

V&V Reference Report

L2 ASCDS Version : 7.6.11.6

Observation 4175 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Jun 17 2008

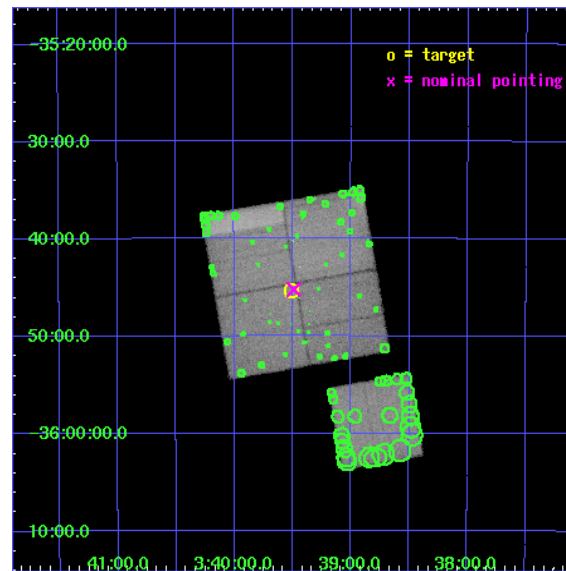
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1 Front

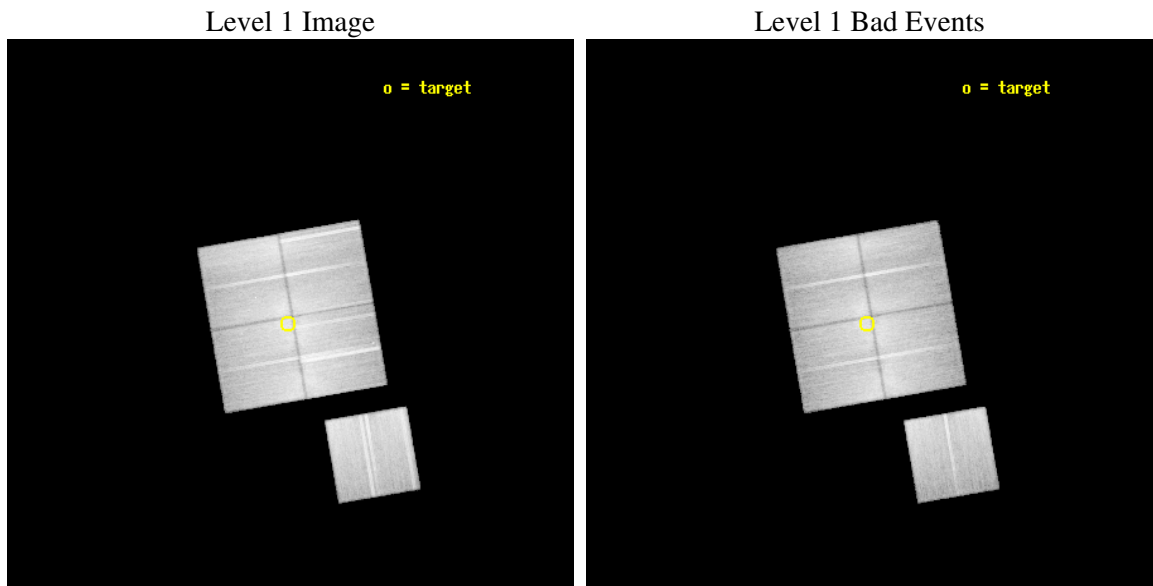
seq_num	800331
obs_id	4175
title	SURVEYING THE FORNAX CLUSTER OF GALAXIES
observer	Dr Caleb Scharf
object	FORNAX CLUSTER
dtcycle	0
cycle	P
ra_targ	54.87713
dec_targ	-35.75612
ra_nom	54.872341461778
dec_nom	-35.753618926709
roll_nom	170.20588691013
revision	4
ontime	63728.828662992
livetime	62896.164600028
ontime0	69995.067358822
ontime1	66803.84352228
ontime2	62544.677415252
ontime3	63728.828662992
ontime6	62981.273204207
l2events	386997



