

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 17533 - L2 Version 1
Chandra X-Ray Center

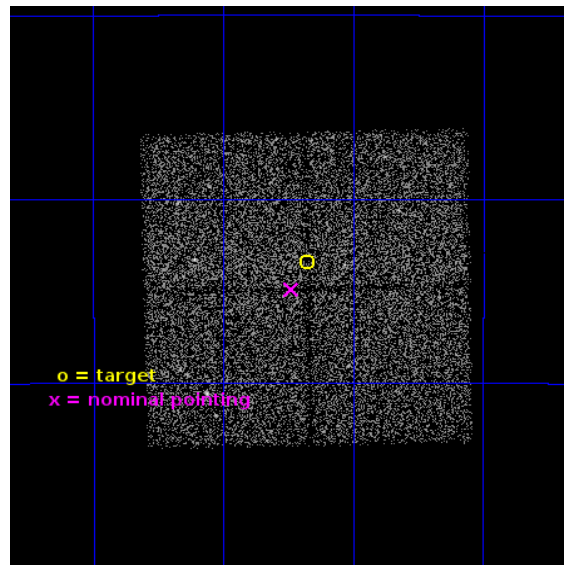
L2 Processing Date : Oct 20 2014

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1 Front

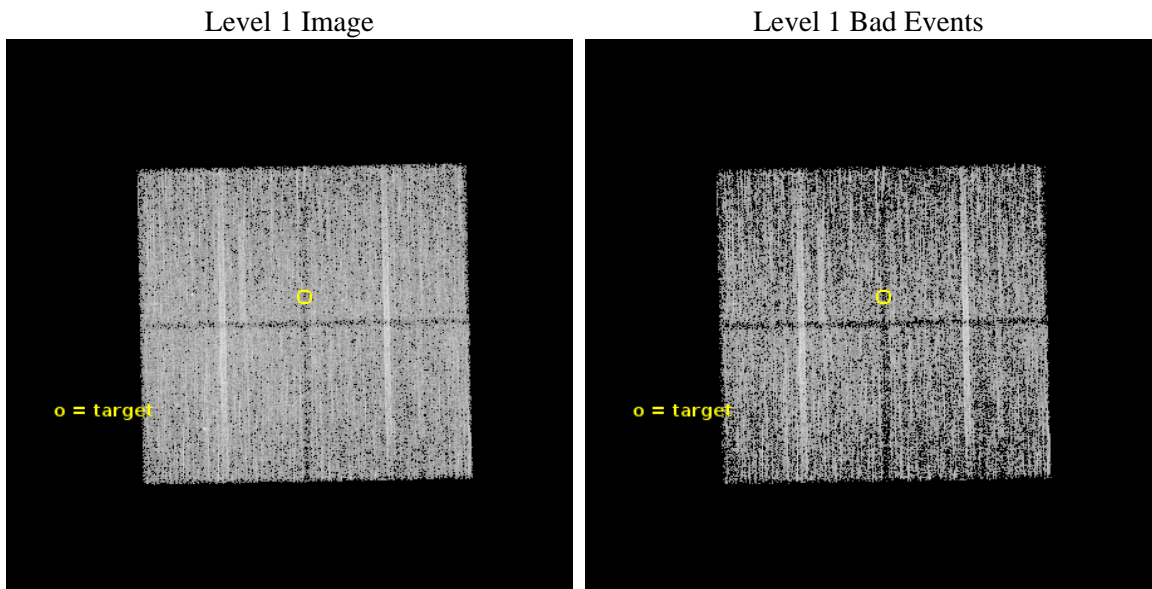
seq_num	100154	Sequence number
obs_id	17533	Observation id
title	Chandra Observations of Comet C/2013 A1 (Siding Spring)'s Encounter With Mars	Proposal title
observer	Dr. Carey Lisse	Principal investigator
object	Mars/Comet C/2013 A1 Siding Spring	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	264.6695	Observer's specified target RA [deg]
dec_targ	-24.8907	Observer's specified target Dec [deg]
ra_nom	264.6844022191	Nominal RA [deg]
dec_nom	-24.91487490254	Nominal Dec [deg]
roll_nom	268.91002965358	Nominal Roll [deg]
revision	1	Processing version of data
ontime	18178.400139809	Sum of GTIs [s]
livetime	17940.885959239	Livetime [s]
ontime0	18178.400139809	Sum of GTIs [s]
ontime1	18178.400139809	Sum of GTIs [s]
ontime2	18175.259169459	Sum of GTIs [s]
ontime3	18178.400139809	Sum of GTIs [s]
l2events	29796	Number of level 2 events



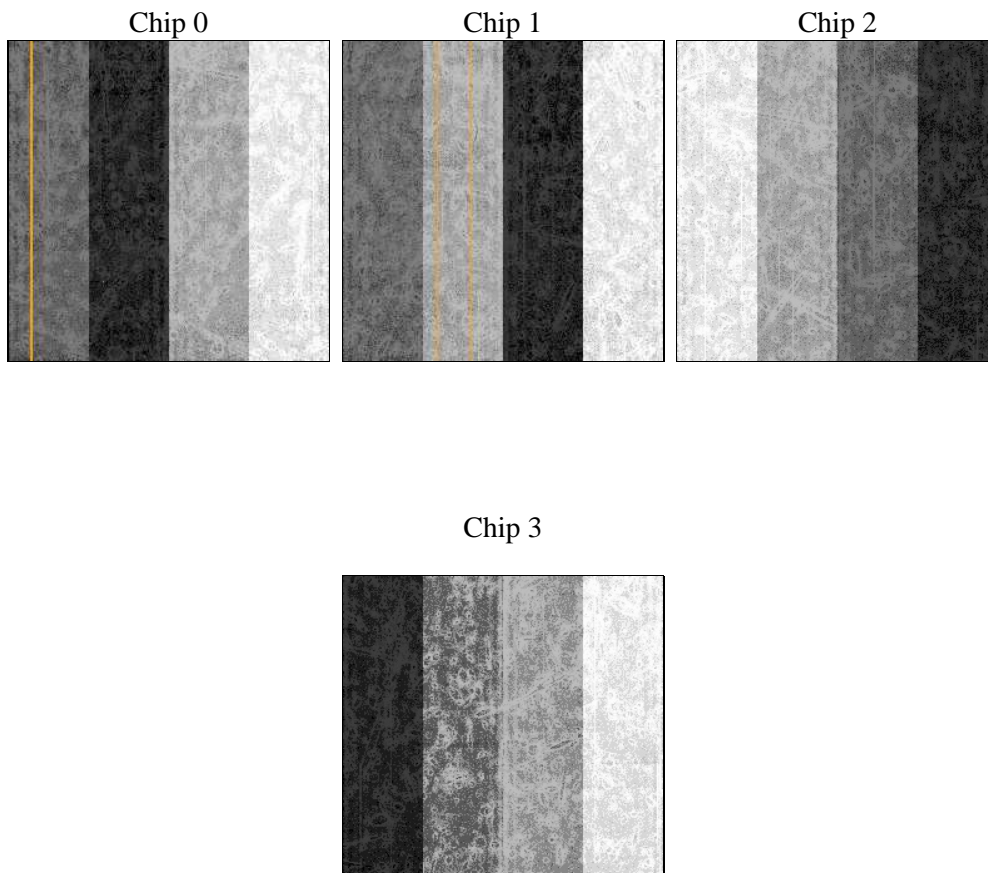
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	18000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	18178.400139809	Sum of GTIs [s]
caldsver	4.6.3	 	ontime0	18178.400139809	Sum of GTIs [s]
date	2014-10-20T15:34:54	Date and time of file creation	ontime1	18178.400139809	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	18175.259169459	Sum of GTIs [s]
			ontime3	18178.400139809	Sum of GTIs [s]
			l1events	304075	Number of level 1 events

