

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 6378 - L2 Version 002
Chandra X-Ray Center

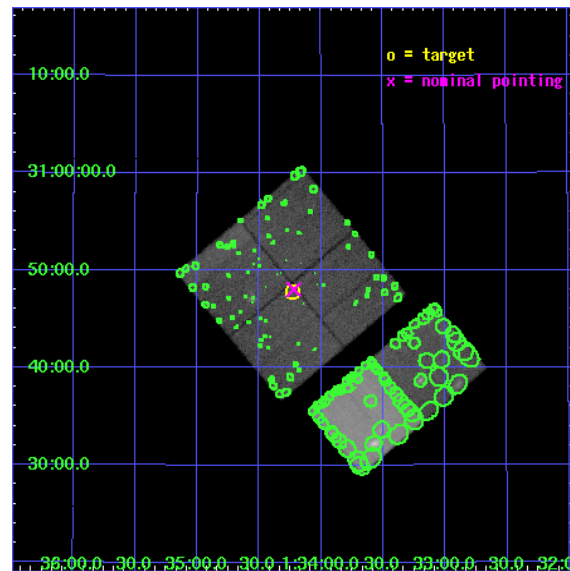
L2 Processing Date : Mar 26 2006

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1 Front

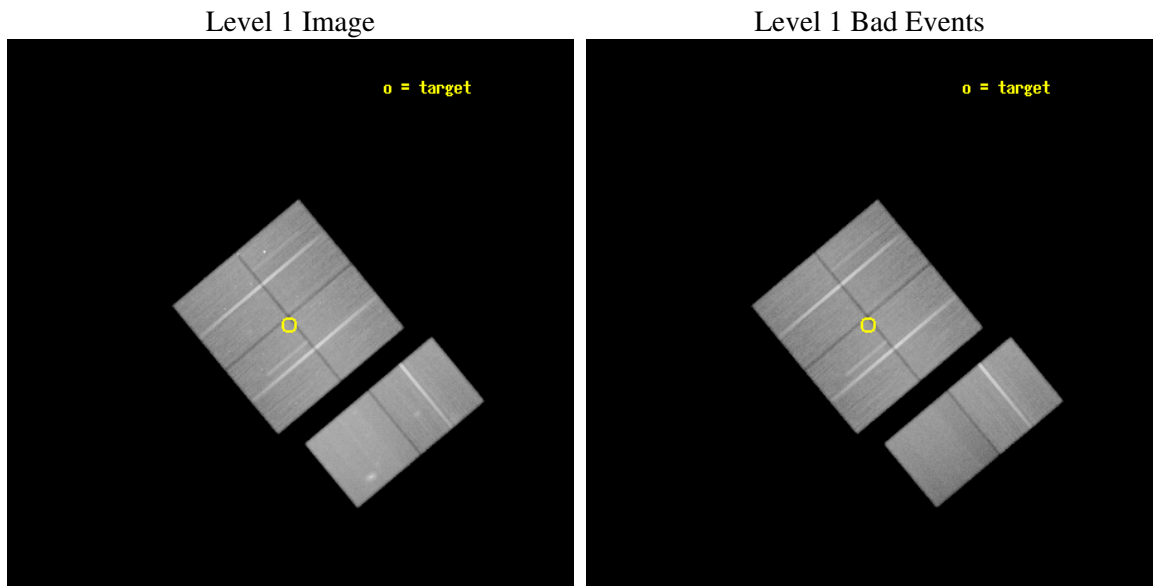
seq_num	600480
obs_id	6378
title	The Chandra ACIS Survey of M33 (ChASeM33): A Deep Survey of the Nearest Face-on Spiral Galaxy
observer	Dr Manami Sasaki
object	M33 Field 2
dtcycle	0
cycle	P
ra_targ	23.5575
dec_targ	30.796694
ra_nom	23.555033130786
dec_nom	30.800809544428
roll_nom	140.20994815426
revision	2
ontime	111647.83555311
livetime	110234.08343308
ontime0	111654.31757352
ontime1	111654.31755367
ontime2	111647.83559299
ontime3	111647.83555311
ontime6	111657.55858374
ontime7	111660.79958403
l2events	615475



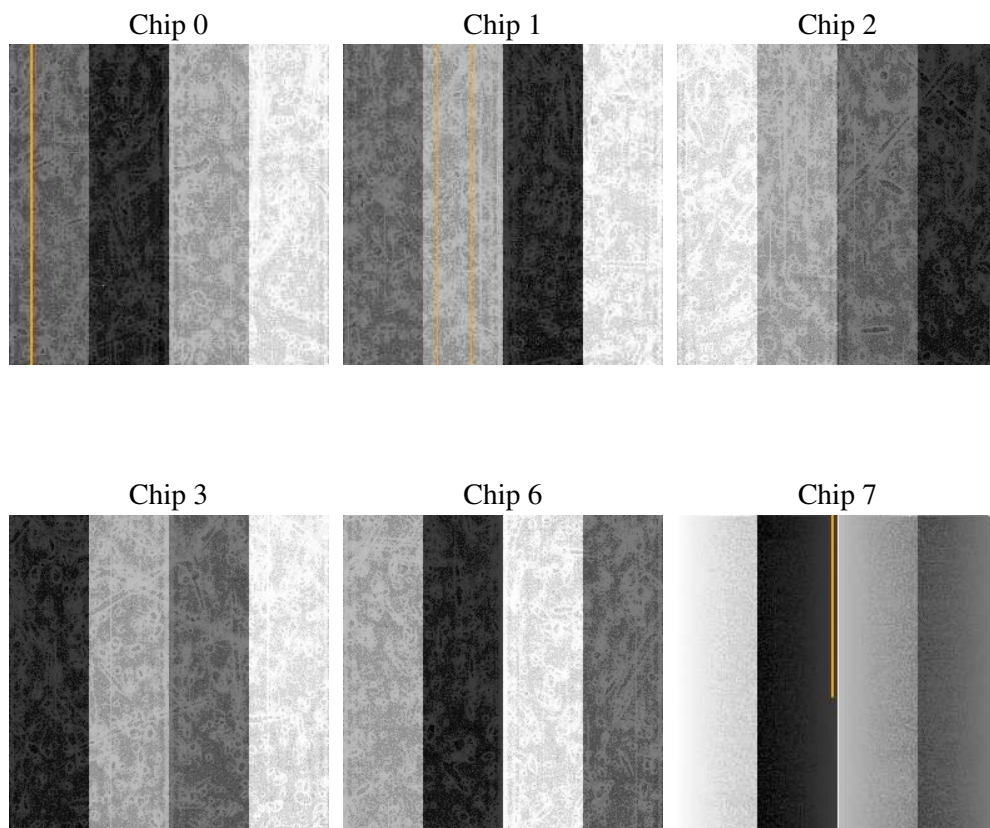
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.1
caldsver	3.2.1
date	2006-03-26T00:24:49
revision	2

sched_exp_time	111518.218000
ontime	113247.58616787
ontime0	113254.06820819
ontime1	113254.06818834
ontime2	113247.58622766
ontime3	113247.58616787
ontime6	113257.30921841
ontime7	113260.5502187
l1events	3873281

