

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12302 - L2 Version 2
Chandra X-Ray Center

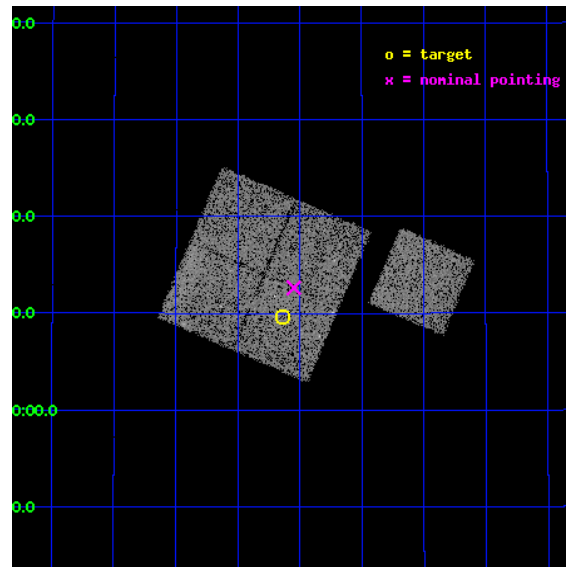
L2 Processing Date : Feb 4 2012

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1 Front

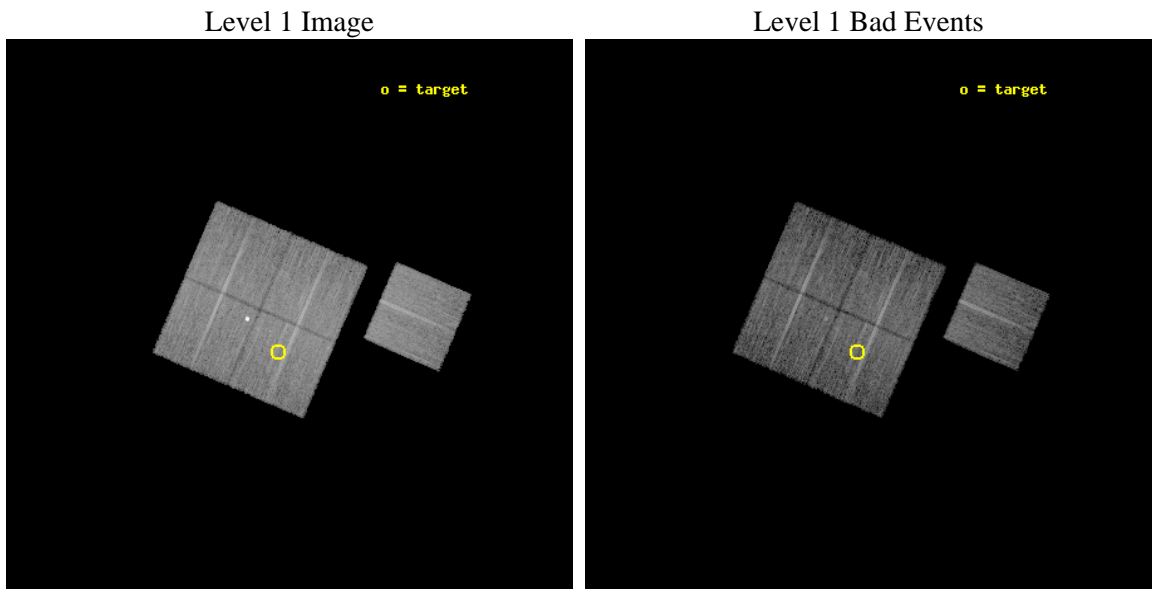
seq_num	801007	Sequence number
obs_id	12302	Observation id
title	The X-ray Properties of Weak-Lensing Selected Galaxy Clusters	Prop
observer	MR Paul Giles	Principal investigator
object	SLJ1135.6+3009	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	173.91	Observer's specified target RA [deg]
dec_targ	30.16	Observer's specified target Dec [deg]
ra_nom	173.88714553642	Nominal RA [deg]
dec_nom	30.210731845872	Nominal Dec [deg]
roll_nom	113.28595072316	Nominal Roll [deg]
revision	2	Processing version of data
ontime	11051.500084996	Sum of GTIs [s]
livetime	10907.10410039	Livetime [s]
ontime0	11051.500084996	Sum of GTIs [s]
ontime1	11051.500084996	Sum of GTIs [s]
ontime2	11051.500084996	Sum of GTIs [s]
ontime3	11051.500084996	Sum of GTIs [s]
ontime6	11051.500084996	Sum of GTIs [s]
l2events	37083	Number of level 2 events



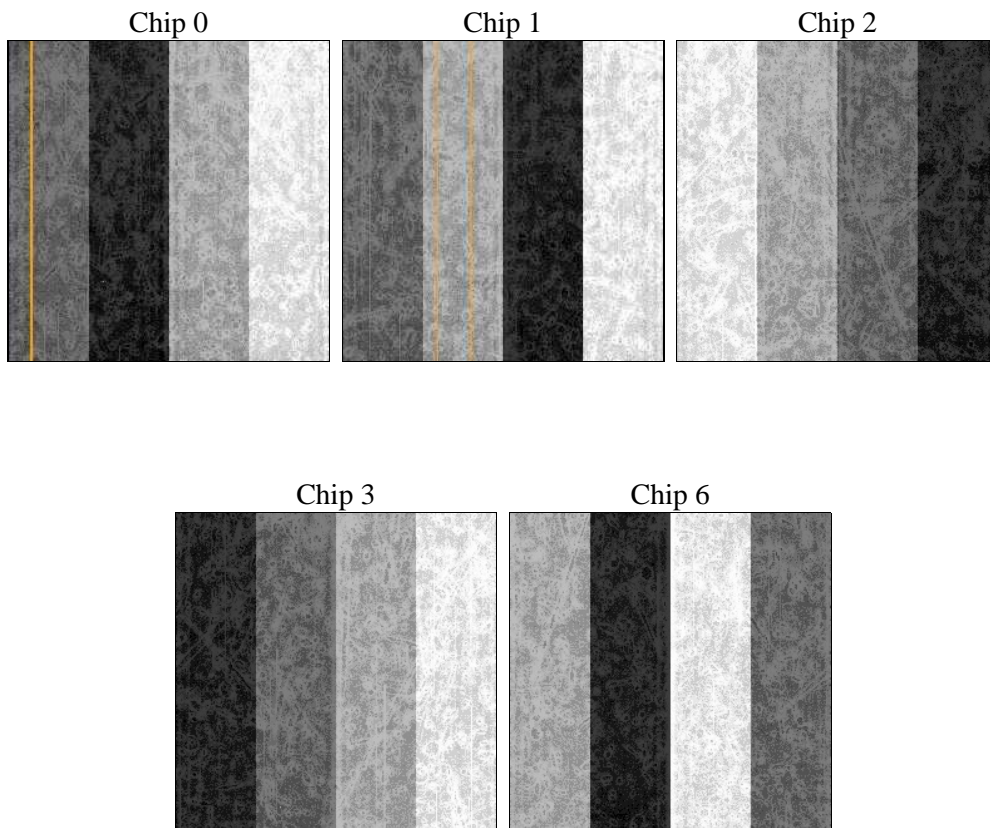
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11000.333000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	11051.500084996	Sum of GTIs [s]
caldbver	4.4.7	 	ontime0	11051.500084996	Sum of GTIs [s]
date	2012-02-04T06:00:00	Date and time of file creation	ontime1	11051.500084996	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	11051.500084996	Sum of GTIs [s]
			ontime3	11051.500084996	Sum of GTIs [s]
			ontime6	11051.500084996	Sum of GTIs [s]
			l1events	394440	Number of level 1 events

