

V&V Reference Report

L2 ASCDS Version : 10.5.2

Observation 20017 - L2 Version 1
Chandra X-Ray Center

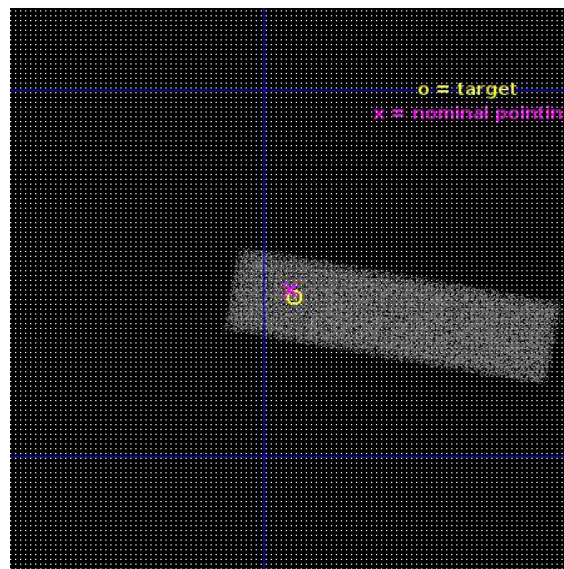
L2 Processing Date : Mar 5 2017

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1 Front

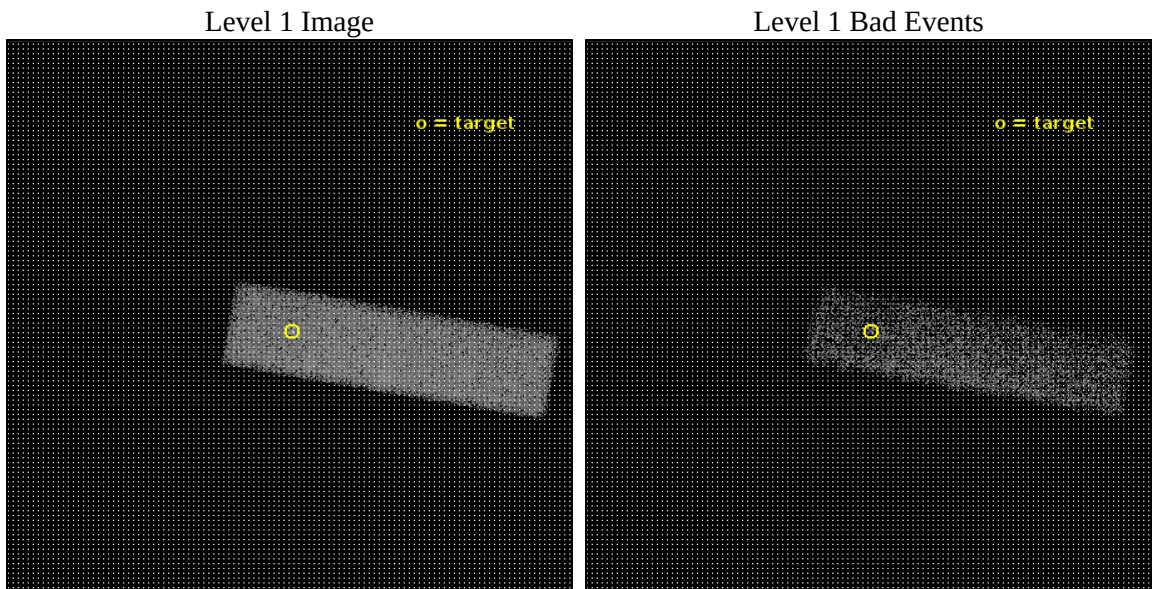
seq_num	201045	Sequence number
obs_id	20017	Observation id
title	Testing Colliding Wind Shock Models in the Eclipsing Wolf-Rayet Binary CQ Cep	Proposal title
observer	Stephen Skinner	Principal investigator
object	HD 214419	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	339.224792	Observer's specified target RA [deg]
dec_targ	56.905833	Observer's specified target Dec [deg]
ra_nom	339.22757209368	Nominal RA [deg]
dec_nom	56.909337478356	Nominal Dec [deg]
roll_nom	10.154304675421	Nominal Roll [deg]
revision	1	Processing version of data
ontime	31703.198110342	Sum of GTIs [s]
livetime	30156.185779837	Livetime [s]
ontime7	31703.198110342	Sum of GTIs [s]
l2events	30789	Number of level 2 events



2 OBI

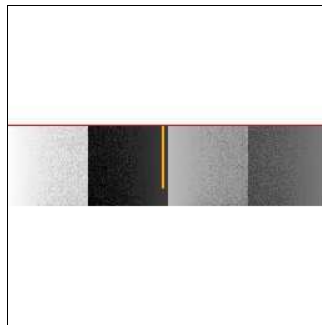
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	31640.000000	[s] Scheduled observation exposure time
ascdsver	10.5.2	Processing system revision	ontime	31703.198110342	Sum of GTIs [s]
caldsver	4.7.3	 	ontime7	31703.198110342	Sum of GTIs [s]
date	2017-03-06T00:43:42	Date and time of file creation	l1events	60333	Number of level 1 events
revision	1	Processing version of data			

2.1.4 Events

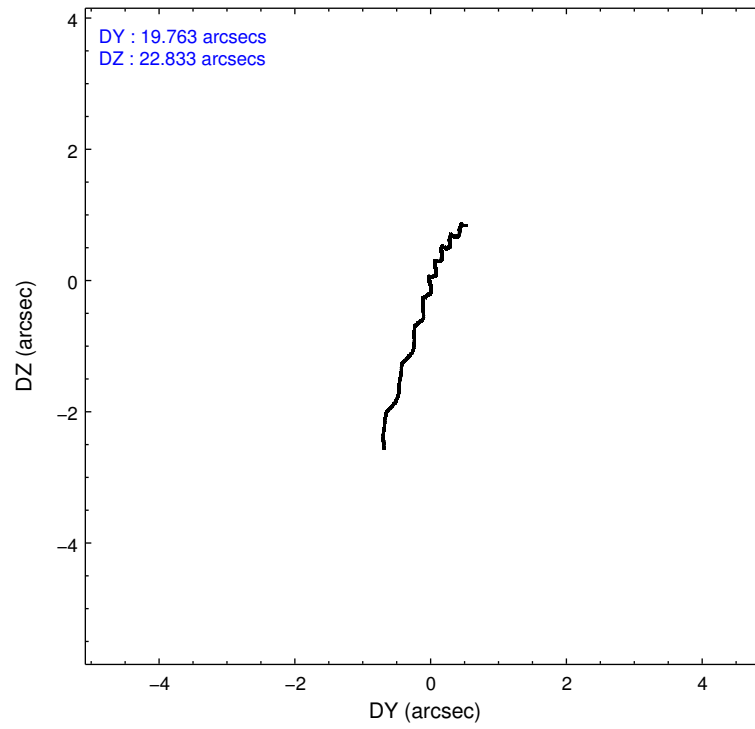
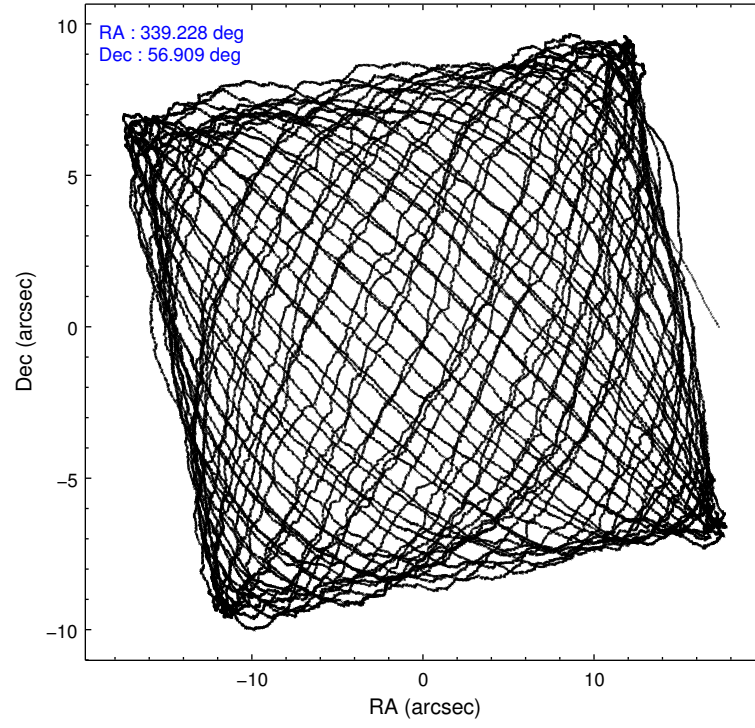
	ccd 7
level 1 events	60333
rejected events	28429
rejected %	47%

