

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12370 - L2 Version 3
Chandra X-Ray Center

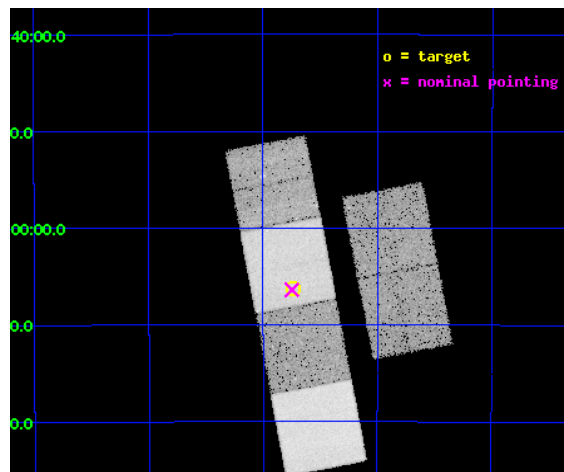
L2 Processing Date : Mar 2 2012

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1 Front

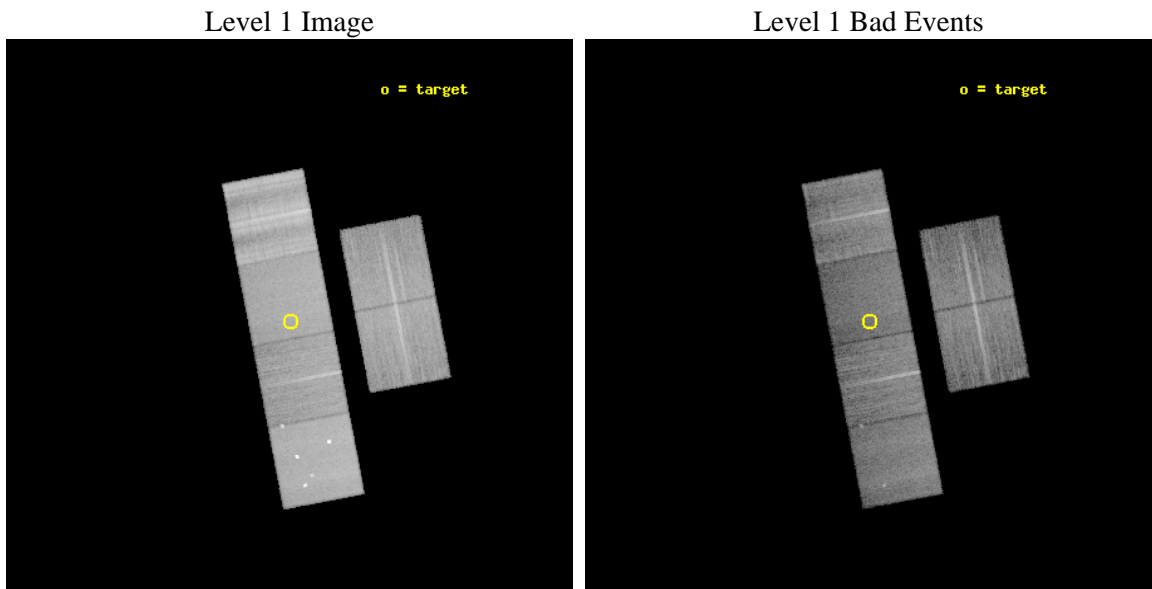
seq_num	200704	Sequence number
obs_id	12370	Observation id
title	X-rays from Planetary Nebulae: Unveiling Binarity, Magnetic Fields, and Wind Collisions	Proposal title
observer	Dr. Joel Kastner	Principal investigator
object	NGC 6302	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	258.434167	Observer's specified target RA [deg]
dec_targ	-37.104417	Observer's specified target Dec [deg]
ra_nom	258.43692732315	Nominal RA [deg]
dec_nom	-37.106490013313	Nominal Dec [deg]
roll_nom	259.15829589172	Nominal Roll [deg]
revision	3	Processing version of data
ontime	22828.799915016	Sum of GTIs [s]
livetime	22539.727904639	Livetime [s]
ontime2	22828.799915016	Sum of GTIs [s]
ontime3	22825.55896455	Sum of GTIs [s]
ontime5	22828.799915016	Sum of GTIs [s]
ontime6	22828.799915016	Sum of GTIs [s]
ontime7	22828.799915016	Sum of GTIs [s]
ontime8	22828.799915016	Sum of GTIs [s]
l2events	239767	Number of level 2 events



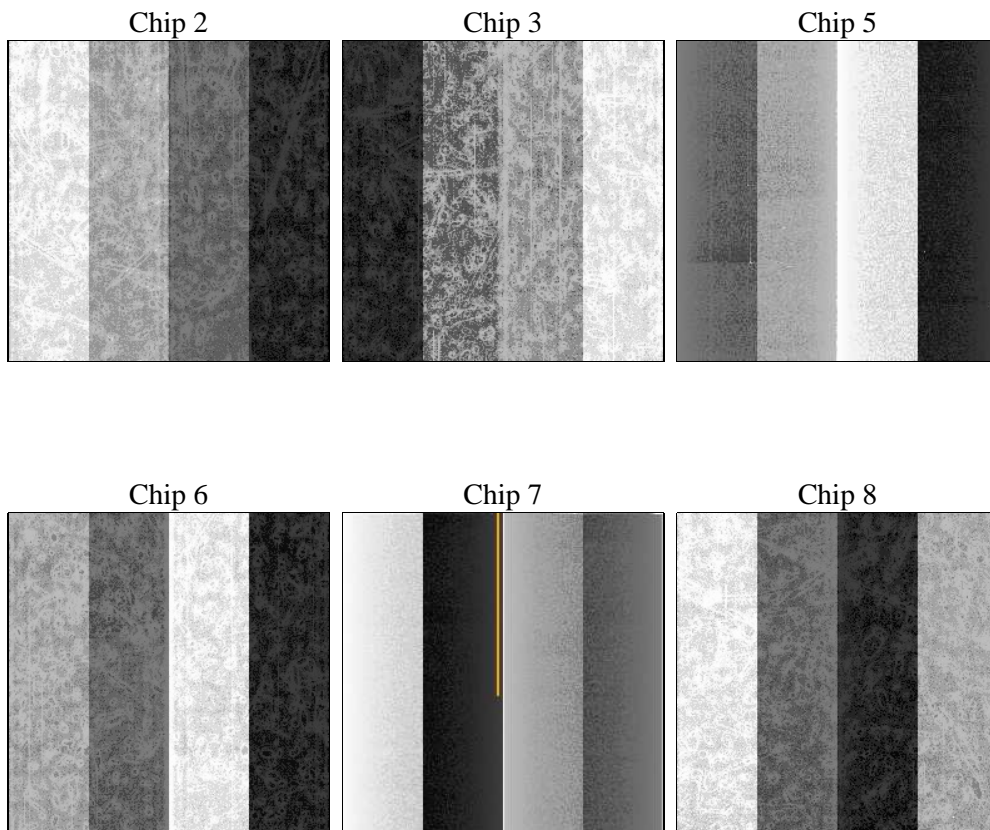
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	2	Obi number	sched_exp_time	30000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	22828.799915016	Sum of GTIs [s]
caldbver	4.4.8	 	ontime2	22828.799915016	Sum of GTIs [s]
date	2012-03-02T18:30:10	Date and time of file creation	ontime3	22825.55896455	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	22828.799915016	Sum of GTIs [s]
			ontime6	22828.799915016	Sum of GTIs [s]
			ontime7	22828.799915016	Sum of GTIs [s]
			ontime8	22828.799915016	Sum of GTIs [s]
			l1events	1078059	Number of level 1 events

