

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 18748 - L2 Version 2
Chandra X-Ray Center

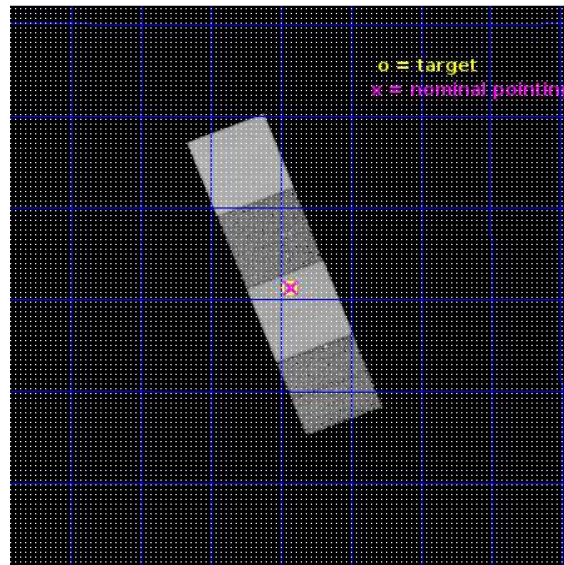
L2 Processing Date : May 9 2018

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1 Front

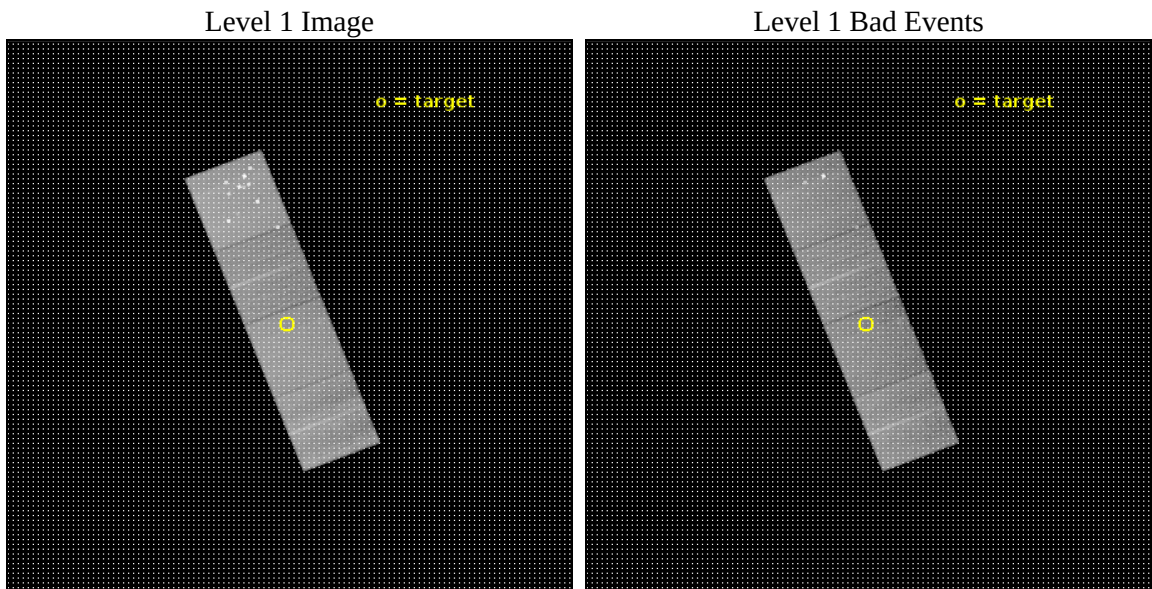
seq_num	901187	Sequence number
obs_id	18748	Observation id
title	The Local Leo Cold Cloud: Separating Solar Wind Charge Exchange from Local Bubble X-ray Emission	Proposal title
observer	Dr. Jonathan Slavin	Principal investigator
object	Local Leo Cold Cloud	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	145.6083	Observer's specified target RA [deg]
dec_targ	12.3538	Observer's specified target Dec [deg]
ra_nom	145.60606109999	Nominal RA [deg]
dec_nom	12.354800400949	Nominal Dec [deg]
roll_nom	68.657104565985	Nominal Roll [deg]
revision	2	Processing version of data
ontime	39062.198506355	Sum of GTIs [s]
livetime	38551.822125698	Livetime [s]
ontime5	39062.157466412	Sum of GTIs [s]
ontime6	39062.116426349	Sum of GTIs [s]
ontime7	39062.198506355	Sum of GTIs [s]
ontime8	39058.934306145	Sum of GTIs [s]
l2events	334654	Number of level 2 events



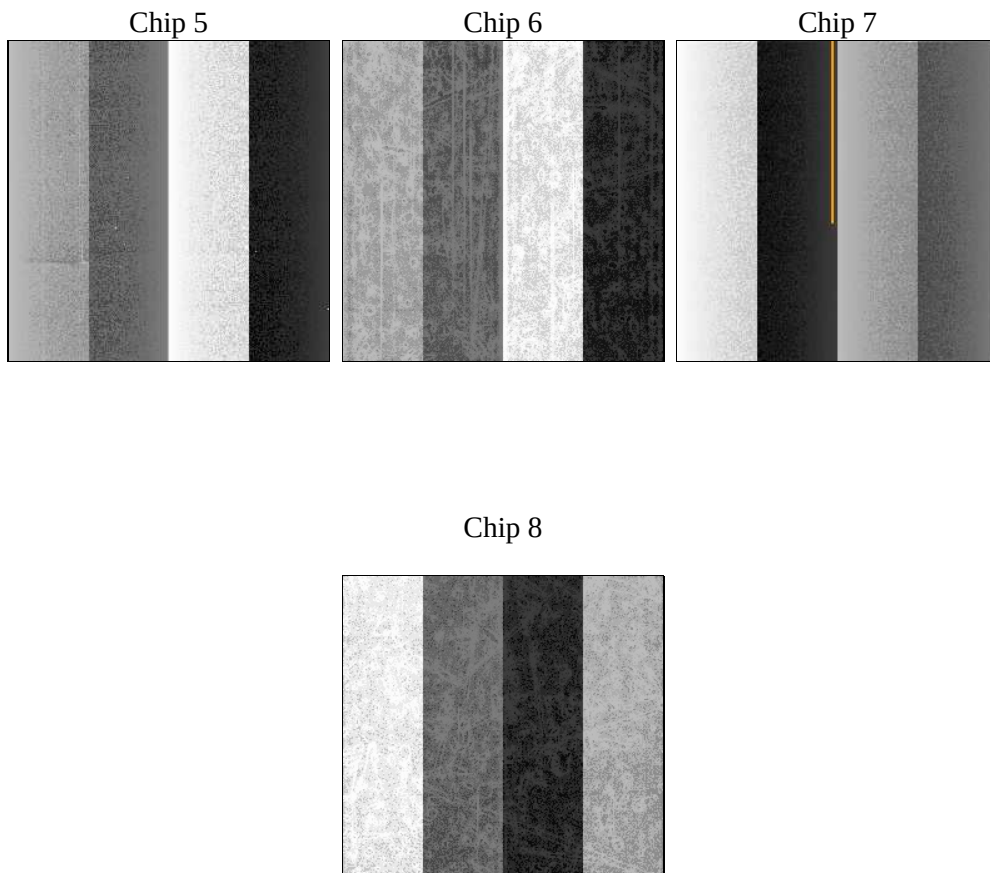
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	39062.198506355	Sum of GTIs [s]
caldsver	4.7.8	 	ontime5	39062.157466412	Sum of GTIs [s]
date	2018-05-09T16:05:16	Date and time of file creation	ontime6	39062.116426349	Sum of GTIs [s]
revision	2	Processing version of data	ontime7	39062.198506355	Sum of GTIs [s]
			ontime8	39058.934306145	Sum of GTIs [s]
			l1events	1260334	Number of level 1 events

