

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 6378 - L2 Version 4
Chandra X-Ray Center

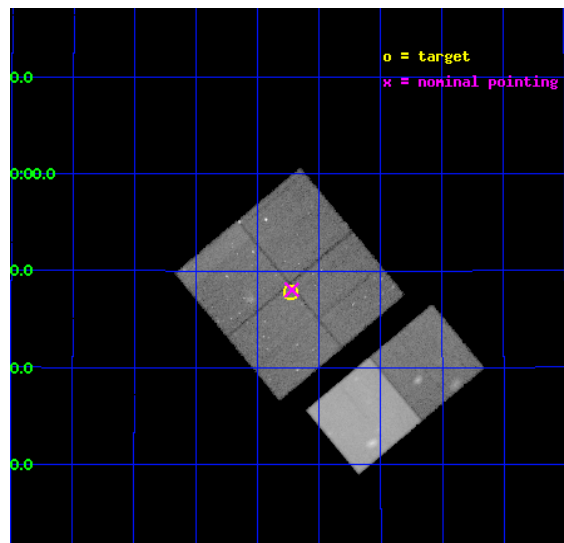
L2 Processing Date : Mar 7 2013

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

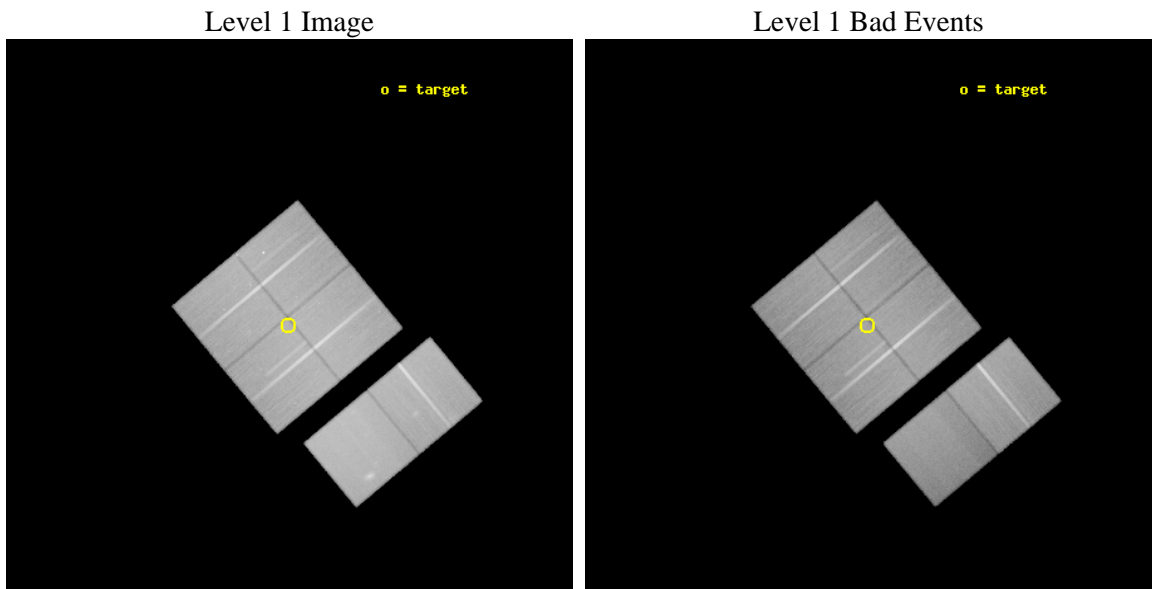
seq_num	600480	Sequence number
obs_id	6378	Observation id
title	The Chandra ACIS Survey of M33 (ChASem33): A Deep Survey of the Nearest Face-on Spiral Galaxy	Proposal title
observer	Dr Manami Sasaki	Principal investigator
object	M33 Field 2	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.5575	Observer's specified target RA [deg]
dec_targ	30.796694	Observer's specified target Dec [deg]
ra_nom	23.555008358028	Nominal RA [deg]
dec_nom	30.800827399567	Nominal Dec [deg]
roll_nom	140.2099608462	Nominal Roll [deg]
revision	4	Processing version of data
ontime	111647.83555311	Sum of GTIs [s]
livetime	110234.08343308	Livetime [s]
ontime0	111654.31757352	Sum of GTIs [s]
ontime1	111654.31755367	Sum of GTIs [s]
ontime2	111647.83559299	Sum of GTIs [s]
ontime3	111647.83555311	Sum of GTIs [s]
ontime6	111657.55858374	Sum of GTIs [s]
ontime7	111660.79958403	Sum of GTIs [s]
l2events	640584	Number of level 2 events



