

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20726 - L2 Version 1
Chandra X-Ray Center

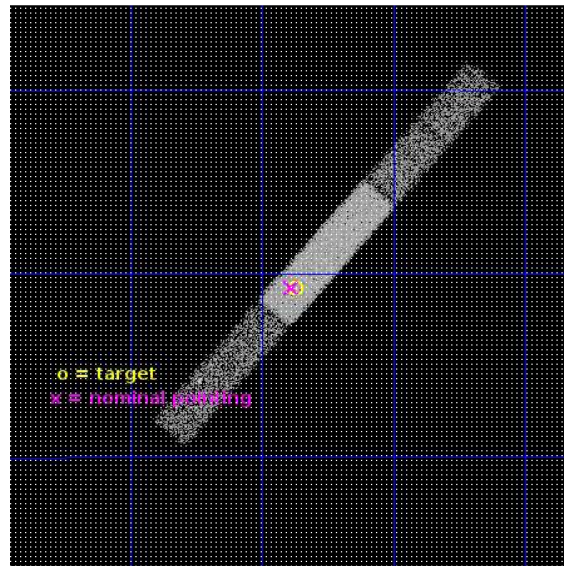
L2 Processing Date : Sep 10 2017

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1 Front

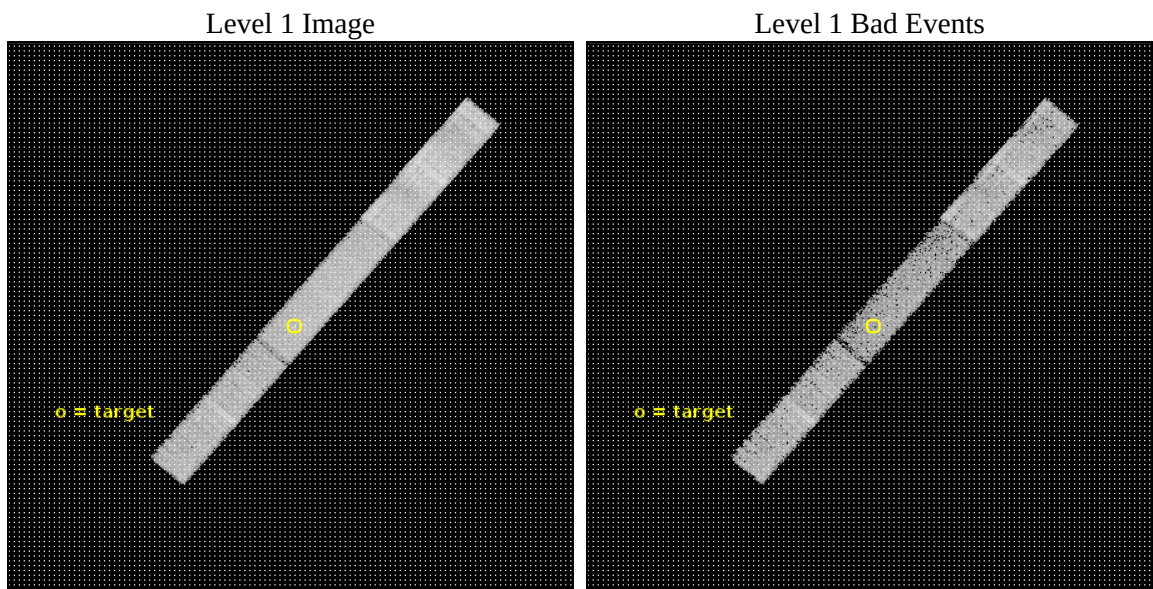
seq_num	401865	Sequence number
obs_id	20726	Observation id
title	Globular cluster neutron stars and the determination of the dense matter equation of state	Proposal title
observer	Sebastien Guillot	Principal investigator
object	M30	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	325.092083	Observer's specified target RA [deg]
dec_targ	-23.179861	Observer's specified target Dec [deg]
ra_nom	325.09684619745	Nominal RA [deg]
dec_nom	-23.179397896225	Nominal Dec [deg]
roll_nom	310.15852069399	Nominal Roll [deg]
revision	1	Processing version of data
ontime	20083.49946785	Sum of GTIs [s]
livetime	19207.631472695	Livetime [s]
ontime6	20083.49946785	Sum of GTIs [s]
ontime7	20083.49946785	Sum of GTIs [s]
ontime8	20077.853227973	Sum of GTIs [s]
l2events	28470	Number of level 2 events



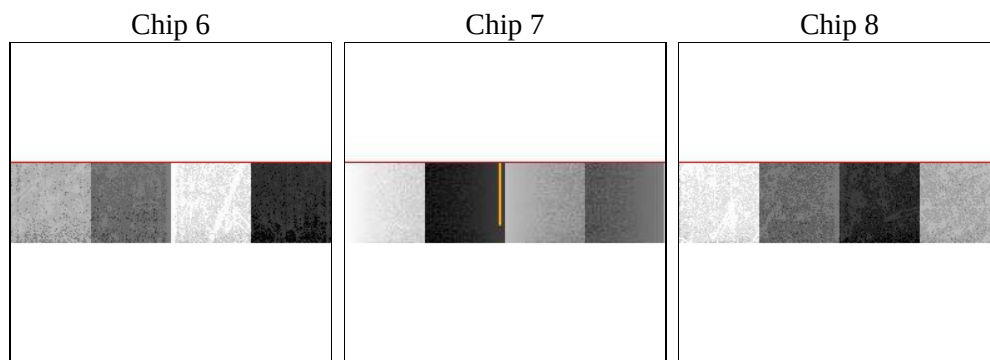
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	20083.49946785	Sum of GTIs [s]
caldsver	4.7.6	 	ontime6	20083.49946785	Sum of GTIs [s]
date	2017-09-10T22:29:59	Date and time of file creation	ontime7	20083.49946785	Sum of GTIs [s]
revision	1	Processing version of data	ontime8	20077.853227973	Sum of GTIs [s]
			l1events	140472	Number of level 1 events

