

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12932 - L2 Version 2
Chandra X-Ray Center

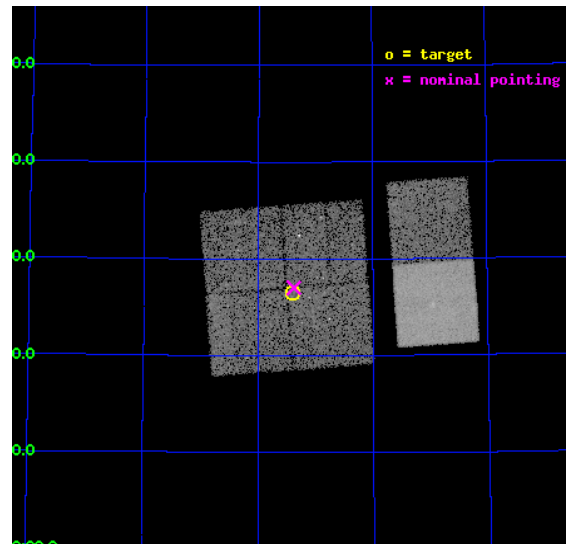
L2 Processing Date : Feb 6 2012

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1 Front

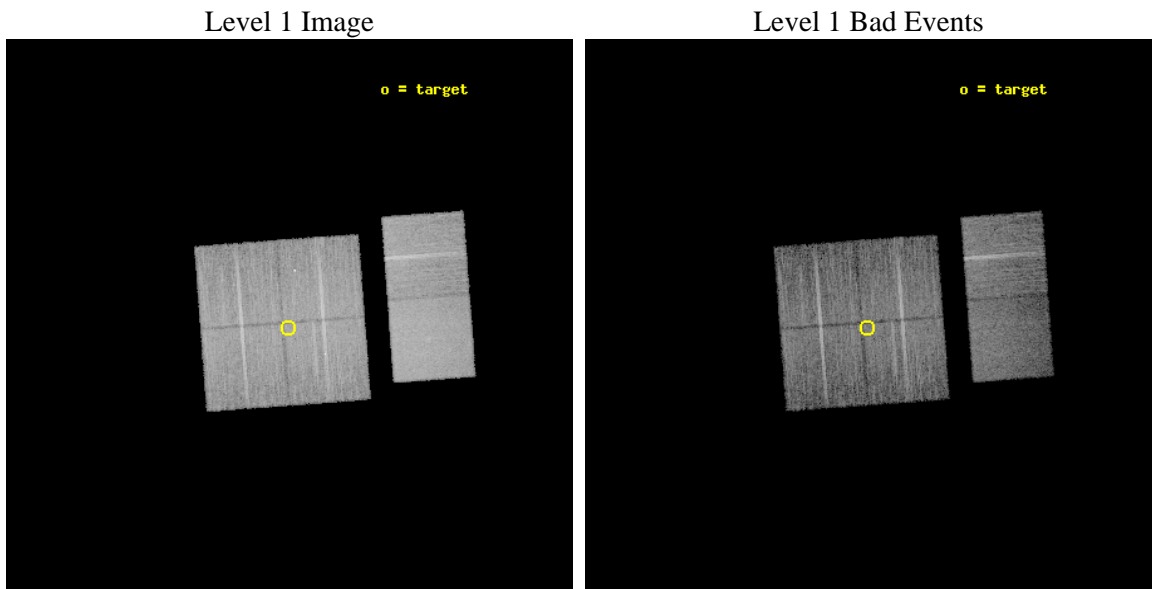
seq_num	900964	Sequence number
obs_id	12932	Observation id
title	Filling the 15 micron Gap: Search for Compton-thick Accretion with Chandra and AKARI in the NEP Deep Field	Proposal title
observer	Dr. Mirko Krumpe	Principal investigator
object	AKARI-NEP-Deep Field	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.85	Observer's specified target RA [deg]
dec_targ	66.4425	Observer's specified target Dec [deg]
ra_nom	268.84550514775	Nominal RA [deg]
dec_nom	66.450366993038	Nominal Dec [deg]
roll_nom	85.712857375284	Nominal Roll [deg]
revision	2	Processing version of data
ontime	14056.768500149	Sum of GTIs [s]
livetime	13878.773233431	Livetime [s]
ontime0	14053.404409826	Sum of GTIs [s]
ontime1	14053.445449769	Sum of GTIs [s]
ontime2	14053.486489773	Sum of GTIs [s]
ontime3	14056.768500149	Sum of GTIs [s]
ontime6	14053.609589934	Sum of GTIs [s]
ontime7	14056.809540153	Sum of GTIs [s]
l2events	97880	Number of level 2 events



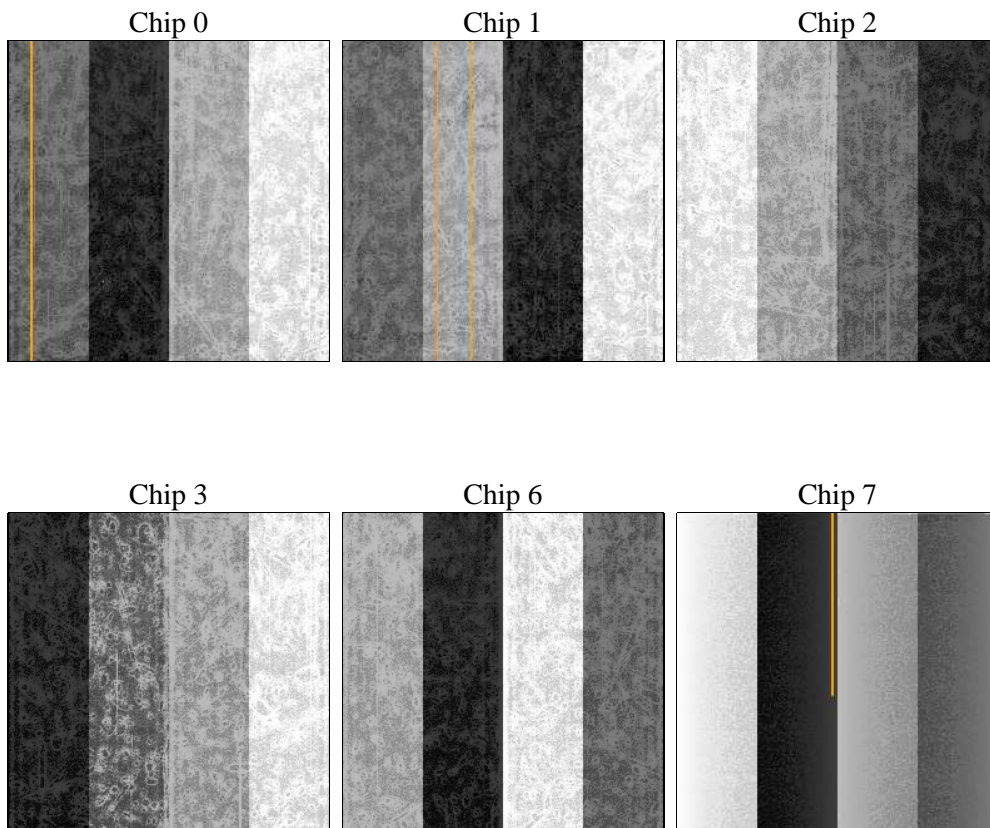
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	14000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	14056.768500149	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	14053.404409826	Sum of GTIs [s]
date	2012-02-06T08:13:27	Date and time of file creation	ontime1	14053.445449769	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	14053.486489773	Sum of GTIs [s]
			ontime3	14056.768500149	Sum of GTIs [s]
			ontime6	14053.609589934	Sum of GTIs [s]
			ontime7	14056.809540153	Sum of GTIs [s]
			l1events	575861	Number of level 1 events

