

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12683 - L2 Version 2
Chandra X-Ray Center

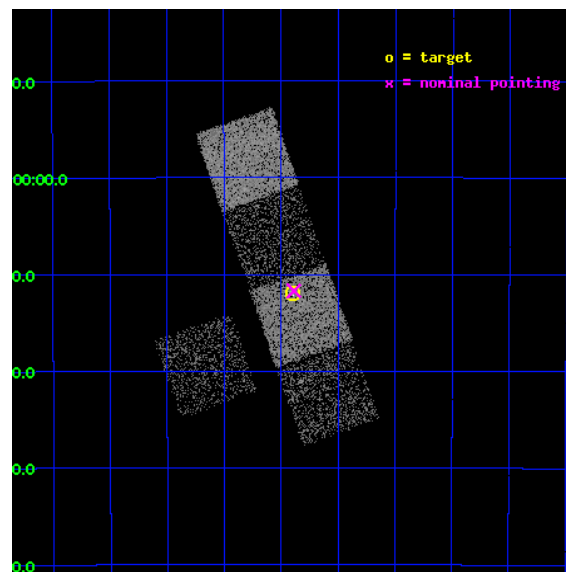
L2 Processing Date : Feb 9 2012

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1 Front

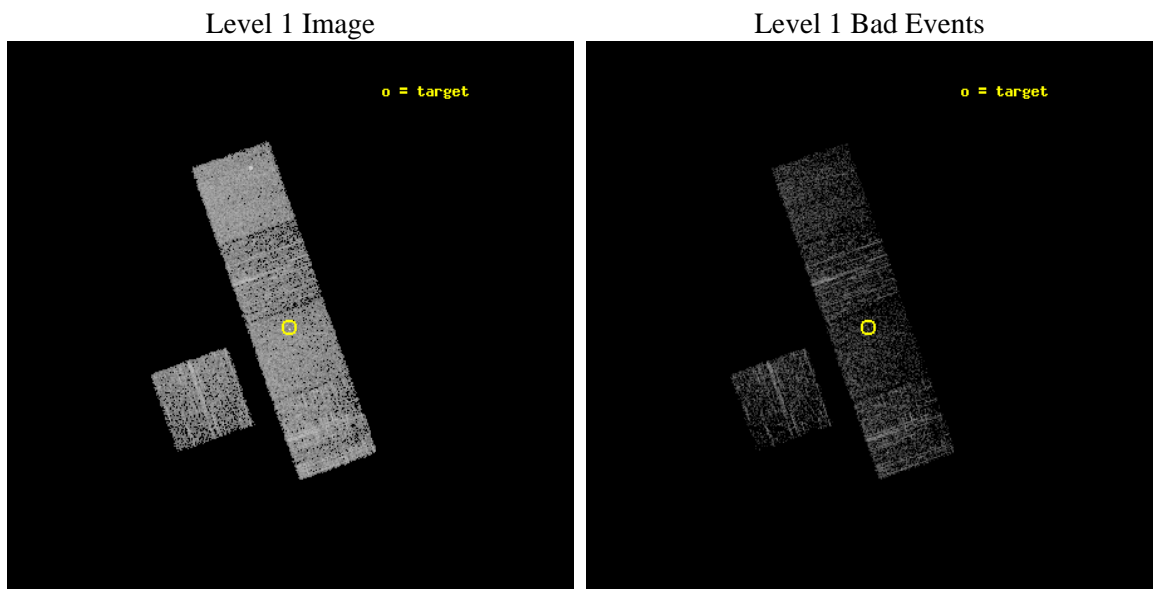
seq_num	501516	Sequence number
obs_id	12683	Observation id
title	Completing Identification of the Nearest and Brightest Neutron Stars	
observer	Prof. Derek Fox	Principal investigator
object	1RXSJ173253.6-371200	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	263.223333	Observer's specified target RA [deg]
dec_targ	-37.2	Observer's specified target Dec [deg]
ra_nom	263.22198273698	Nominal RA [deg]
dec_nom	-37.195120088716	Nominal Dec [deg]
roll_nom	70.601422798694	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2039.8000156879	Sum of GTIs [s]
livetime	2013.1485268041	Livetime [s]
ontime3	2039.8000156879	Sum of GTIs [s]
ontime5	2039.8000156879	Sum of GTIs [s]
ontime6	2039.8000156879	Sum of GTIs [s]
ontime7	2039.8000156879	Sum of GTIs [s]
ontime8	2039.8000156879	Sum of GTIs [s]
l2events	20982	Number of level 2 events



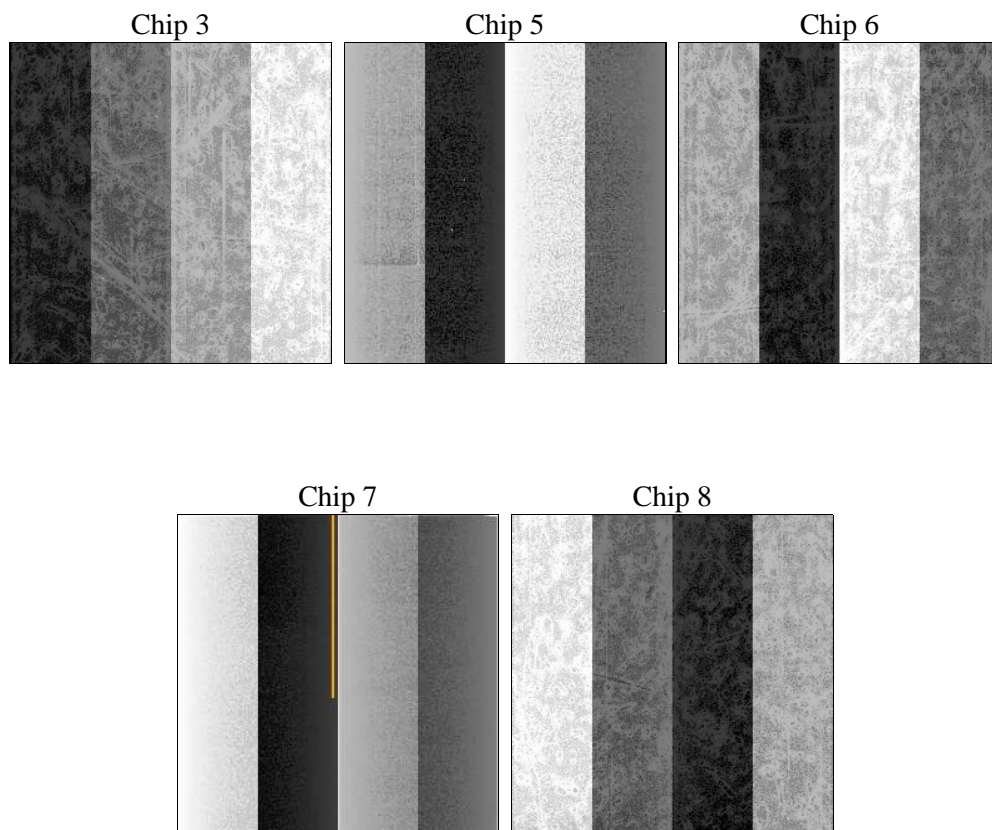
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	2000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	2039.8000156879	Sum of GTIs [s]
caldsver	4.4.7	 	ontime3	2039.8000156879	Sum of GTIs [s]
date	2012-02-09T14:31:07	Date and time of file creation	ontime5	2039.8000156879	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	2039.8000156879	Sum of GTIs [s]
			ontime7	2039.8000156879	Sum of GTIs [s]
			ontime8	2039.8000156879	Sum of GTIs [s]
			l1events	81304	Number of level 1 events

