

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 15260 - L2 Version 2
Chandra X-Ray Center

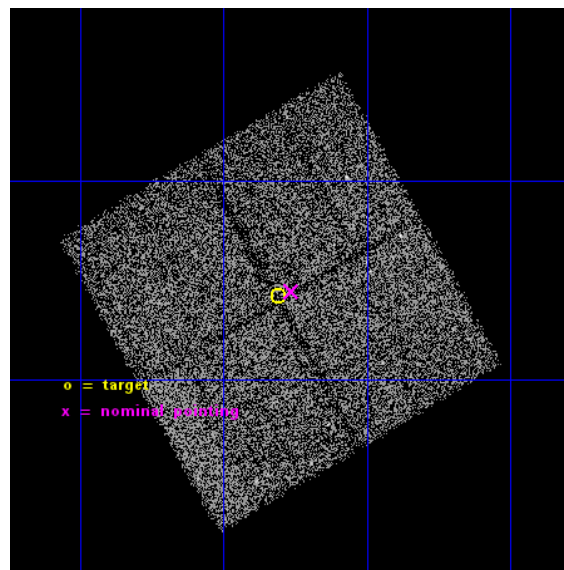
L2 Processing Date : Dec 9 2014

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1 Front

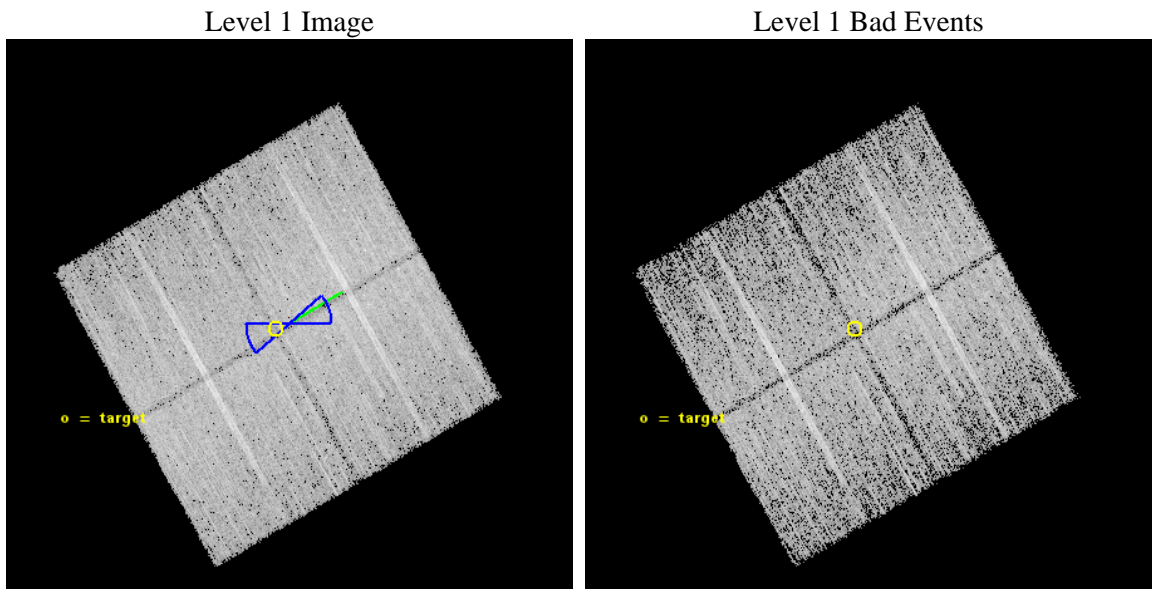
seq_num	901090	Sequence number
obs_id	15260	Observation id
title	The COSMOS Legacy Survey	Proposal title
observer	Dr Francesca Civano	Principal investigator
object	COSMOS Legacy	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	150.70184	Observer's specified target RA [deg]
dec_targ	1.736936	Observer's specified target Dec [deg]
ra_nom	150.69090813555	Nominal RA [deg]
dec_nom	1.7405891486515	Nominal Dec [deg]
roll_nom	60.209029293289	Nominal Roll [deg]
revision	2	Processing version of data
ontime	23094.599849343	Sum of GTIs [s]
livetime	22792.851900315	Livetime [s]
ontime0	23091.417788923	Sum of GTIs [s]
ontime1	23094.599849343	Sum of GTIs [s]
ontime2	23091.499868929	Sum of GTIs [s]
ontime3	23091.540909052	Sum of GTIs [s]
l2events	44581	Number of level 2 events



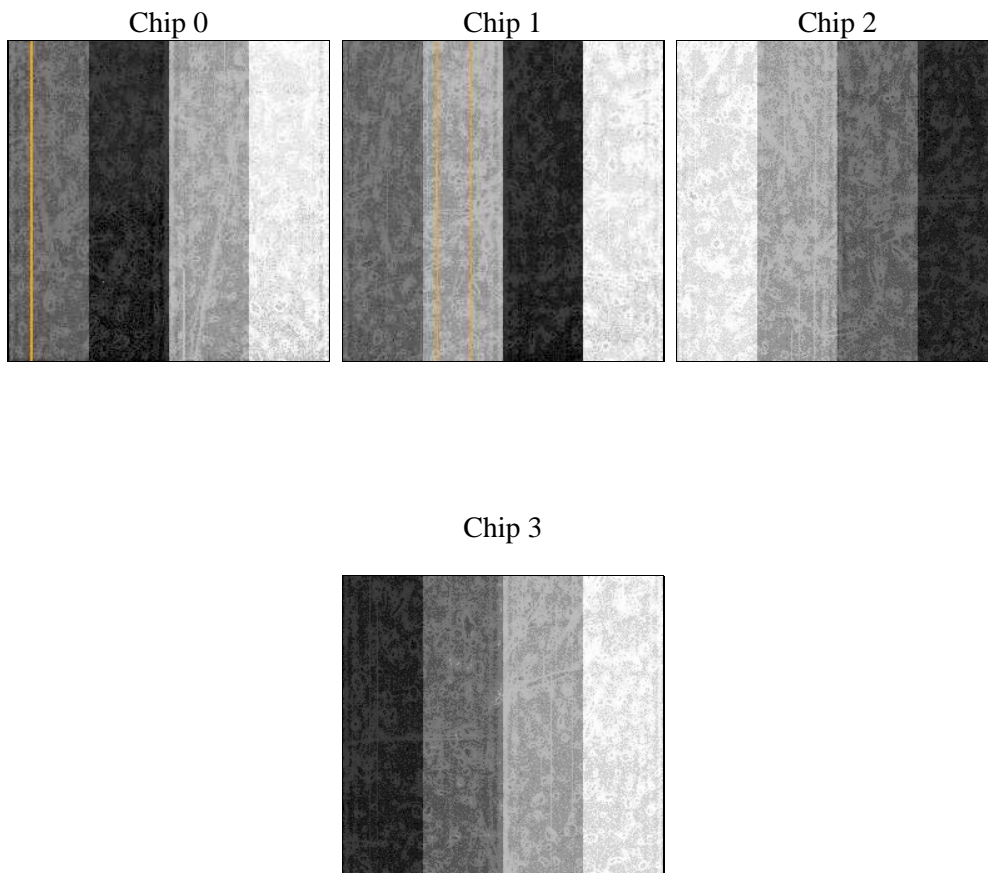
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	23000.000000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	23094.599849343	Sum of GTIs [s]
caldsver	4.6.4	 	ontime0	23091.417788923	Sum of GTIs [s]
date	2014-12-09T22:31:41	Date and time of file creation	ontime1	23094.599849343	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	23091.499868929	Sum of GTIs [s]
			ontime3	23091.540909052	Sum of GTIs [s]
			l1events	425562	Number of level 1 events