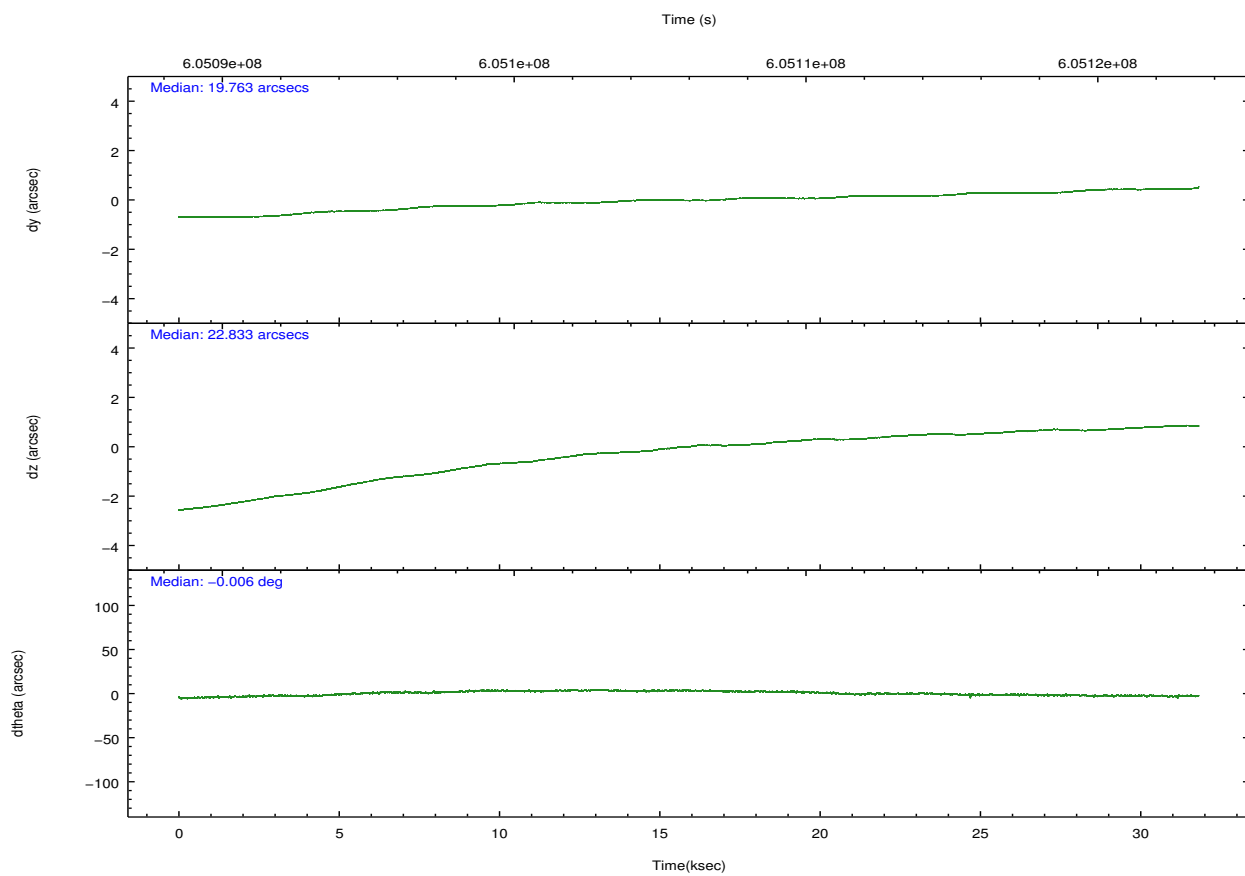
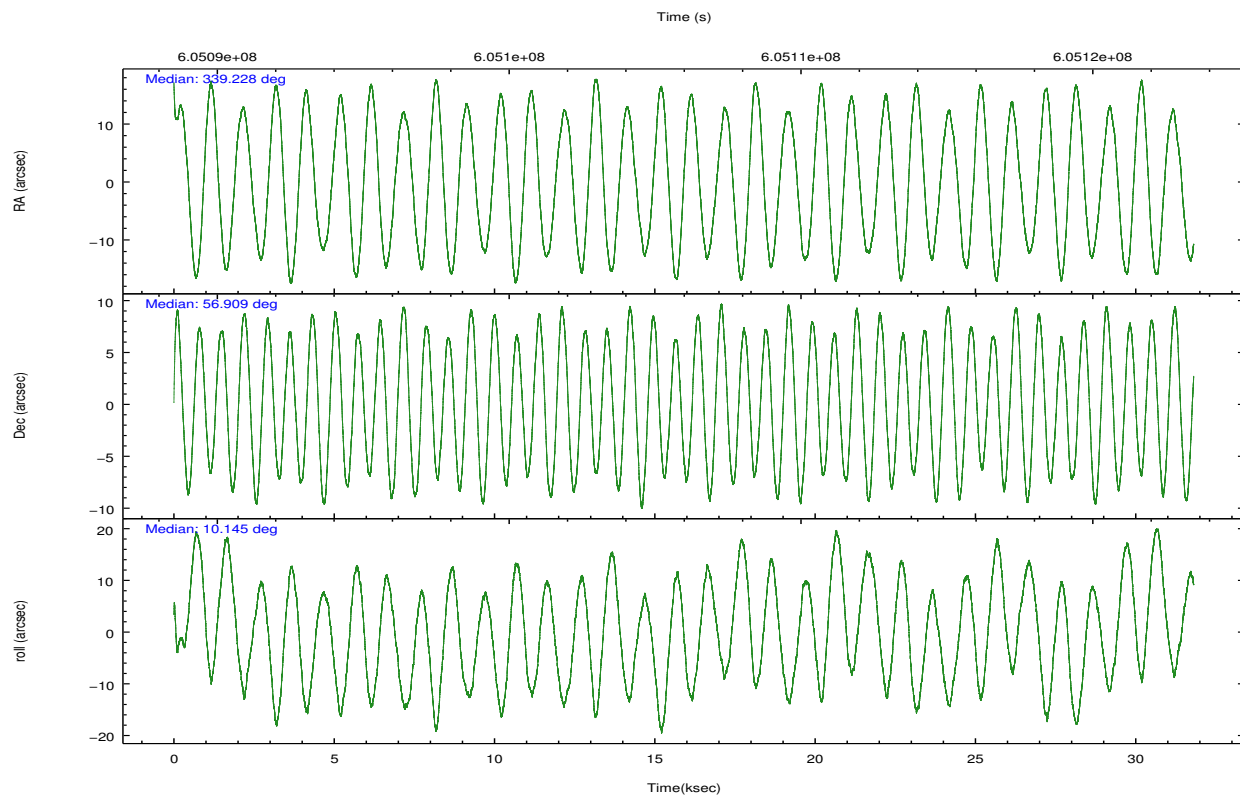
	ccd 7
grade 0 events	3518
	5%
grade 1 events	125
	0%
grade 2 events	6908
	11%
grade 3 events	3755
	6%
grade 4 events	3503
	5%
grade 5 events	6462
	10%
grade 6 events	14220
	23%
grade 7 events	21842
	36%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	339.189593	339.2275720936818	Subarray requested	CUSTOM	1/4
[deg] Pointing Dec	56.891359	56.90933747835647	Subarray start row	385	385
[deg] Pointing Roll	10.029486	10.15430467542074	Subarray row count	256	256
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.8
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
Phase constraints	Y	Y			
[d] Phase period	1.641240	1.641240			
[d] Phase epoch (MJD)	56370.705613	56370.705613			
Phase start	0.450000	0.450000			
Phase end	0.040000	0.040000			
Phase start error	0.015000	0.015000			
Phase end error	0.015000	0.015000			
[s] Observation start time (MET)	605090245.184000	605089013.75543			
Observation start date	2017-03-05T08:36:16	2017-03-05T08:16:53			
[s] Observation end time (MET)	605121885.184000	605122874.11989			
Observation end date	2017-03-05T17:23:36	2017-03-05T17:41:14			
Read mode	TIMED	TIMED			