2.1.4 Events

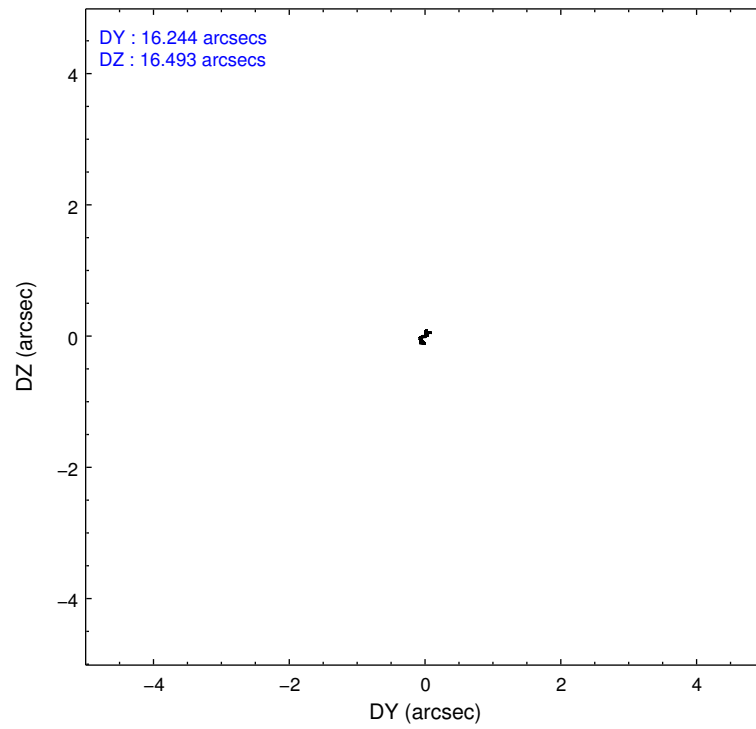
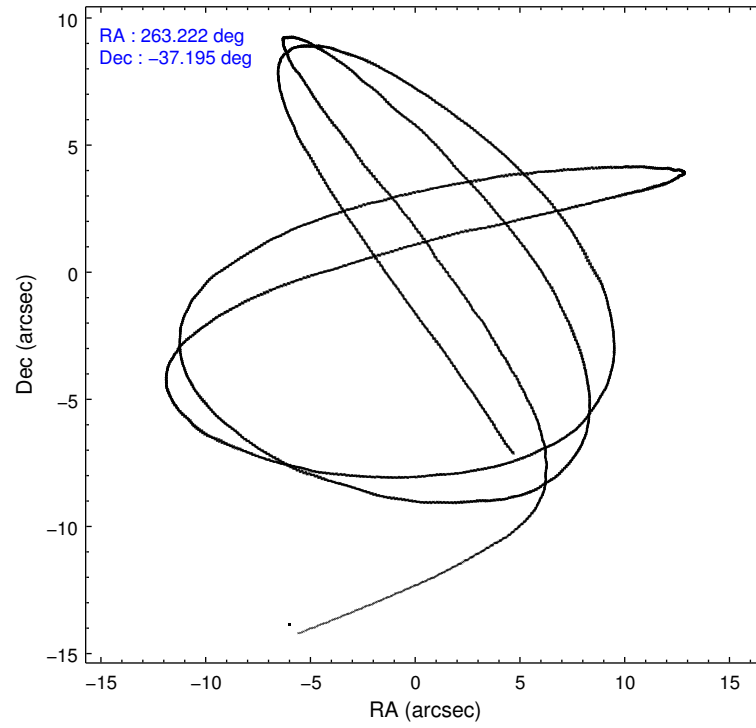
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	12487	20311	13599	16549	18358
rejected events	11112	10511	11977	9047	13652
rejected %	88%	51%	88%	54%	74%