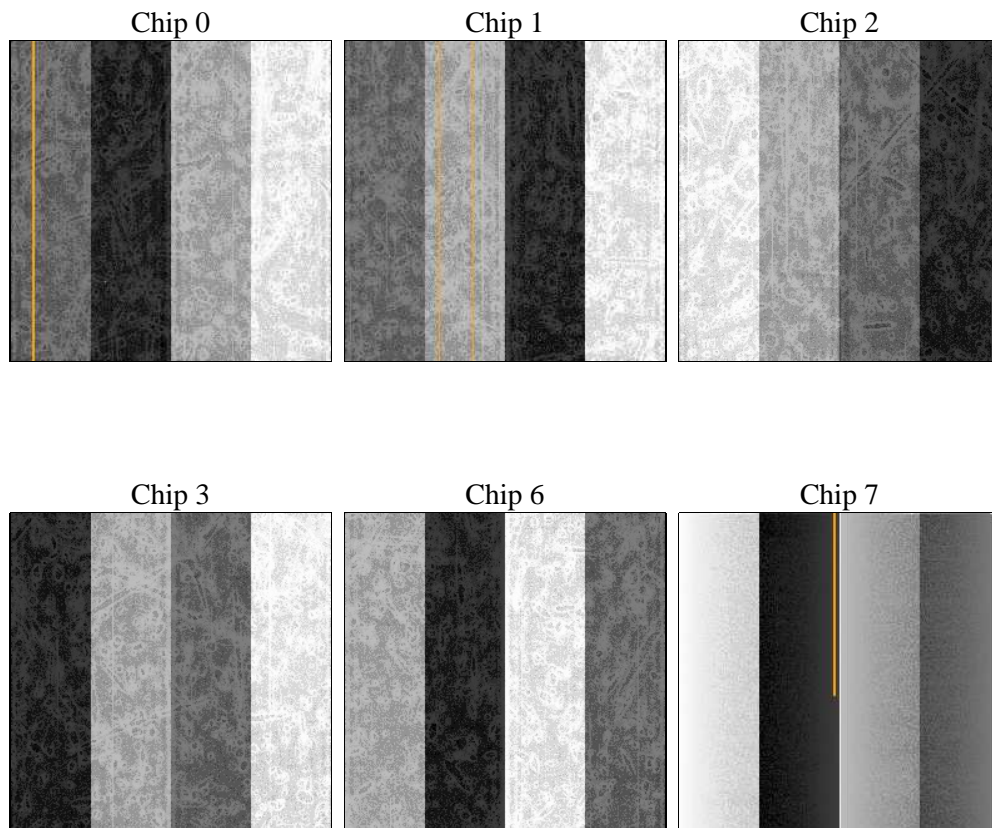
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	111518.218000	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	111647.83555311	Sum of GTIs [s]
caldbver	4.5.6	 	ontime0	111654.31757352	Sum of GTIs [s]
date	2013-03-07T21:41:19	Date and time of file creation	ontime1	111654.31755367	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	111647.83559299	Sum of GTIs [s]
			ontime3	111647.83555311	Sum of GTIs [s]
			ontime6	111657.55858374	Sum of GTIs [s]
			ontime7	111660.79958403	Sum of GTIs [s]
			l1events	3873281	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	592399	588159	654791	621154	664092	752686	grade 0 events	27293	30694	26704	25730	30173	34627
rejected events	523365	512077	588023	556460	589134	400131		4%	5%	4%	4%	4%	4%
rejected %	88%	87%	89%	89%	88%	53%	grade 1 events	359	317	360	362	323	600
								0%	0%	0%	0%	0%	0%
							grade 2 events	15587	16151	15335	13532	15558	71941
								2%	2%	2%	2%	2%	9%
							grade 3 events	7444	7946	6894	7019	7715	33415
								1%	1%	1%	1%	1%	4%
							grade 4 events	6856	7761	6945	6964	7460	33240
								1%	1%	1%	1%	1%	4%
							grade 5 events	22005	24769	21209	26235	26777	76693
								3%	4%	3%	4%	4%	10%
							grade 6 events	12807	14628	11924	12408	15030	184123
								2%	2%	1%	1%	2%	24%
							grade 7 events	500048	485893	565420	528904	561056	318047
								84%	82%	86%	85%	84%	42%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	23.586463	23.55500835802769	Subarray requested	NONE	NONE
[deg] Pointing Dec	30.796271	30.80082739956717	Alternating exposures requested	N	N
[deg] Pointing Roll	139.985172	140.2099608462046	[s] Primary exposure time	0.000000	3.2
[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)	243650766.184000	243648916.85929			
Observation start date	2005-09-21T00:45:02	2005-09-21T00:15:16			
[s] Observation end time (MET)	243762284.184000	243762517.10202			
Observation end date	2005-09-22T07:43:40	2005-09-22T07:48:37			
Read mode	TIMED	TIMED			