2.3 Aspect



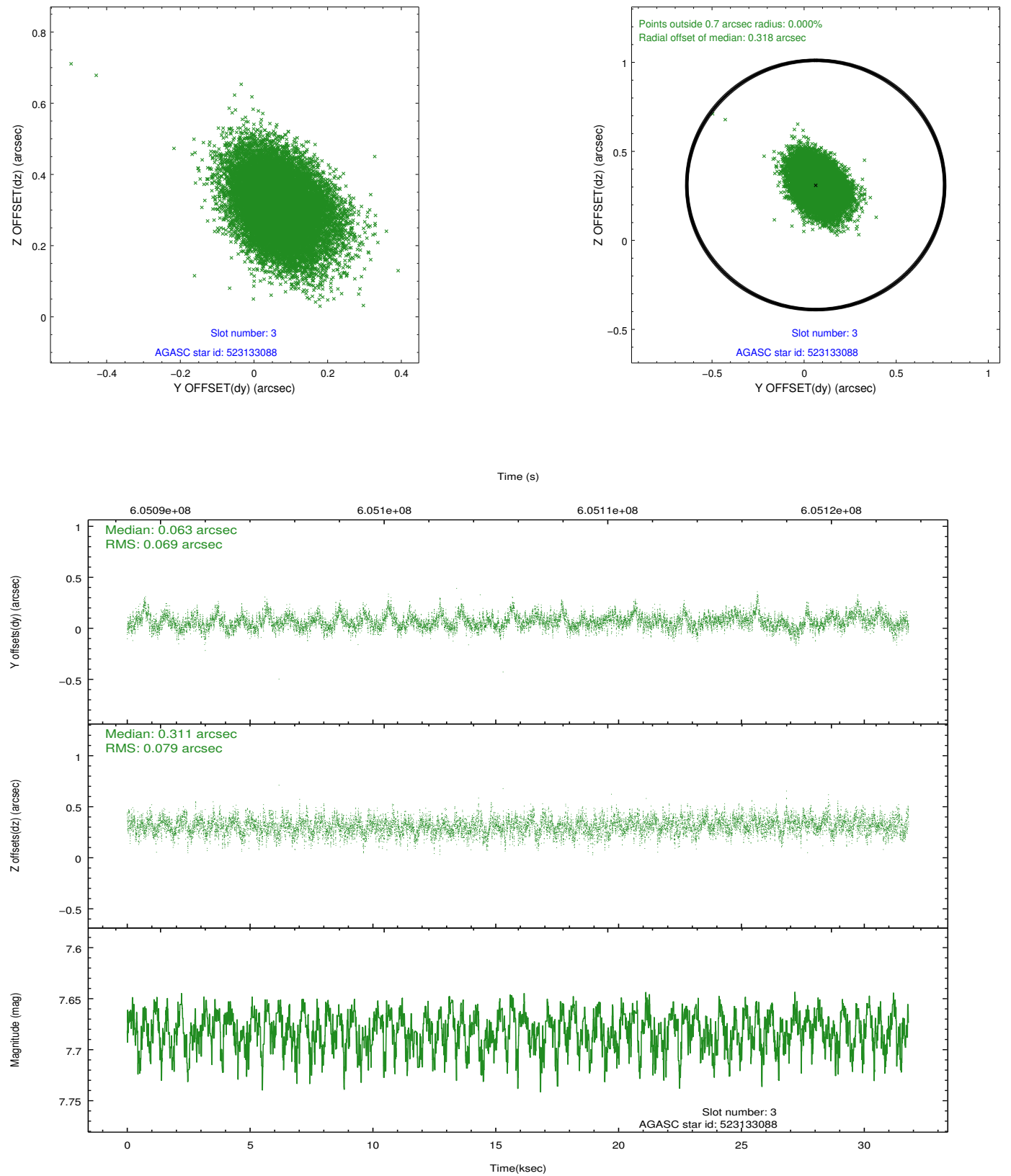


Slot Statistics

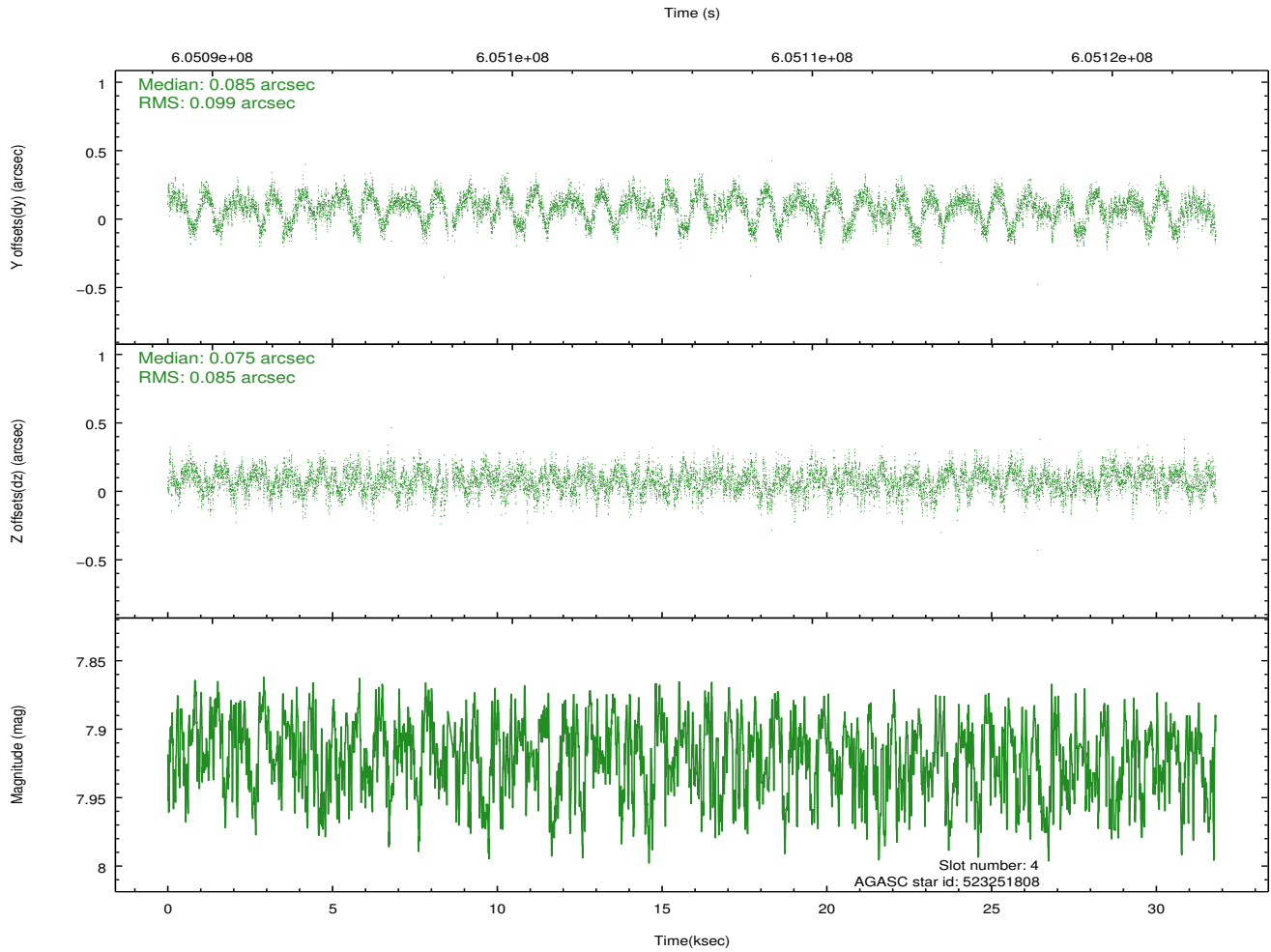
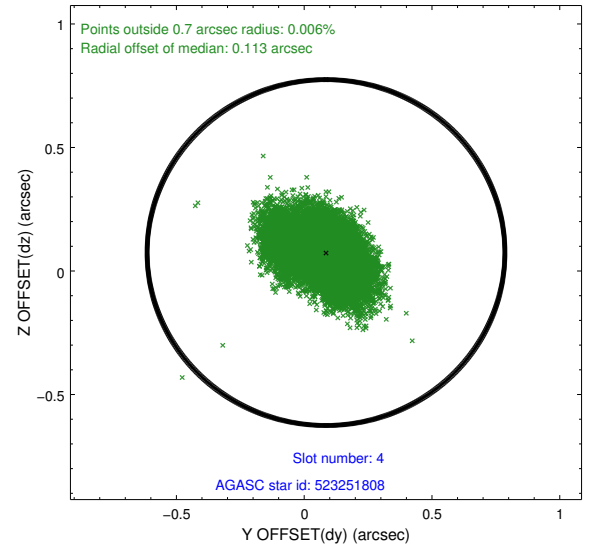
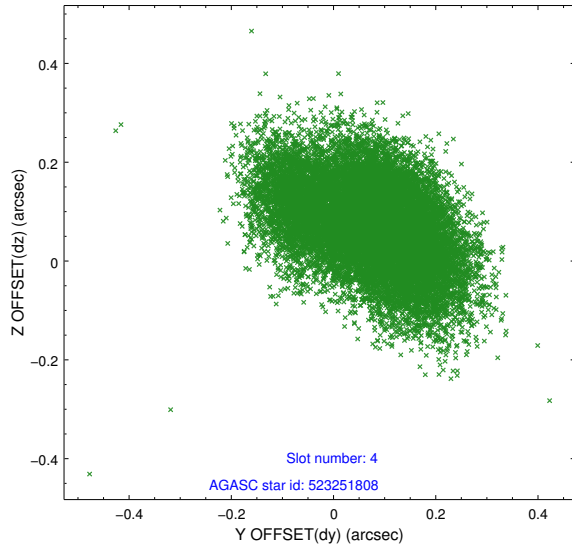
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-4	7.10	7756	0.338	0.021	0.015	0.025	0.000000	0.000000	2140.88	164.65
1	FID		ACIS-S-5	7.11	7758	-0.400	0.005	0.011	0.037	0.000000	0.000000	-1825.98	158.03
2	FID		ACIS-S-6	7.25	7758	0.038	-0.012	0.014	0.025	0.000000	0.000000	388.76	801.81
3	GUIDE	used	523133088	7.68	15512	0.063	0.311	0.110	0.184	339.713736	56.449525	751.11	-1743.40
4	GUIDE	used	523251808	7.92	15453	0.085	0.075	0.139	0.227	340.217284	56.829457	1957.40	-556.55
5	GUIDE	used	523120288	8.14	15449	0.002	0.080	0.110	0.189	337.832302	57.243756	-2377.79	1735.41
6	GUIDE	used	523114272	9.30	15491	-0.110	-0.435	0.145	0.249	339.681878	57.611510	1386.49	2391.06
7	GUIDE	used	523116960	8.97	7753	-0.052	-0.053	0.151	0.256	339.224810	56.905829	77.51	39.68