2.1.4 Events

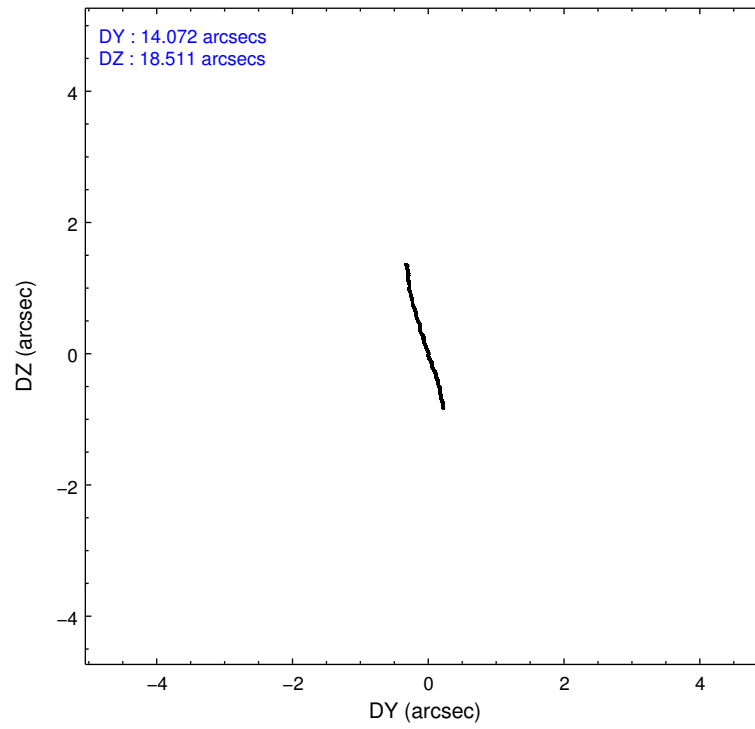
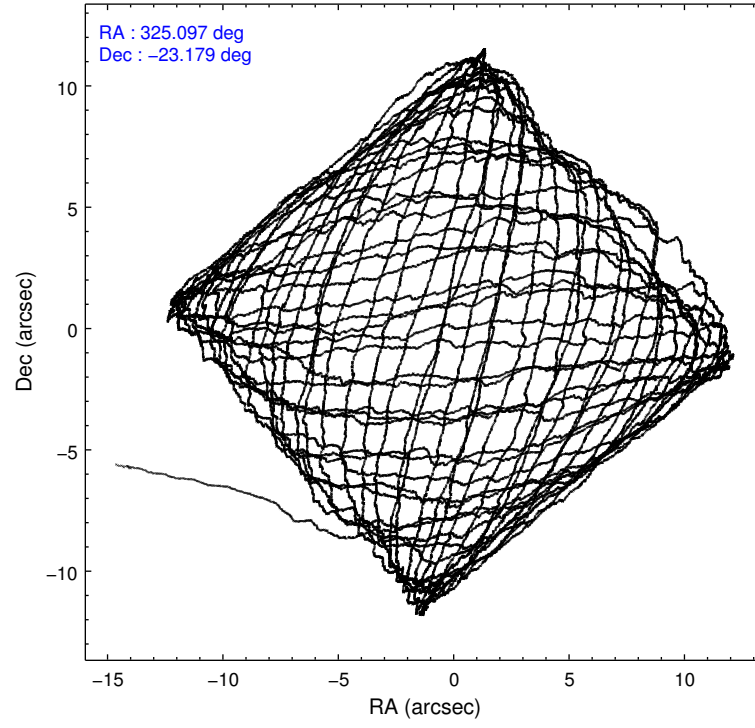
	ccd 6	ccd 7	ccd 8
level 1 events	37520	44325	58627
rejected events	32797	23114	39601
rejected %	87%	52%	67%

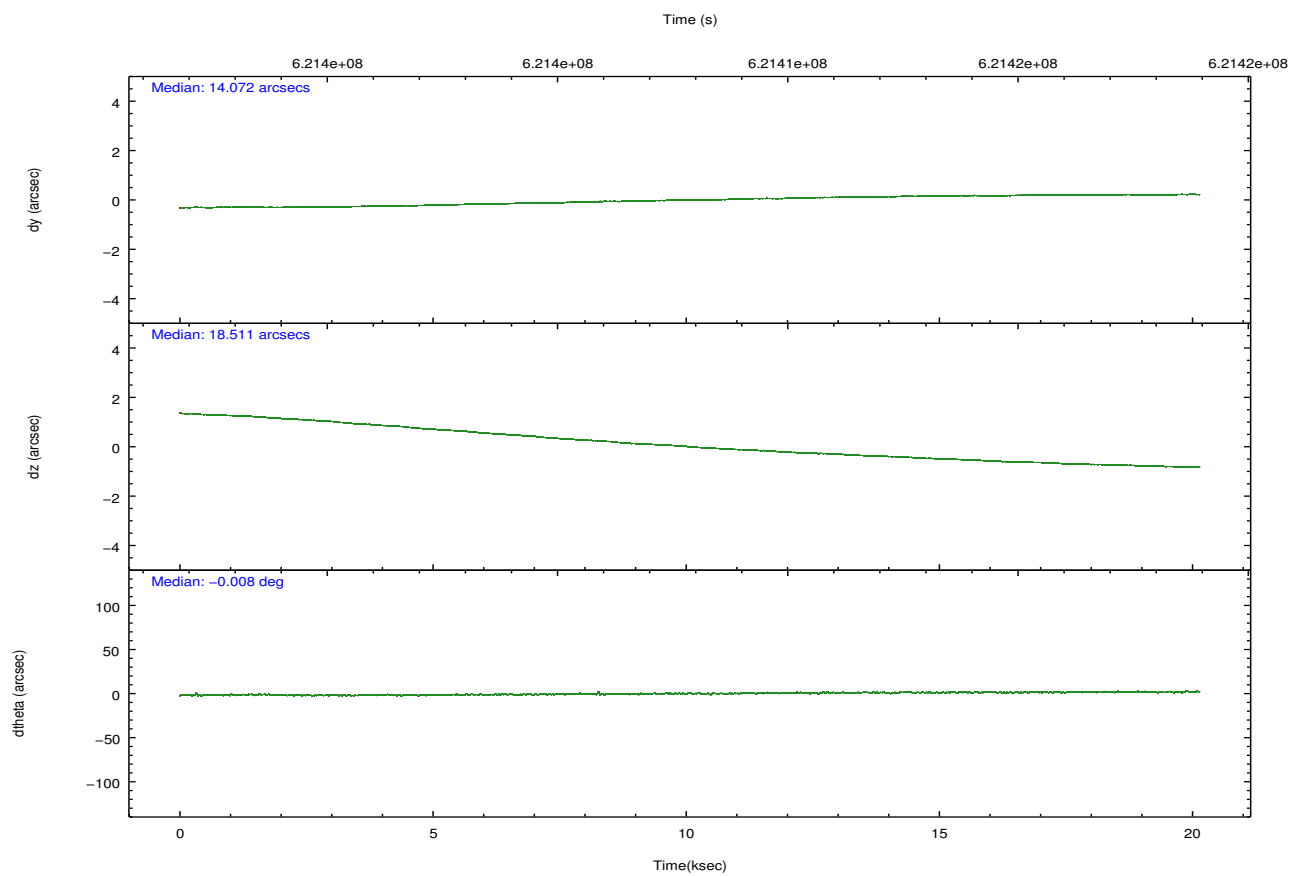
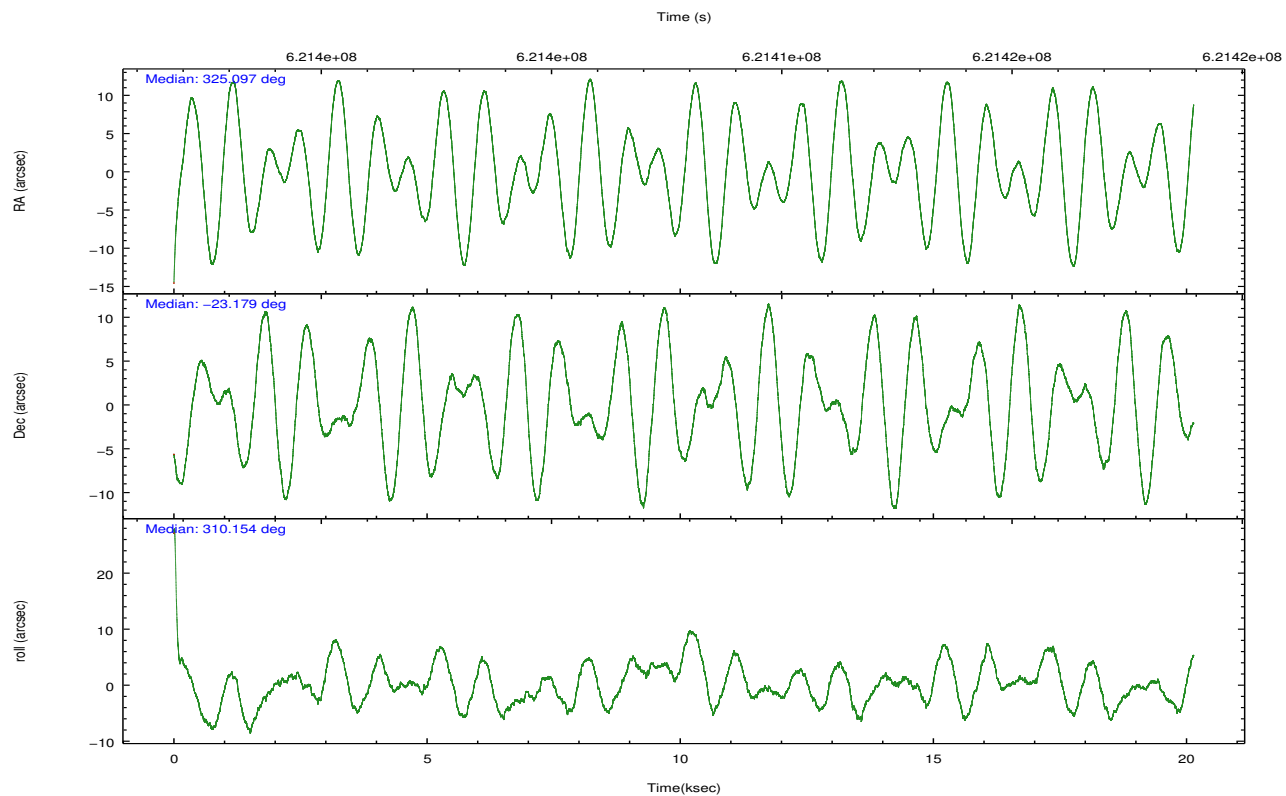
	ccd 6	ccd 7	ccd 8
grade 0 events	1530	2135	5466
	4%	4%	9%
grade 1 events	12	65	38
	0%	0%	0%
grade 2 events	947	4532	3533
	2%	10%	6%
grade 3 events	678	2269	2655
	1%	5%	4%
grade 4 events	646	2284	2545
	1%	5%	4%
grade 5 events	1623	4498	2421
	4%	10%	4%
grade 6 events	922	9993	4854
	2%	22%	8%
grade 7 events	31162	18549	37115
	83%	41%	63%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-678	ACIS-678	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	325.068644	325.0968461974544	CCD I2 on	N	N
[deg] Pointing Dec	-23.170407	-23.17939789622541	CCD I3 on	N	N
[deg] Pointing Roll	309.990783	310.1585206939938	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O2	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	O1	Y
[s] Observation start time (MET)	621397959.184000	621396622.22992	CCD S5 on	N	N
Observation start date	2017-09-10T02:31:30	2017-09-10T02:10:22	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	621417959.184000	621418804.76871	On-chip summing requested	N	N
Observation end date	2017-09-10T08:04:50	2017-09-10T08:20:04	Subarray requested	CUSTOM	1/4
Read mode	TIMED	TIMED	Subarray start row	385	385
			Subarray row count	256	256
			Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	0.9