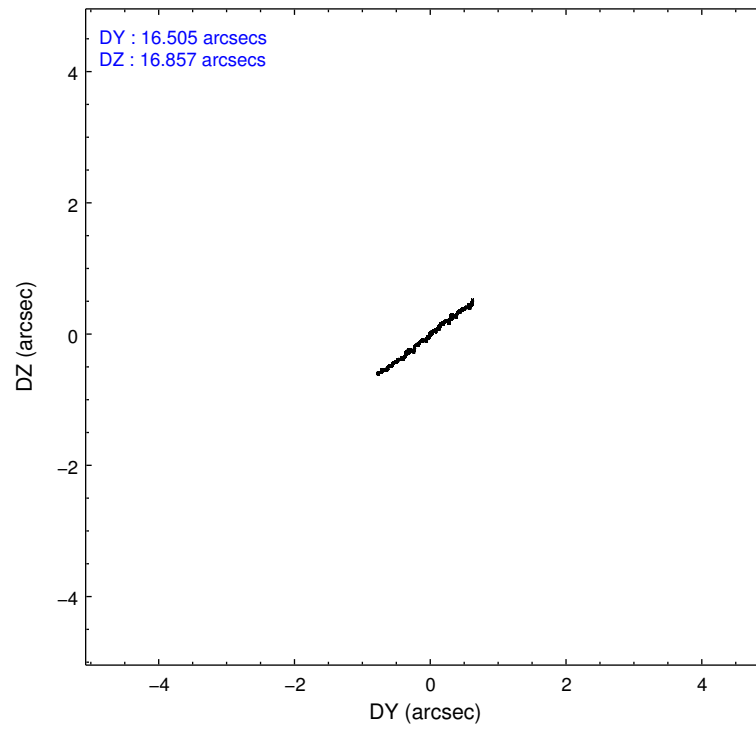
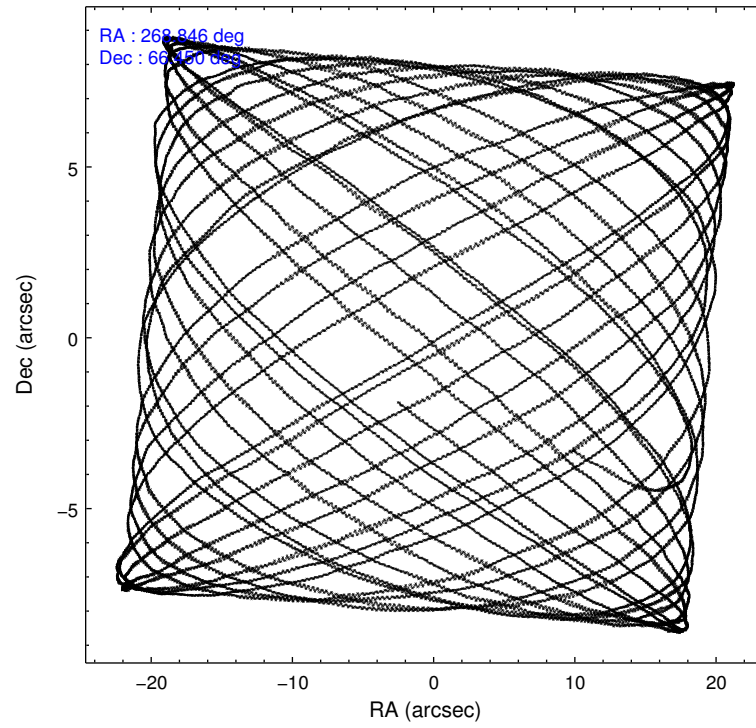
2.1.4 Events