2.1.4 Events

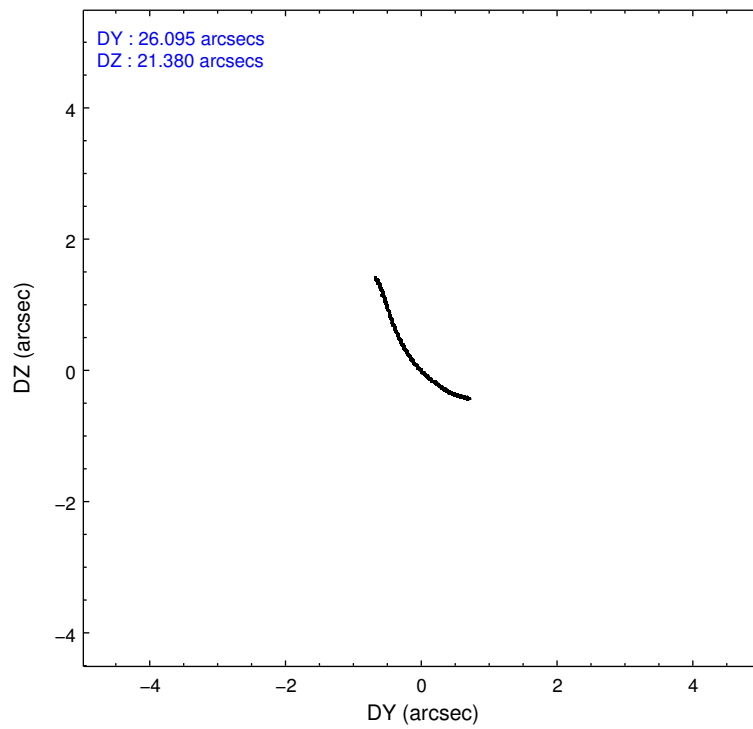
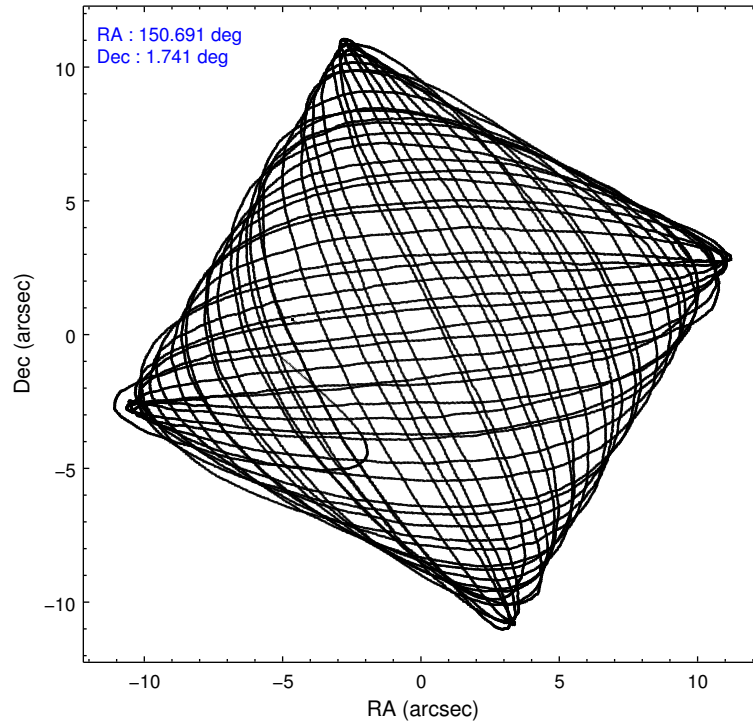
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	99284	106131	111242	108905
rejected events	85800	91205	97776	96430
rejected %	86%	85%	87%	88%

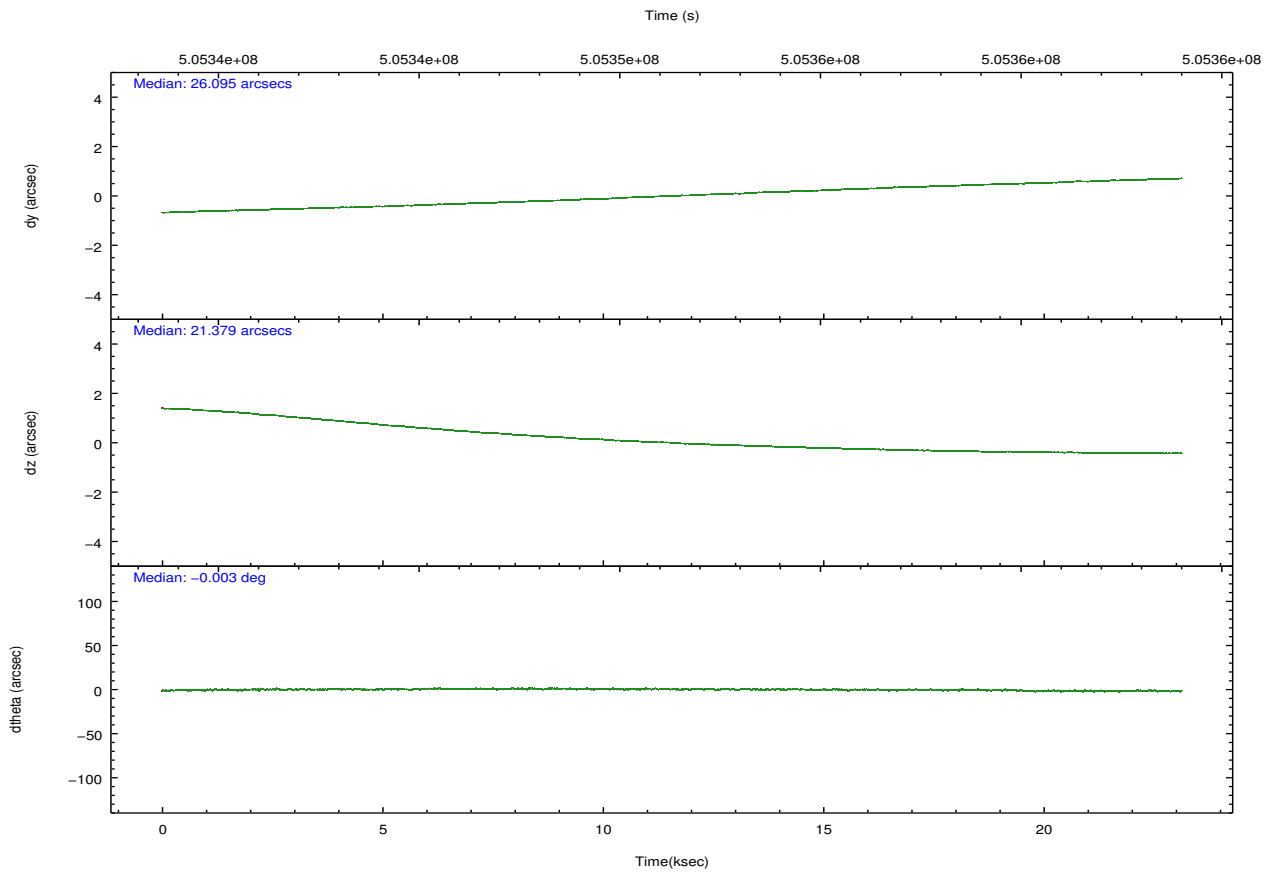
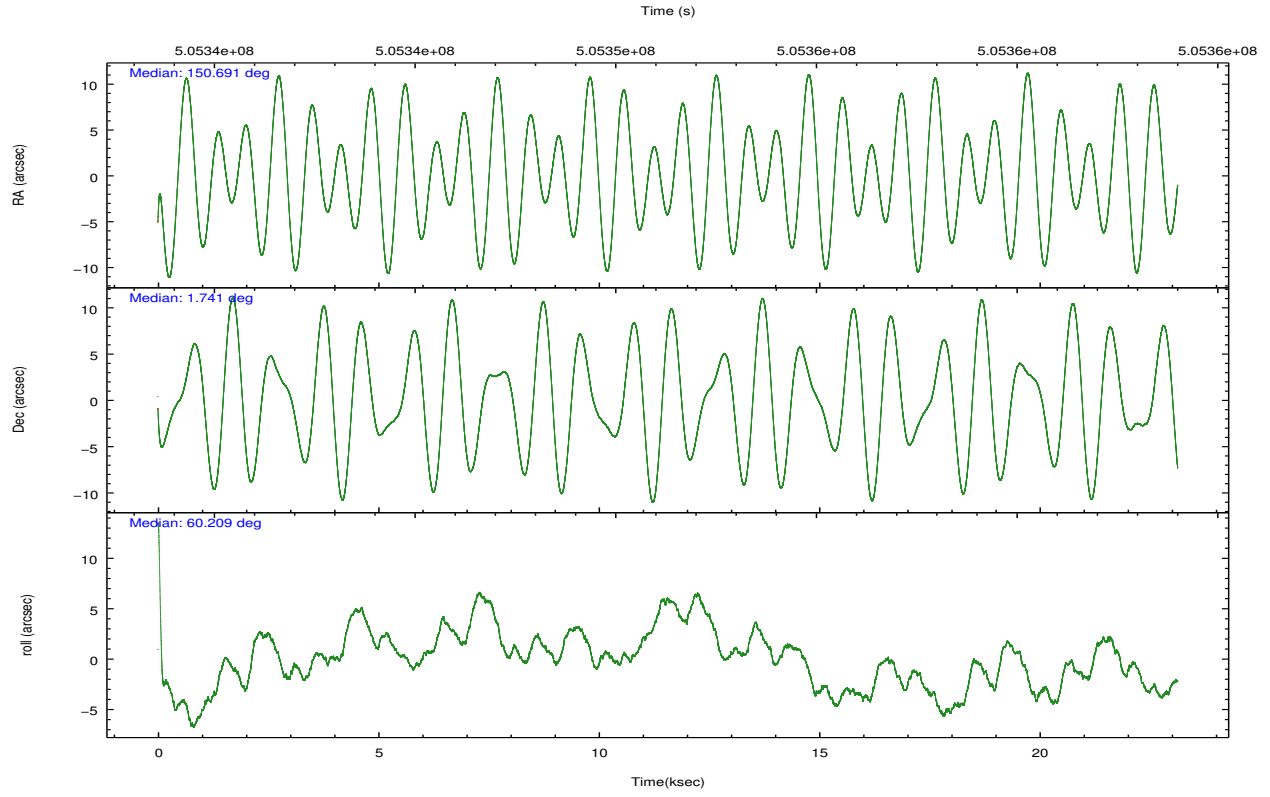
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	4761	5174	4974	4397
	4%	4%	4%	4%
grade 1 events	74	61	68	61
	0%	0%	0%	0%
grade 2 events	3353	3691	3417	2806
	3%	3%	3%	2%
grade 3 events	1407	1477	1261	1307
	1%	1%	1%	1%
grade 4 events	1225	1478	1374	1312
	1%	1%	1%	1%
grade 5 events	5379	5582	4882	5923
	5%	5%	4%	5%
grade 6 events	2738	3107	2442	2656
	2%	2%	2%	2%
grade 7 events	80347	85561	92824	90443
	80%	80%	83%	83%