2.4 Star Slots

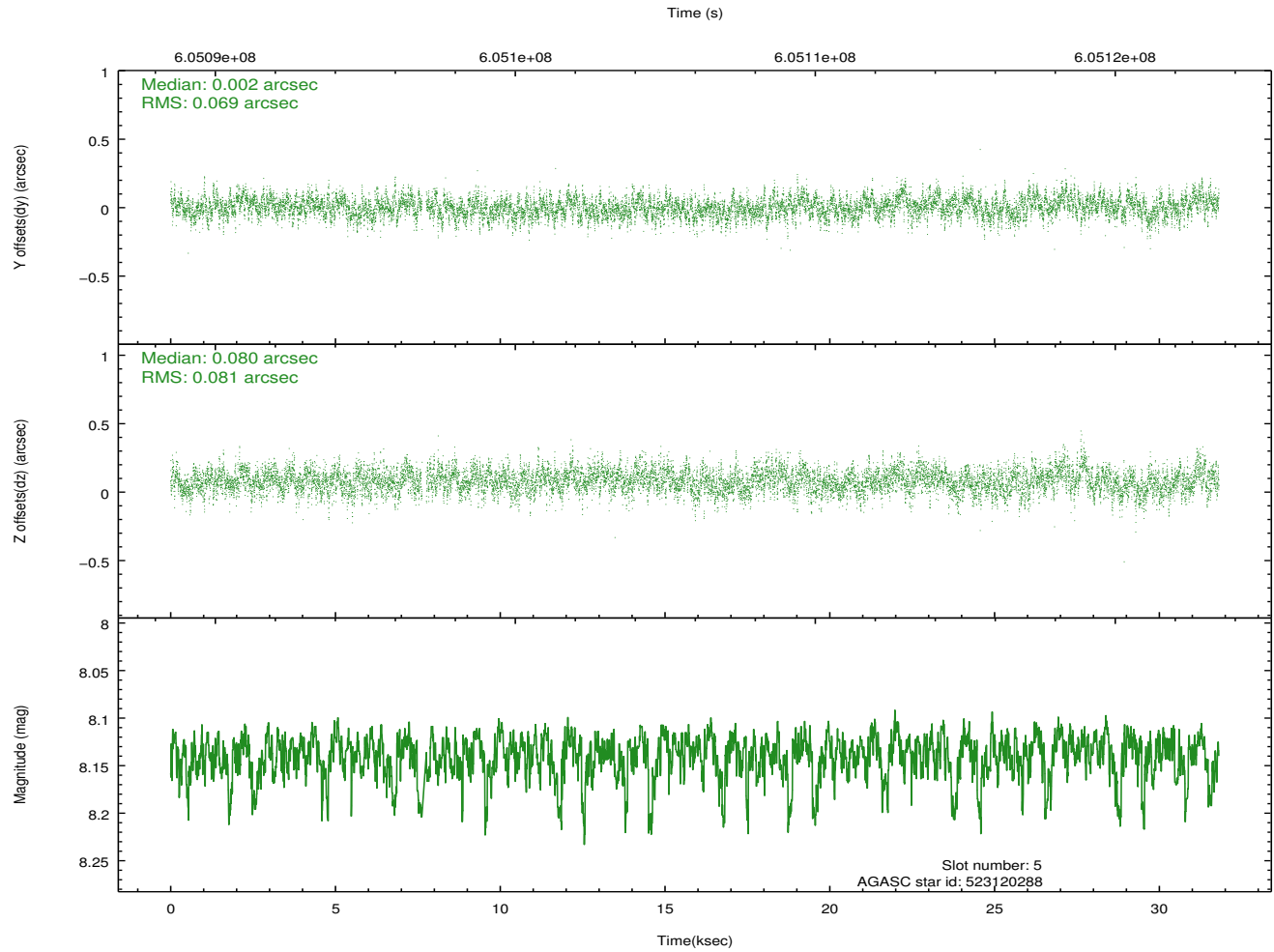
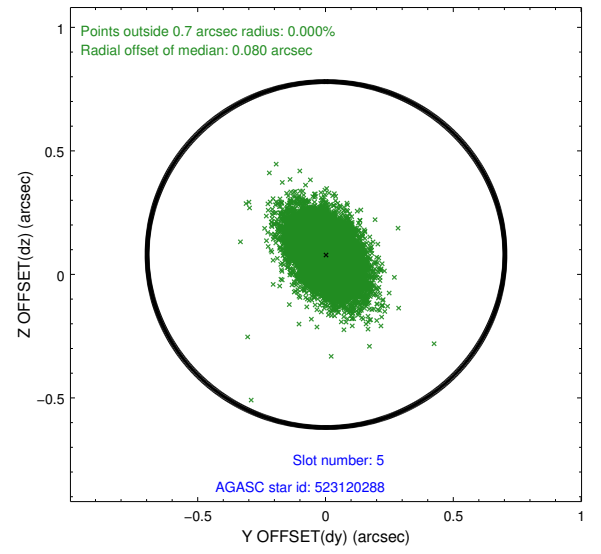
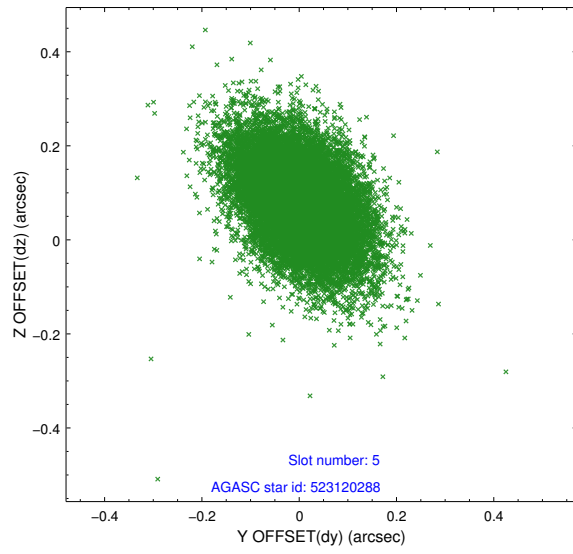
2.4.1 Slot 3