2.1.4 Events

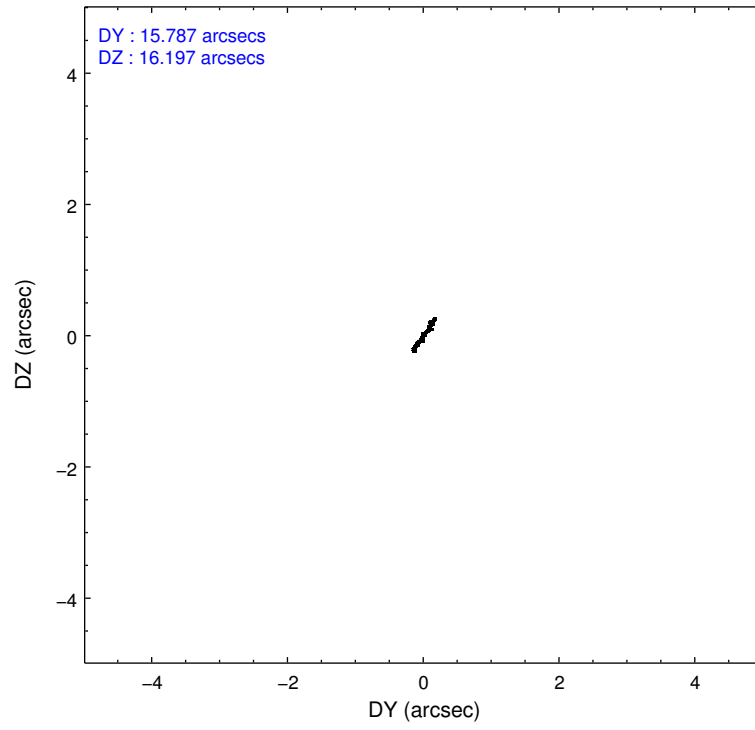
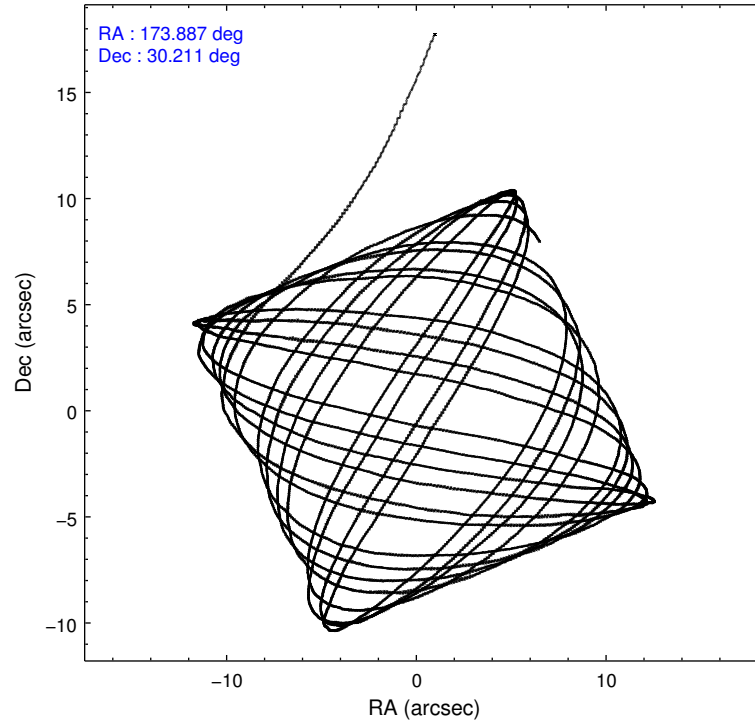
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	72031	82152	81703	78193	80361
rejected events	63276	65354	73234	69652	71655
rejected %	87%	79%	89%	89%	89%