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	150.691145	150.6909081355505	Subarray requested	NONE	NONE
[deg] Pointing Dec	1.713079	1.740589148651508	Alternating exposures requested	N	N
[deg] Pointing Roll	60.000332	60.20902929328945	[s] Primary exposure time	0.000000	3.1
[deg] Roll angle	250.000000	250.000000			
[deg] Roll tolerance	20.000000	20.000000			
Roll constraint allows 180D rotation	Y	Y			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5899487761303			
[mm] SIM translation stage offset	0	-0.002504226799430853			
[s] Observation start time (MET)	505339864.184000	505338845.11692			
Observation start date	2014-01-05T20:09:57	2014-01-05T19:54:05			
[s] Observation end time (MET)	505362864.184000	505363948.9058			
Observation end date	2014-01-06T02:33:17	2014-01-06T02:52:28			
Read mode	TIMED	TIMED			

2.3 Aspect



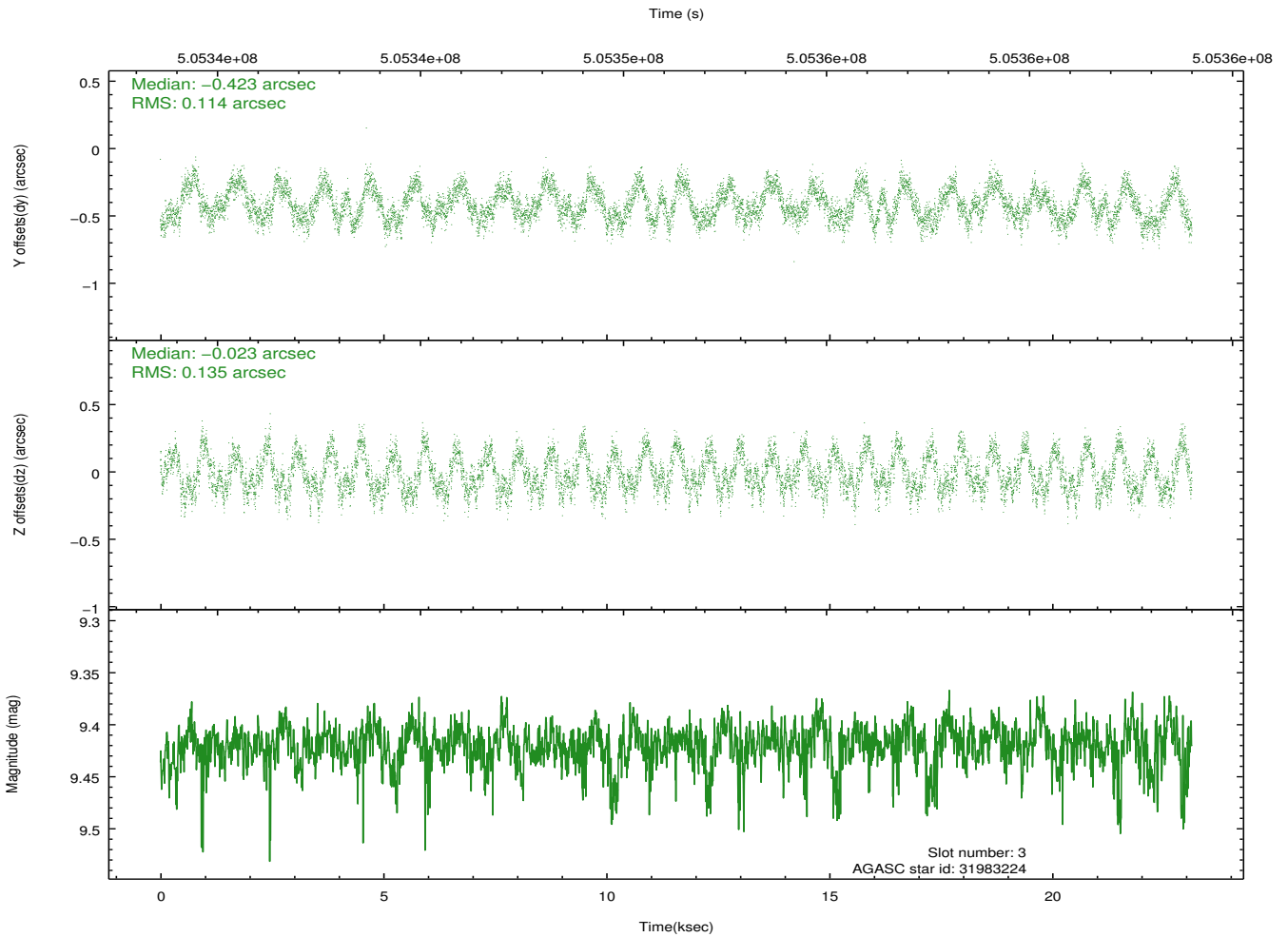
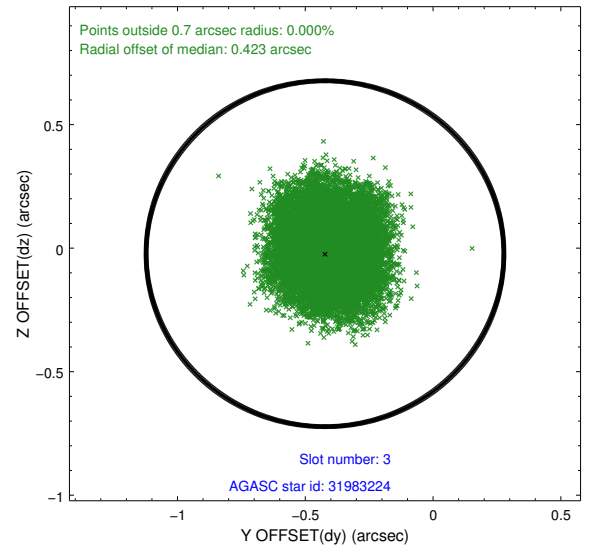
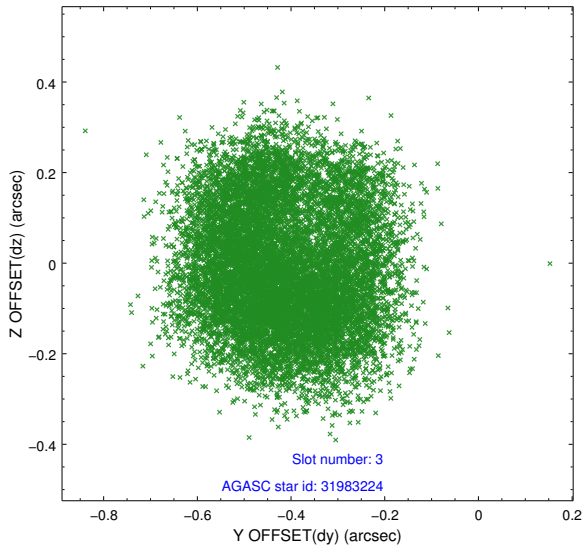


