

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12176 - L2 Version 2
Chandra X-Ray Center

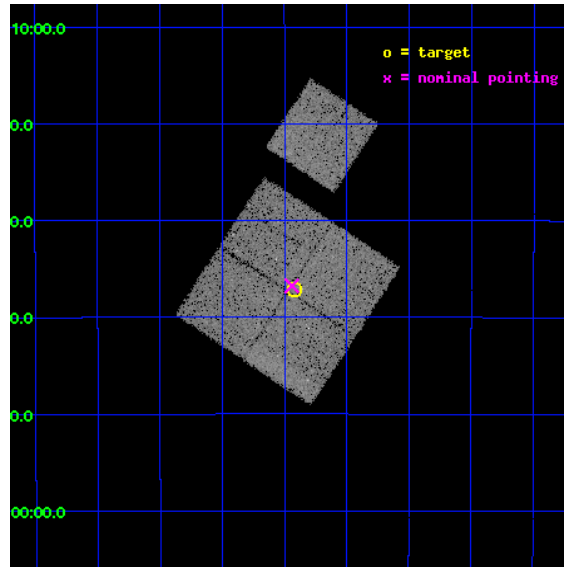
L2 Processing Date : Feb 6 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

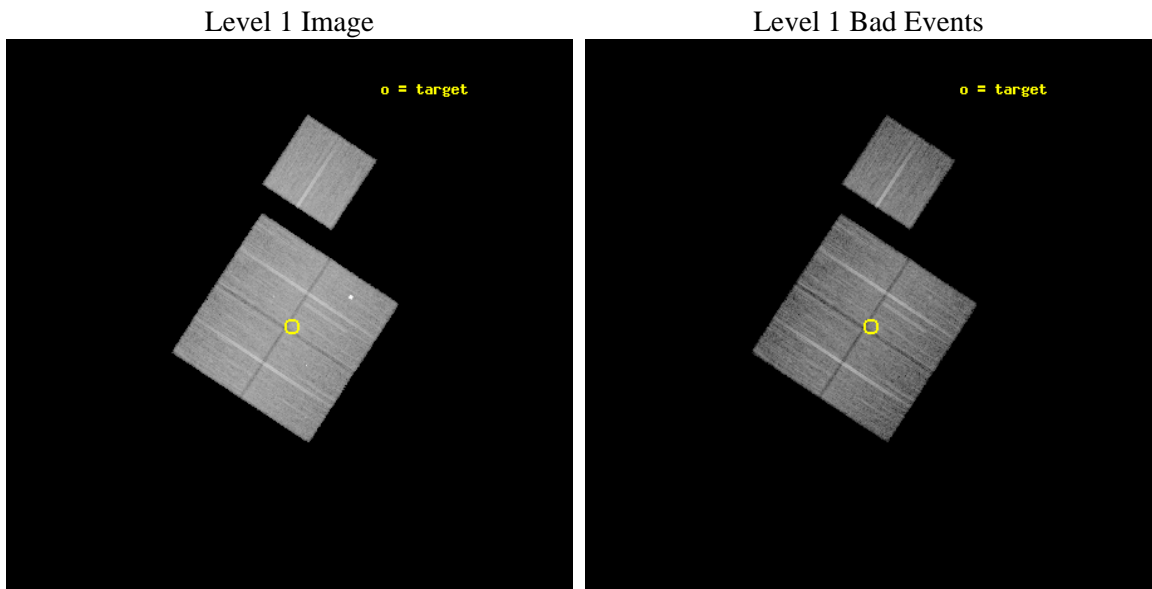
seq_num	800942	Sequence number
obs_id	12176	Observation id
title	CLoGS I. - A Complete Local-volume Group Survey	Proposal title
observer	Dr Stephen Murray	Principal investigator
object	LGG351	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	201.979167	Observer's specified target RA [deg]
dec_targ	-29.618889	Observer's specified target Dec [deg]
ra_nom	201.98504627556	Nominal RA [deg]
dec_nom	-29.612635430452	Nominal Dec [deg]
roll_nom	33.29597614904	Nominal Roll [deg]
revision	2	Processing version of data
ontime	20044.003350079	Sum of GTIs [s]
livetime	19782.11369013	Livetime [s]
ontime0	20047.021250665	Sum of GTIs [s]
ontime1	20053.344361067	Sum of GTIs [s]
ontime2	20047.103349984	Sum of GTIs [s]
ontime3	20044.003350079	Sum of GTIs [s]
ontime6	20053.26228106	Sum of GTIs [s]
l2events	65844	Number of level 2 events



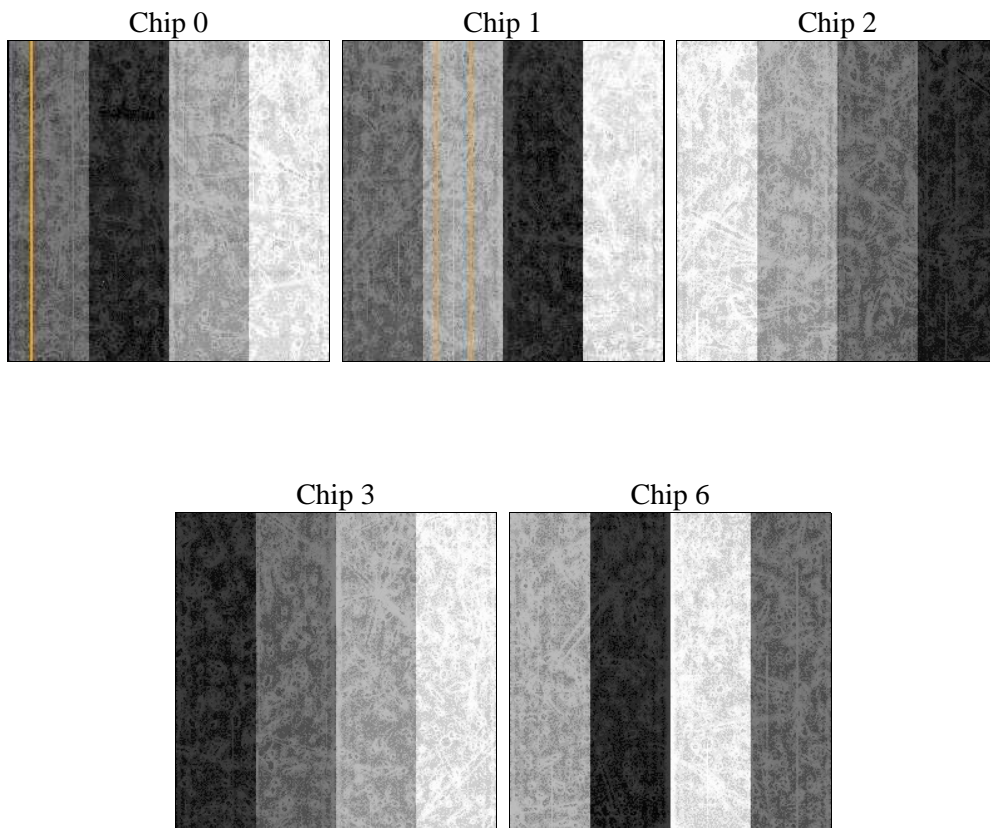
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	20044.003350079	Sum of GTIs [s]
caldsver	4.4.7	 	ontime0	20047.021250665	Sum of GTIs [s]
date	2012-02-06T22:03:40	Date and time of file creation	ontime1	20053.344361067	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	20047.103349984	Sum of GTIs [s]
			ontime3	20044.003350079	Sum of GTIs [s]
			ontime6	20053.26228106	Sum of GTIs [s]
			l1events	661967	Number of level 1 events