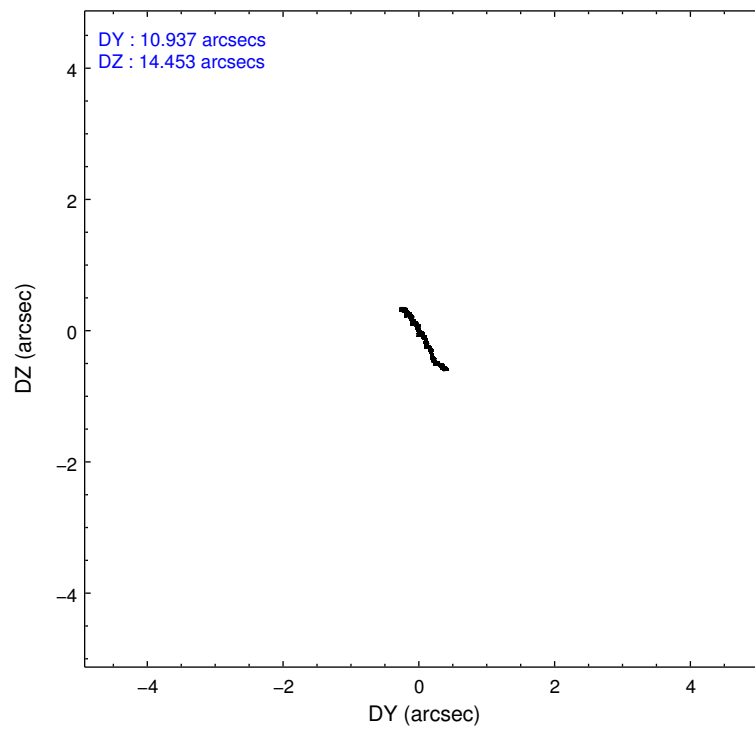
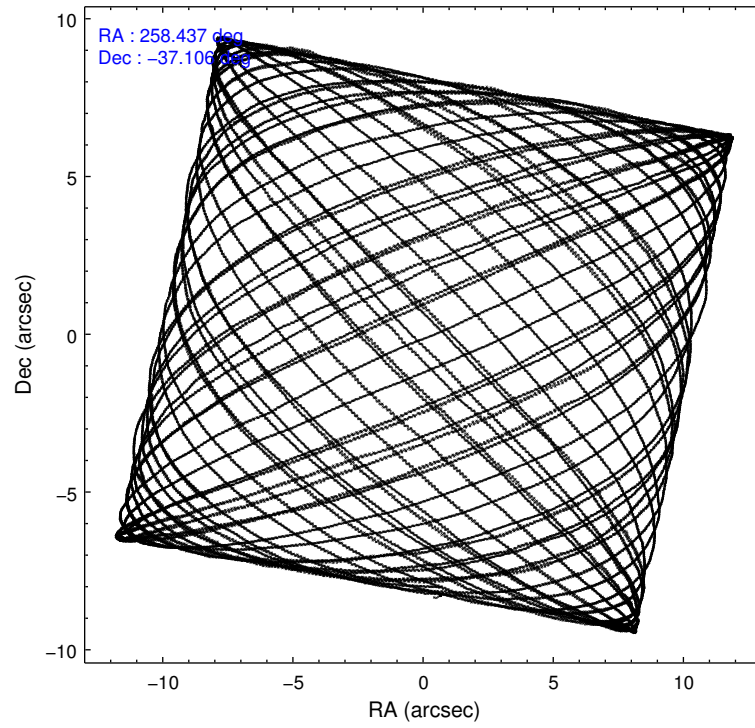
2.1.4 Events

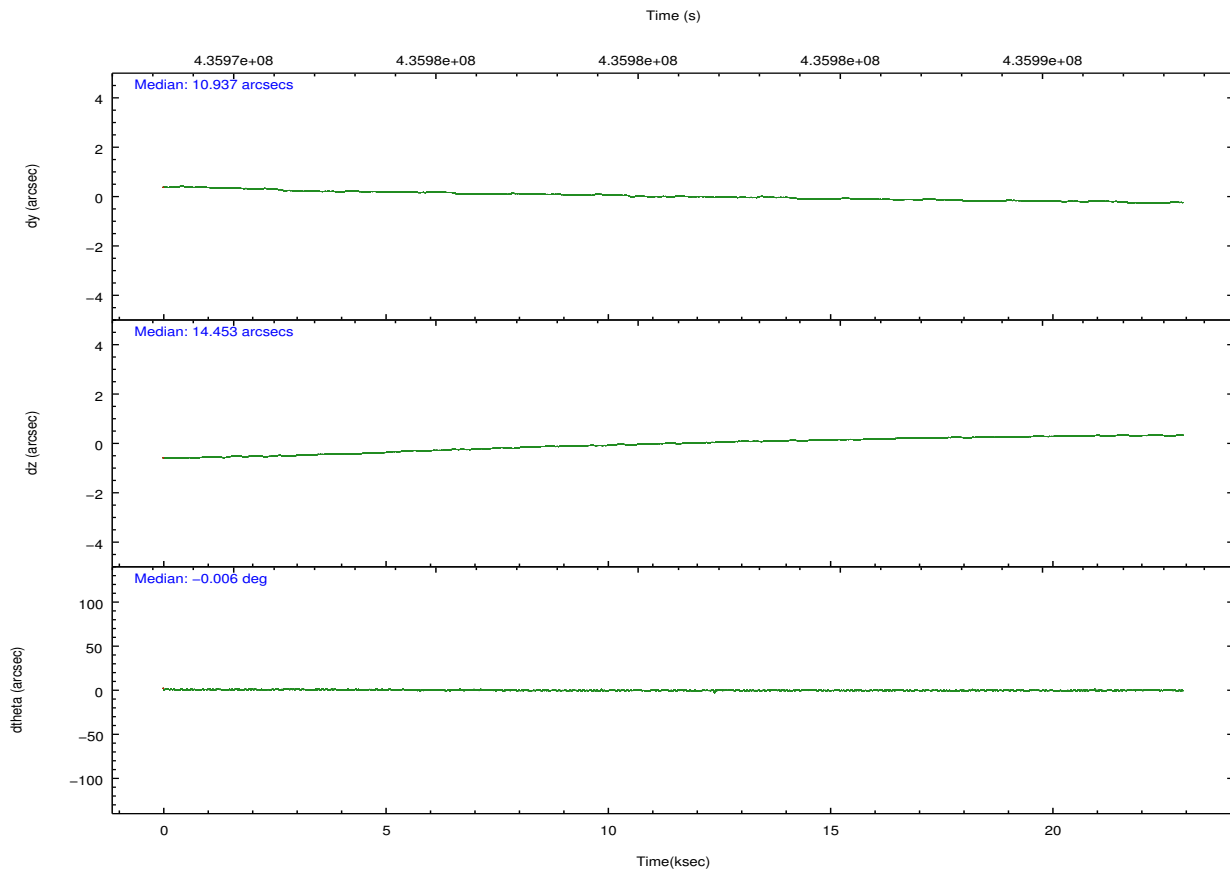
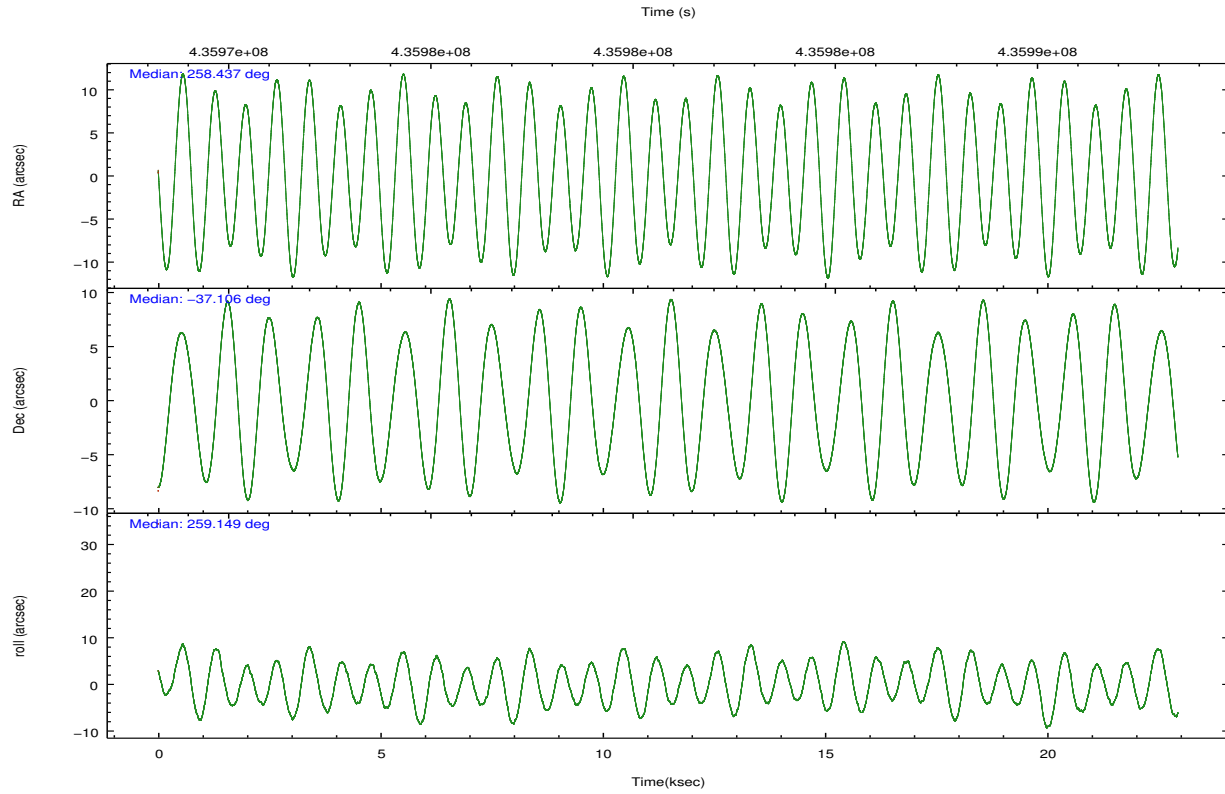
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	145739	135340	229966	142932	176080	248002	grade 0 events	7276	5665	17875	7397	7384	38027
rejected events	127548	120471	113309	124626	96458	138104		4%	4%	7%	5%	4%	15%
rejected %	87%	89%	49%	87%	54%	55%	grade 1 events	123	68	700	73	228	380
								0%	0%	0%	0%	0%	0%
							grade 2 events	4534	3267	35197	4184	16964	17010
								3%	2%	15%	2%	9%	6%
							grade 3 events	1566	1547	4473	1627	7010	17811
								1%	1%	1%	1%	3%	7%
							grade 4 events	1805	1531	4298	1611	6939	16196
								1%	1%	1%	1%	3%	6%
							grade 5 events	5879	6210	16686	6466	17762	9935
								4%	4%	7%	4%	10%	4%
							grade 6 events	3080	2919	55263	3536	41644	21256
								2%	2%	24%	2%	23%	8%
							grade 7 events	121476	114133	95474	118038	78149	127387
								83%	84%	41%	82%	44%	51%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
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	258.425233	258.436927323152	Subarray requested	NONE	NONE
[deg] Pointing Dec	-37.080786	-37.10649001331332	Alternating exposures requested	N	N
[deg] Pointing Roll	258.994622	259.1582958917157	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-0.6828225247311905	-0.6828225247311905			
[mm] SIM defocus	0.001444942264670179	0.001444942264670179			
[mm] SIM translation stage pos	-190.1400660498719	-190.1400660498719			
[mm] SIM translation stage offset	0.007542945904702947	0.007542945904702947			
[s] Observation start time (MET)	435969393.184000	435969393.184			
Observation start date	2011-10-25T22:35:27	2011-10-25T22:36:33			
[s] Observation end time (MET)	435992334.191597	435992334.191597			
Observation end date	2011-10-26T05:00:17	2011-10-26T04:58:54			
Read mode	TIMED	TIMED			