Slot Statistics

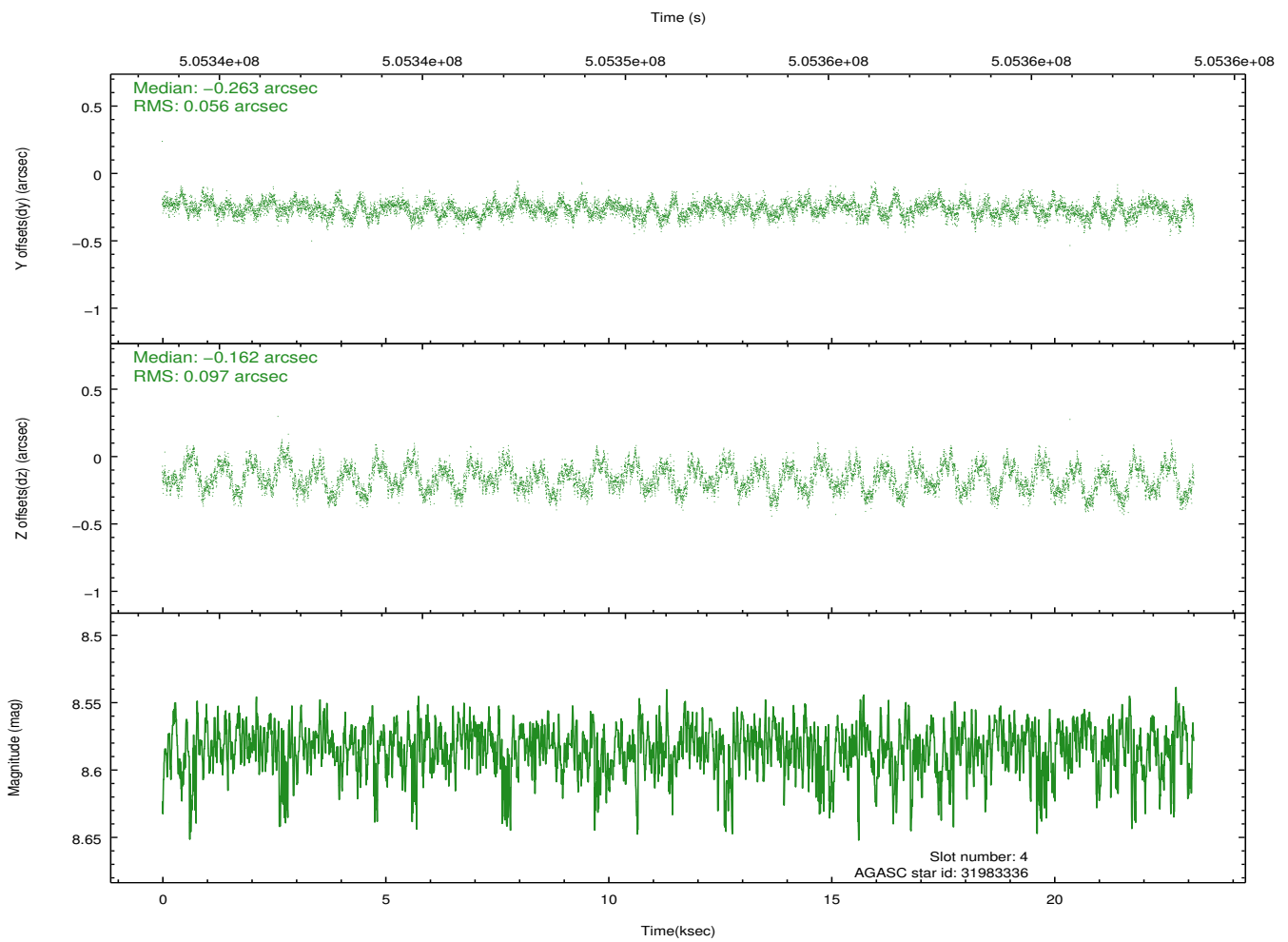
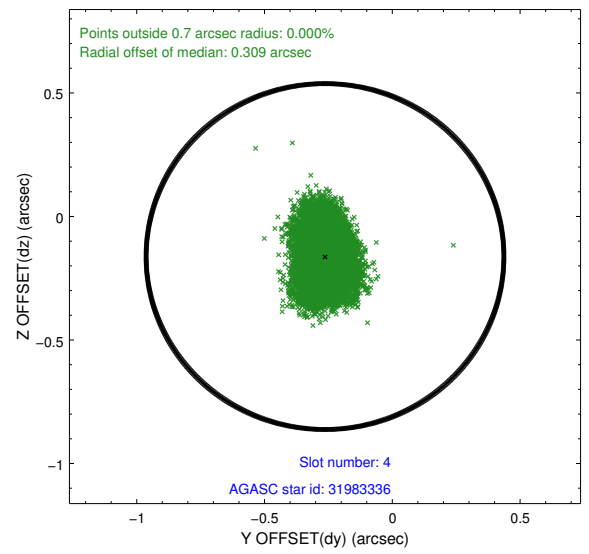
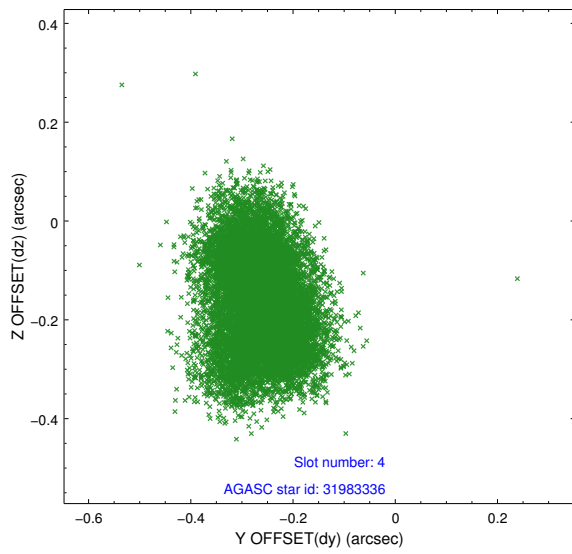
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.09	5643	0.061	-0.016	0.017	0.036	0.000000	0.000000	913.13	-845.27
1	FID		ACIS-I-5	7.08	5643	-0.284	0.046	0.013	0.019	0.000000	0.000000	-1835.28	1052.14
2	FID		ACIS-I-6	7.09	5643	0.132	0.044	0.025	0.052	0.000000	0.000000	378.54	1696.84
3	GUIDE	used	31983224	9.42	11278	-0.423	-0.023	0.196	0.286	150.543757	1.869948	224.07	741.73
4	GUIDE	used	31983336	8.58	11282	-0.263	-0.162	0.121	0.190	150.429924	2.291234	1333.08	1854.51
5	GUIDE	used	31986152	8.99	11277	-0.239	-0.467	0.111	0.175	150.840314	2.057585	1342.42	155.66
6	GUIDE	used	31991816	8.66	11277	0.605	0.462	0.121	0.225	150.917113	1.006843	-1793.93	-1974.87
7	GUIDE	used	31989744	8.93	11277	0.308	0.195	0.114	0.182	150.416962	1.131114	-2307.20	-192.67