2.3 Aspect



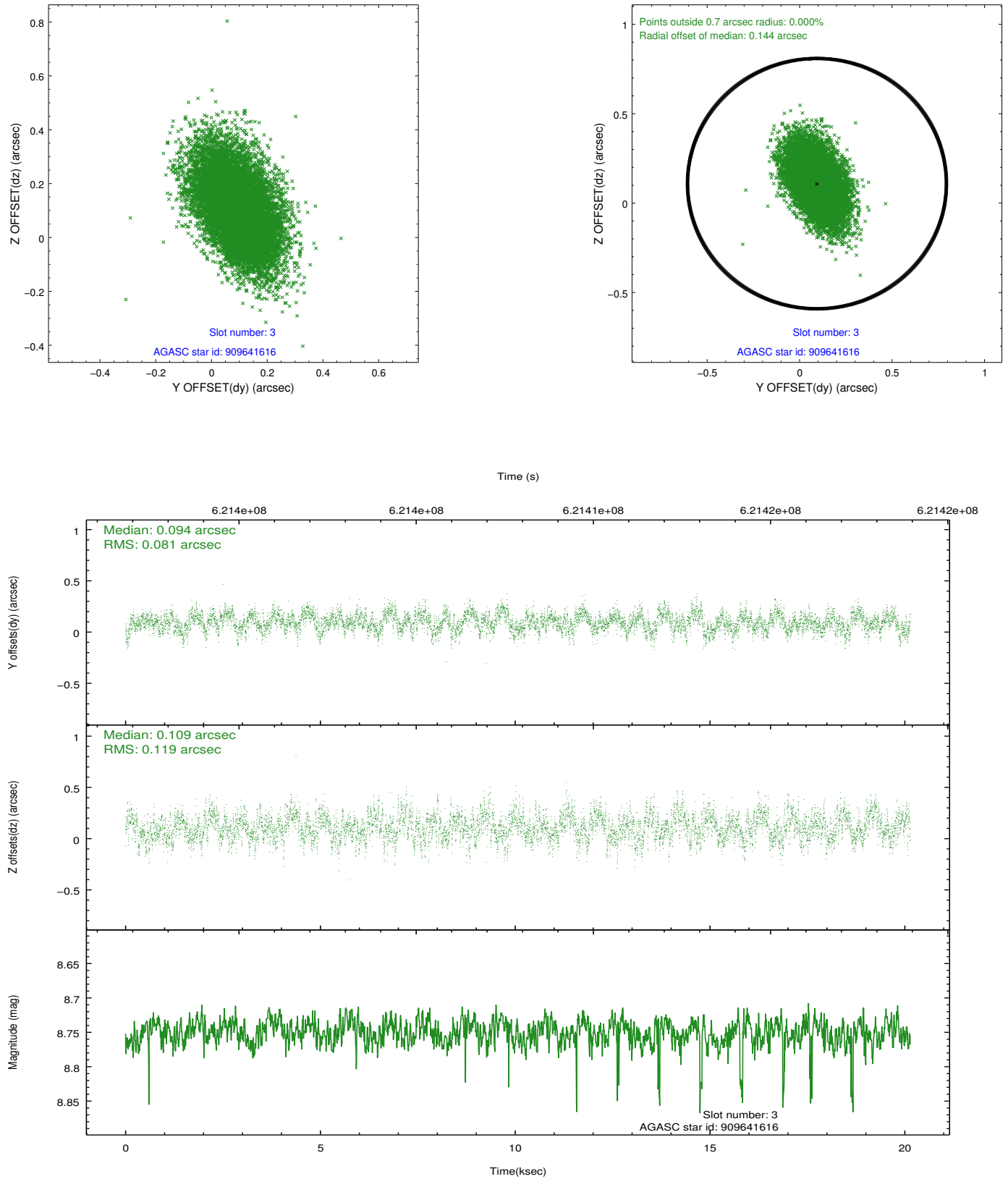


Slot Statistics

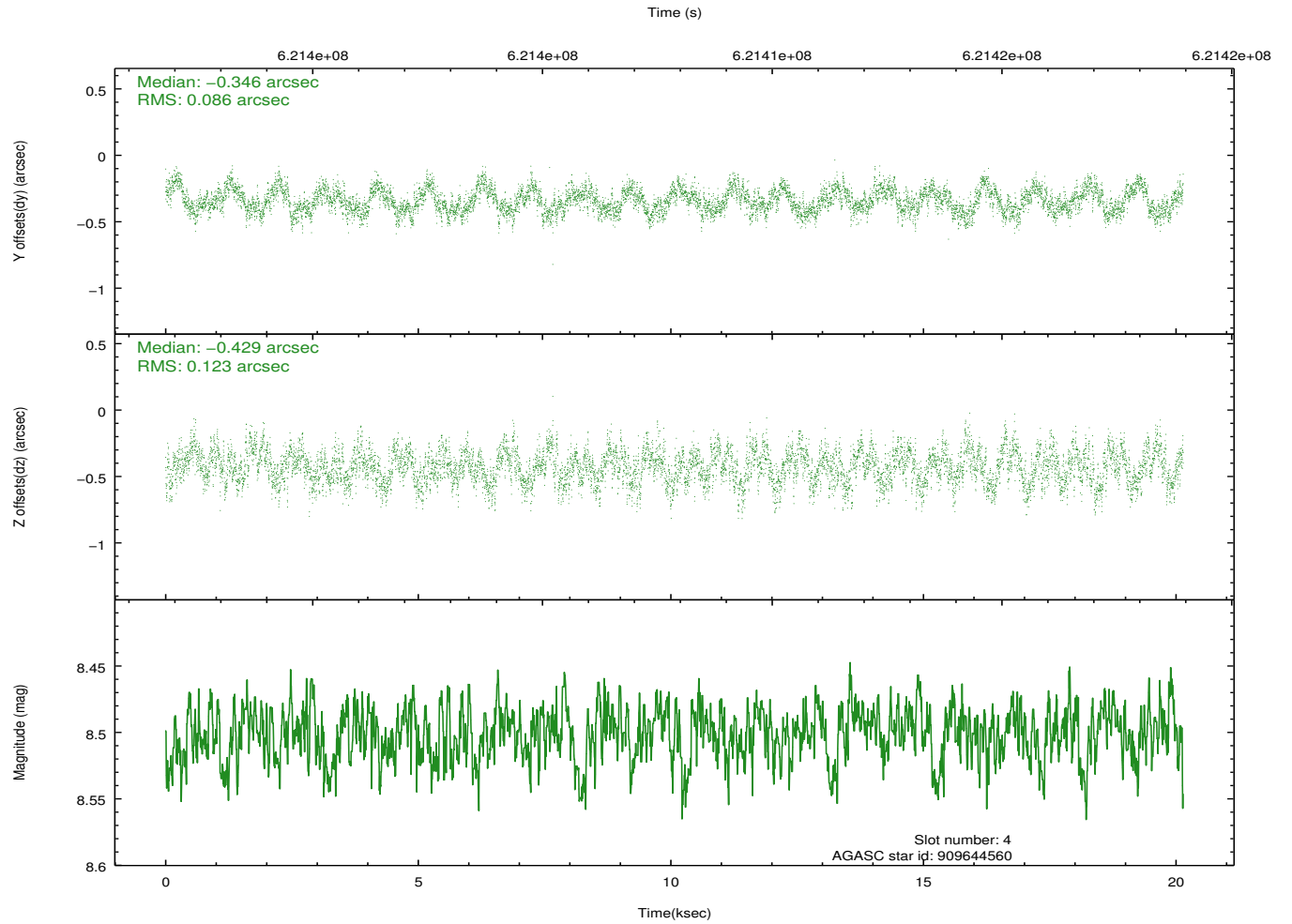
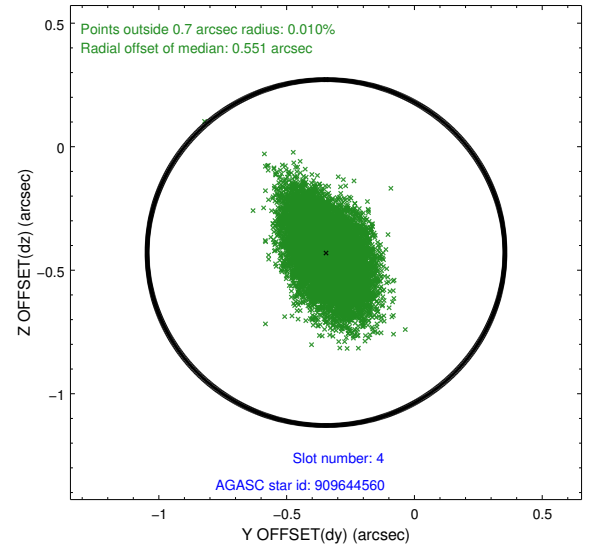
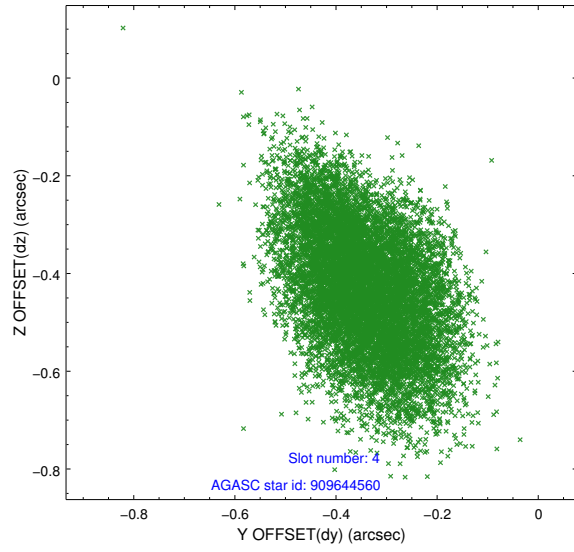
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-1	7.09	4913	0.133	-0.012	0.020	0.031	0.000000	0.000000	929.25	-1735.66
1	FID		ACIS-S-5	7.11	4913	-0.309	0.074	0.012	0.022	0.000000	0.000000	-1820.16	161.68
2	FID		ACIS-S-6	7.25	4913	0.156	-0.046	0.018	0.039	0.000000	0.000000	394.53	805.82
3	GUIDE	used	909641616	8.75	9820	0.094	0.109	0.152	0.255	324.489766	-23.068367	-1509.88	-1235.91
4	GUIDE	used	909644560	8.50	9824	-0.346	-0.429	0.158	0.263	325.777369	-23.053879	1191.42	2064.53
5	GUIDE	used	909645600	7.85	9825	-0.274	-0.072	0.124	0.219	325.172177	-23.906191	2248.78	-1440.67
6	GUIDE	used	909647192	8.97	9816	0.307	0.251	0.157	0.254	324.987552	-23.199068	-92.46	-271.44
7	GUIDE	used	909513480	9.70	9810	0.218	0.145	0.184	0.299	324.347426	-23.375320	-963.09	-2301.03