2.1.4 Events

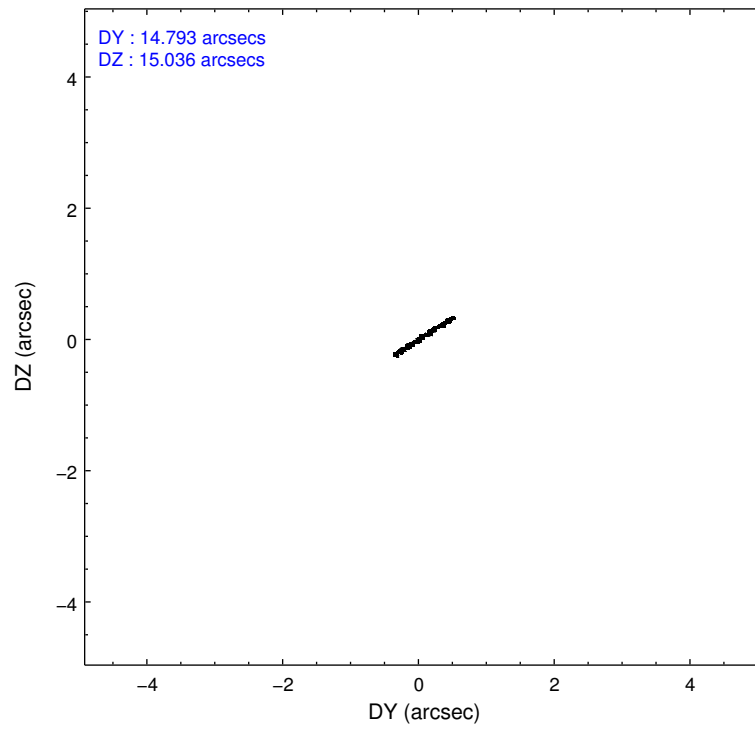
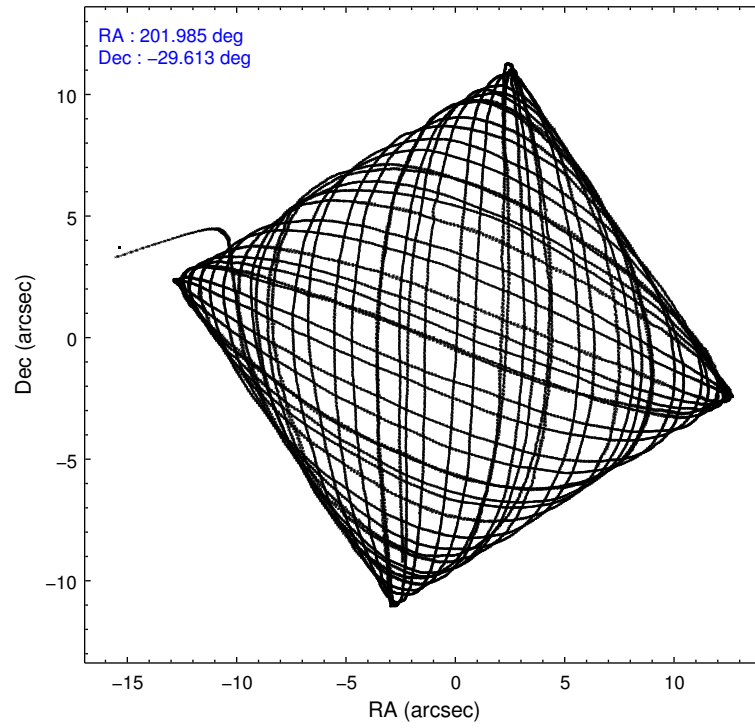
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	126745	124078	140027	141071	130046
rejected events	111421	106869	124626	120493	114410
rejected %	87%	86%	89%	85%	87%