2.1.4 Events

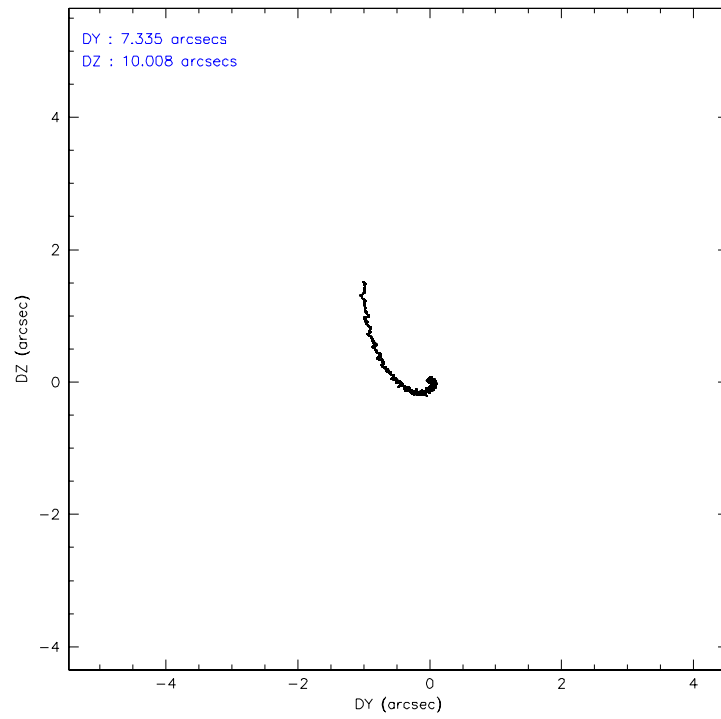
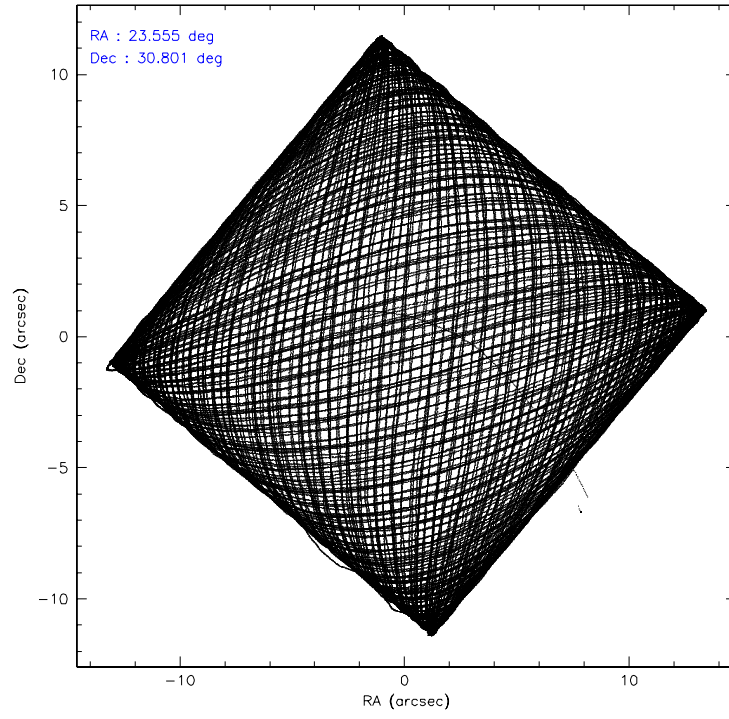
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	592399	588159	654791	621154	664092	752686
rejected events	523369	512071	588015	556461	589134	427326
rejected %	88%	87%	89%	89%	88%	56%