2.1.4 Events

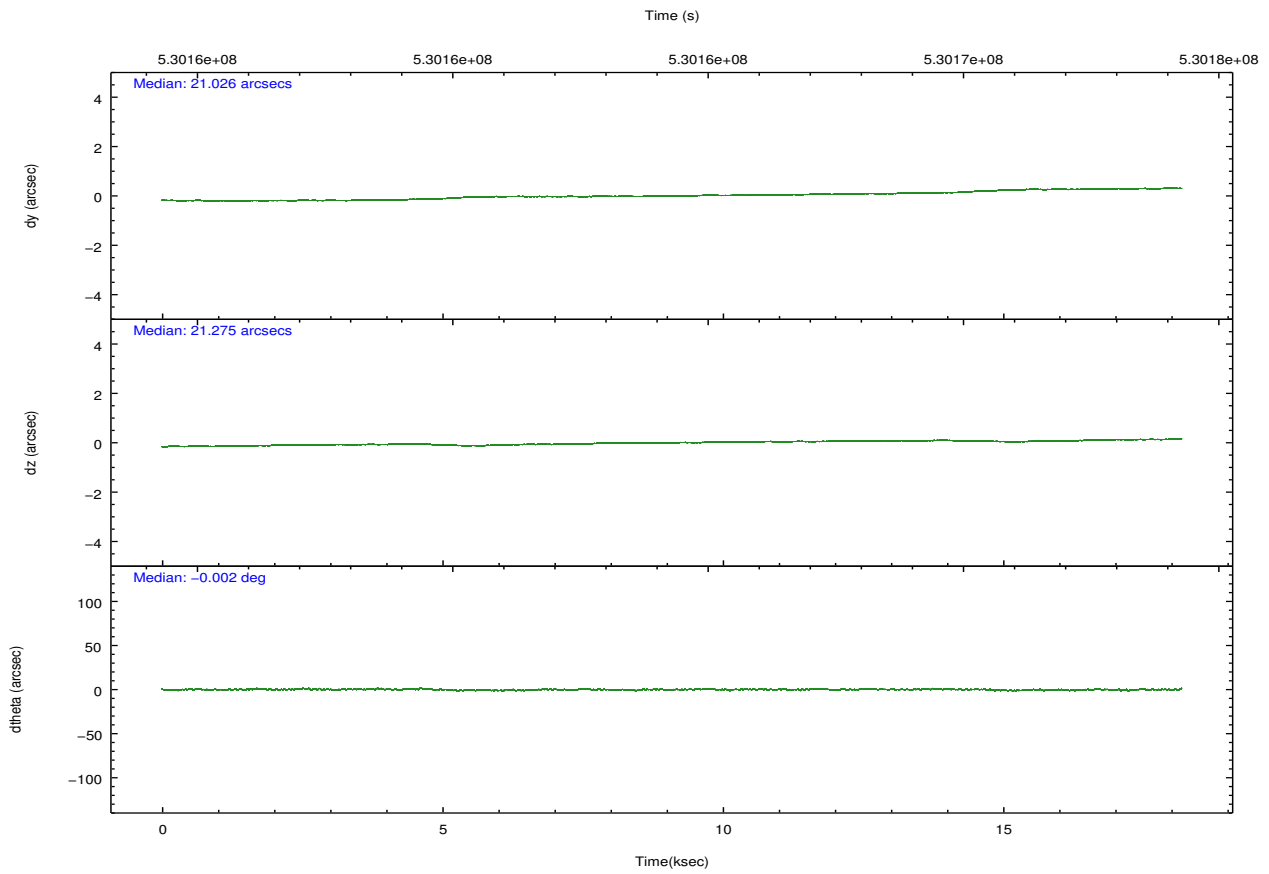
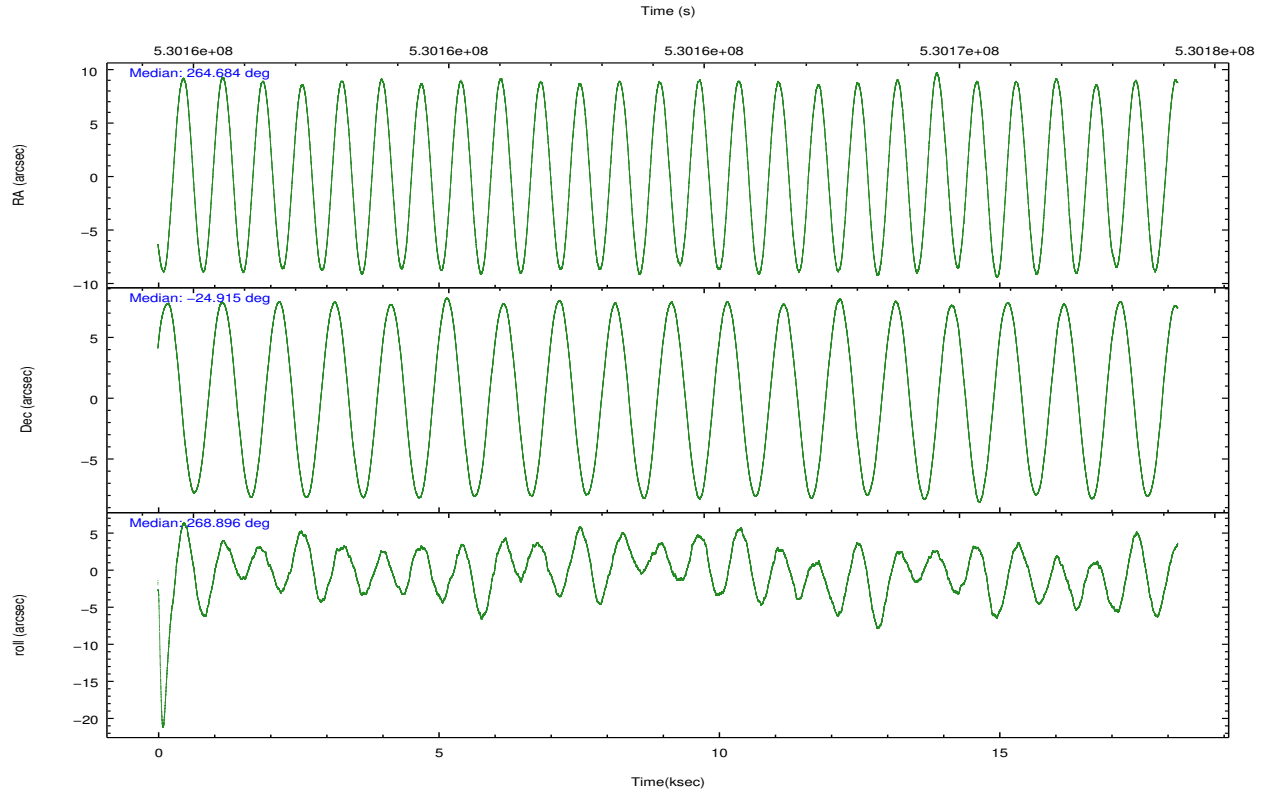
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	71959	72687	83154	76275
rejected events	62736	62980	73697	67504
rejected %	87%	86%	88%	88%

	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	3874	4038	4205	4058
	5%	5%	5%	5%
grade 1 events	47	42	48	57
	0%	0%	0%	0%
grade 2 events	2429	2264	2382	1894
	3%	3%	2%	2%
grade 3 events	894	941	815	784
	1%	1%	0%	1%
grade 4 events	846	924	872	813
	1%	1%	1%	1%
grade 5 events	1914	2087	1658	2163
	2%	2%	1%	2%
grade 6 events	1277	1623	1318	1314
	1%	2%	1%	1%
grade 7 events	60678	60768	71856	65192
	84%	83%	86%	85%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	264.669597	264.6844022190967	Subarray requested	NONE	NONE
[deg] Pointing Dec	-24.890783	-24.91487490253972	Alternating exposures requested	N	N
[deg] Pointing Roll	268.695109	268.9100296535794	[s] Primary exposure time	0.000000	3.1
[s] Window start time (MET)	530109067.184000	530109067.184000			
[s] Window stop time (MET)	530188267.184000	530188267.184000			
[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)	530155372.184000	530154995.92602			
Observation start date	2014-10-20T01:21:45	2014-10-20T01:16:35			
[s] Observation end time (MET)	530173372.184000	530173910.25207			
Observation end date	2014-10-20T06:21:45	2014-10-20T06:31:50			
Read mode	TIMED	TIMED			