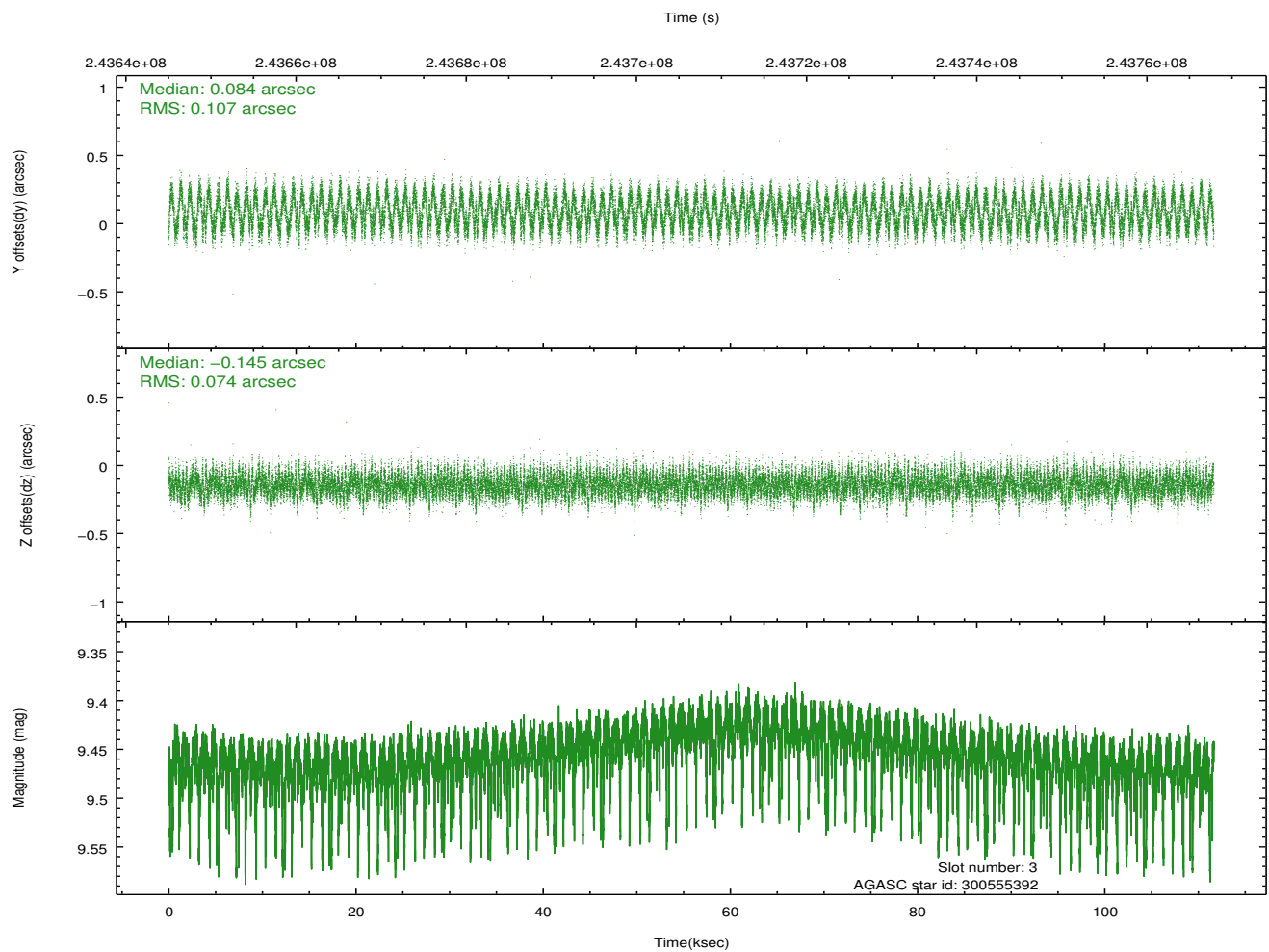
2.3 Aspect

Slot Statistics

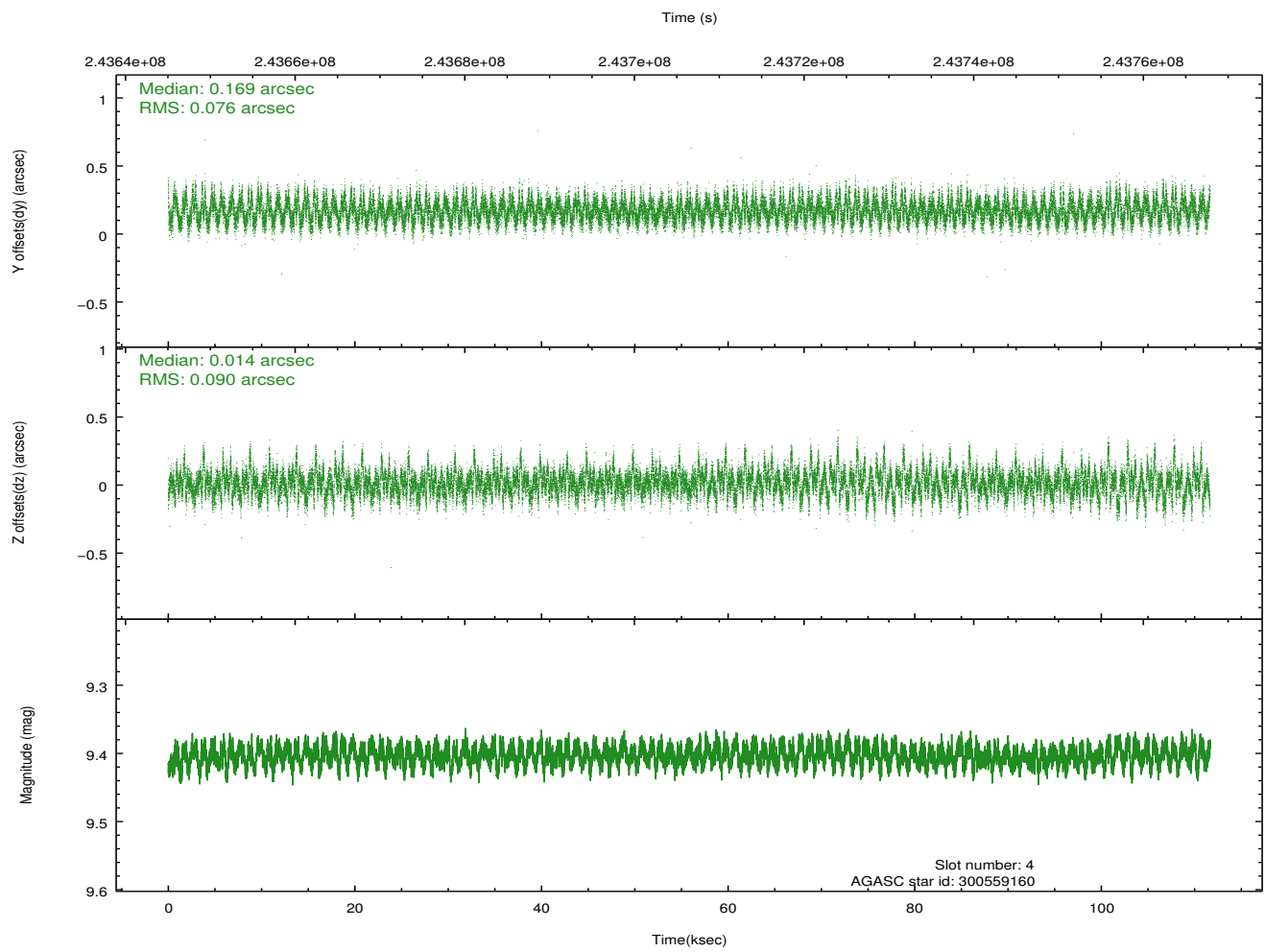
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	27236	0.009	0.009	0.010	0.036	0.000000	0.000000	932.51	-833.54
1	FID	ACIS-I-5	7.23	27233	-0.151	0.031	0.008	0.019	0.000000	0.000000	-1815.81	1064.02
2	FID	ACIS-I-6	7.26	27235	0.051	0.031	0.009	0.024	0.000000	0.000000	398.20	1708.42
3	GUIDE	300555392	9.46	54311	0.084	-0.145	0.141	0.216	23.346905	30.948175	918.87	56.32
4	GUIDE	300559160	9.40	54438	0.169	0.014	0.124	0.207	24.161026	30.632205	-1739.53	-695.42
5	GUIDE	300559960	7.87	54469	-0.275	-0.115	0.059	0.094	22.944463	30.624765	1129.30	1747.24
6	GUIDE	300561200	8.25	54463	0.017	0.130	0.067	0.110	24.520259	30.789866	-2219.73	-1849.33
7	GUIDE	300553080	9.07	54445	0.002	0.118	0.084	0.134	23.777101	30.773227	-504.45	-315.79