2.1.4 Events

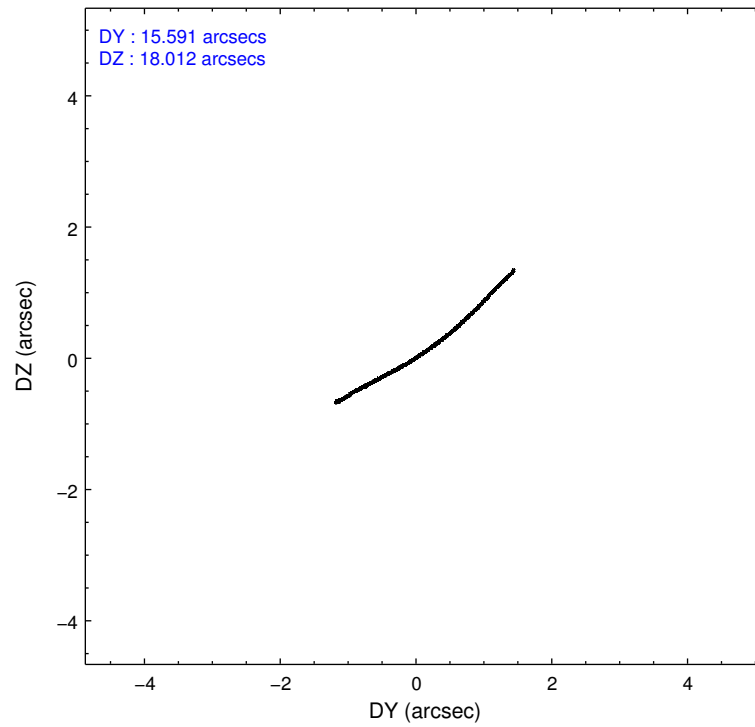
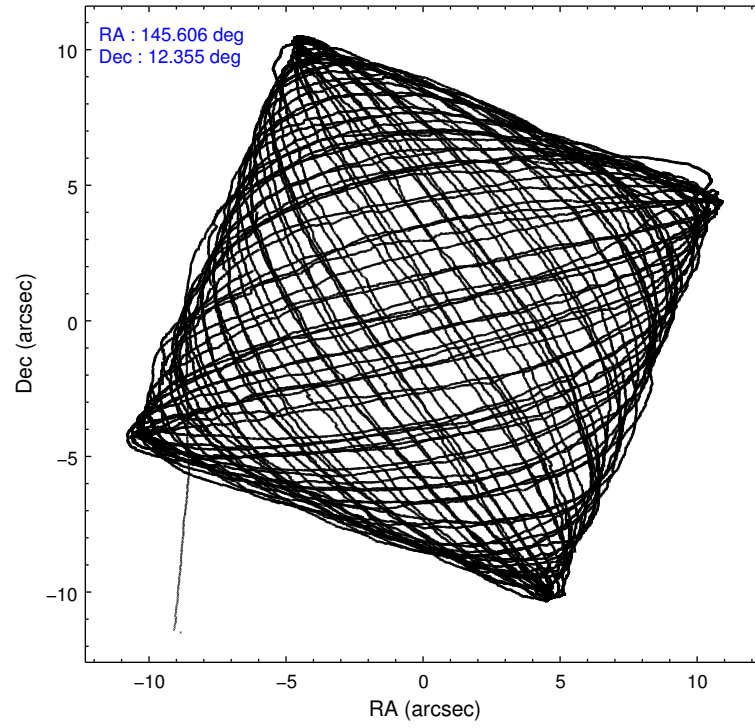
	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	441412	230295	296578	292049
rejected events	203969	203350	169126	217472
rejected %	46%	88%	57%	74%

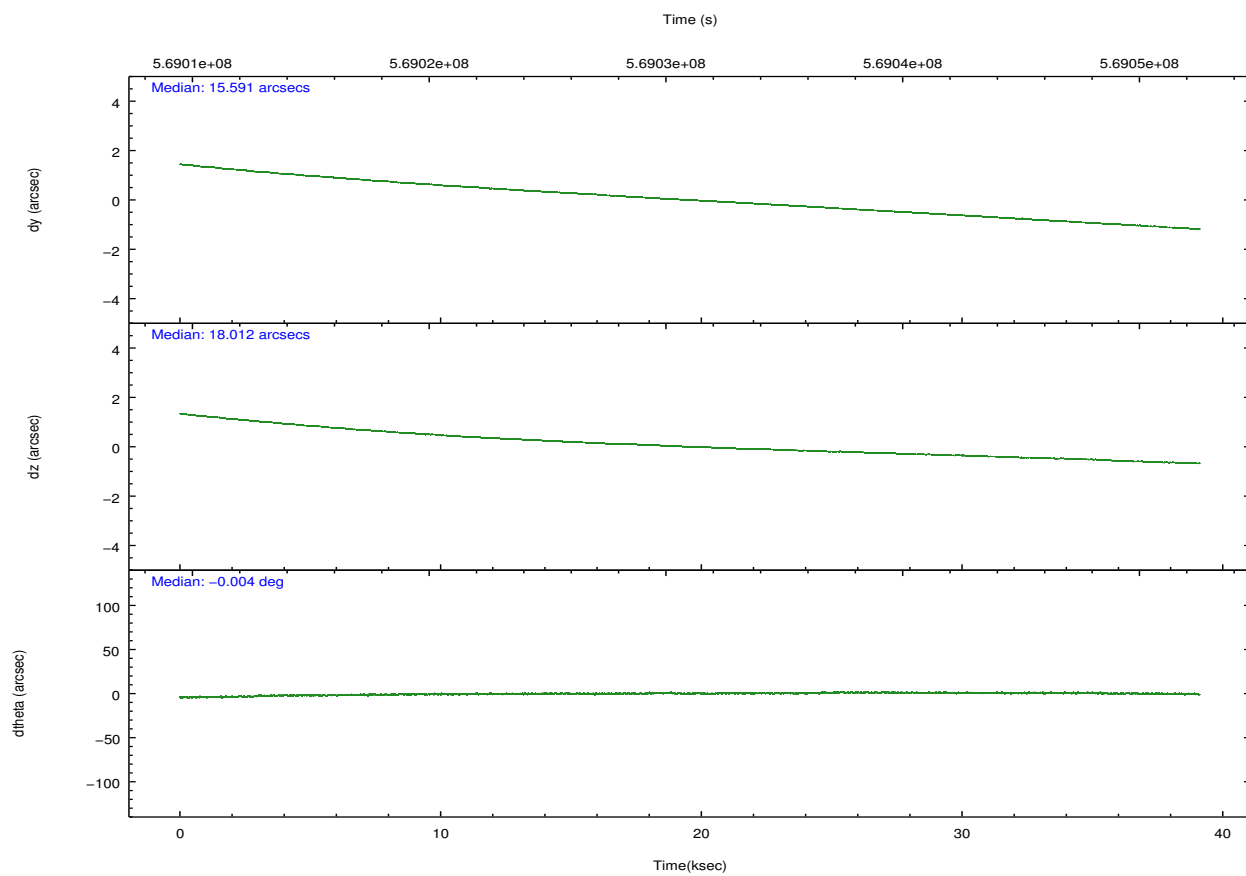
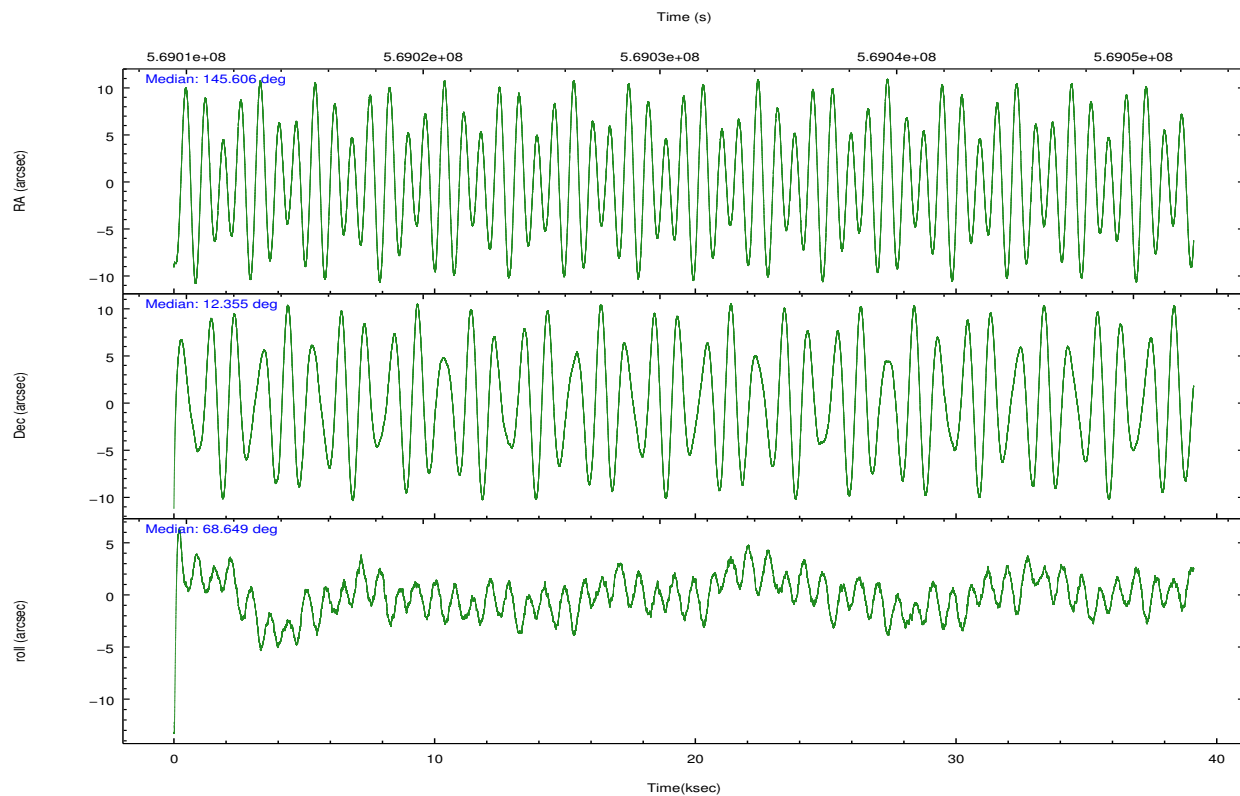
	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	63588	9243	10679	20723
	14%	4%	3%	7%
grade 1 events	791	87	396	205
	0%	0%	0%	0%
grade 2 events	62069	6317	26247	18514
	14%	2%	8%	6%
grade 3 events	7908	2553	10324	7739
	1%	1%	3%	2%
grade 4 events	7120	2520	10403	7262
	1%	1%	3%	2%
grade 5 events	26784	10750	29586	16197
	6%	4%	9%	5%
grade 6 events	96807	6315	69812	20346
	21%	2%	23%	6%
grade 7 events	176345	192510	139131	201063
	39%	83%	46%	68%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-5678	ACIS-5678	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	145.610662	145.6060610999879	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.327726	12.35480040094935	Alternating exposures requested	N	N
[deg] Pointing Roll	68.499501	68.65710456598505	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	567820868.184000	567820868.184000			
[s] Window stop time (MET)	570758468.184000	570758468.184000			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	569011563.184000	569009841.48505			
Observation start date	2016-01-12T18:44:55	2016-01-12T18:17:21			
[s] Observation end time (MET)	569050563.184000	569051502.09992			
Observation end date	2016-01-13T05:34:55	2016-01-13T05:51:42			
Read mode	TIMED	TIMED			