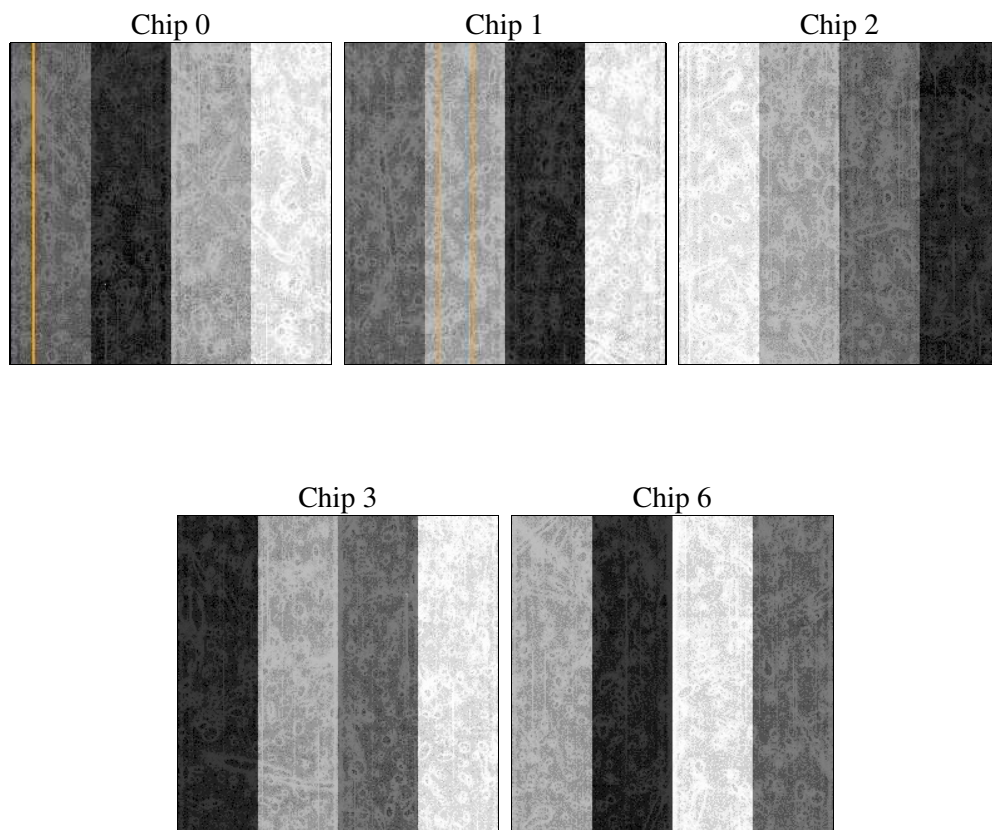
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8.1
caldbver	3.2.3
date	2006-08-18T00:24:14
revision	2

sched_exp_time	46165.487000
ontime	26643.569744349
ontime0	32916.090320885
ontime1	29718.58458373
ontime2	25459.418456763
ontime3	26643.569744349
ontime6	25896.014215827
l1events	2269565

2.1.4 Events

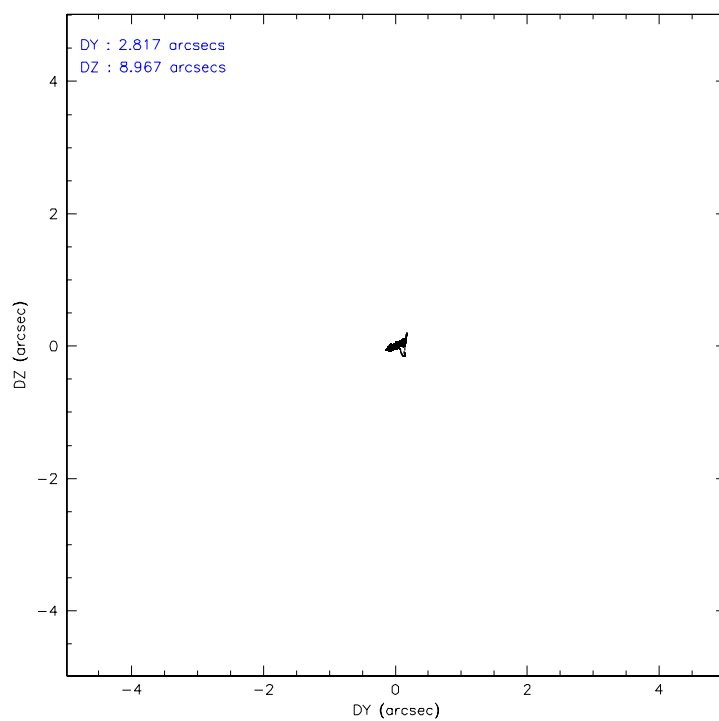
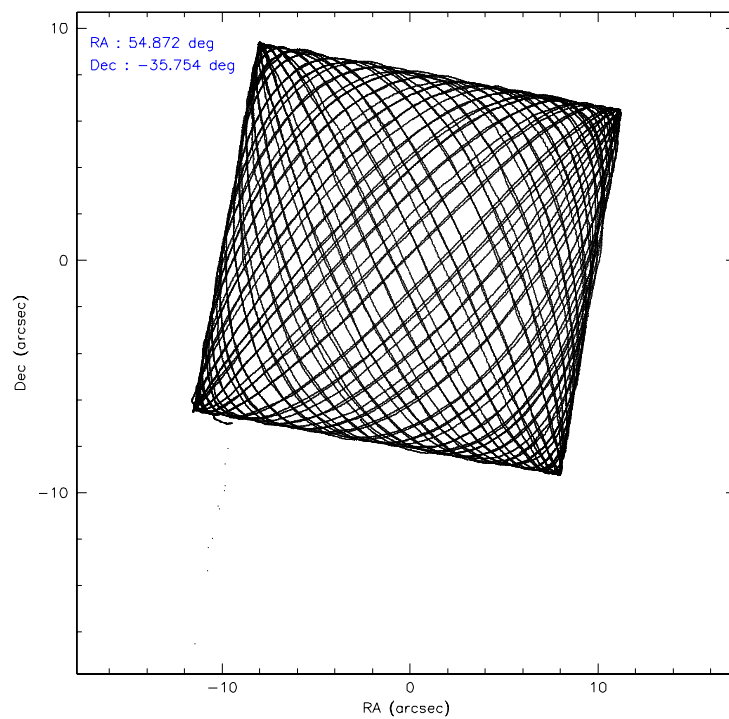
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	445624	446786	482473	429159	465523
rejected events	341938	359690	391034	379322	380092
rejected %	76%	80%	81%	88%	81%