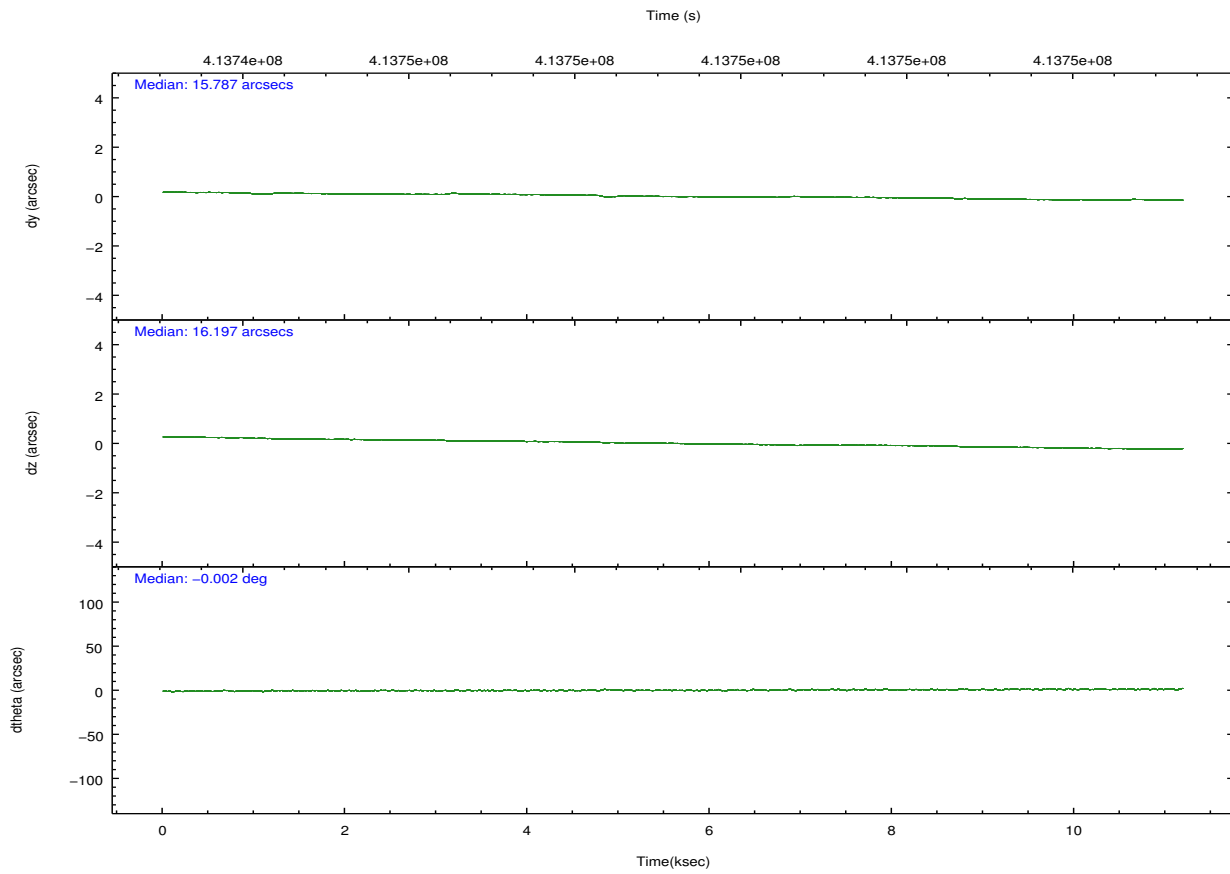
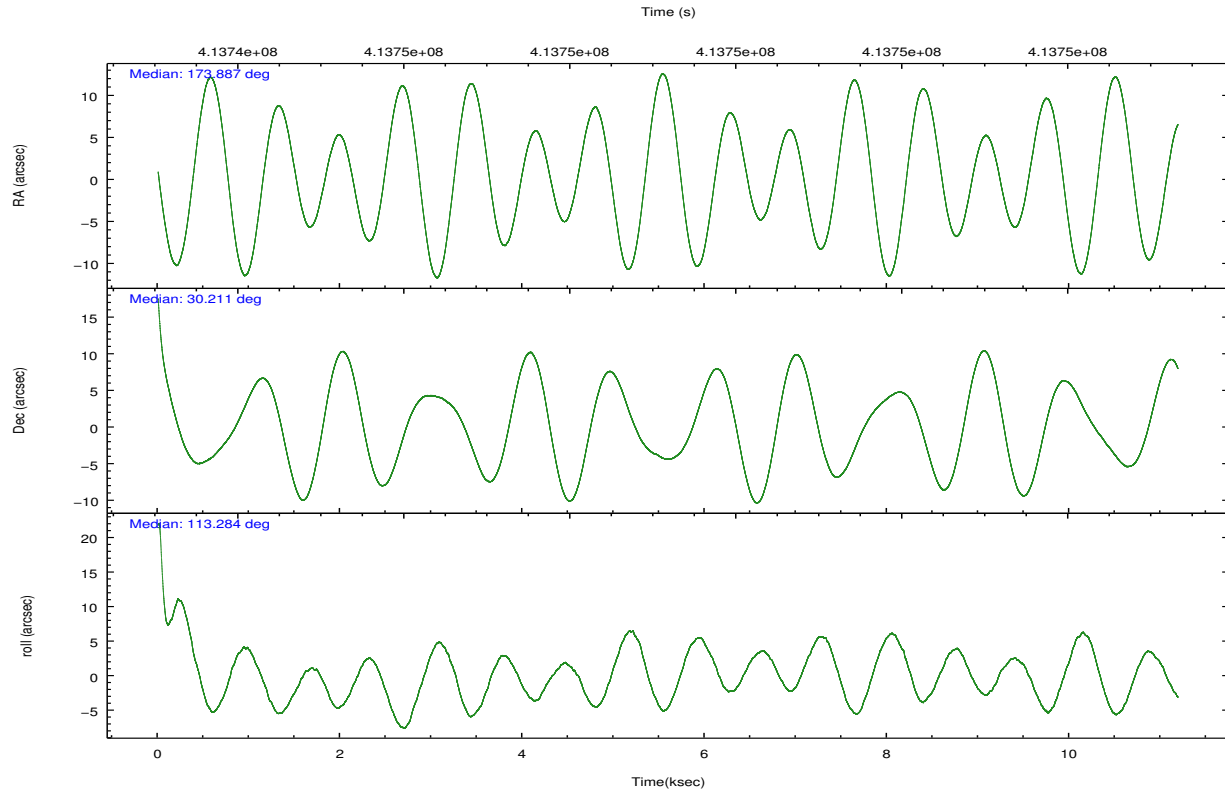
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	2900	3422	2976	3225	2874
	4%	4%	3%	4%	3%
grade 1 events	34	43	62	48	50
	0%	0%	0%	0%	0%
grade 2 events	2238	9374	2094	1880	1887
	3%	11%	2%	2%	2%
grade 3 events	924	1016	934	903	979
	1%	1%	1%	1%	1%
grade 4 events	920	996	897	893	929
	1%	1%	1%	1%	1%
grade 5 events	3465	3585	3269	3919	3666
	4%	4%	4%	5%	4%
grade 6 events	1774	1993	1570	1642	2040
	2%	2%	1%	2%	2%
grade 7 events	59776	61723	69901	65683	67936
	82%	75%	85%	84%	84%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	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	173.912779	173.8871455364154	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.194360	30.21073184587192	Alternating exposures requested	N	N
[deg] Pointing Roll	113.064349	113.2859507231592	[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	-225.792463	-225.7829997647864			
[mm] SIM translation stage offset	-7.8	-7.809453238143249			
[s] Observation start time (MET)	413743783.184000	413742850.77936			
Observation start date	2011-02-10T16:48:37	2011-02-10T16:34:10			
[s] Observation end time (MET)	413754784.184000	413755018.55499			
Observation end date	2011-02-10T19:51:58	2011-02-10T19:56:58			
Read mode	TIMED	TIMED			