2.3 Aspect



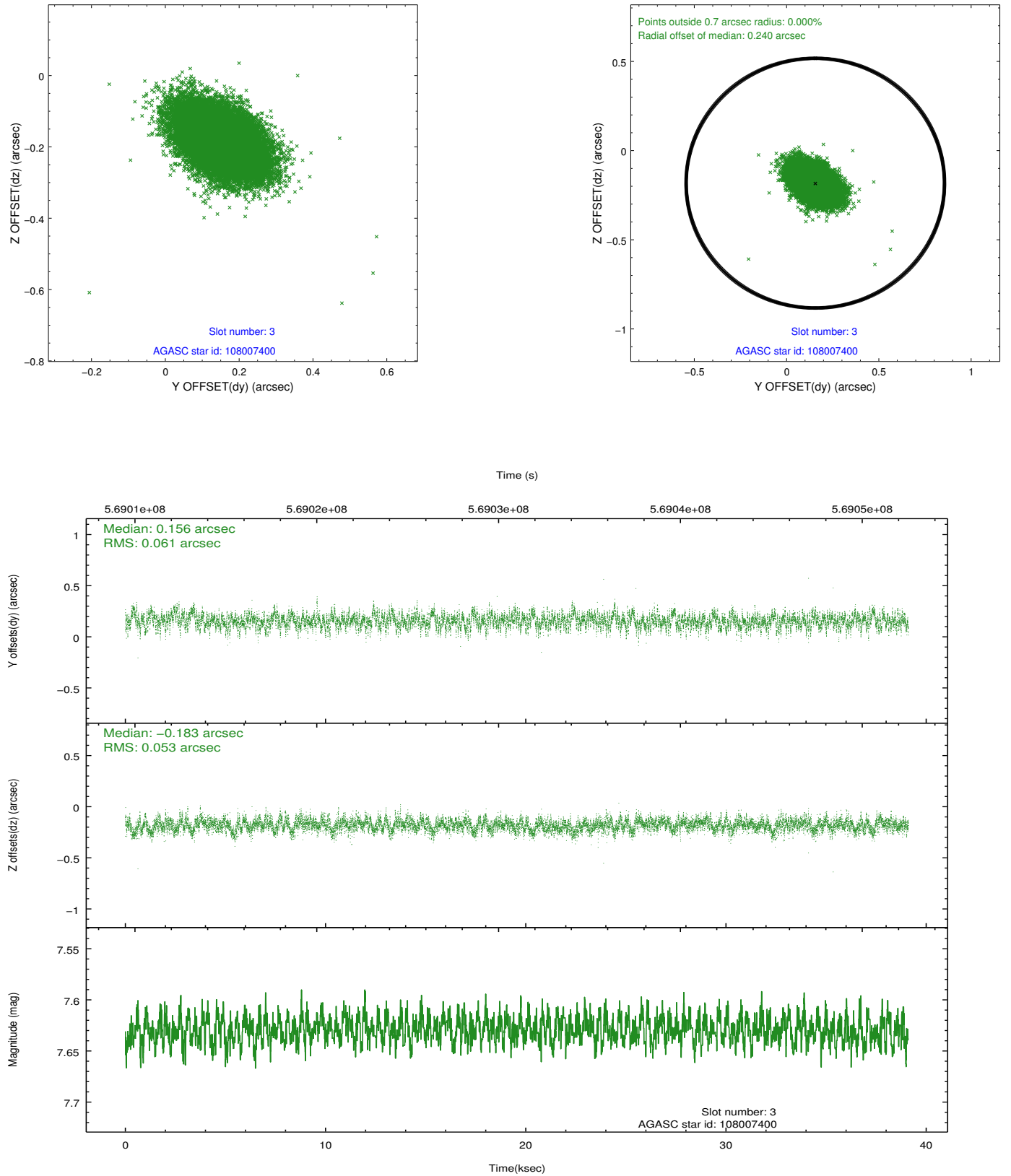


Slot Statistics

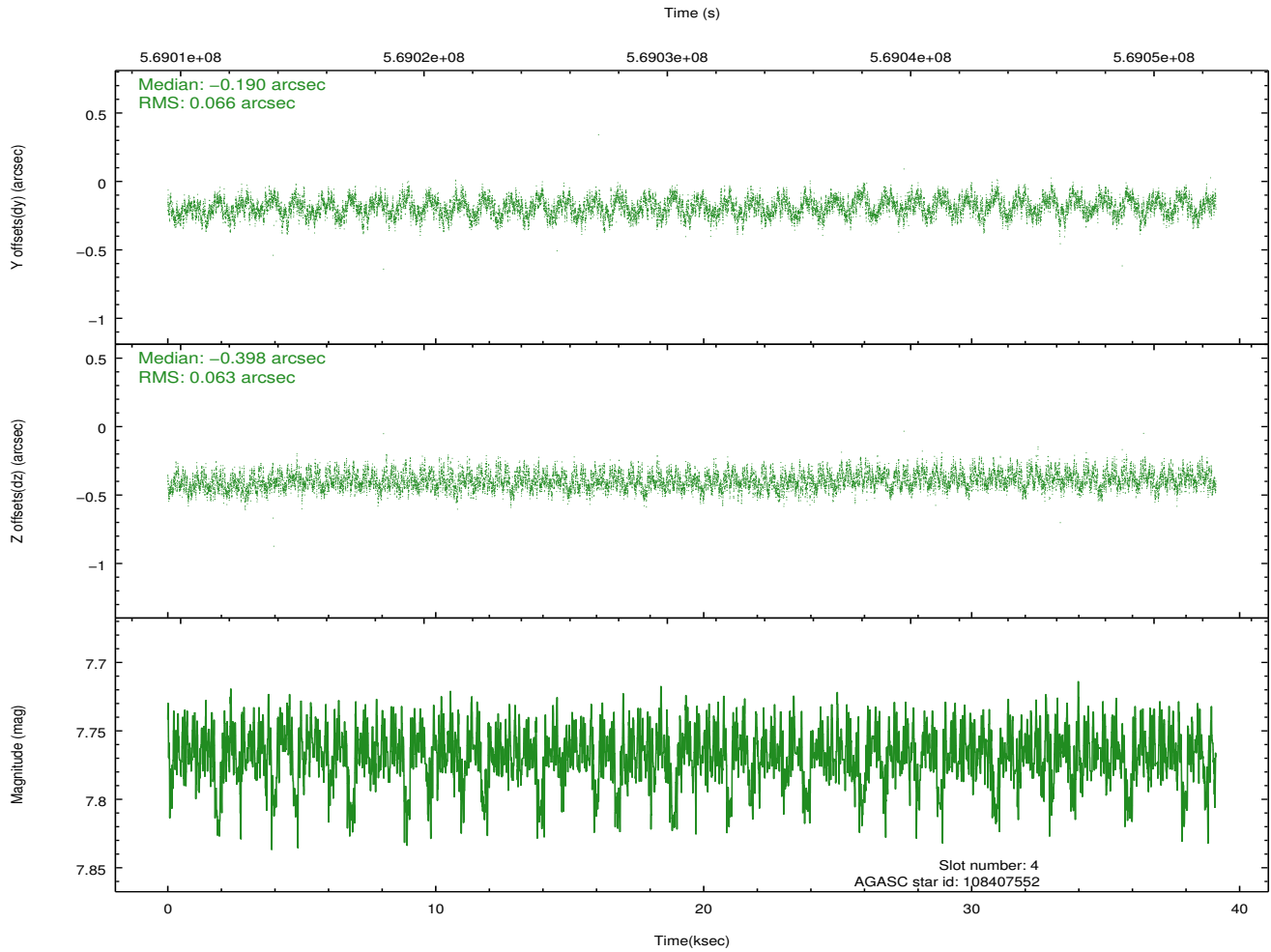
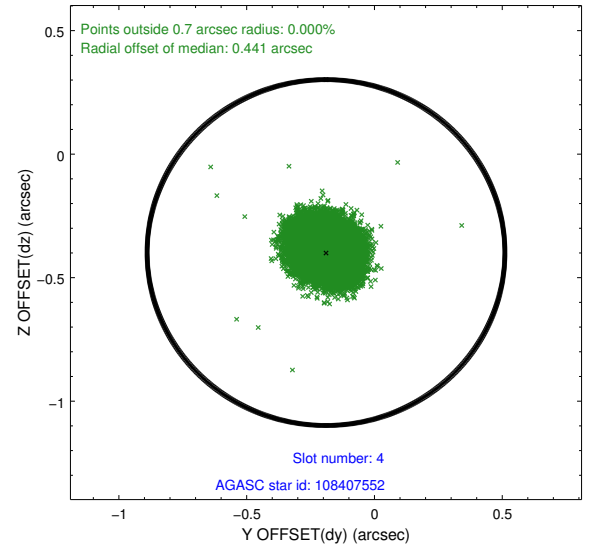
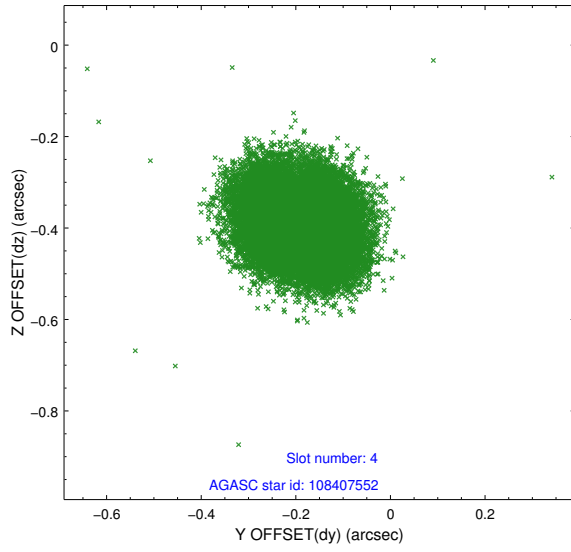
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.13	9540	-0.165	-0.127	0.012	0.025	0.000000	0.000000	-768.78	-1739.65
1	FID		ACIS-S-4	7.23	9541	0.414	0.114	0.009	0.015	0.000000	0.000000	2145.08	169.03
2	FID		ACIS-S-5	7.24	9541	-0.279	0.023	0.015	0.025	0.000000	0.000000	-1821.70	162.66
3	GUIDE	used	108007400	7.63	19076	0.156	-0.183	0.084	0.144	144.894890	12.166080	-1461.87	2131.29
4	GUIDE	used	108407552	7.77	19079	-0.190	-0.398	0.098	0.153	145.411440	12.898641	1656.10	1403.38
5	GUIDE	used	108933040	7.12	19077	0.027	0.188	0.077	0.125	145.930414	12.159796	-148.83	-1268.04
6	GUIDE	used	109314160	8.90	19065	0.061	0.173	0.109	0.174	145.841992	12.599197	1206.77	-396.82
7	GUIDE	used	109322304	8.57	19073	-0.056	0.216	0.102	0.166	146.016782	12.535162	1219.02	-1053.70