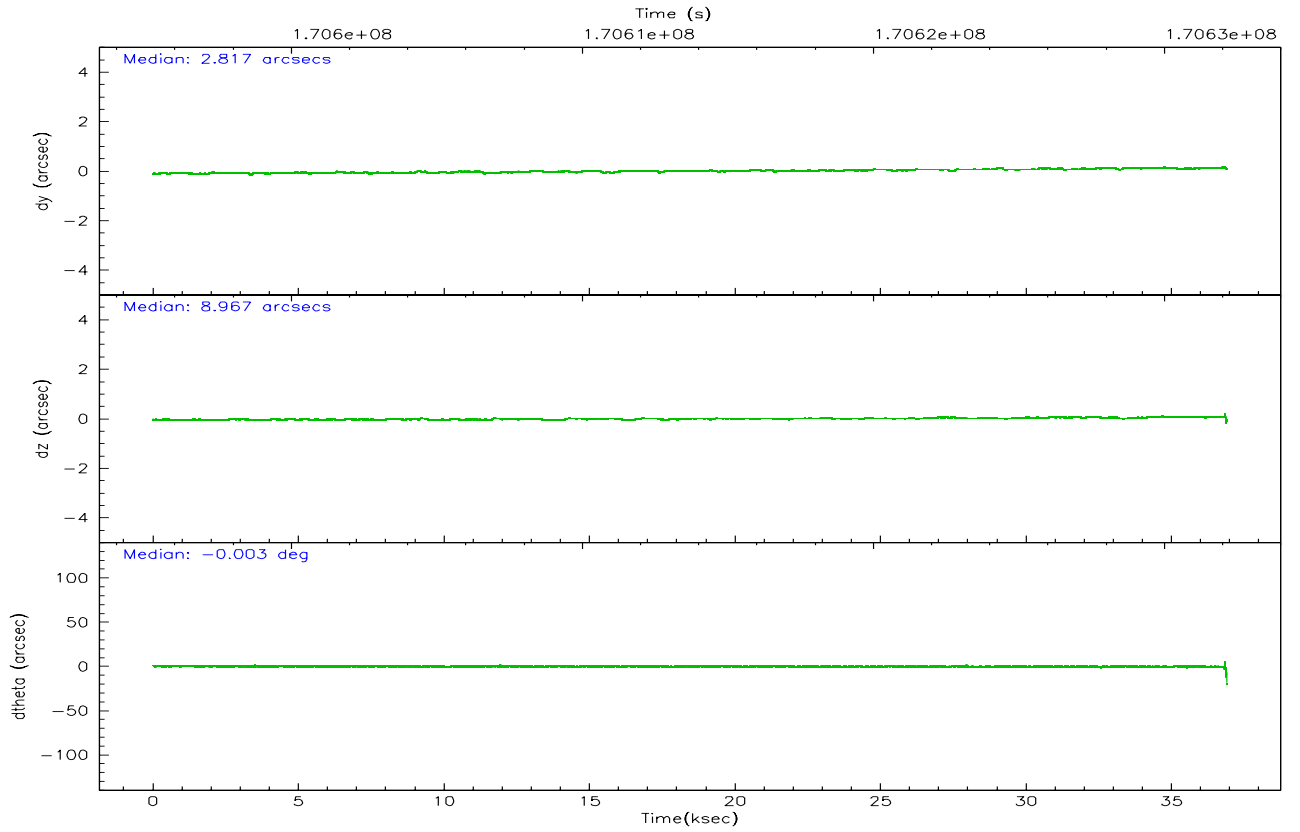
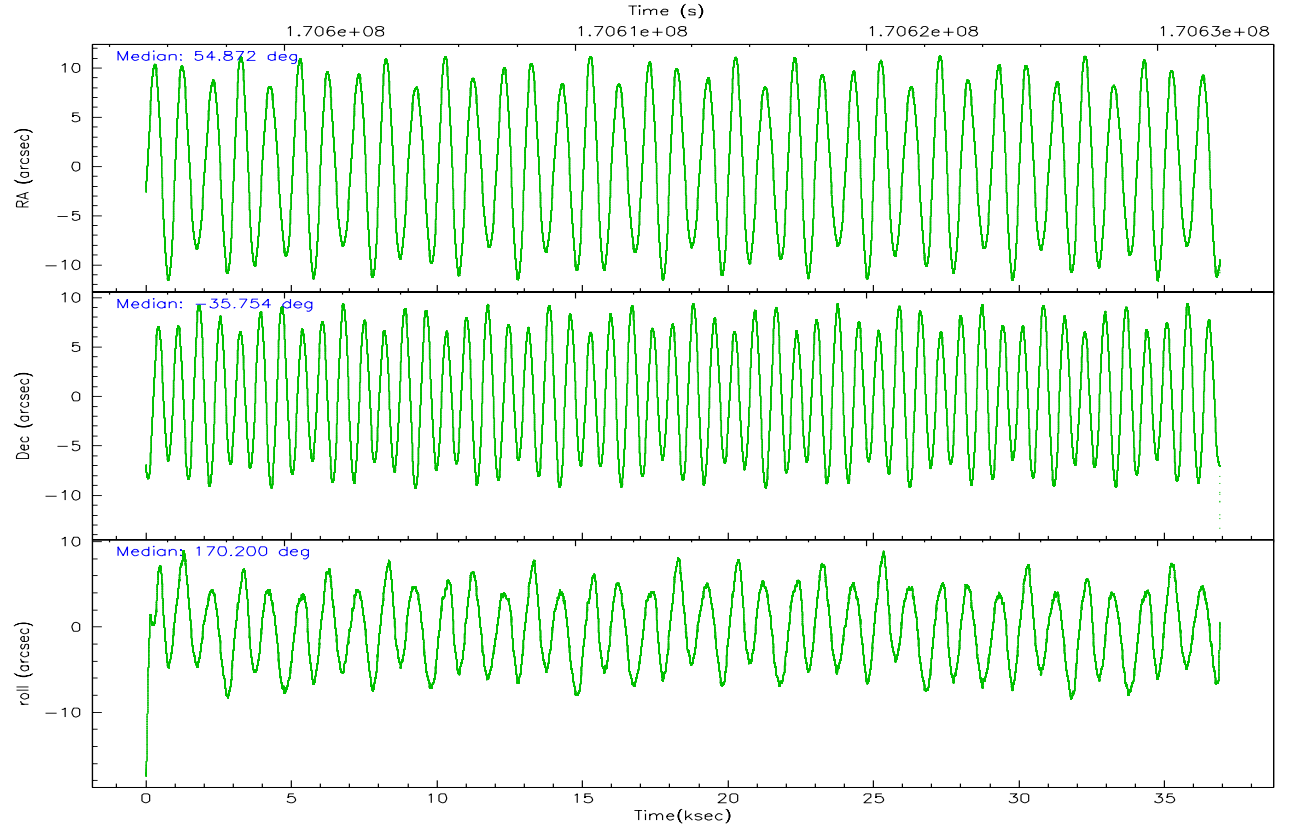
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	64650	49342	54154	31803	57274
	14%	11%	11%	7%	12%
grade 1 events	661	363	646	278	516
	0%	0%	0%	0%	0%
grade 2 events	27986	21452	23093	9763	19244
	6%	4%	4%	2%	4%
grade 3 events	3323	3878	2330	2483	2597
	0%	0%	0%	0%	0%
grade 4 events	3224	3180	6711	2485	2626
	0%	0%	1%	0%	0%
grade 5 events	6139	5798	5029	5206	5276
	1%	1%	1%	1%	1%
grade 6 events	4720	9297	5287	3389	3908
	1%	2%	1%	0%	0%
grade 7 events	334921	353476	385223	373752	374082
	75%	79%	79%	87%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	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	54.903942	54.87234146177786	Alternating exposures requested	N	N
Pointing Dec	-35.744047	-35.75361892670922	Primary exposure time	0.000000	3.1
Pointing Roll	170.015666	170.2058869101317			
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	170595439.184000	170595062.88254			
Observation start date	2003-05-29T11:36:15	2003-05-29T11:31:02			
Observation end time	170641604.184000	170632178.64661			
Observation end date	2003-05-30T00:25:40	2003-05-29T21:49:38			
Read mode	TIMED	TIMED			