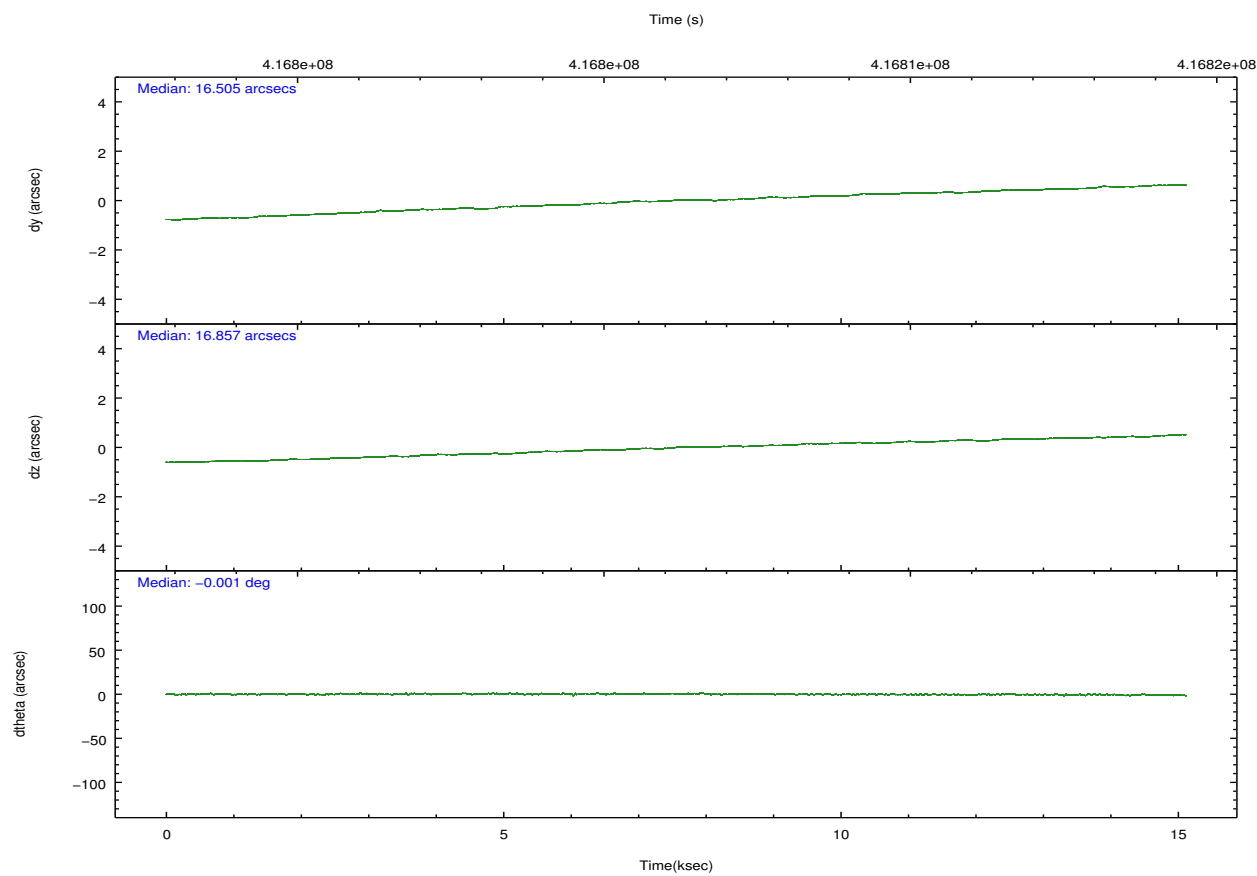
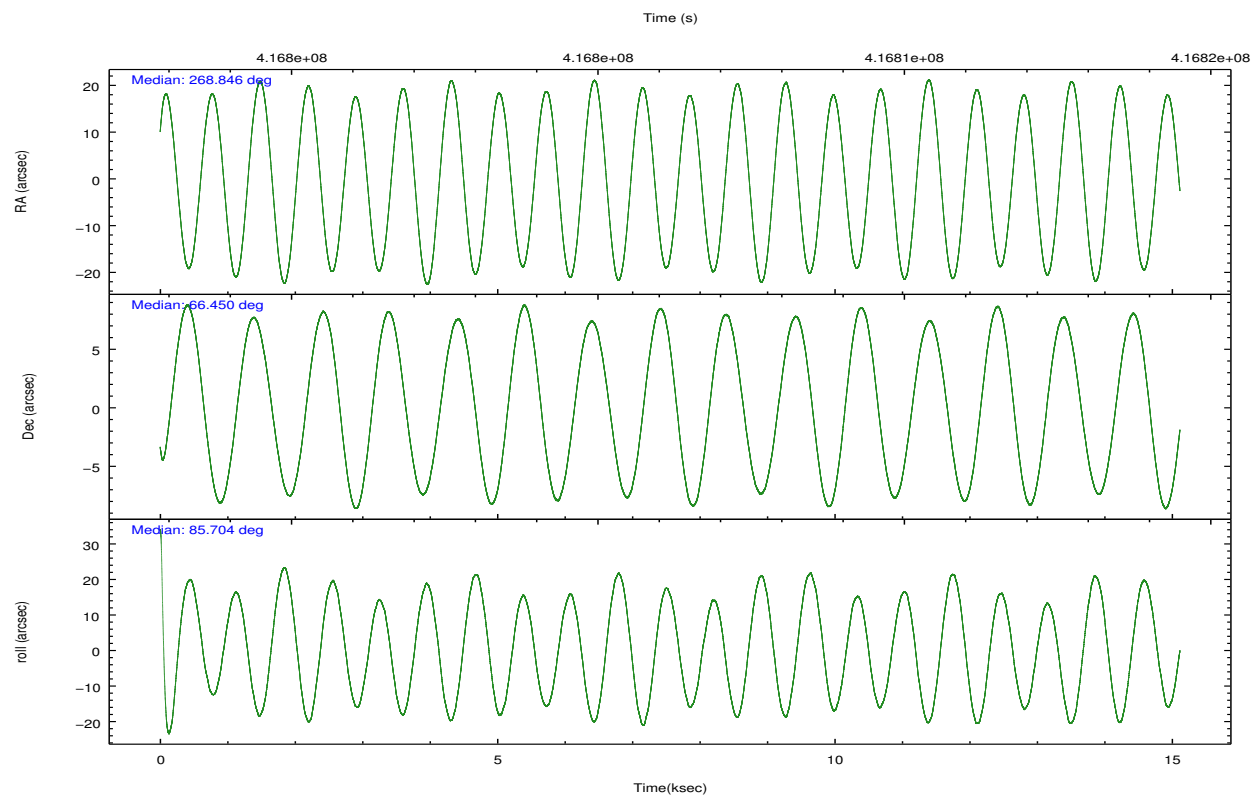
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	87100	86822	94446	93546	95277	118670	grade 0 events	3736	4223	4444	3992	3762	4967
rejected events	76534	74987	83239	83117	84382	65480		4%	4%	4%	4%	3%	4%
rejected %	87%	86%	88%	88%	88%	55%	grade 1 events	44	47	64	61	47	129
								0%	0%	0%	0%	0%	0%
							grade 2 events	2582	2826	2602	2181	2559	10850
								2%	3%	2%	2%	2%	9%
							grade 3 events	1082	1207	1049	1117	1125	4619
								1%	1%	1%	1%	1%	3%
							grade 4 events	1069	1214	1103	1079	1092	4660
								1%	1%	1%	1%	1%	3%
							grade 5 events	3974	4265	3743	4309	4551	12421
								4%	4%	3%	4%	4%	10%
							grade 6 events	2106	2371	2010	2064	2360	28110
								2%	2%	2%	2%	2%	23%
							grade 7 events	72507	70669	79431	78743	79781	52914
								83%	81%	84%	84%	83%	44%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	268.875528	268.8455051477519	CCD I2 on	Y	Y
[deg] Pointing Dec	66.425629	66.45036699303813	CCD I3 on	Y	Y
[deg] Pointing Roll	85.476607	85.71285737528399	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	416799735.184000	416798261.65007	CCD S5 on	N	N
Observation start date	2011-03-18T01:41:09	2011-03-18T01:17:41	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	416813735.184000	416814429.48841	On-chip summing requested	N	N
Observation end date	2011-03-18T05:34:29	2011-03-18T05:47:09	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



