

V&V Reference Report

L2 ASCDS Version : 7.6.7.1

Observation 5586 - L2 Version 002
Chandra X-Ray Center

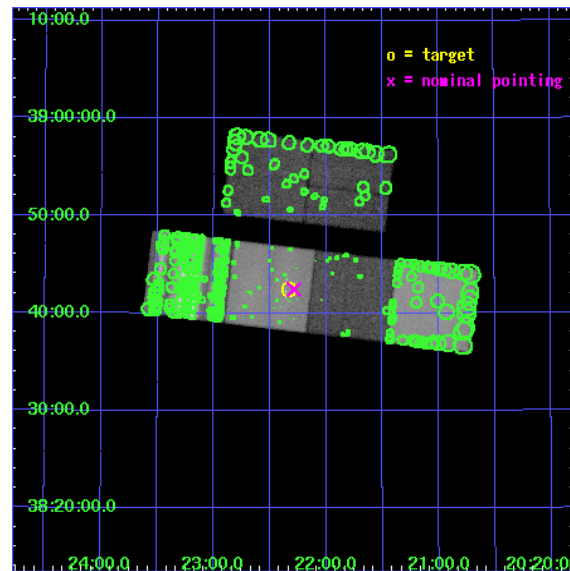
L2 Processing Date : Mar 16 2006

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1 Front

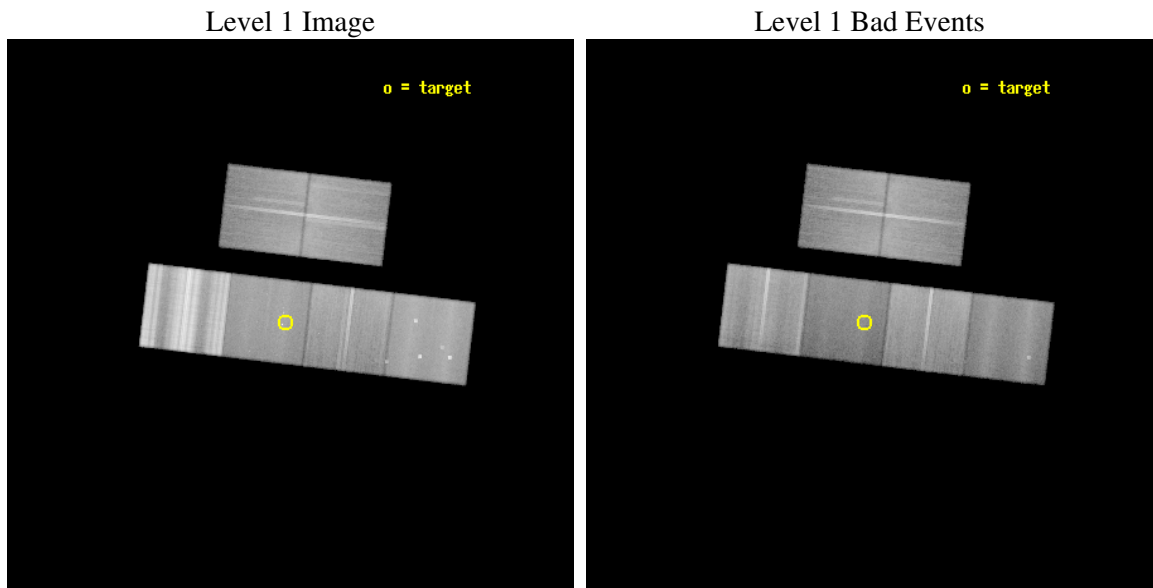
seq_num	500575
obs_id	5586
title	In Search of Vela-like Pulsars and their Wind Nebulae
observer	Zaven Arzoumanian
object	G76.9+1.0
dtcycle	0
cycle	P
ra_targ	305.584167
dec_targ	38.706917
ra_nom	305.57181724438
dec_nom	38.70748730704
roll_nom	186.71843148669
revision	2
ontime	54425.230825216
livetime	53736.065781567
ontime2	51041.64368242
ontime3	52282.940421373
ontime5	54425.230845124
ontime6	51774.105966598
ontime7	54425.230825216
ontime8	53300.609338522
l2events	980938



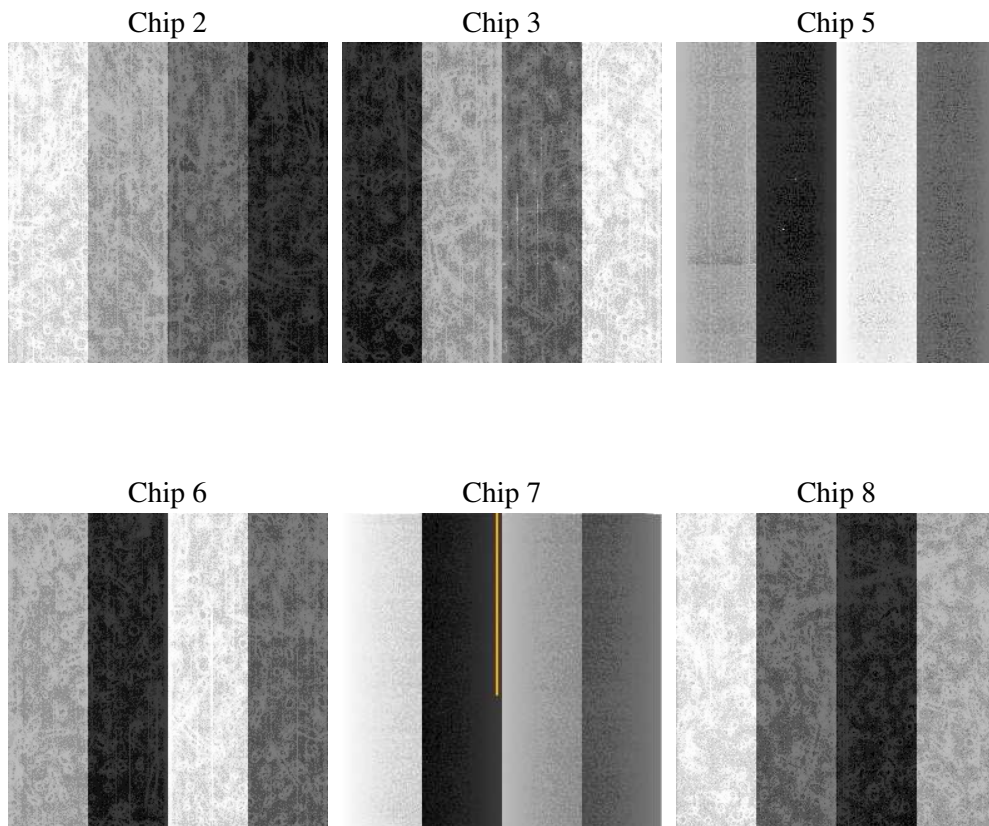
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1
ascdsver	7.6.7.1
caldbver	3.2.1
date	2006-03-16T02:25:02
revision	2

sched_exp_time	54500.000000
ontime	54429.50949204
ontime2	51045.922329366
ontime3	52287.219088197
ontime5	54429.509511948
ontime6	51778.384613544
ontime7	54429.50949204
ontime8	53304.888005346
l1events	3671240

