

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12926 - L2 Version 2
Chandra X-Ray Center

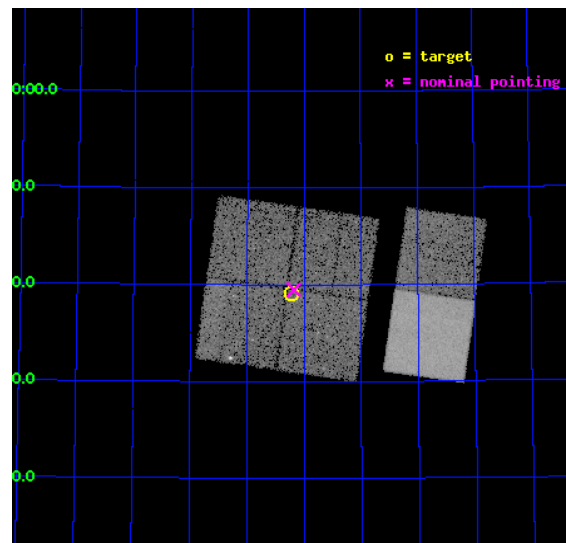
L2 Processing Date : Feb 7 2012

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1 Front

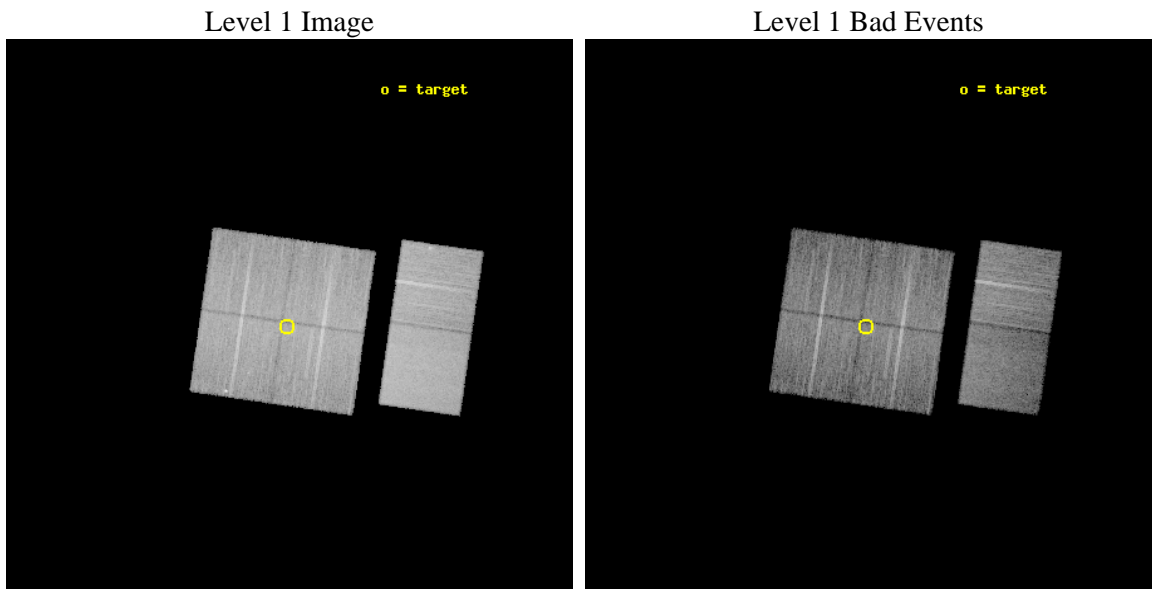
seq_num	900958	Sequence number
obs_id	12926	Observation id
title	Filling the 15 micron Gap: Search for Compton-thick Accretion with Chandra and AKARI in the NEP Deep Field	Proposal title
observer	Dr. Mirko Krumpe	Principal investigator
object	AKARI-NEP-Deep Field	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	268.55417	Observer's specified target RA [deg]
dec_targ	66.650833	Observer's specified target Dec [deg]
ra_nom	268.54541967781	Nominal RA [deg]
dec_nom	66.658132116412	Nominal Dec [deg]
roll_nom	98.21674584346	Nominal Roll [deg]
revision	2	Processing version of data
ontime	18054.399932802	Sum of GTIs [s]
livetime	17825.784249798	Livetime [s]
ontime0	18051.158942521	Sum of GTIs [s]
ontime1	18054.399932802	Sum of GTIs [s]
ontime2	18054.399932802	Sum of GTIs [s]
ontime3	18054.399932802	Sum of GTIs [s]
ontime6	18054.399932802	Sum of GTIs [s]
ontime7	18054.399932802	Sum of GTIs [s]
l2events	120952	Number of level 2 events



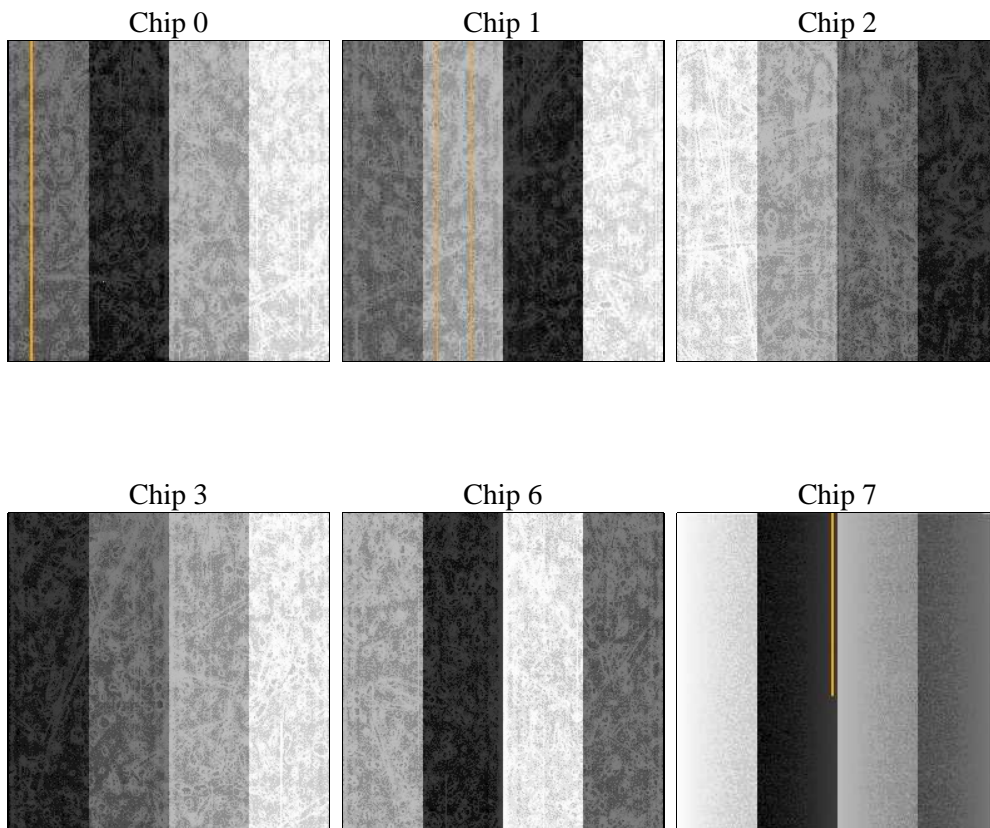
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	18054.399932802	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	18051.158942521	Sum of GTIs [s]
date	2012-02-07T13:27:20	Date and time of file creation	ontime1	18054.399932802	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	18054.399932802	Sum of GTIs [s]
			ontime3	18054.399932802	Sum of GTIs [s]
			ontime6	18054.399932802	Sum of GTIs [s]
			ontime7	18054.399932802	Sum of GTIs [s]
			l1events	729098	Number of level 1 events