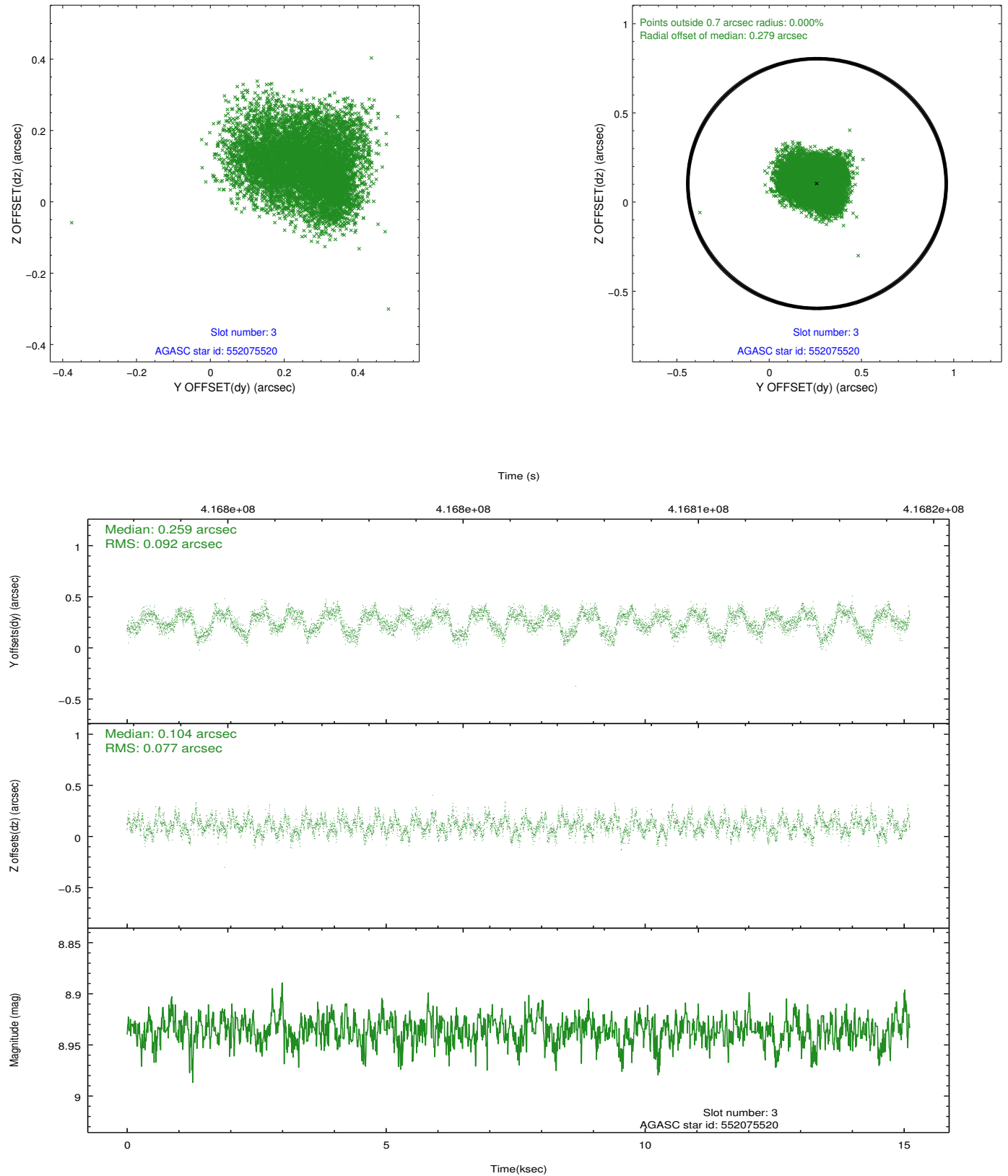


Slot Statistics

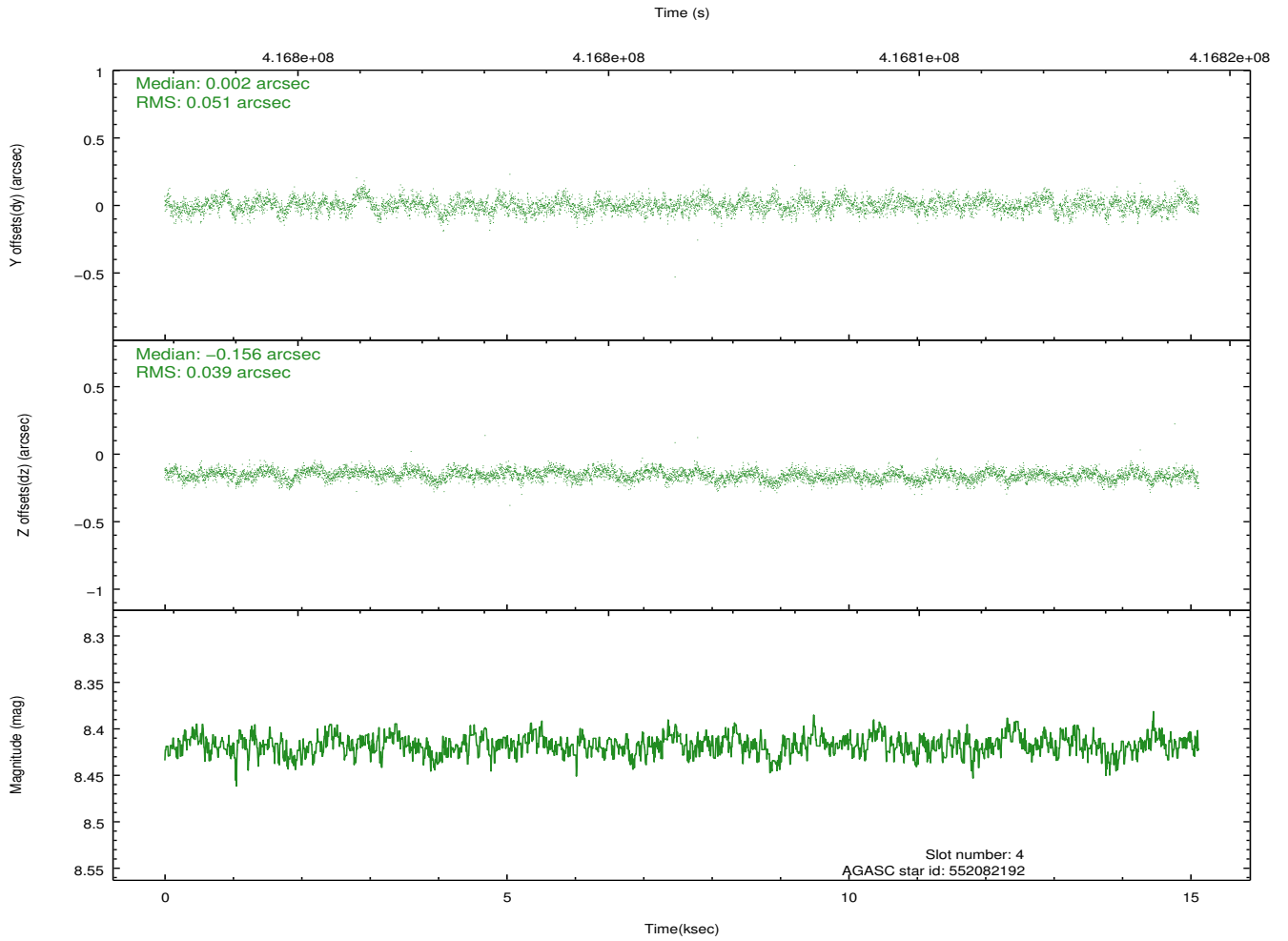
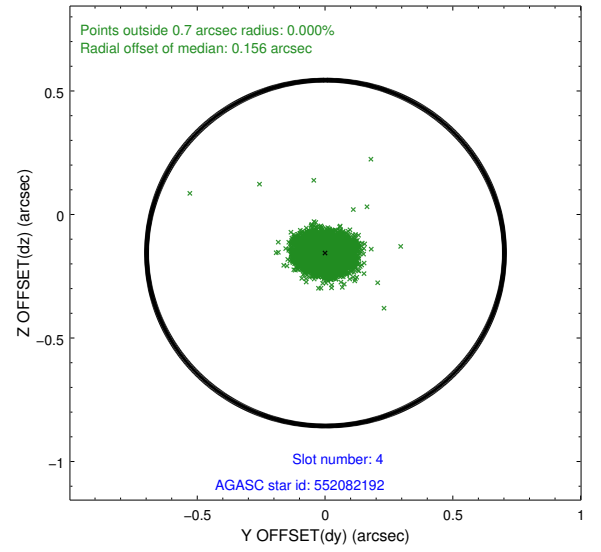
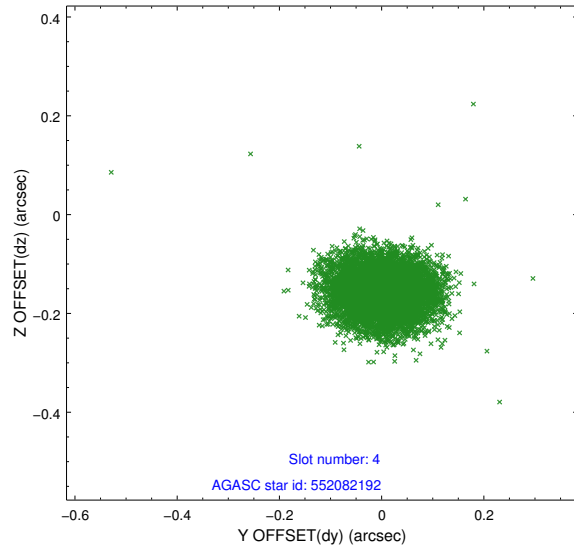
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.03	3687	0.067	-0.042	0.013	0.019	0.000000	0.000000	923.01	-840.51
1	FID	ACIS-I-5	7.03	3685	-0.227	0.063	0.010	0.019	0.000000	0.000000	-1825.21	1056.96
2	FID	ACIS-I-6	7.04	3687	0.069	0.049	0.014	0.021	0.000000	0.000000	388.25	1701.77
3	GUIDE	552075520	8.94	7367	0.259	0.104	0.131	0.197	269.430358	66.310622	-345.56	-831.89
4	GUIDE	552082192	8.42	7374	0.002	-0.156	0.067	0.109	267.876768	65.802301	-2341.69	1293.06
5	GUIDE	552084280	7.64	7373	-0.065	-0.196	0.066	0.105	268.233478	66.419076	-92.15	920.76
6	GUIDE	552086952	8.93	7367	-0.205	0.178	0.093	0.145	269.244808	65.818715	-2133.59	-714.57
7	GUIDE	552206400	8.62	7373	0.017	0.076	0.093	0.141	270.193803	65.897301	-1722.84	-2080.10