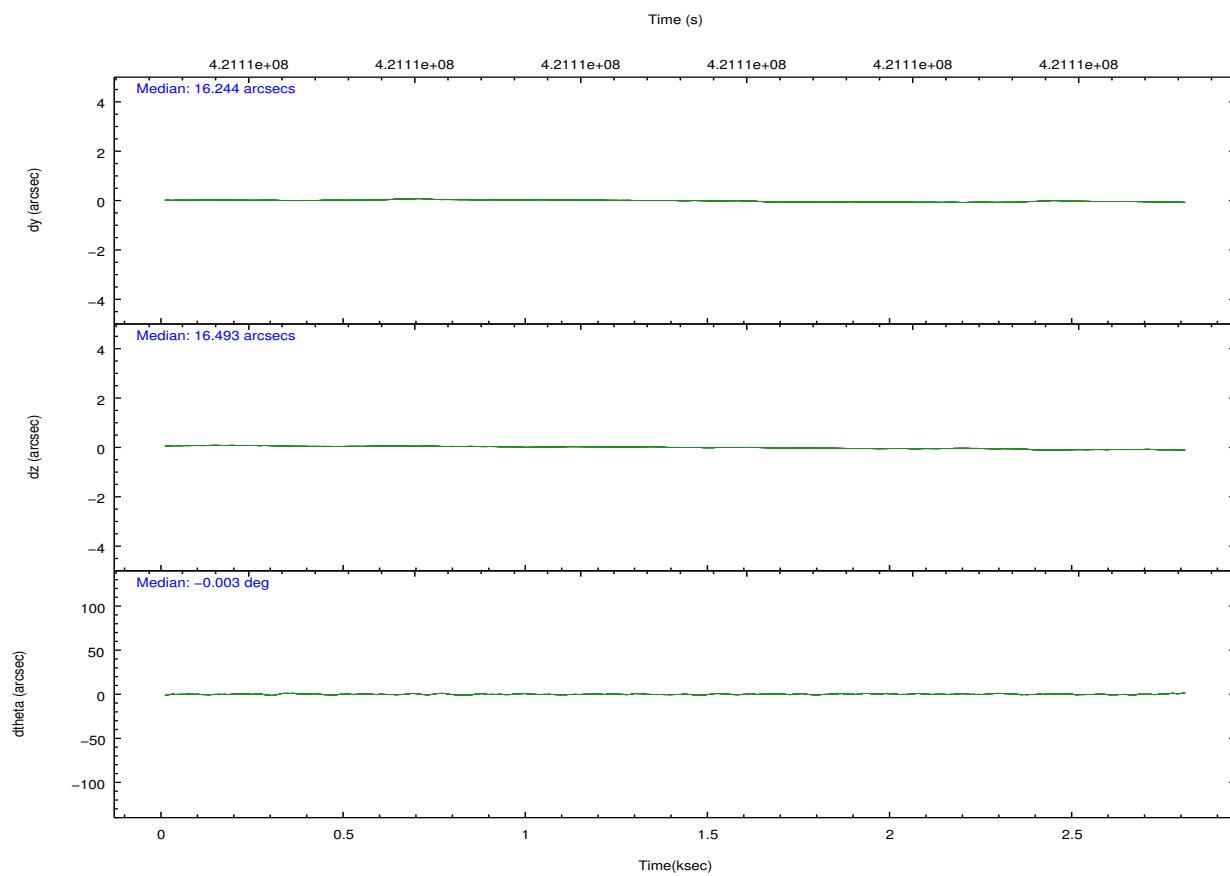
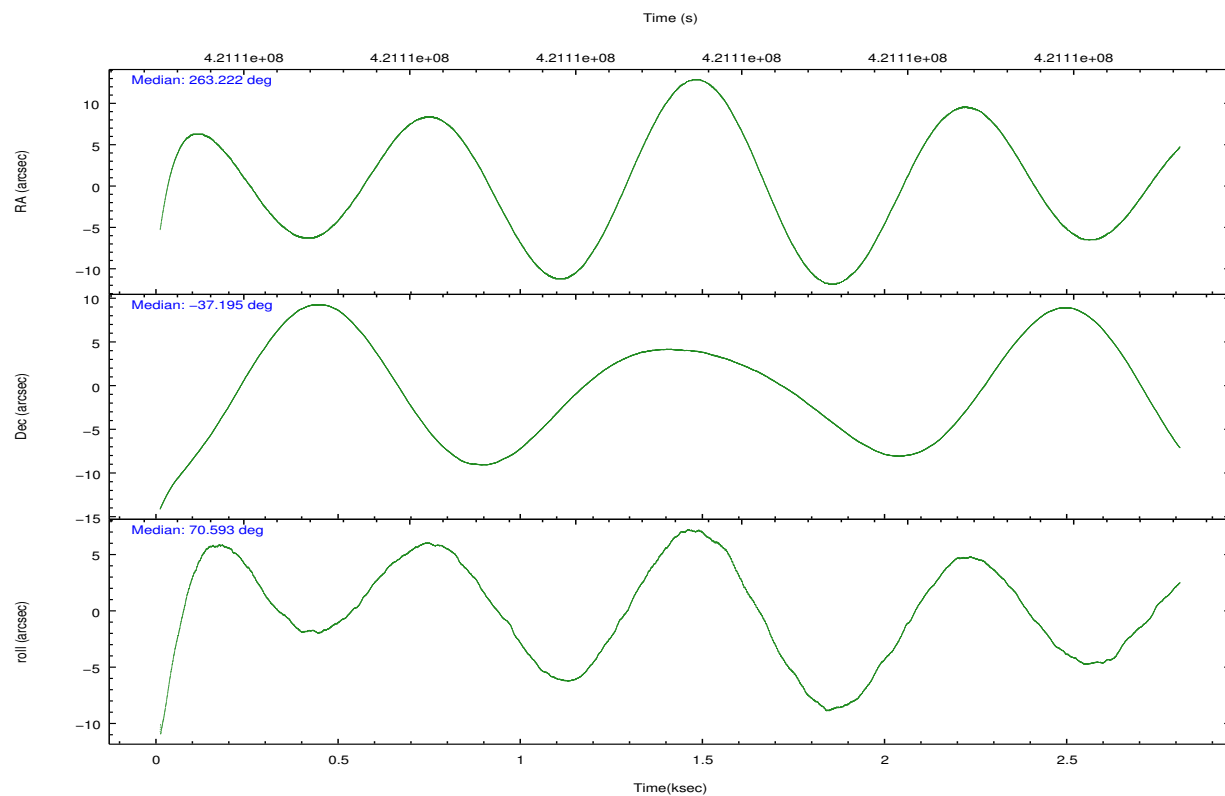
	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	518	792	577	692	1442
	4%	3%	4%	4%	7%
grade 1 events	5	38	4	16	15
	0%	0%	0%	0%	0%
grade 2 events	278	2962	360	1565	1126
	2%	14%	2%	9%	6%
grade 3 events	149	350	152	590	441
	1%	1%	1%	3%	2%
grade 4 events	137	360	174	650	453
	1%	1%	1%	3%	2%
grade 5 events	649	1535	619	1734	850
	5%	7%	4%	10%	4%
grade 6 events	294	5356	359	4012	1275
	2%	26%	2%	24%	6%
grade 7 events	10457	8918	11354	7290	12756
	83%	43%	83%	44%	69%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-35678	ACIS-35678	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	263.228809	263.2219827369764	CCD I2 on	N	N
[deg] Pointing Dec	-37.222070	-37.195120088716	CCD I3 on	Y	Y
[deg] Pointing Roll	70.448950	70.60142279869375	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O1	Y
[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)	421106187.184000	421104268.93592	CCD S5 on	N	N
Observation start date	2011-05-06T21:55:21	2011-05-06T21:24:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	421108187.184000	421109177.14867	On-chip summing requested	N	N
Observation end date	2011-05-06T22:28:41	2011-05-06T22:46:17	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



