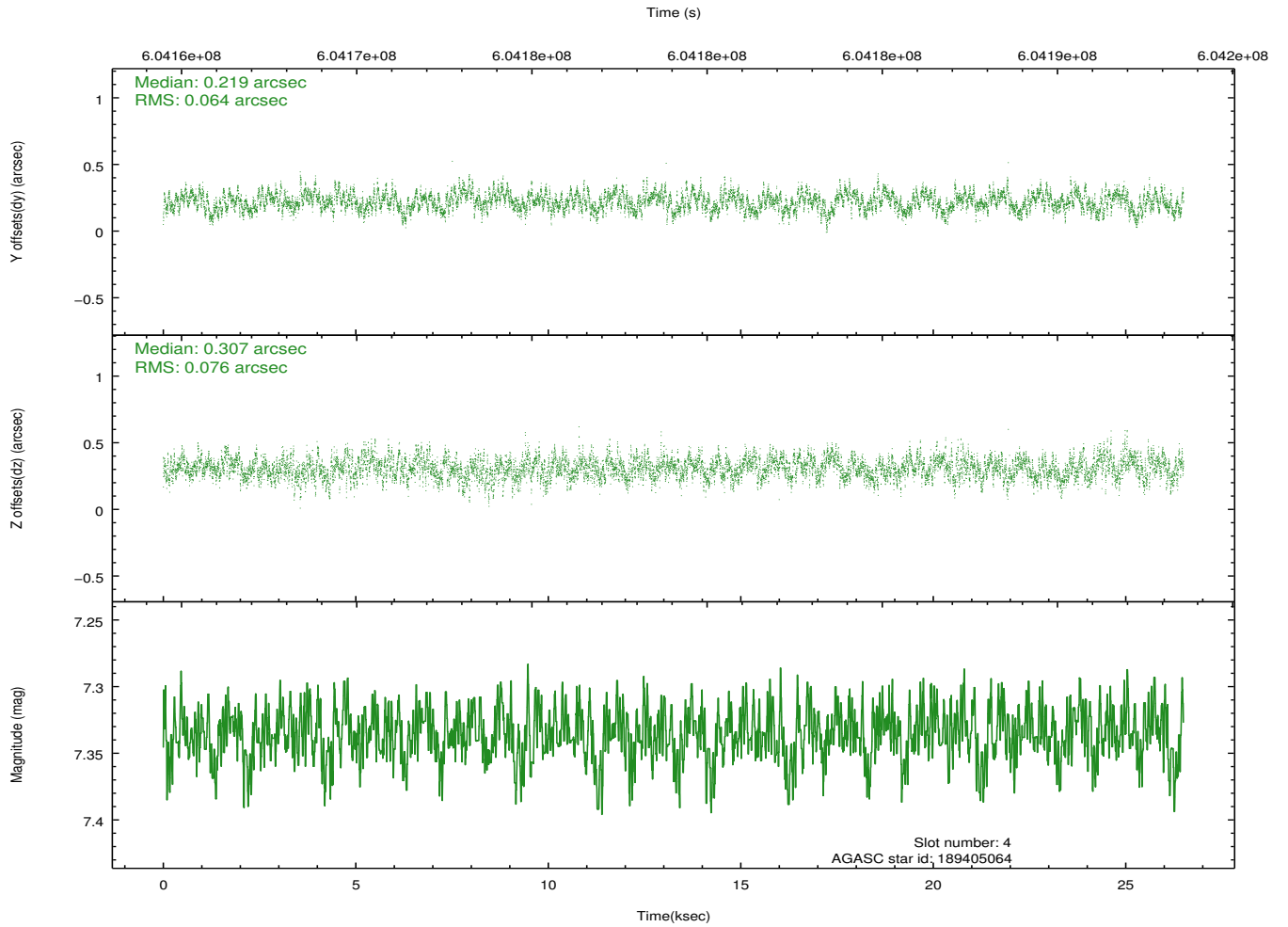
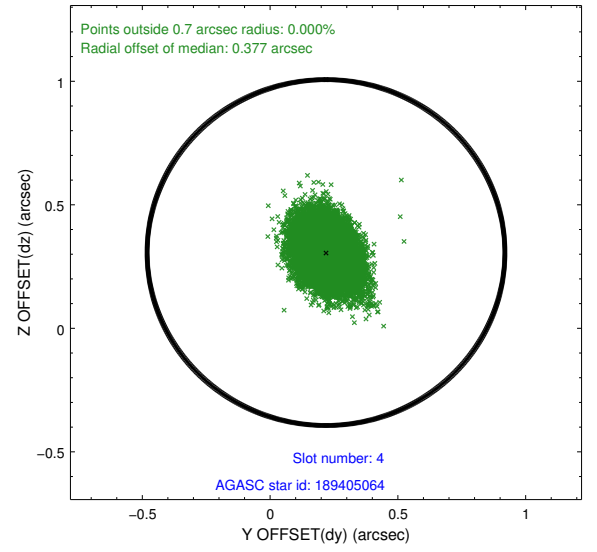
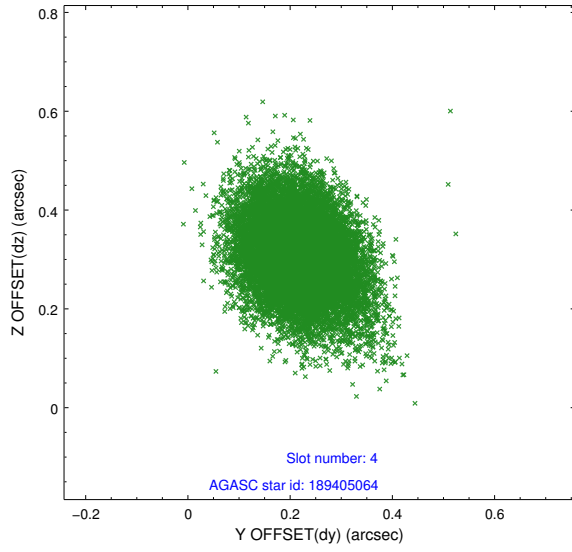
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.08	6465	0.109	-0.054	0.026	0.039	