2.4 Star Slots

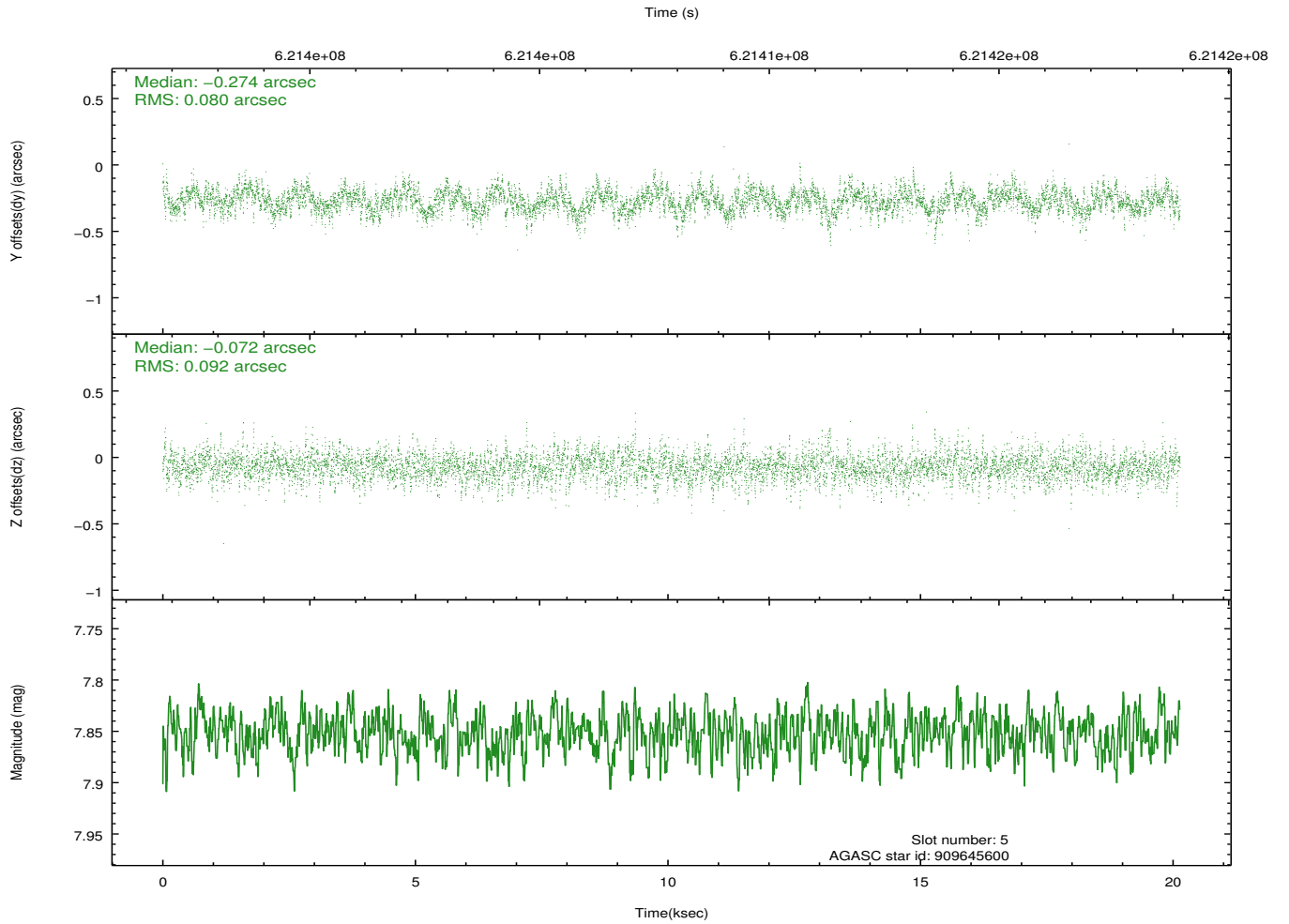
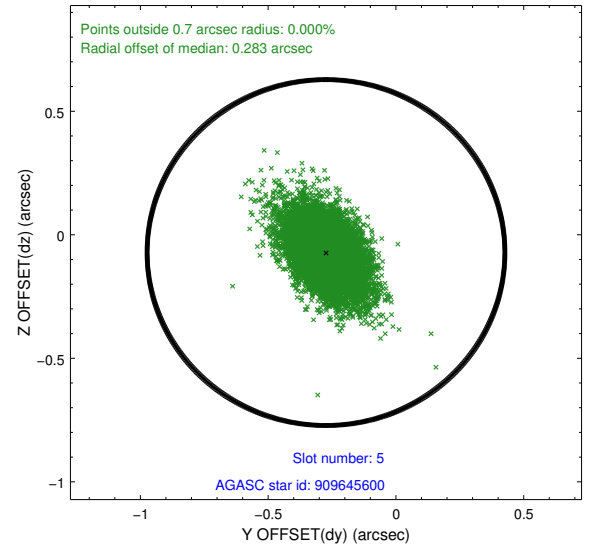
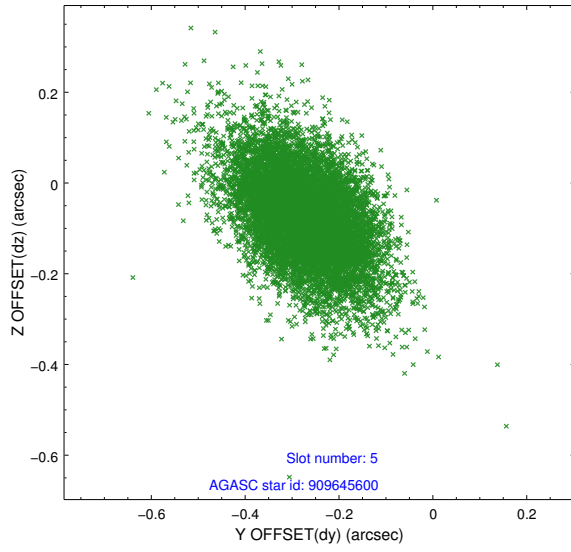
2.4.1 Slot 3