2.4 Star Slots

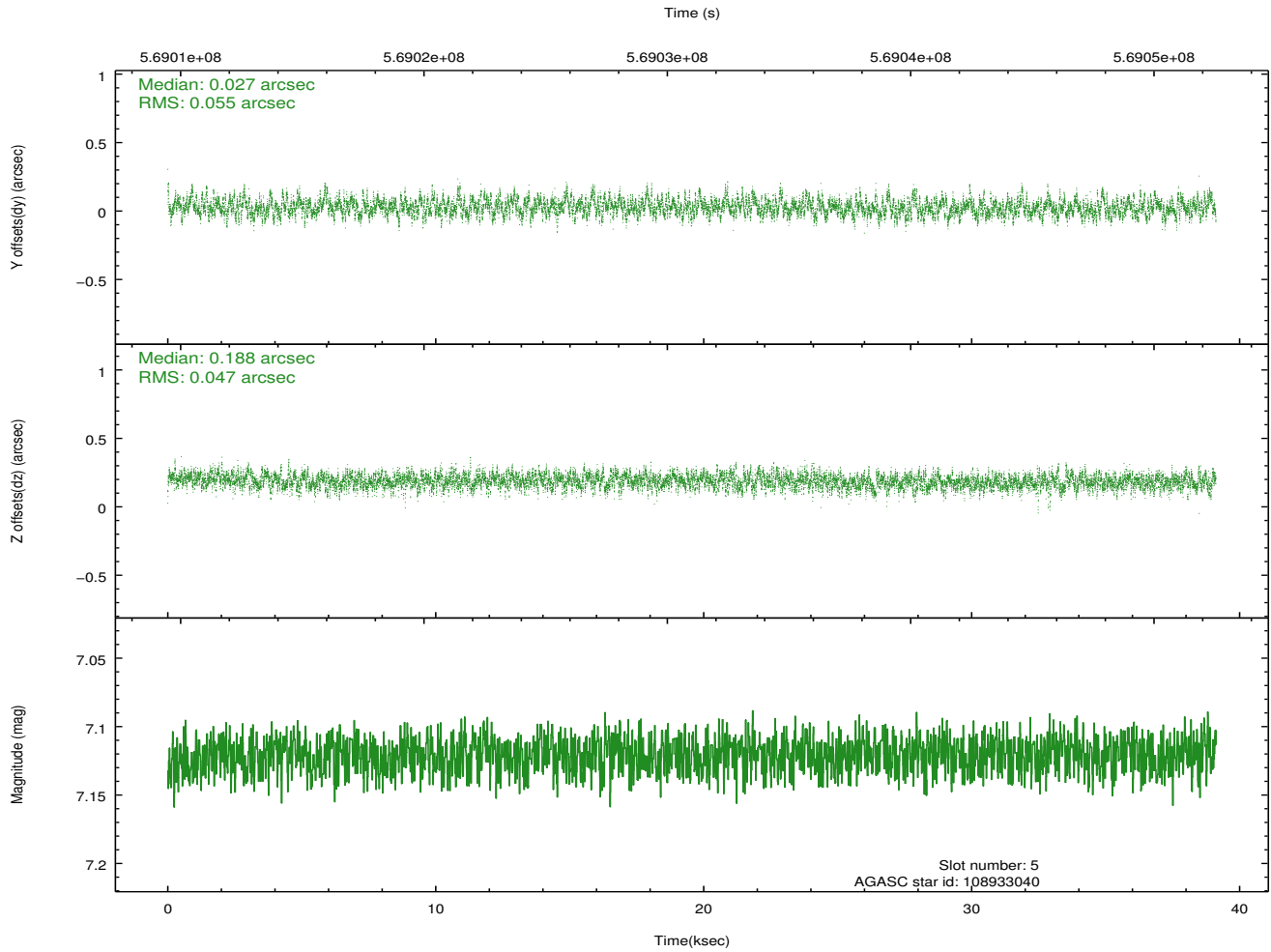
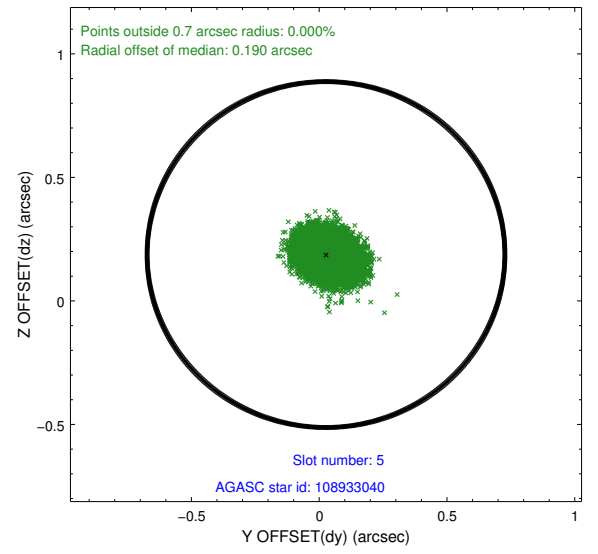
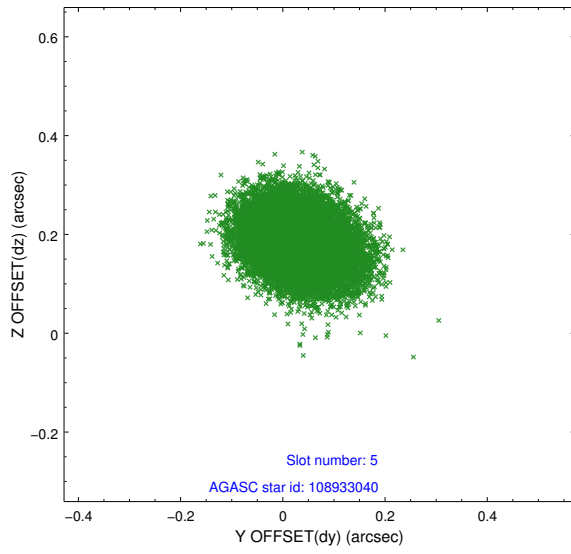
2.4.1 Slot 3