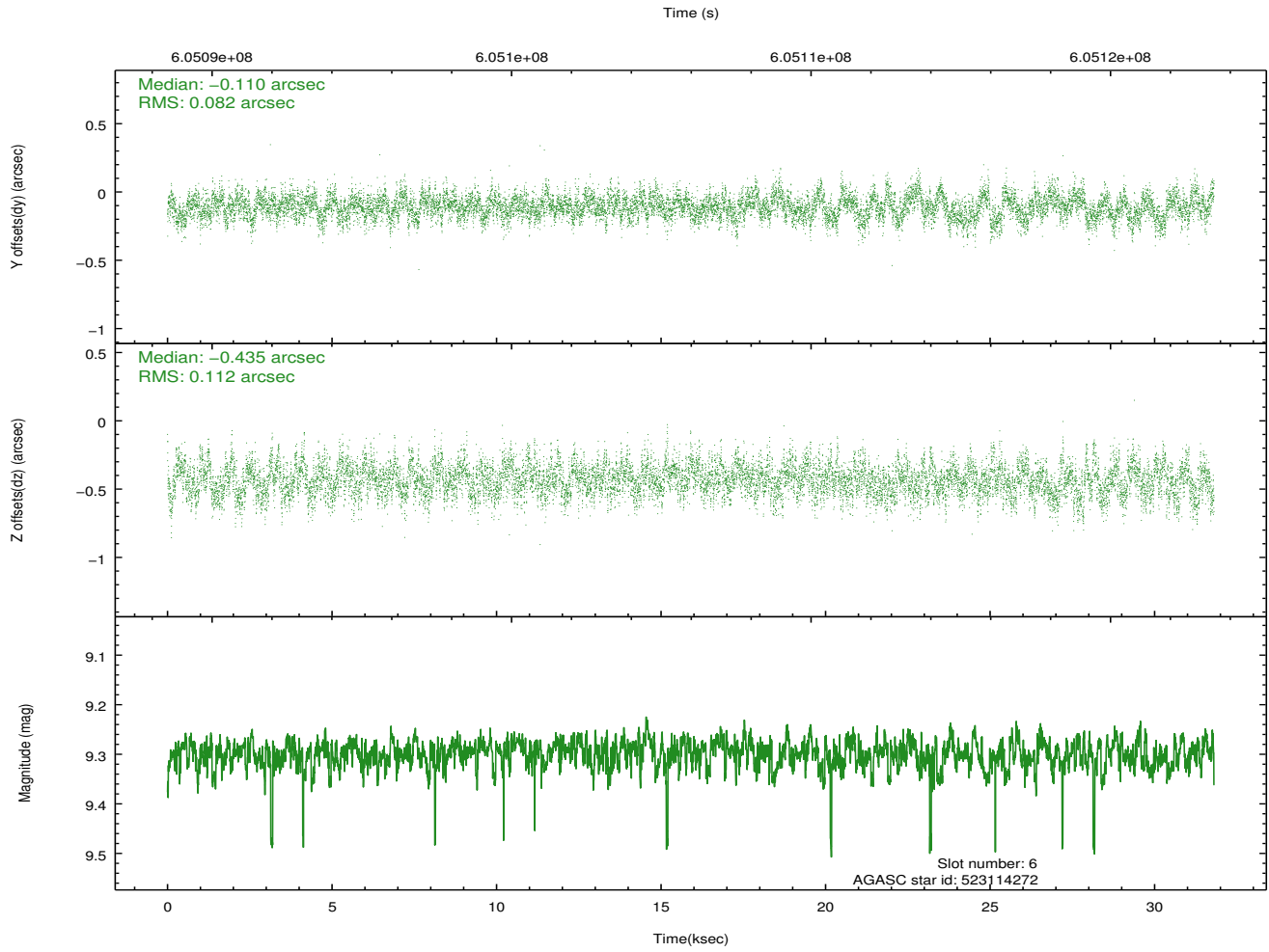
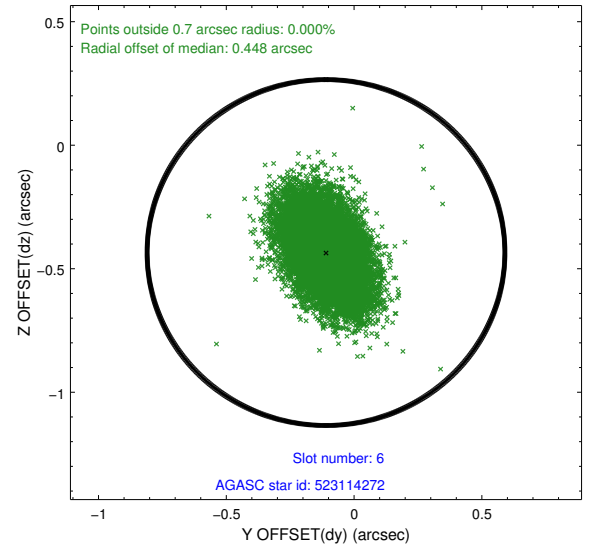
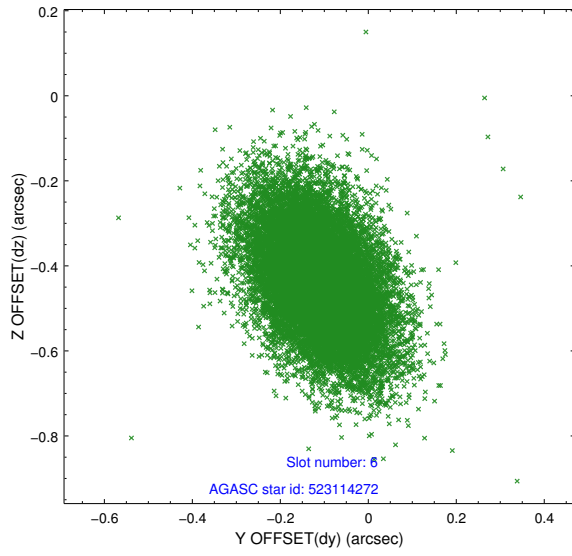
2.4.2 Slot 4