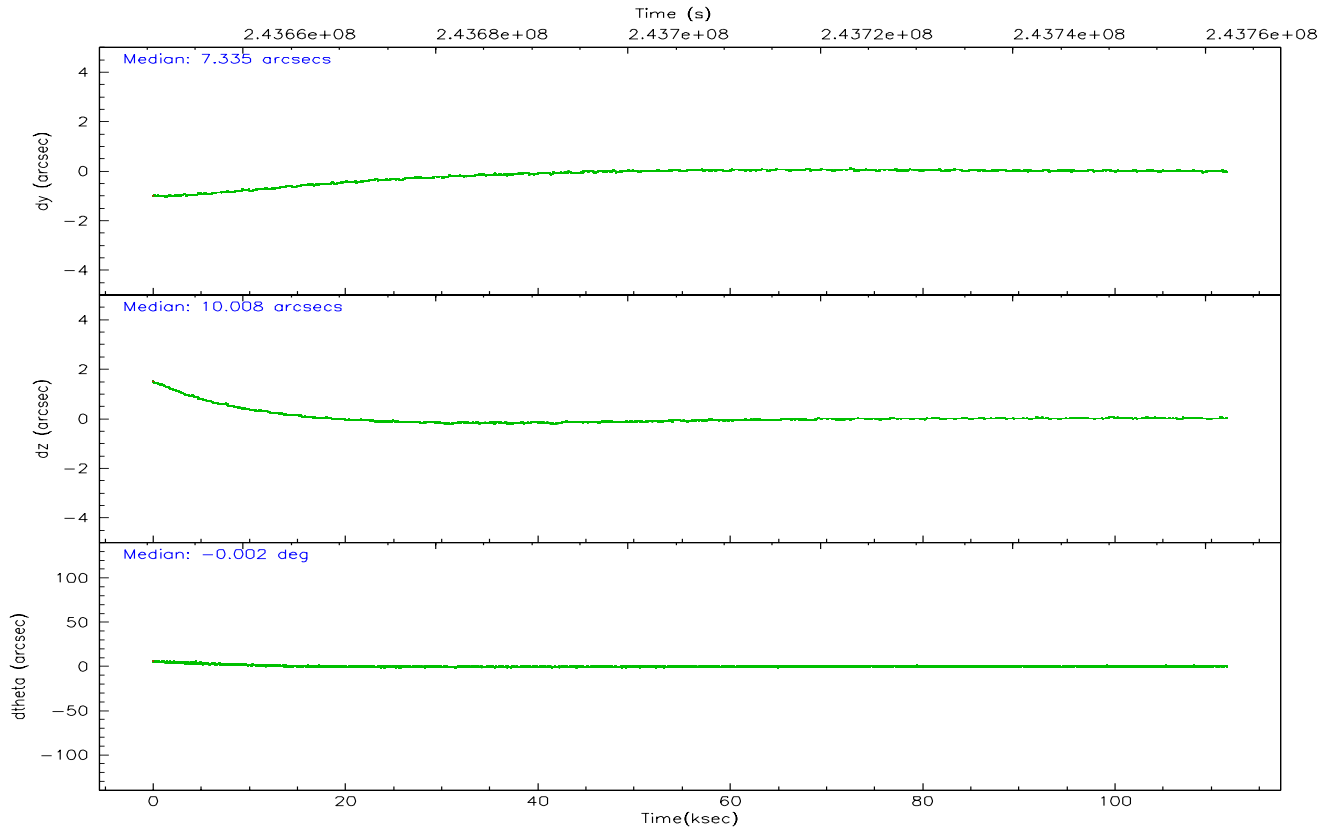
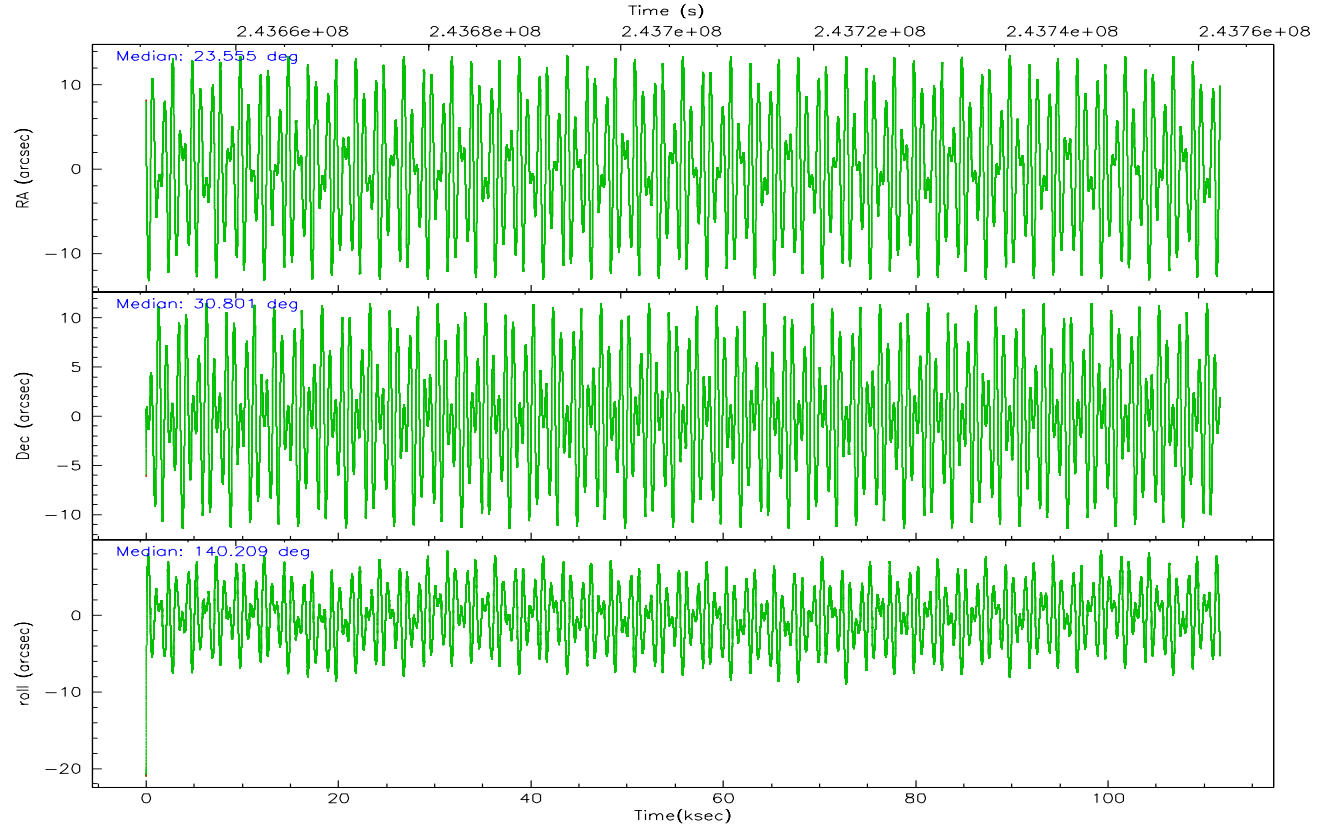
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	27293	30679	26703	25725	30166	22083
	4%	5%	4%	4%	4%	2%
grade 1 events	358	317	358	362	322	342
	0%	0%	0%	0%	0%	0%
grade 2 events	15587	16166	15336	13537	15565	82060
	2%	2%	2%	2%	2%	10%
grade 3 events	7441	7941	6887	7013	7705	18795
	1%	1%	1%	1%	1%	2%
grade 4 events	6851	7757	6943	6965	7457	18342
	1%	1%	1%	1%	1%	2%
grade 5 events	21988	24750	21192	26224	26740	53481
	3%	4%	3%	4%	4%	7%
grade 6 events	12812	14645	11942	12412	15046	188478
	2%	2%	1%	1%	2%	25%
grade 7 events	500069	485904	565430	528916	561091	369105
	84%	82%	86%	85%	84%	49%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	23.586463	23.55503313078567	Alternating exposures requested	N	N
Pointing Dec	30.796271	30.80080954442792	Primary exposure time	0.000000	3.2
Pointing Roll	139.985172	140.2099481542633			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	243650766.184000	243648916.85929			
Observation start date	2005-09-21T00:45:02	2005-09-21T00:15:16			
Observation end time	243762284.184000	243762517.10202			
Observation end date	2005-09-22T07:43:40	2005-09-22T07:48:37			
Read mode	TIMED	TIMED			