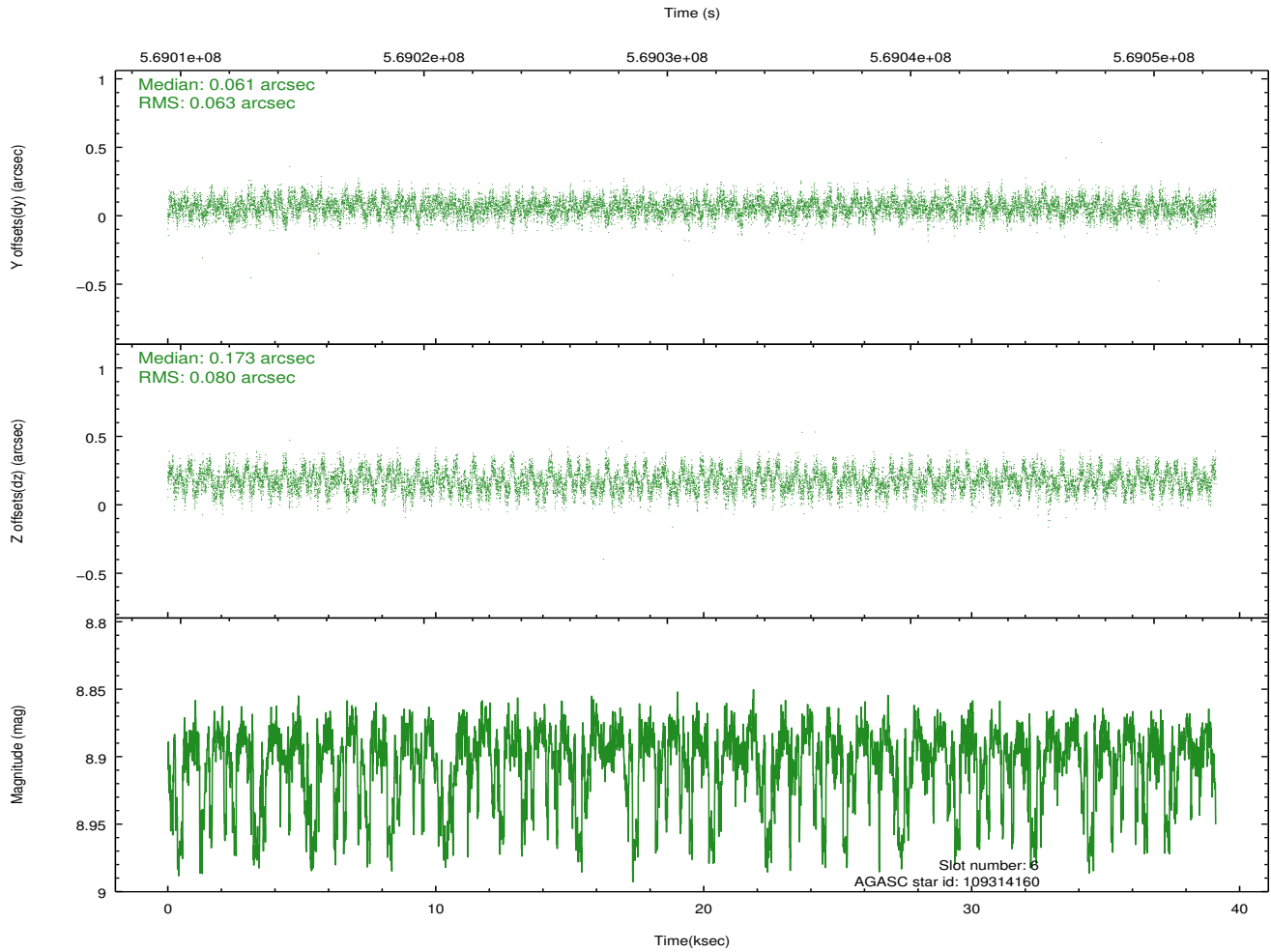
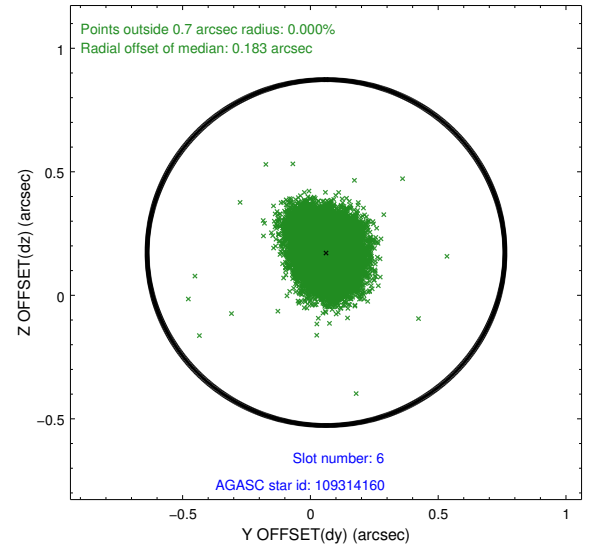
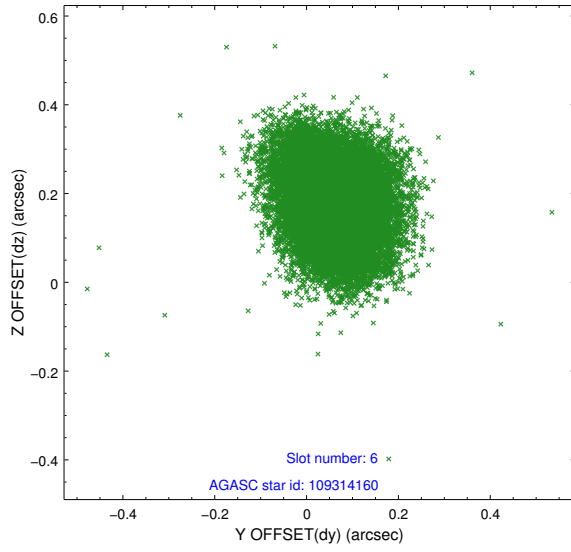
2.4.2 Slot 4