2.3 Aspect

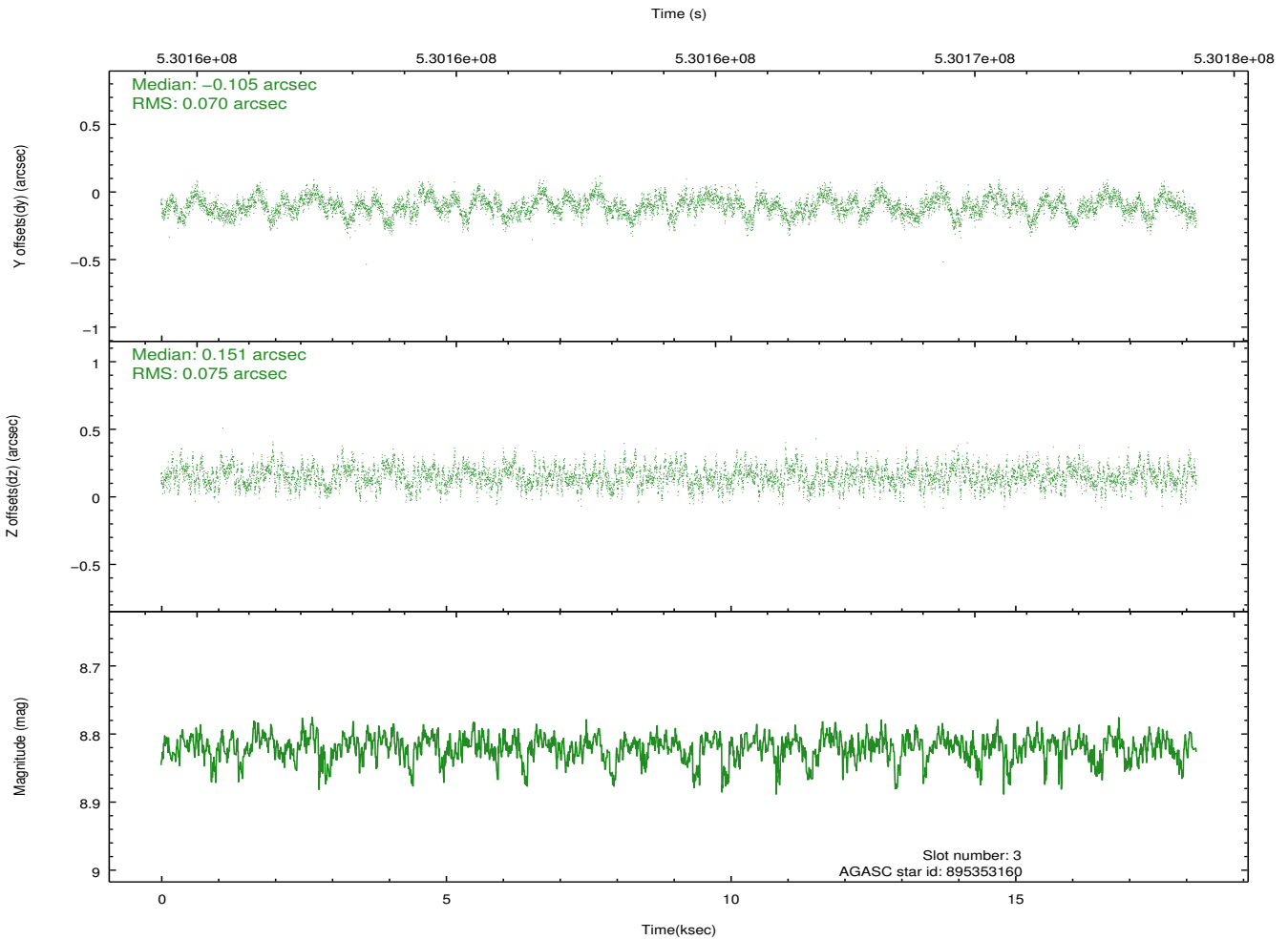
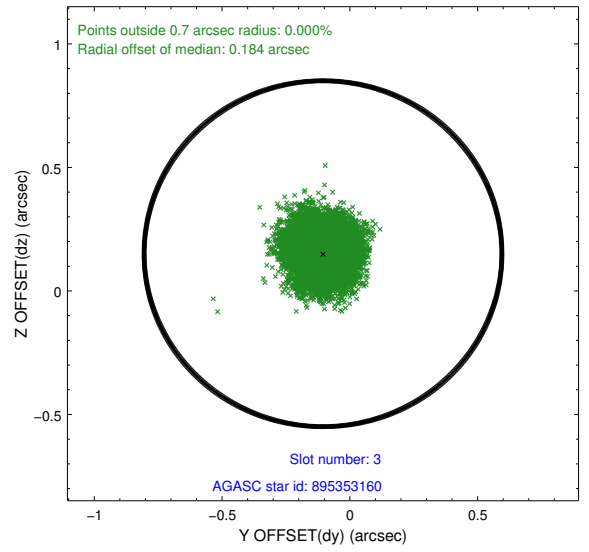
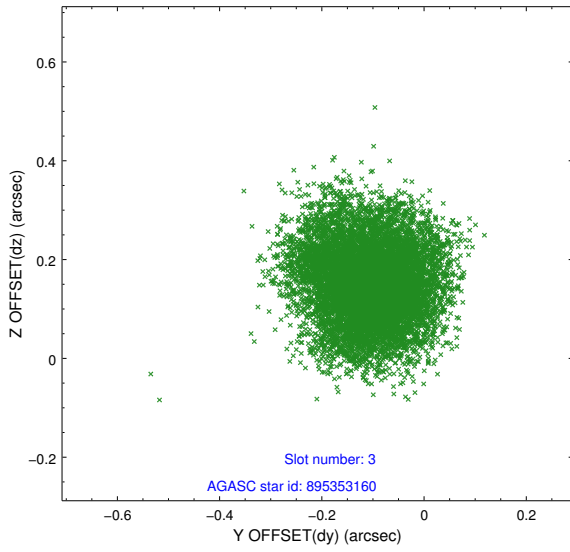