2.3 Aspect



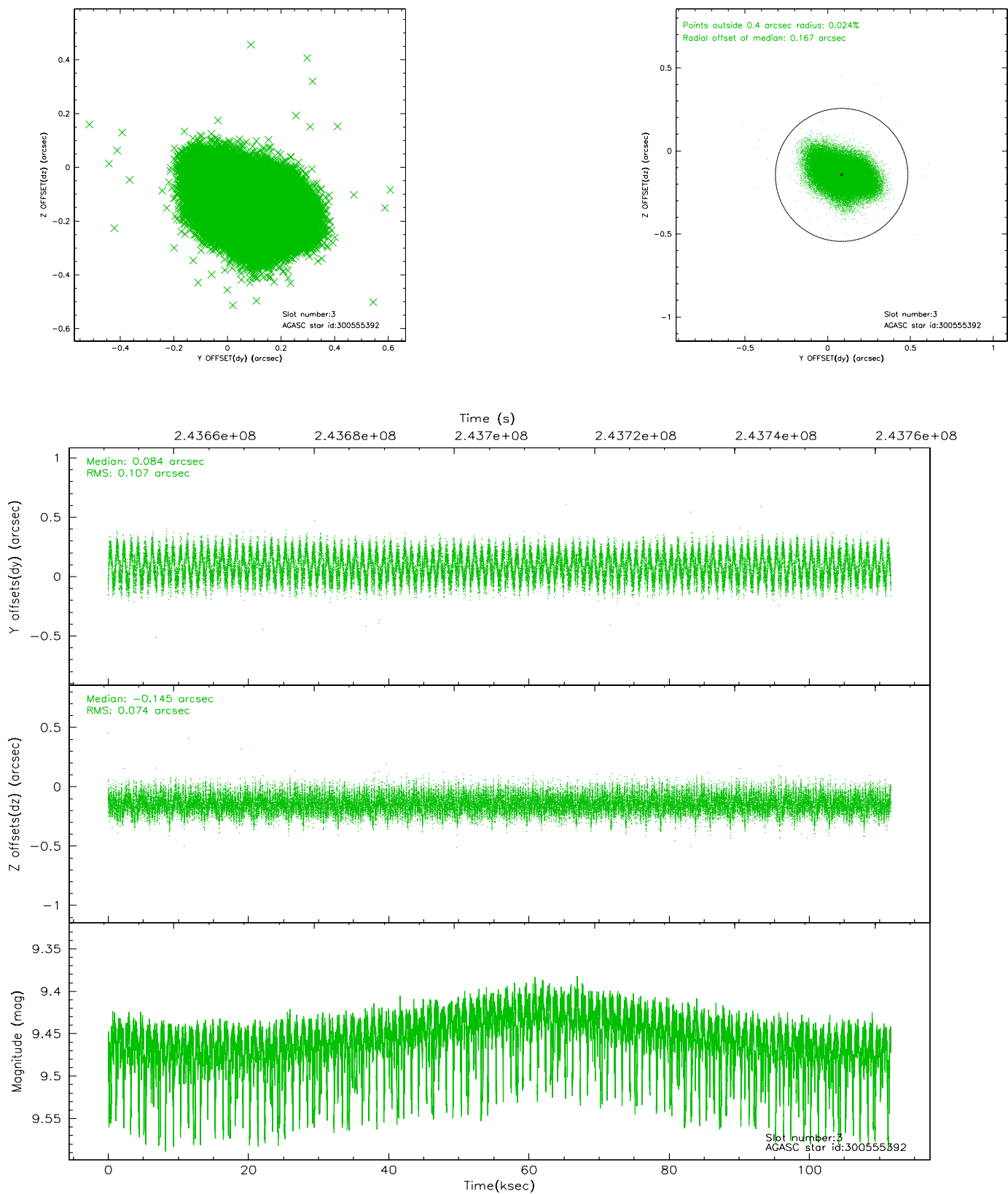


Slot Statistics

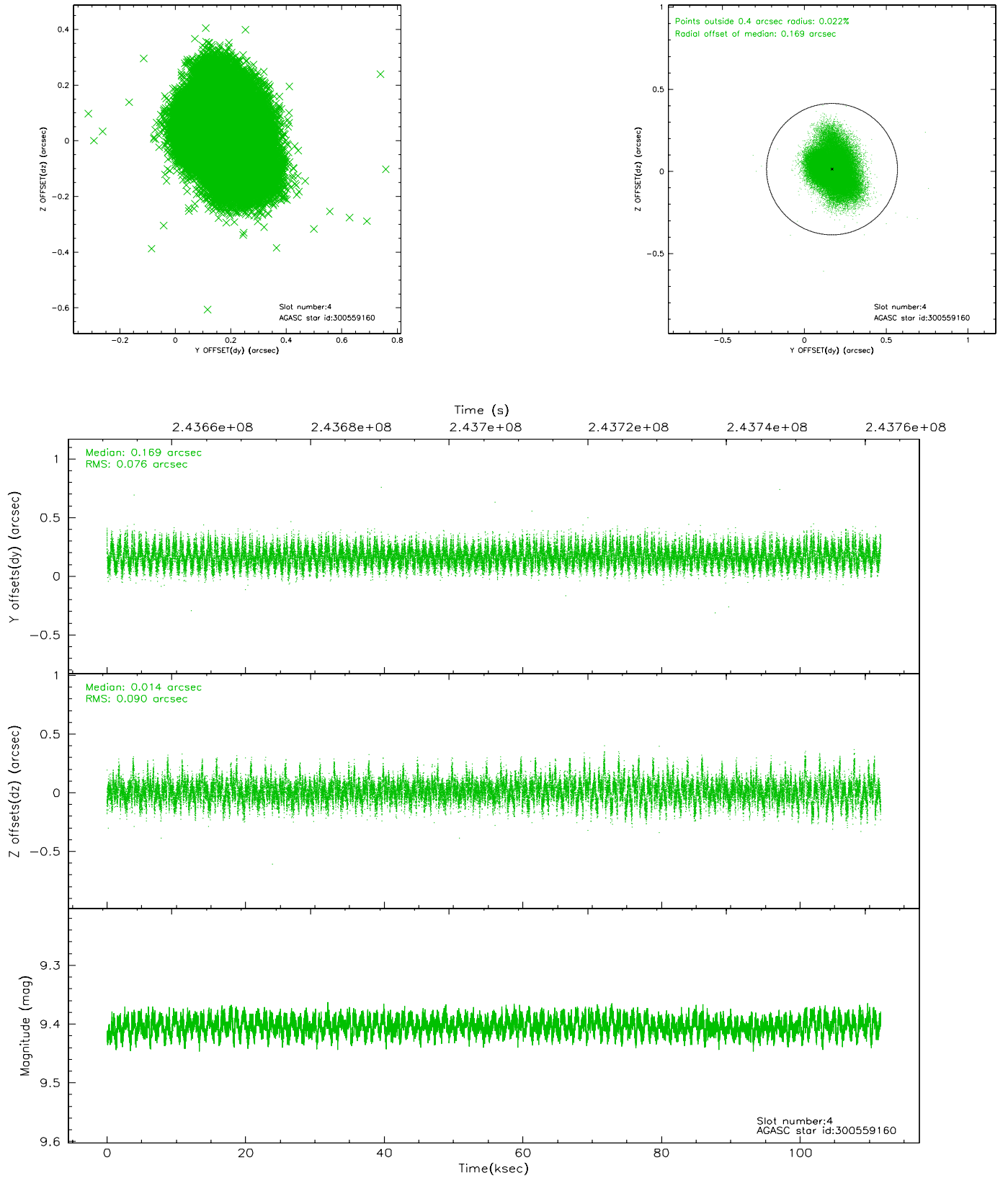
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	27236	-0.011	0.036	0.010	0.032	0.000000	0.000000	932.50	-833.50
1	FID	ACIS-I-5	7.23	27233	-0.120	0.023	0.007	0.017	0.000000	0.000000	-1815.77	1064.03
2	FID	ACIS-I-6	7.26	27235	0.041	0.012	0.009	0.024	0.000000	0.000000	398.19	1708.41
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