2.3 Aspect



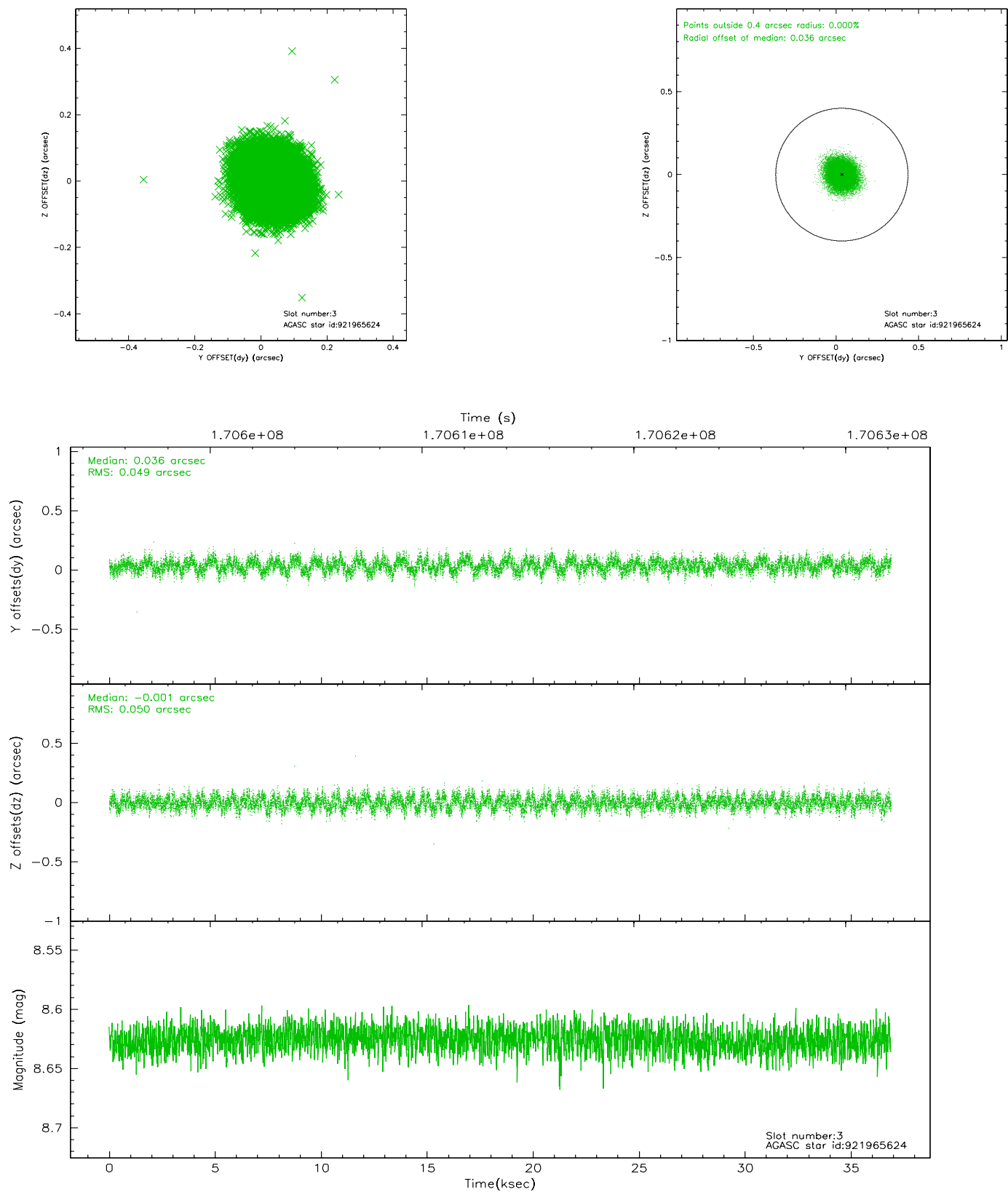


Slot Statistics

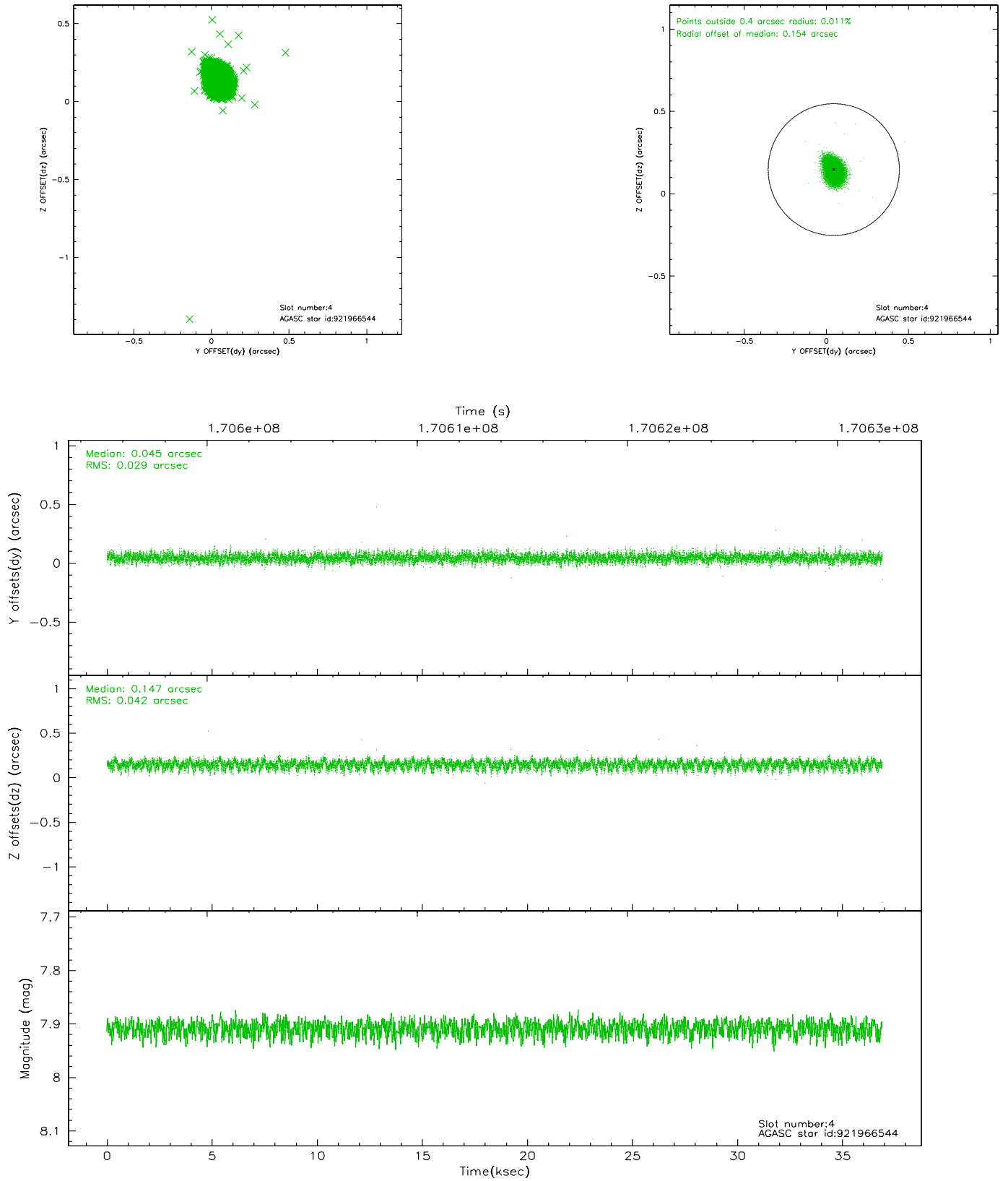
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	8990	-0.033	0.070	0.006	0.010	0.000000	0.000000	936.95	-832.34
1	FID	ACIS-I-5	7.24	8996	-0.062	0.023	0.006	0.010	0.000000	0.000000	-1811.19	1065.06
2	FID	ACIS-I-6	7.25	8989	0.004	-0.023	0.007	0.011	0.000000	0.000000	402.47	1709.57
3	GUIDE	921965624	8.63	17989	0.036	-0.001	0.075	0.118	54.900706	-35.940077	-112.94	696.67
4	GUIDE	921966544	7.91	17993	0.045	0.147	0.052	0.087	54.743508	-35.636012	530.02	-300.87
5	GUIDE	921967072	7.67	17994	-0.041	-0.123	0.068	0.103	54.269247	-36.292226	1470.56	2268.84
6	GUIDE	921970016	9.40	17977	-0.040	0.047	0.079	0.129	54.228536	-36.081558	1722.87	1544.23
7	GUIDE	921970112	9.59	17945	0.002	-0.070	0.082	0.134	54.291262	-35.695592	1793.64	144.51