Slot Statistics

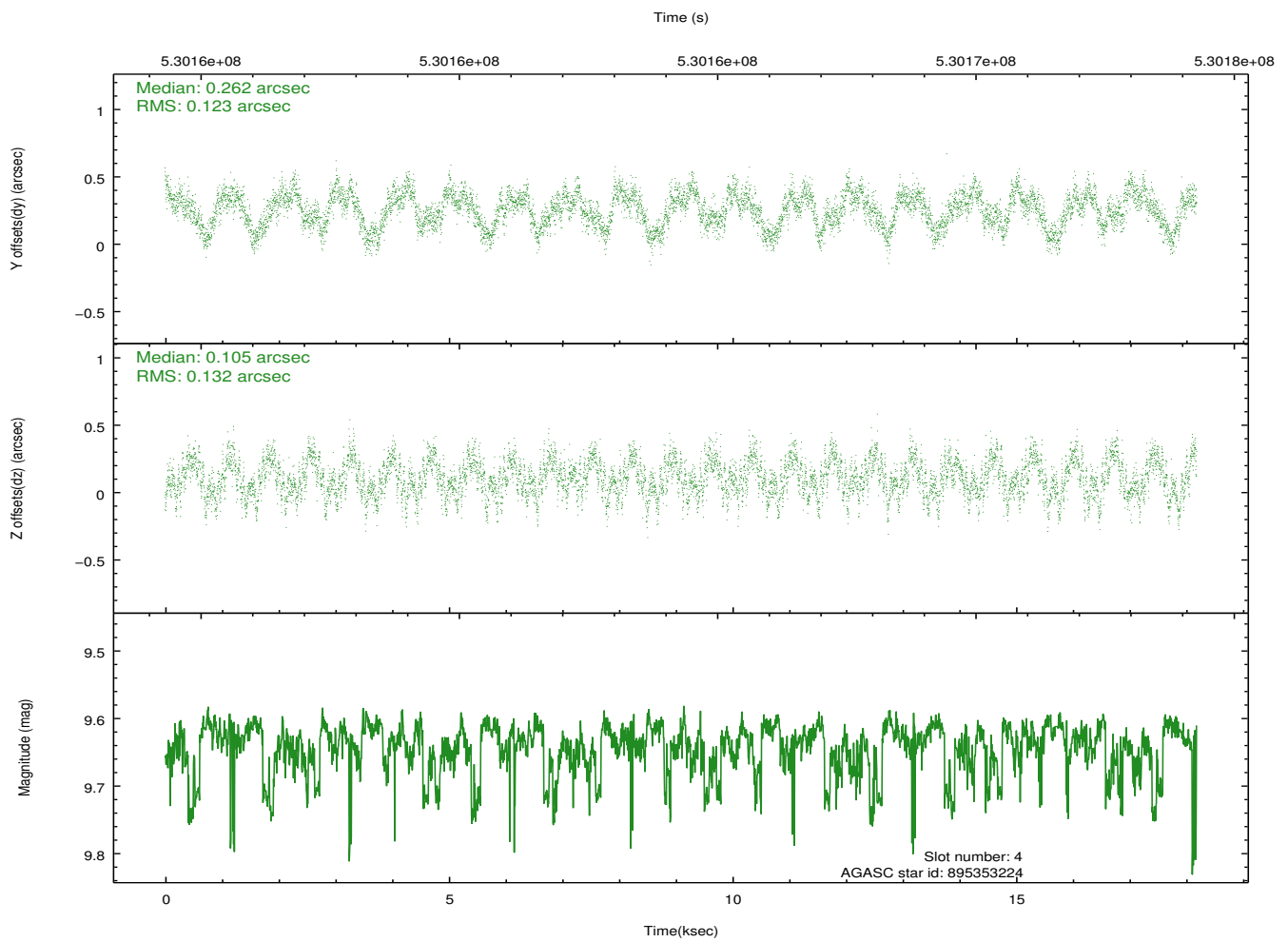
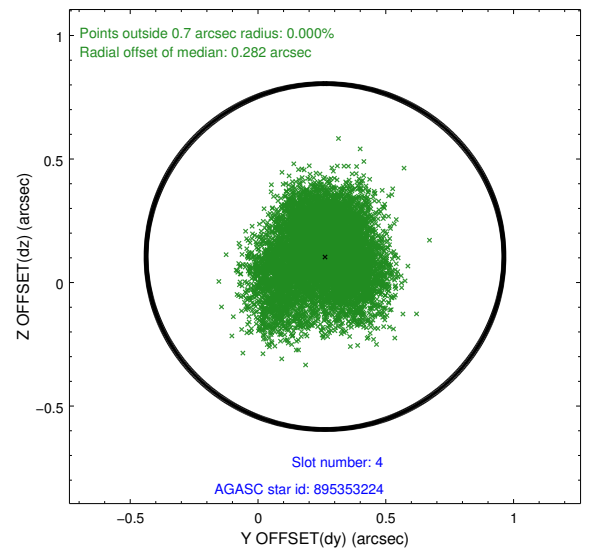
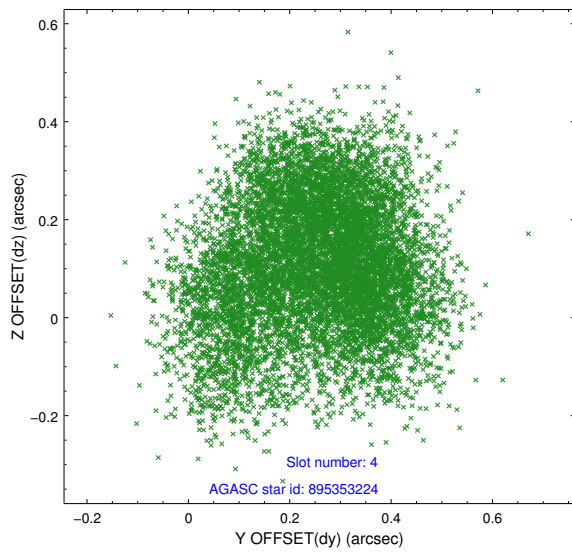
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.07	4435	0.055	-0.010	0.009	0.015	0.000000	0.000000	918.30	-845.04
1	FID	ACIS-I-5	7.06	4435	-0.236	0.055	0.007	0.013	0.000000	0.000000	-1829.98	1052.39
2	FID	ACIS-I-6	7.06	4436	0.089	0.025	0.007	0.011	0.000000	0.000000	383.63	1697.12
3	GUIDE	895353160	8.82	8869	-0.105	0.151	0.111	0.173	264.317198	-24.593240	-1043.16	-1176.54
4	GUIDE	895353224	9.64	8866	0.262	0.105	0.196	0.301	264.332855	-24.564998	-1145.14	-1128.86
5	GUIDE	895353504	8.79	8868	0.040	-0.150	0.107	0.176	264.451518	-24.713614	-620.23	-727.54
6	GUIDE	895353896	9.41	8862	-0.070	0.043	0.196	0.290	265.308114	-24.431017	-1697.72	2054.73
7	GUIDE	895354312	8.54	8867	-0.113	-0.161	0.157	0.230	264.478418	-24.965830	285.13	-617.05

2.4 Star Slots

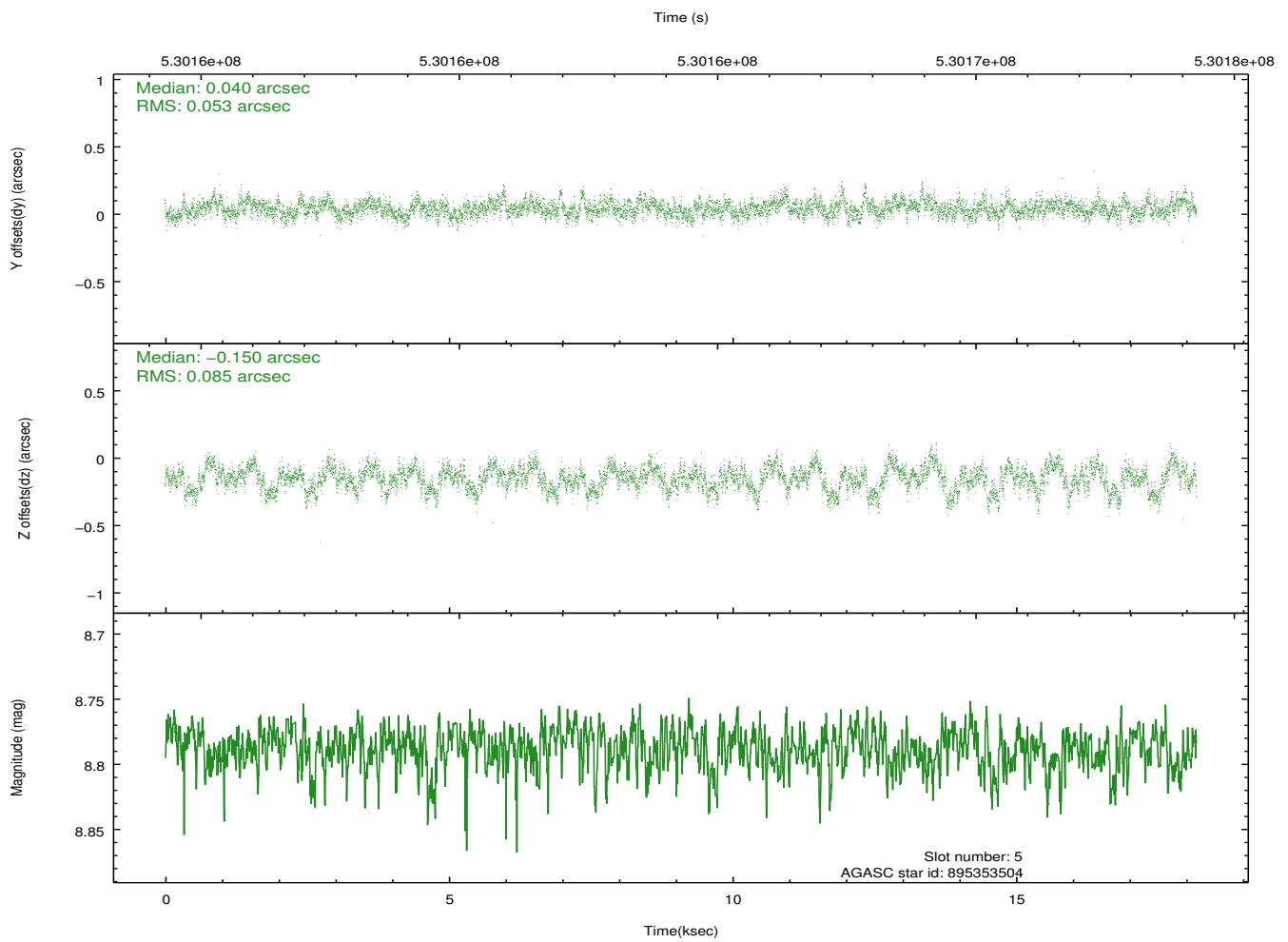
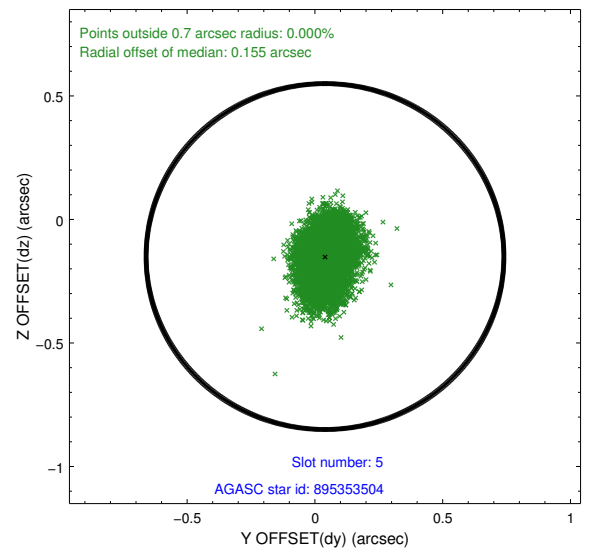
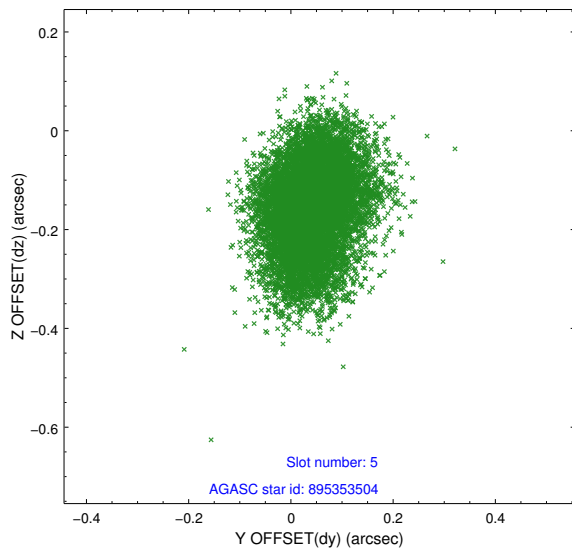
2.4.1 Slot 3