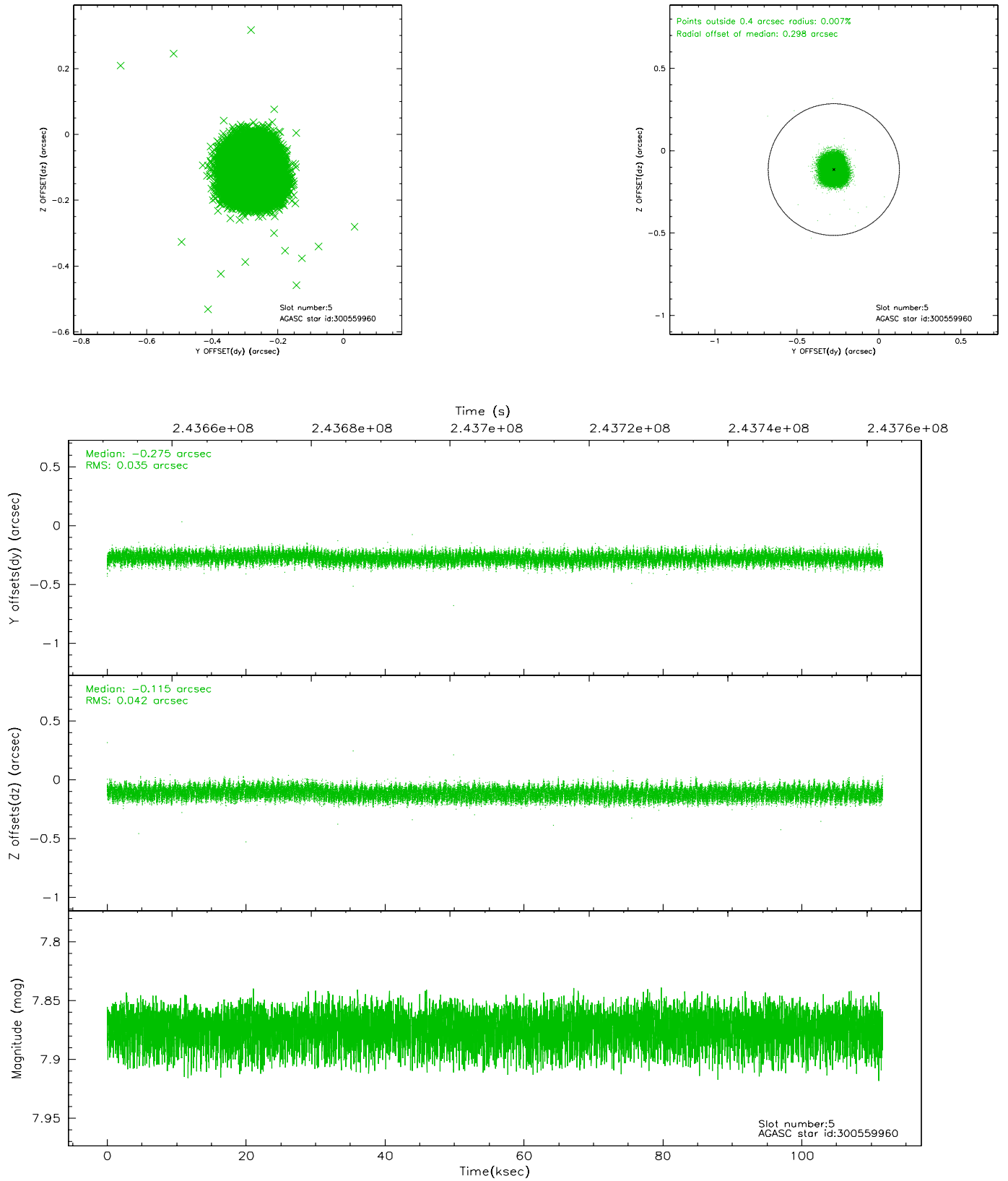
2.4.1 Slot 3



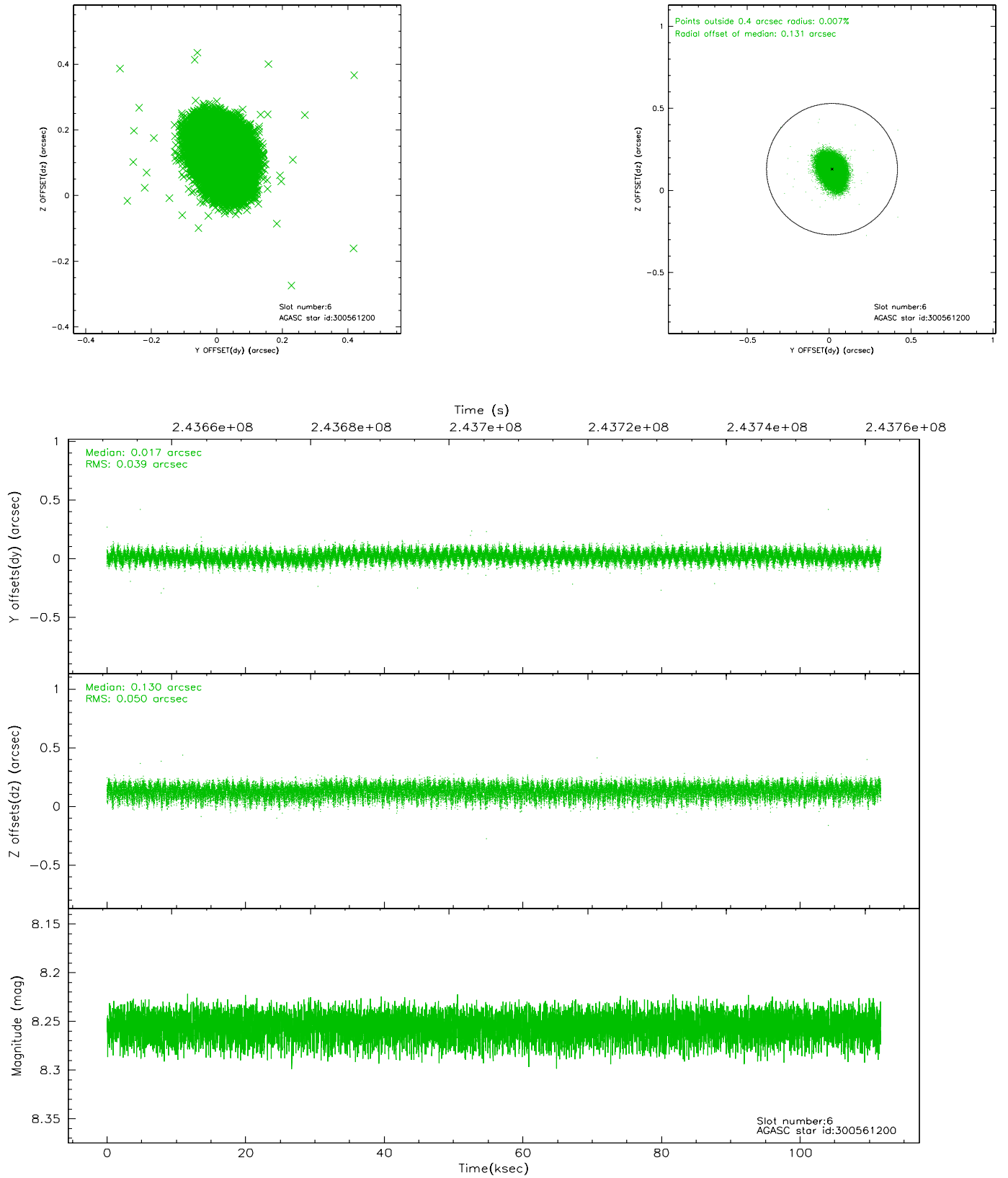
2.4.2 Slot 4



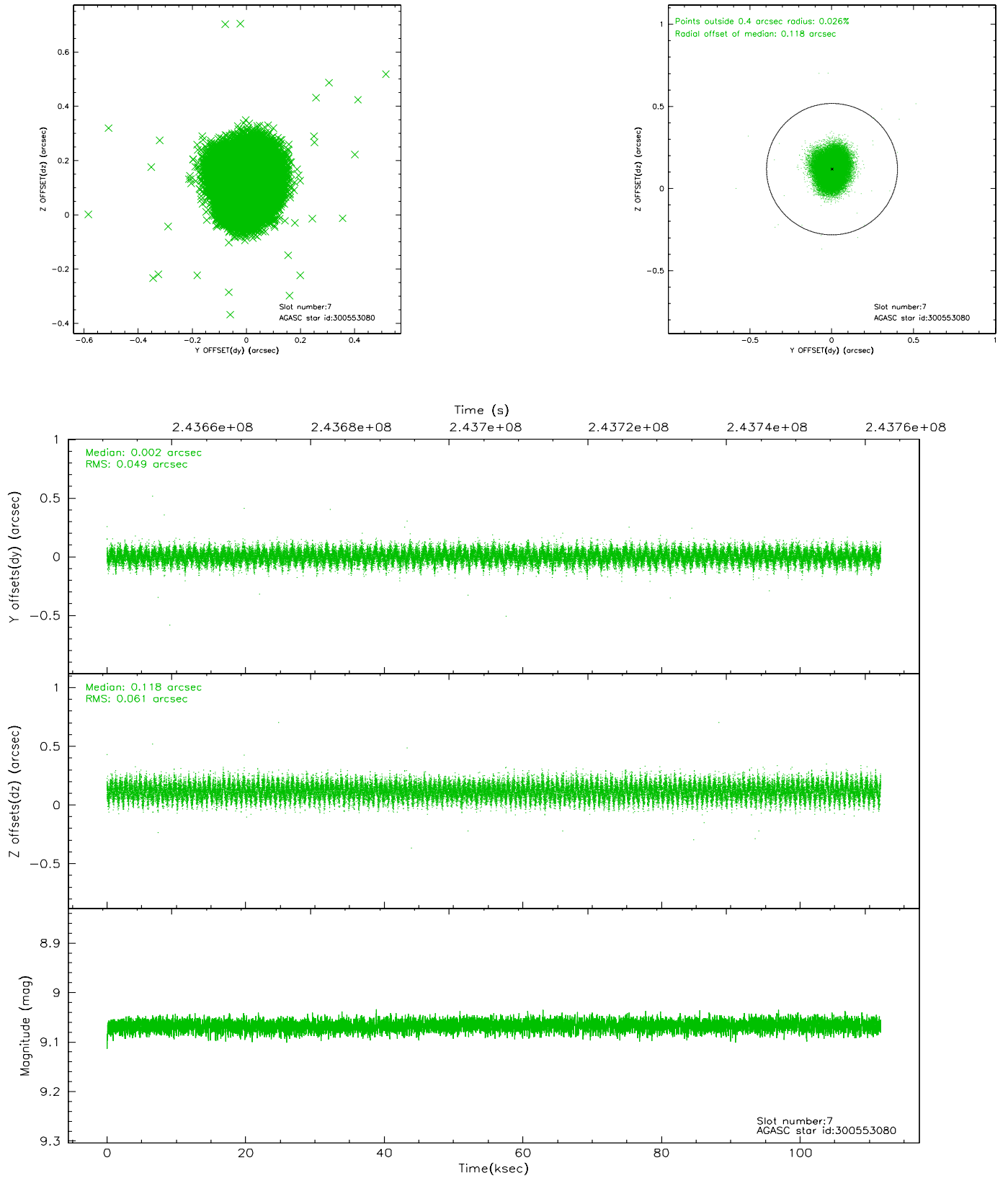
2.4.3 Slot 5



2.4.4 Slot 6

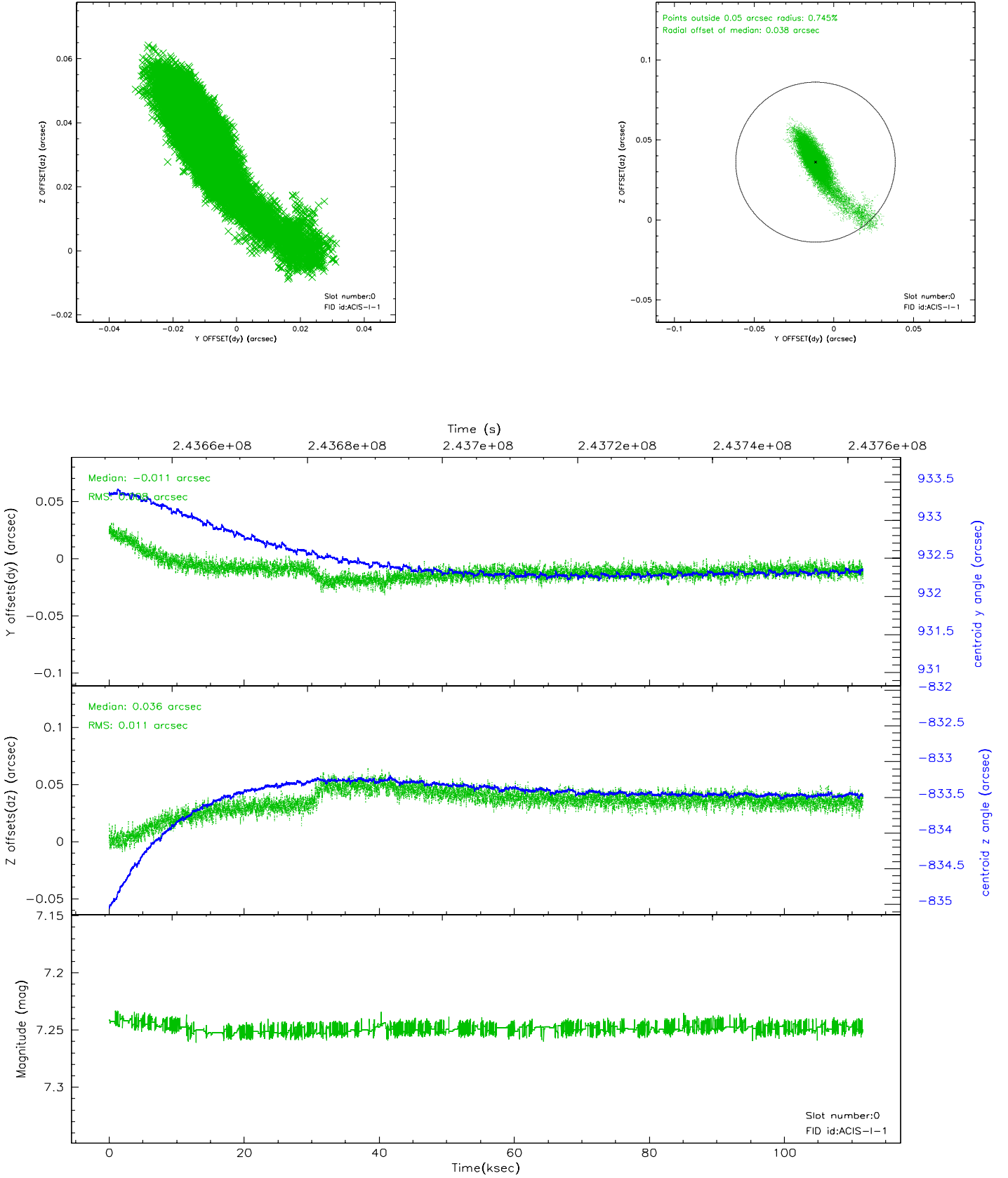


2.4.5 Slot 7

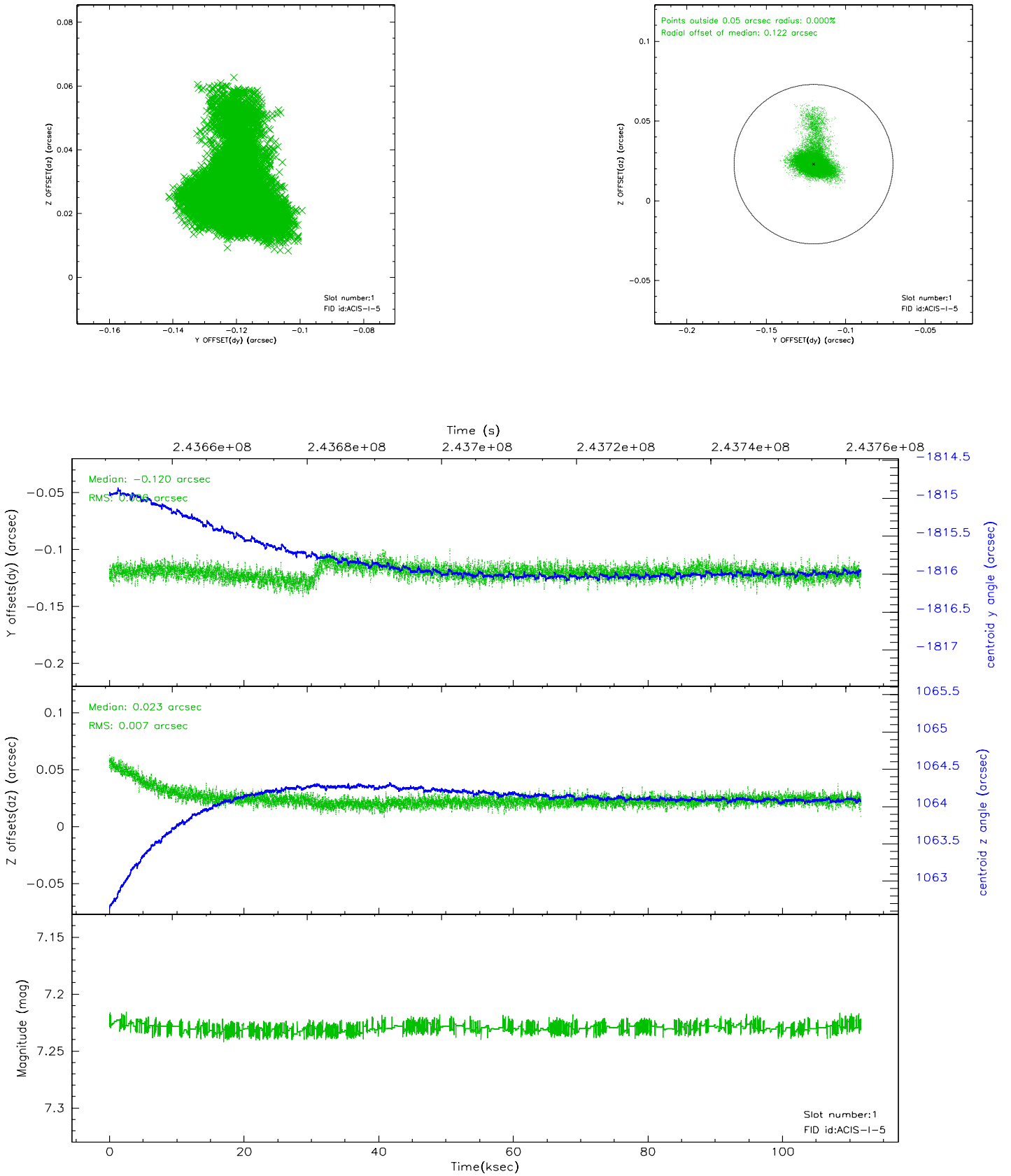


2.5 FID Slots

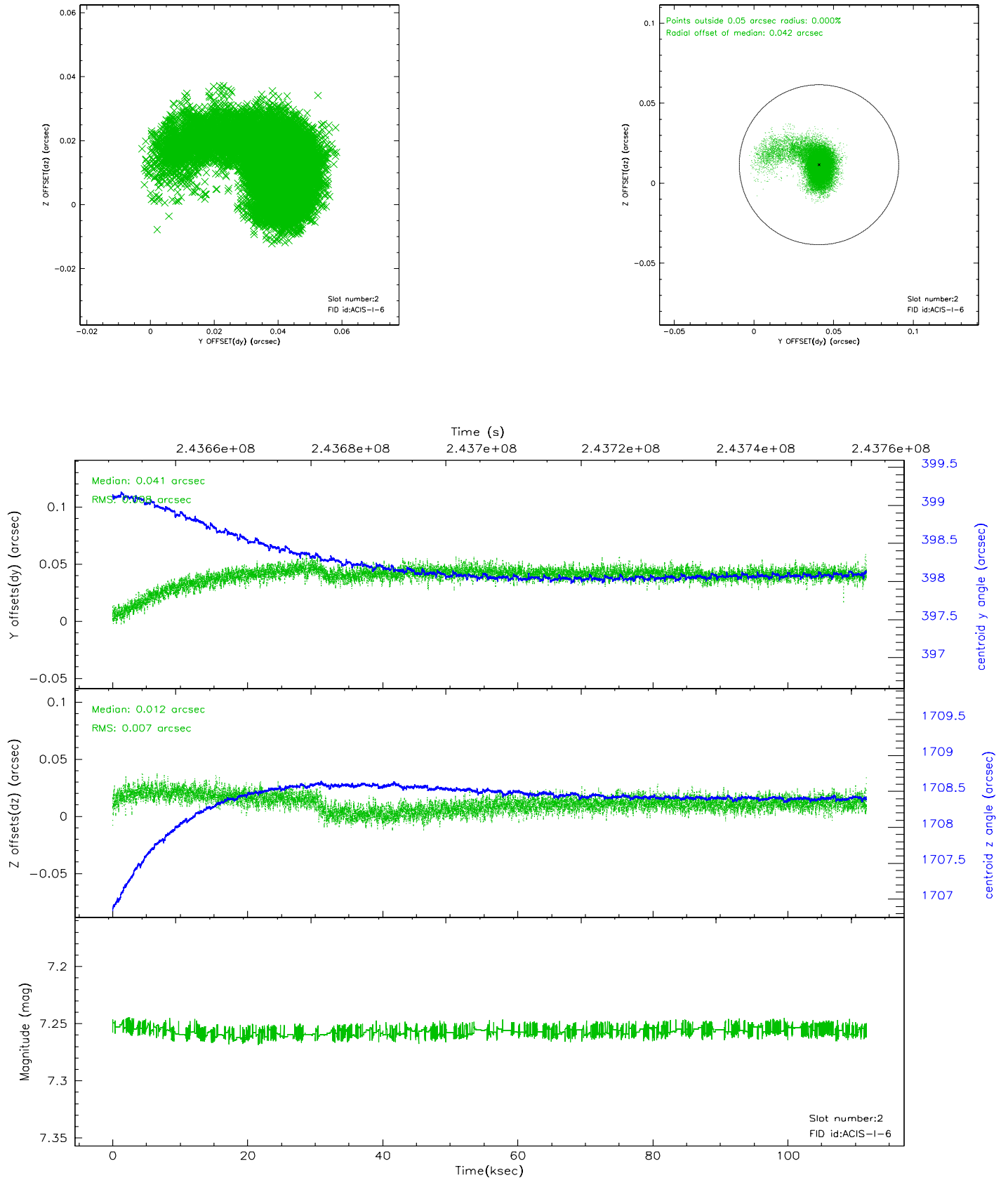