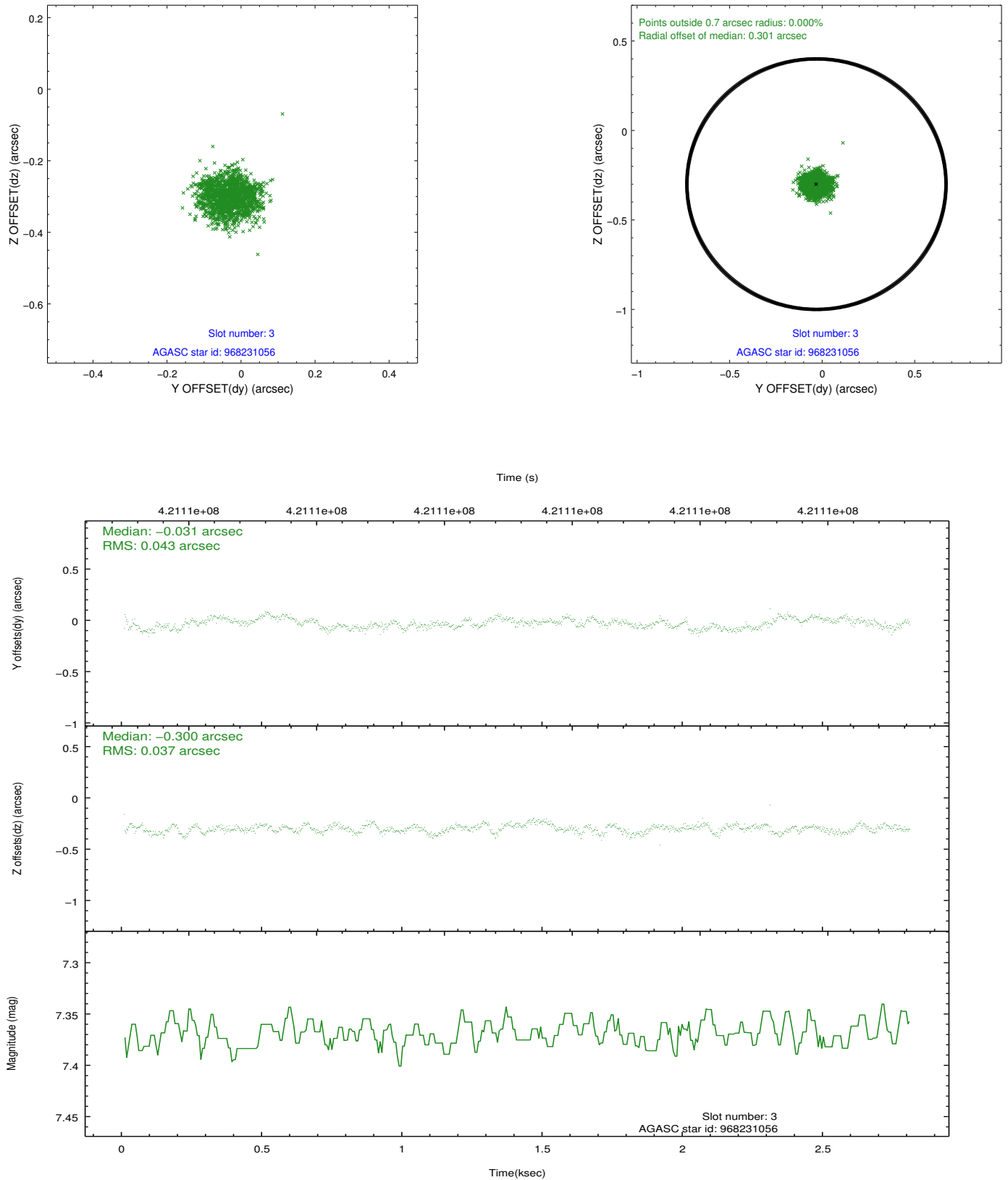


Slot Statistics

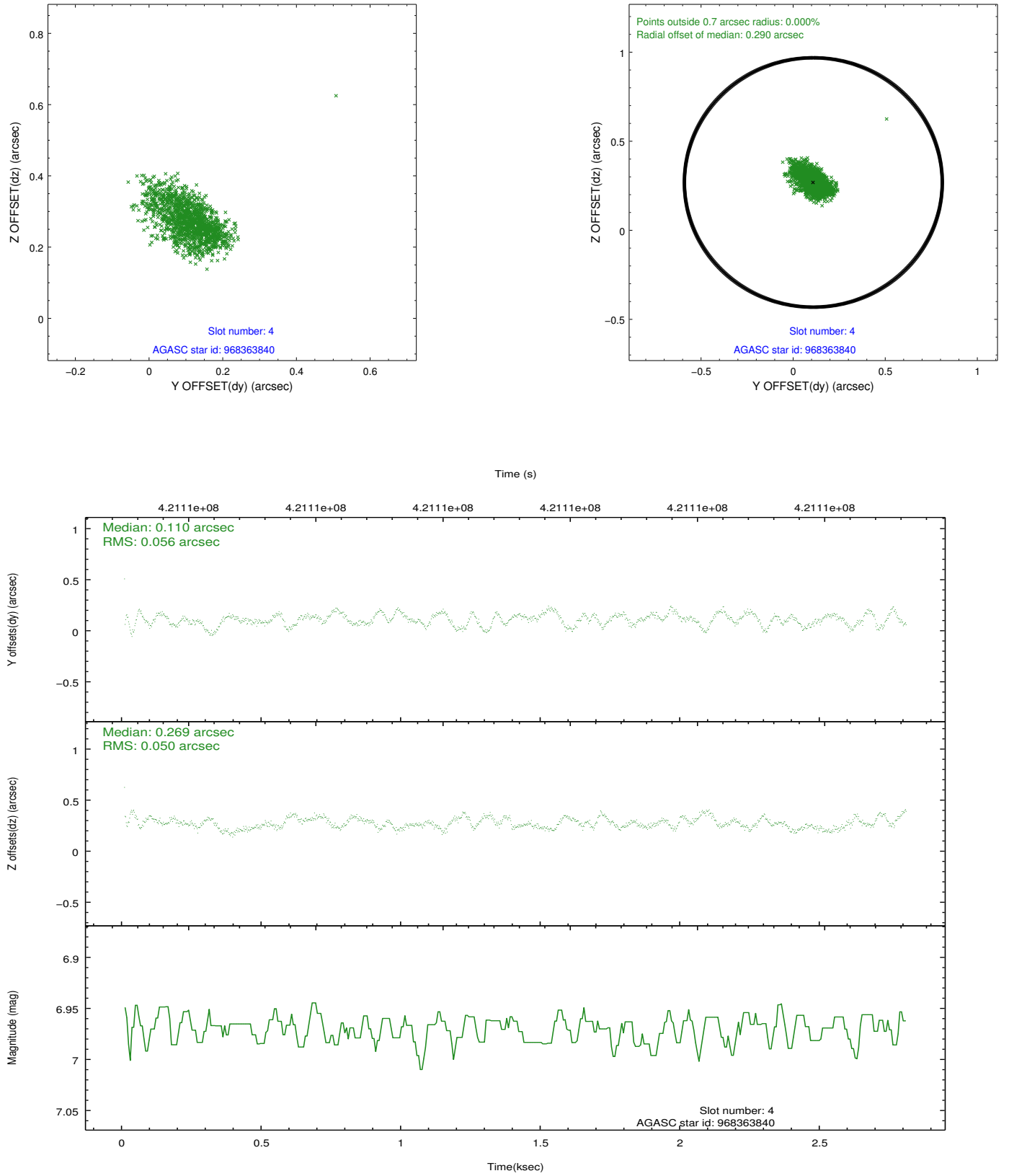
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	6.96	683	0.083	-0.062	0.007	0.010	0.000000	0.000000	926.79	-1733.64
1	FID	ACIS-S-2	6.89	683	-0.164	-0.019	0.005	0.009	0.000000	0.000000	-768.09	-1740.44
2	FID	ACIS-S-4	6.97	683	0.055	0.087	0.005	0.009	0.000000	0.000000	2143.05	168.22
3	GUIDE	968231056	7.37	1367	-0.031	-0.300	0.062	0.091	262.430979	-37.276589	-959.55	2084.19
4	GUIDE	968363840	6.97	1366	0.110	0.269	0.078	0.131	263.929451	-37.439876	-76.69	-2150.47
5	GUIDE	968366064	8.58	1367	-0.288	0.105	0.070	0.114	263.858639	-36.789303	2069.67	-1193.10
6	GUIDE	968233024	8.74	1364	0.092	-0.143	0.119	0.188	262.515153	-37.053677	-121.19	2131.27
7	GUIDE	1033379272	8.64	1366	0.119	0.058	0.072	0.126	262.586189	-37.716765	-2297.00	1127.63