2.3 Aspect



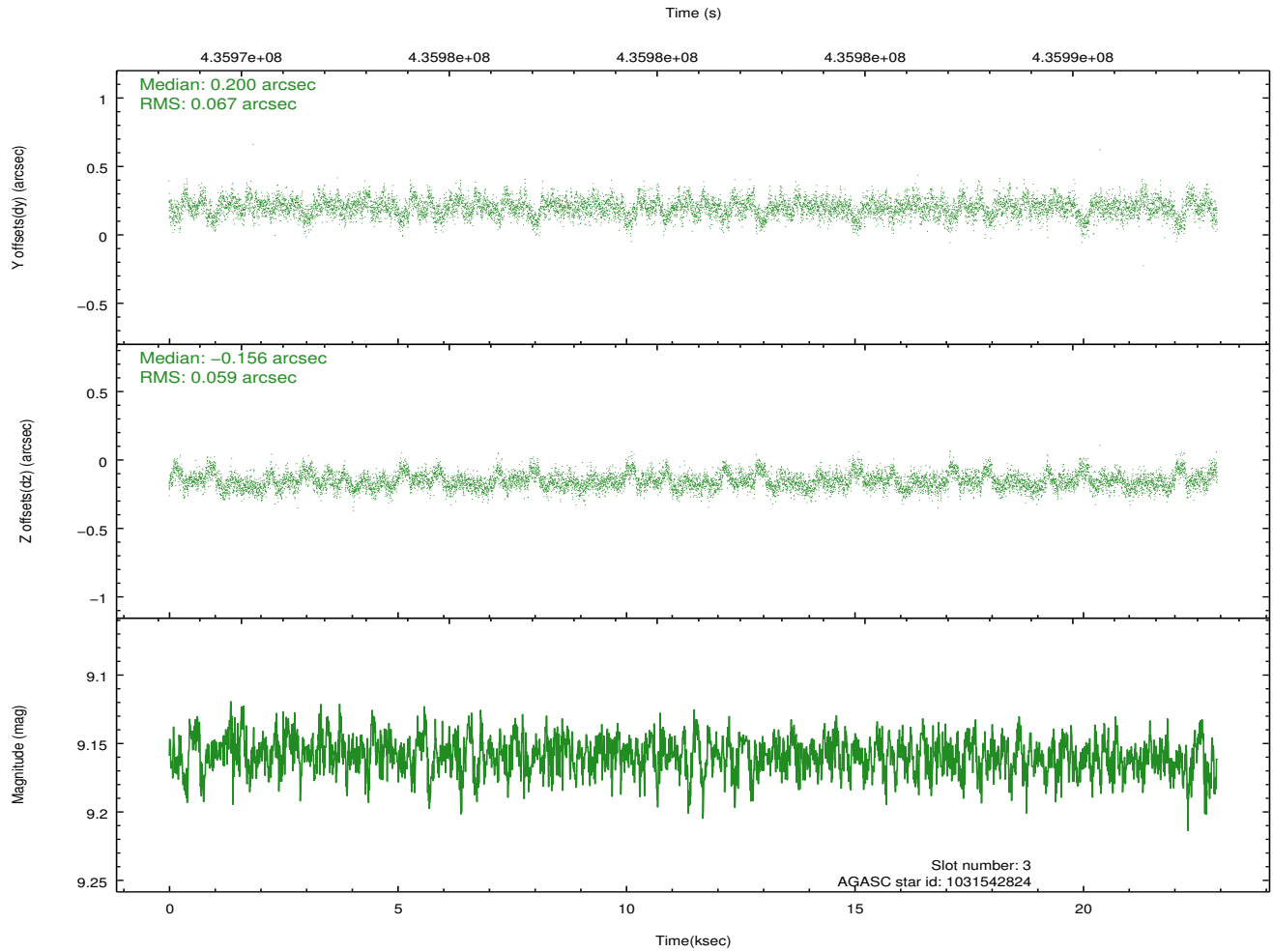
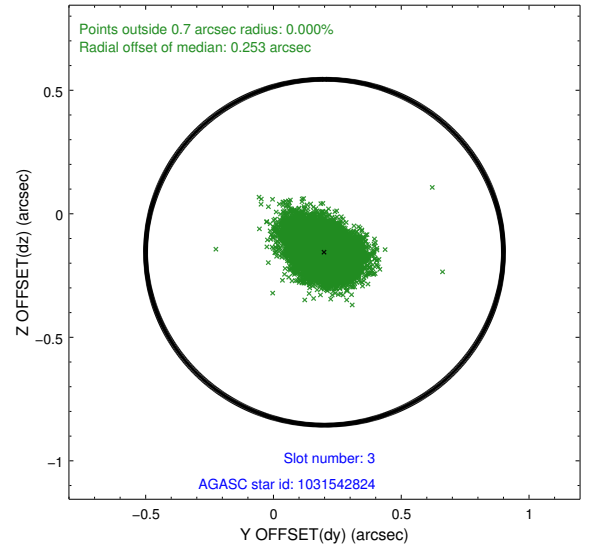
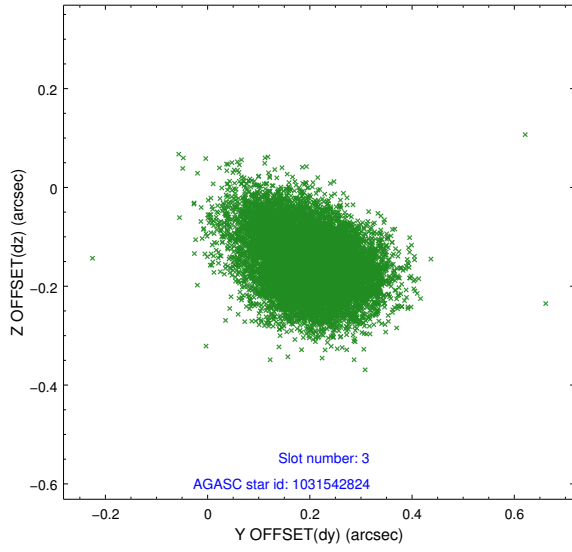