2.4 Star Slots

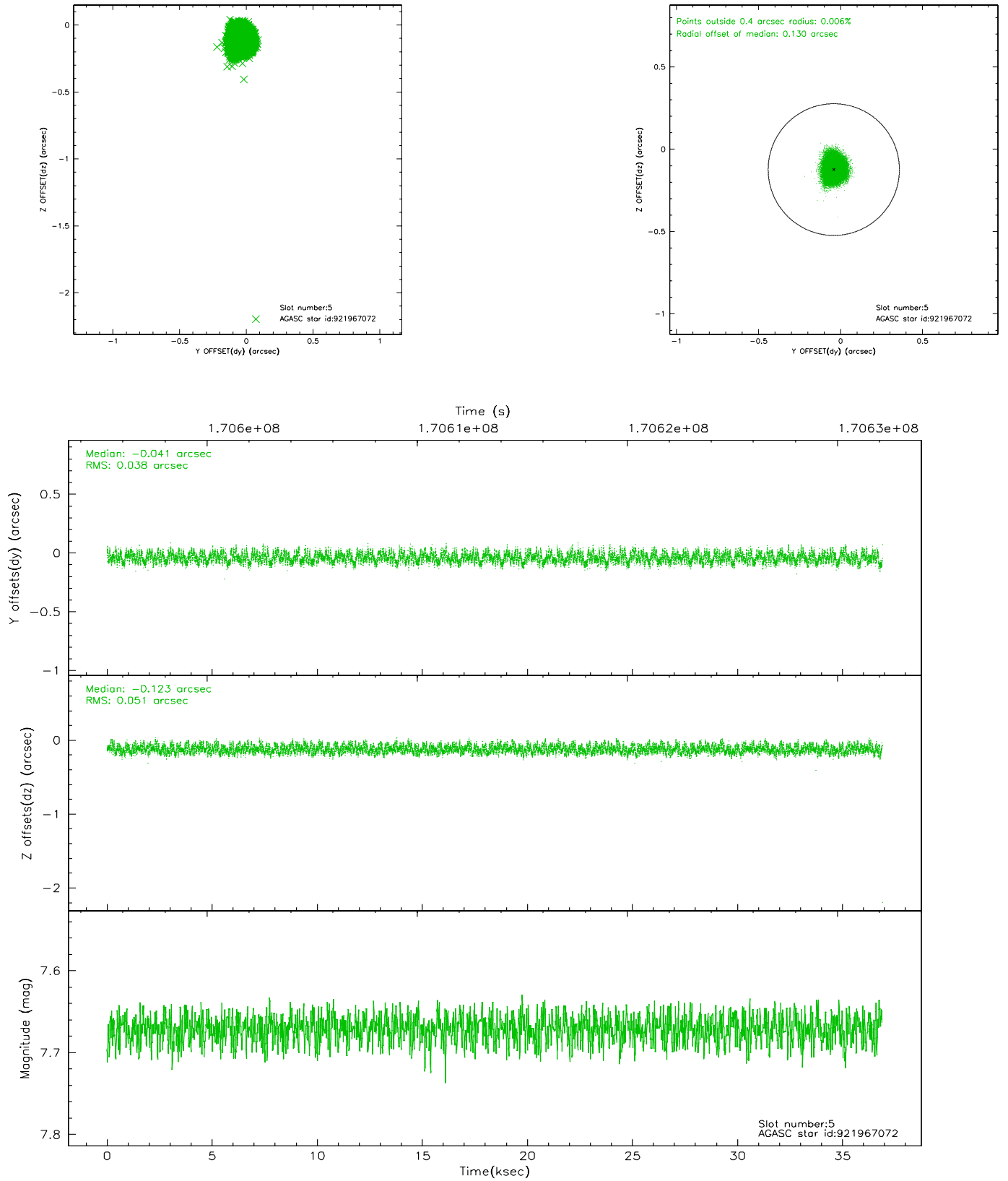