2.5.1 Slot 0



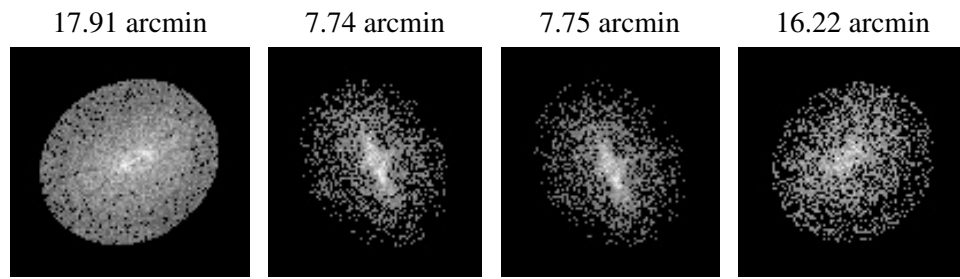
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	111.6478

A.2 Comments

Roll preference met.

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. GOs should subtract 1.3 degrees from the reported temperature to determine the true temperature. In addition the FP temperature was not regulating during this period. The FP temperature fluctuated between -121.3 C and -118.8 C during this time. For analysis of line-dominated spectra from the FI CCDs, GOs might notice a systematic gain shift by up to 0.5%, either towards higher/lower energies depending on if the FP temperature was colder/warmer than -119.7 C. Analysis of line-dominated spectra on S3 are mostly unaffected (where mostly unaffected means that the changes are smaller than the current uncertainties in the calibration). Analysis of continuum-dominated spectra on both the FI and BI CCDs are mostly unaffected. Imaging analysis on both the FI and BI CCDs are mostly unaffected.