2.3 Aspect



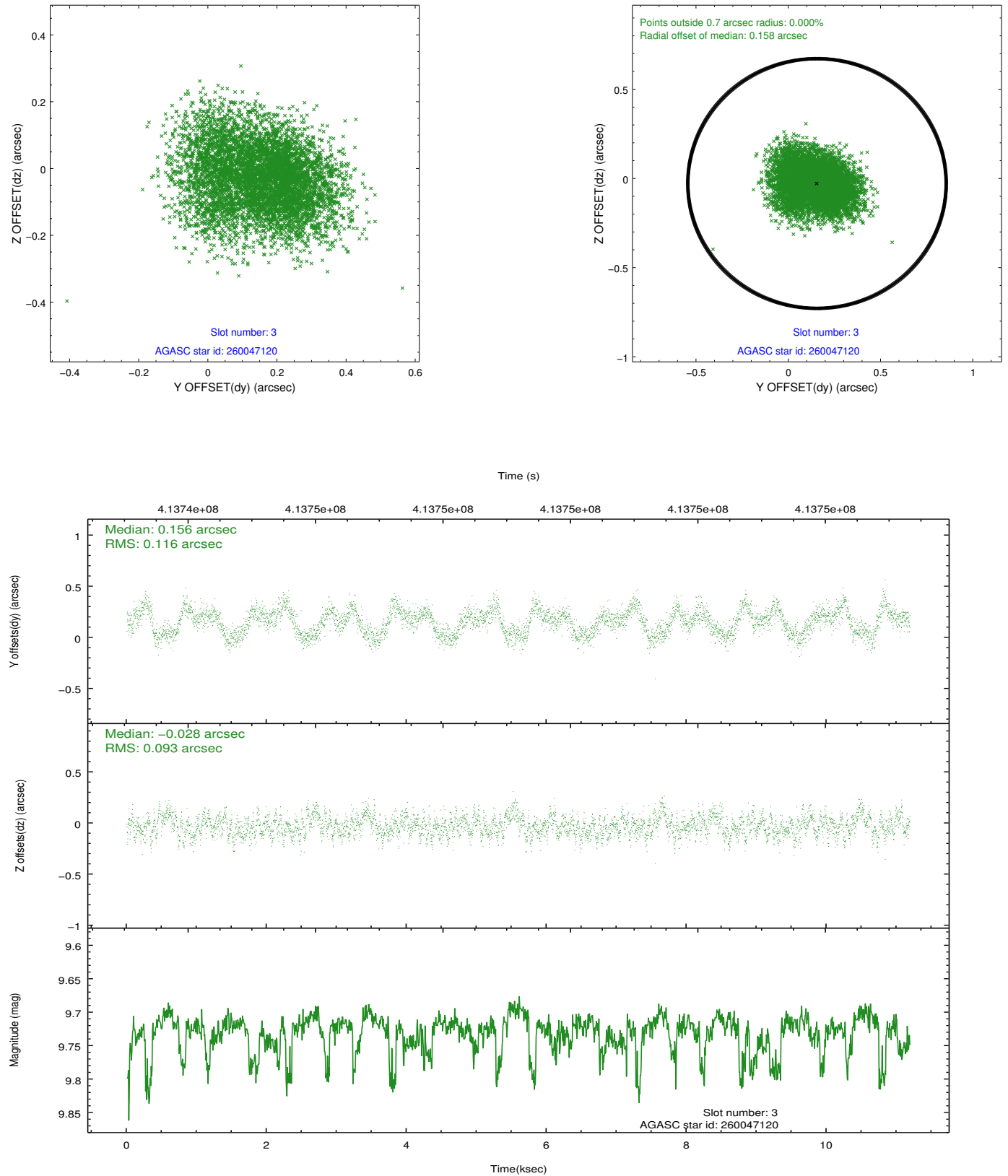


Slot Statistics

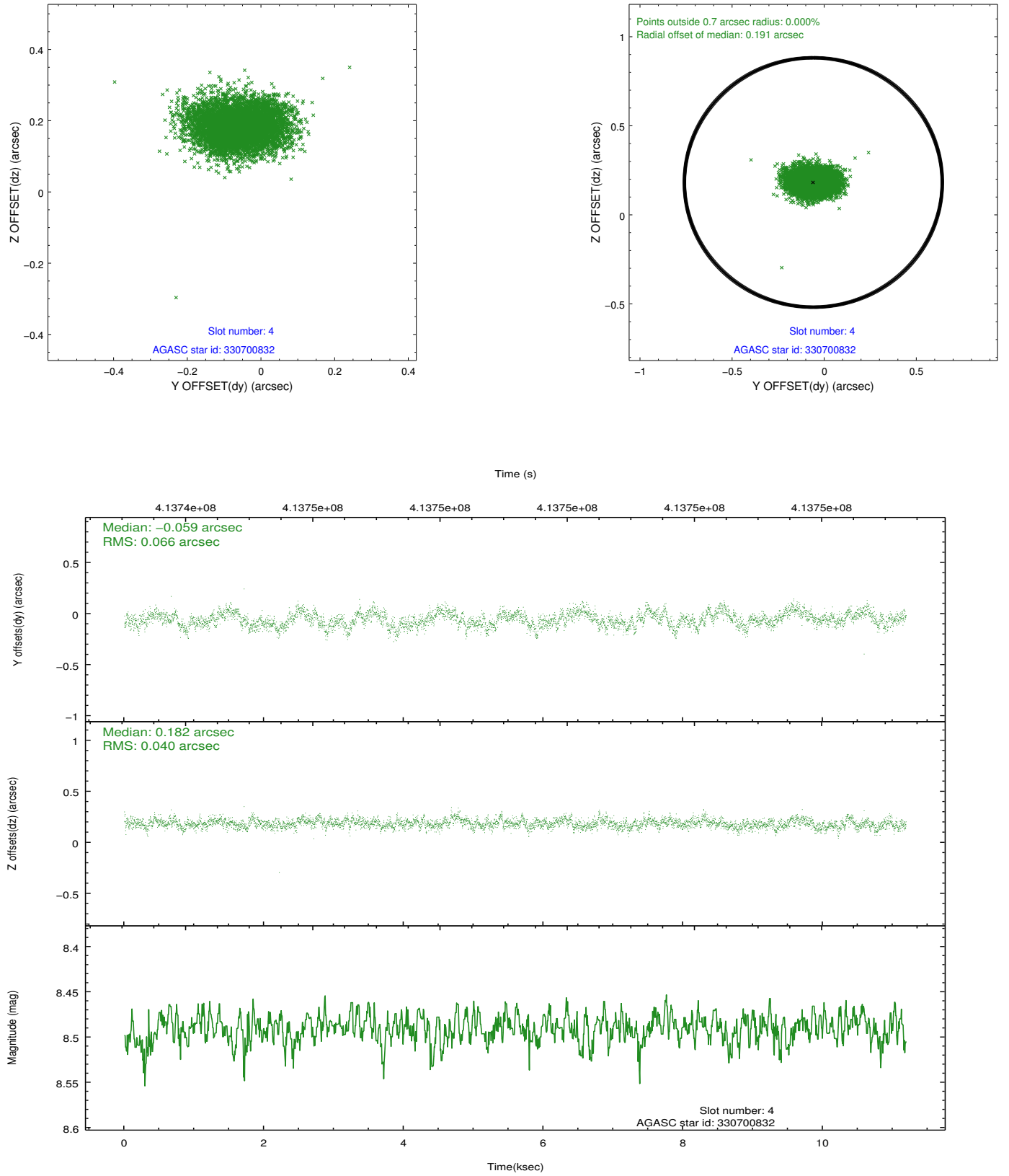
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.07	2729	0.135	-0.080	0.013	0.030	0.000000	0.000000	923.64	-1000.23
1	FID	ACIS-I-5	7.05	2729	-0.262	0.122	0.011	0.023	0.000000	0.000000	-1824.64	897.16
2	FID	ACIS-I-6	7.08	2729	0.036	0.030	0.009	0.016	0.000000	0.000000	388.56	1542.11
3	GUIDE	260047120	9.73	5451	0.156	-0.028	0.162	0.253	173.912292	29.933667	-862.64	369.19
4	GUIDE	330700832	8.49	5453	-0.059	0.182	0.081	0.139	174.023141	30.721386	1612.93	-1056.55
5	GUIDE	330702192	8.93	5457	-0.198	-0.249	0.088	0.152	173.840576	30.331544	542.86	12.87
6	GUIDE	260066584	8.84	5457	0.103	0.181	0.100	0.155	174.652464	29.756442	-2348.93	-1511.82
7	GUIDE	260049152	9.16	5453	0.010	-0.089	0.114	0.186	173.769269	29.424657	-2374.32	1498.38