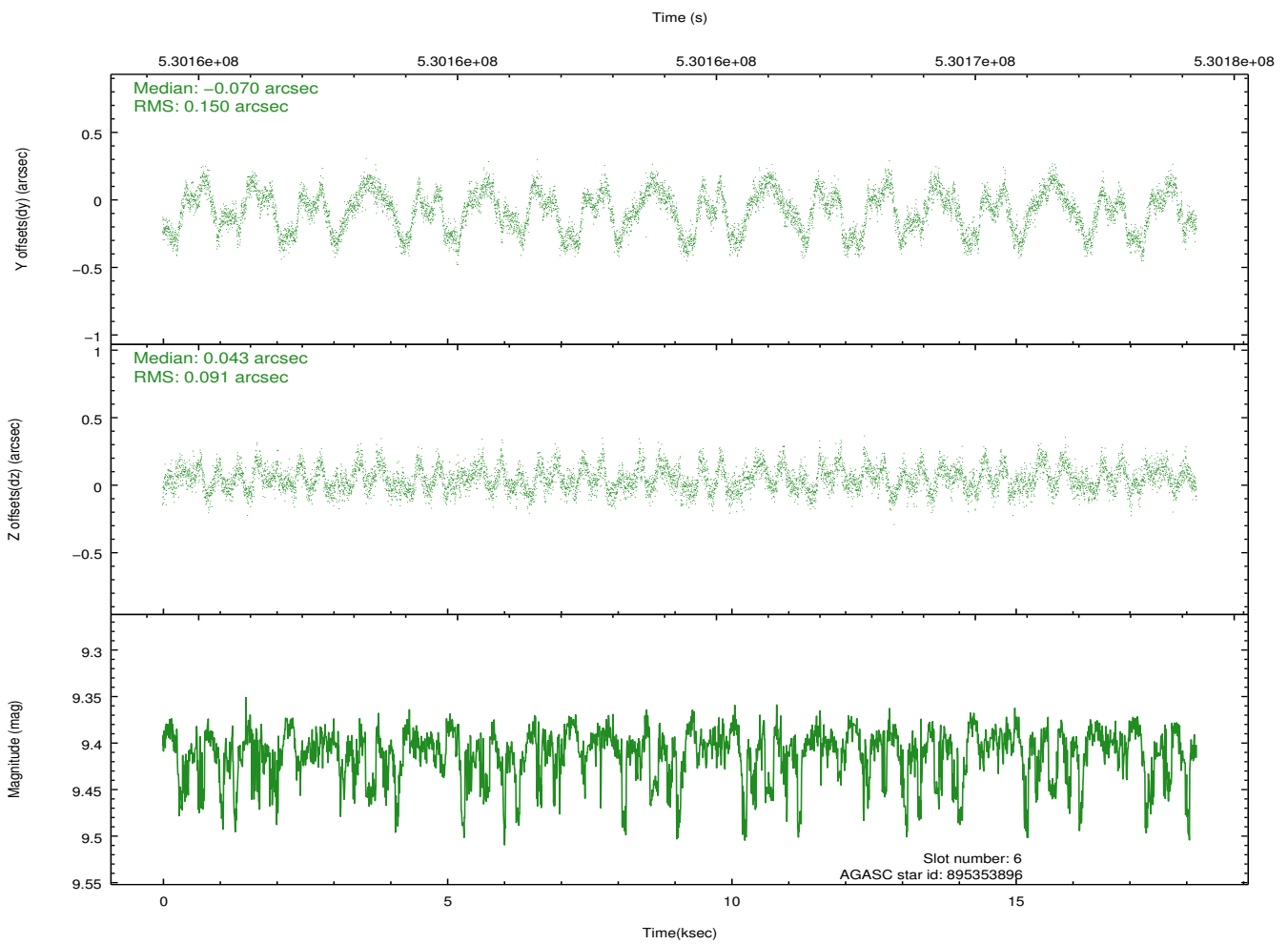
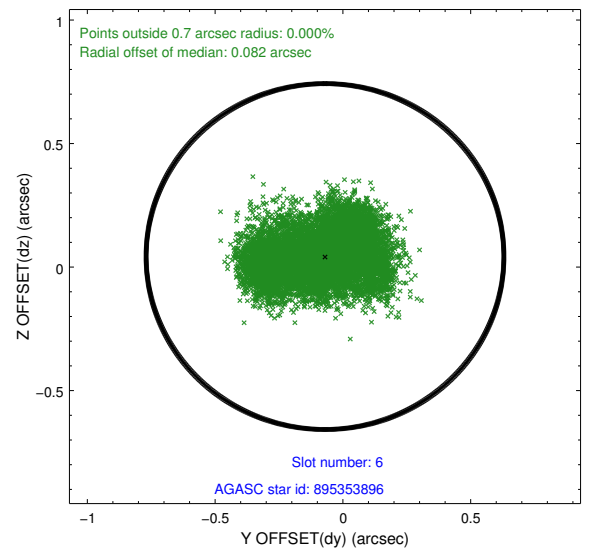
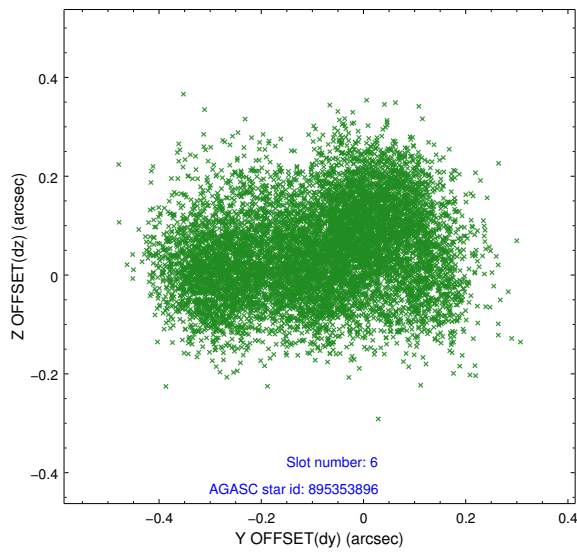
2.4.2 Slot 4