2.1.4 Events

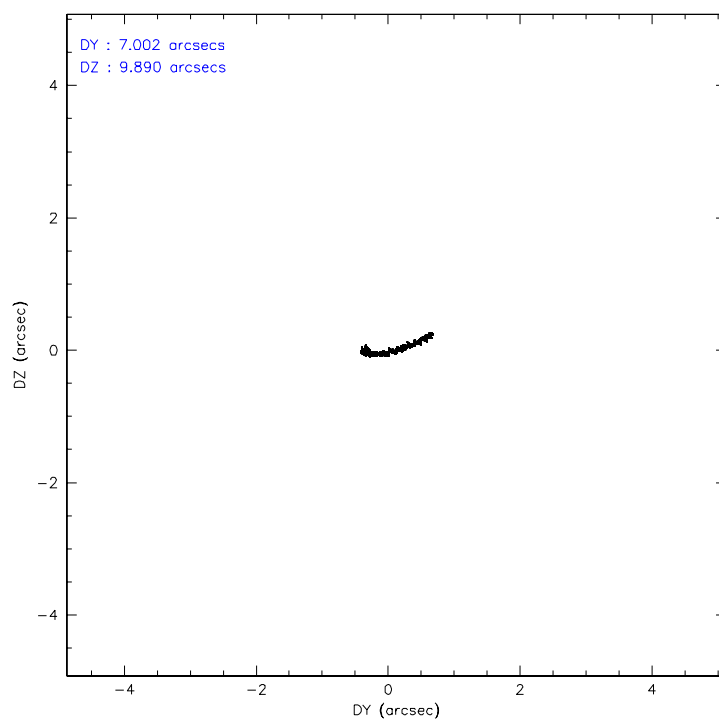
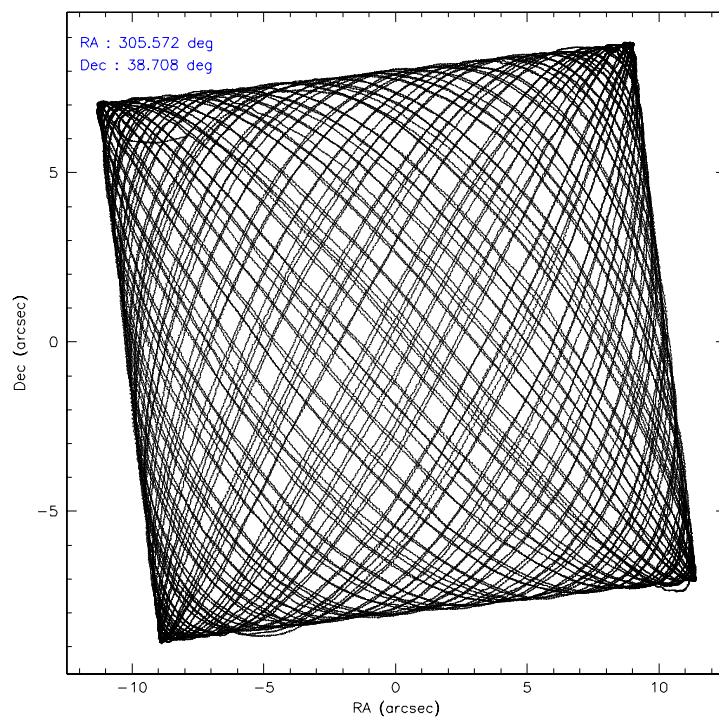
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	505918	440383	565504	494616	451482	1213337
rejected events	441948	397149	289606	433809	238305	468689
rejected %	87%	90%	51%	87%	52%	38%