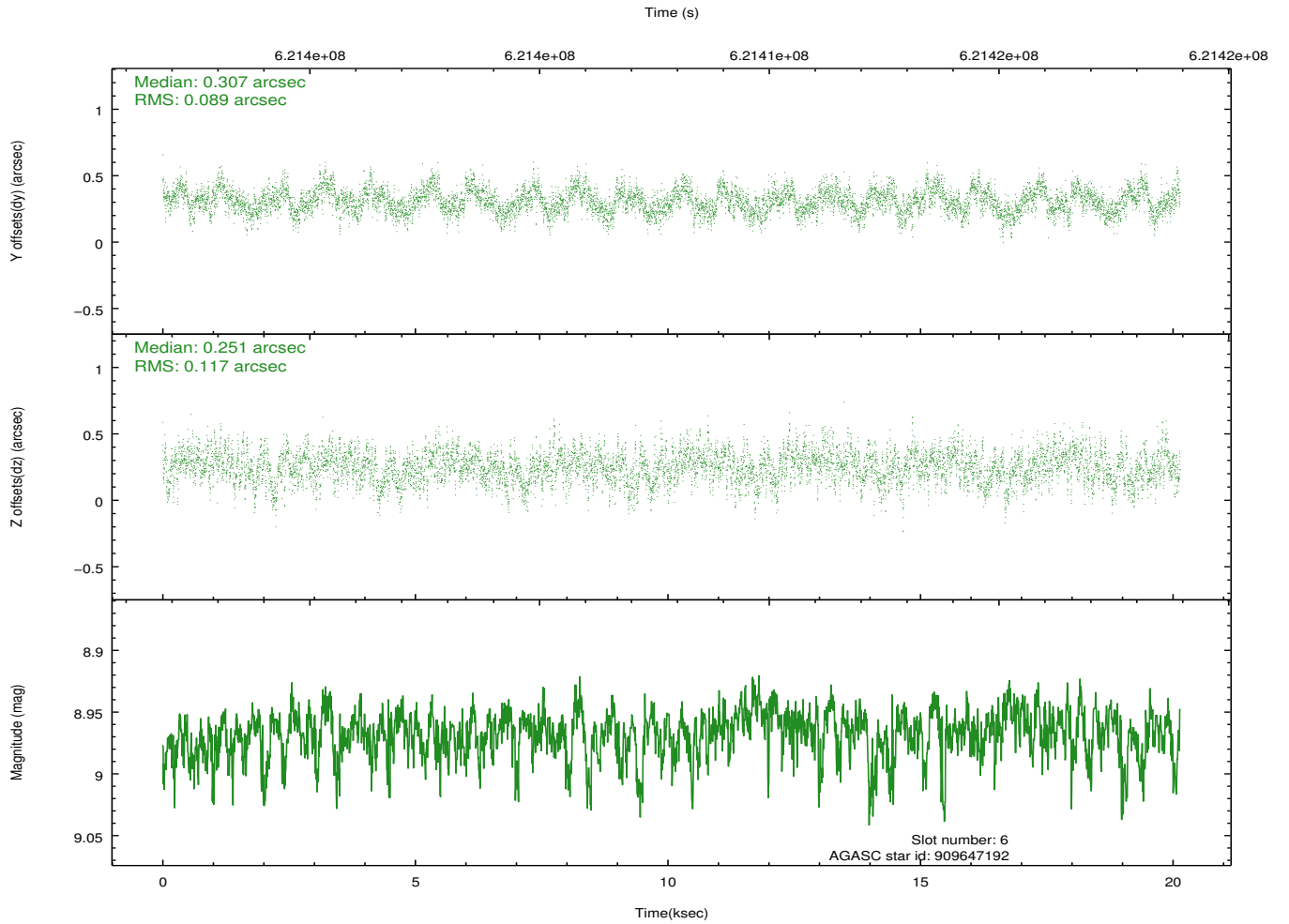
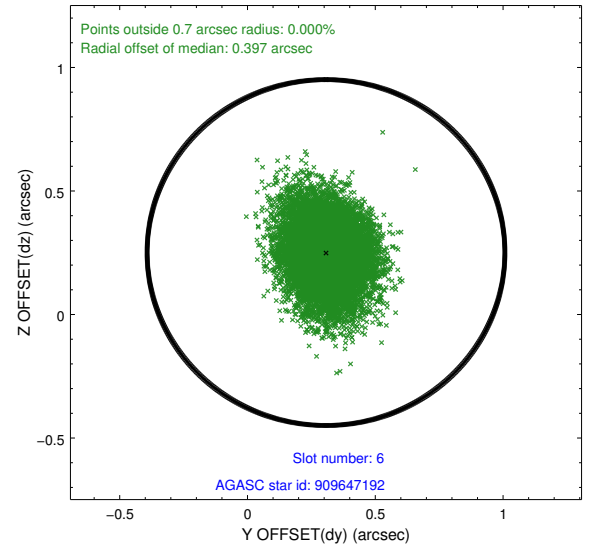
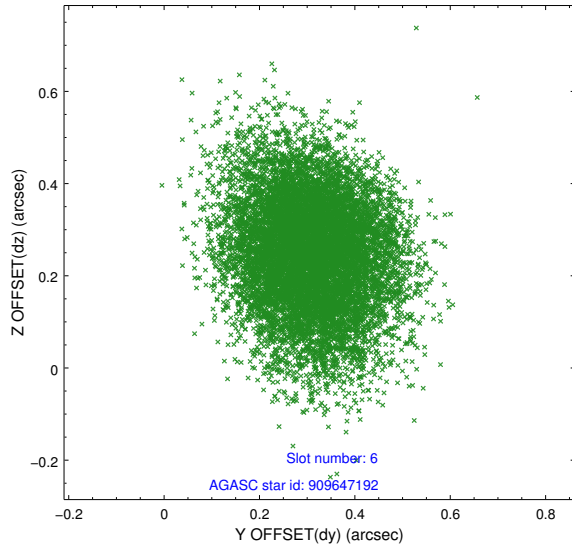
2.4.2 Slot 4



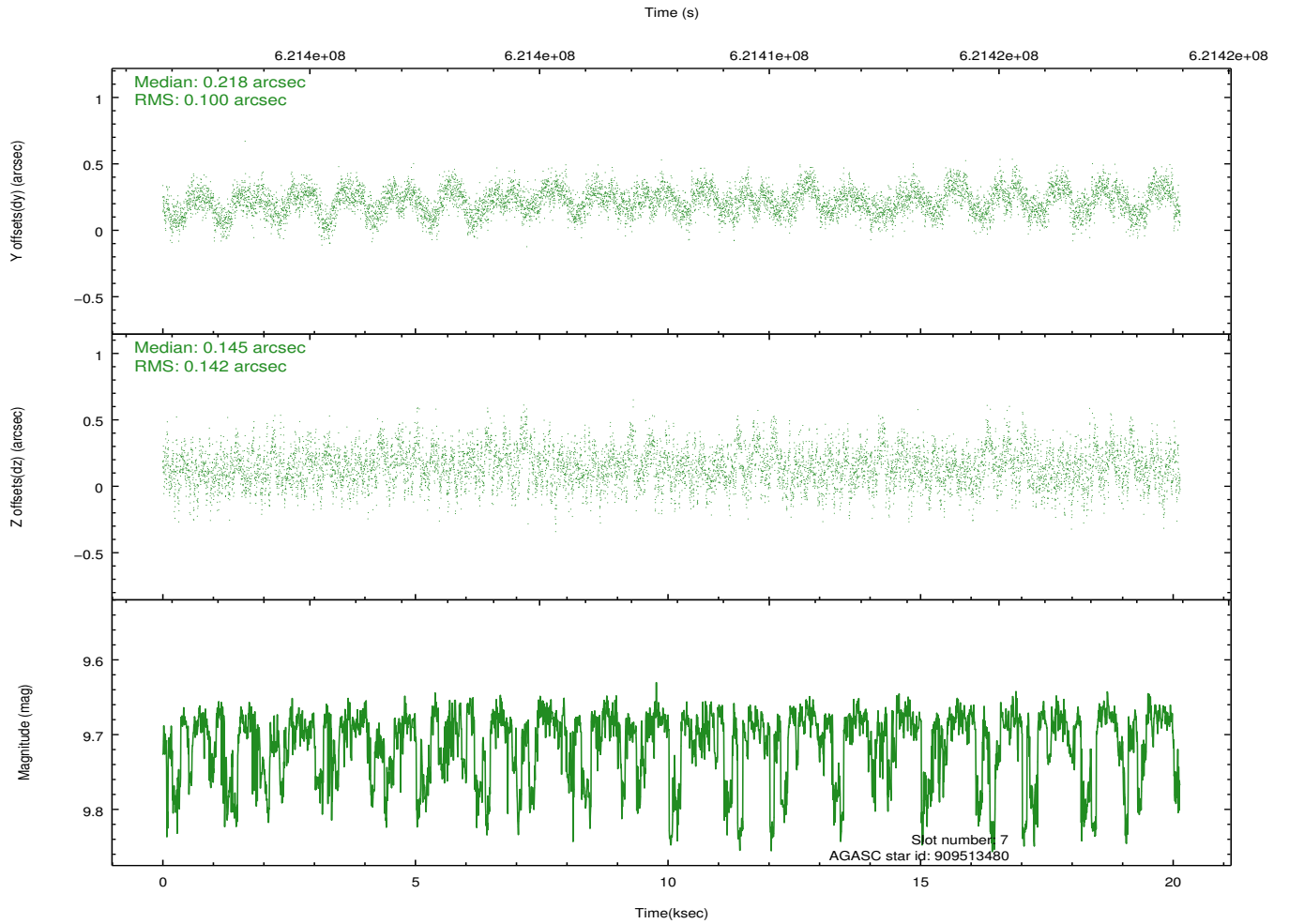
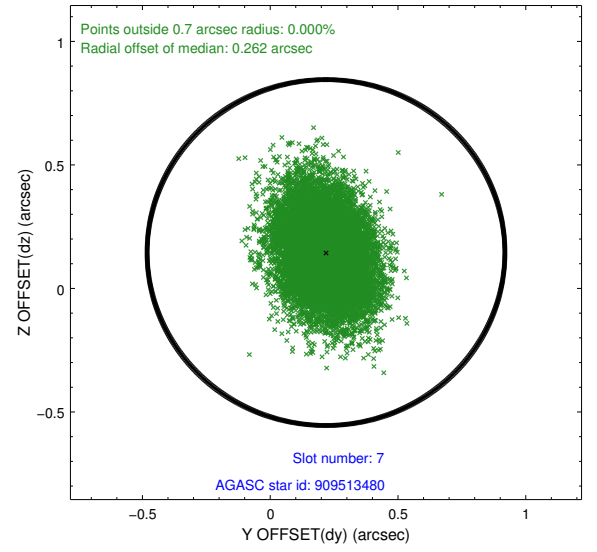
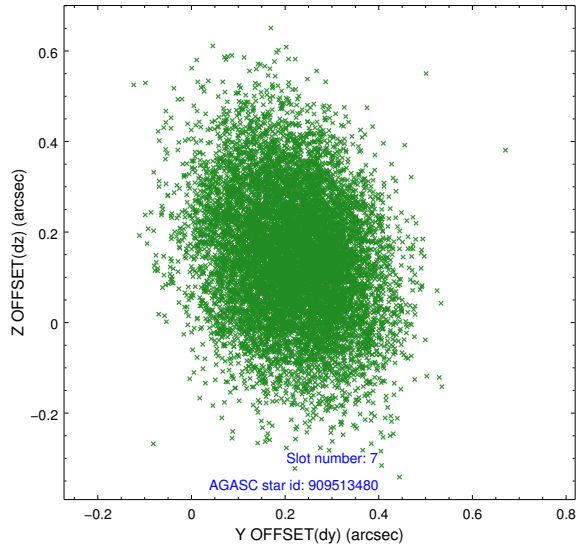
2.4.3 Slot 5