2.4 Star Slots

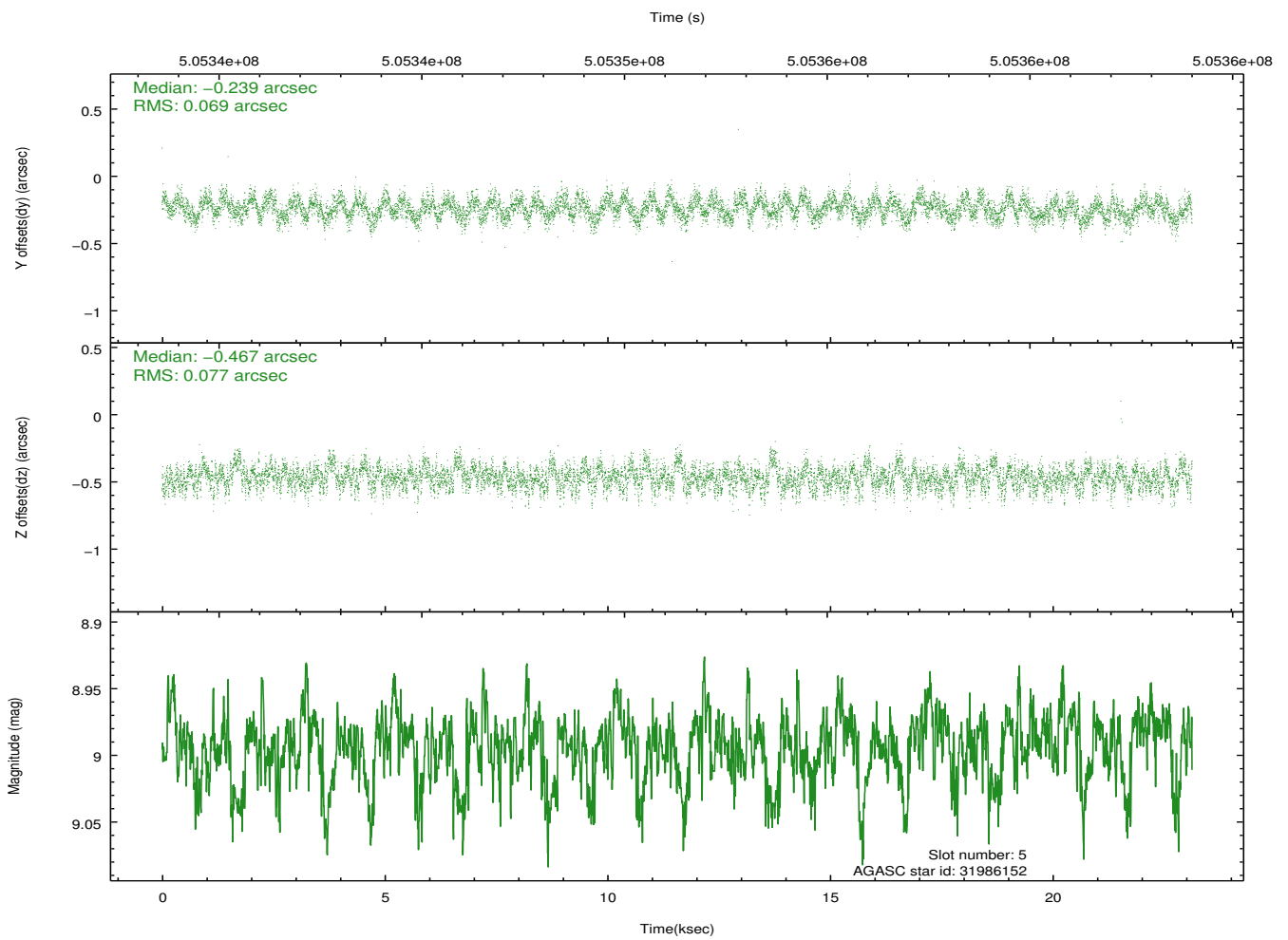
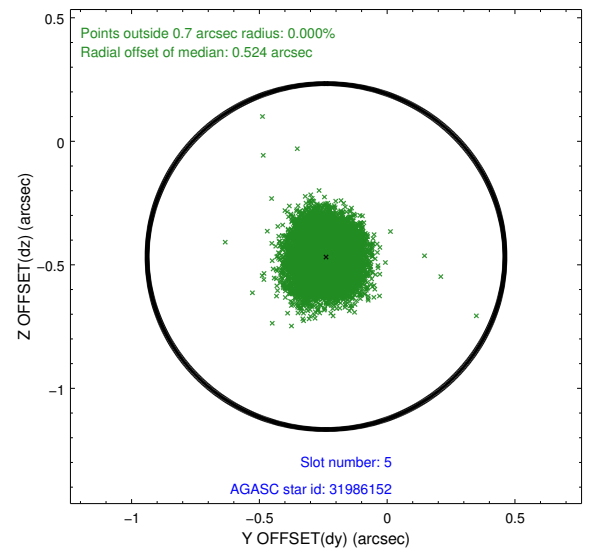
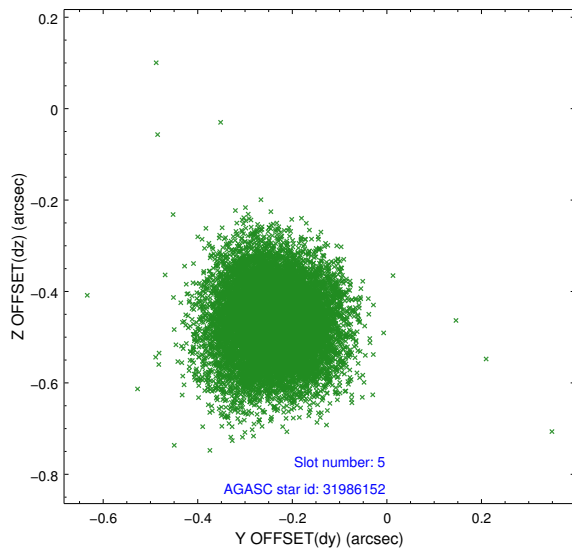
2.4.1 Slot 3



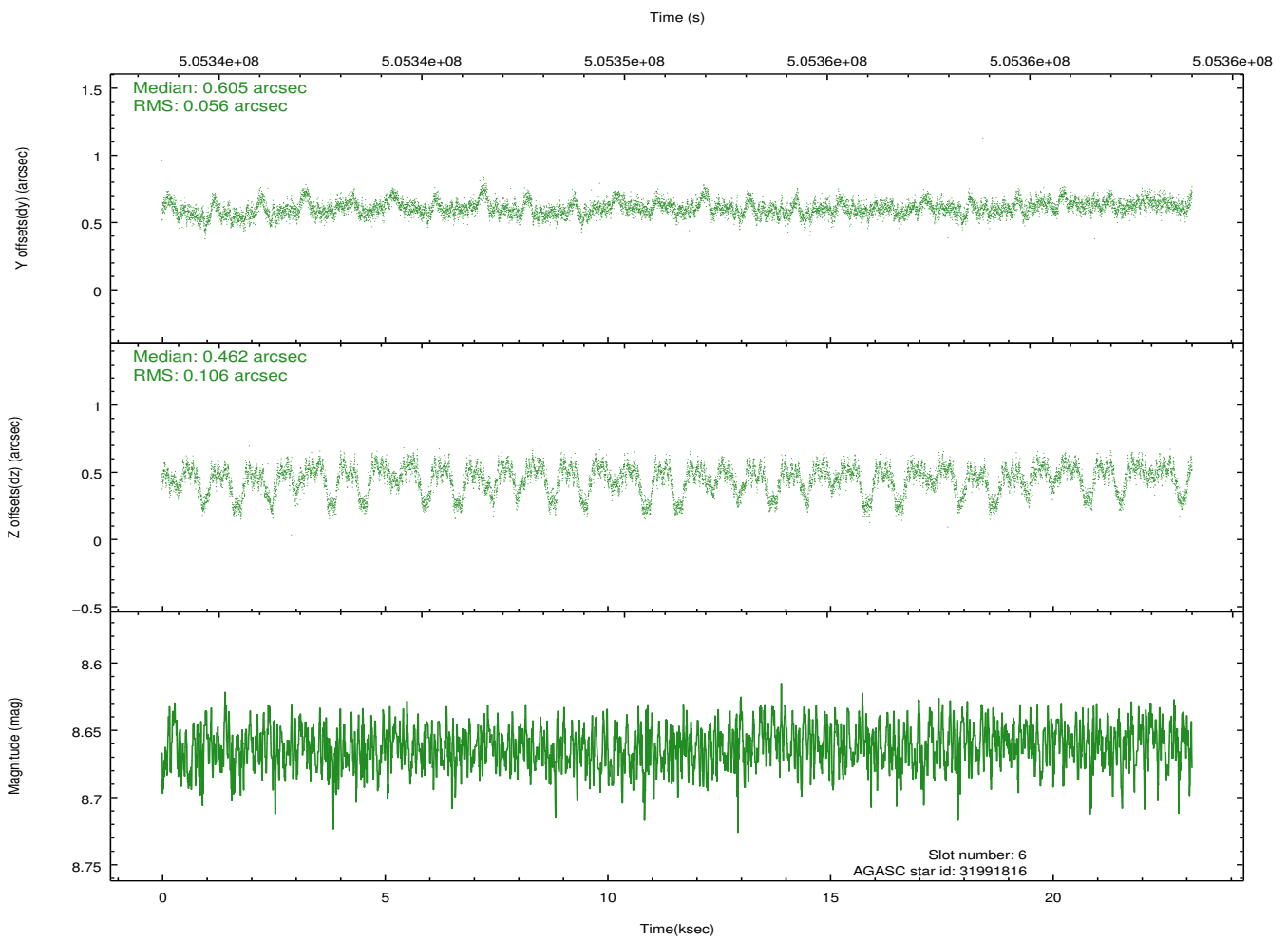
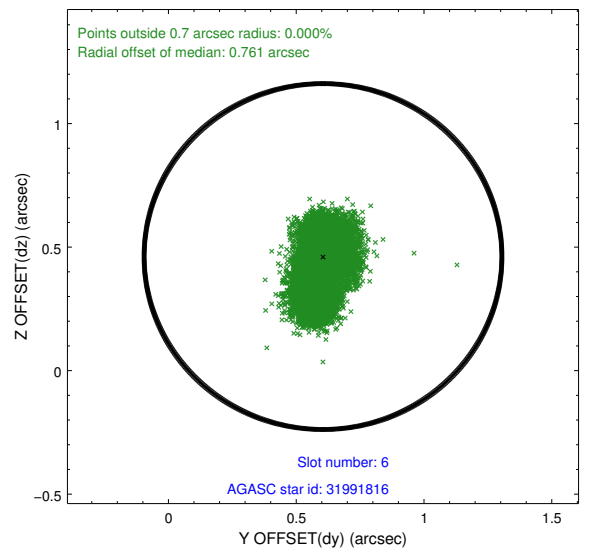
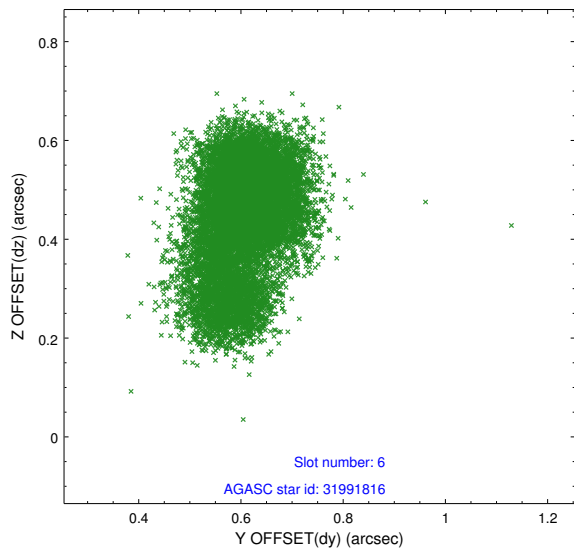
2.4.2 Slot 4