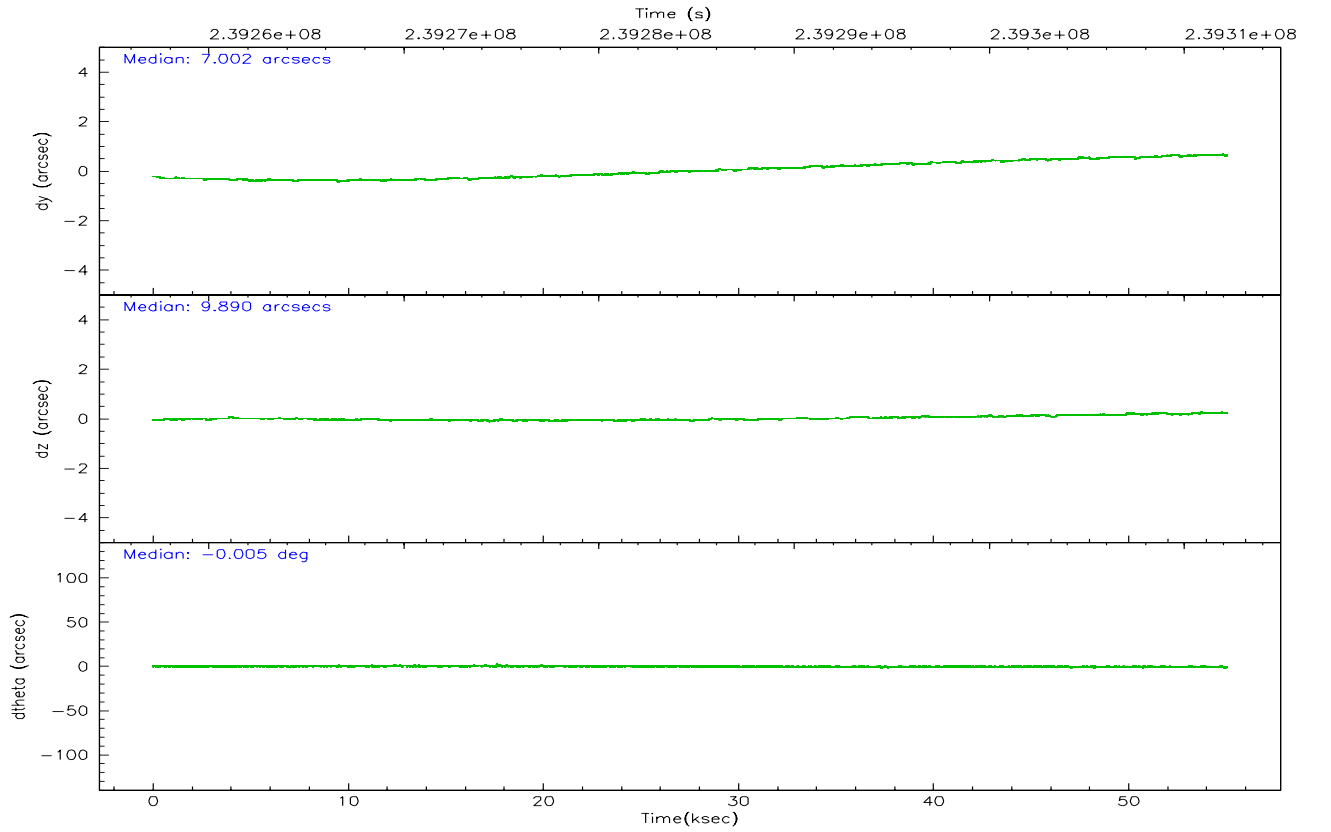
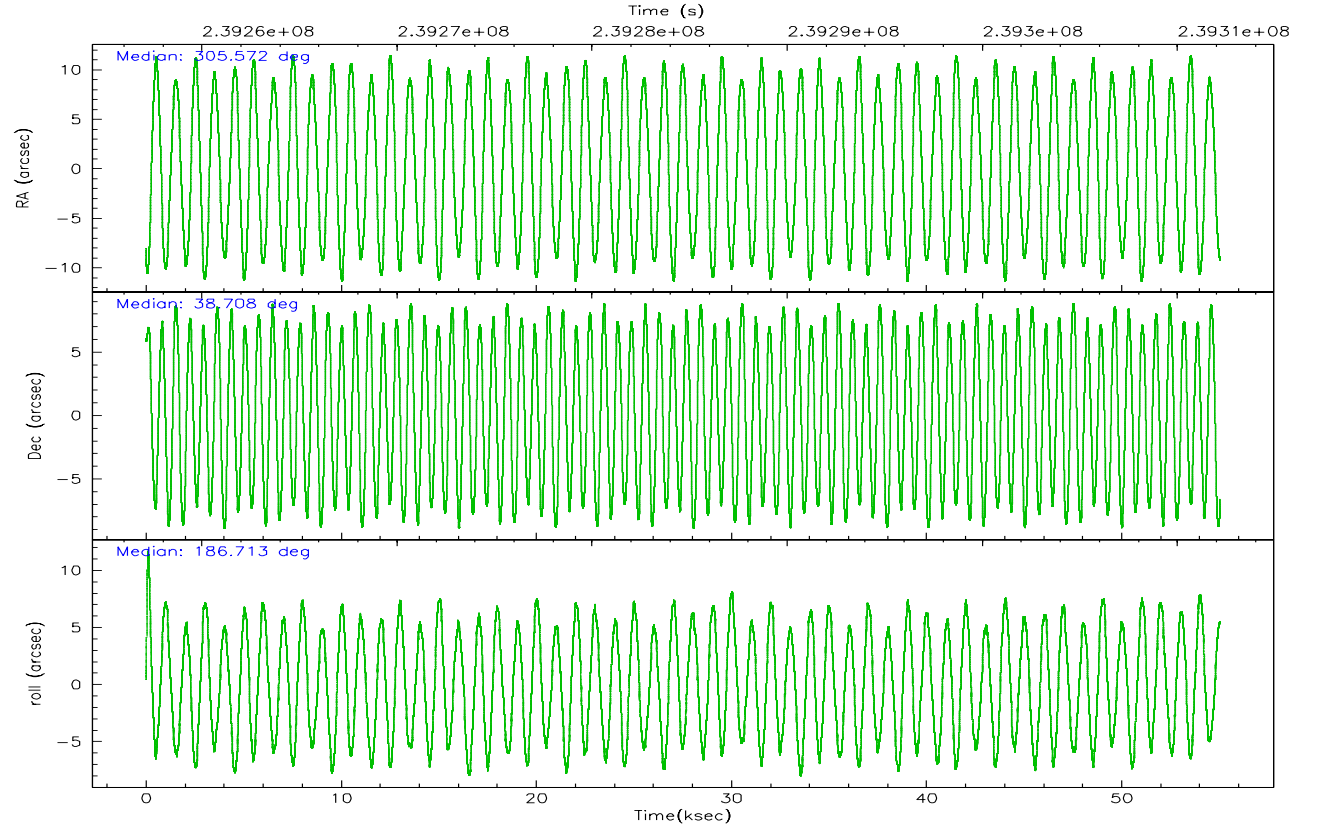
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	30268	19325	21469	29271	14168	259689
	5%	4%	3%	5%	3%	21%
grade 1 events	386	213	1579	297	197	2289
	0%	0%	0%	0%	0%	0%
grade 2 events	16127	9023	88691	14557	55881	95127
	3%	2%	15%	2%	12%	7%
grade 3 events	3662	3981	11754	4295	13732	135139
	0%	0%	2%	0%	3%	11%
grade 4 events	6092	3876	11504	4150	13334	118922
	1%	0%	2%	0%	2%	9%
grade 5 events	10675	12616	26407	12641	29919	27150
	2%	2%	4%	2%	6%	2%
grade 6 events	7825	7032	142498	8536	116071	135773
	1%	1%	25%	1%	25%	11%
grade 7 events	430883	384317	261602	420869	208180	439248
	85%	87%	46%	85%	46%	36%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	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	305.599492	305.5718172443849	Alternating exposures requested	N	N
Pointing Dec	38.724063	38.70748730703989	Primary exposure time	0.000000	3.2
Pointing Roll	186.544492	186.7184314866877			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	239257684.184000	239256536.43272			
Observation start date	2005-08-01T04:27:00	2005-08-01T04:08:56			
Observation end time	239312184.184000	239313253.27281			
Observation end date	2005-08-01T19:35:20	2005-08-01T19:54:13			
Read mode	TIMED	TIMED			