2.4 Star Slots

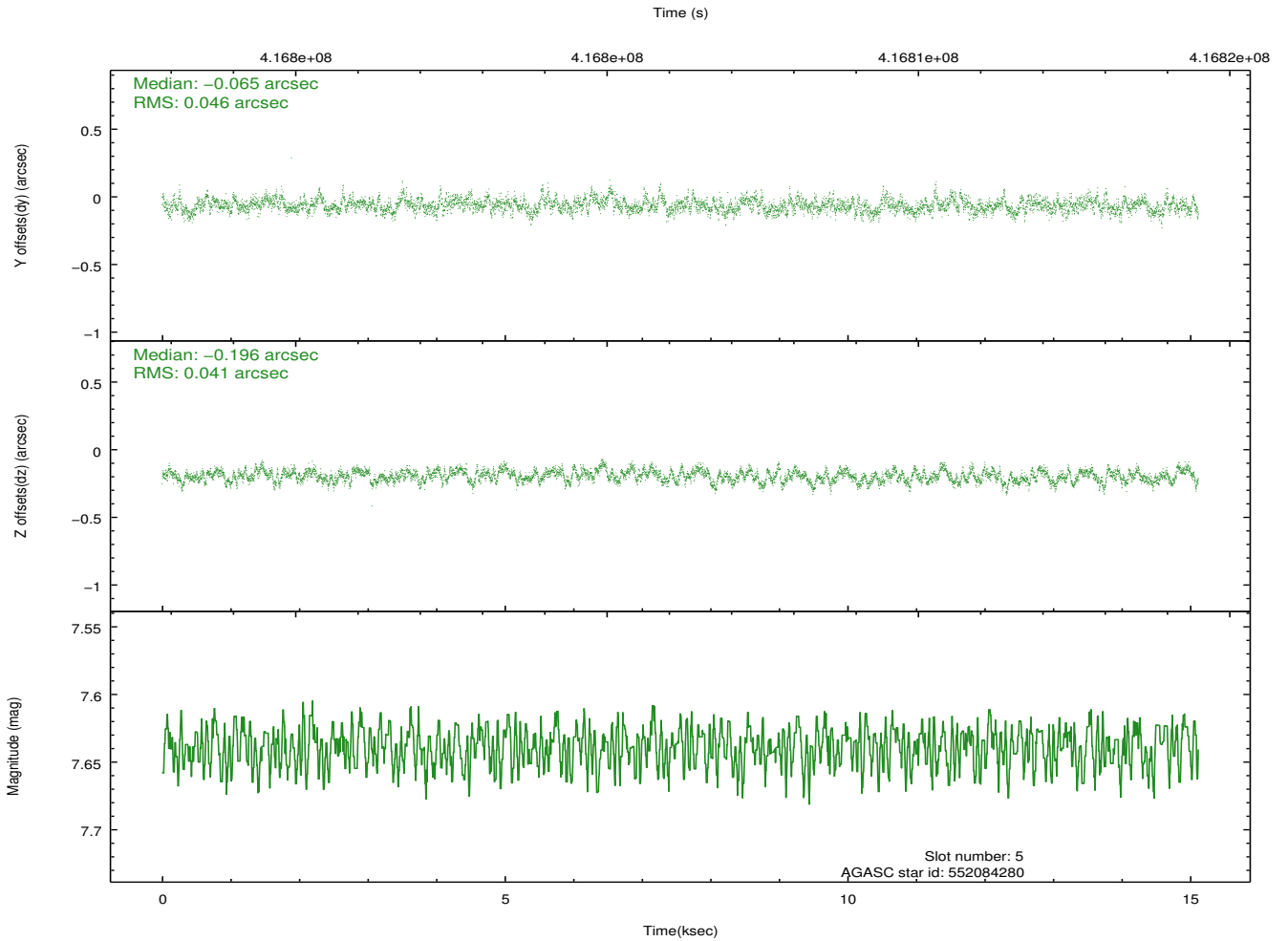
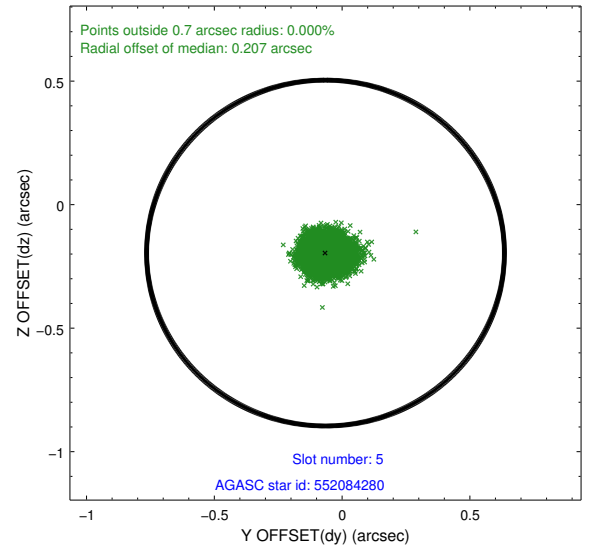
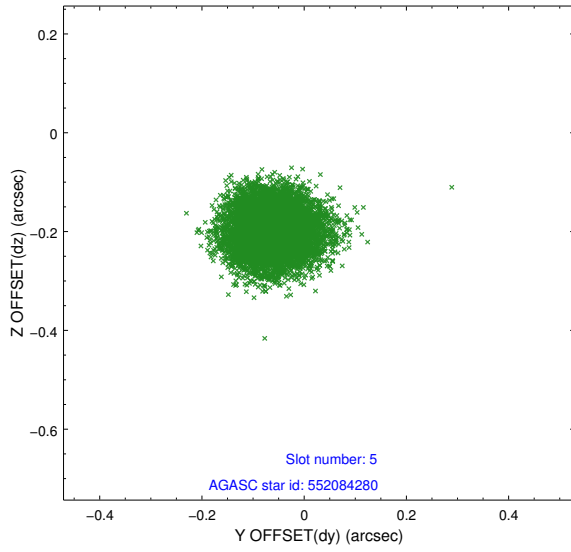
2.4.1 Slot 3