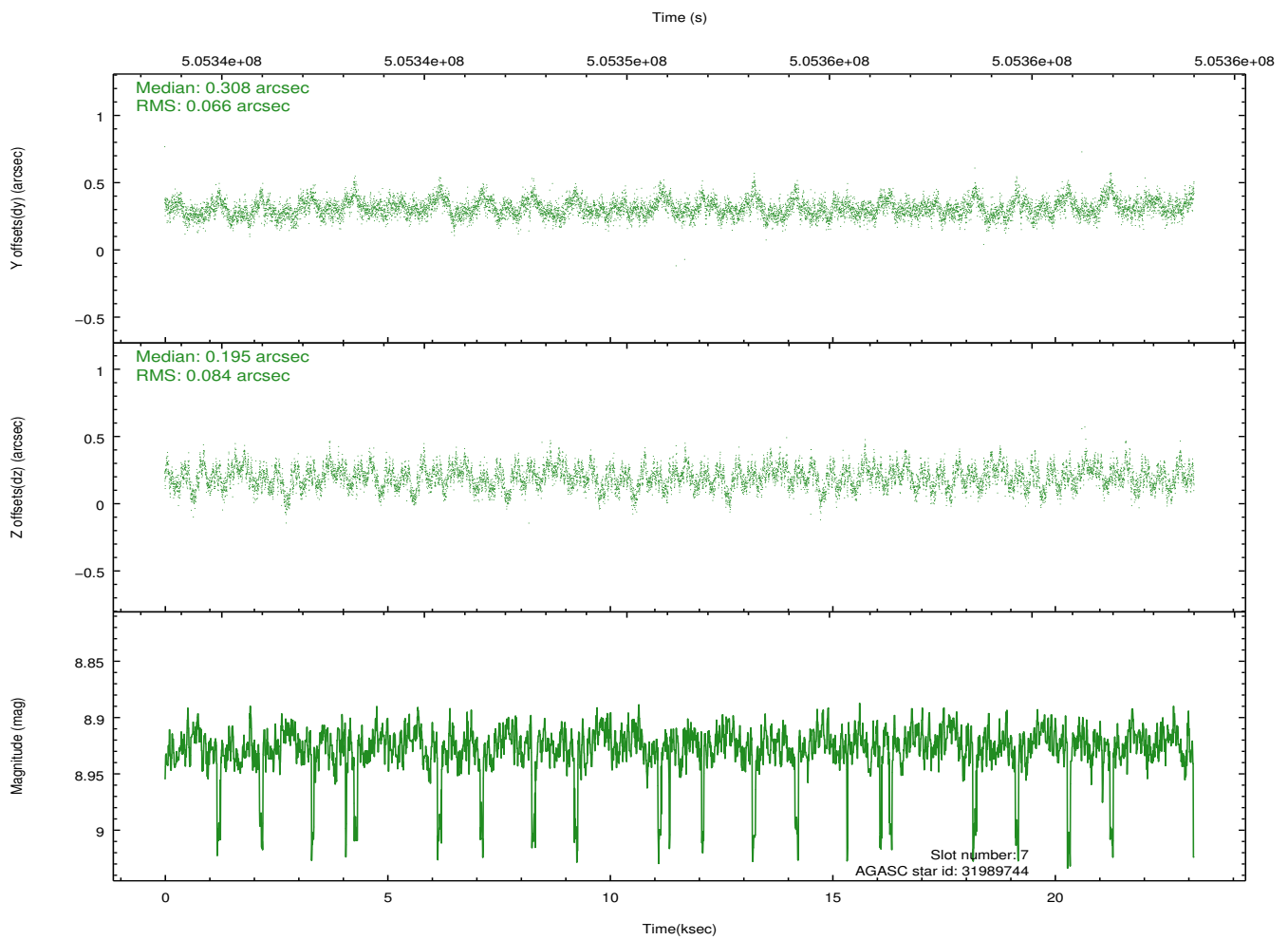
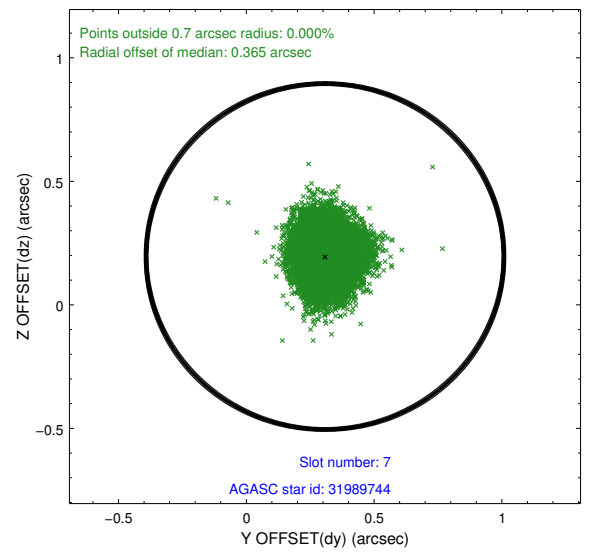
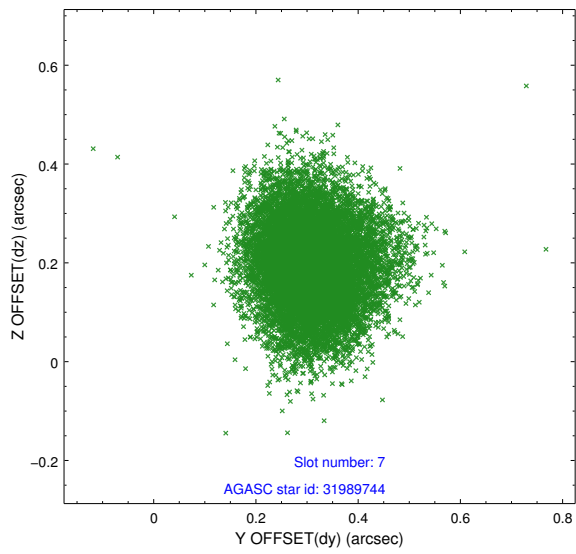
2.4.3 Slot 5