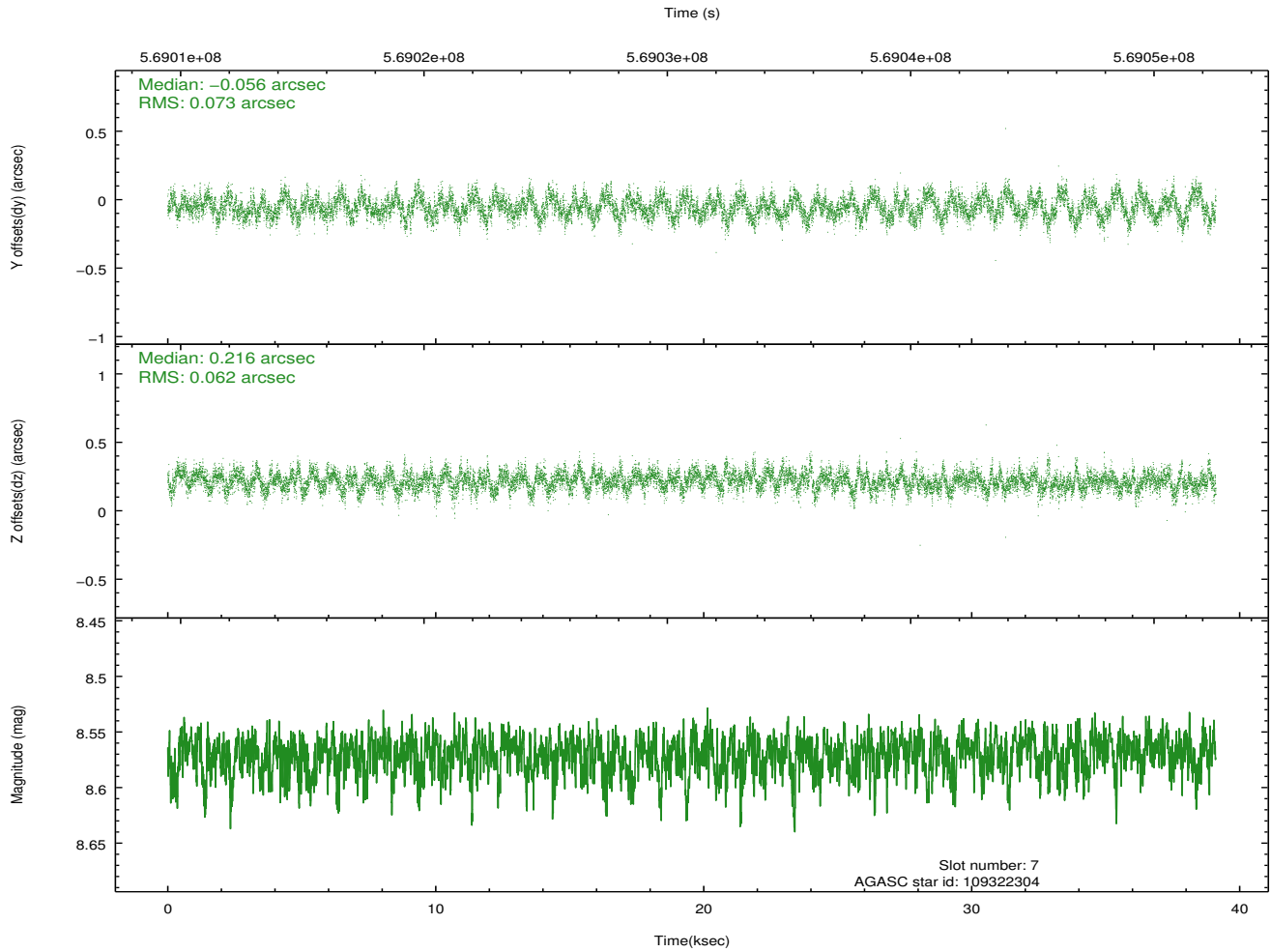
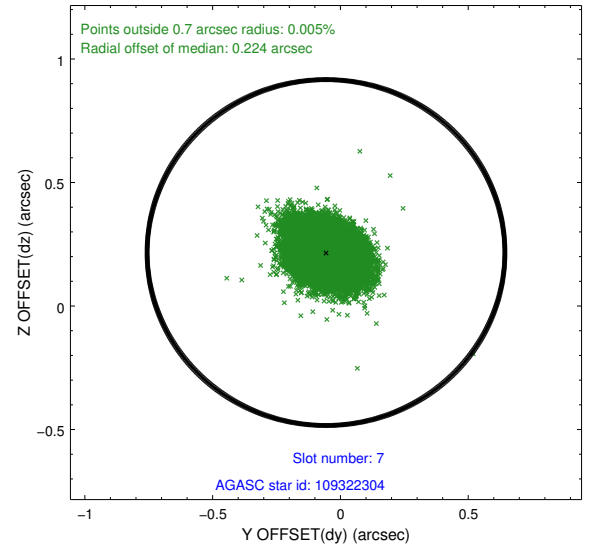
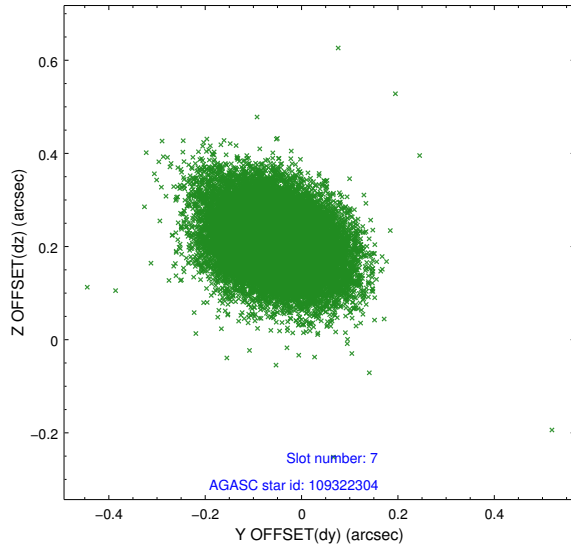
2.4.3 Slot 5