0.000000	0.000000	926.98	-1737.37
1	FID		ACIS-S-5	7.10	6464	-0.255	0.050	0.015	0.023	0.000000	0.000000	-1822.38	160.10
2	FID		ACIS-S-6	7.24	6465	0.129	0.015	0.033	0.047	0.000000	0.000000	392.36	804.21
3	GUIDE	used	189401368	7.63	12926	-0.335	-0.225	0.097	0.164	186.150770	18.668355	1727.75	440.23
4	GUIDE	used	189405064	7.34	12928	0.219	0.307	0.105	0.169	186.887888	17.834342	-1629.75	-1581.07
5	GUIDE	used	189411056	8.67	12919	0.068	-0.114	0.126	0.210	186.168211	17.852769	-1182.64	843.61
6	GUIDE	used	189683448	9.06	12917	0.258	0.048	0.225	0.354	186.626682	18.890381	2264.38	-1286.53
7	GUIDE	used	189665040	8.43	12919	-0.214	-0.012	0.108	0.178	186.390146	18.867028	2305.94	-477.42

2.4 Star Slots

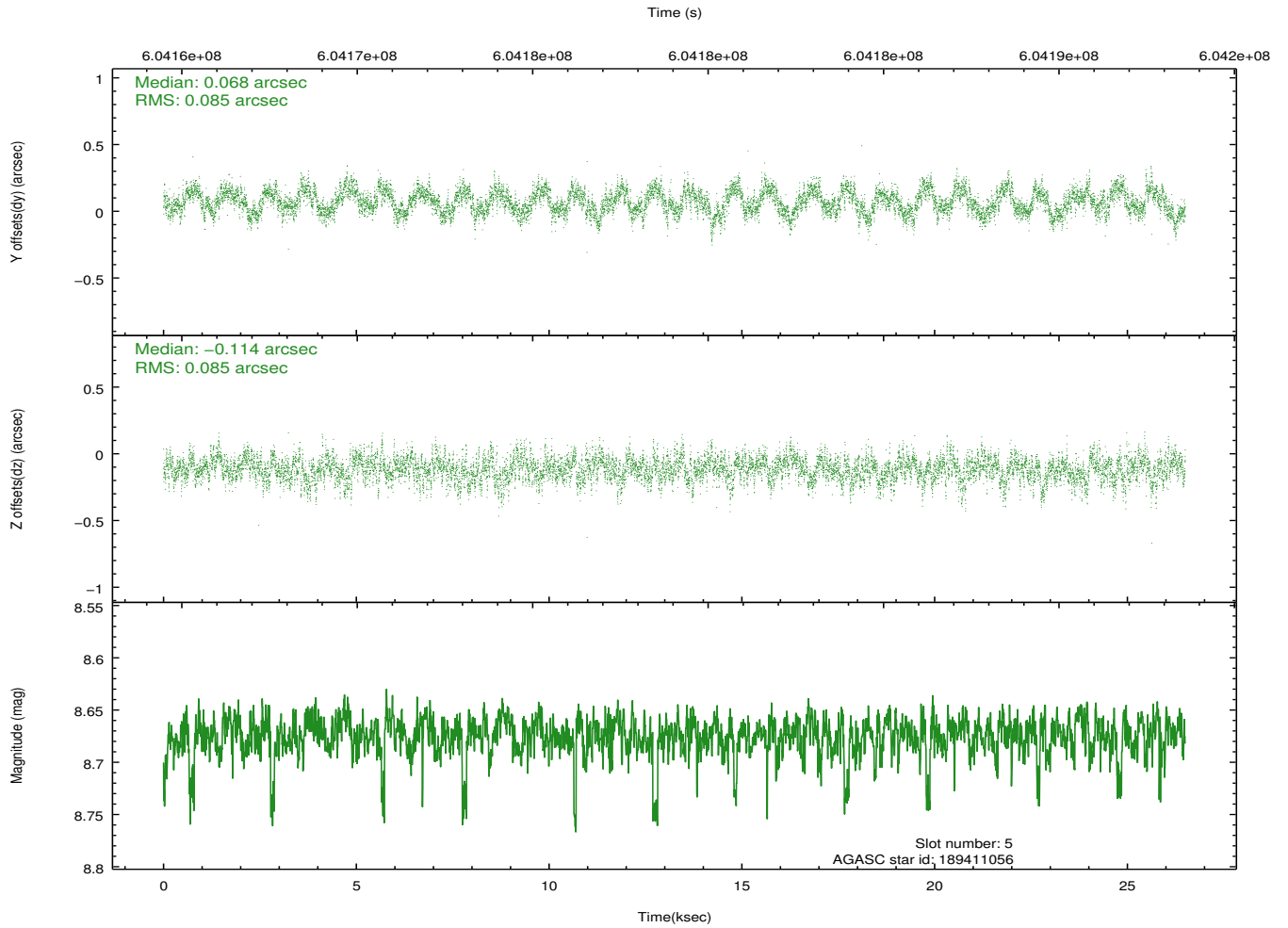
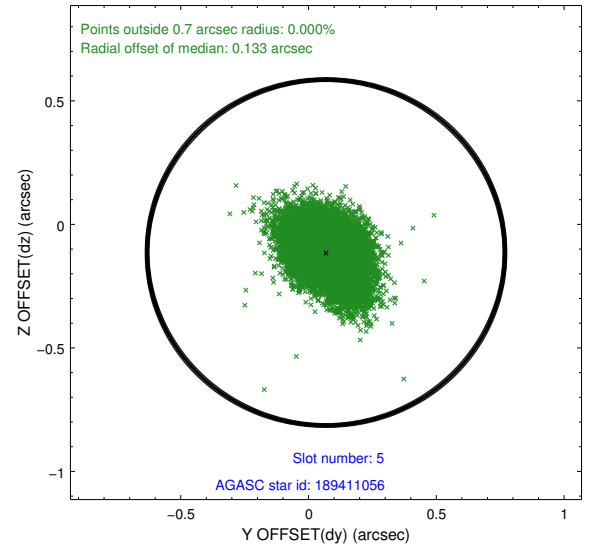
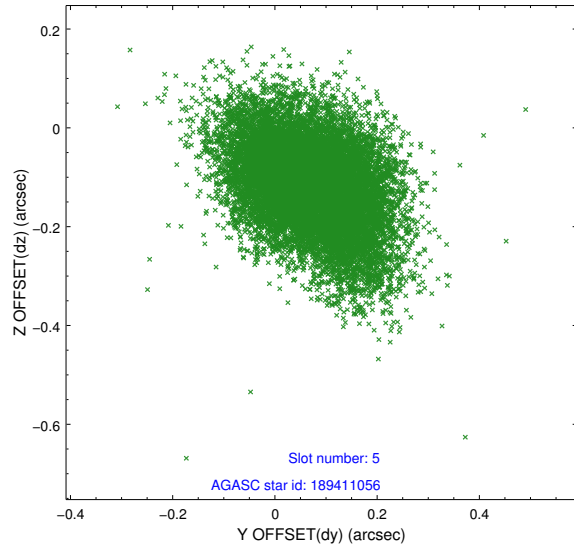