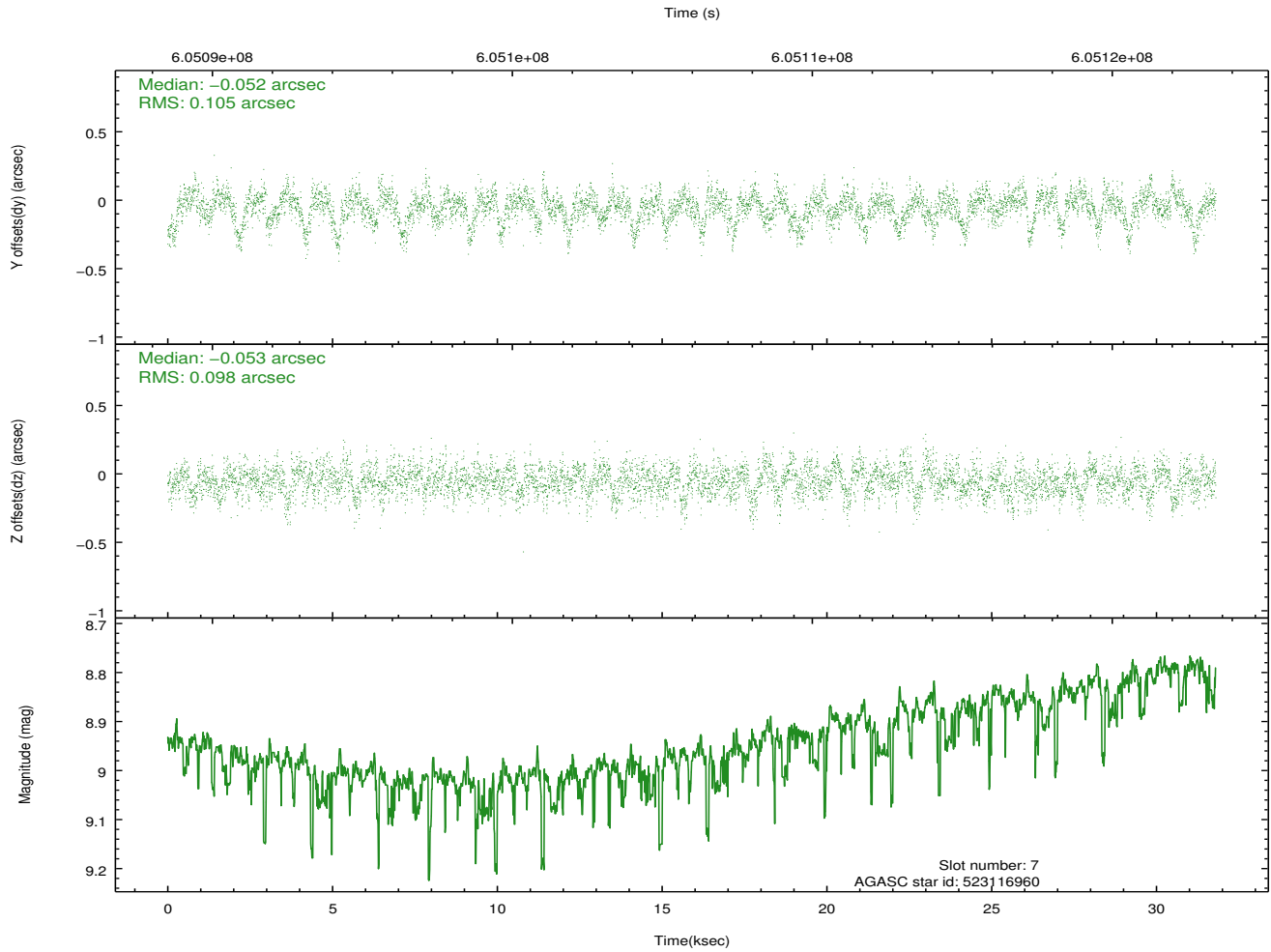
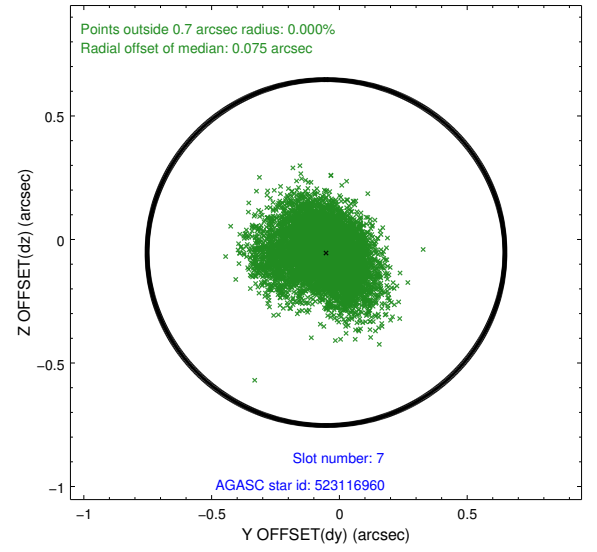
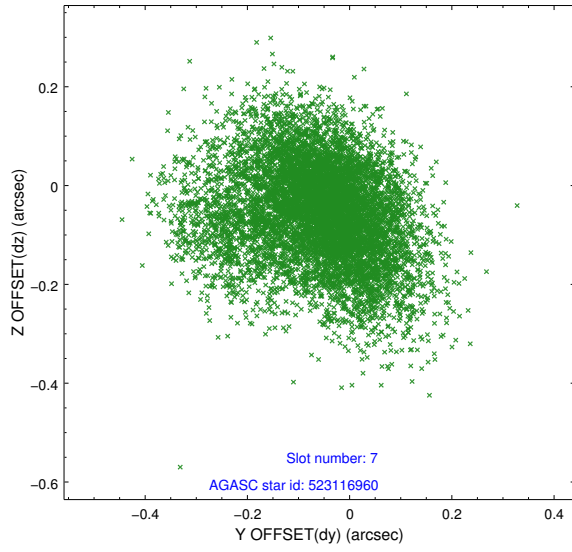
2.4.3 Slot 5