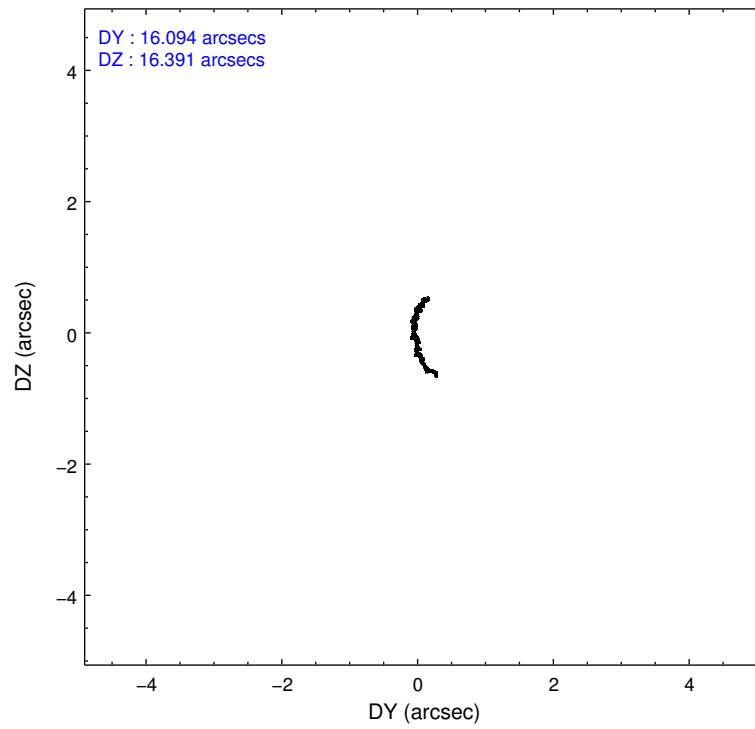
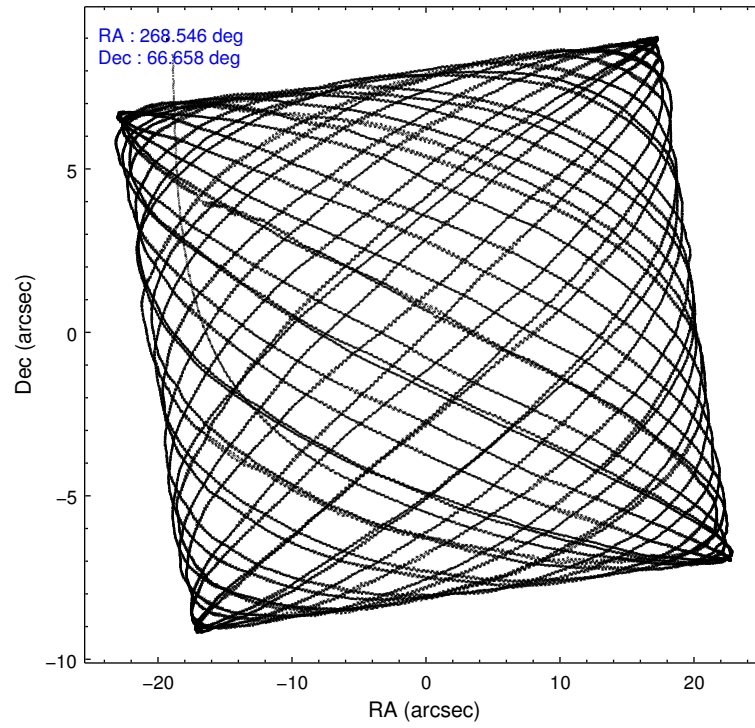
2.1.4 Events