2.3 Aspect



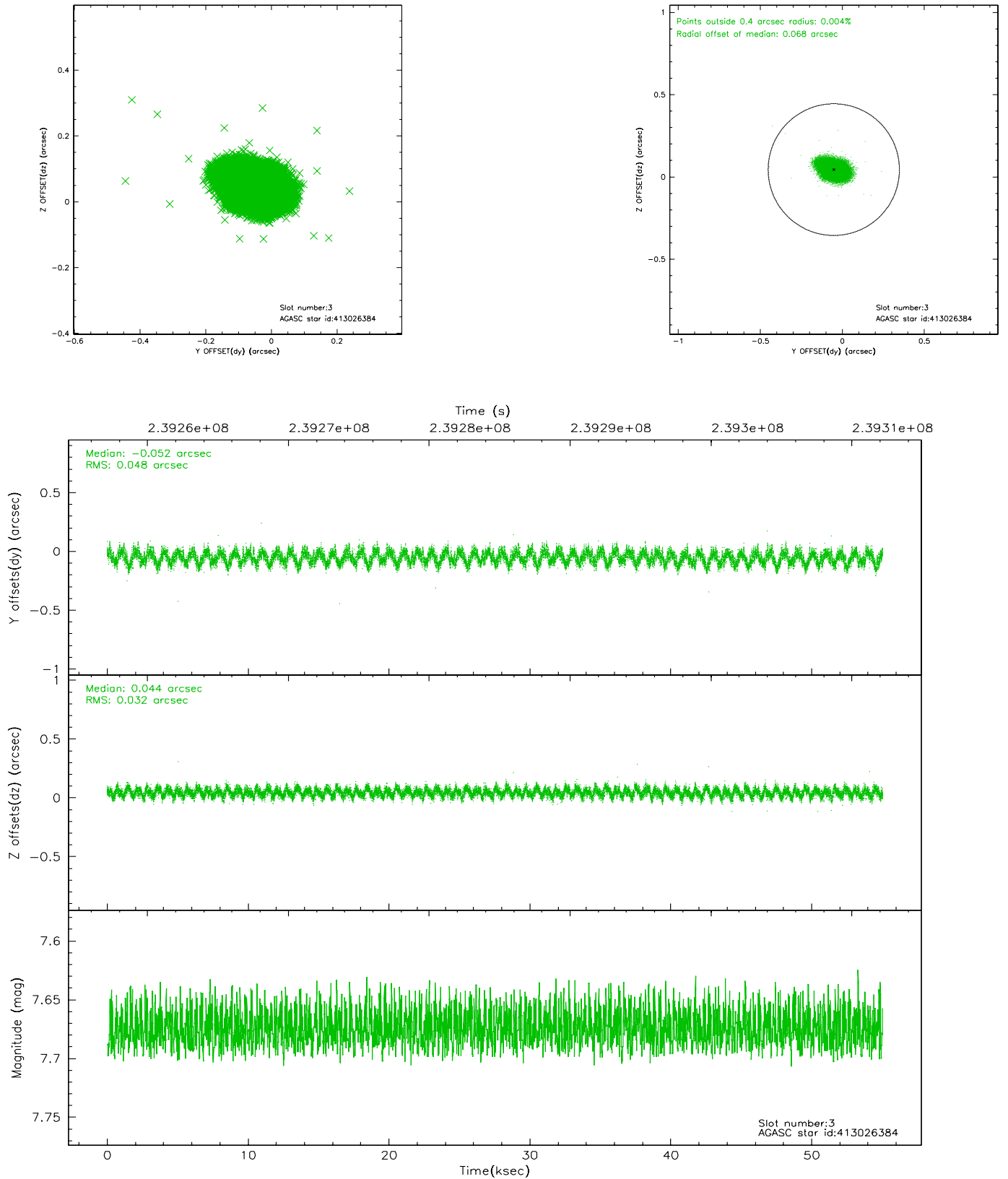


Slot Statistics

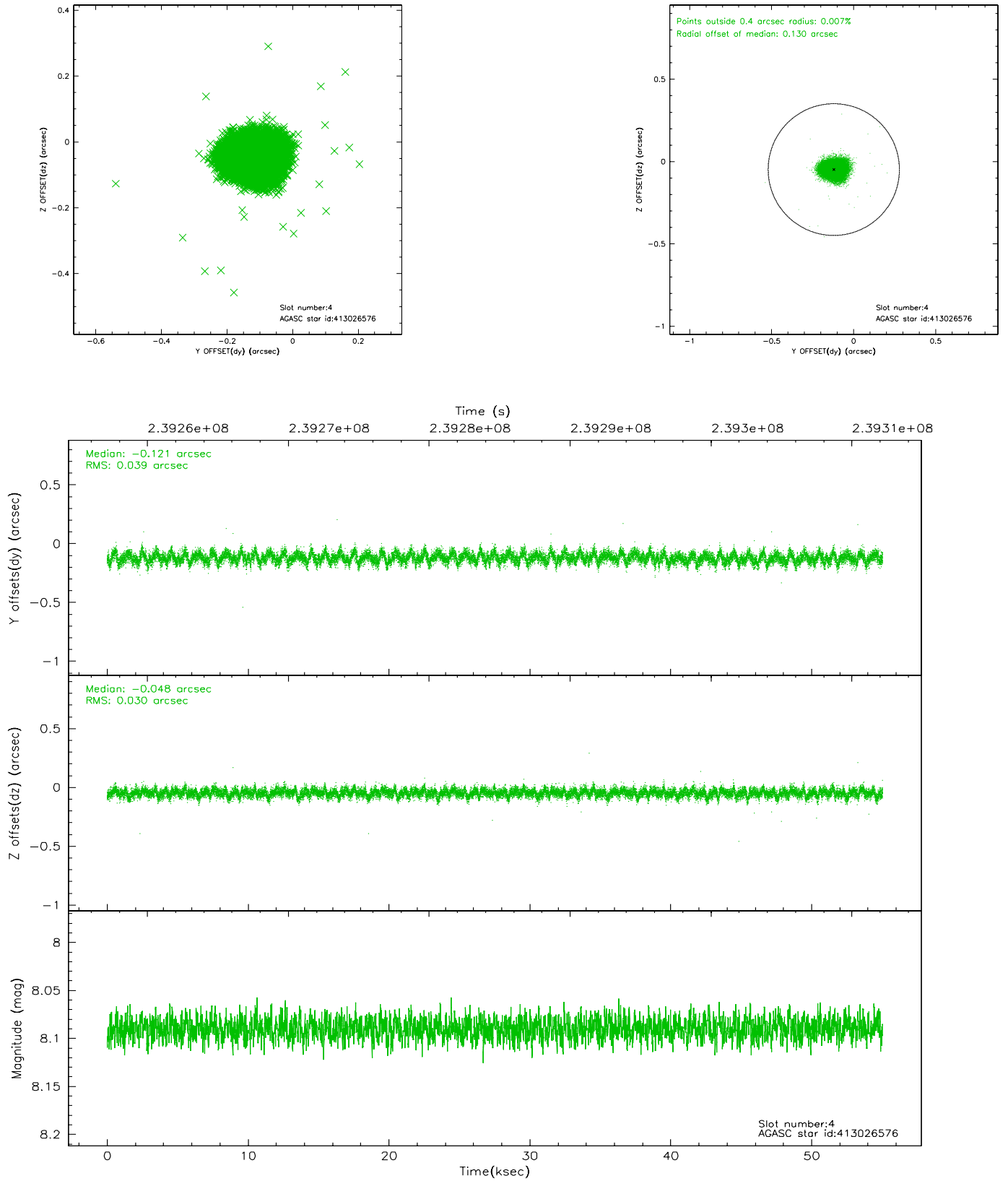
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	13425	-0.048	-0.010	0.013	0.022	0.000000	0.000000	-759.81	-1731.19
1	FID	ACIS-S-4	7.21	13428	0.067	0.026	0.009	0.020	0.000000	0.000000	2153.55	177.42
2	FID	ACIS-S-5	7.23	13427	-0.049	-0.008	0.010	0.016	0.000000	0.000000	-1812.73	170.94
3	GUIDE	413026384	7.67	26850	-0.052	0.044	0.062	0.099	304.954926	38.342718	1963.92	1150.43
4	GUIDE	413026576	8.09	26852	-0.121	-0.048	0.052	0.086	304.821636	38.430556	2298.81	790.77
5	GUIDE	413139272	8.01	26856	0.068	0.028	0.067	0.106	305.281414	39.031576	757.90	-1202.56
6	GUIDE	413143528	8.45	26852	0.107	0.162	0.054	0.086	306.110080	38.816395	-1460.89	-171.00
7	GUIDE	413149952	8.16	26850	-0.003	-0.182	0.064	0.101	305.648206	38.129365	106.96	2142.53