2.4.1 Slot 3



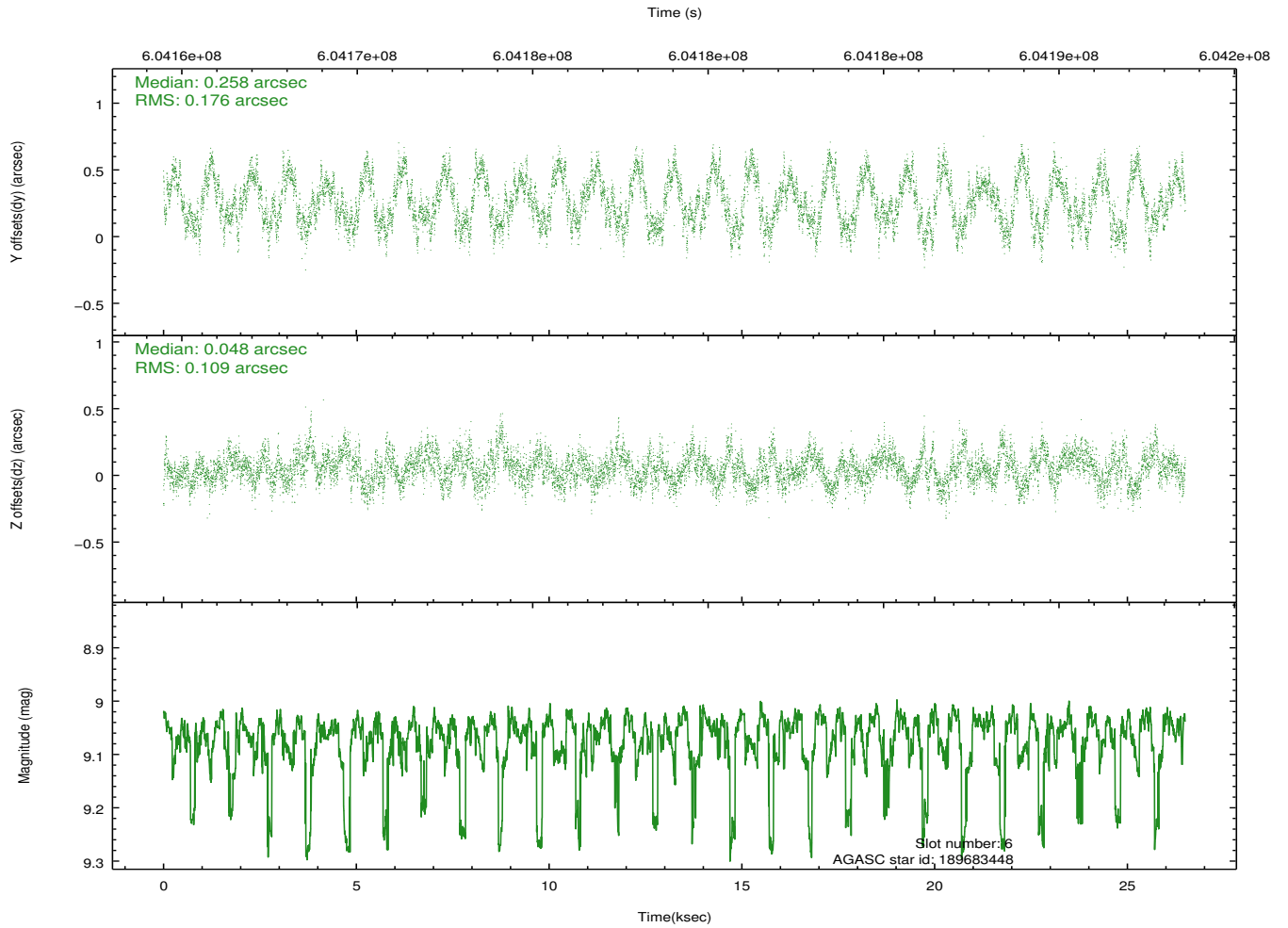
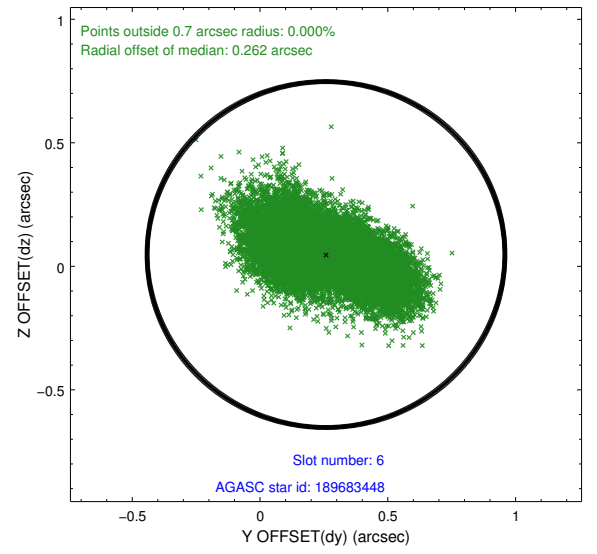
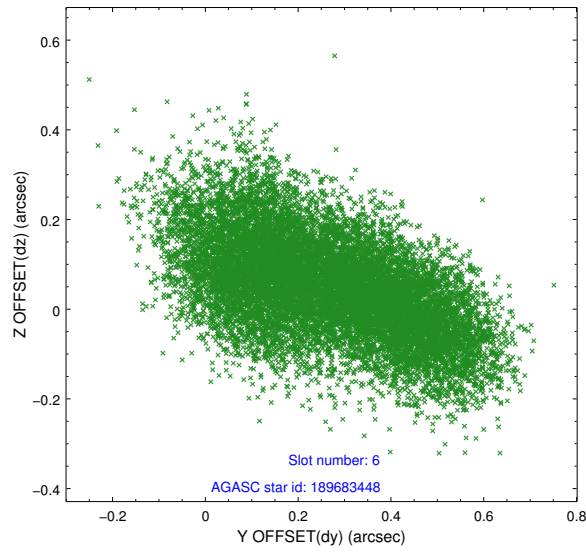
2.4.2 Slot 4



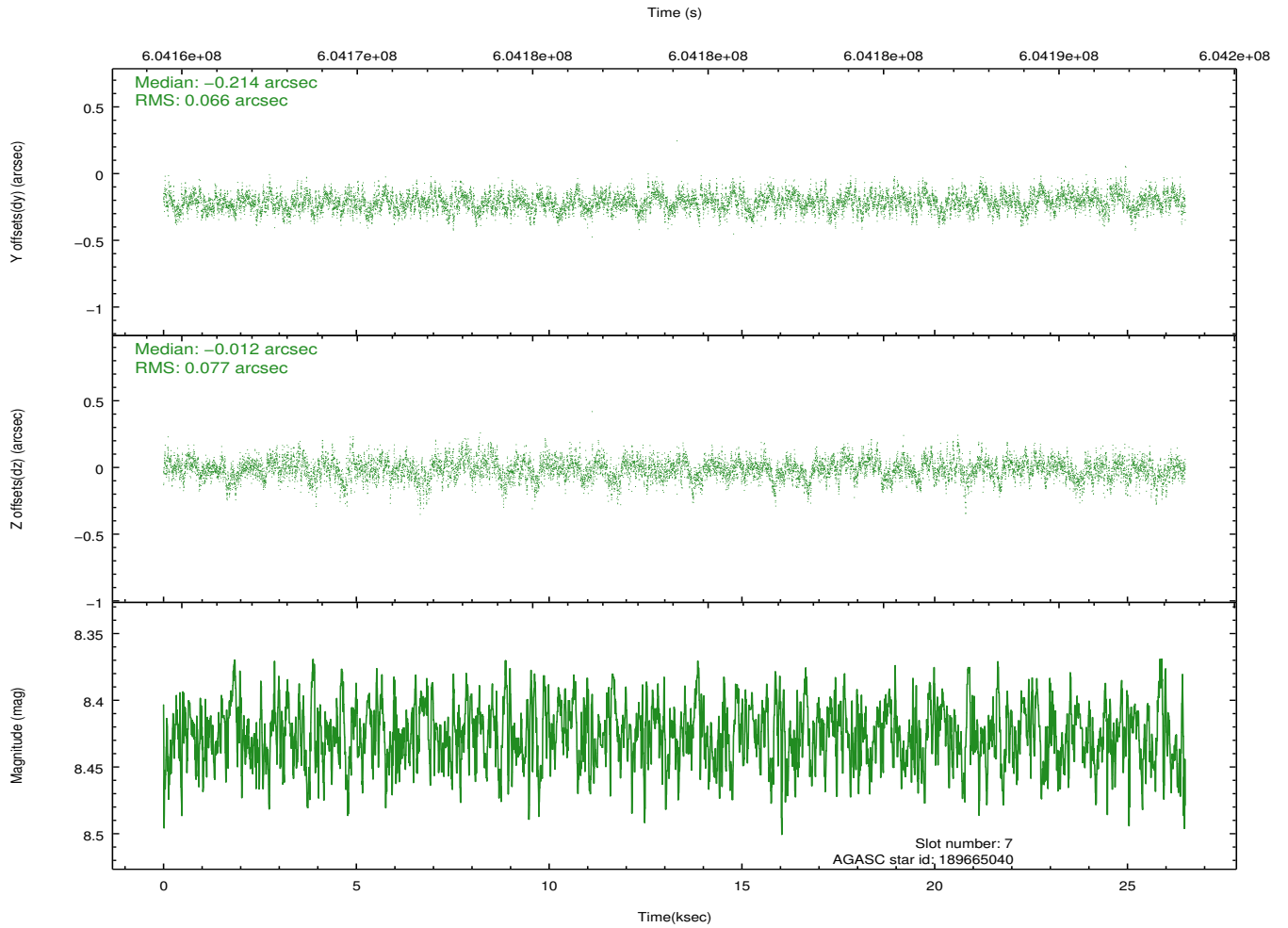