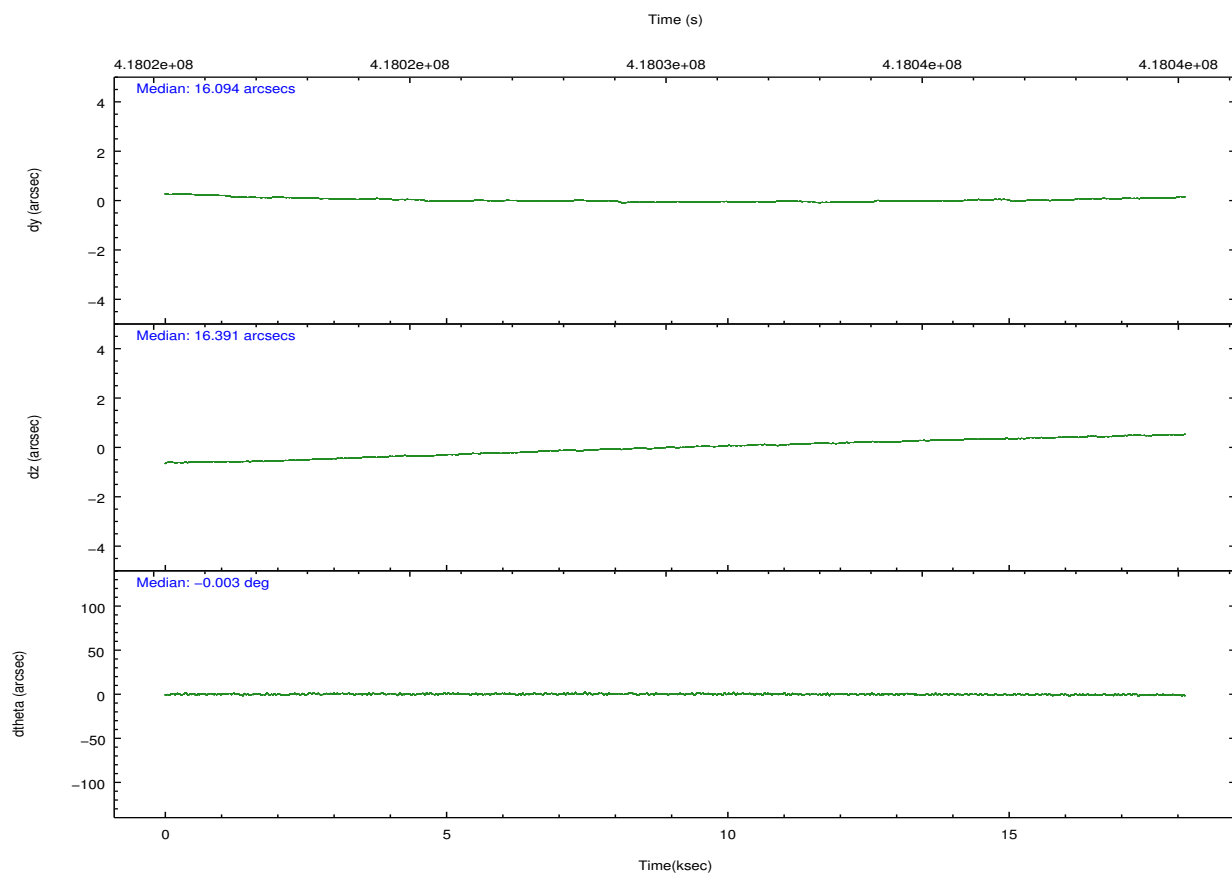
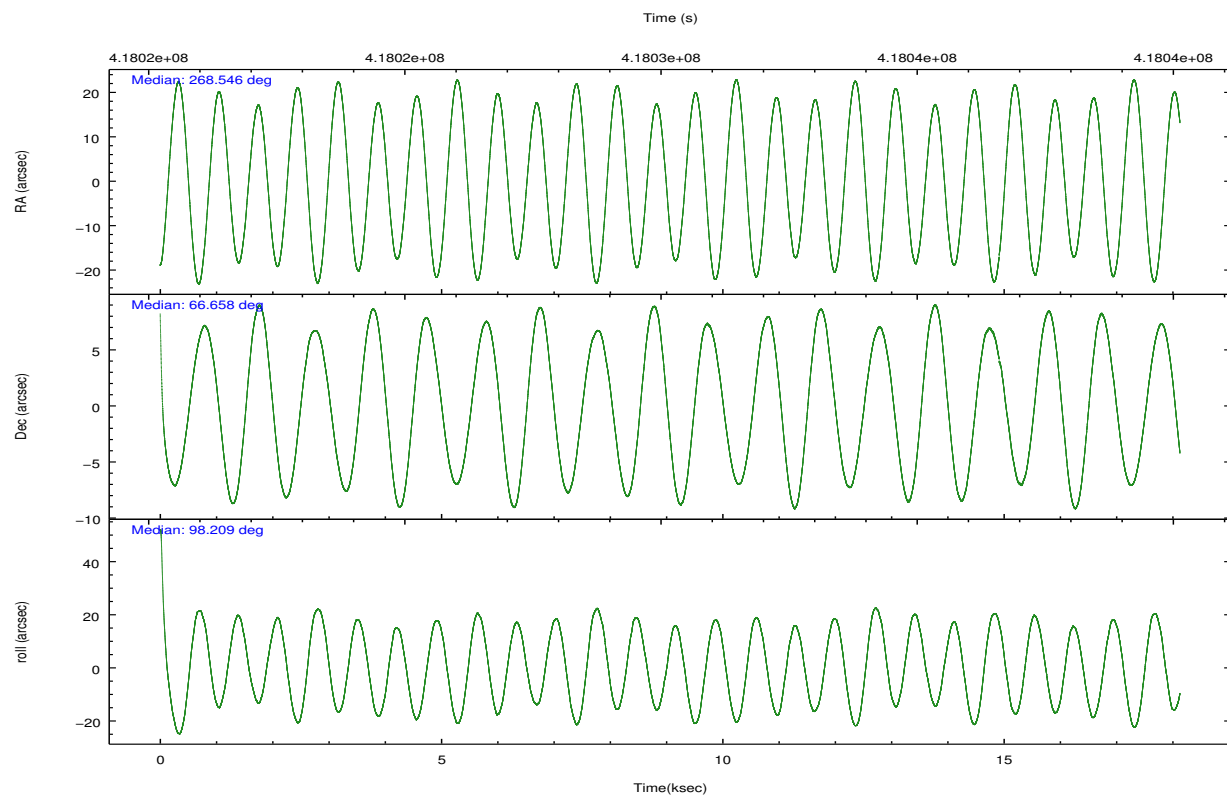
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	106828	113032	118229	113714	128525	148770	grade 0 events	4472	6195	4601	4348	4995	5863
rejected events	93649	97381	105464	101321	114496	82905		4%	5%	3%	3%	3%	3%
rejected %	87%	86%	89%	89%	89%	55%	grade 1 events	63	58	61	59	93	190
								0%	0%	0%	0%	0%	0%
							grade 2 events	3403	3513	3121	2817	3238	13448
								3%	3%	2%	2%	2%	9%
							grade 3 events	1406	1489	1233	1367	1345	5806
								1%	1%	1%	1%	1%	3%
							grade 4 events	1334	1431	1284	1342	1383	5593
								1%	1%	1%	1%	1%	3%
							grade 5 events	5179	5316	4621	5651	5822	15374
								4%	4%	3%	4%	4%	10%
							grade 6 events	2568	3025	2530	2519	3071	35163
								2%	2%	2%	2%	2%	23%
							grade 7 events	88403	92005	100778	95611	108578	67333
								82%	81%	85%	84%	84%	45%

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	268.588502	268.5454196778065	CCD I2 on	Y	Y
[deg] Pointing Dec	66.636577	66.65813211641247	CCD I3 on	Y	Y
[deg] Pointing Roll	97.968479	98.2167458434599	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)	418021245.184000	418020156.01337	CCD S5 on	N	N
Observation start date	2011-04-01T04:59:39	2011-04-01T04:42:36	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	418039245.184000	418039378.86437	On-chip summing requested	N	N
Observation end date	2011-04-01T09:59:39	2011-04-01T10:02:58	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