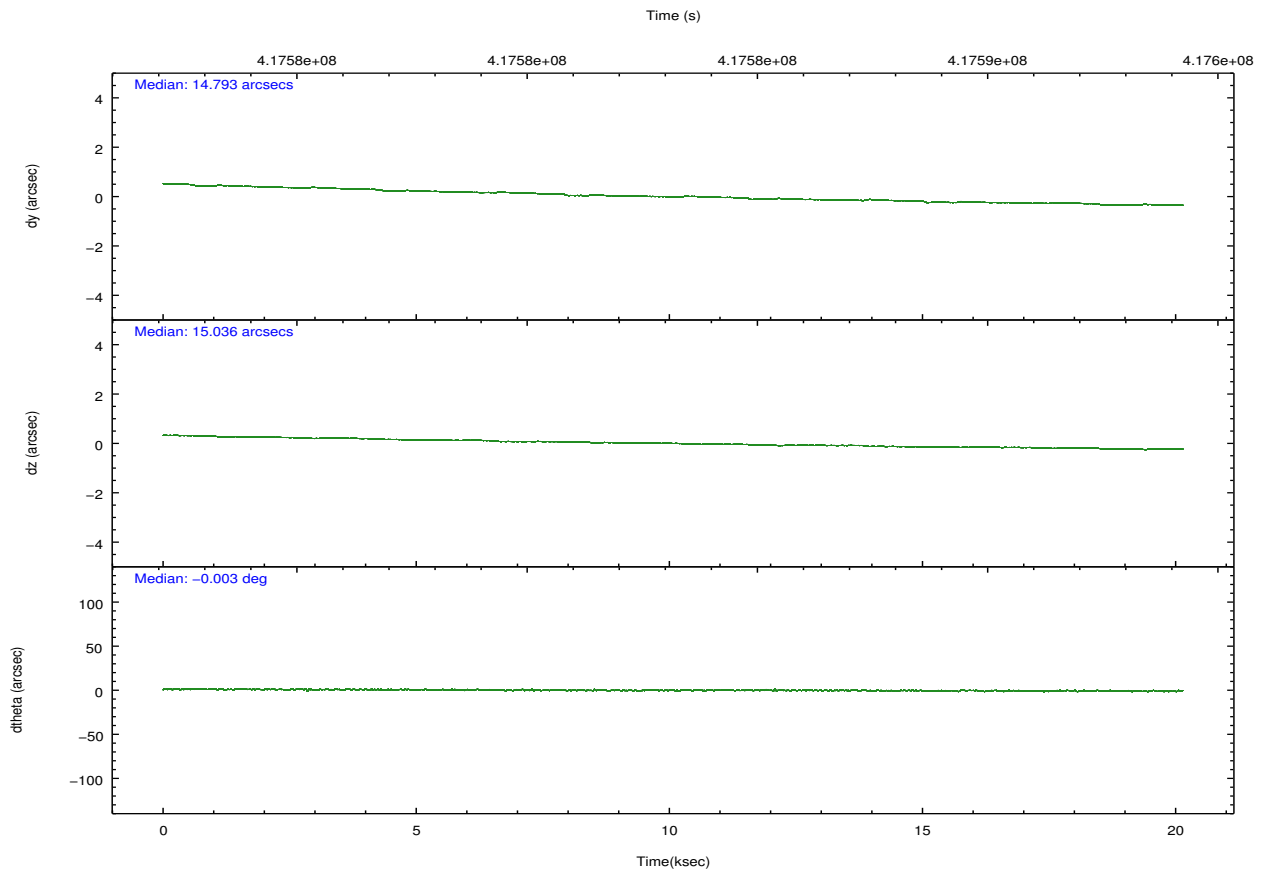
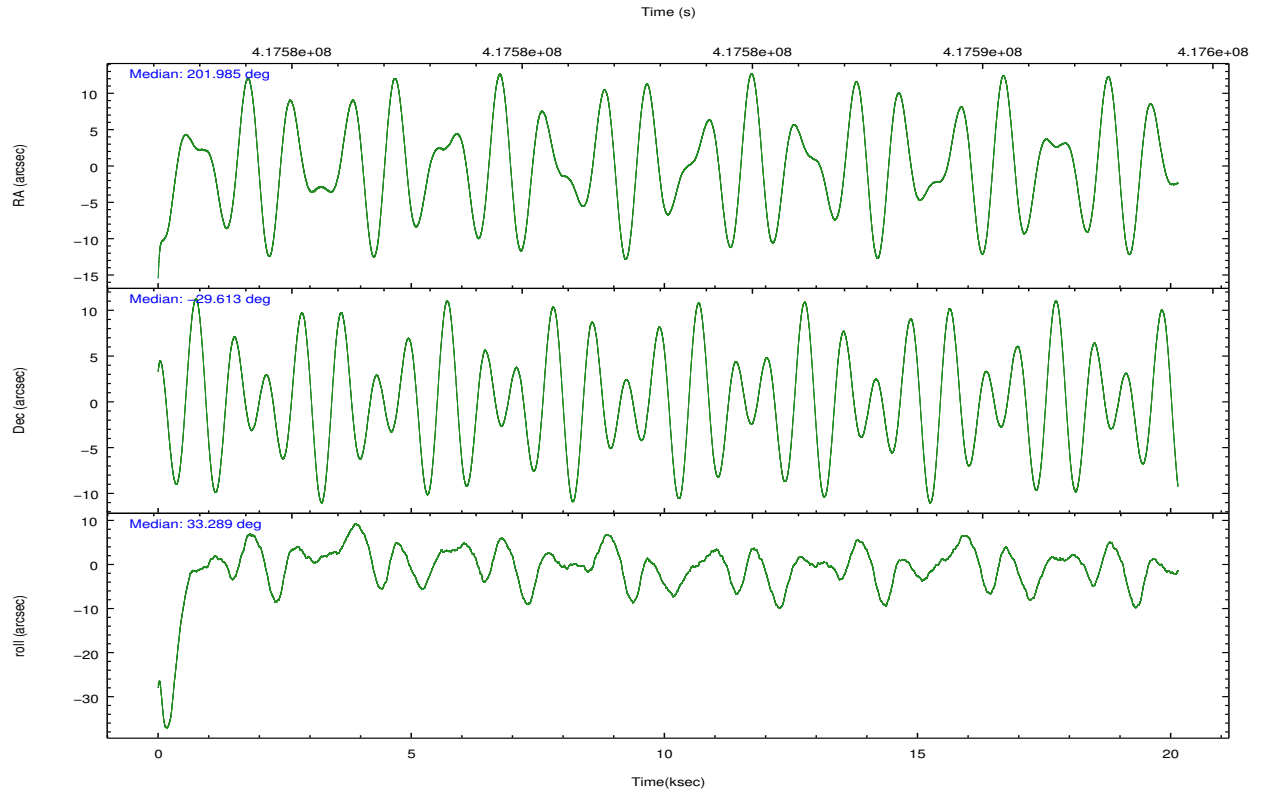
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	5315	6300	5575	11360	5447
	4%	5%	3%	8%	4%
grade 1 events	73	66	88	115	68
	0%	0%	0%	0%	0%
grade 2 events	3617	4003	3781	3116	3550
	2%	3%	2%	2%	2%
grade 3 events	1678	1725	1586	1615	1658
	1%	1%	1%	1%	1%
grade 4 events	1614	1761	1607	1562	1625
	1%	1%	1%	1%	1%
grade 5 events	5752	6101	5518	6536	6253
	4%	4%	3%	4%	4%
grade 6 events	3103	3426	2857	2933	3362
	2%	2%	2%	2%	2%
grade 7 events	105593	100696	119015	113834	108083
	83%	81%	84%	80%	83%

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	201.970964	201.9850462755578	Subarray requested	NONE	NONE
[deg] Pointing Dec	-29.637264	-29.61263543045242	Alternating exposures requested	N	N
[deg] Pointing Roll	33.080320	33.29597614903972	[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	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	417573231.184000	417572212.54016			
Observation start date	2011-03-27T00:32:45	2011-03-27T00:16:52			
[s] Observation end time (MET)	417593231.184000	417593866.69128			
Observation end date	2011-03-27T06:06:05	2011-03-27T06:17:46			
Read mode	TIMED	TIMED			