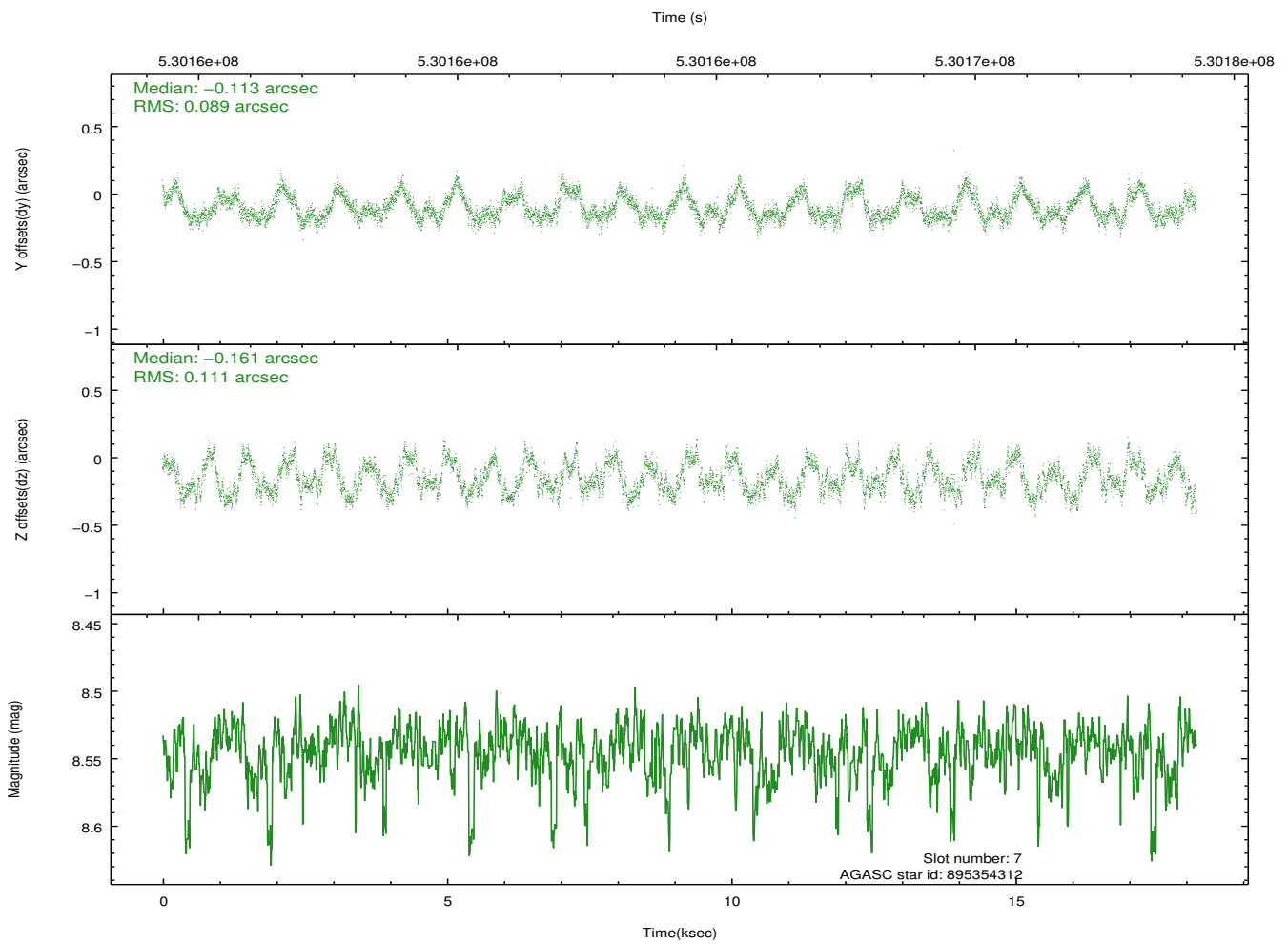
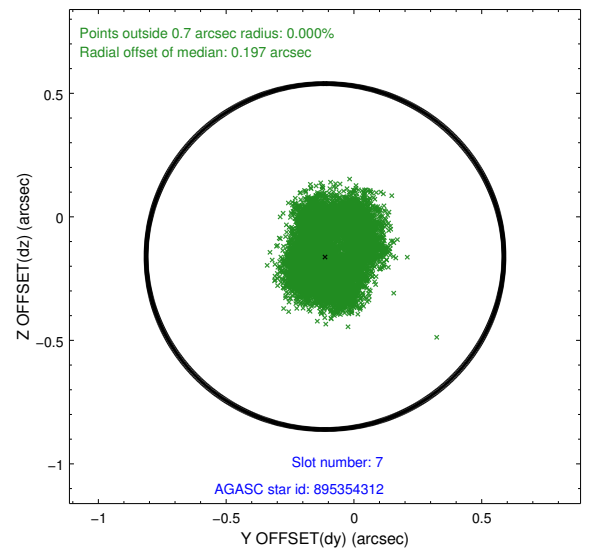
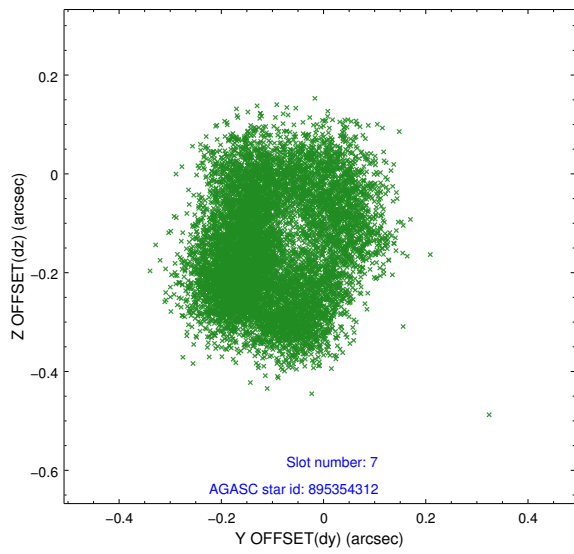
2.4.3 Slot 5