2.4 Star Slots

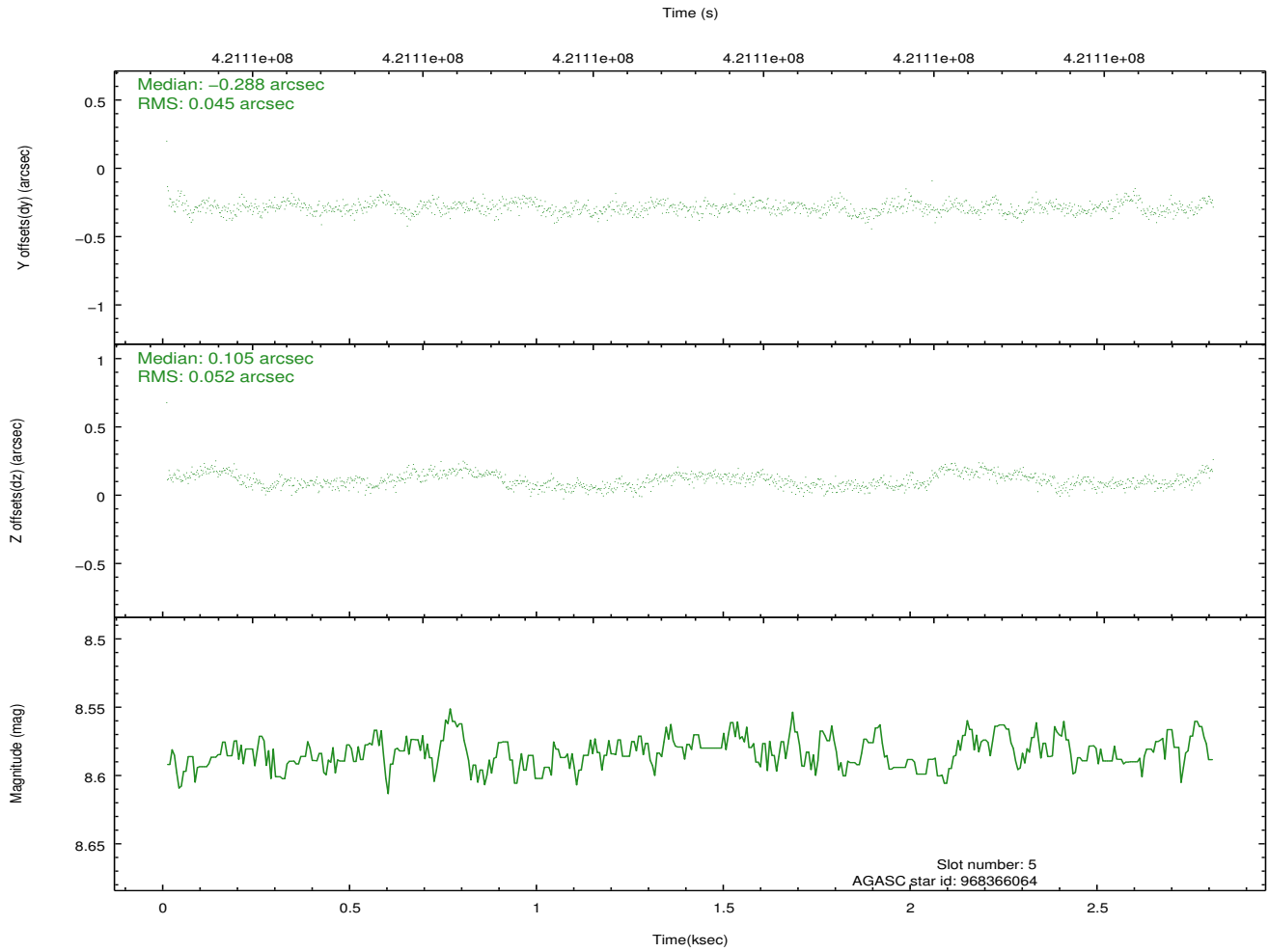
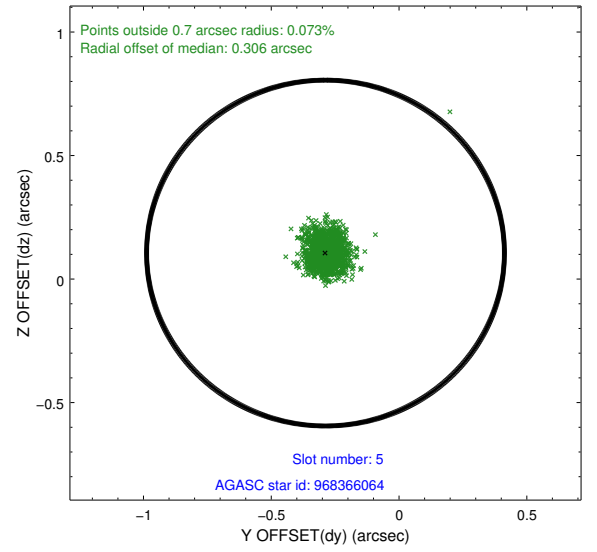
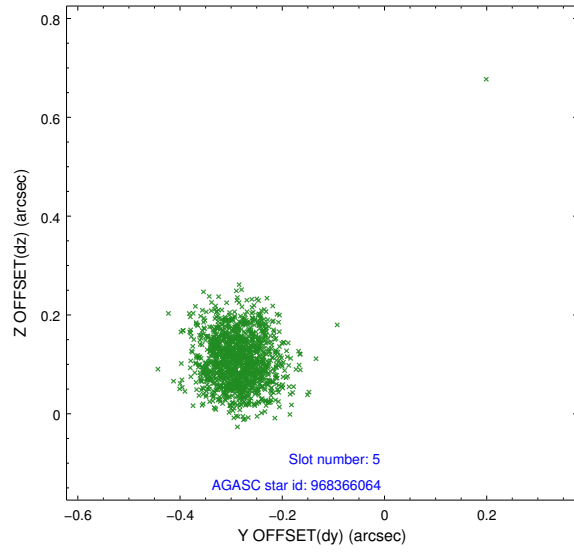
2.4.1 Slot 3