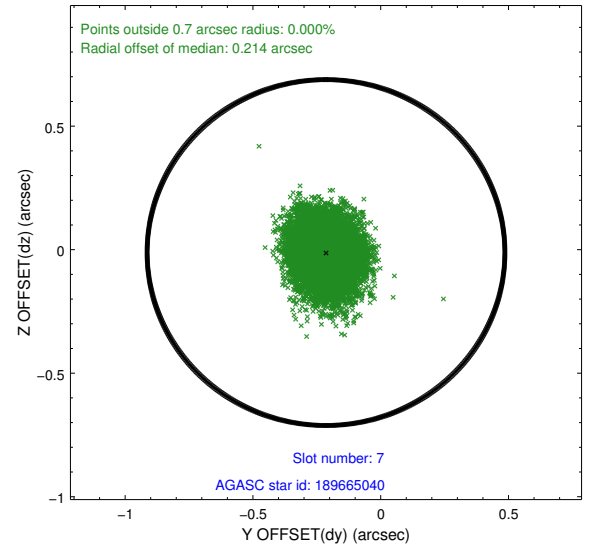
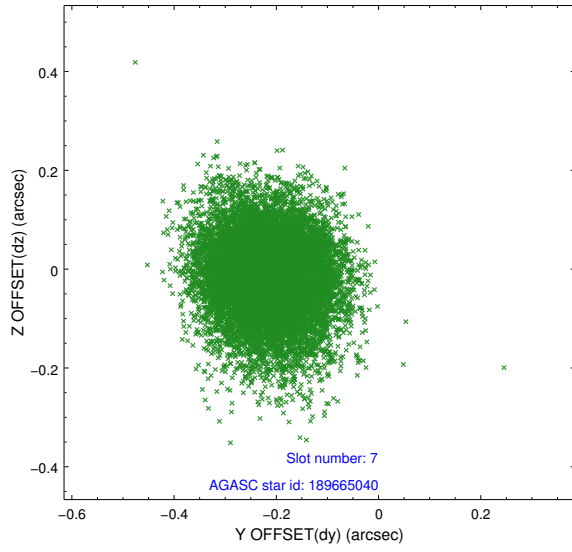
2.4.3 Slot 5



2.4.4 Slot 6

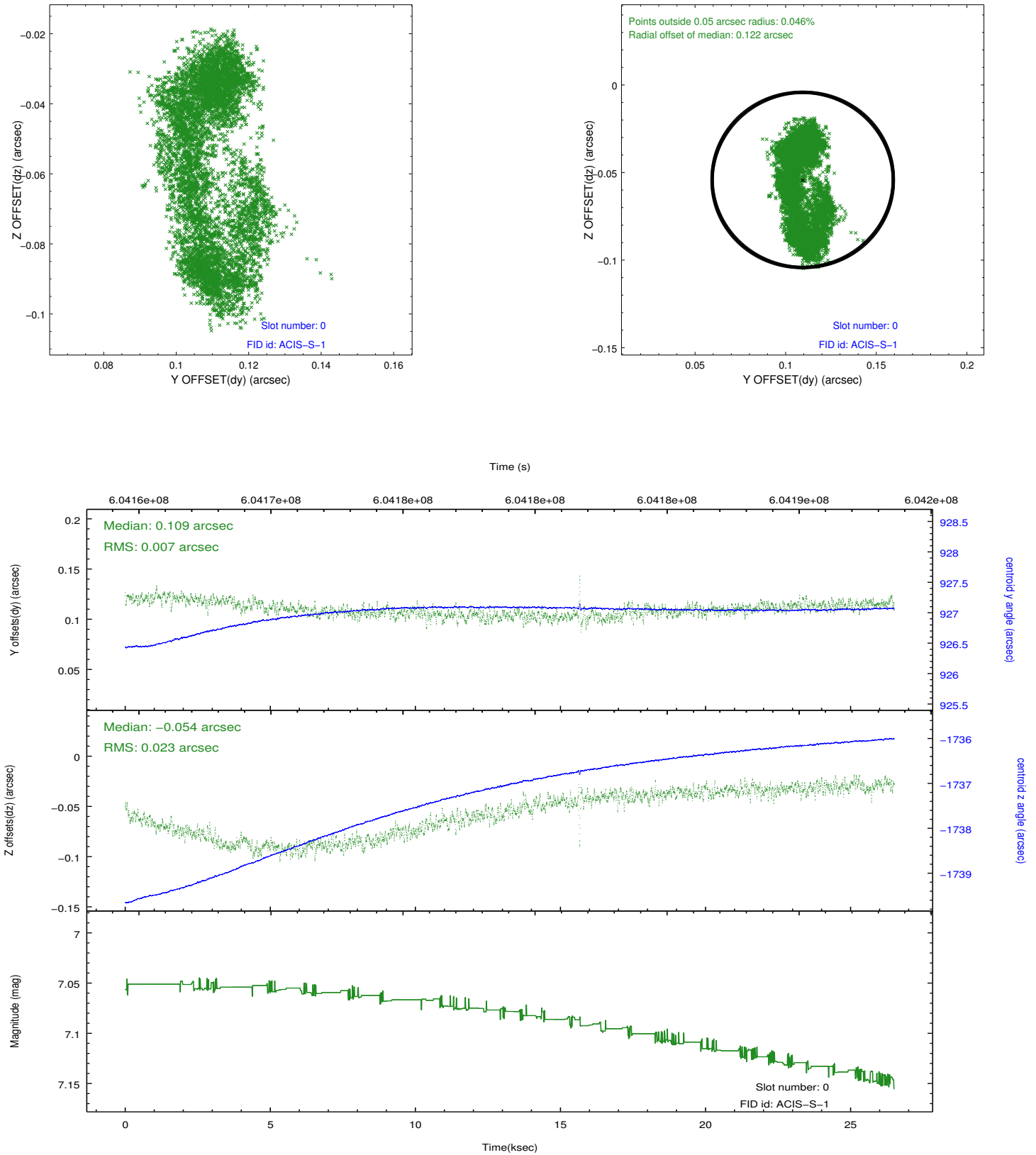


2.4.5 Slot 7

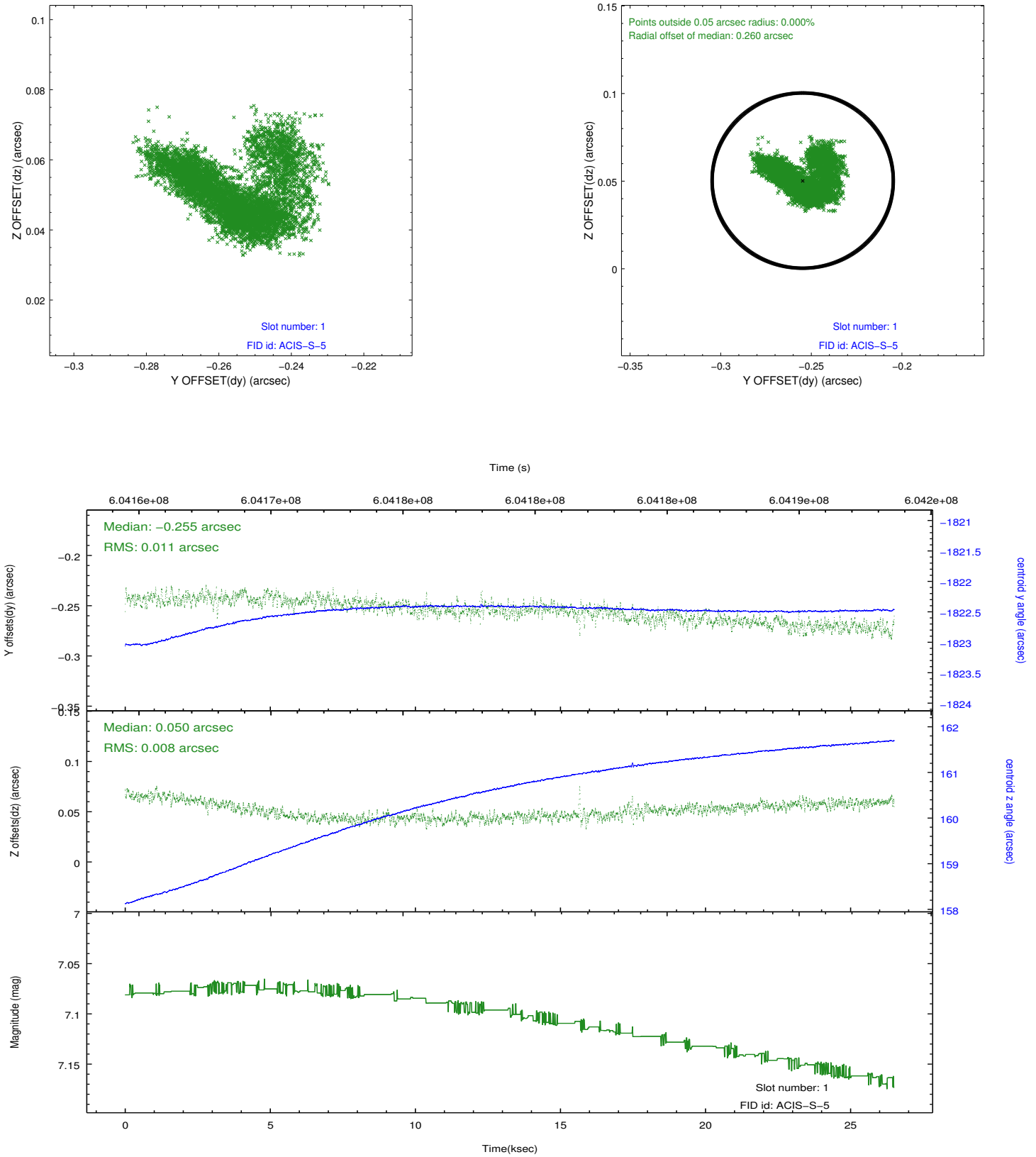


2.5 FID Slots