2.4.4 Slot 6

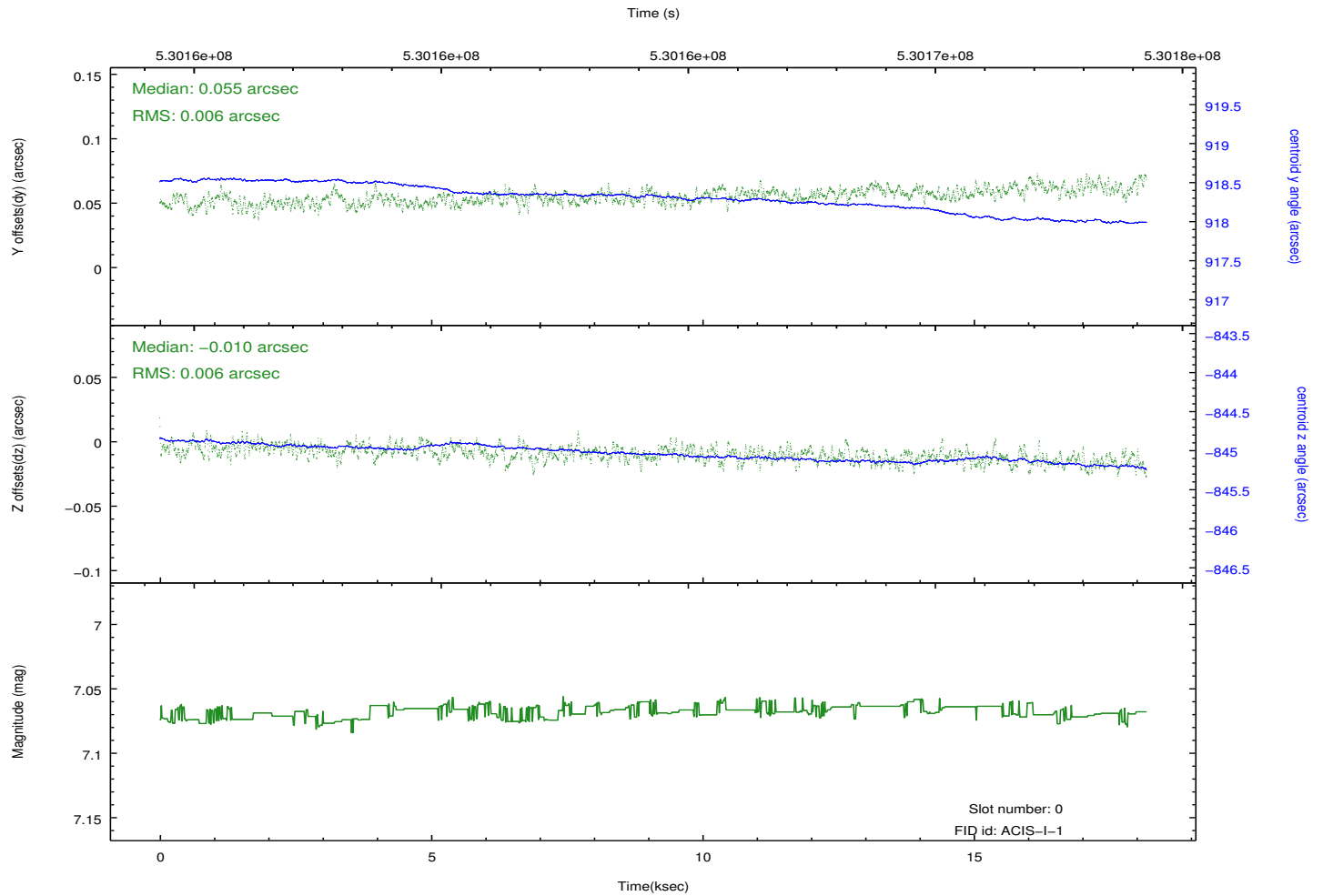
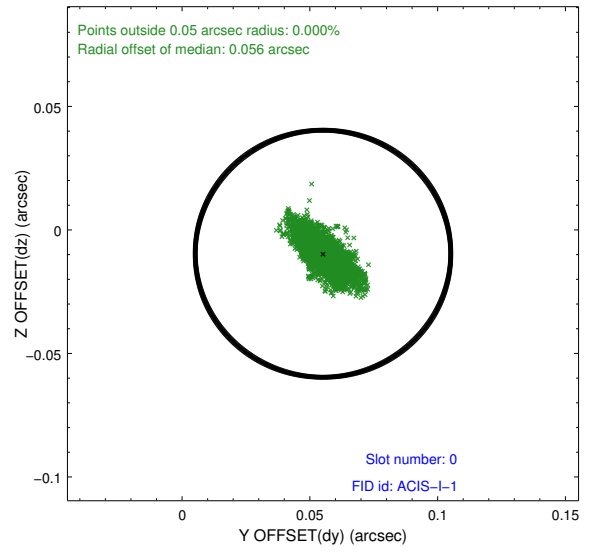
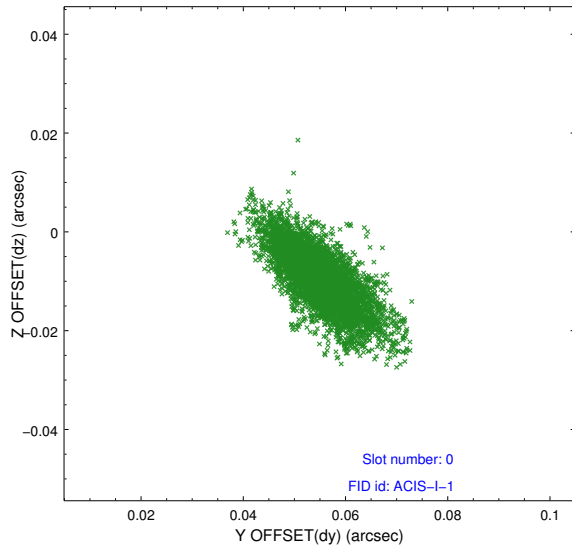


2.4.5 Slot 7

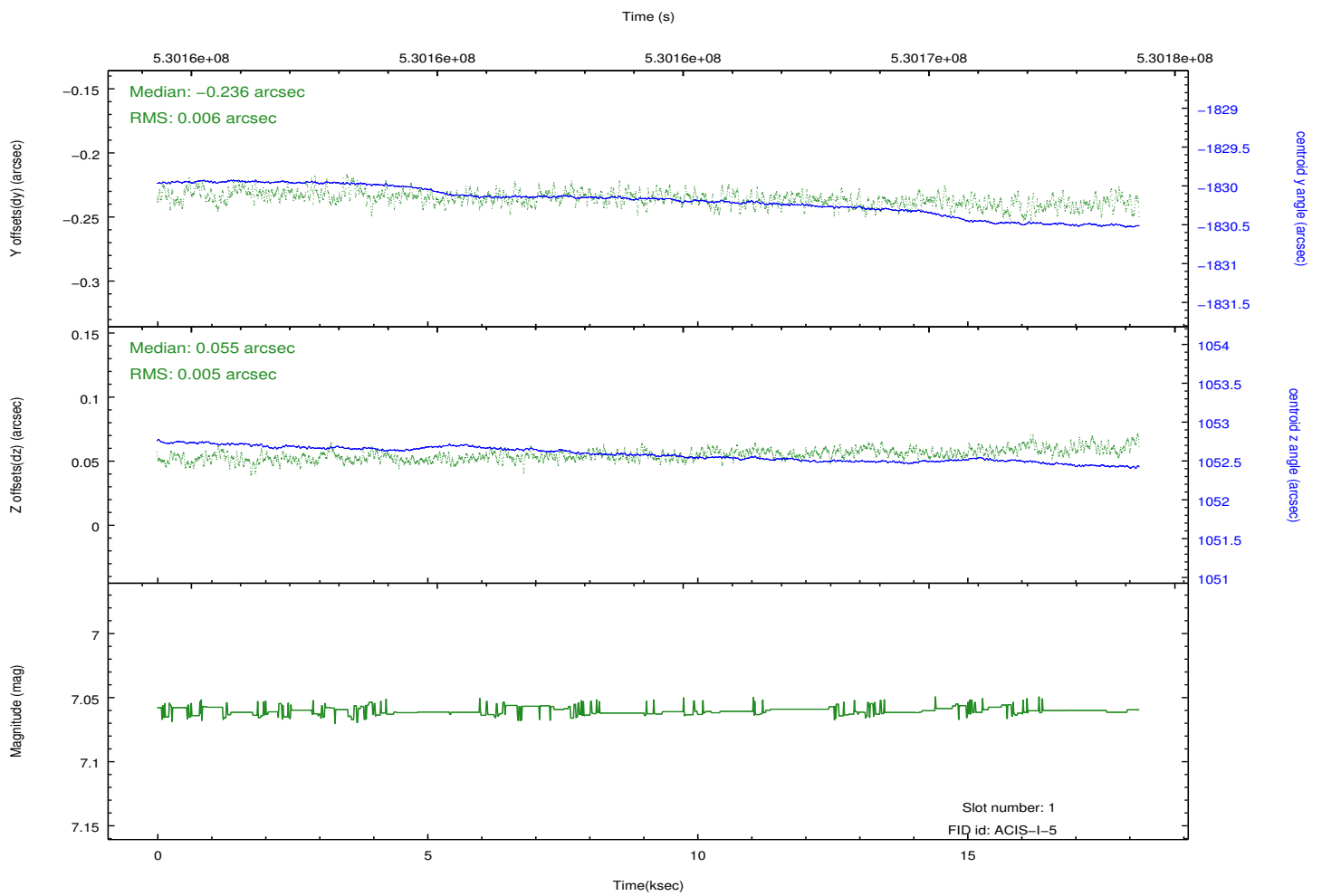
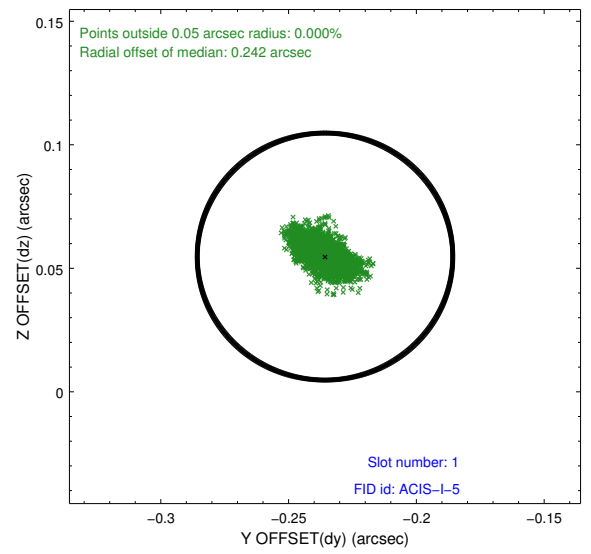
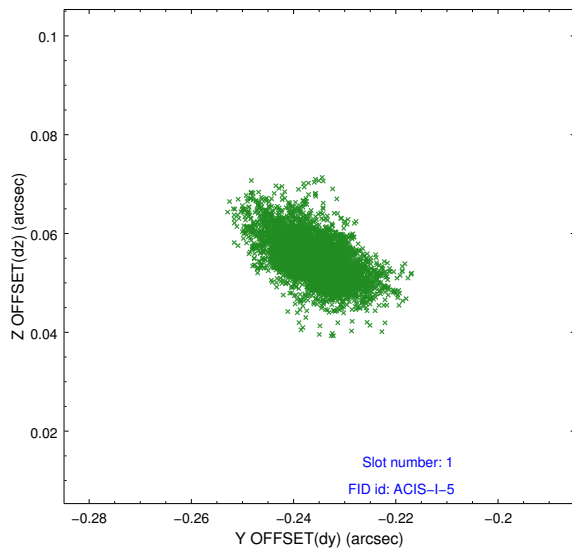