2.4 Star Slots

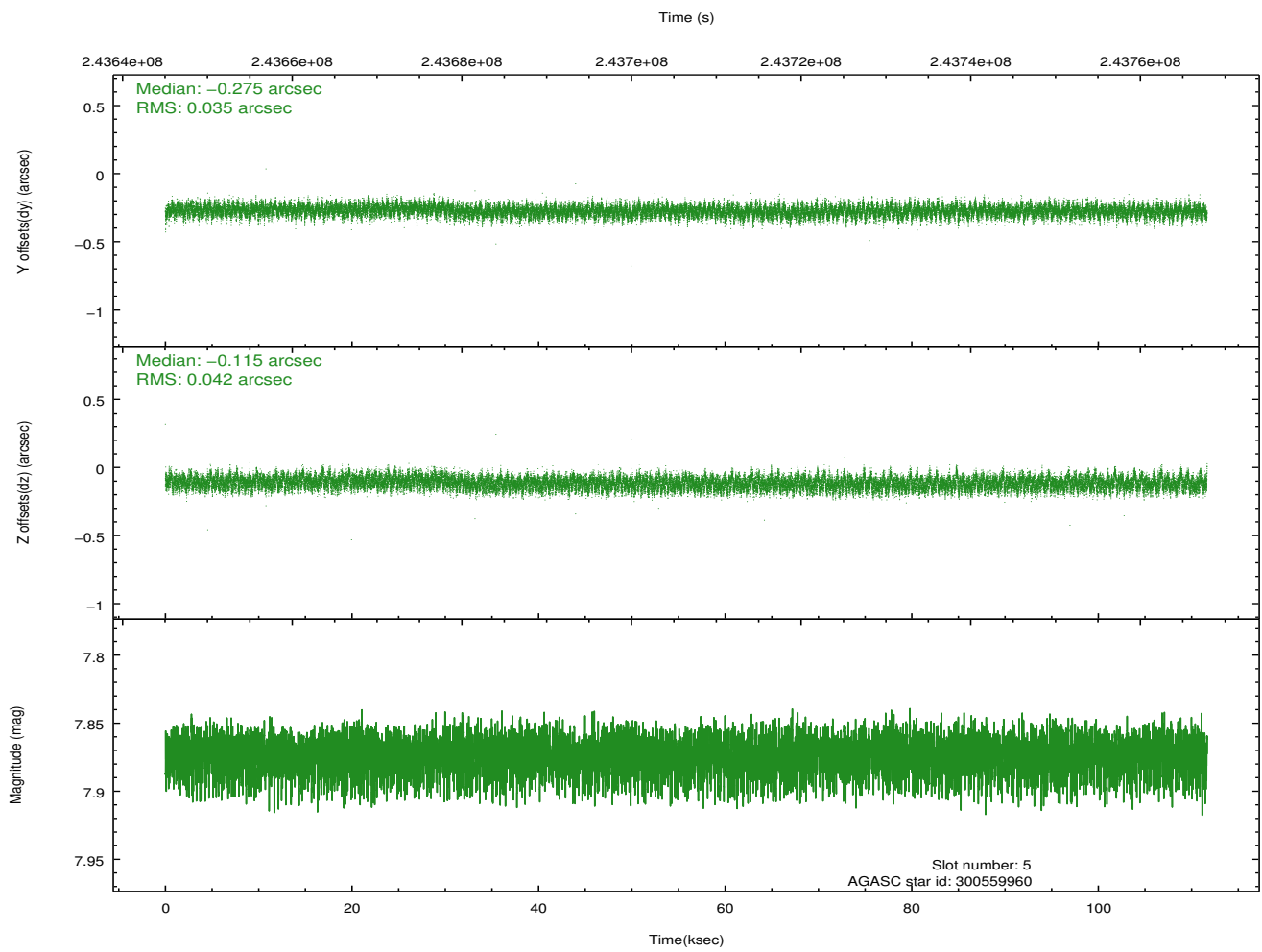
2.4.1 Slot 3



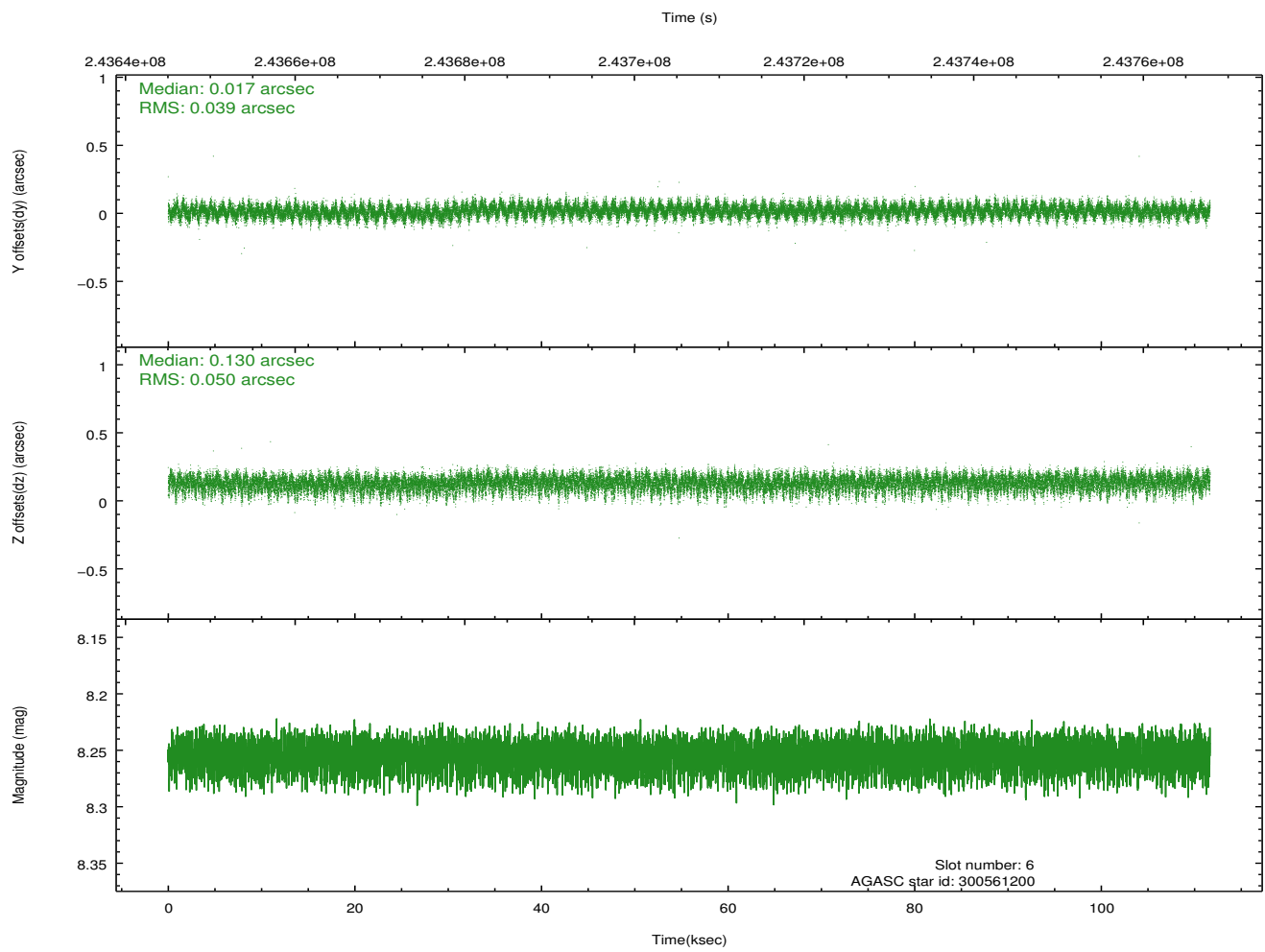