2.4.4 Slot 6

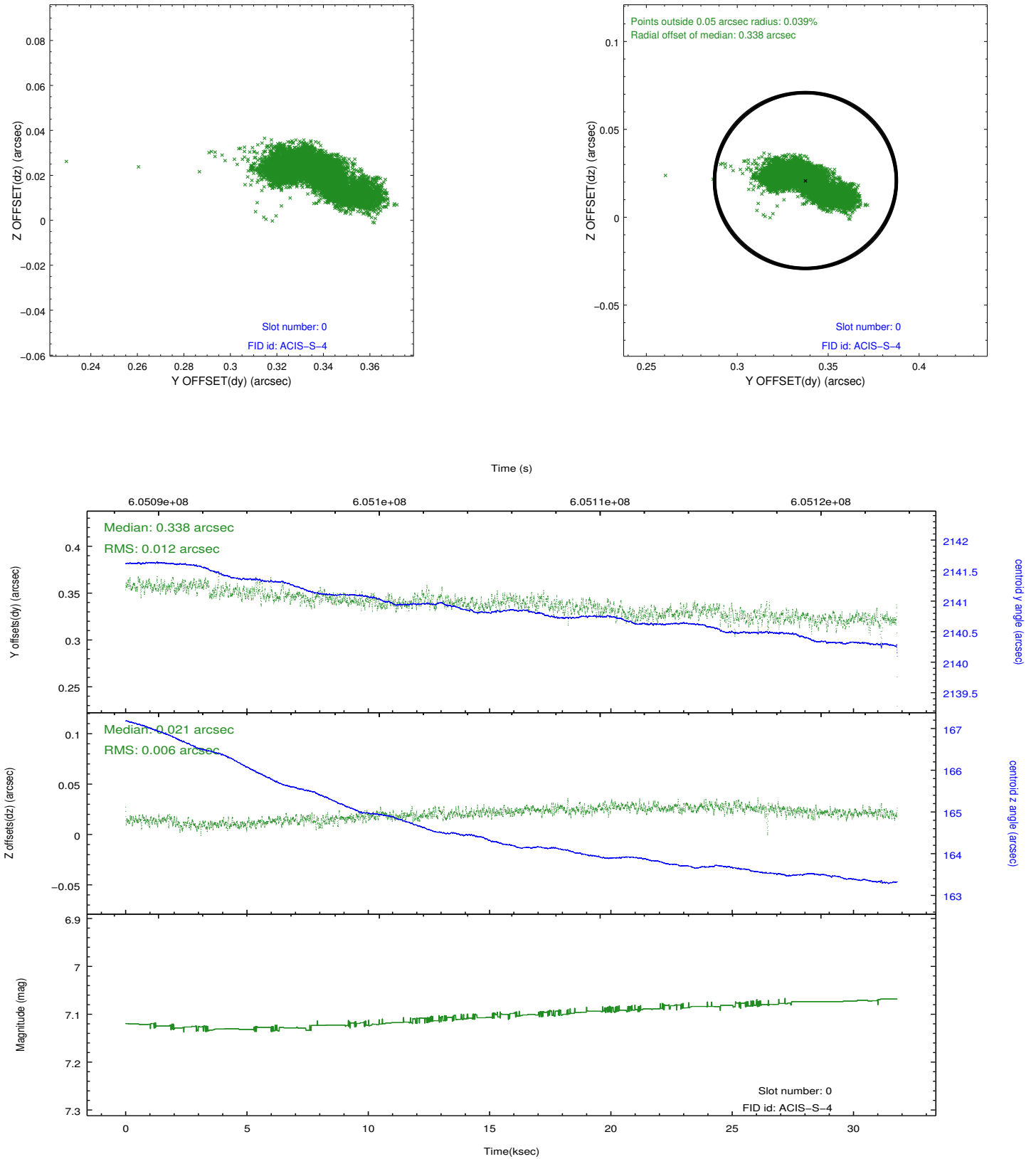


2.4.5 Slot 7

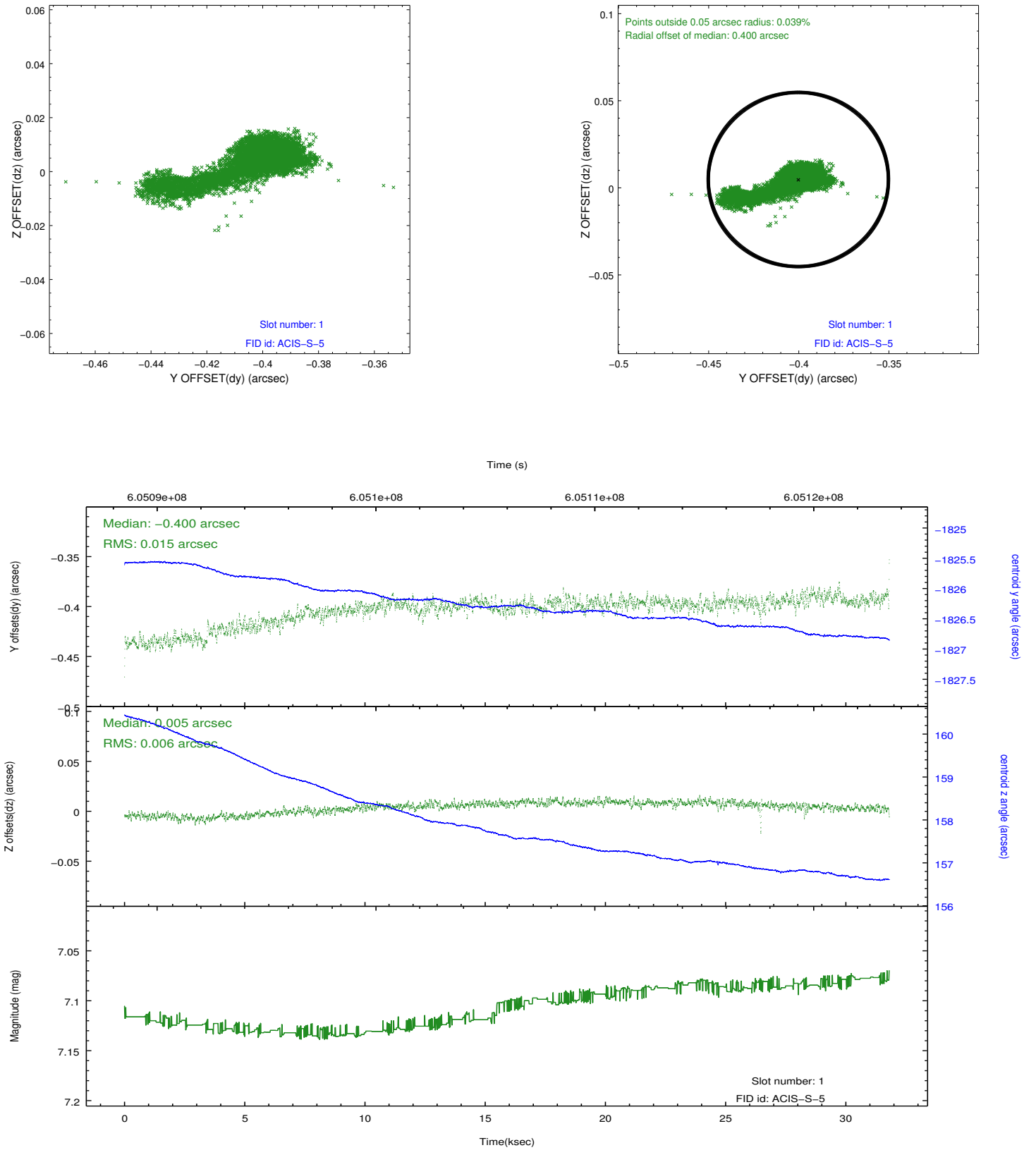


2.5 FID Slots

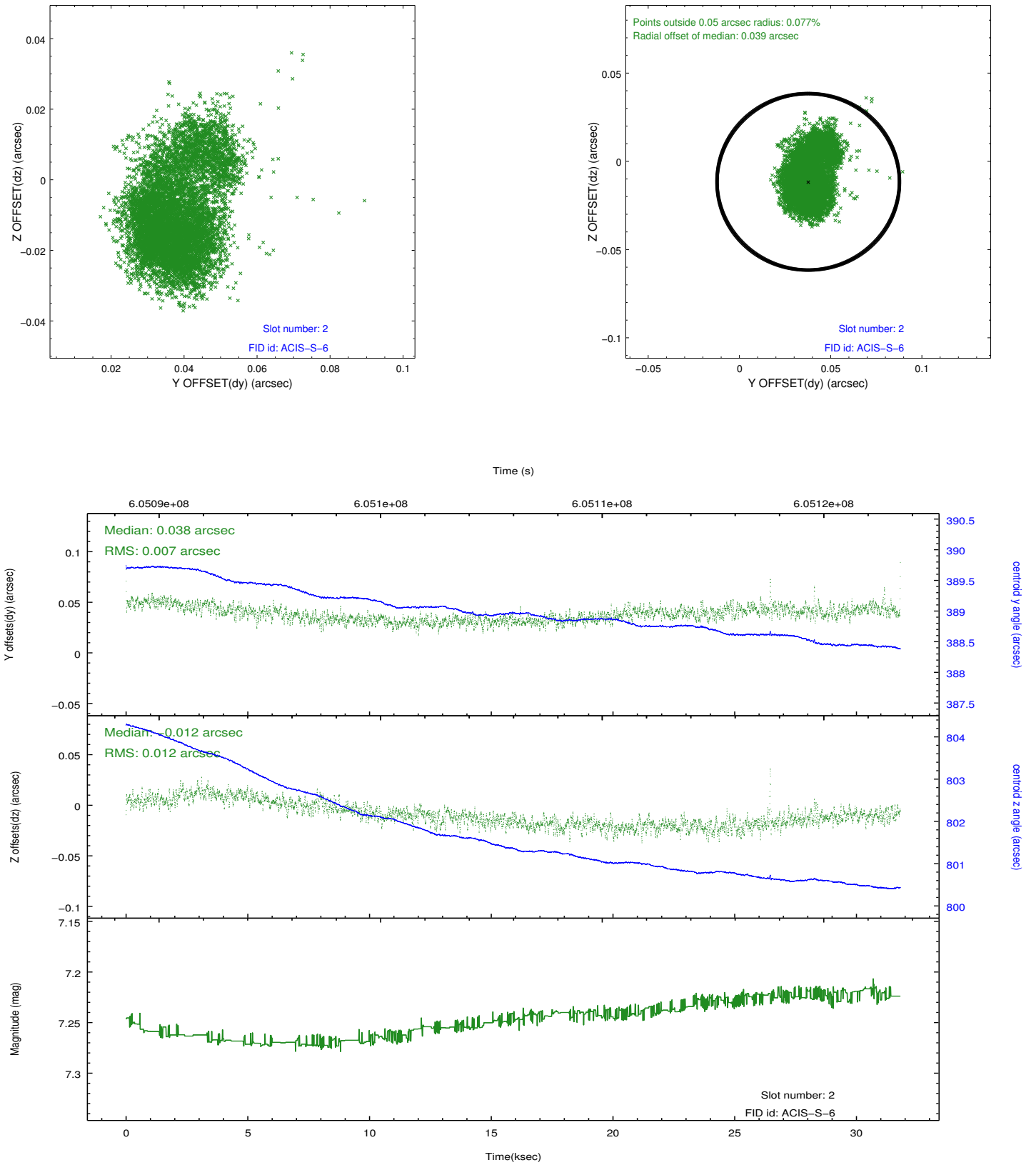
2.5.1 Slot 0



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)	2017.03.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.703198110342

A.2 Comments

The target is optically monitored in slot 7.