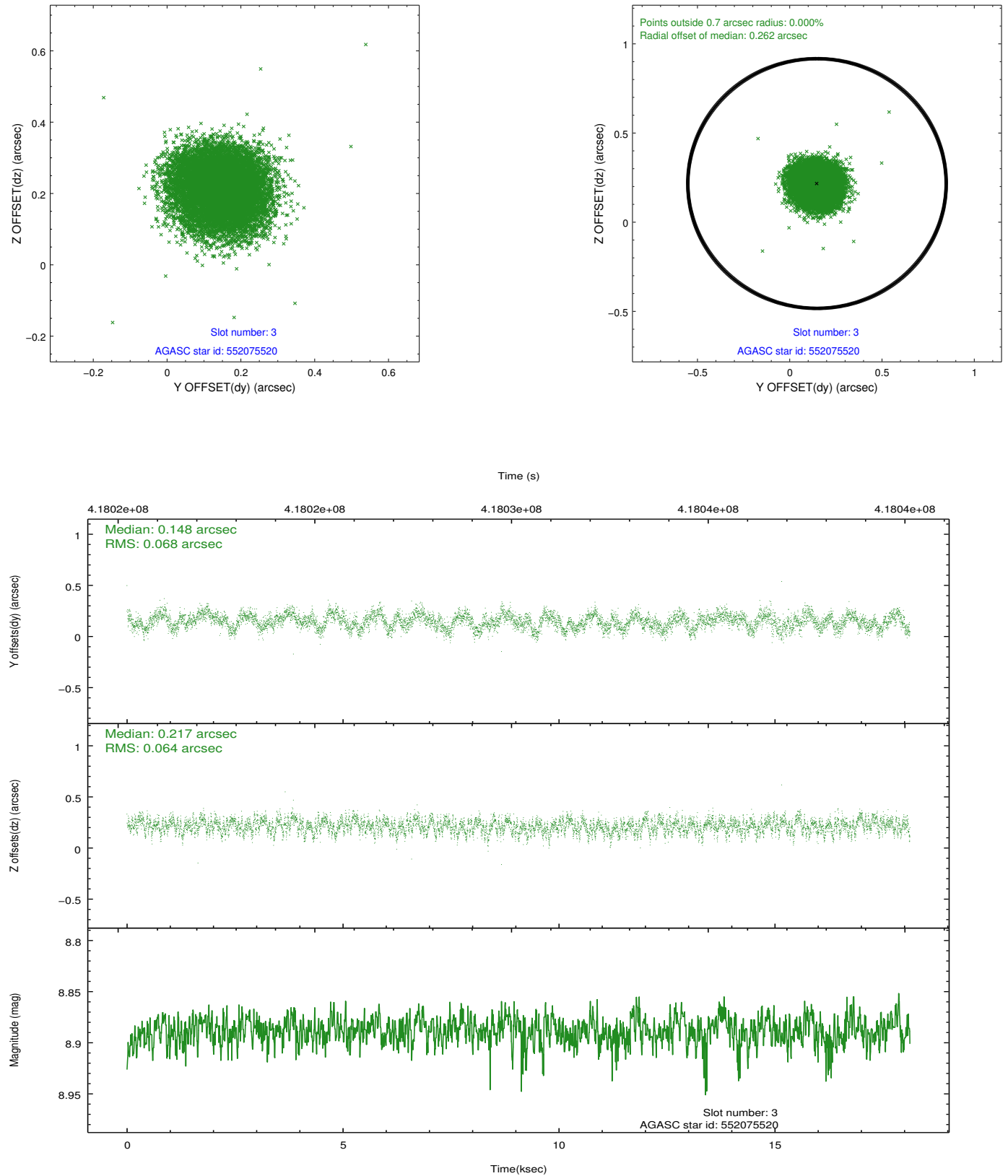


Slot Statistics

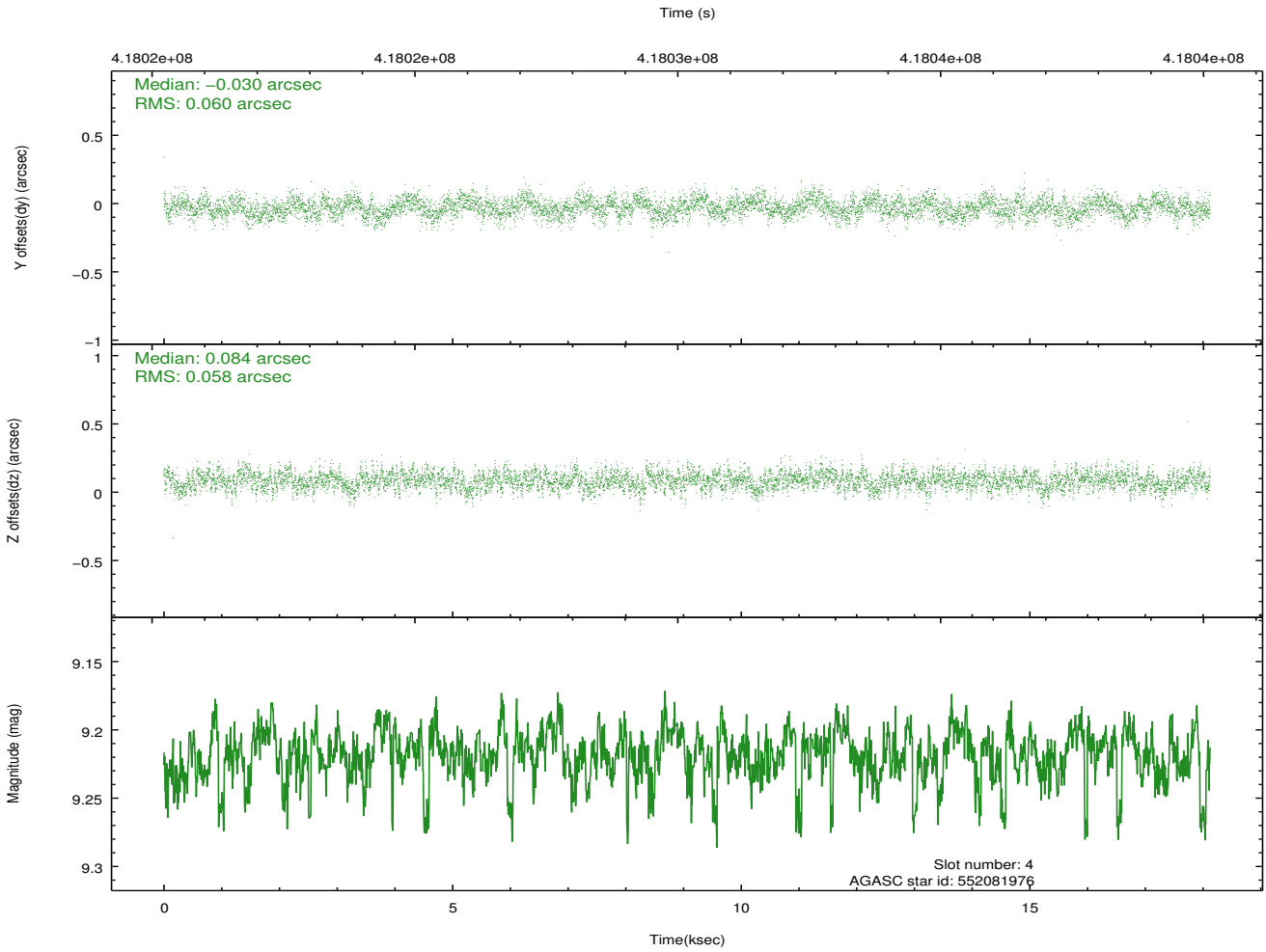
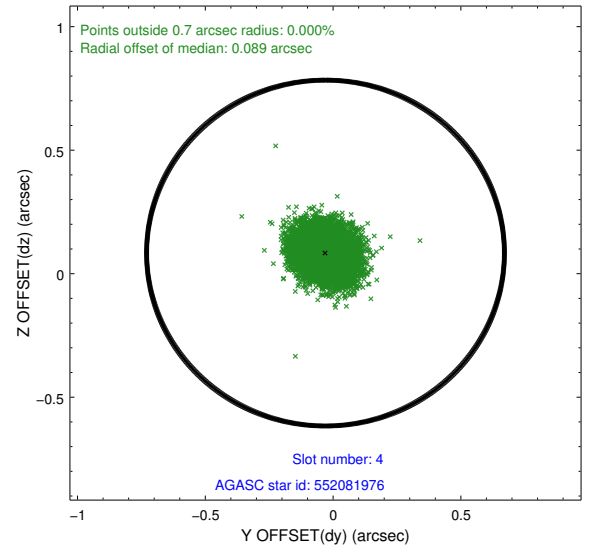
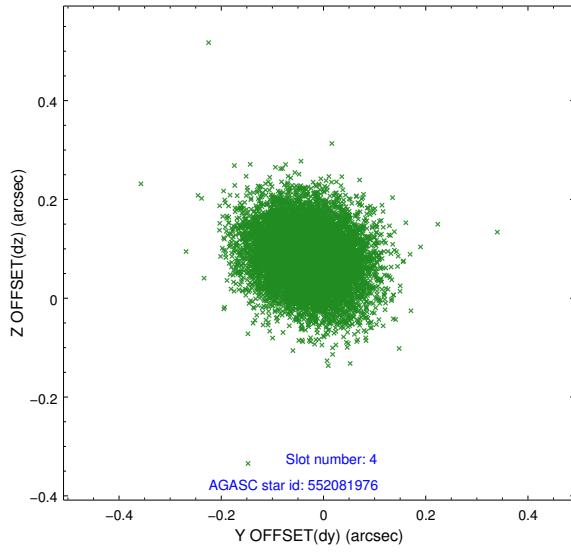
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.02	4422	-0.084	-0.102	0.016	0.026	0.000000	0.000000	-770.93	-846.48
1	FID	ACIS-I-4	7.03	4421	0.197	0.079	0.010	0.016	0.000000	0.000000	2143.26	1059.83
2	FID	ACIS-I-5	7.10	4422	-0.215	0.092	0.012	0.019	0.000000	0.000000	-1824.64	1057.85
3	GUIDE	552075520	8.89	8834	0.148	0.217	0.101	0.155	269.430358	66.310622	-1322.44	-1044.20
4	GUIDE	552081976	9.22	8803	-0.030	0.084	0.089	0.142	269.000724	66.928627	962.62	-721.67
5	GUIDE	552082392	9.70	8830	-0.226	-0.152	0.117	0.189	267.761612	66.950878	1289.72	996.41
6	GUIDE	552084280	7.64	8842	0.133	-0.184	0.079	0.126	268.233478	66.419076	-702.75	614.72
7	GUIDE	552216648	9.74	8777	-0.021	0.038	0.136	0.225	270.130141	67.075369	1291.38	-2362.72