2.4.2 Slot 4



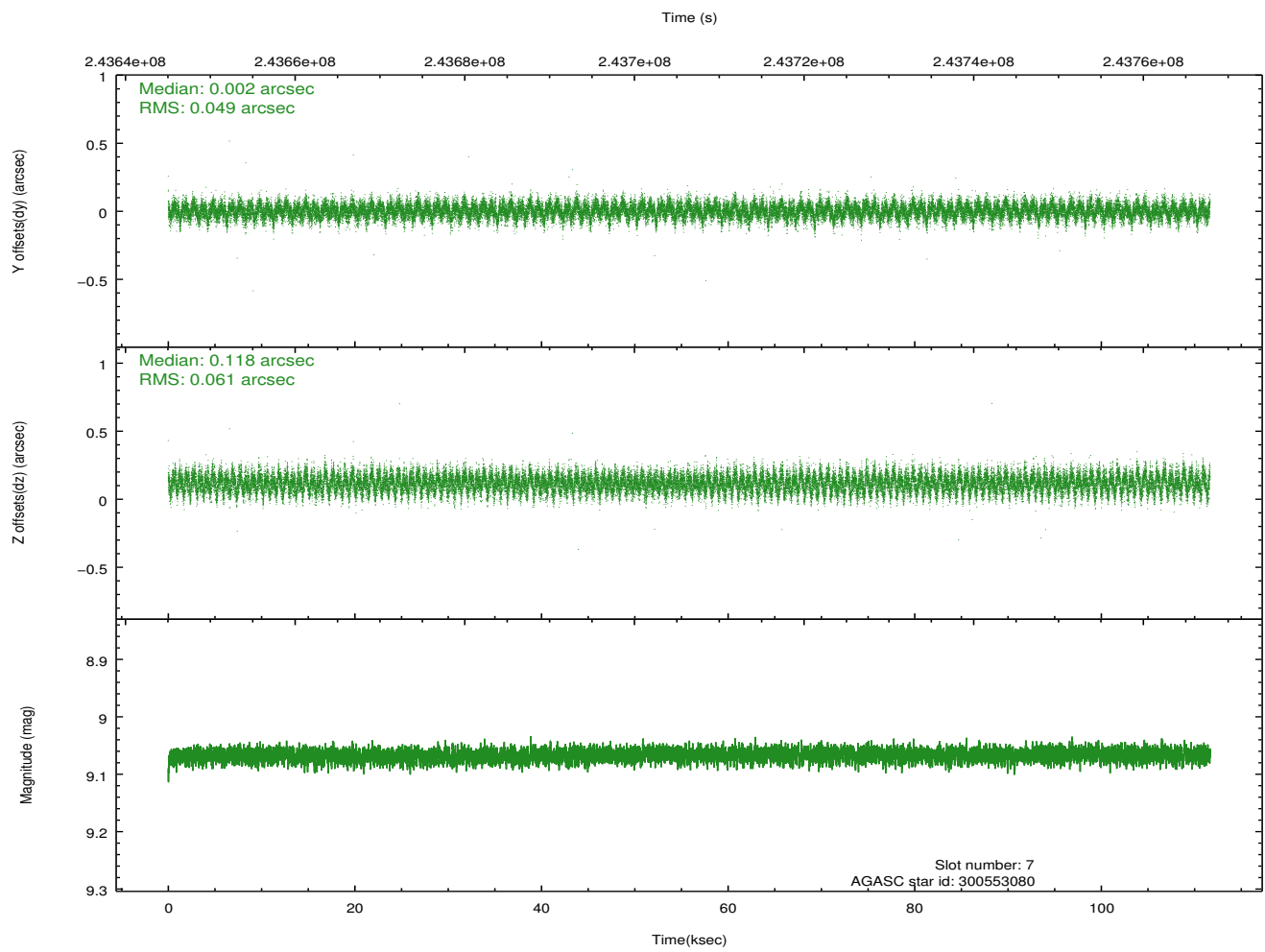
2.4.3 Slot 5