2.4 Star Slots

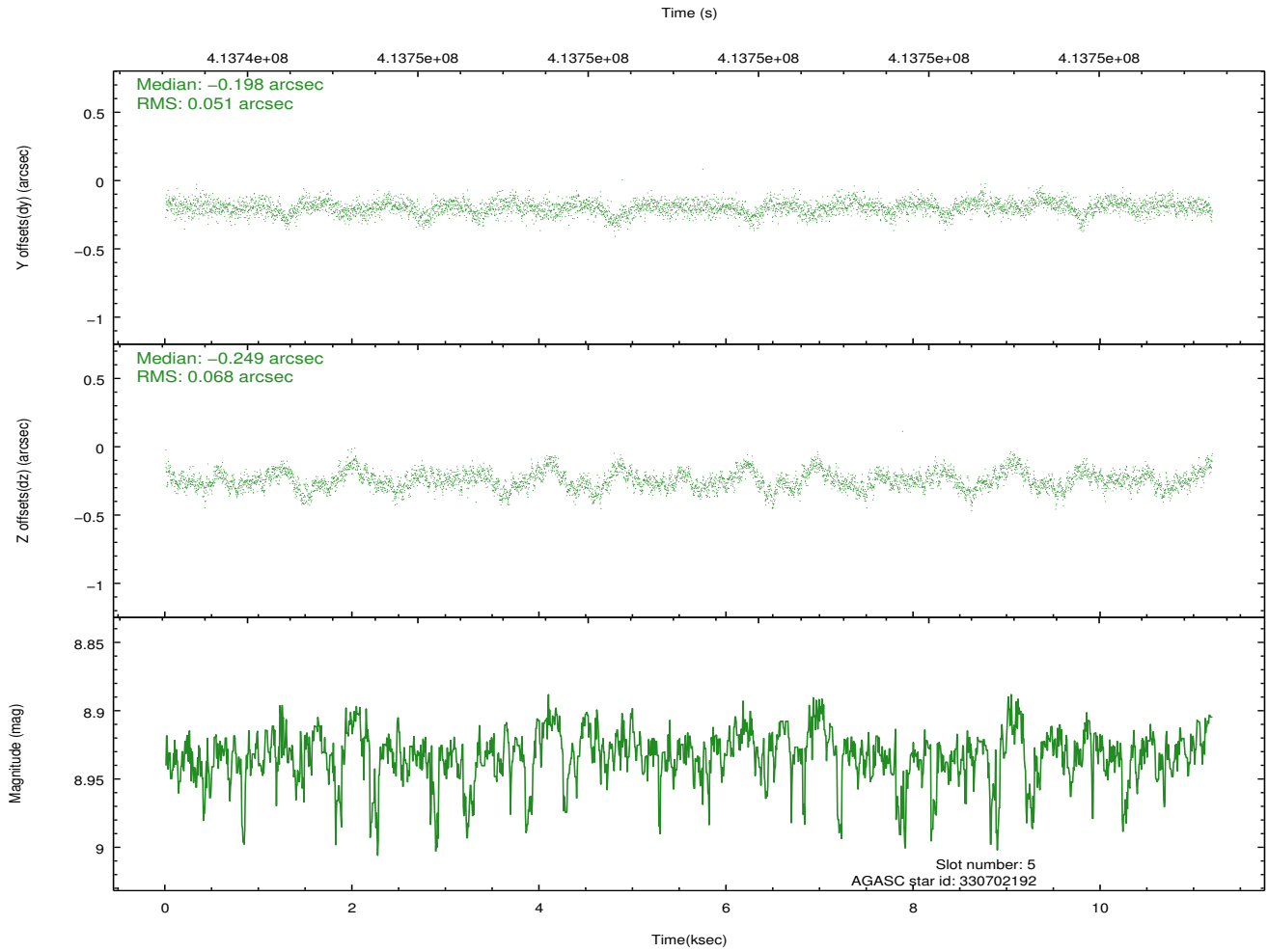
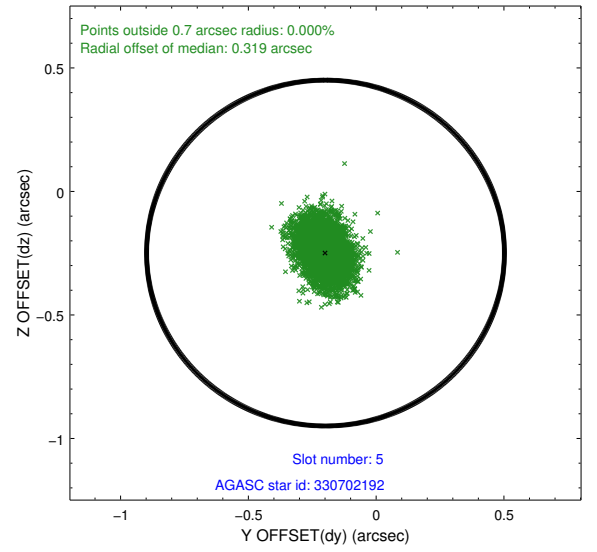
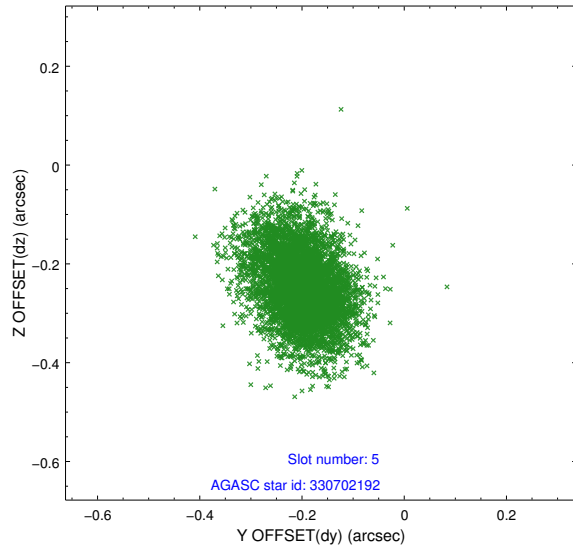
2.4.1 Slot 3