2.3 Aspect



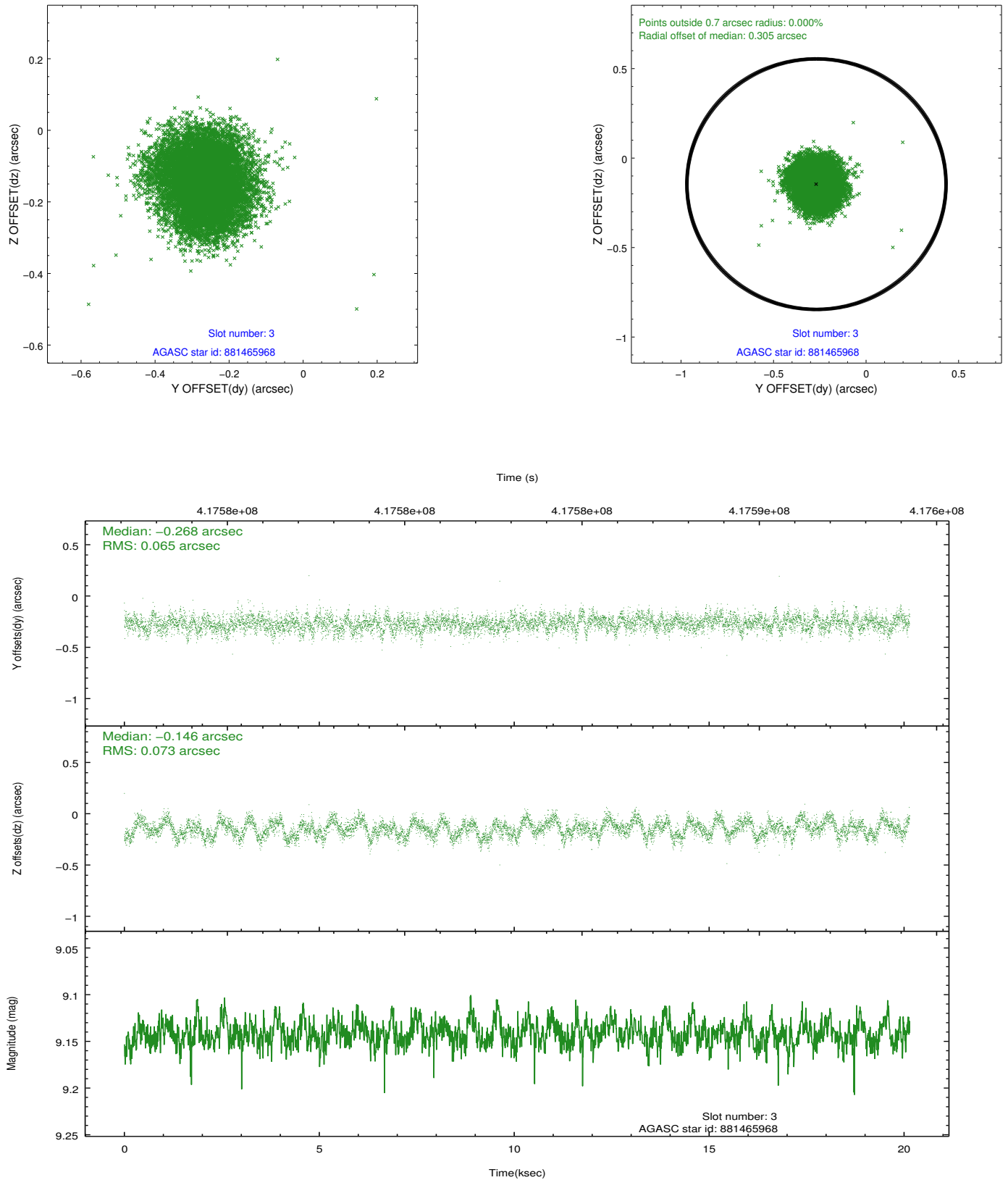


Slot Statistics

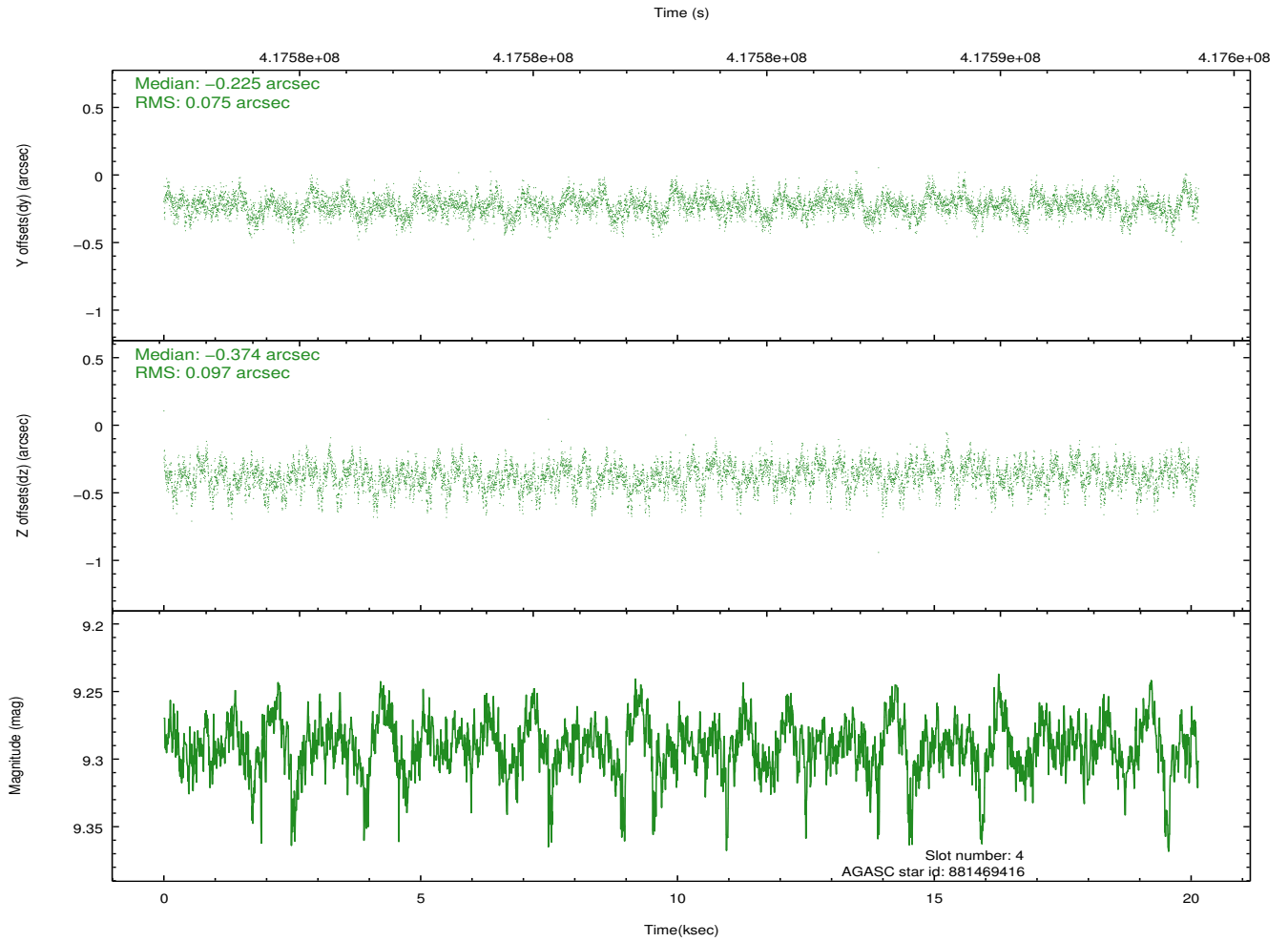
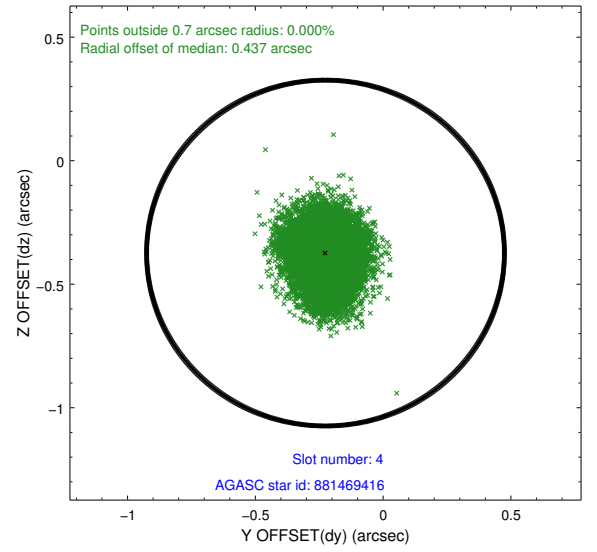
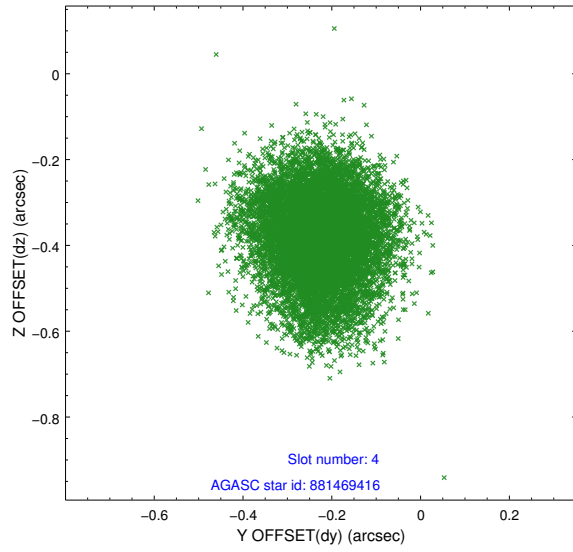
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.11	4913	0.046	-0.018	0.009	0.014	0.000000	0.000000	924.70	-838.65
1	FID	ACIS-I-5	7.11	4912	-0.233	0.042	0.009	0.015	0.000000	0.000000	-1823.60	1058.77
2	FID	ACIS-I-6	7.11	4913	0.097	0.046	0.008	0.014	0.000000	0.000000	390.07	1703.51
3	GUIDE	881465968	9.14	9815	-0.268	-0.146	0.105	0.163	202.485292	-29.187640	2236.03	471.15
4	GUIDE	881469416	9.29	9808	-0.225	-0.374	0.131	0.211	201.790251	-29.062401	652.96	2043.84
5	GUIDE	881475264	9.91	9817	0.257	0.308	0.216	0.313	201.527599	-29.916221	-1708.07	-88.44
6	GUIDE	952127304	7.99	9823	-0.024	0.155	0.087	0.133	202.300337	-30.160429	-169.31	-2138.78
7	GUIDE	952122976	9.45	9749	0.263	0.061	0.135	0.224	202.274547	-30.211405	-336.55	-2248.56