2.4 Star Slots

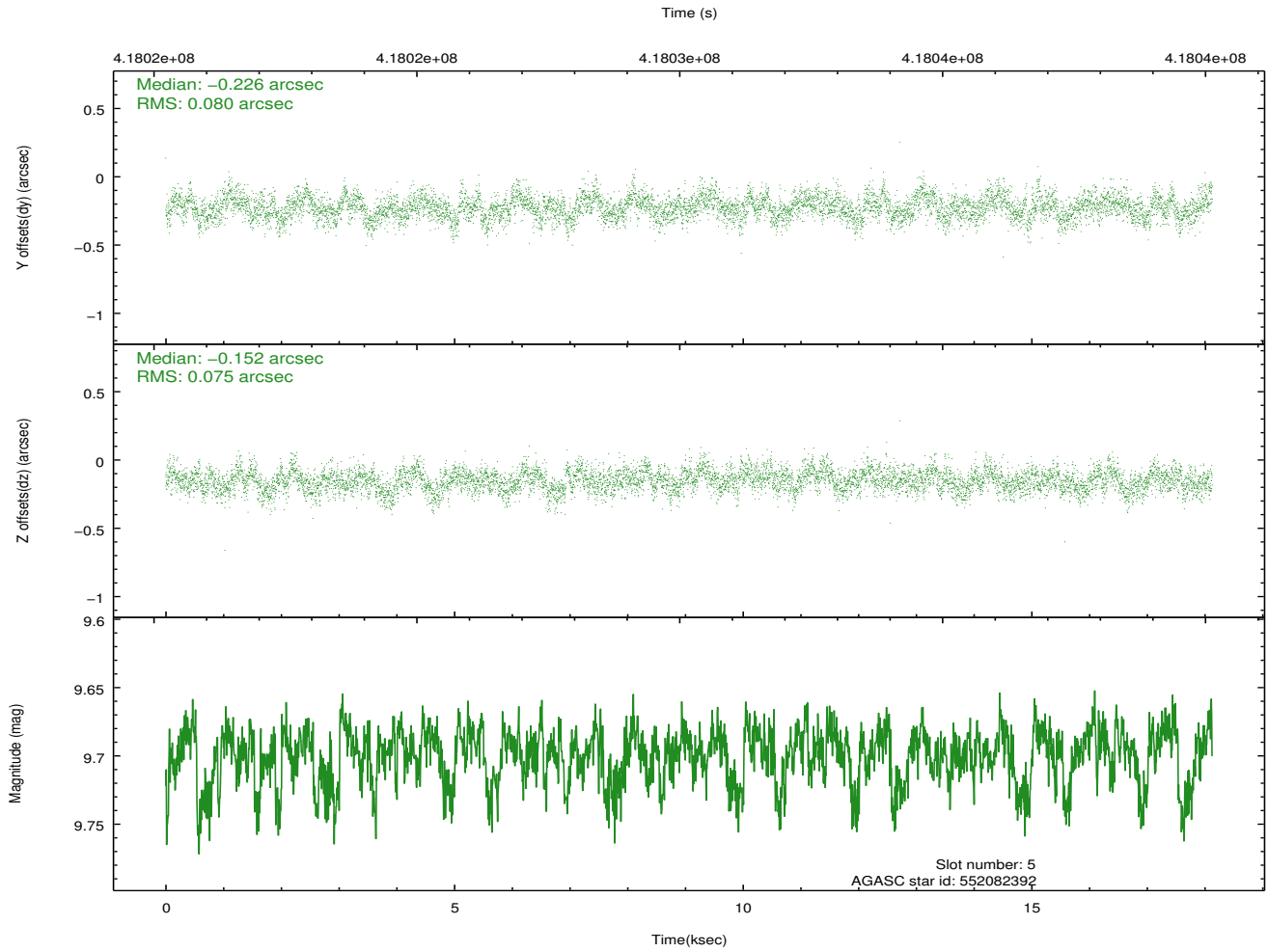
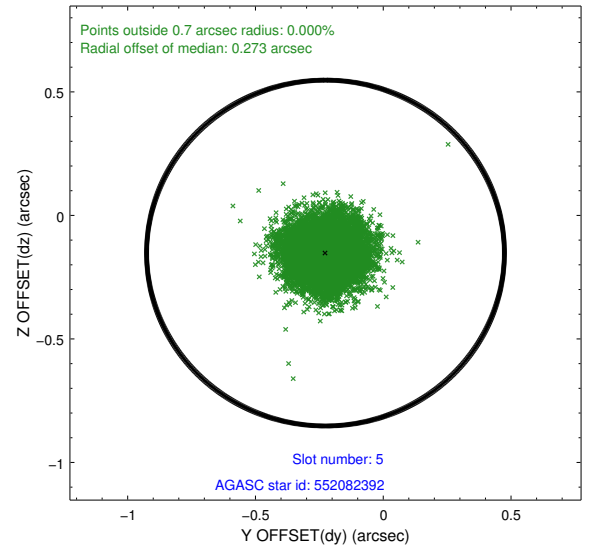
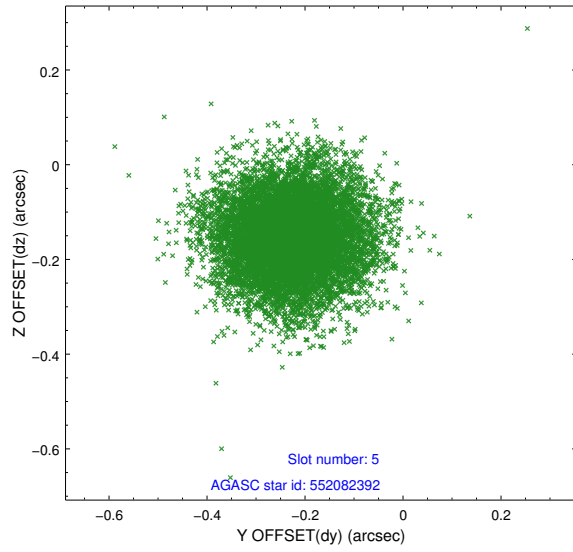
2.4.1 Slot 3