2.4 Star Slots

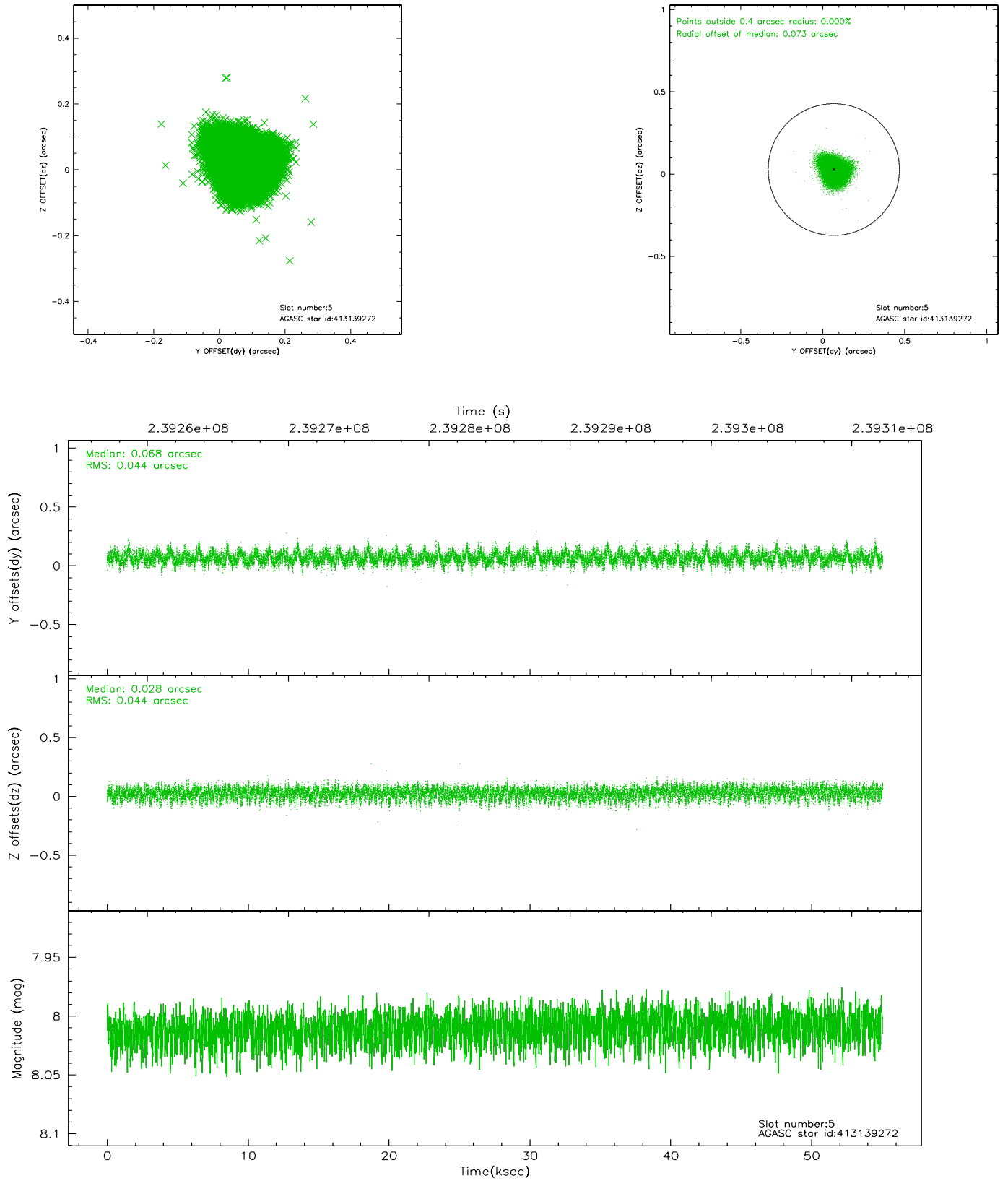
2.4.1 Slot 3



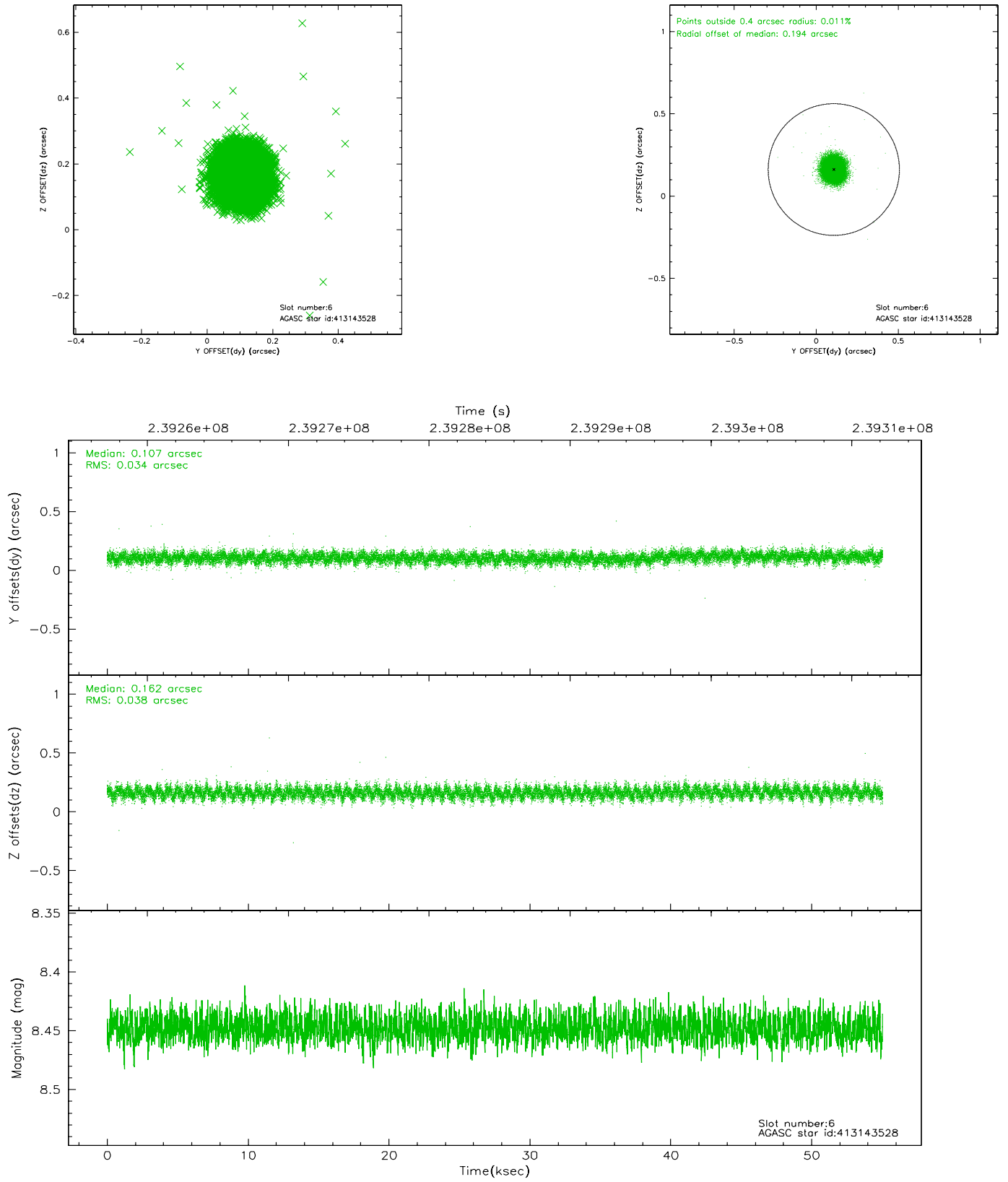
2.4.2 Slot 4



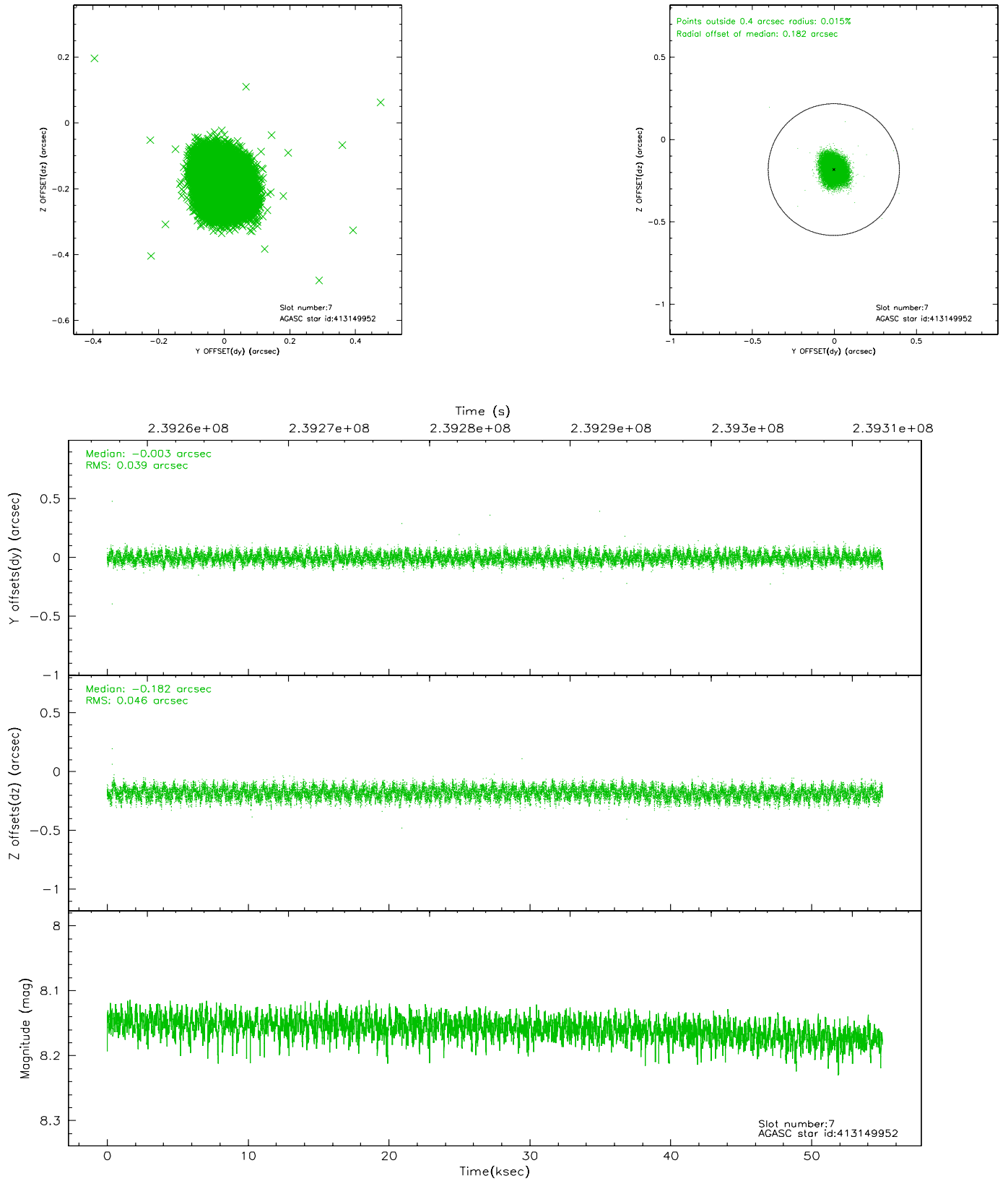
2.4.3 Slot 5



2.4.4 Slot 6

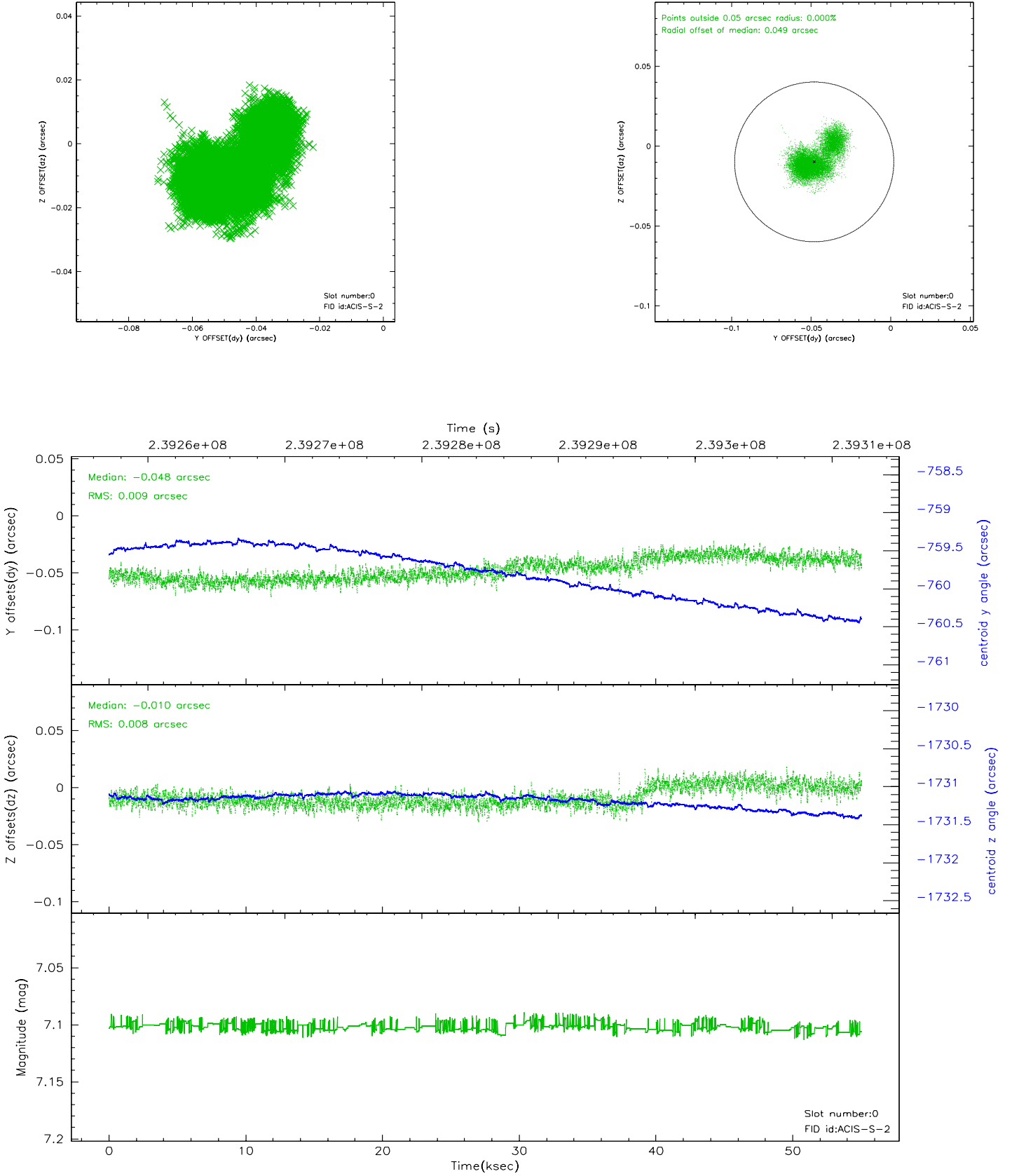


2.4.5 Slot 7

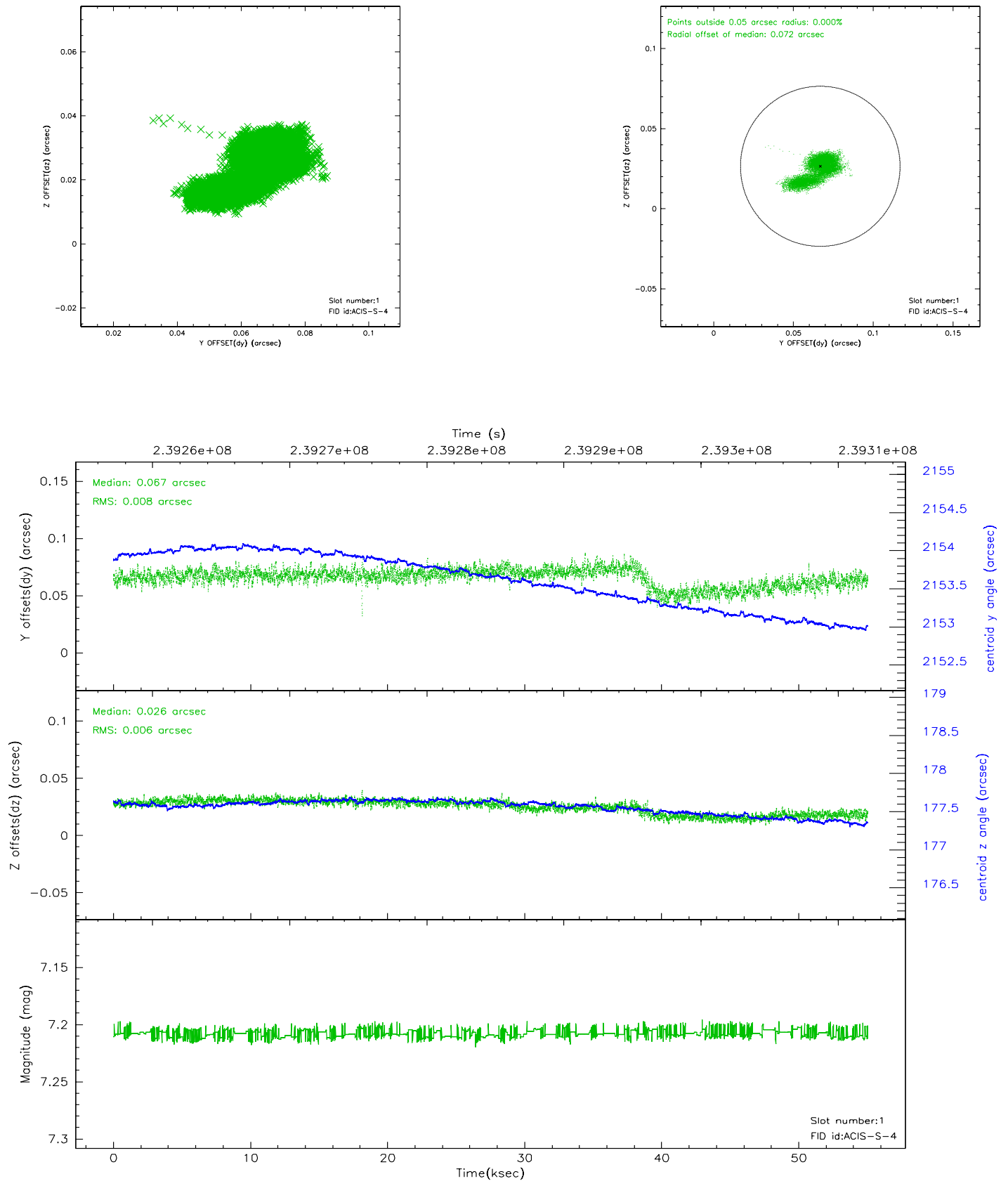


2.5 FID Slots

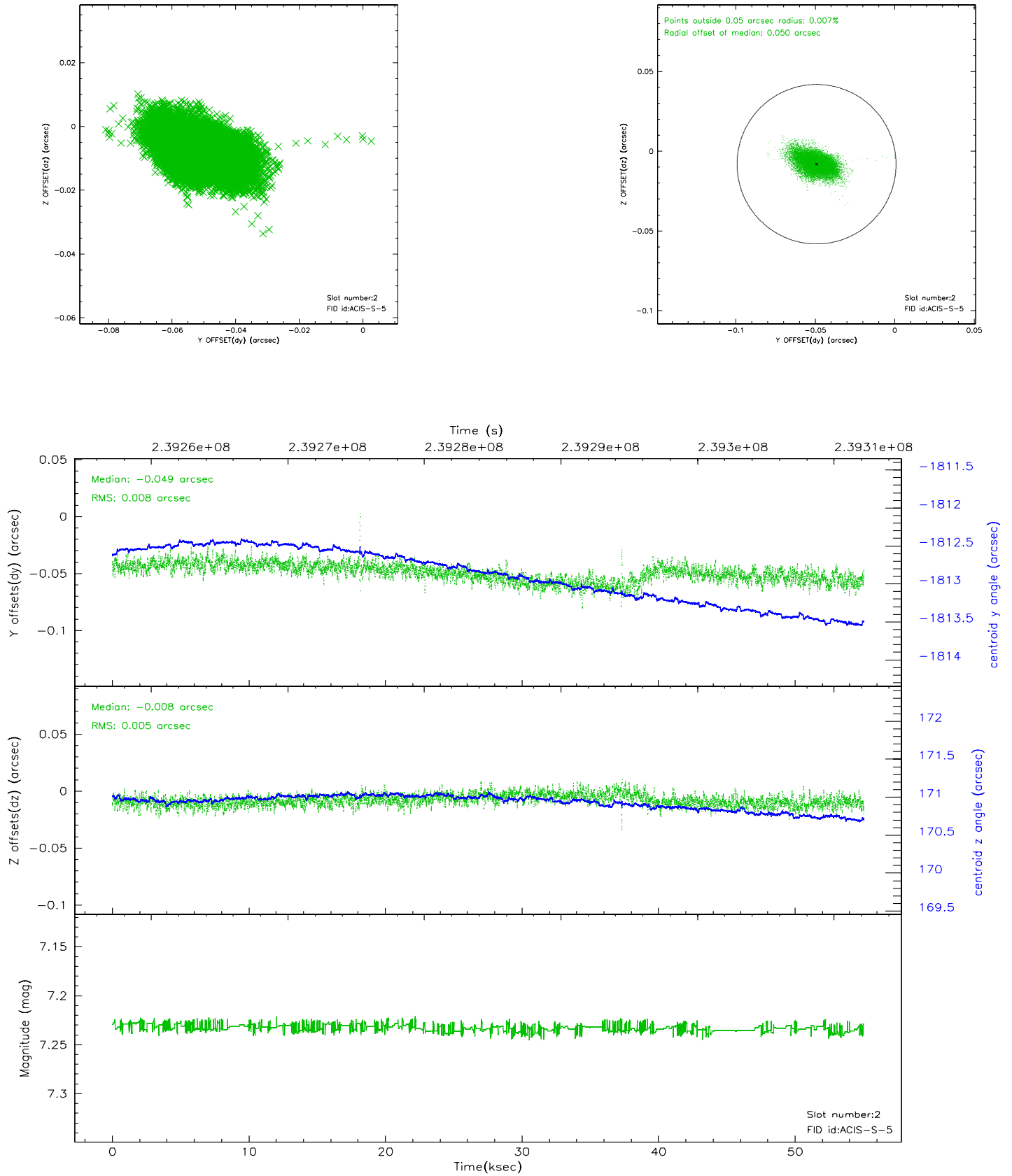