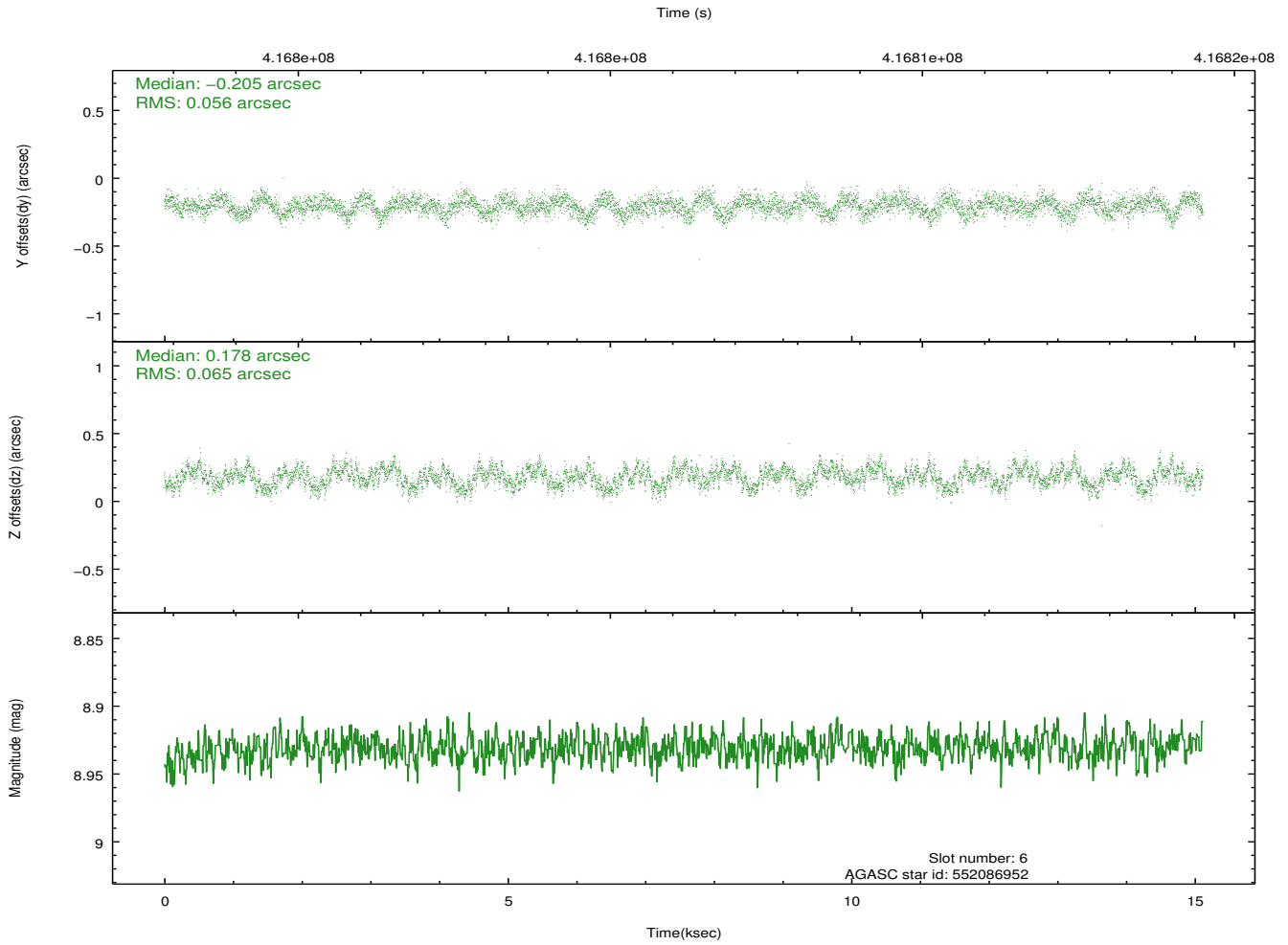
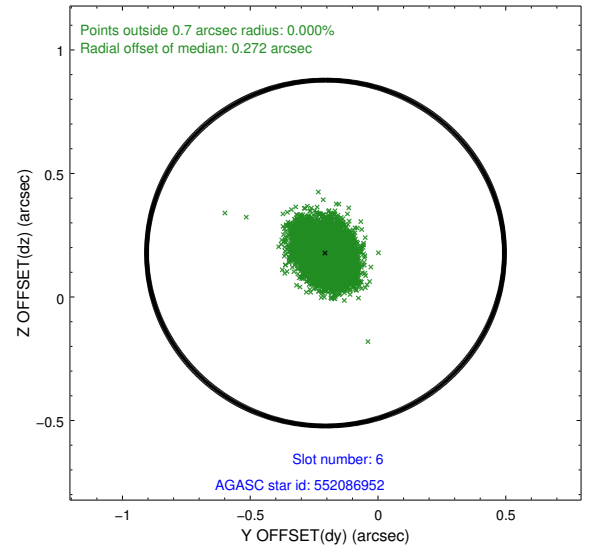
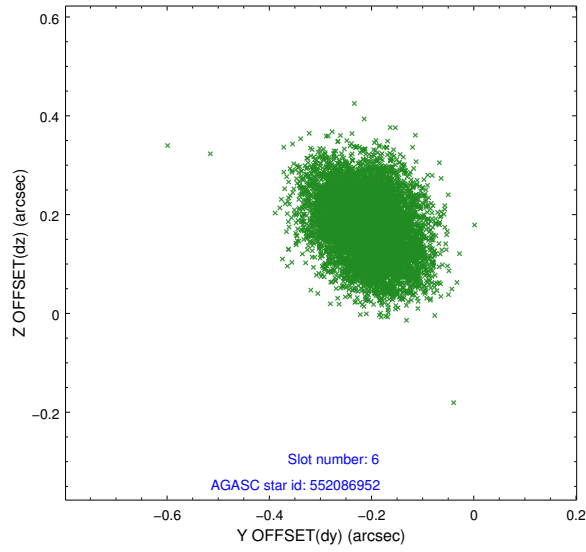
2.4.2 Slot 4



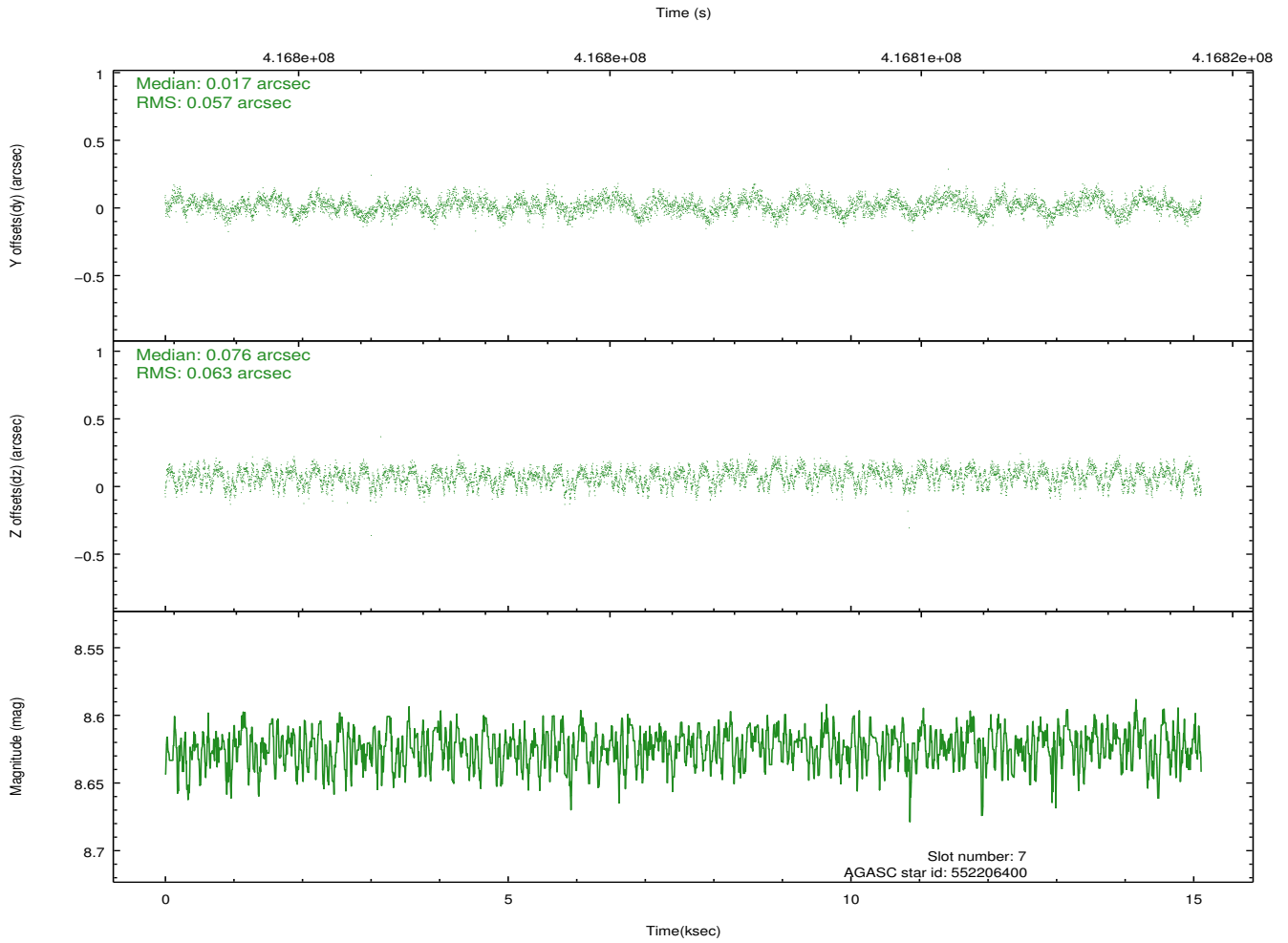
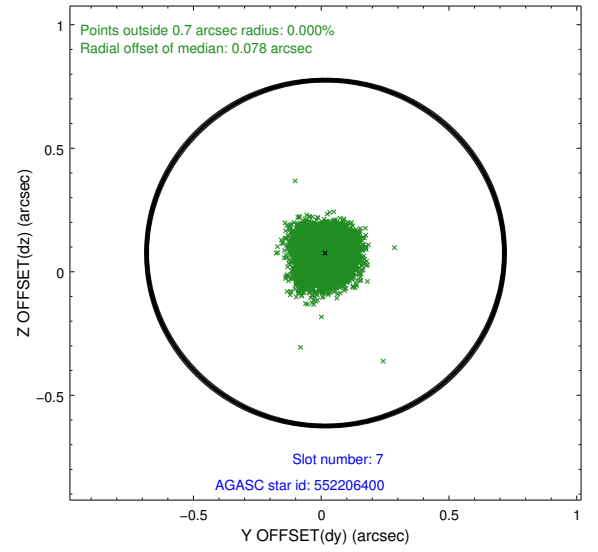
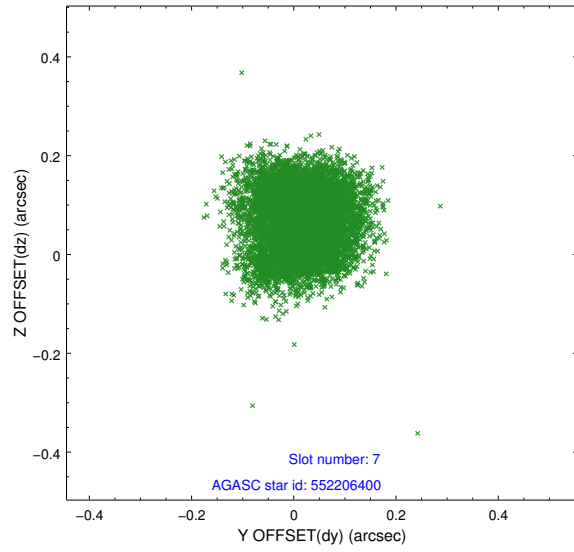
2.4.3 Slot 5