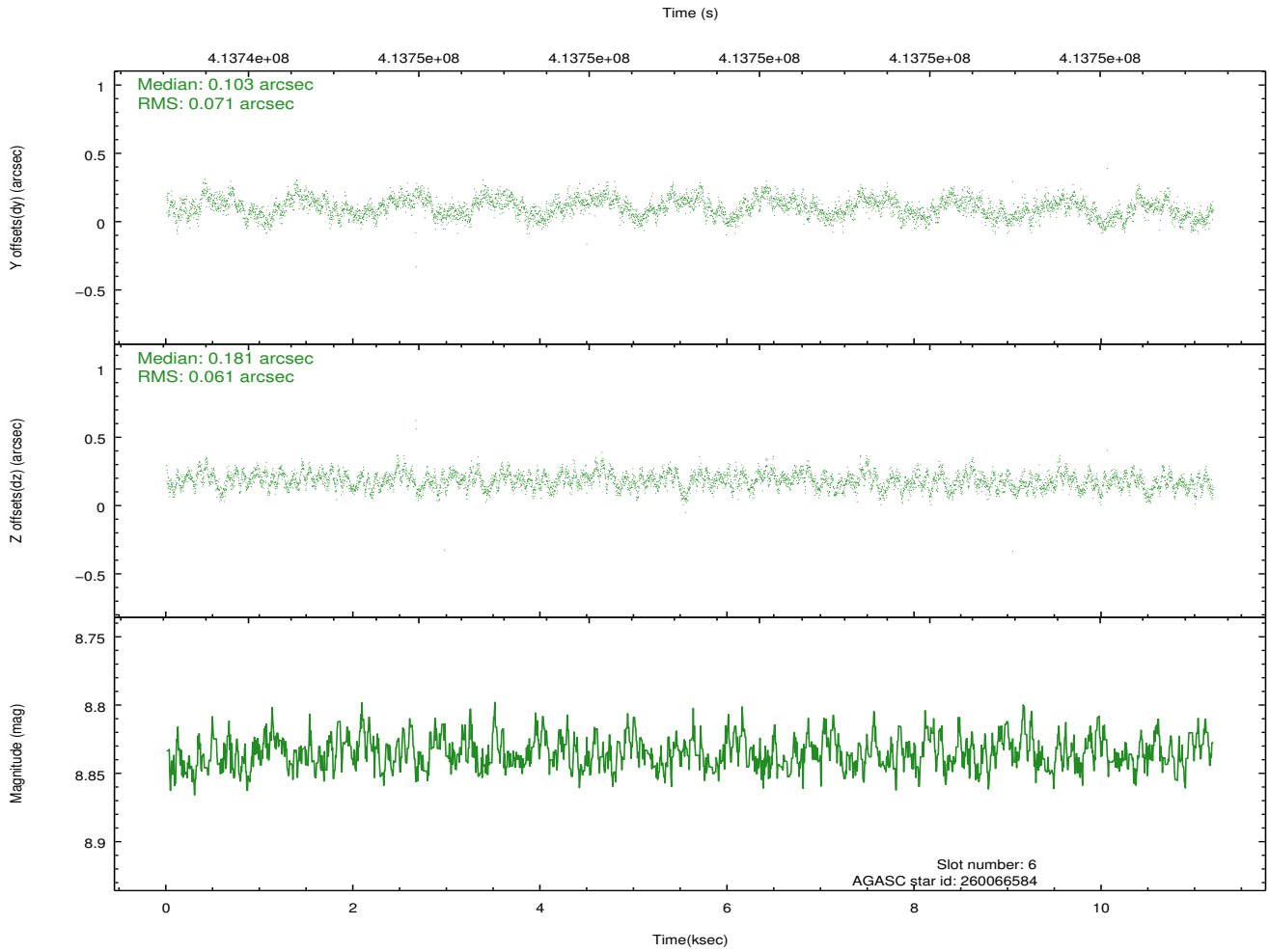
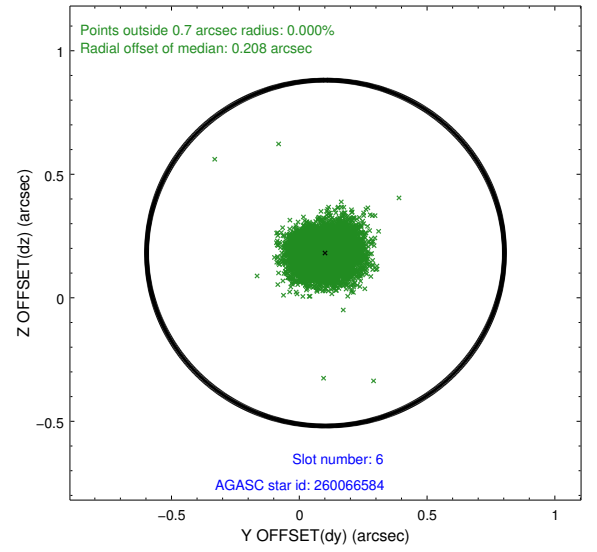
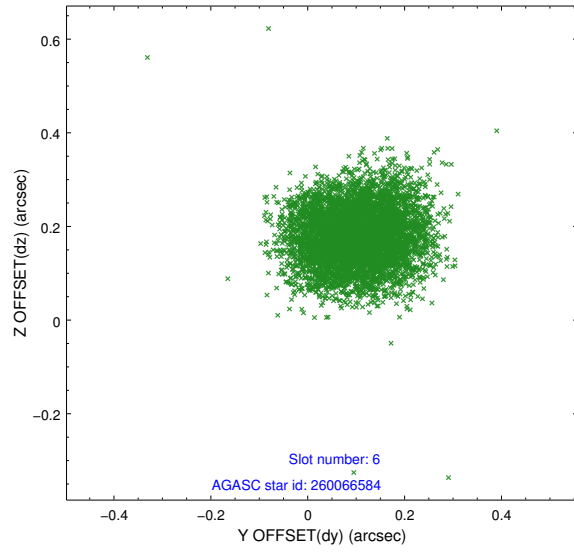
2.4.2 Slot 4