2.4 Star Slots

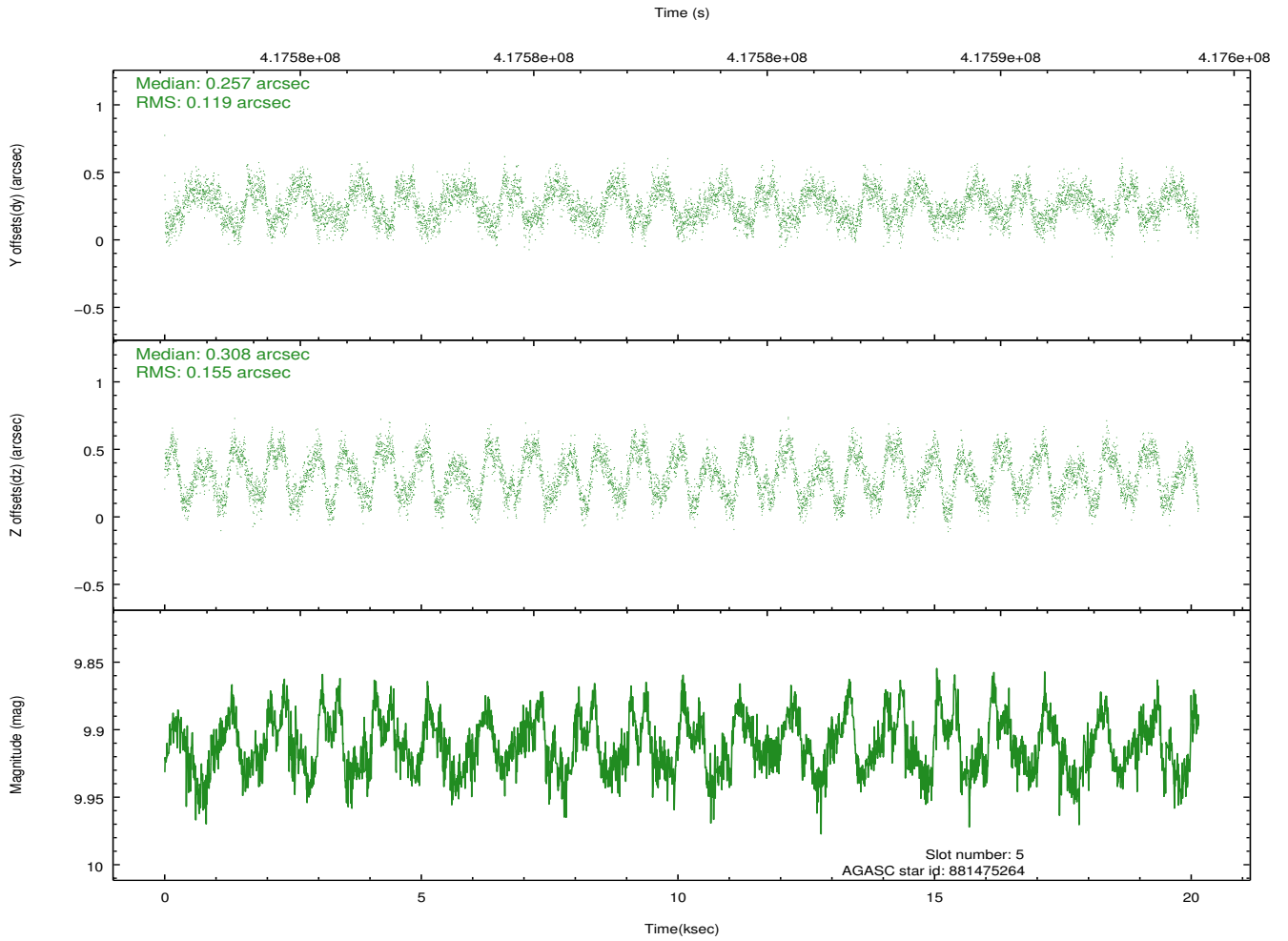
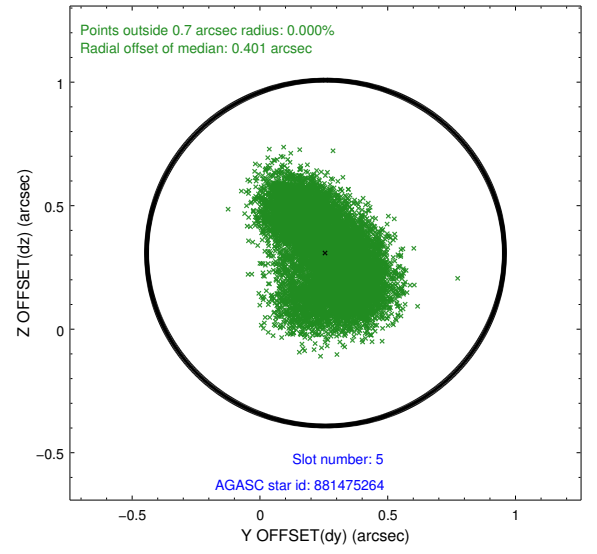
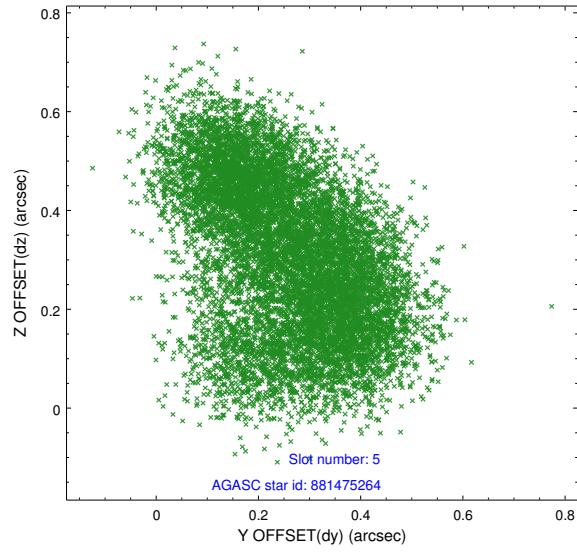
2.4.1 Slot 3