2.5.1 Slot 0



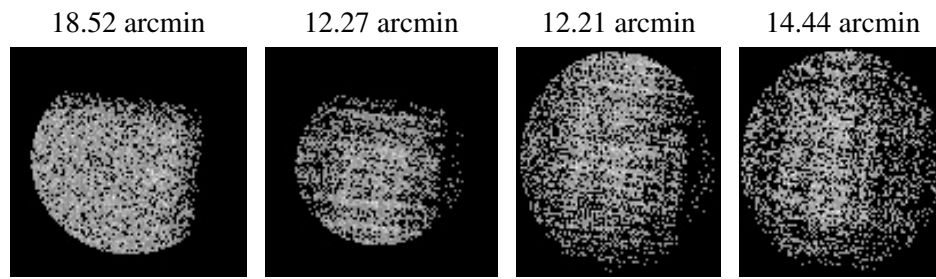
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.03.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	54.42523

A.2 Comments

This observation was taken during a high radiation environment. Chip S4 of this observation has a very high background due to the radiation. In this case the events due to radiation on chip S4 were not completely removed in the Level 2 processing. I note spikes in the count rates at about 31 ksec and 35 ksec into the observation. The outer portion of the supernova remnant directly east of the pulsar falls on S4. The science goals of this proposal do not include analysis of the supernova shell or outer shocks, so the radiation issues do not affect the science quality of the data. While the front illuminated chips have several intervals of non-Good-Time, the back illuminated chips, including the target, have nearly complete Good Time coverage.

The ACIS focal plane temperature is above calibration limits for the first 30ksec of of the observation.