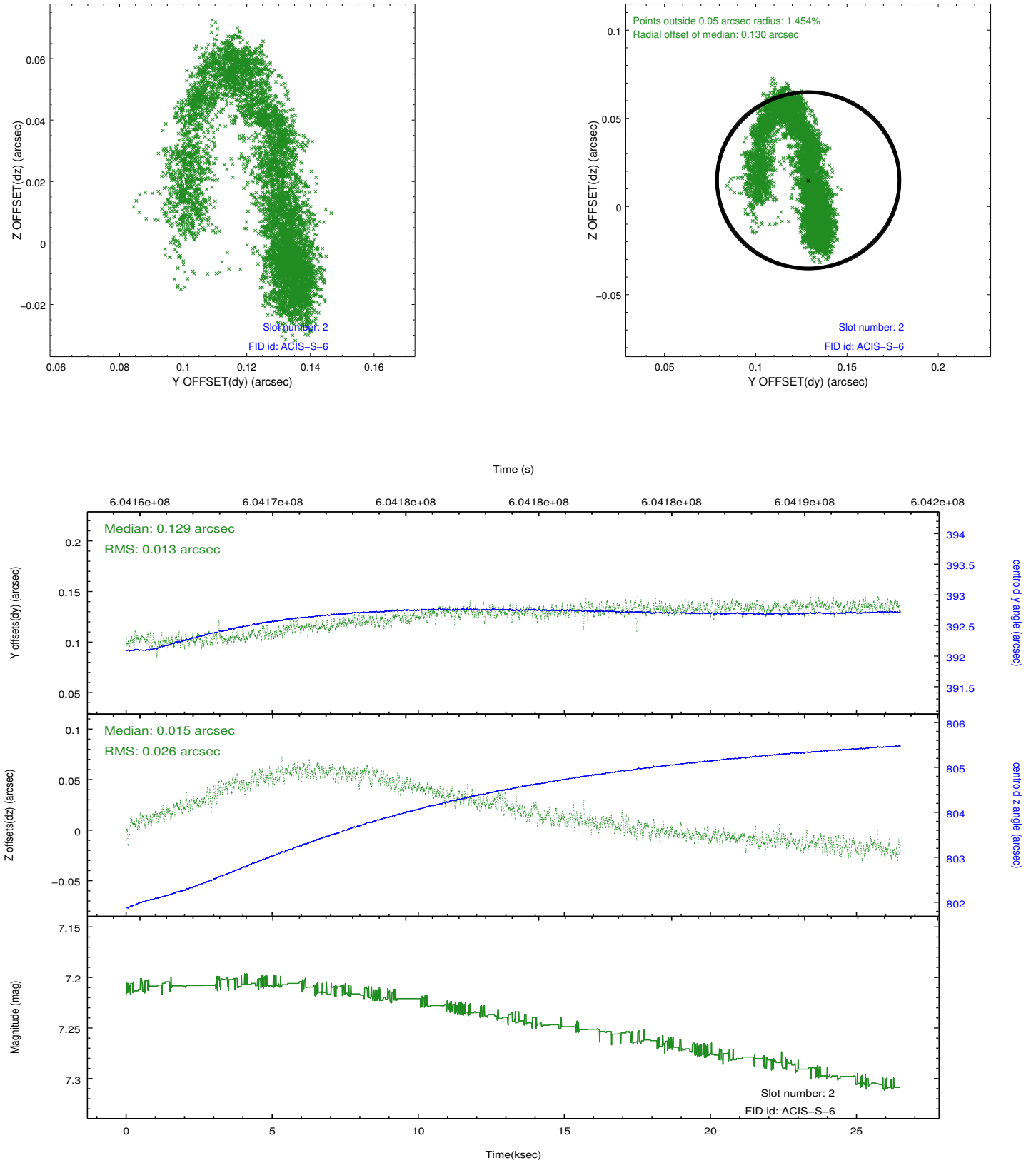
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2017.02.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	26.408562014341

A.2 Comments

Joint Proposal: HST