Slot Statistics

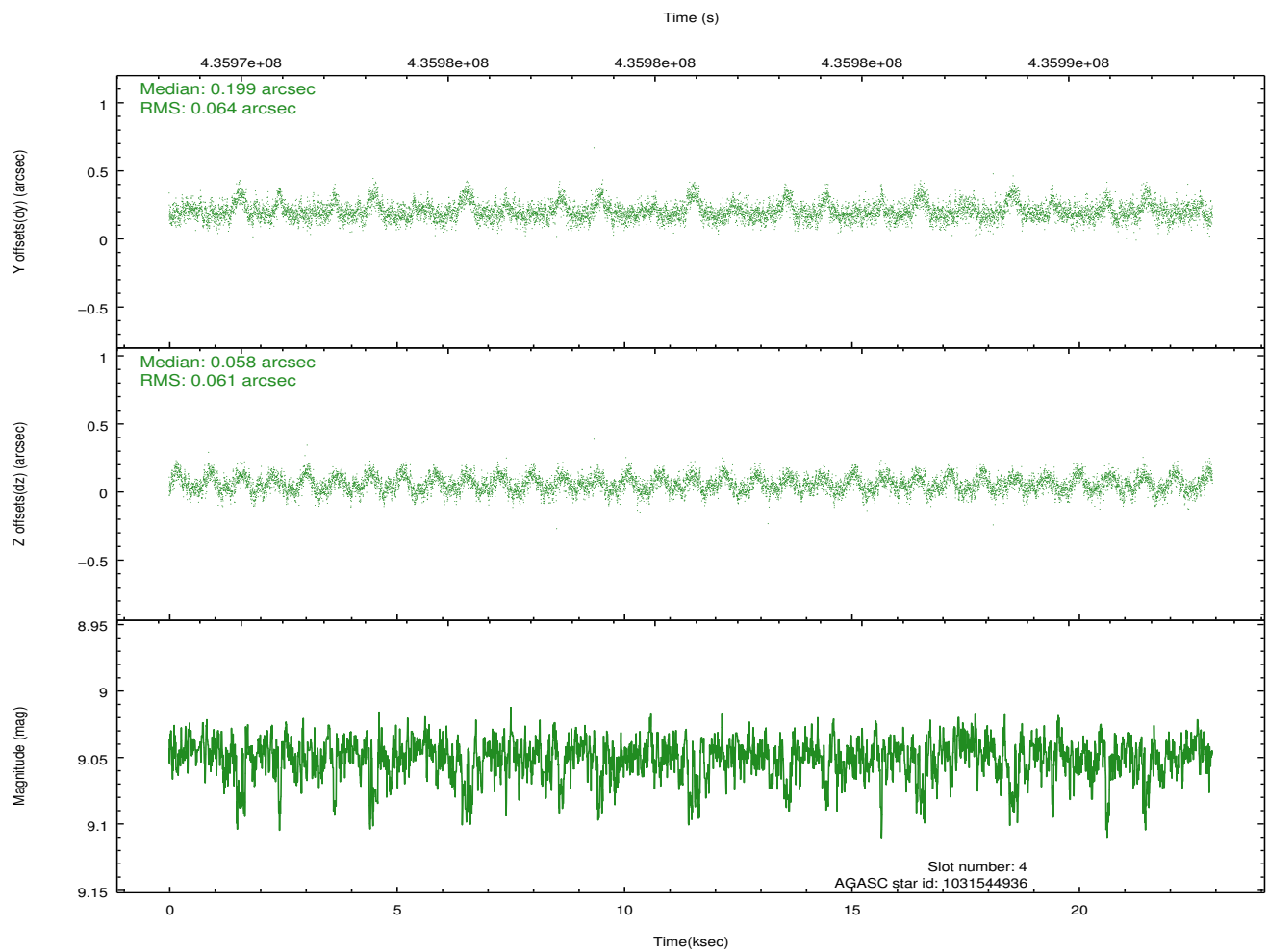
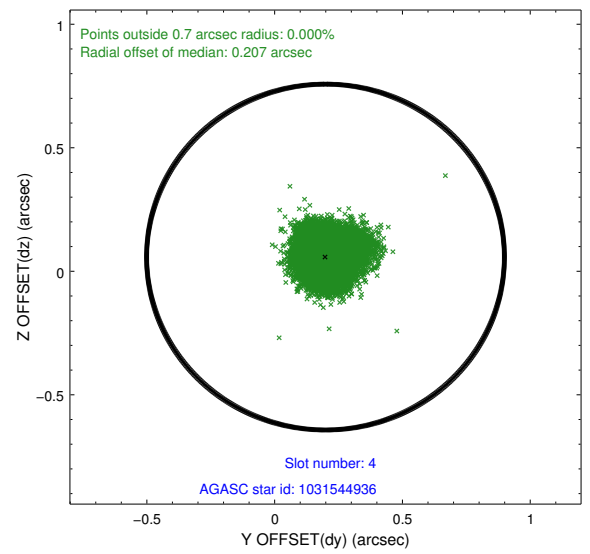
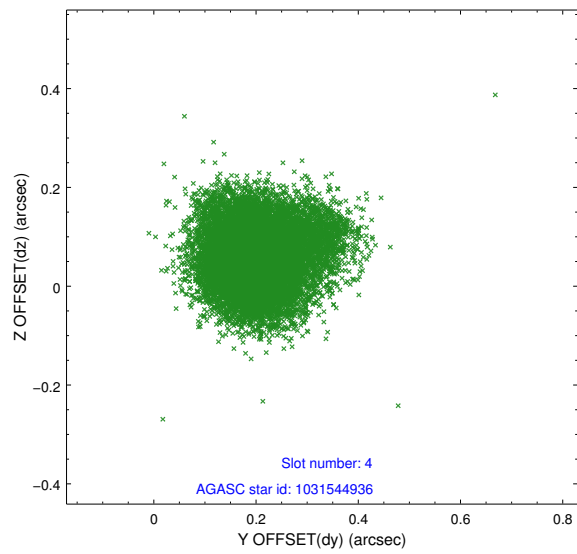
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.92	5595	0.056	-0.019	0.011	0.021	0.000000	0.000000	932.28	-1731.41
1	FID	ACIS-S-5	6.96	5595	-0.122	0.037	0.013	0.021	0.000000	0.000000	-1816.82	166.05
2	FID	ACIS-S-6	7.06	5595	0.045	-0.008	0.016	0.024	0.000000	0.000000	397.66	810.13
3	GUIDE	1031542824	9.16	11182	0.200	-0.156	0.094	0.157	258.377451	-37.634213	1982.25	246.76
4	GUIDE	1031544936	9.05	11179	0.199	0.058	0.094	0.153	258.550668	-37.628655	1868.64	727.98
5	GUIDE	966527864	8.13	11189	-0.277	0.061	0.083	0.131	259.198901	-37.409371	747.55	2399.37
6	GUIDE	966395208	9.23	11183	-0.060	-0.090	0.144	0.218	257.476081	-37.424384	1746.42	-2424.63
7	GUIDE	966532728	9.37	11175	-0.069	0.129	0.087	0.141	259.117845	-36.875724	-1098.18	1818.02