2.4.4 Slot 6

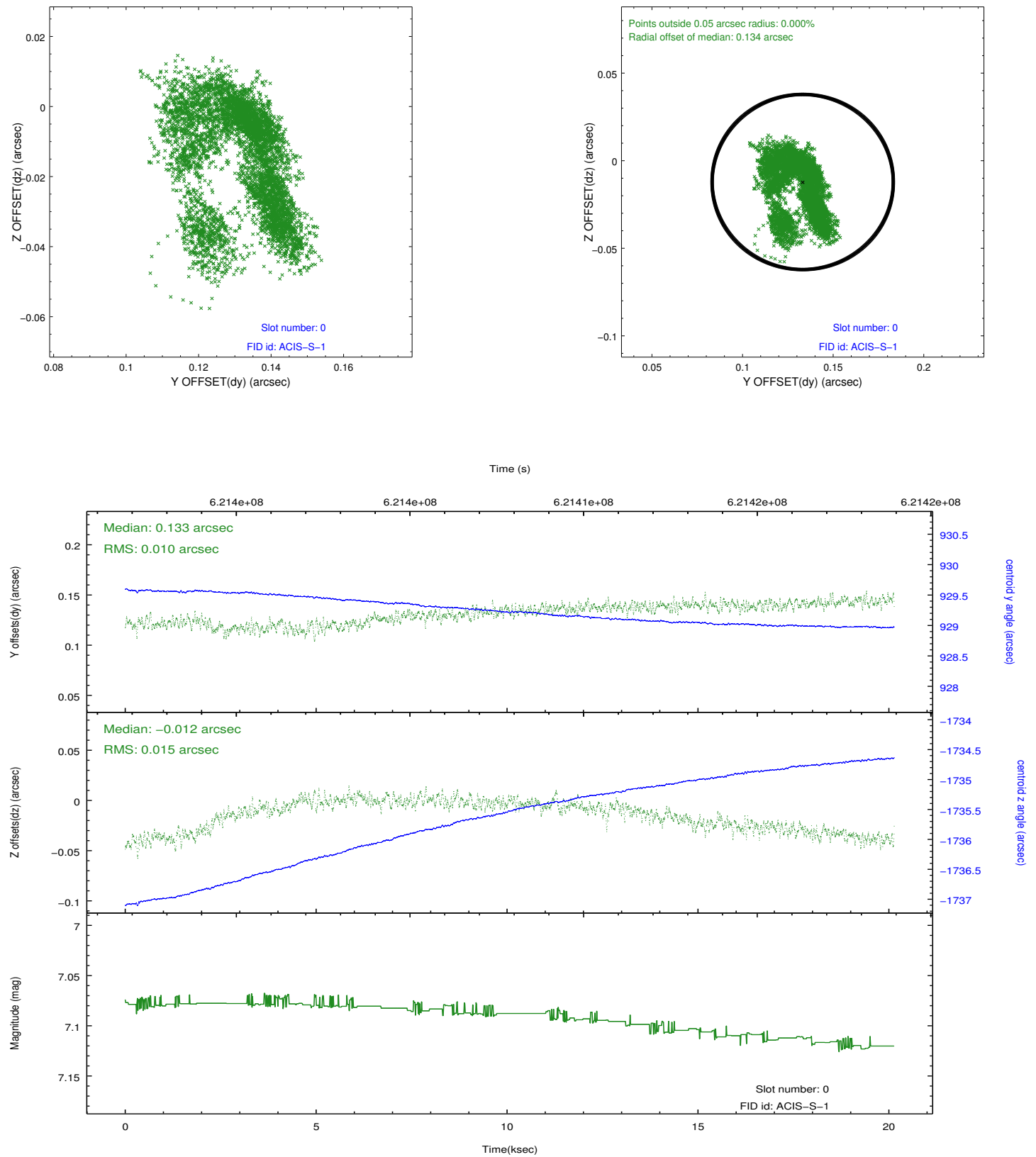


2.4.5 Slot 7

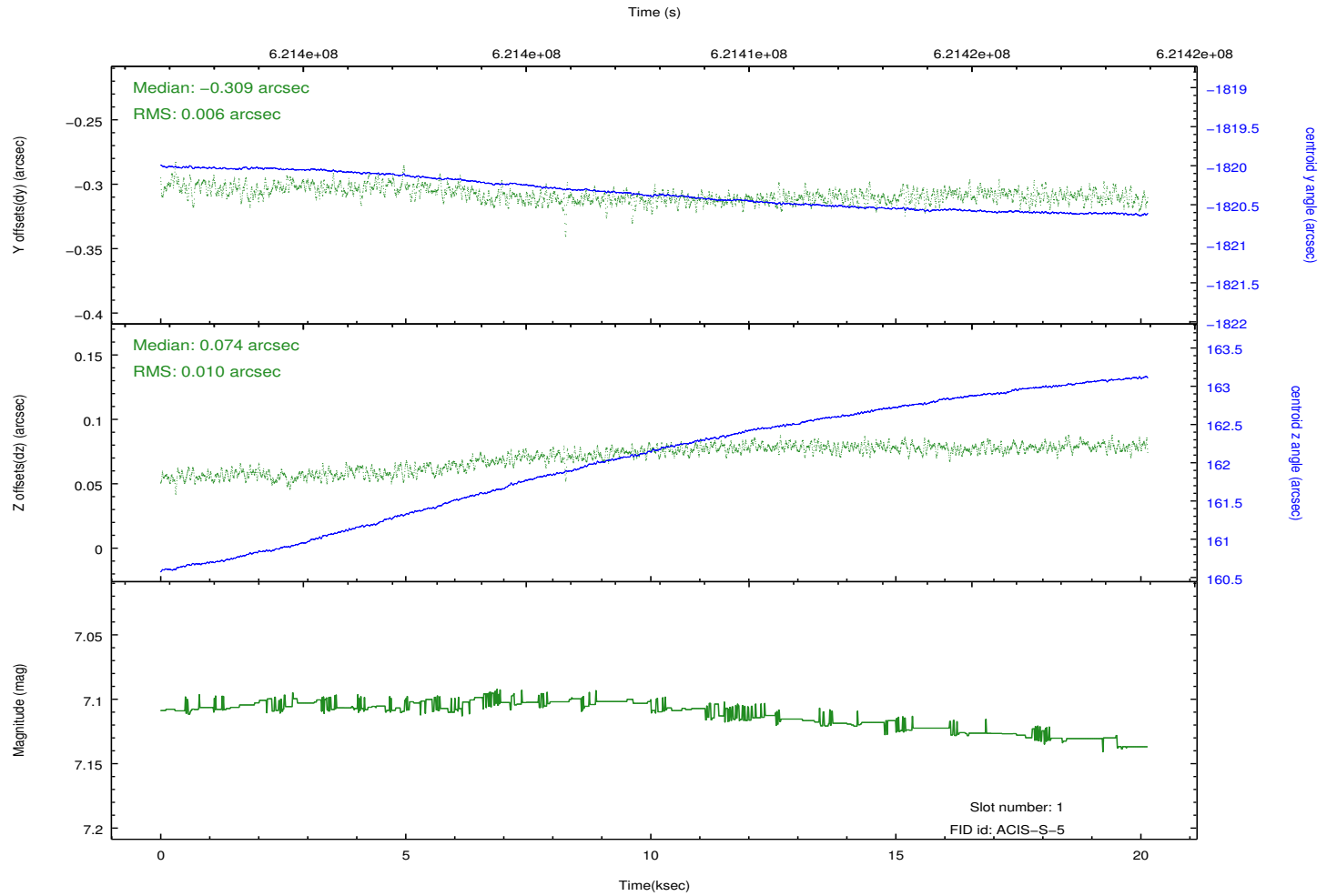
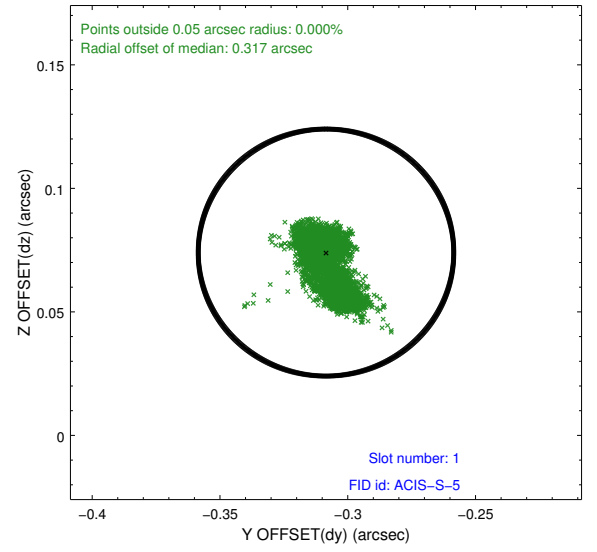
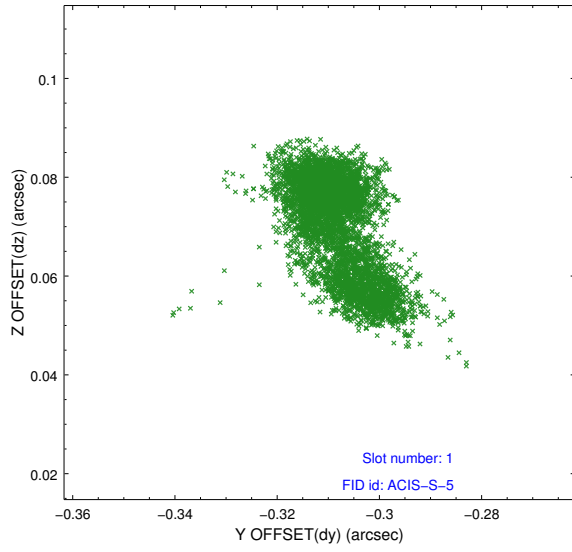