2.4.4 Slot 6

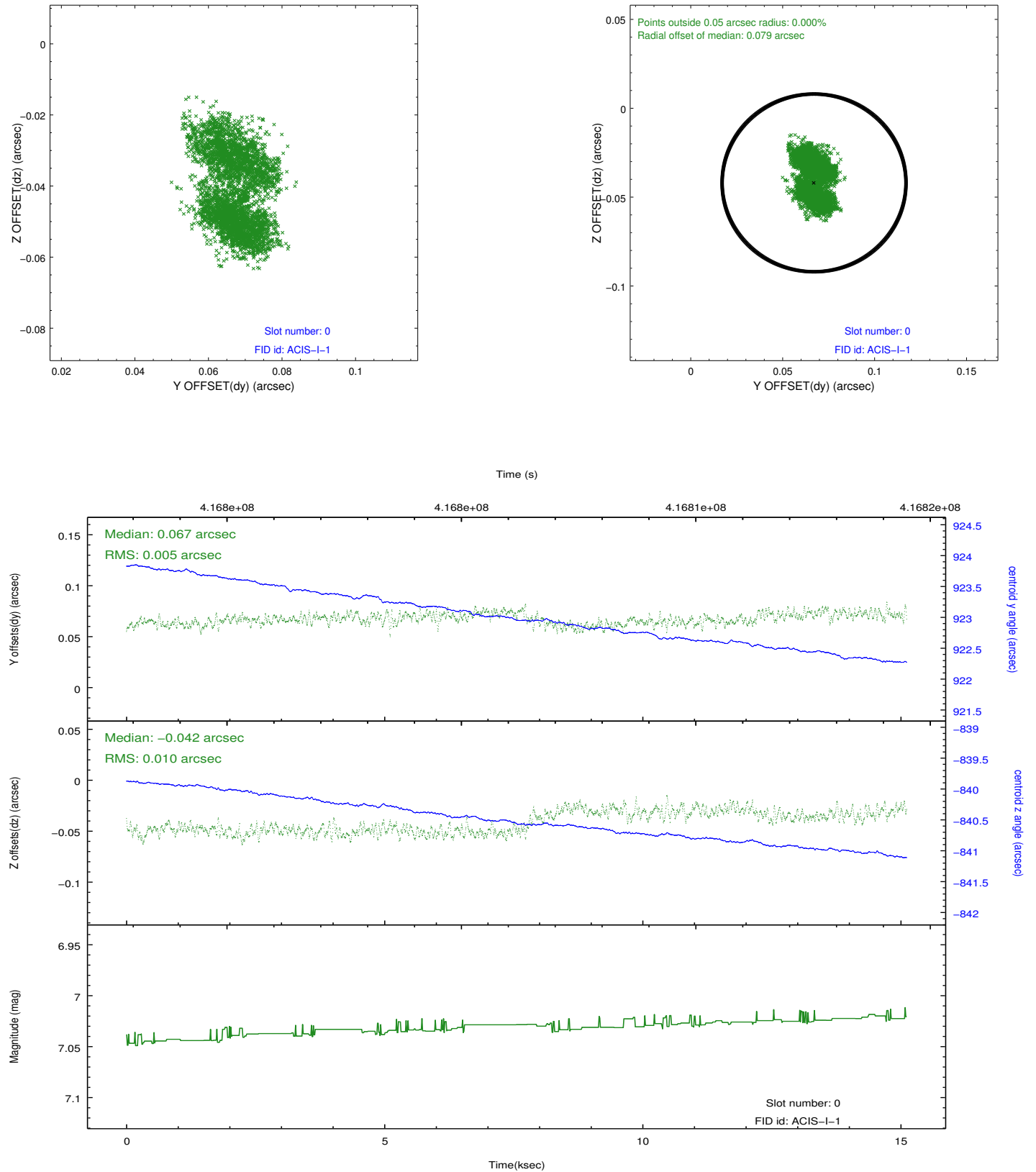


2.4.5 Slot 7

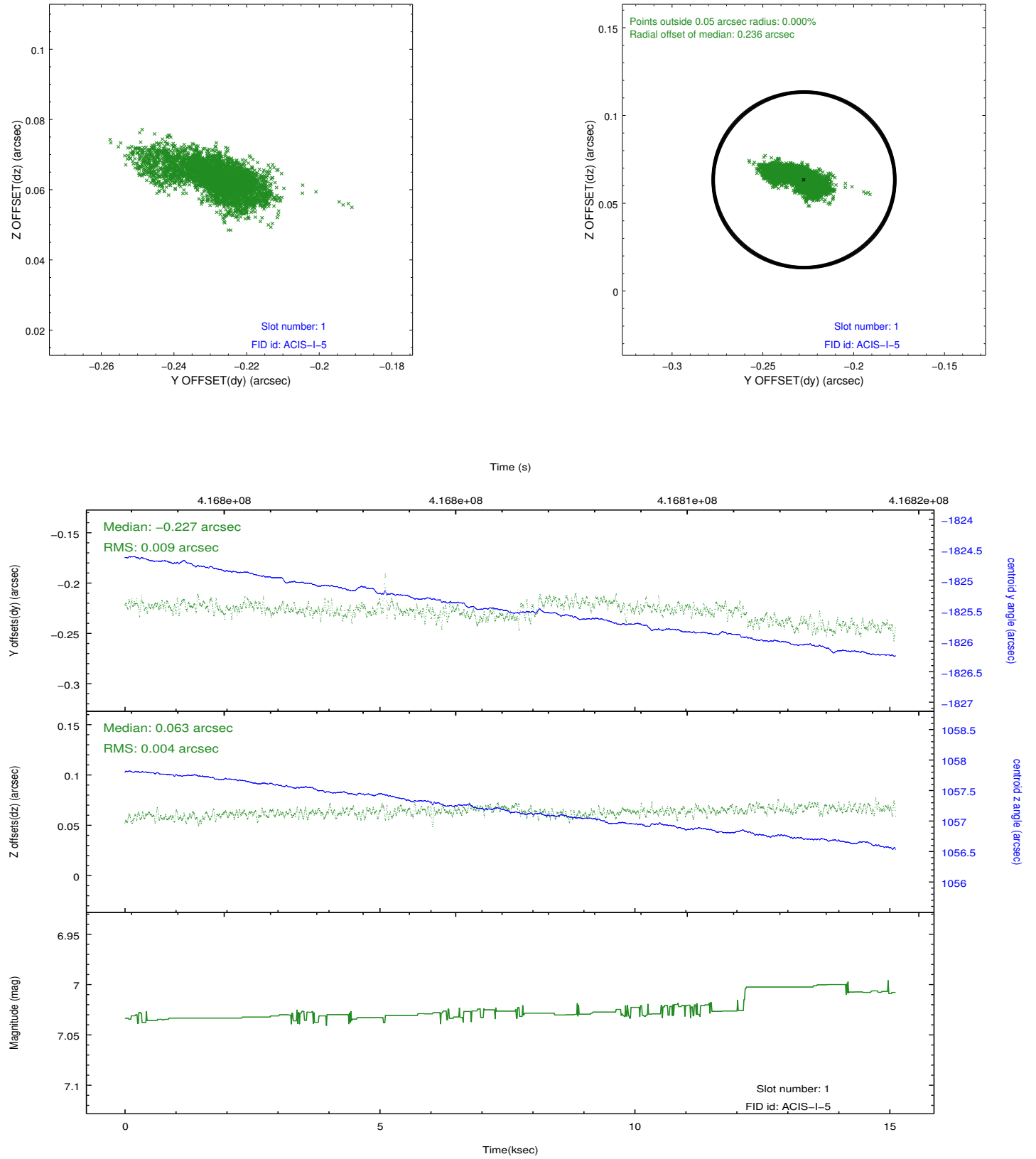


2.5 FID Slots

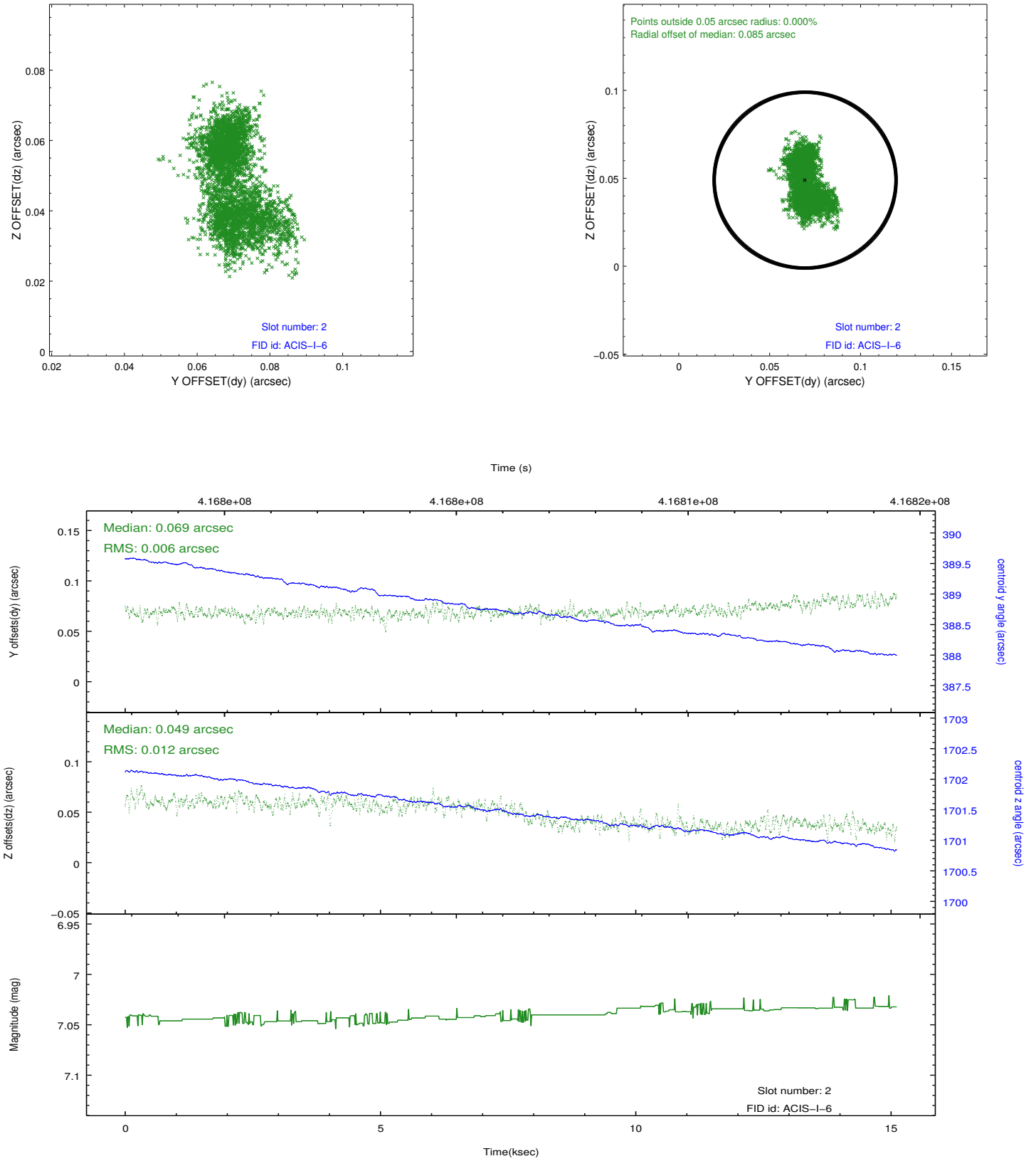
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.02.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	14.056768501639

A.2 Comments

The data for this observation have been processed using the 'EDSER' sub-pixel event-repositioning algorithm of Li et al. (2004, ApJ, 610, 1204). Small-scale features should become sharper for sources near the aim point. The improvement will be less noticeable for off-axis sources where the size of the point-spread function is comparable to or larger than the size of an ACIS pixel. To take full advantage of the improvement, images should be binned on spatial scales smaller than the size of an ACIS pixel. Note that, at present, the point-spread function has not been calibrated for data to which the EDSER algorithm has been applied. If dither was disabled for the observation, then the algorithm can introduce artificial aliasing effects on spatial scales smaller than a pixel. If you would prefer to use no sub-pixel adjustment or to apply a coordinate randomization, then use `acis_process_events` to reprocess the data with the parameter `pix_adj=NONE` or `RANDOMIZE`, respectively.