2.4 Star Slots

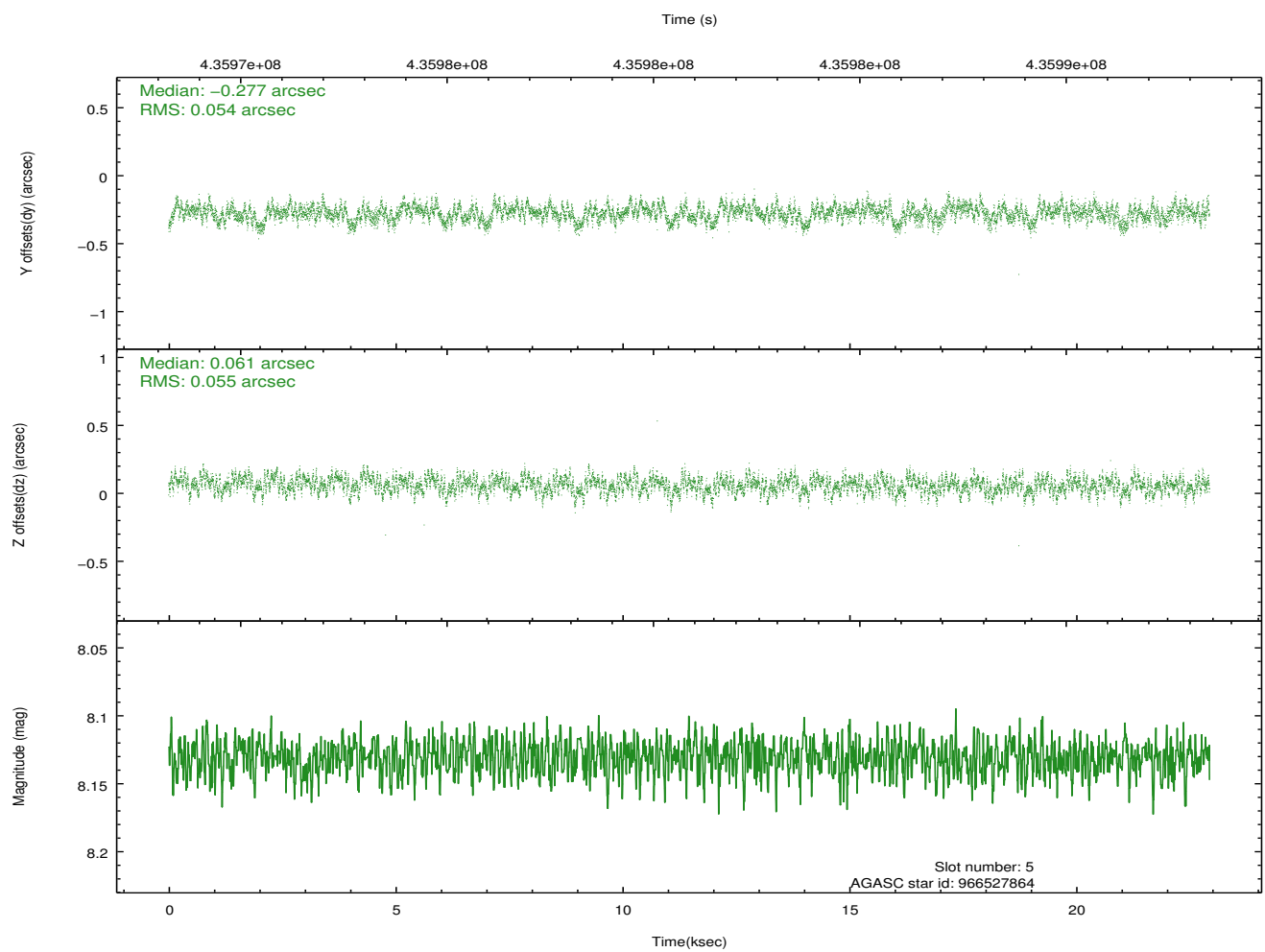
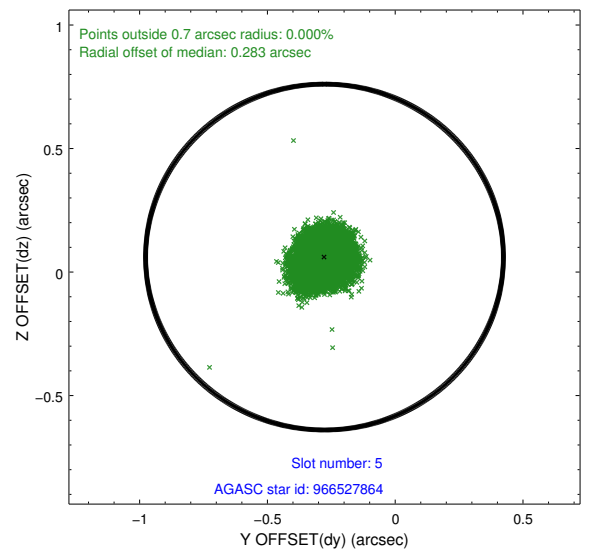
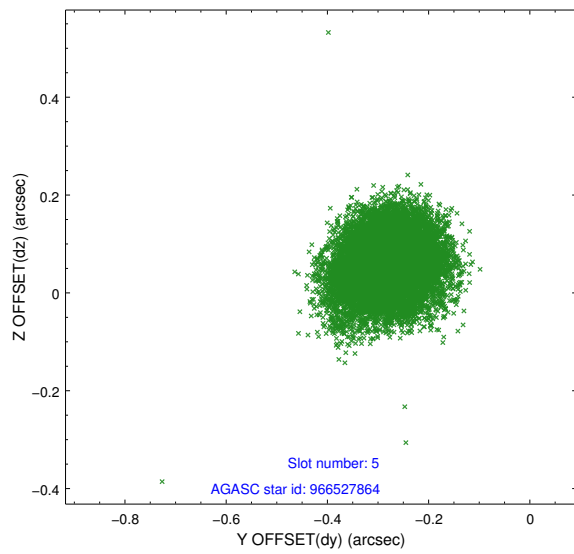
2.4.1 Slot 3