2.5 FID Slots

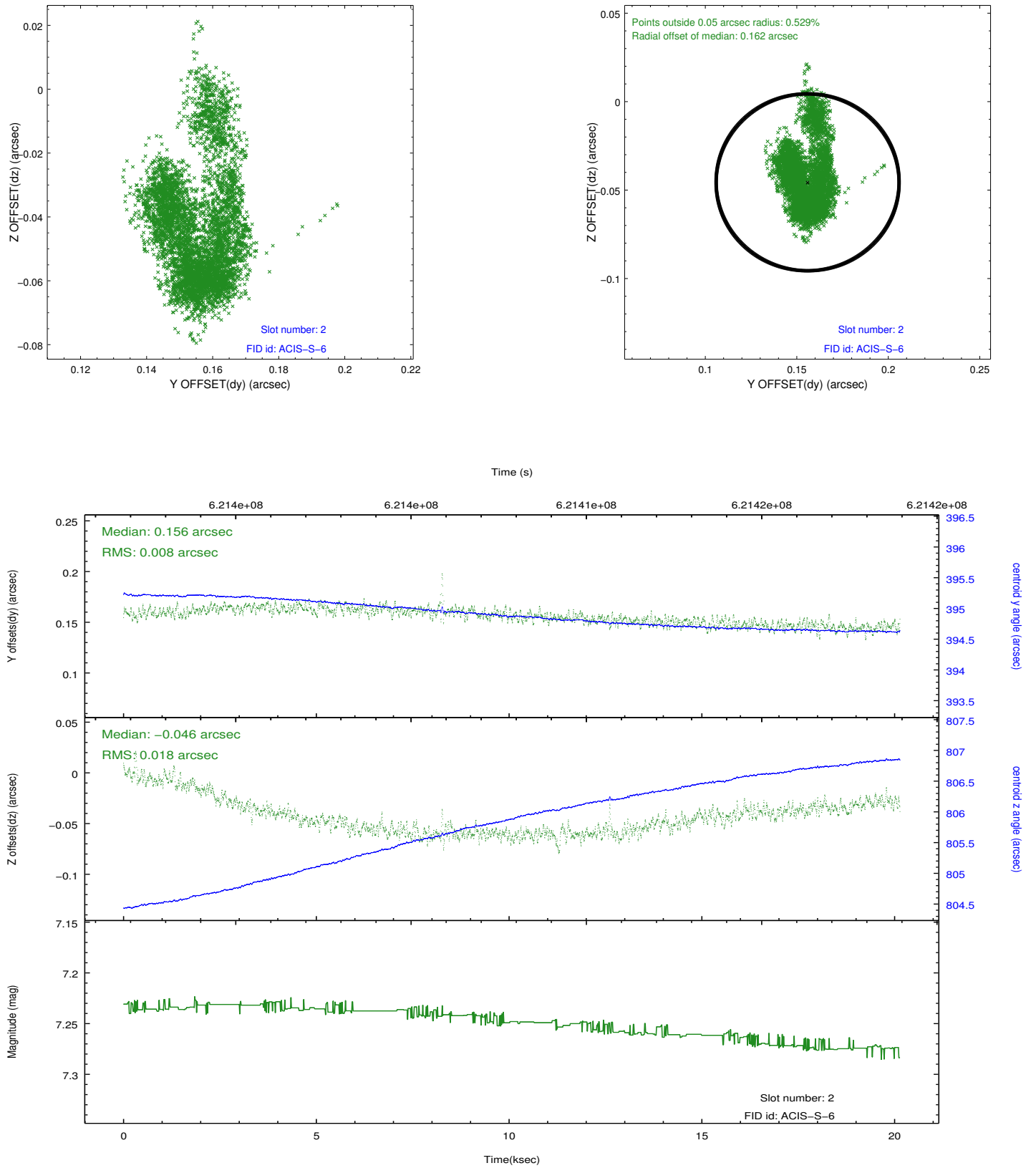
2.5.1 Slot 0



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)	2017.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.08349946785

A.2 Comments