2.4.4 Slot 6

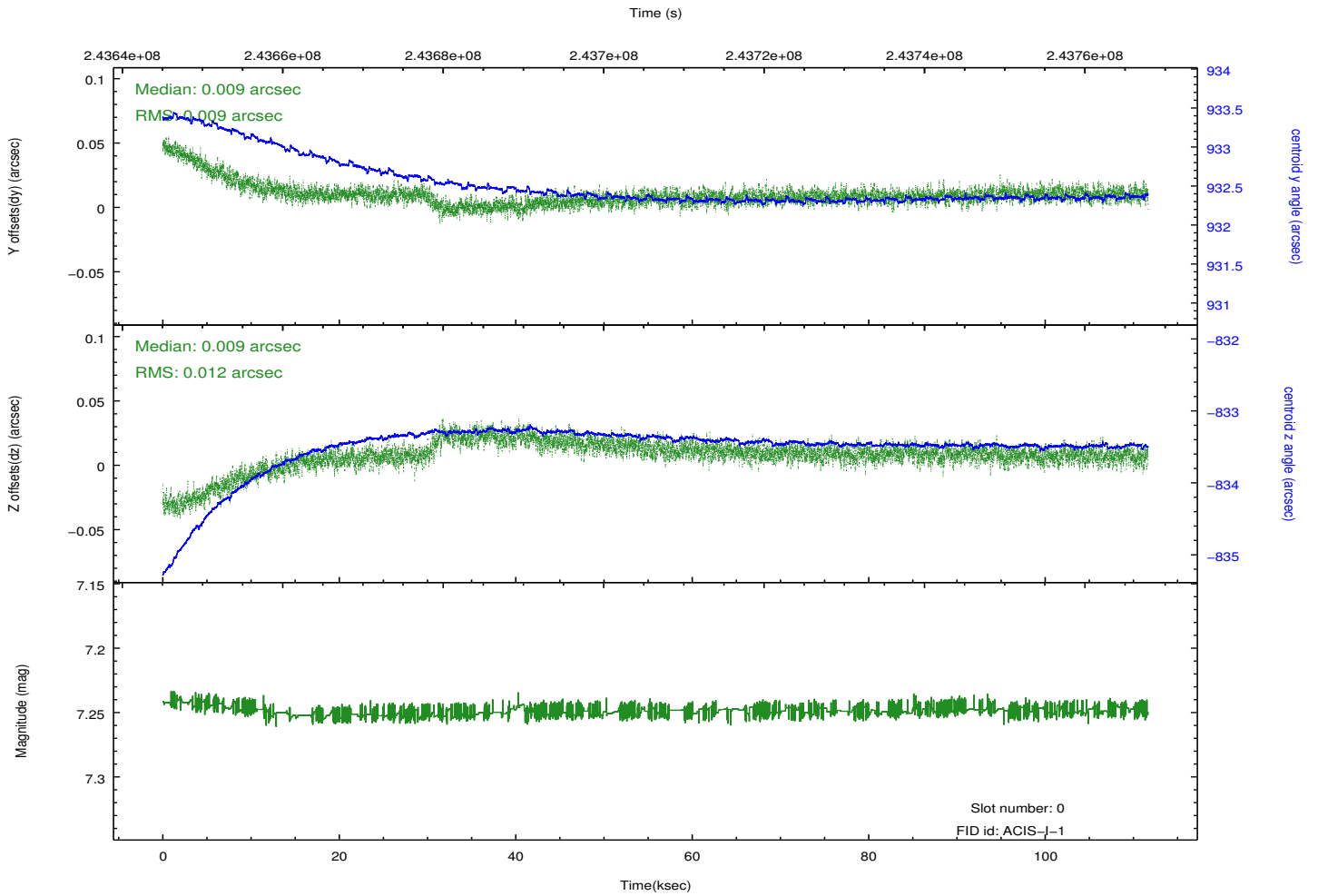
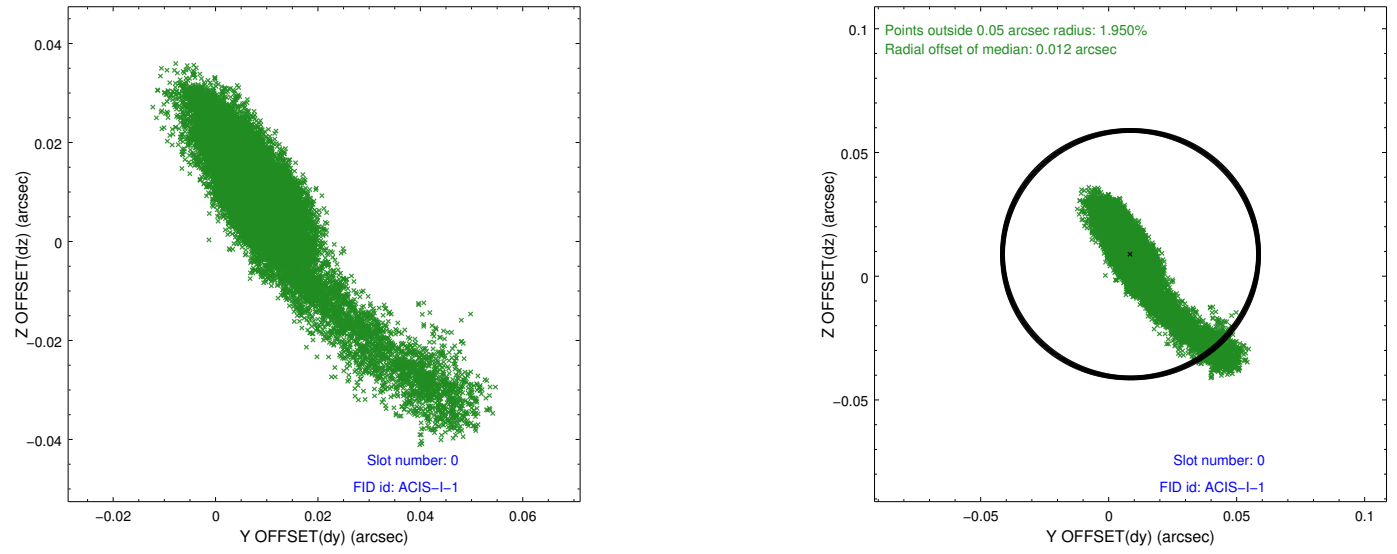