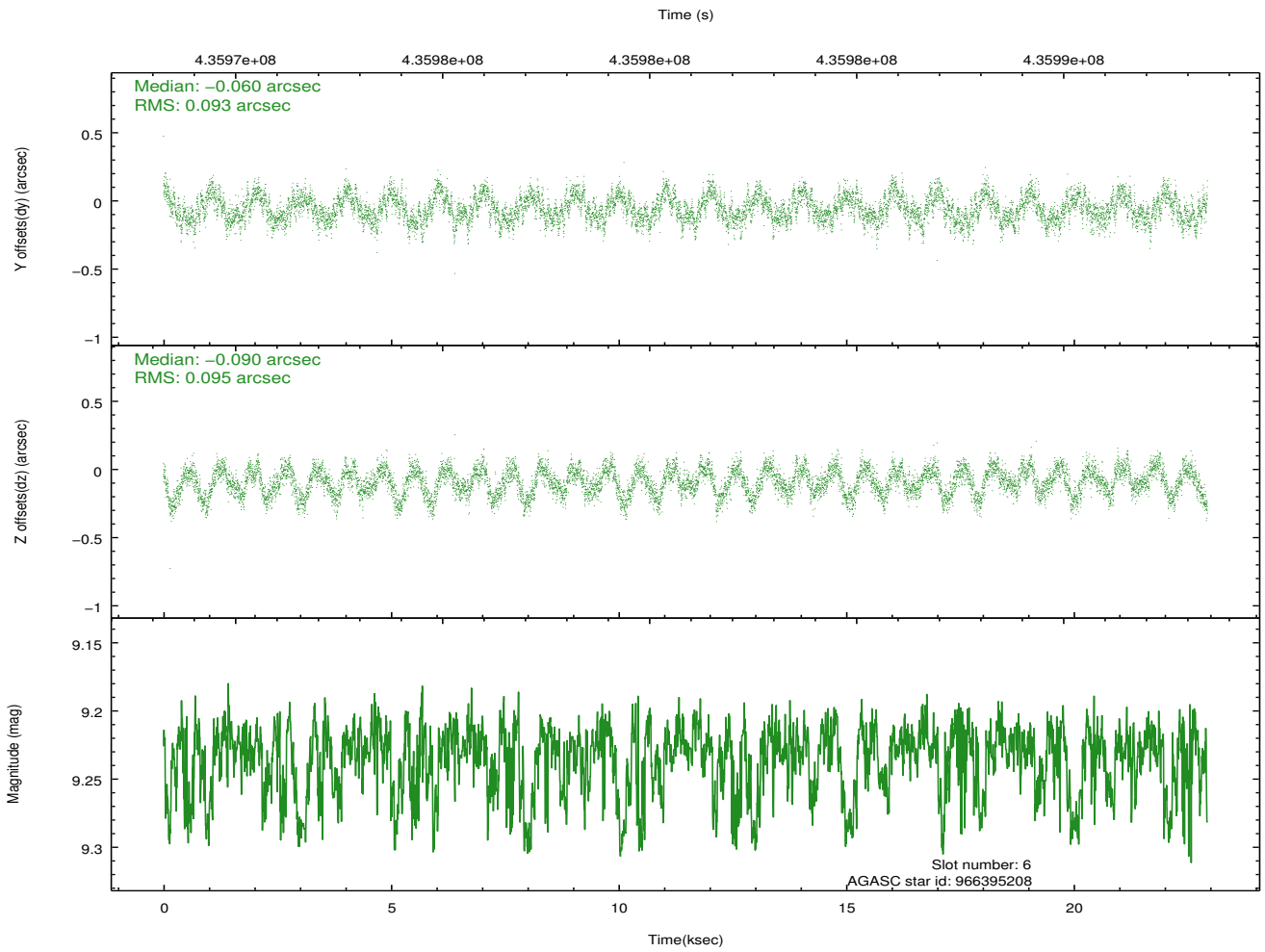
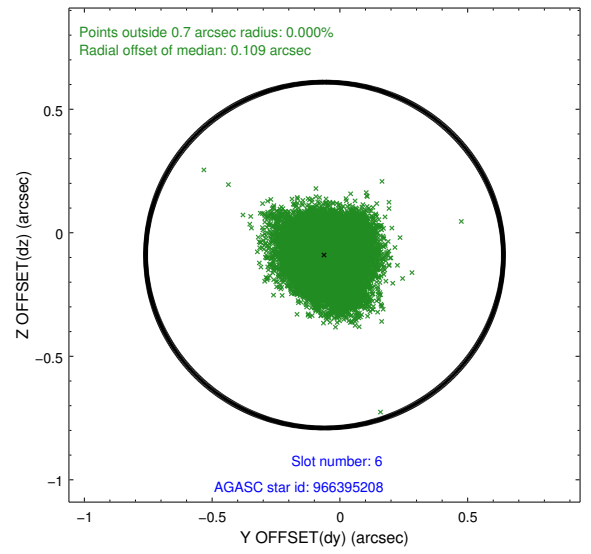
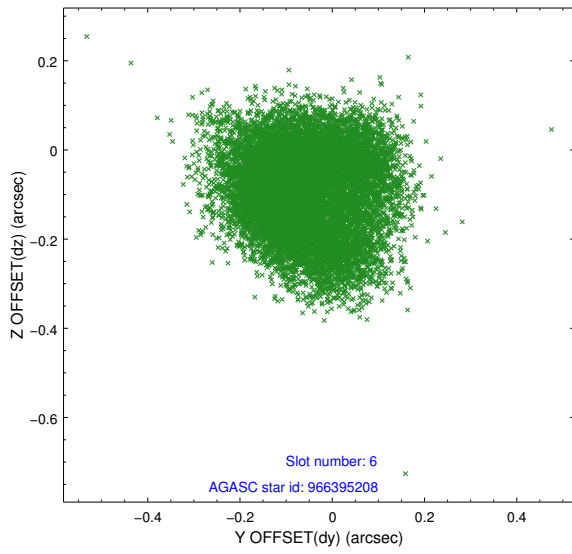
2.4.2 Slot 4