2.4.4 Slot 6

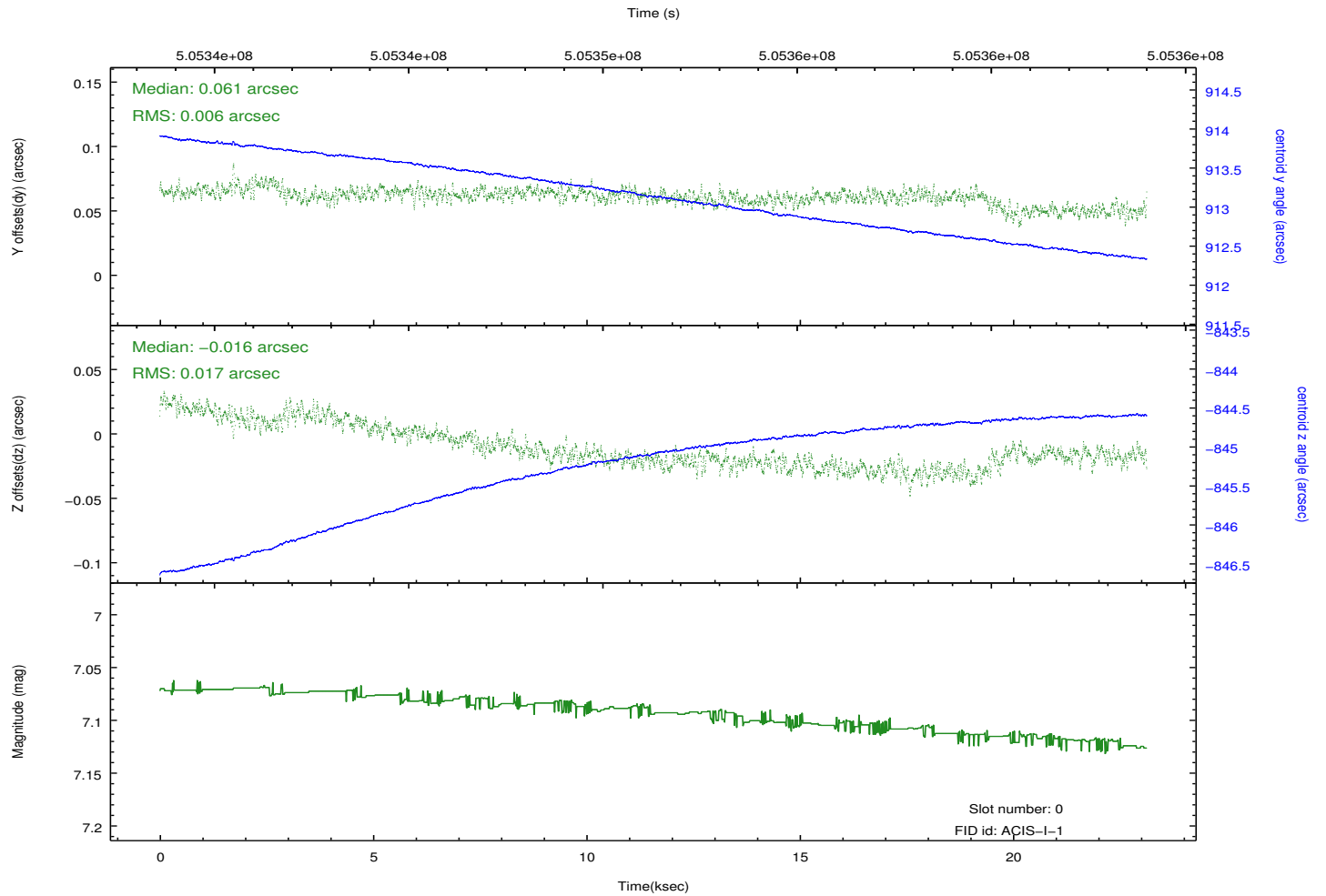
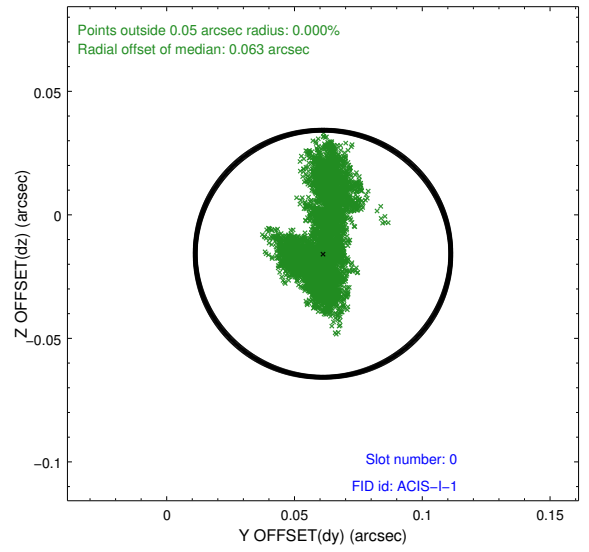
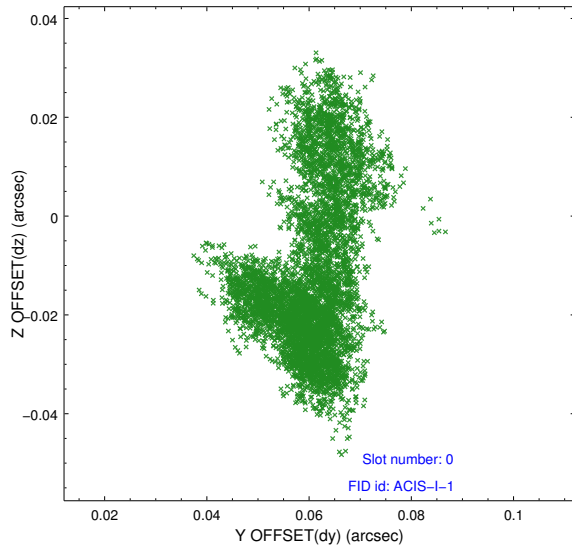


2.4.5 Slot 7

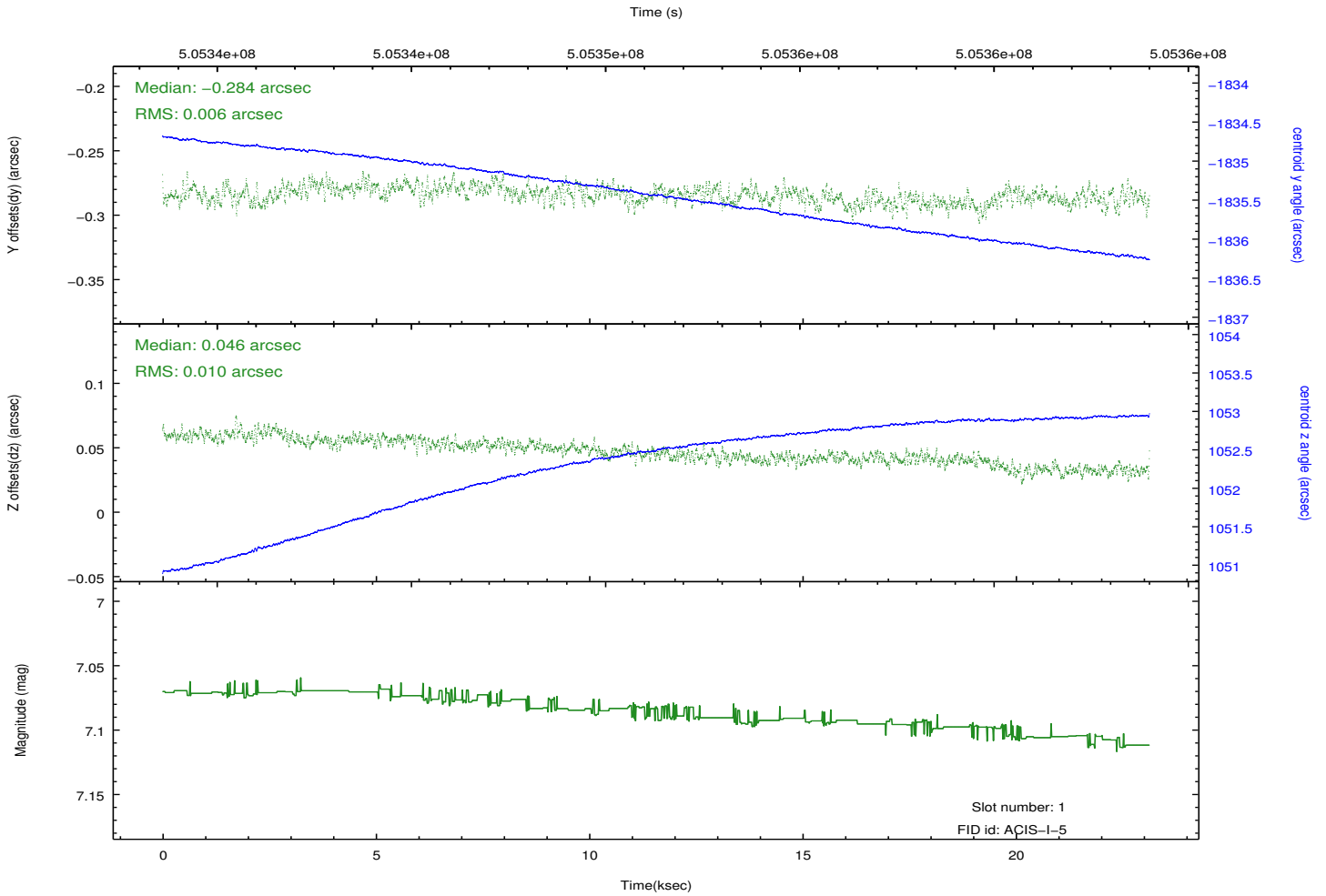
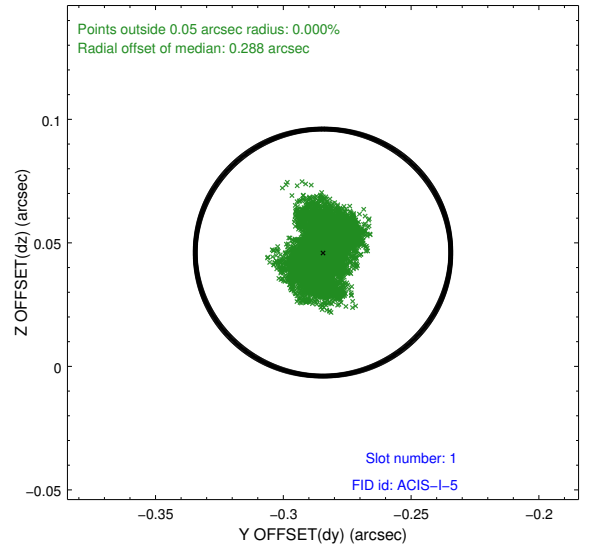
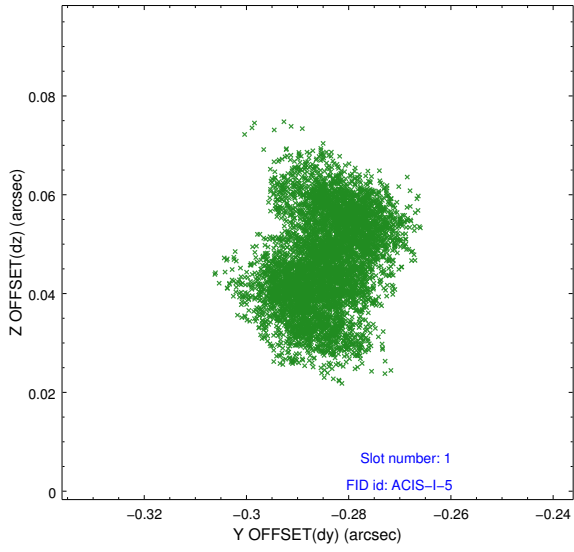