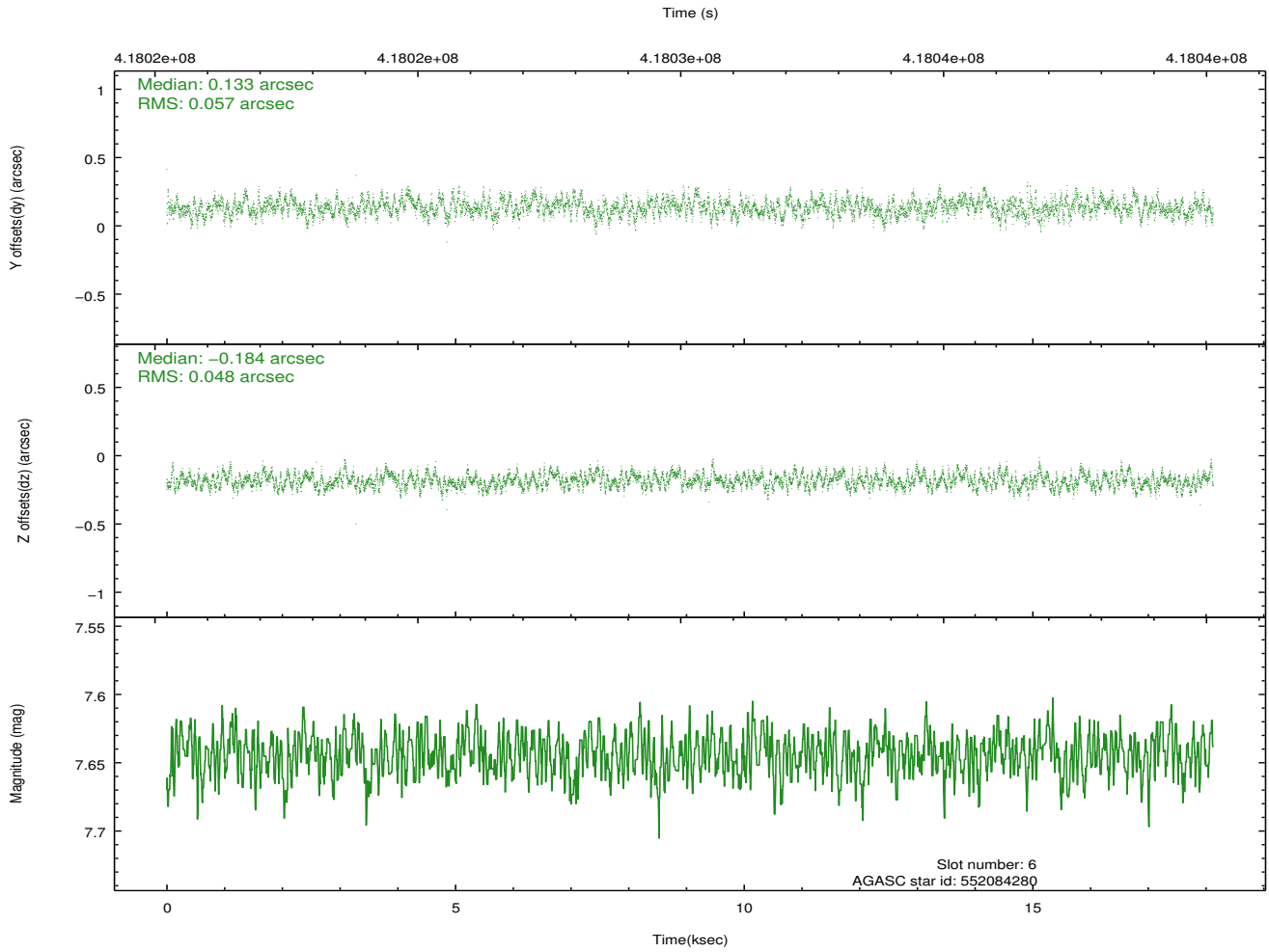
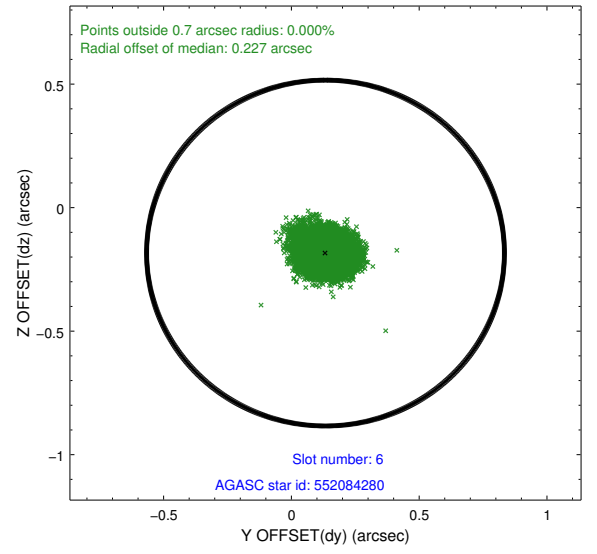
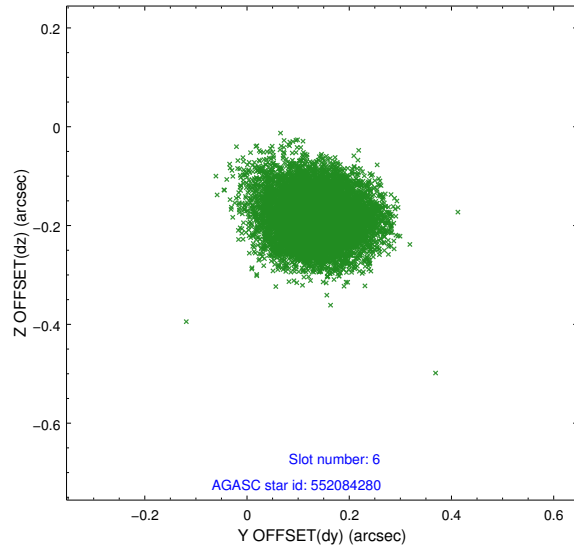
2.4.2 Slot 4