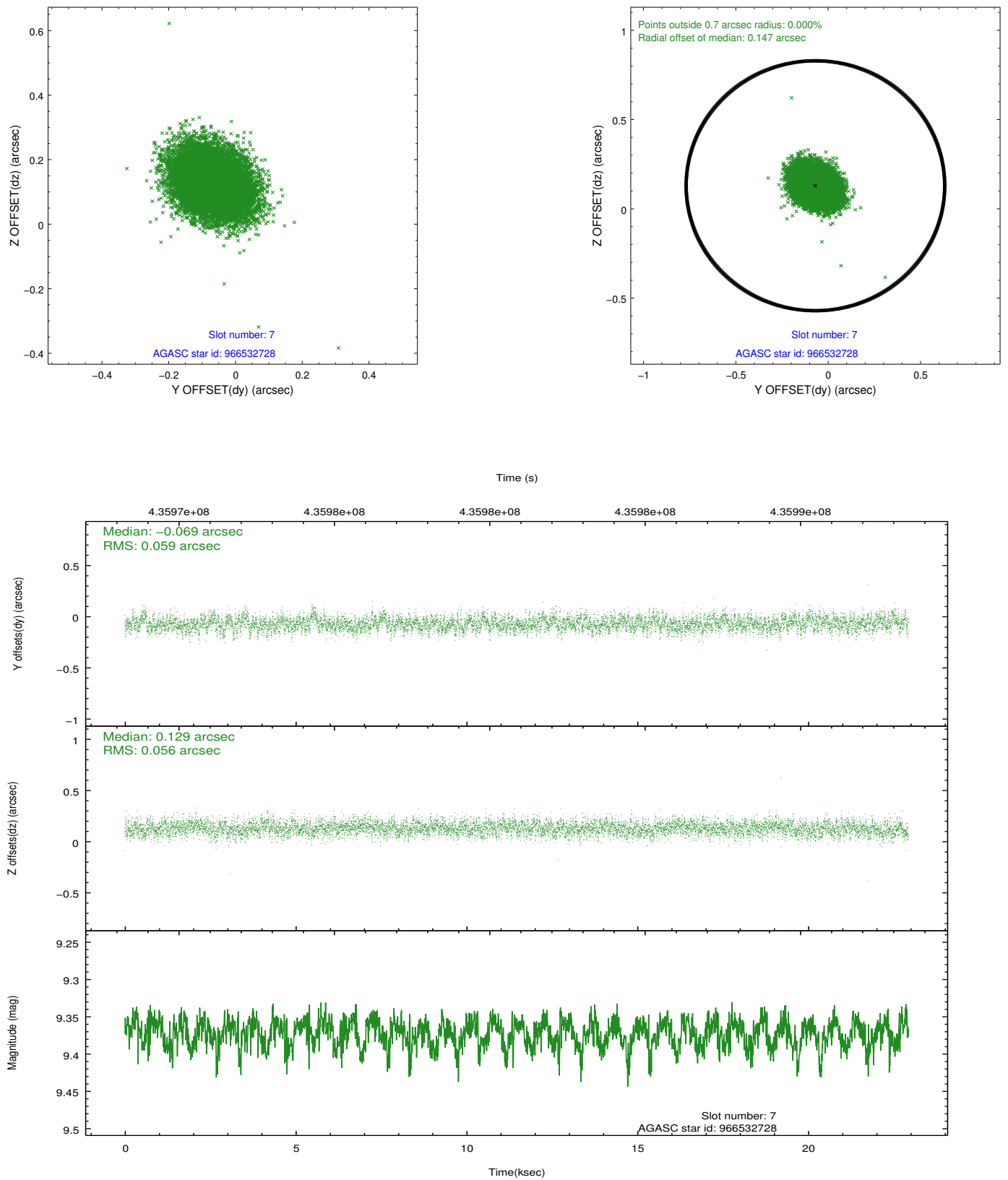
2.4.3 Slot 5



2.4.4 Slot 6

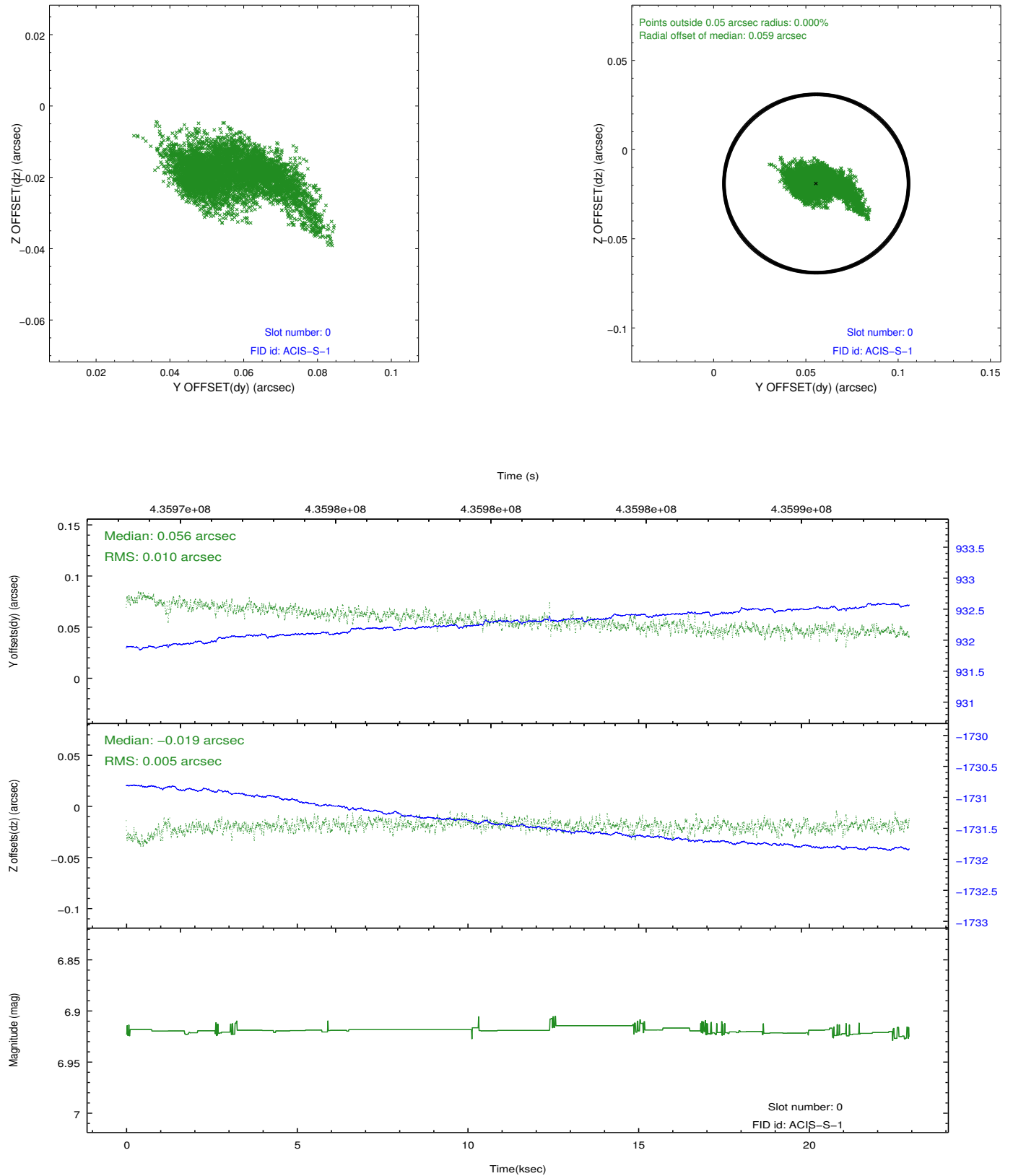


2.4.5 Slot 7

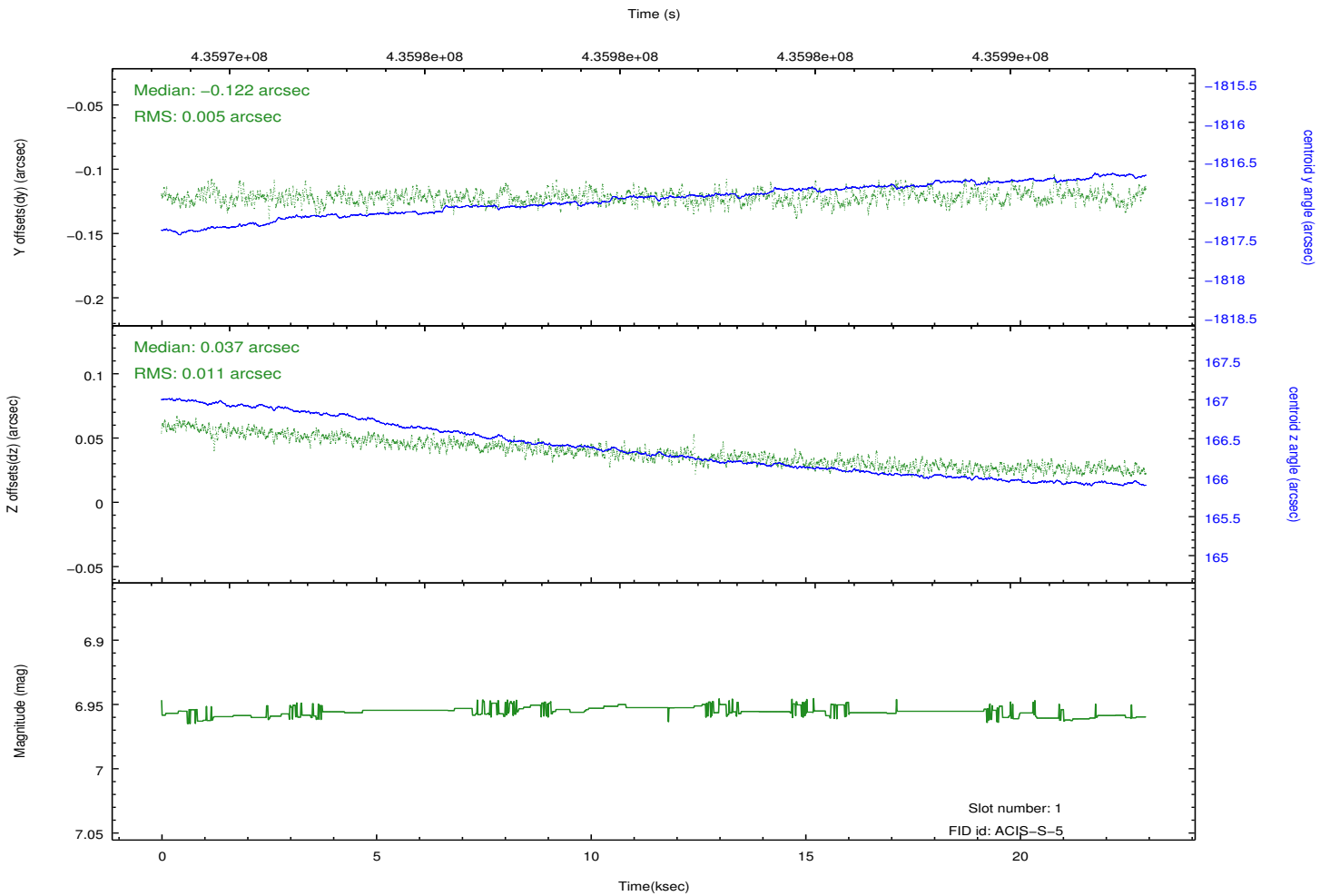
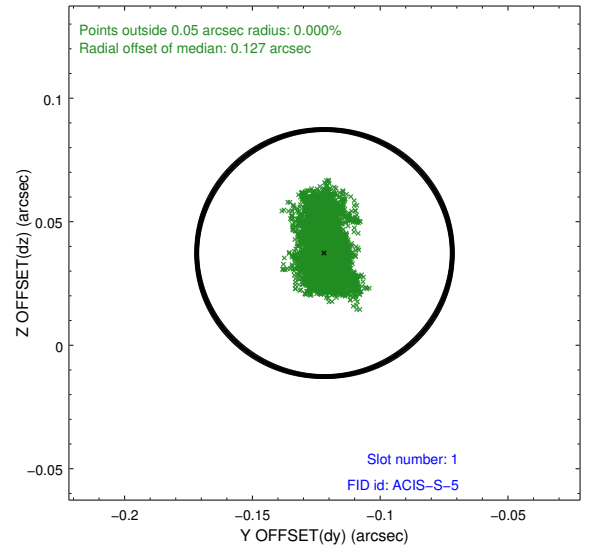
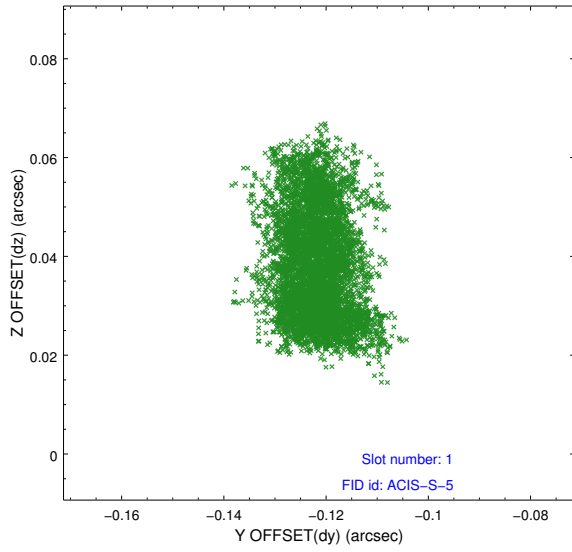