2.5 FID Slots

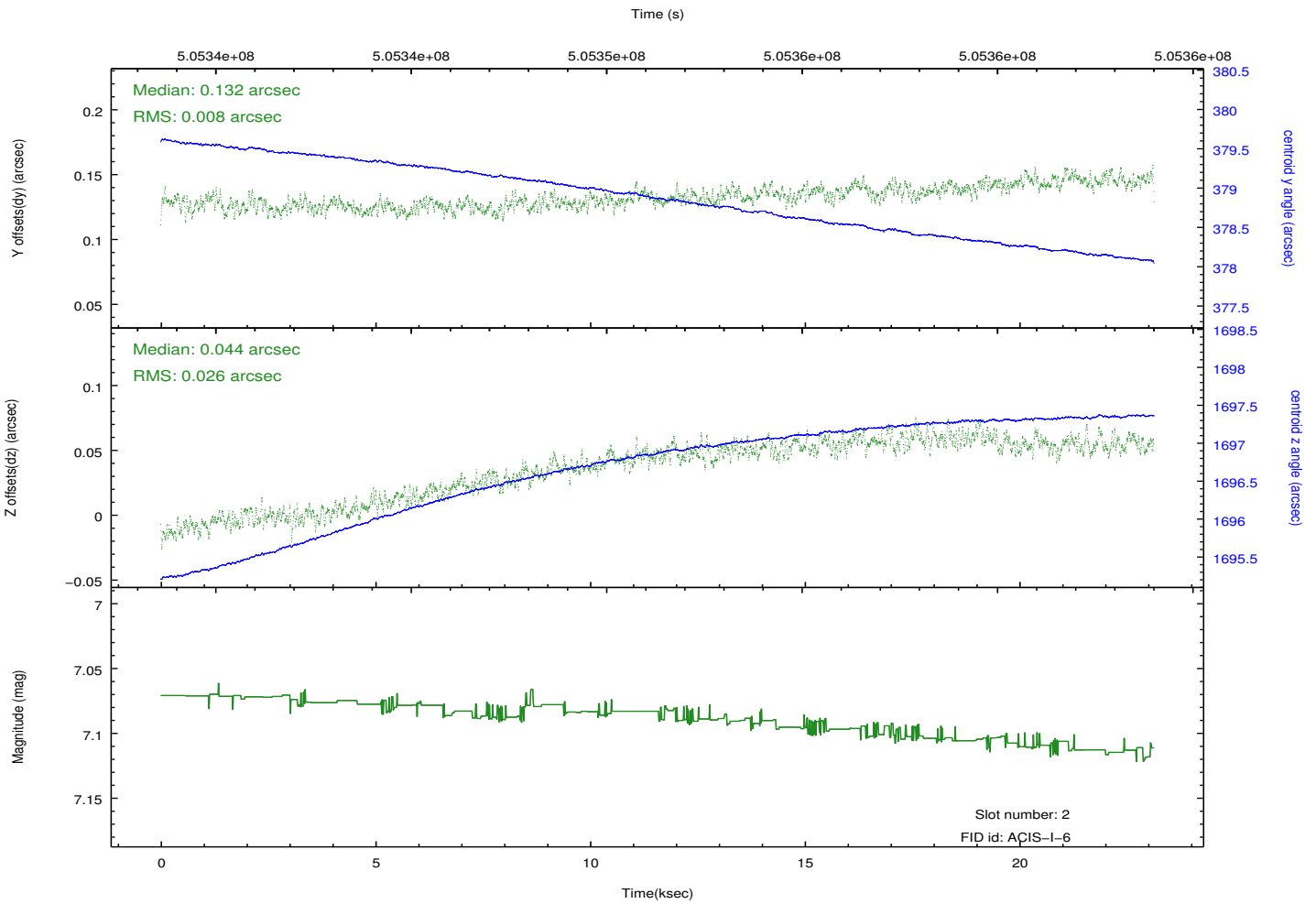
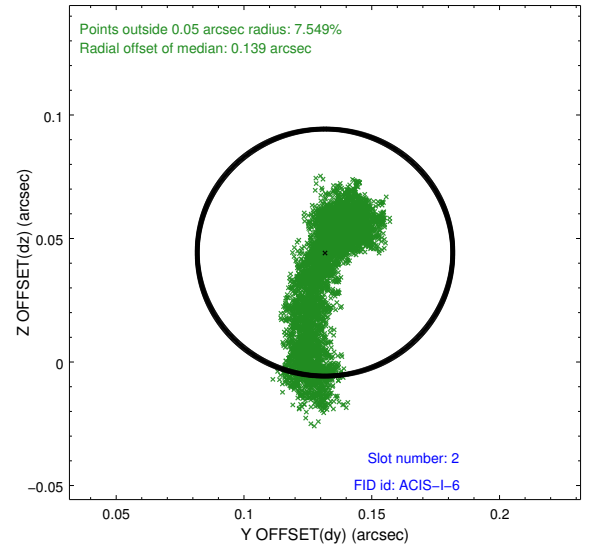
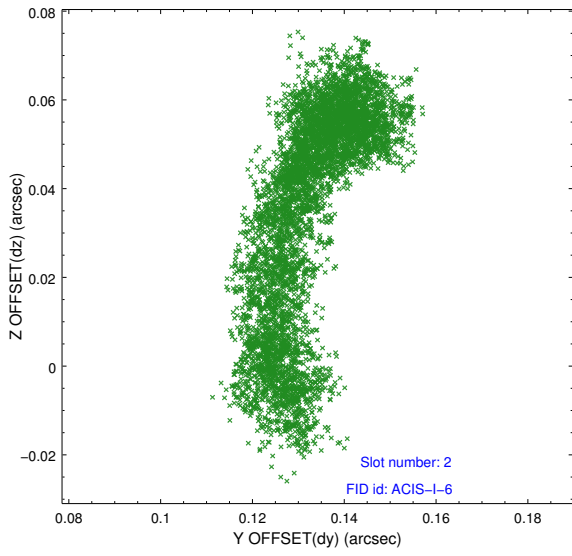
2.5.1 Slot 0



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)	2014.12.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.094599849343

A.2 Comments

Roll preference met.

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.