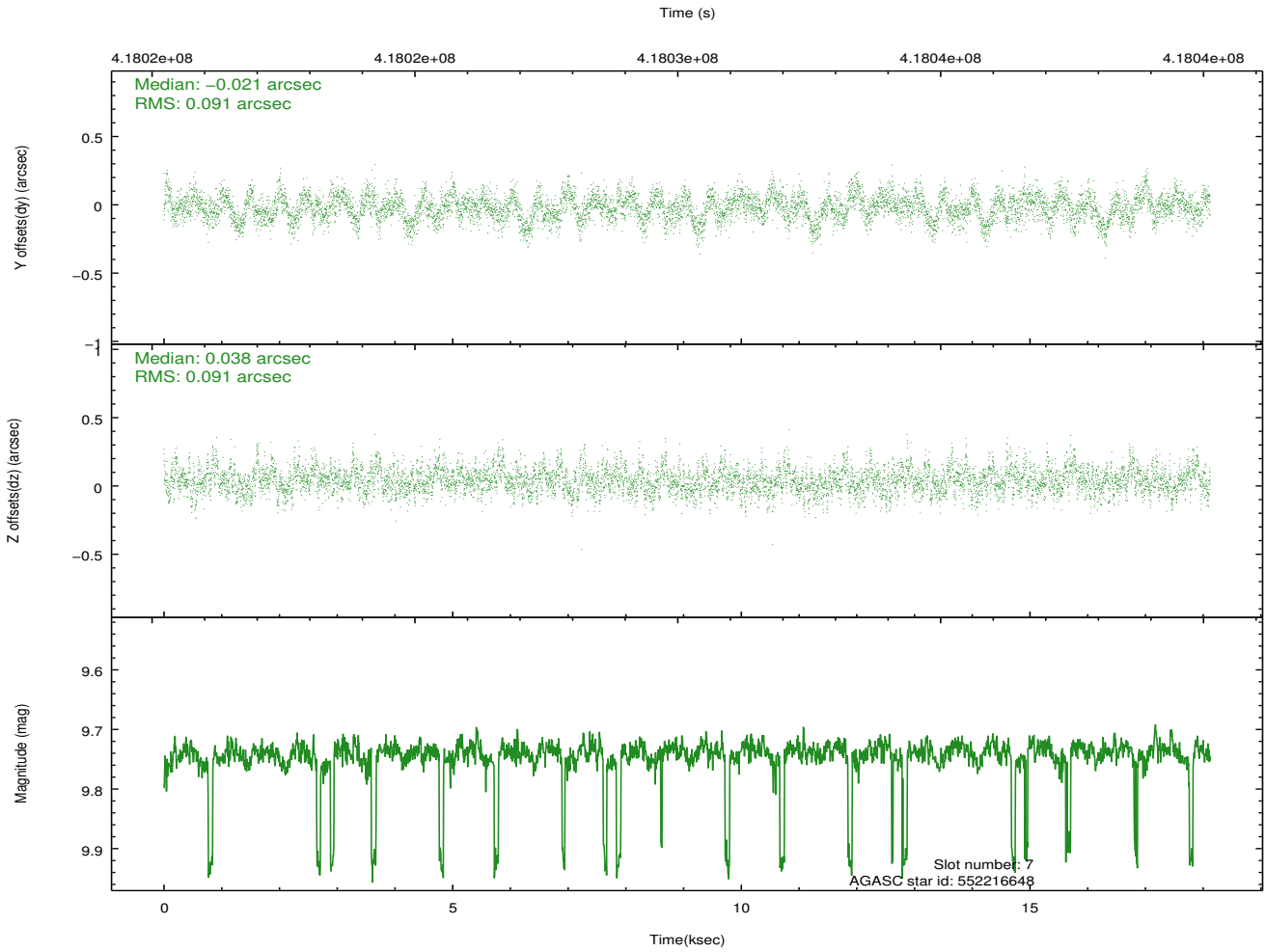
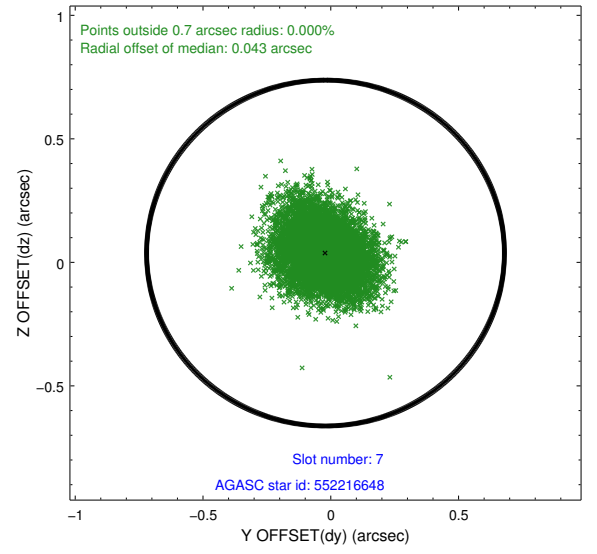
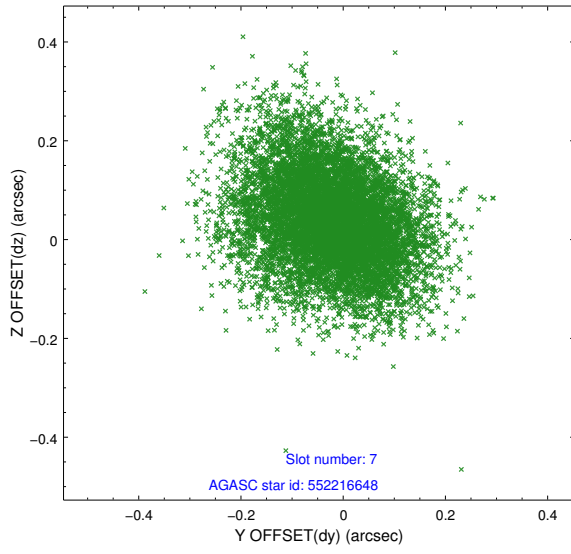
2.4.3 Slot 5