2.4.4 Slot 6

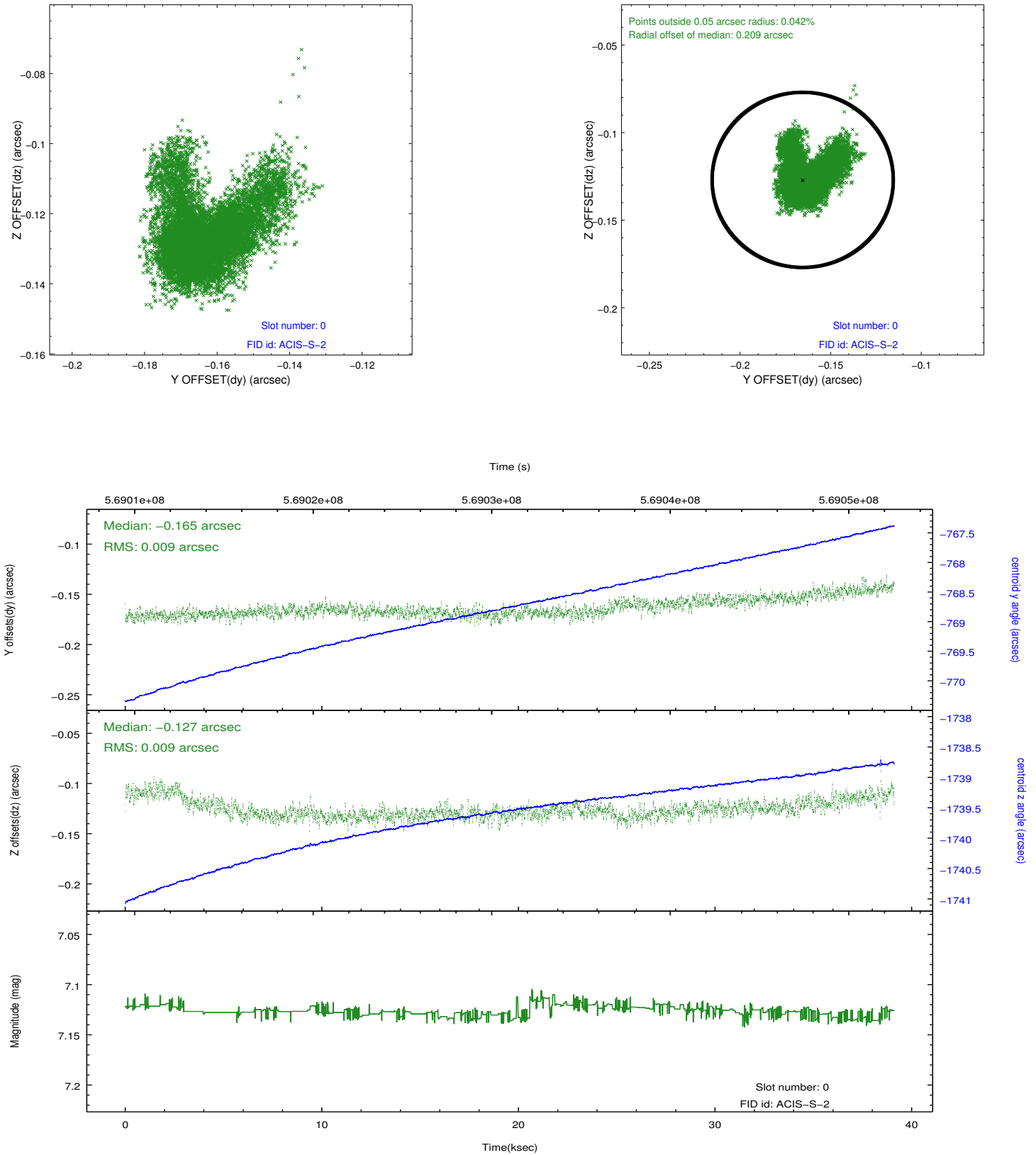


2.4.5 Slot 7

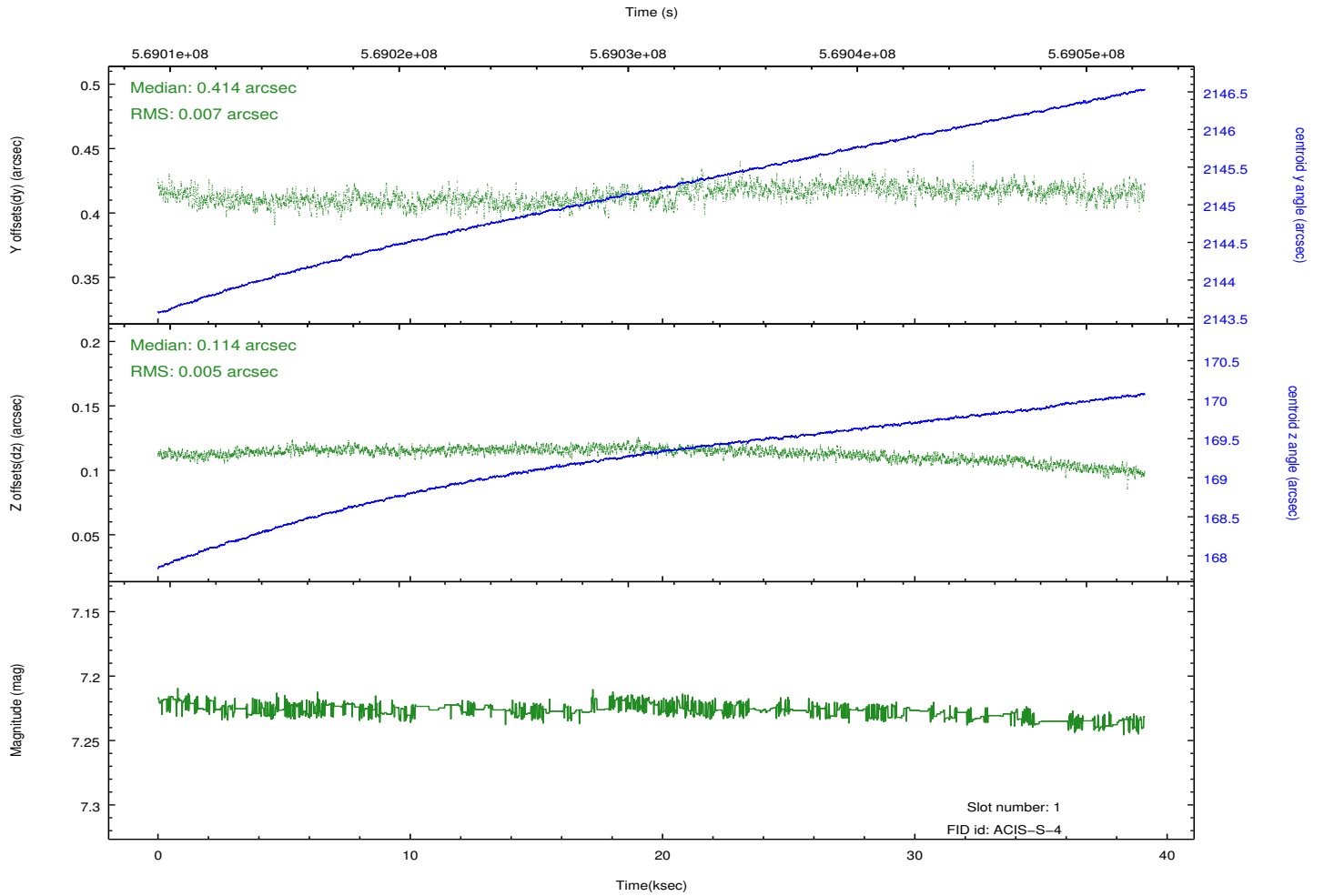
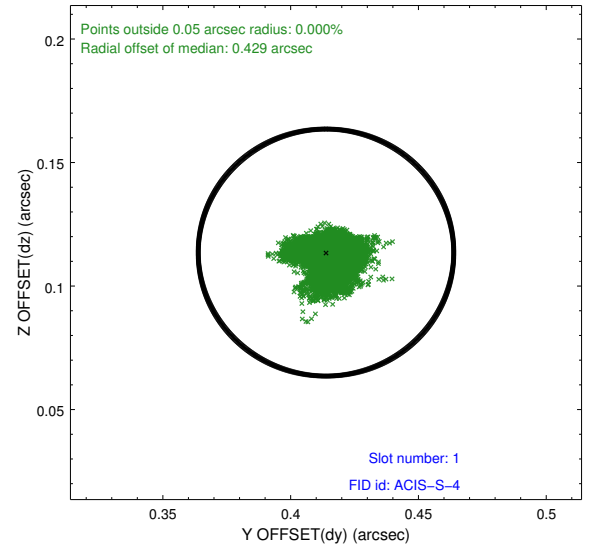
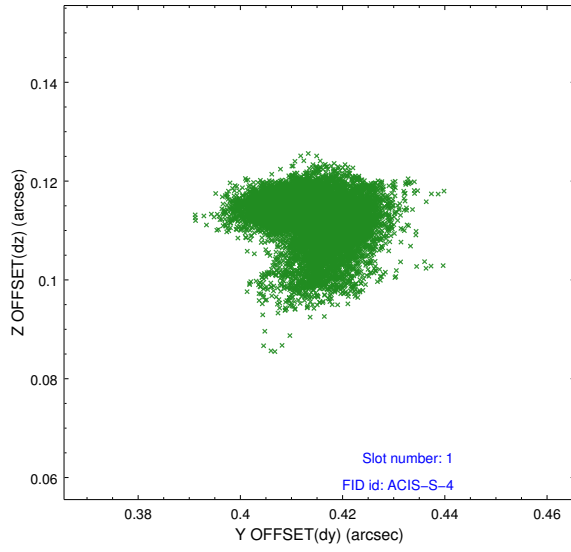


2.5 FID Slots

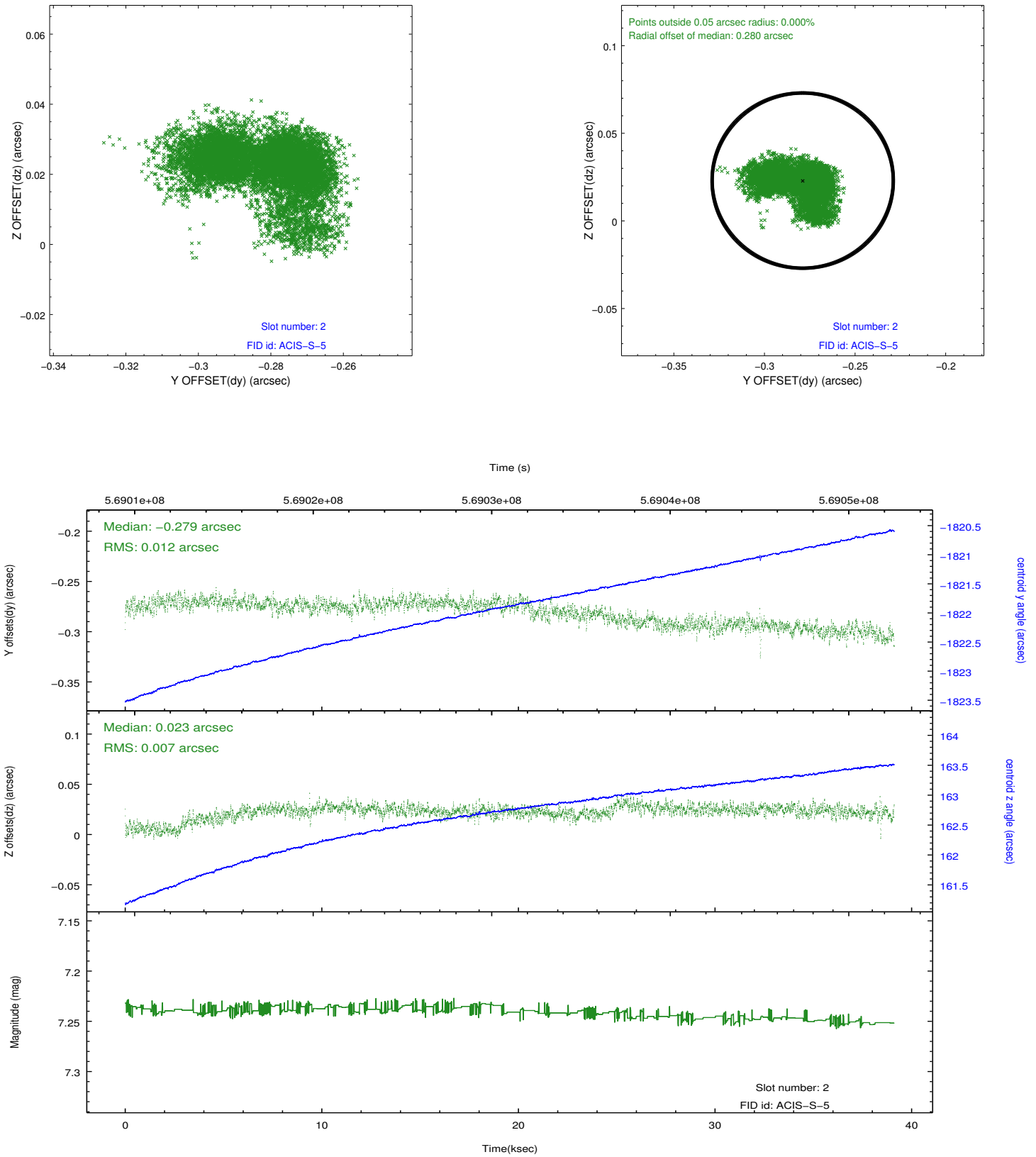
2.5.1 Slot 0



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)	2018.05.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.062198506355

A.2 Comments

Time constraint met. Preferred roll constraint met.

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This reprocessing of the data was done to correct corrupted values in the predicted obspar file. There is no change to any other data product, including the event files.