2.4.5 Slot 7

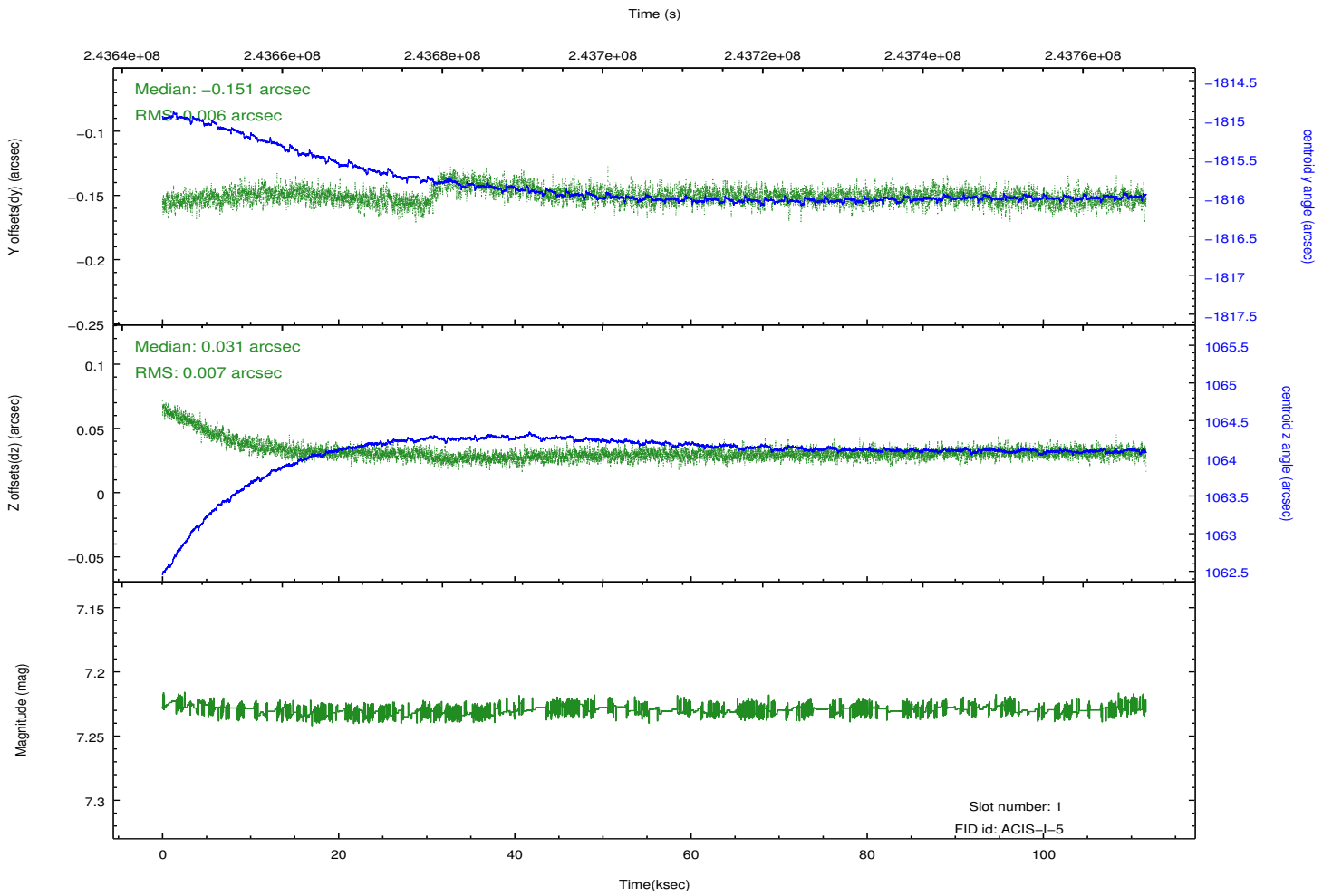
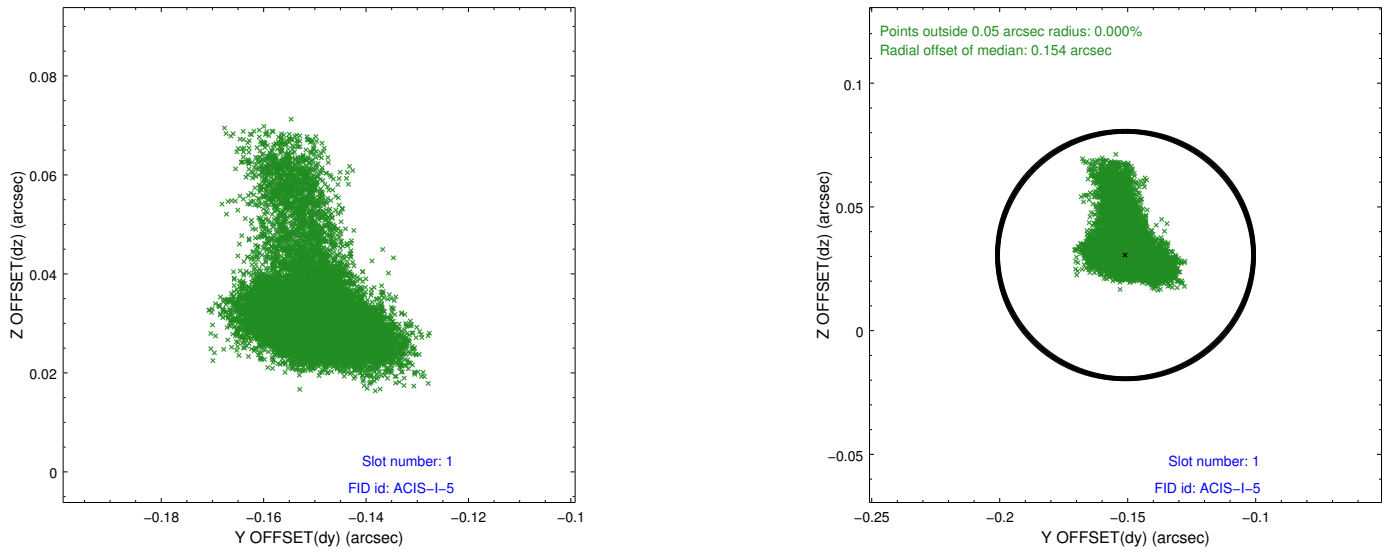