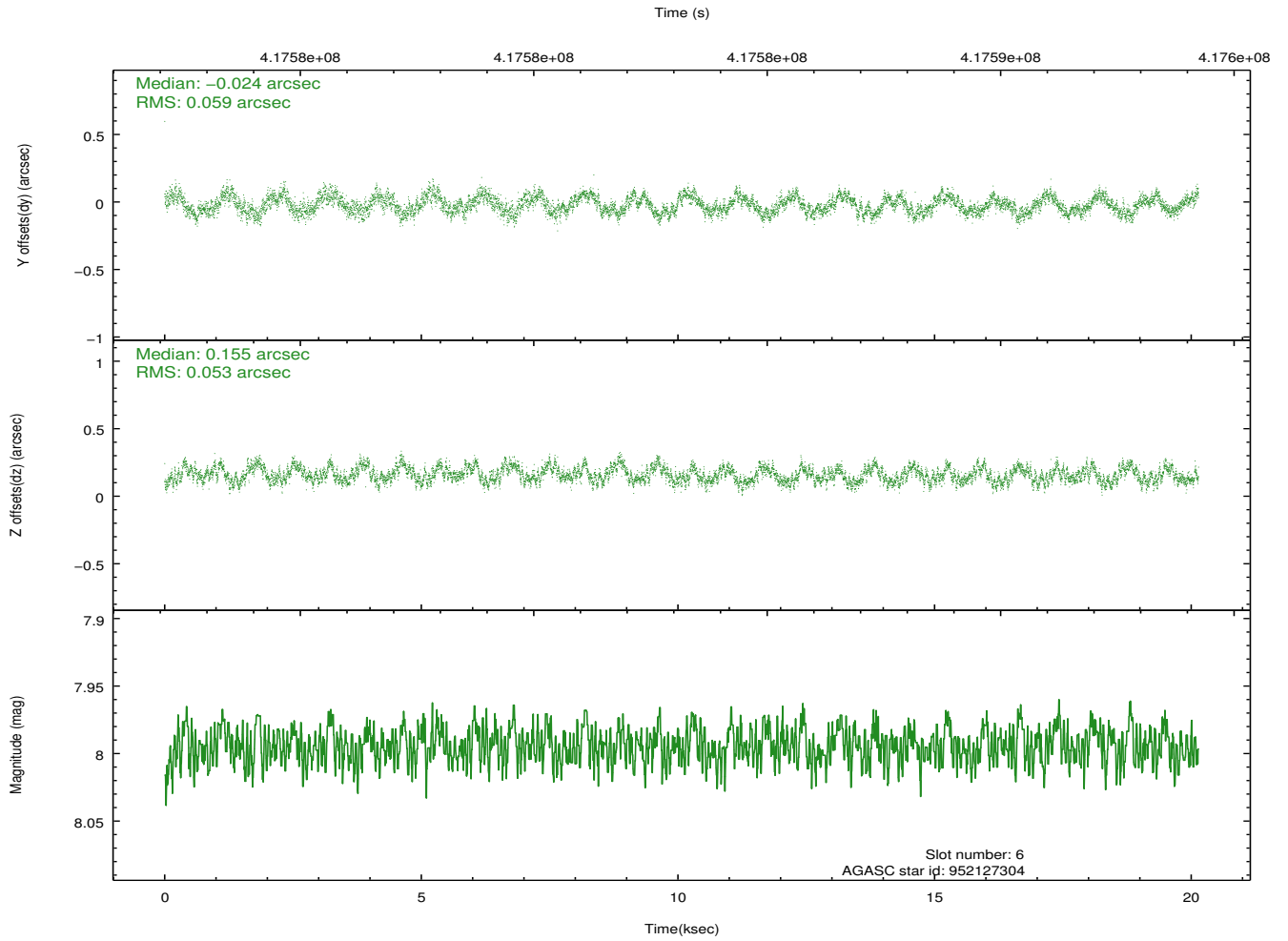
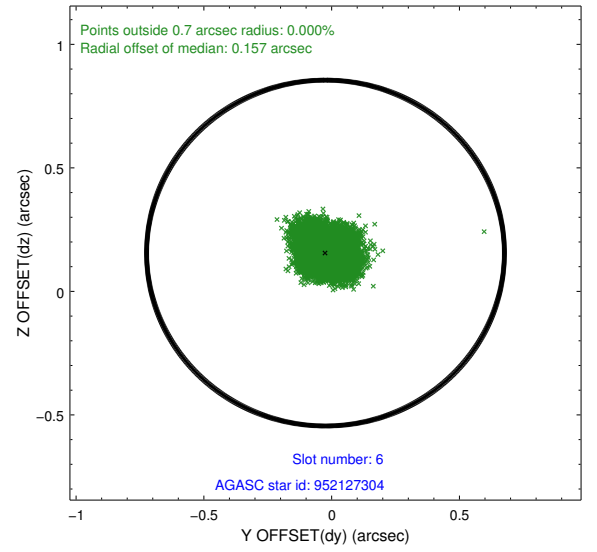
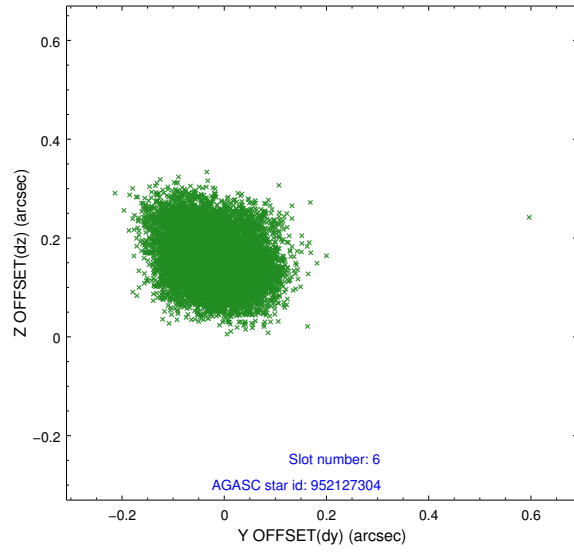
2.4.2 Slot 4