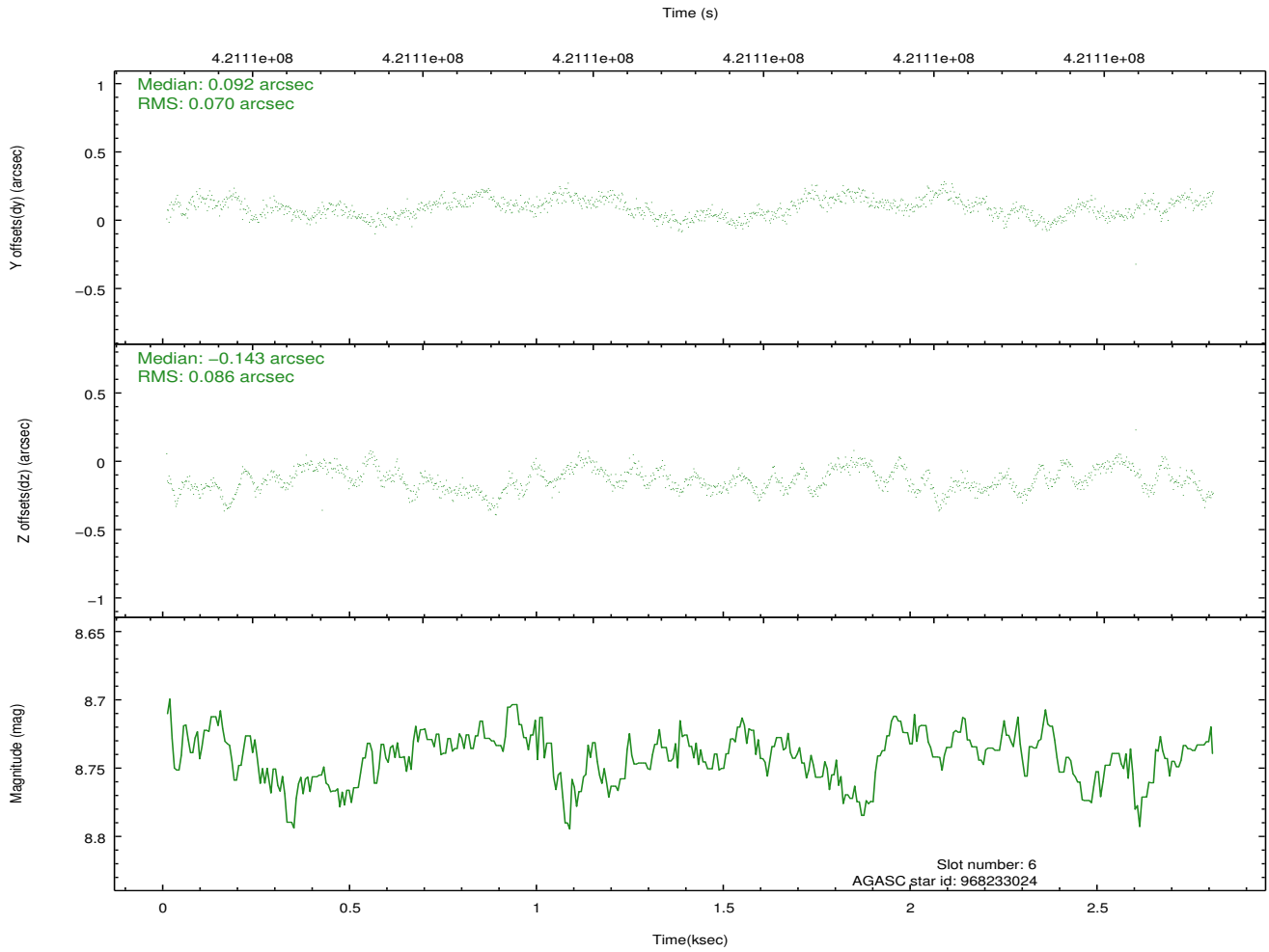
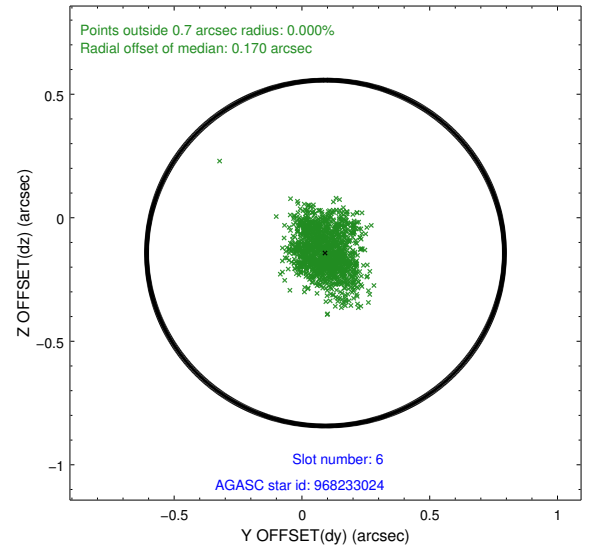
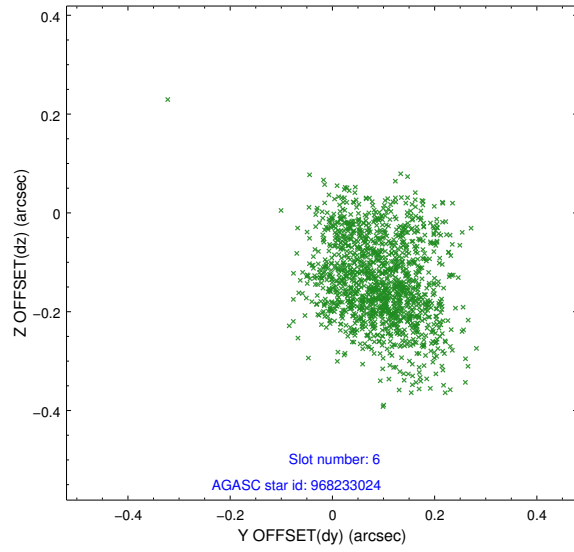
2.4.2 Slot 4