2.5 FID Slots

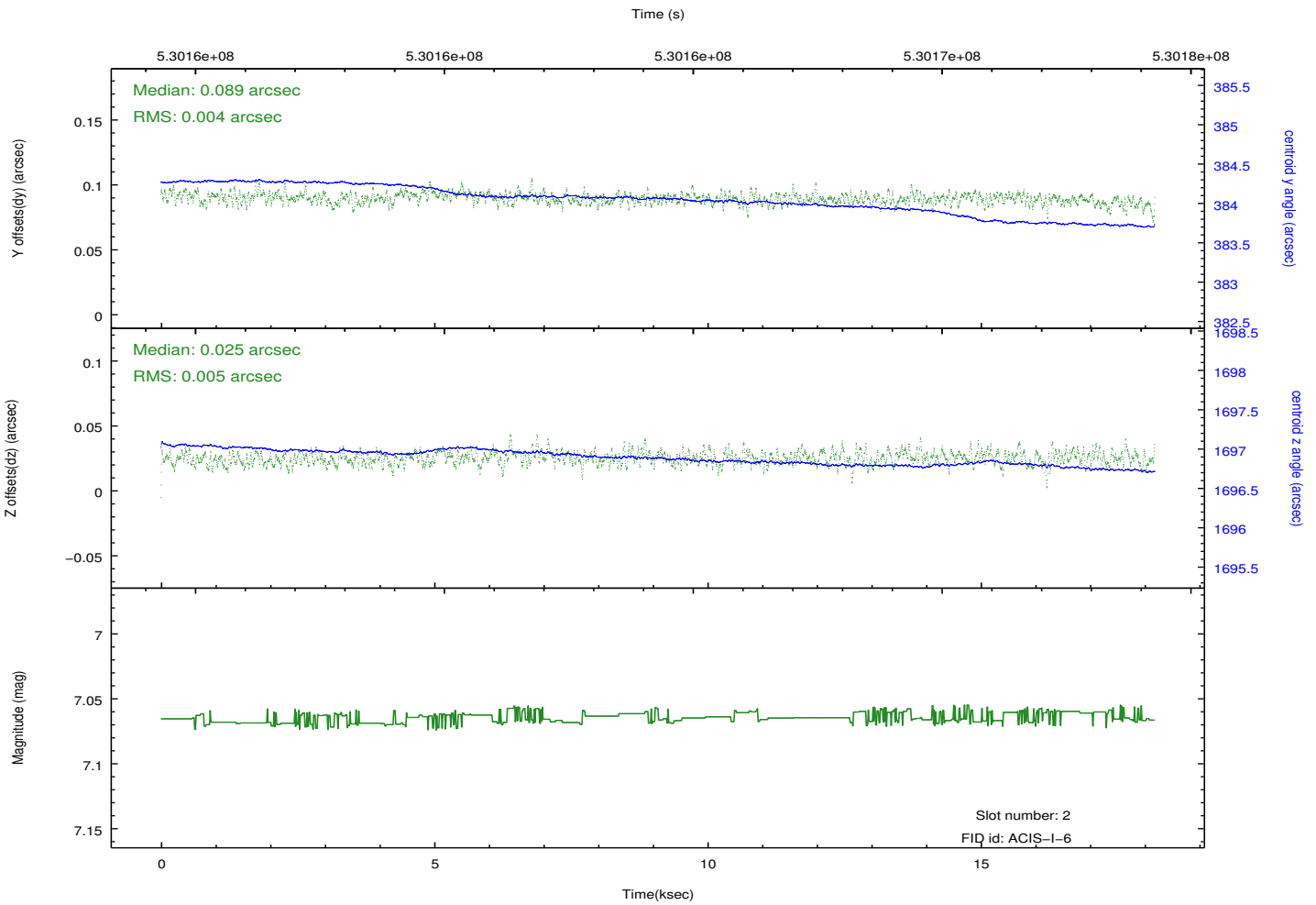
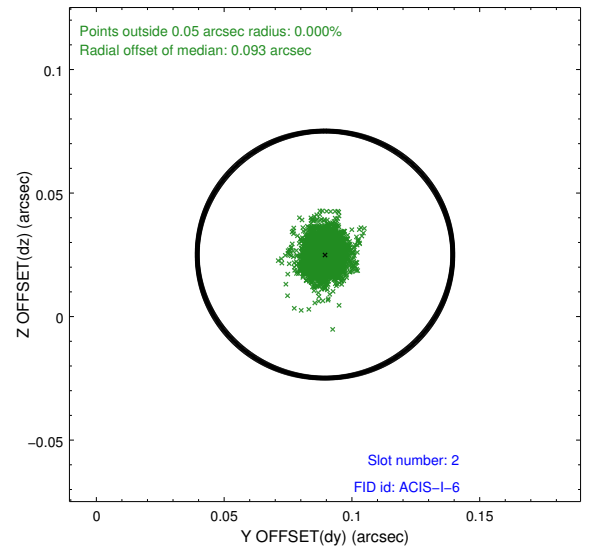
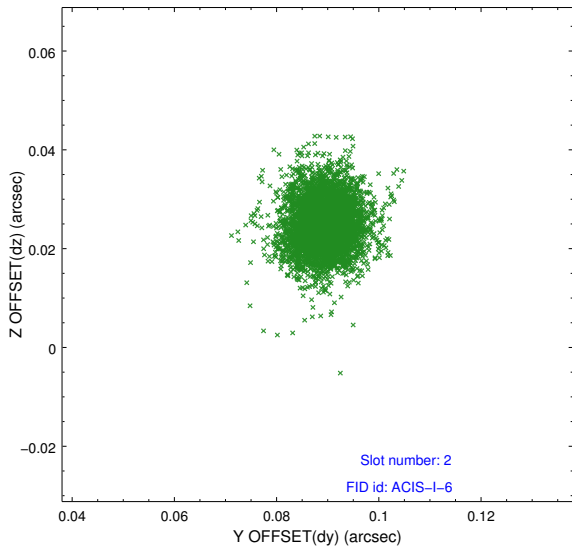
2.5.1 Slot 0



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)	2014.10.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	18.178400139809

A.2 Comments

Joint proposal with HST.

Window preference met.

This is an observation of a moving target. Users will need to run `sso_freeze` or similar software to position the events in the reference frame of the target.