2.5 FID Slots

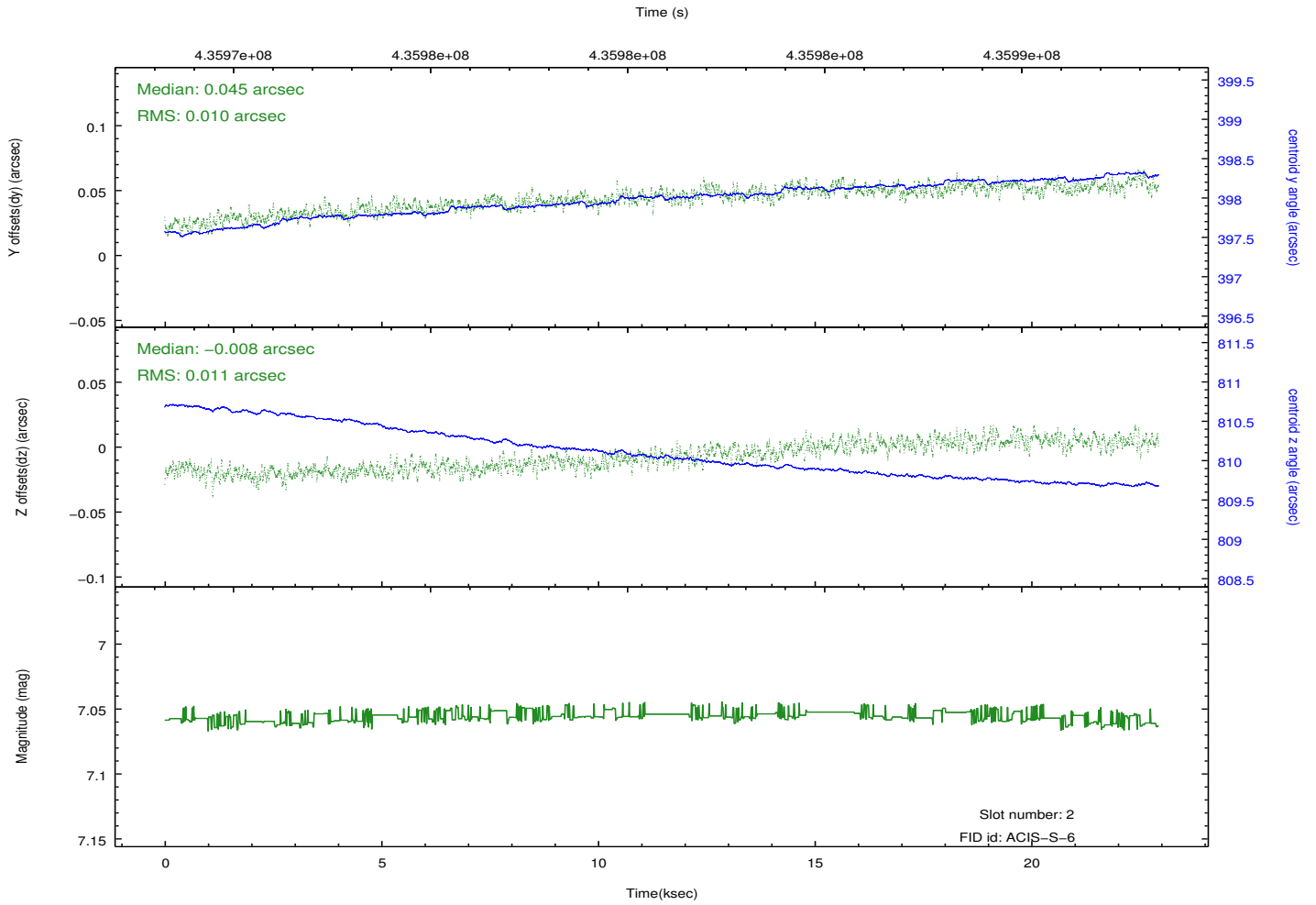
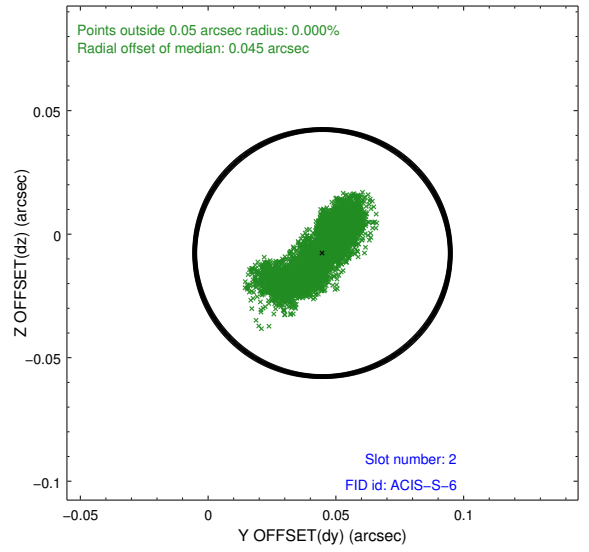
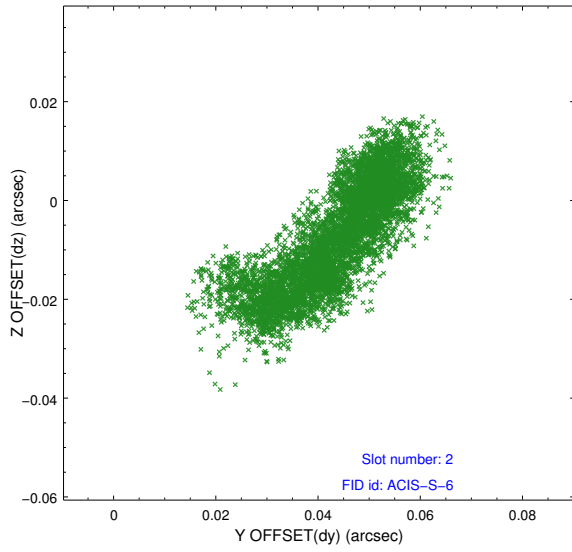
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.03.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.828799915016

A.2 Comments

This obsid was active onboard when a Command Telemetry Unit (CTU) anomaly occurred. Data taken prior to the anomaly are valid and appropriate for analysis. This obsid was processed in a special way to remove any data associated with spacecraft or instrument platform movement. The dataset is of sufficient quality for detailed analysis. Charge time of 22.829 ksec reflects the early termination of this observation, which was planned for 30 ksec.