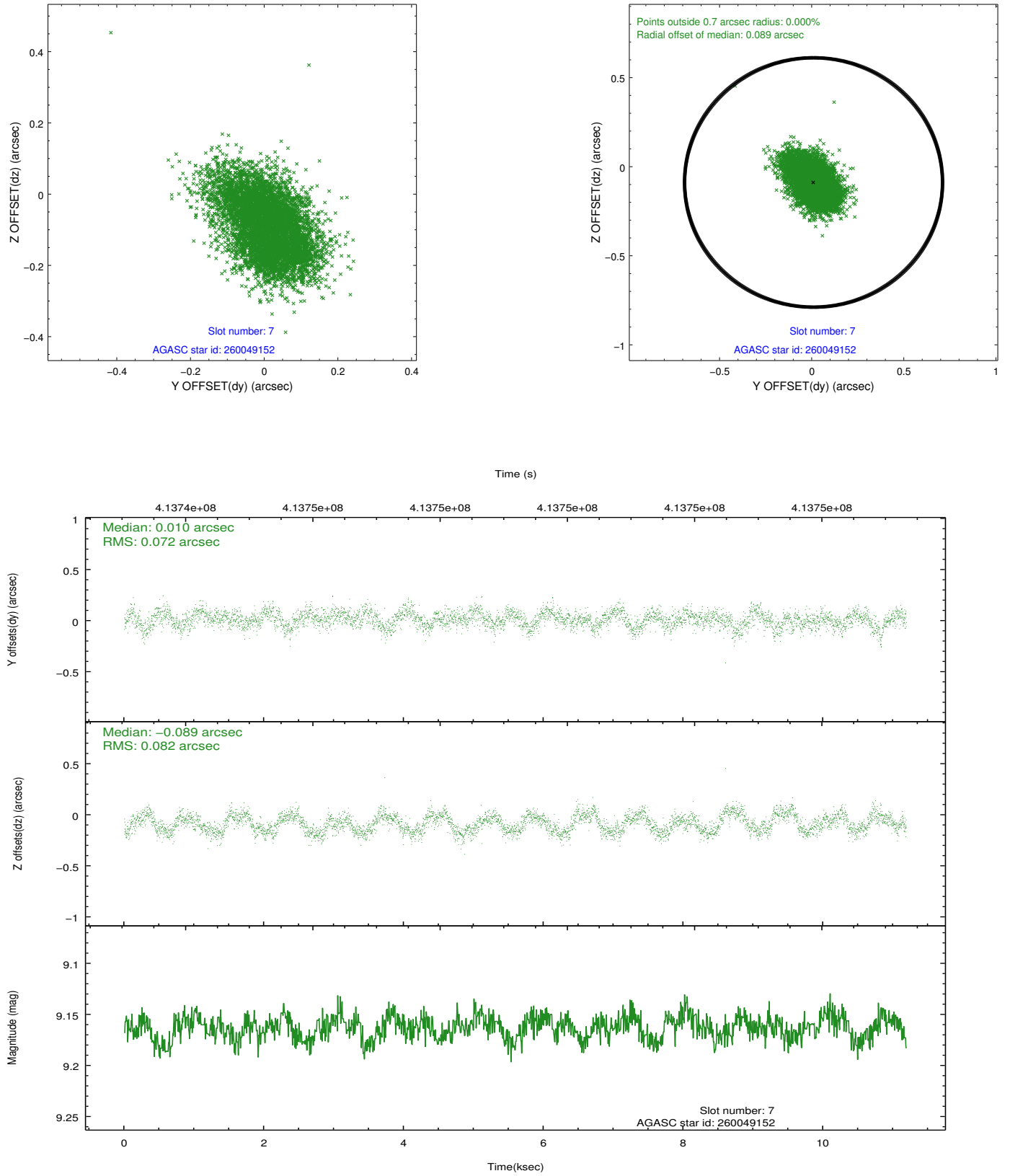
2.4.3 Slot 5



2.4.4 Slot 6

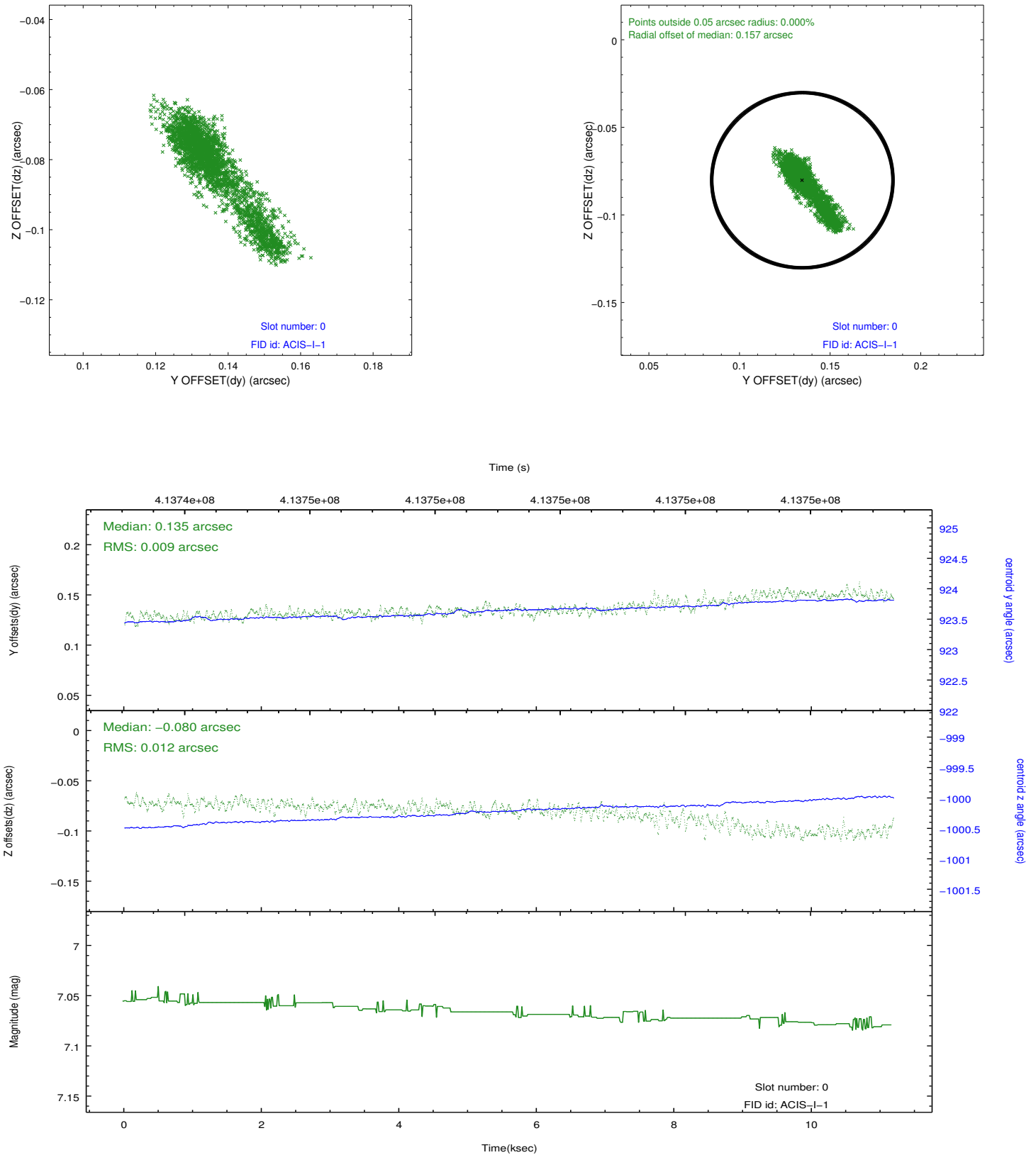


2.4.5 Slot 7

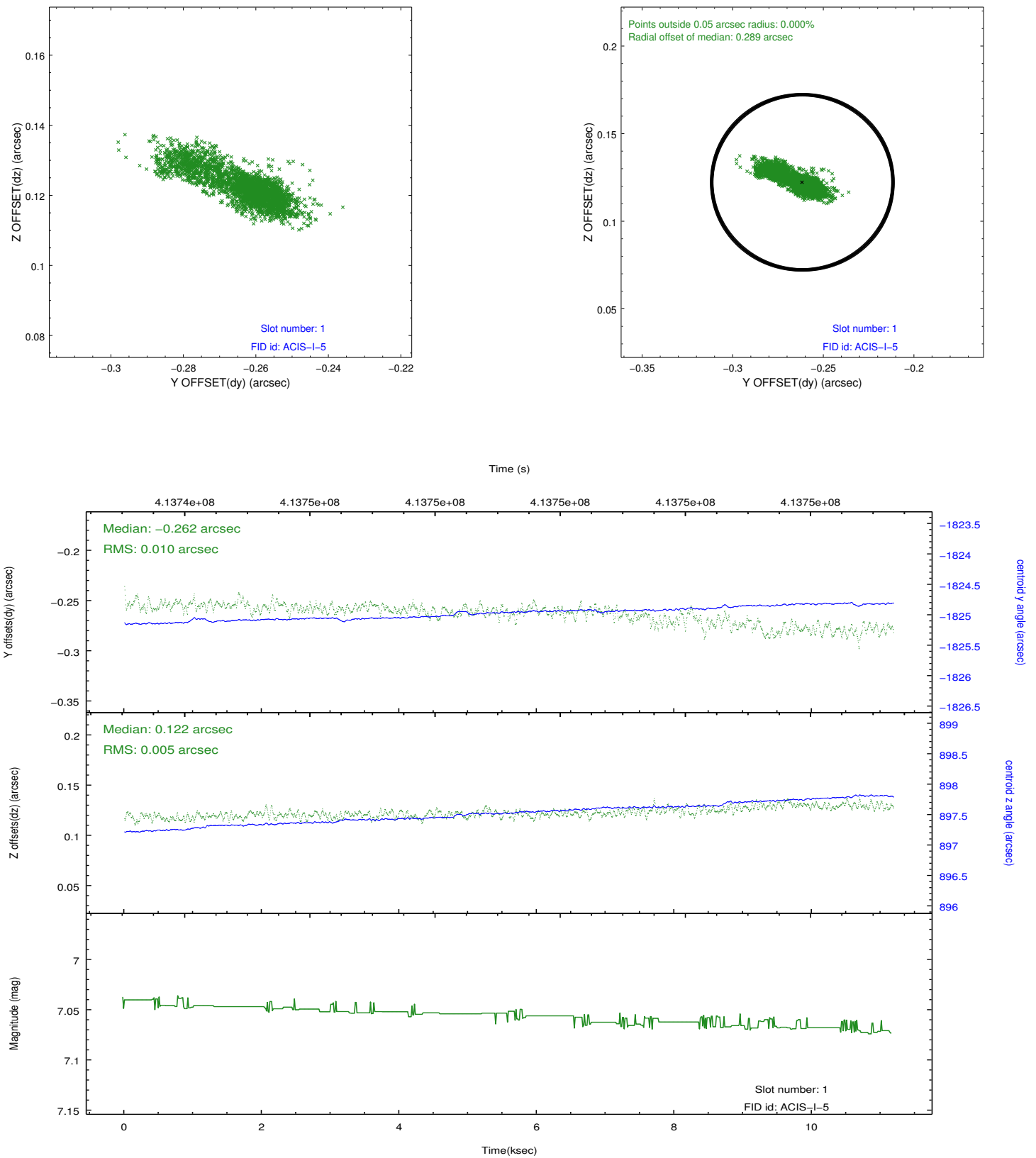


2.5 FID Slots

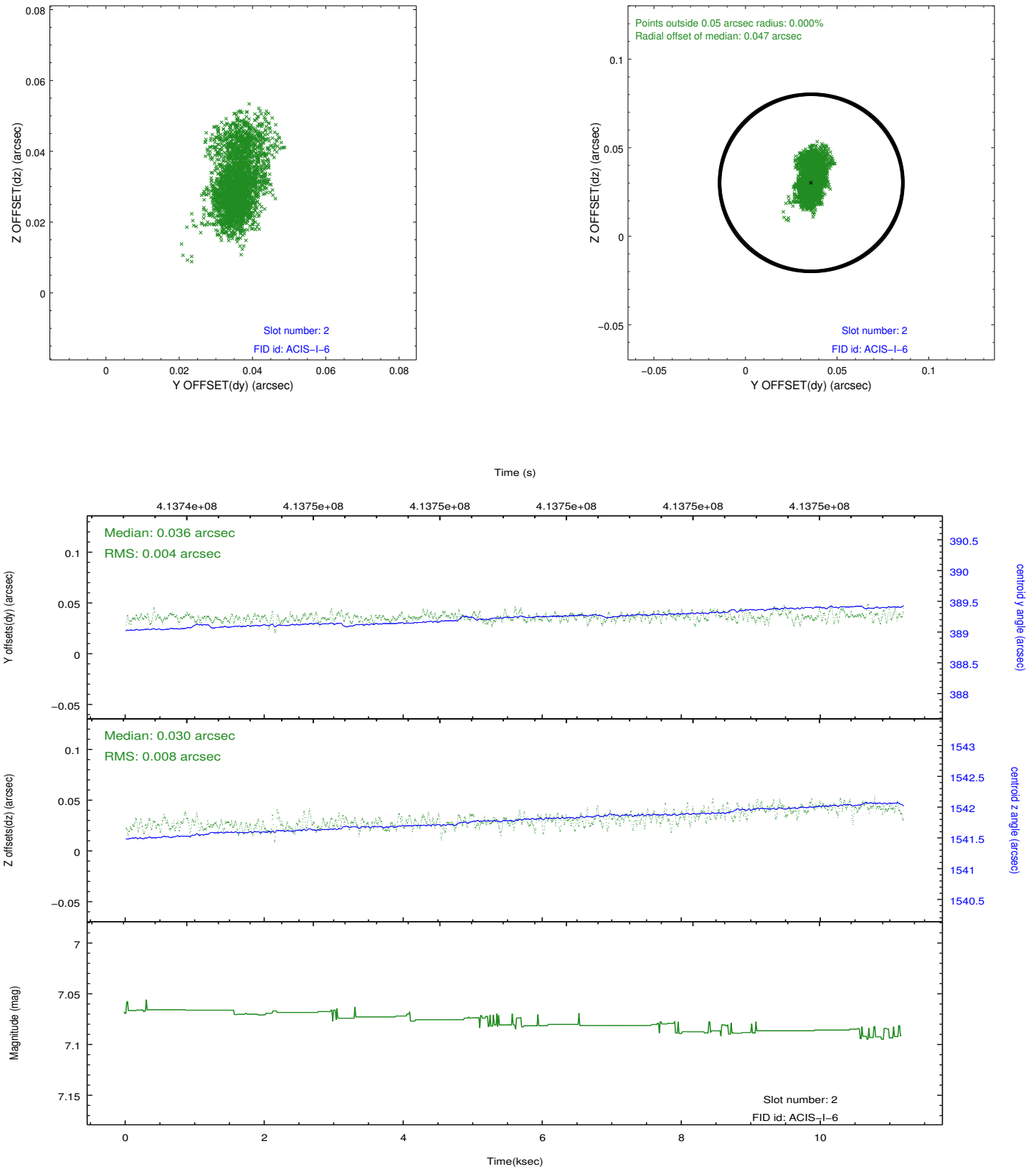
2.5.1 Slot 0



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)	2012.02.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.051500084996

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.