2.5 FID Slots

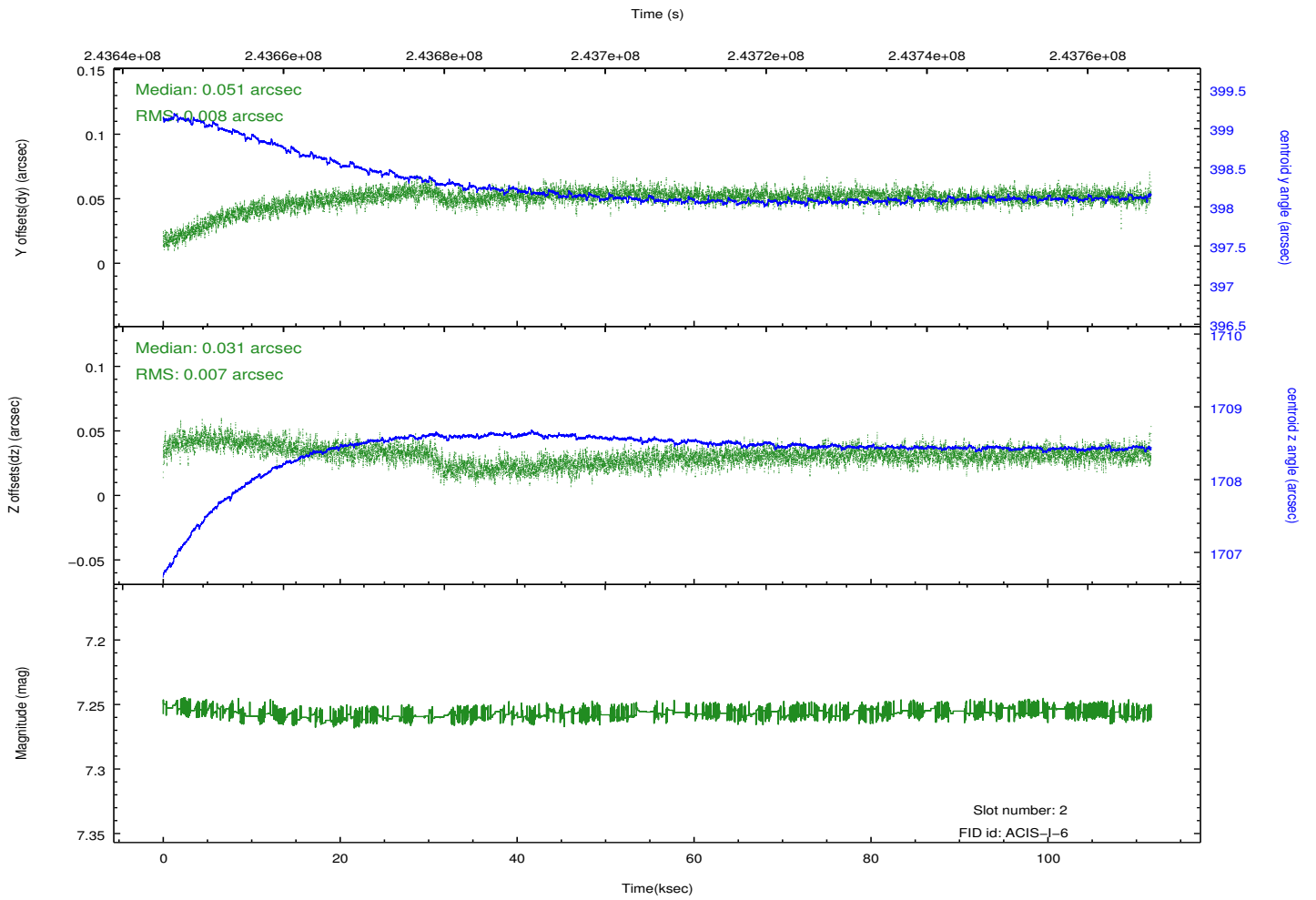
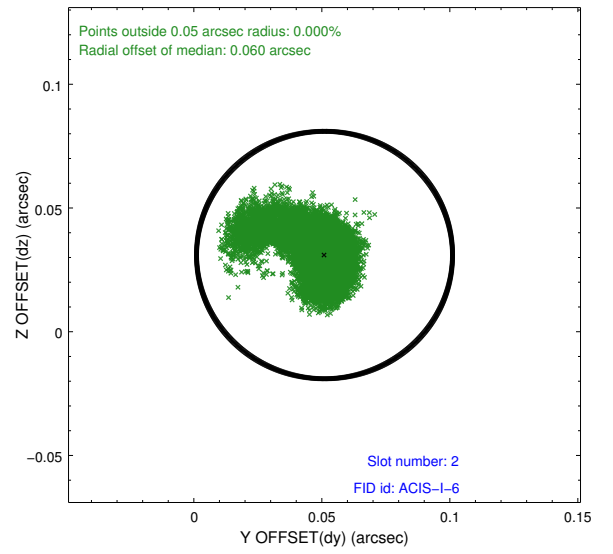
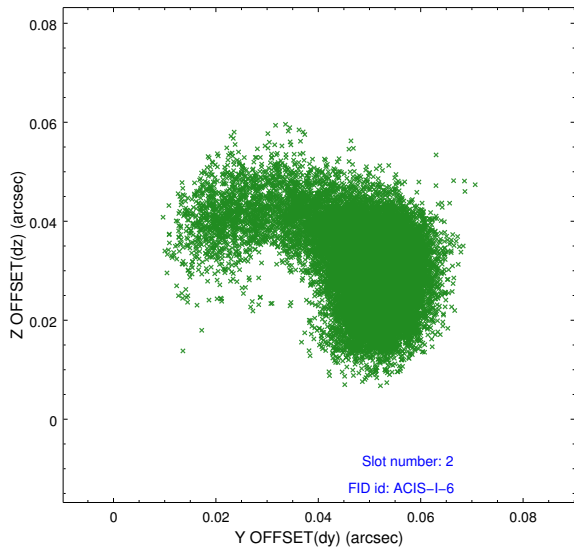
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.03.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	111.6478

A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. The value for FP temperature reported in the headers of the Level 2 event file and the Mission Timeline files are incorrect by this amount for this processing. However, the temperature is corrected in the processing in order to obtain the correct temperature for the CTI correction. So the calibrated data are correct. If using the FP temp values in the headers of data files (some CIAO tools require this information), investigators should subtract 1.3 degrees from the reported temperature to determine the true temperature.

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Roll preference met.