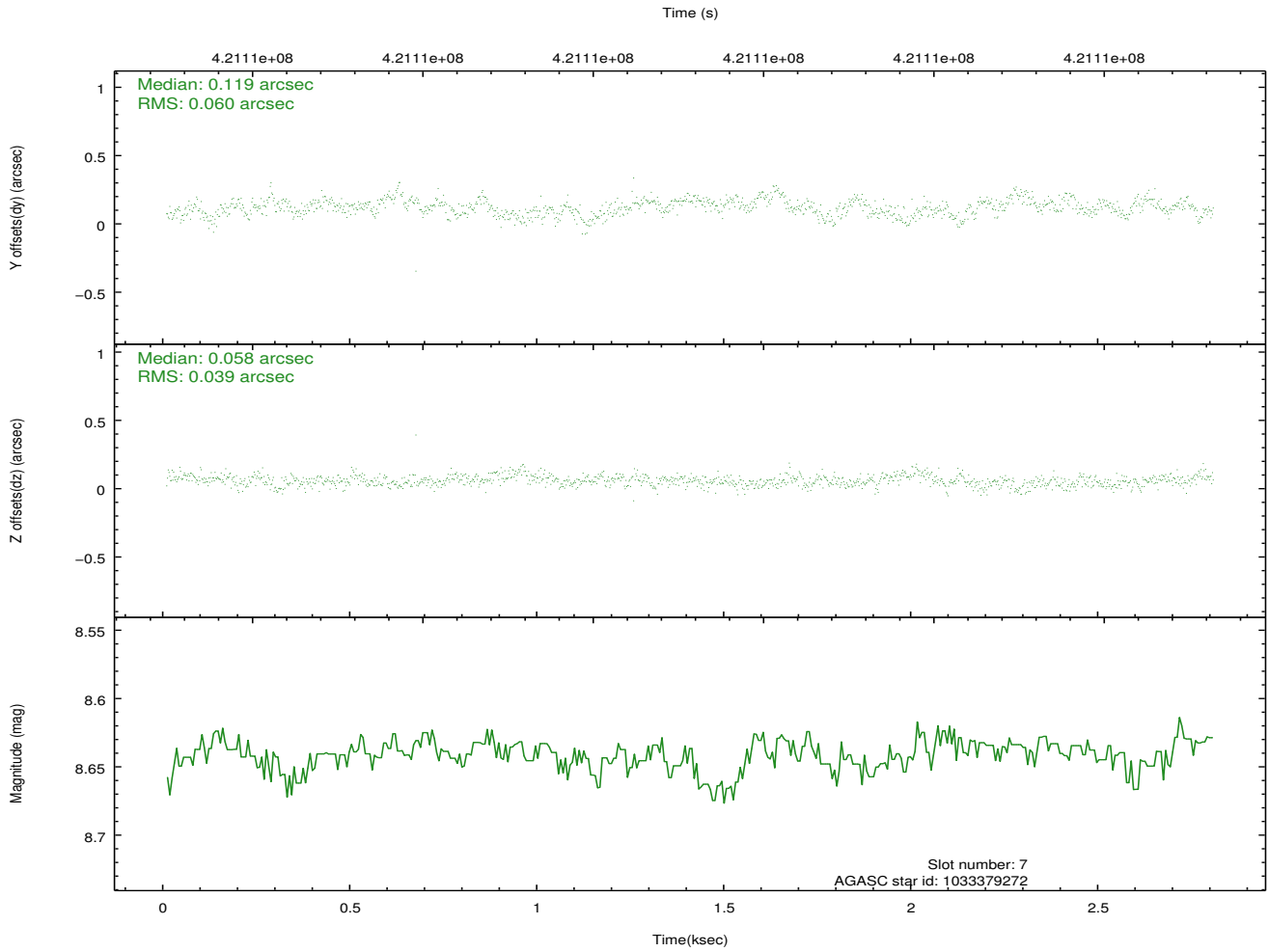
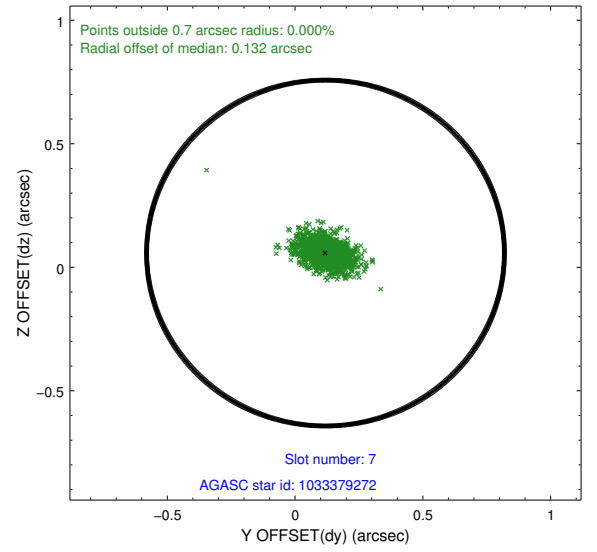
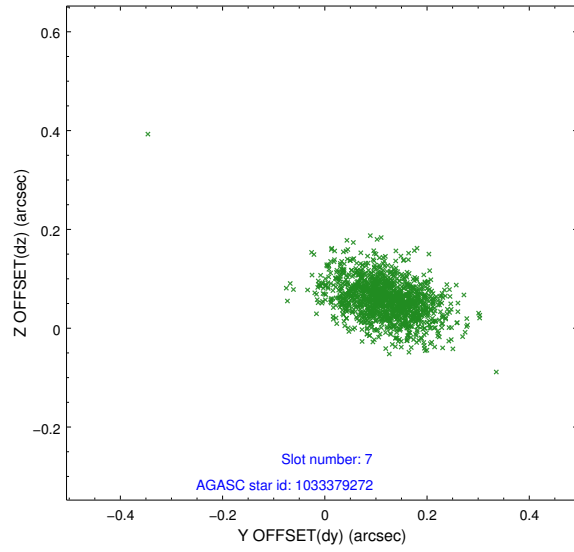
2.4.3 Slot 5