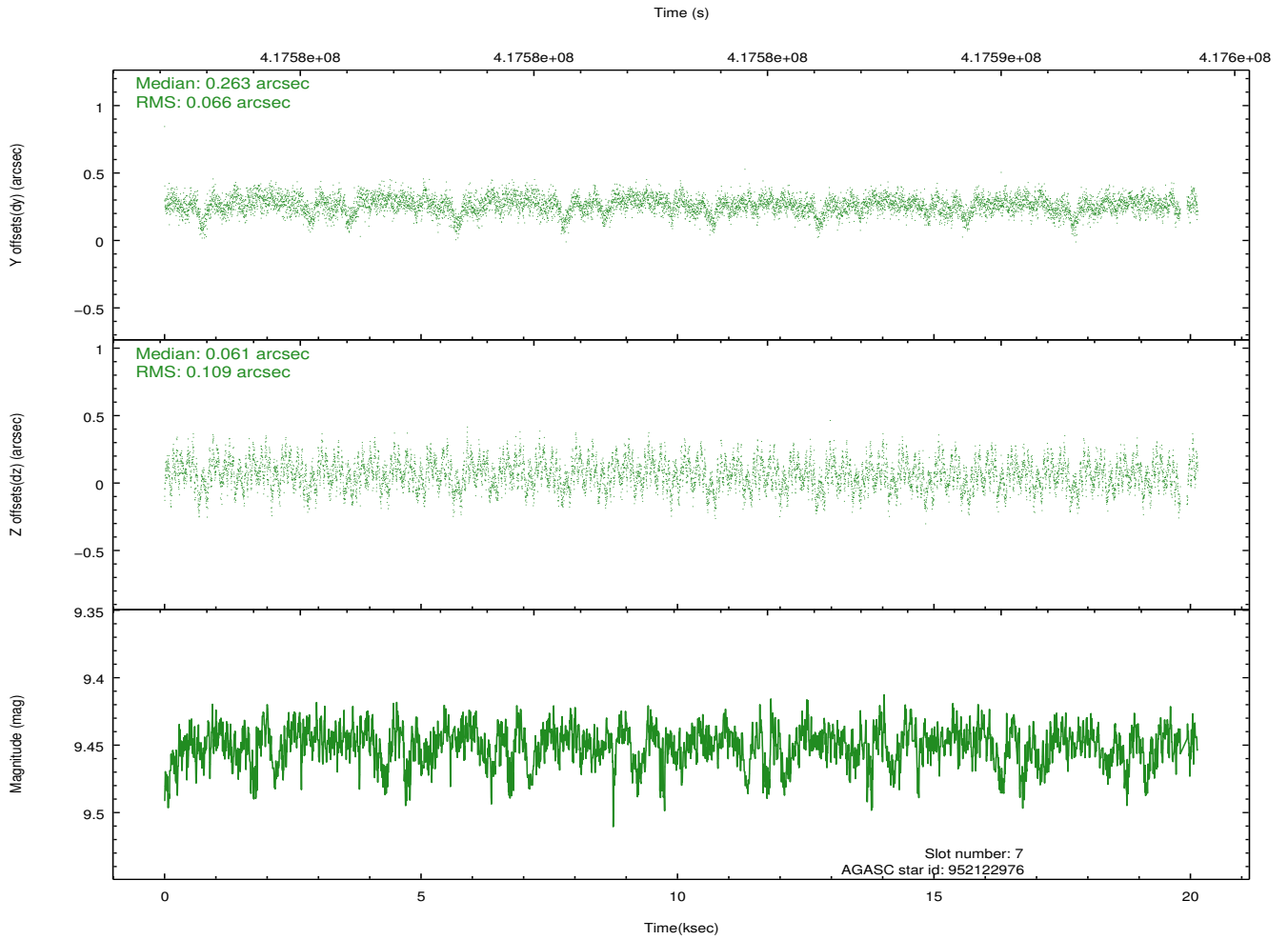
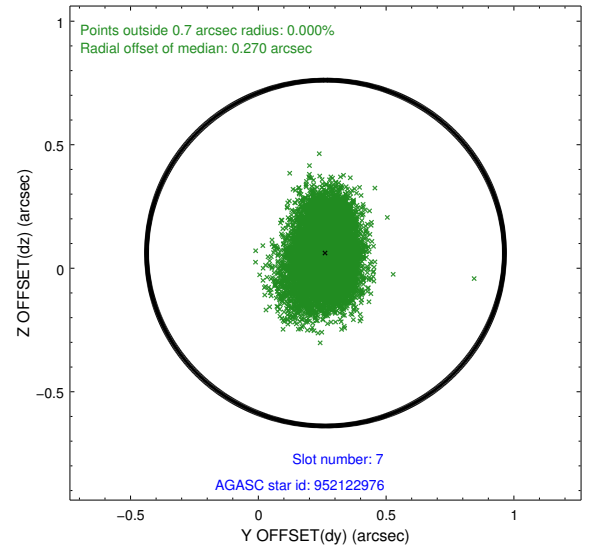
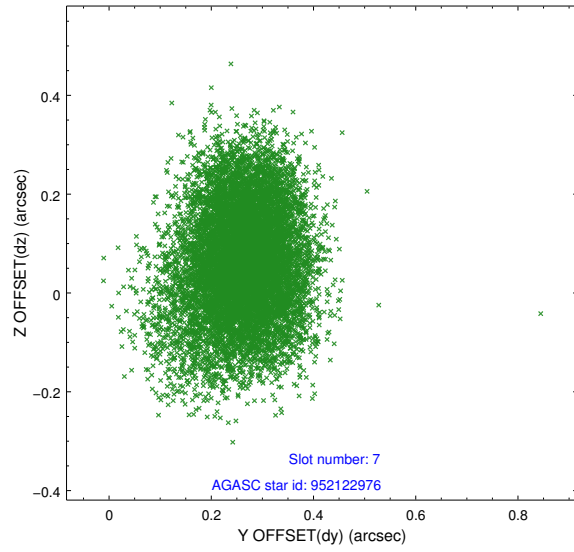
2.4.3 Slot 5