2.4.4 Slot 6

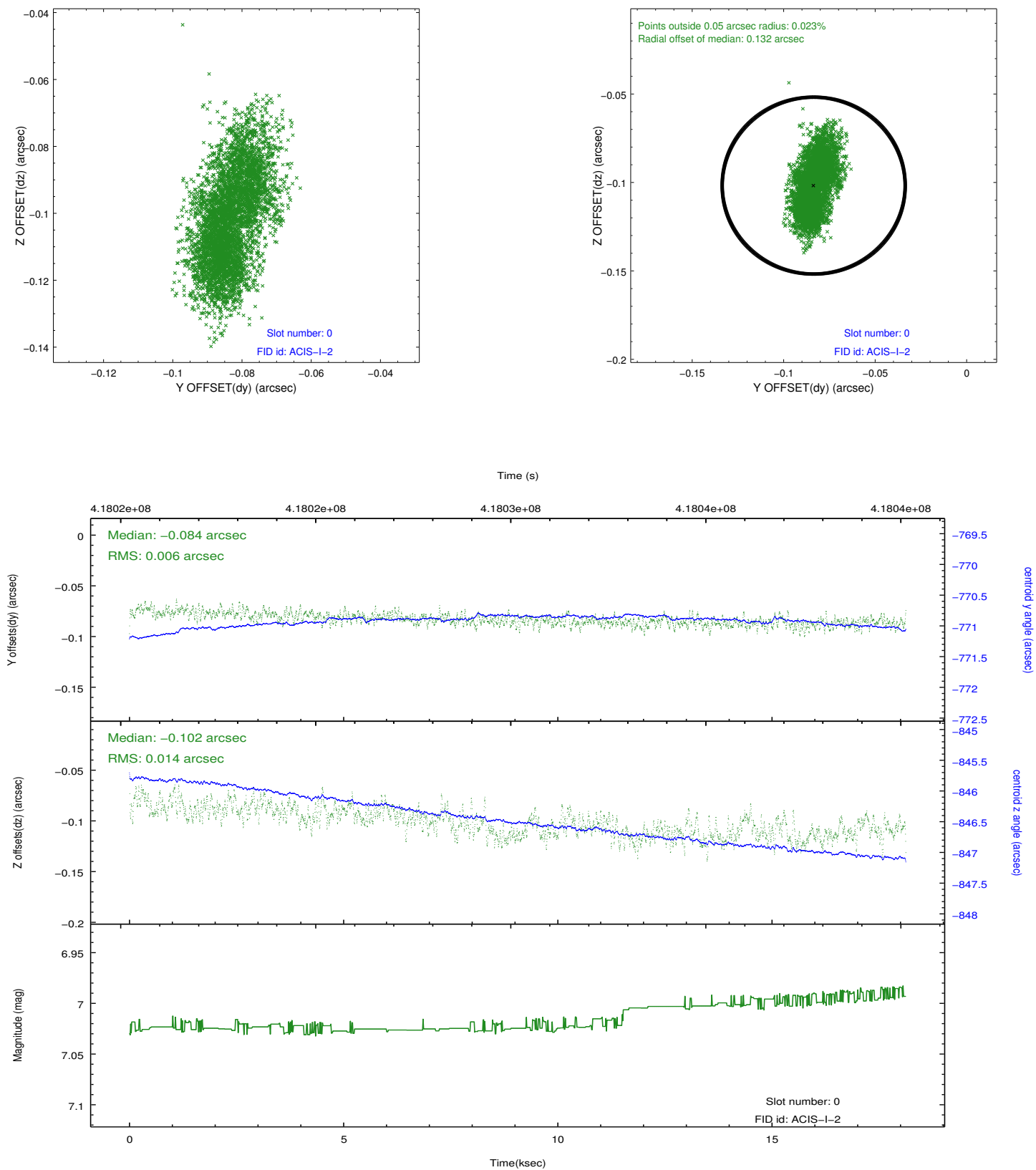


2.4.5 Slot 7

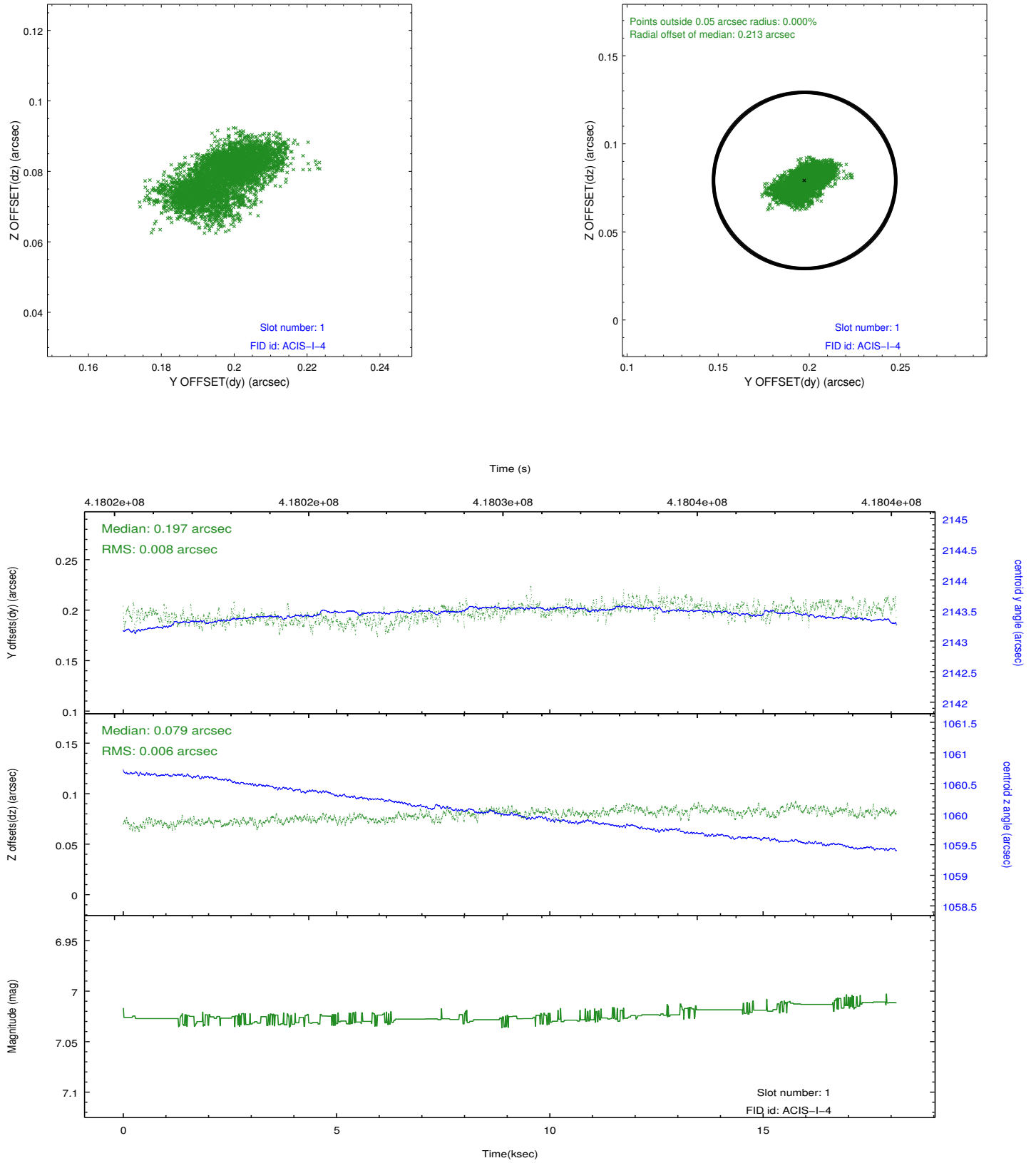


2.5 FID Slots

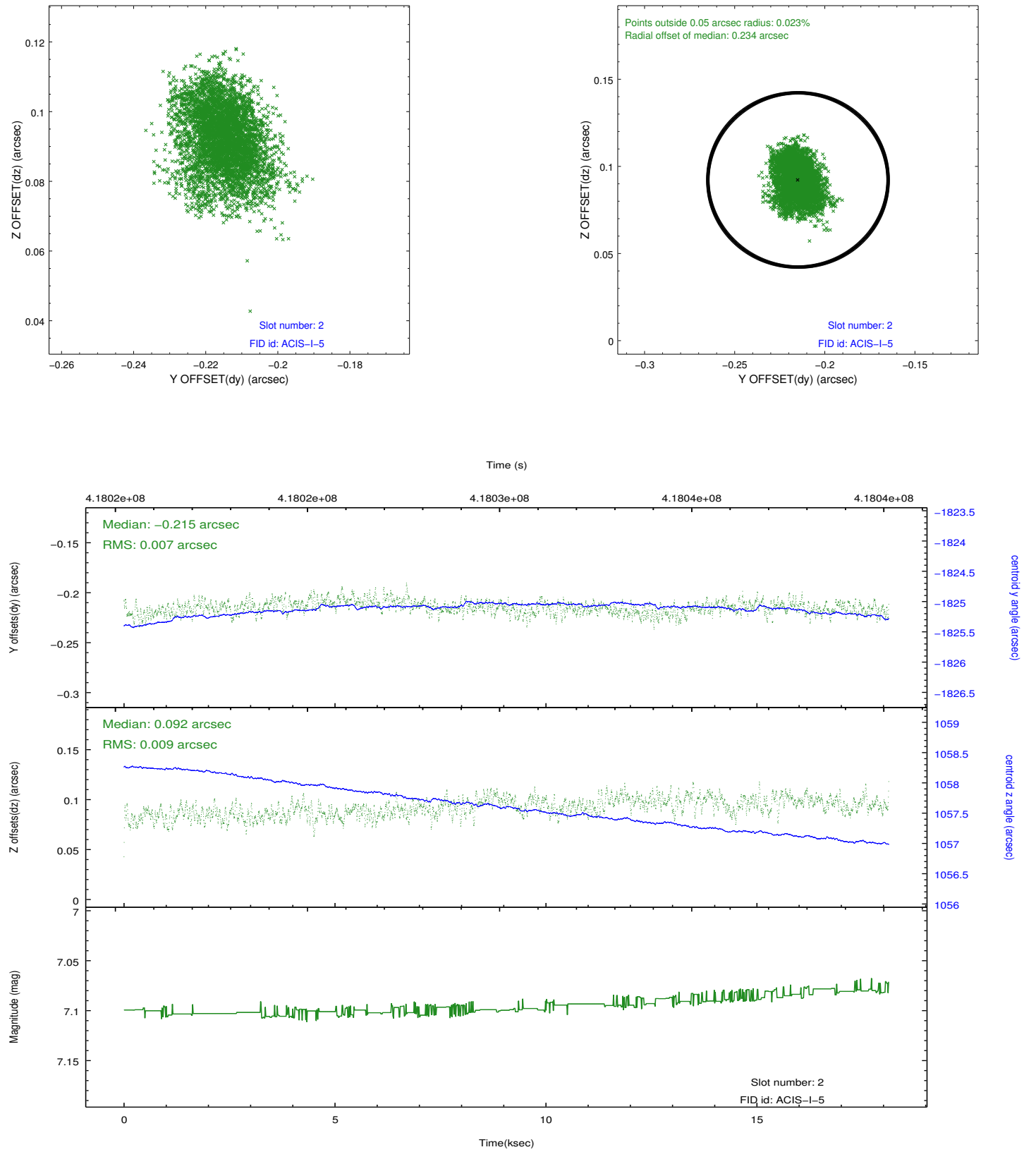
2.5.1 Slot 0



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)	2012.02.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.054399932802

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.