2.4.4 Slot 6

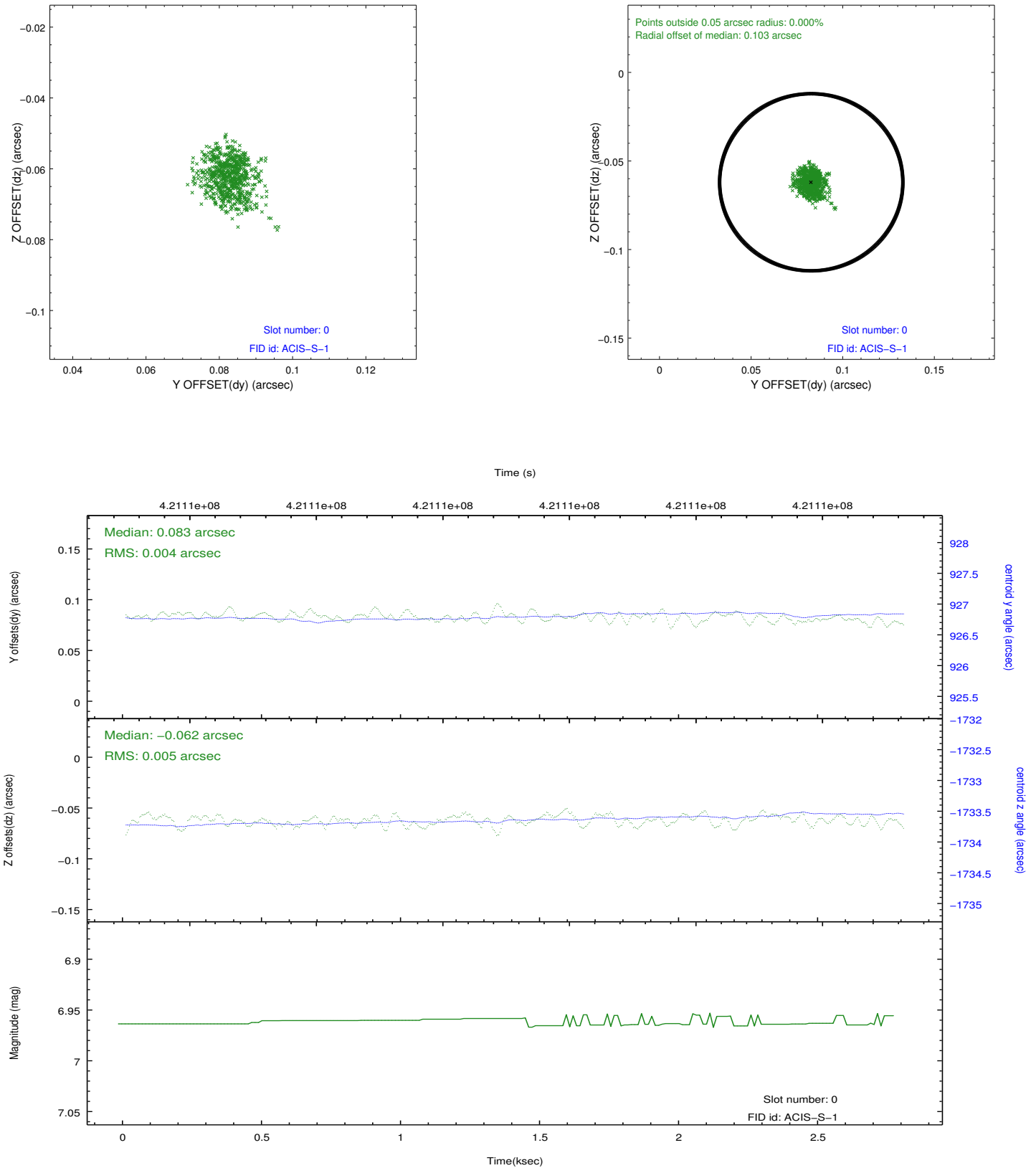


2.4.5 Slot 7

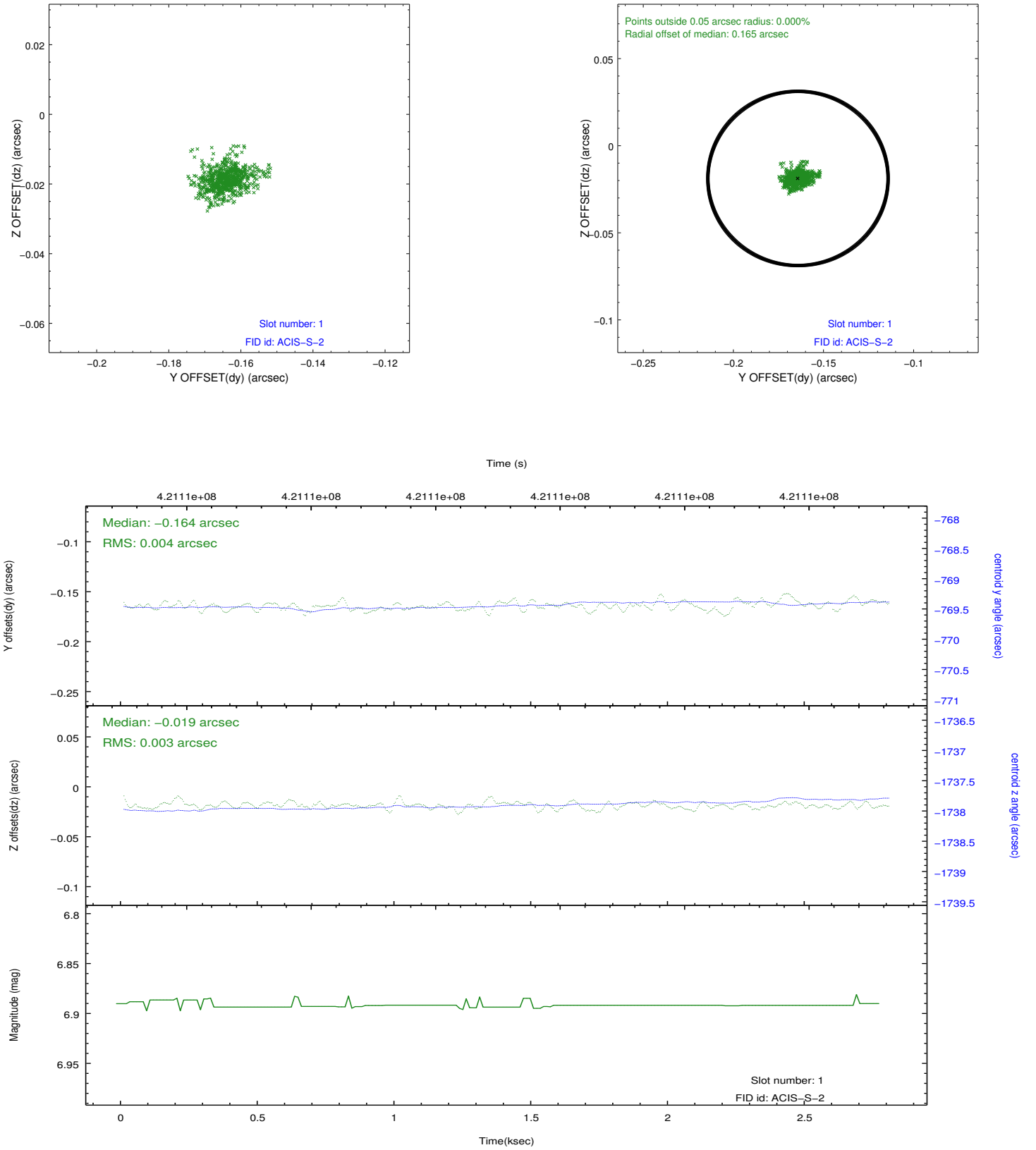


2.5 FID Slots

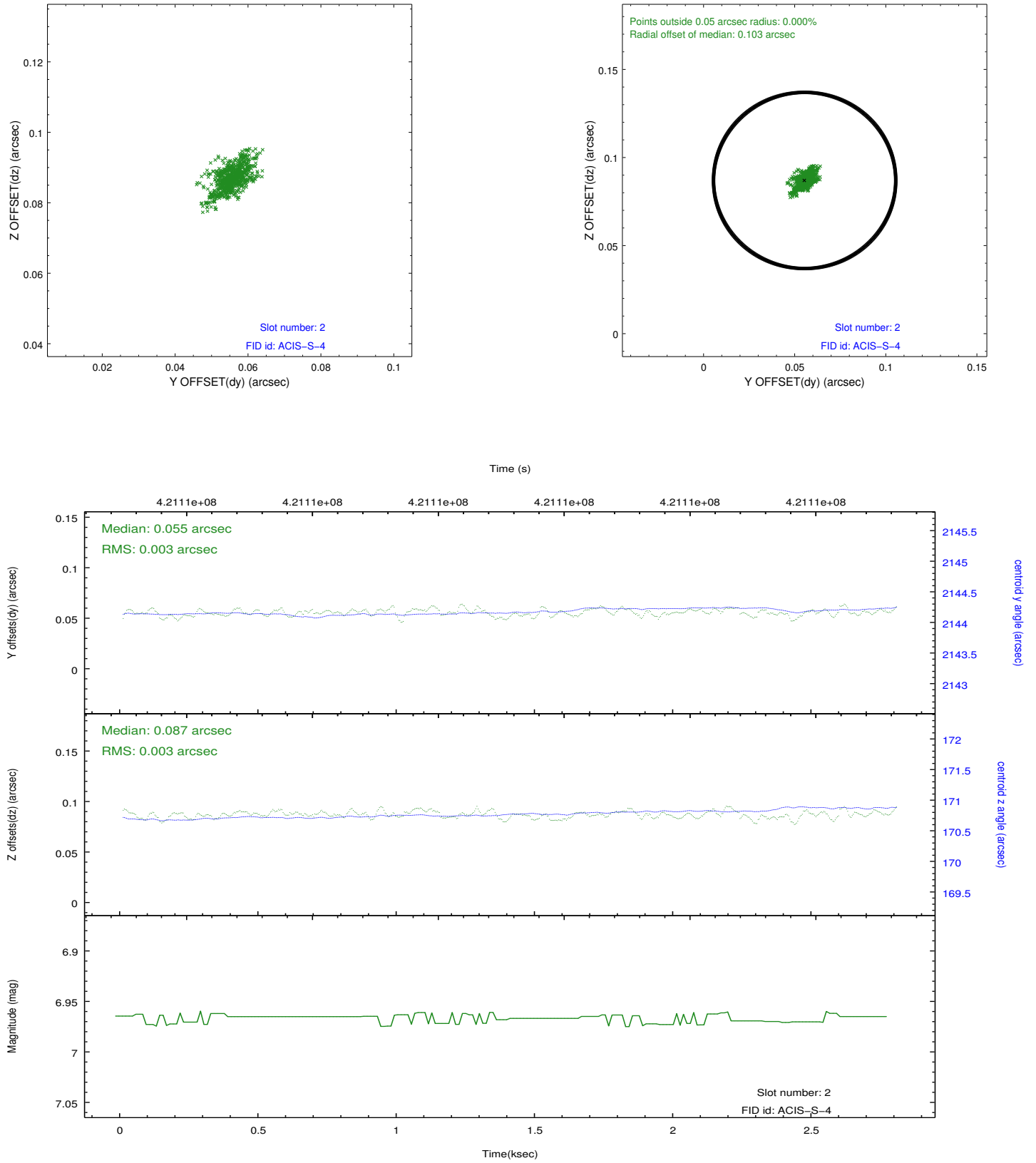
2.5.1 Slot 0



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)	2012.02.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.0398000156879

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.