2.4.4 Slot 6

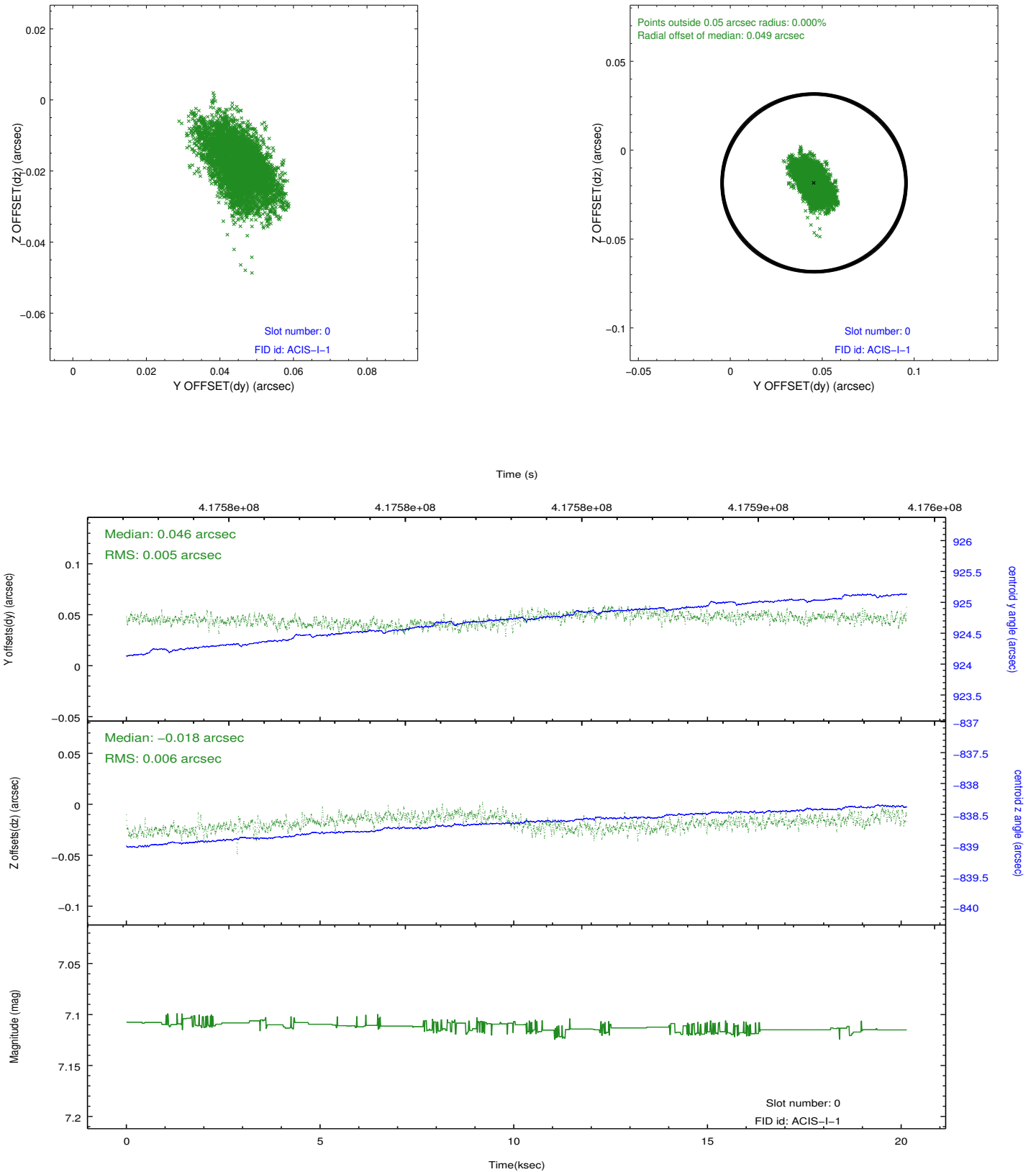


2.4.5 Slot 7

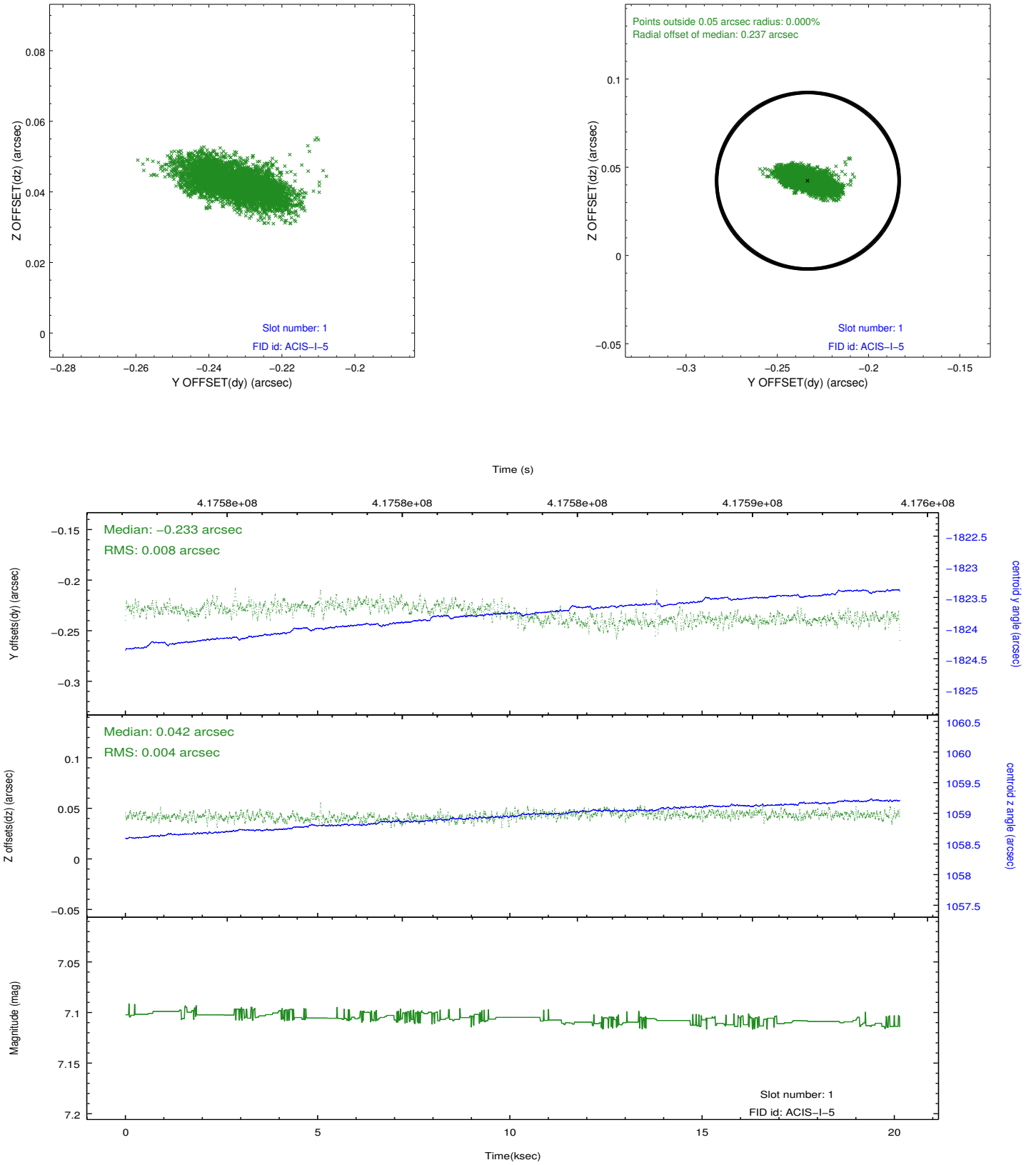


2.5 FID Slots

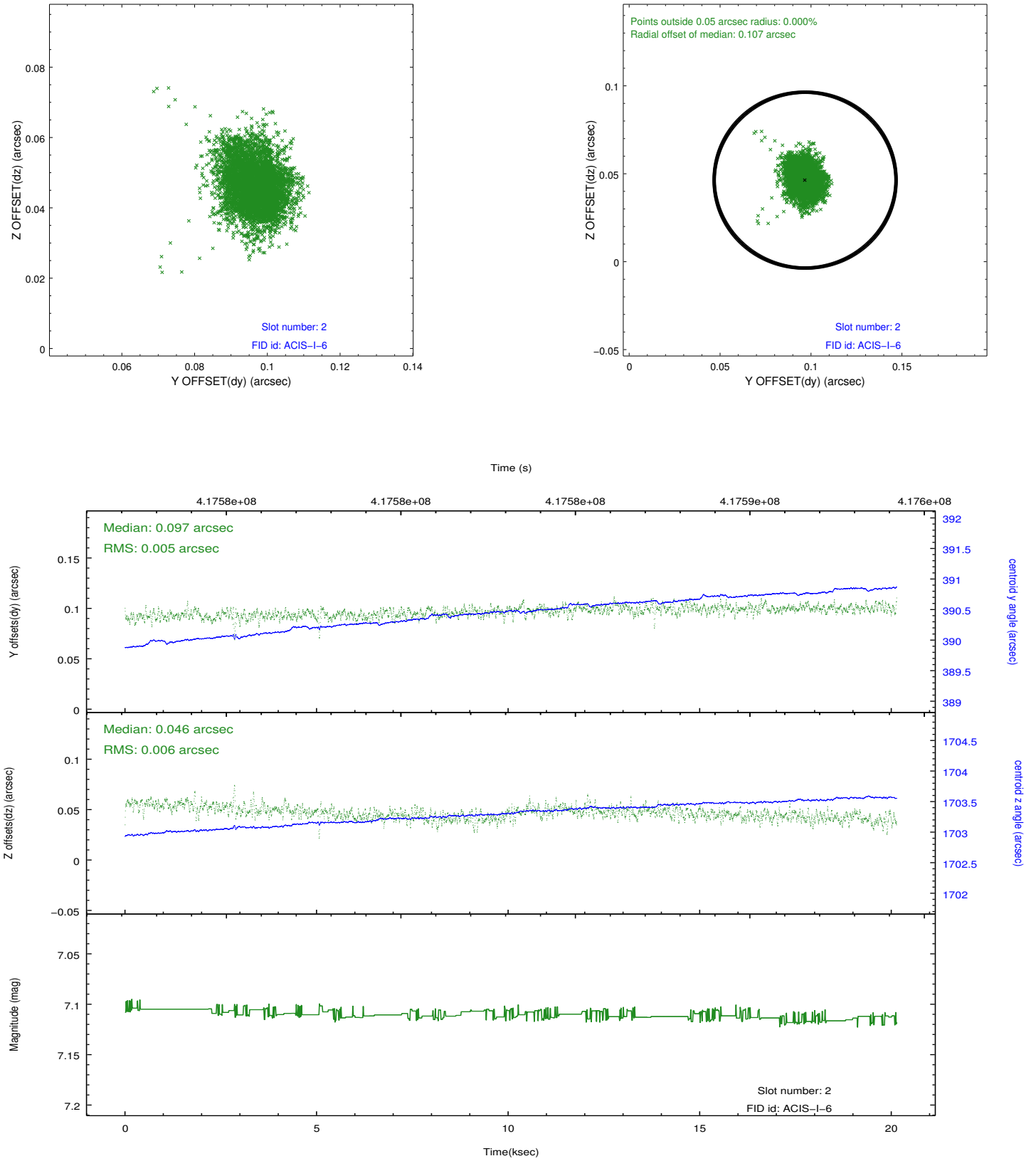
2.5.1 Slot 0



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)	2012.02.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.044003346026

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.