2.4.1 Slot 3



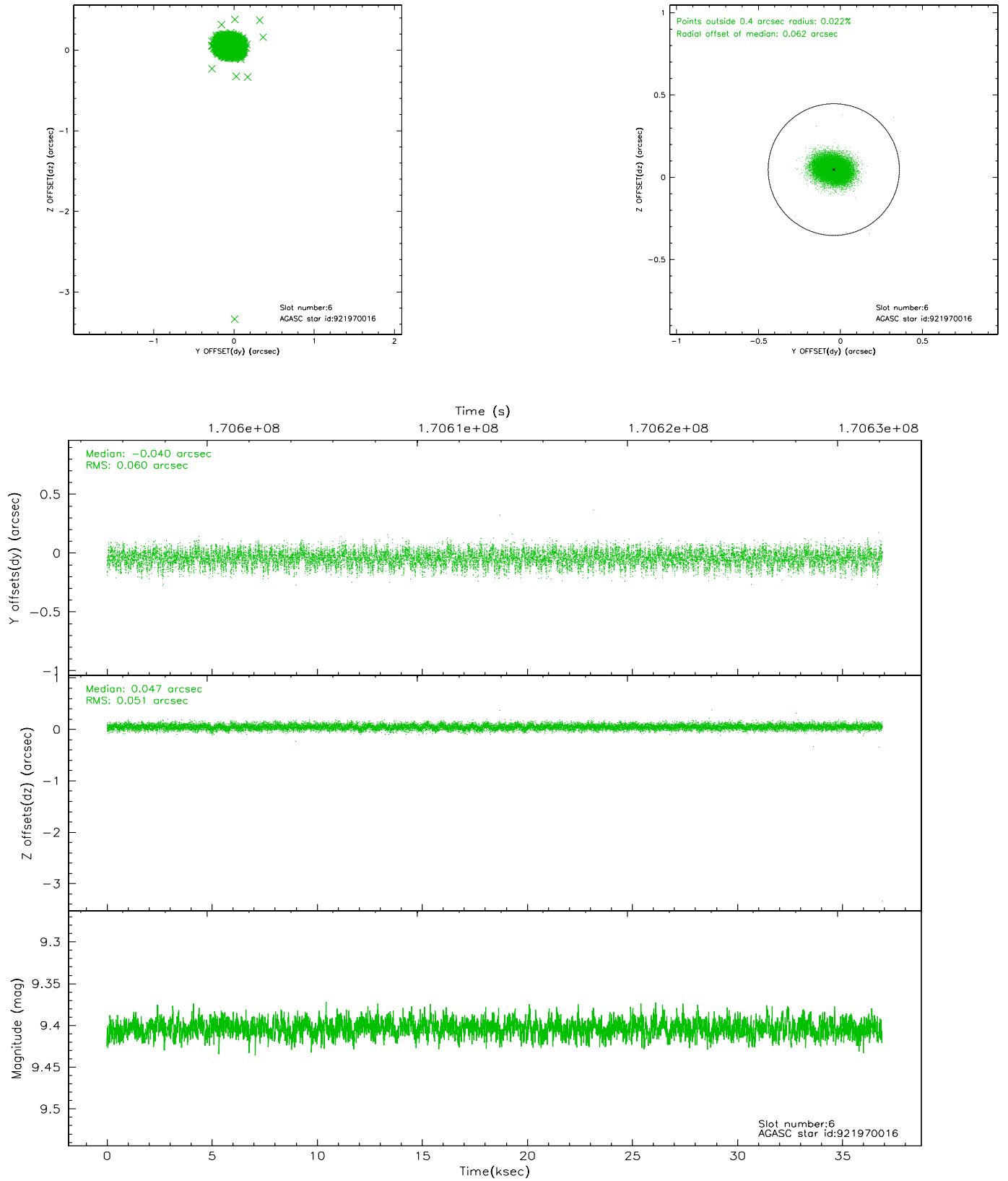
2.4.2 Slot 4



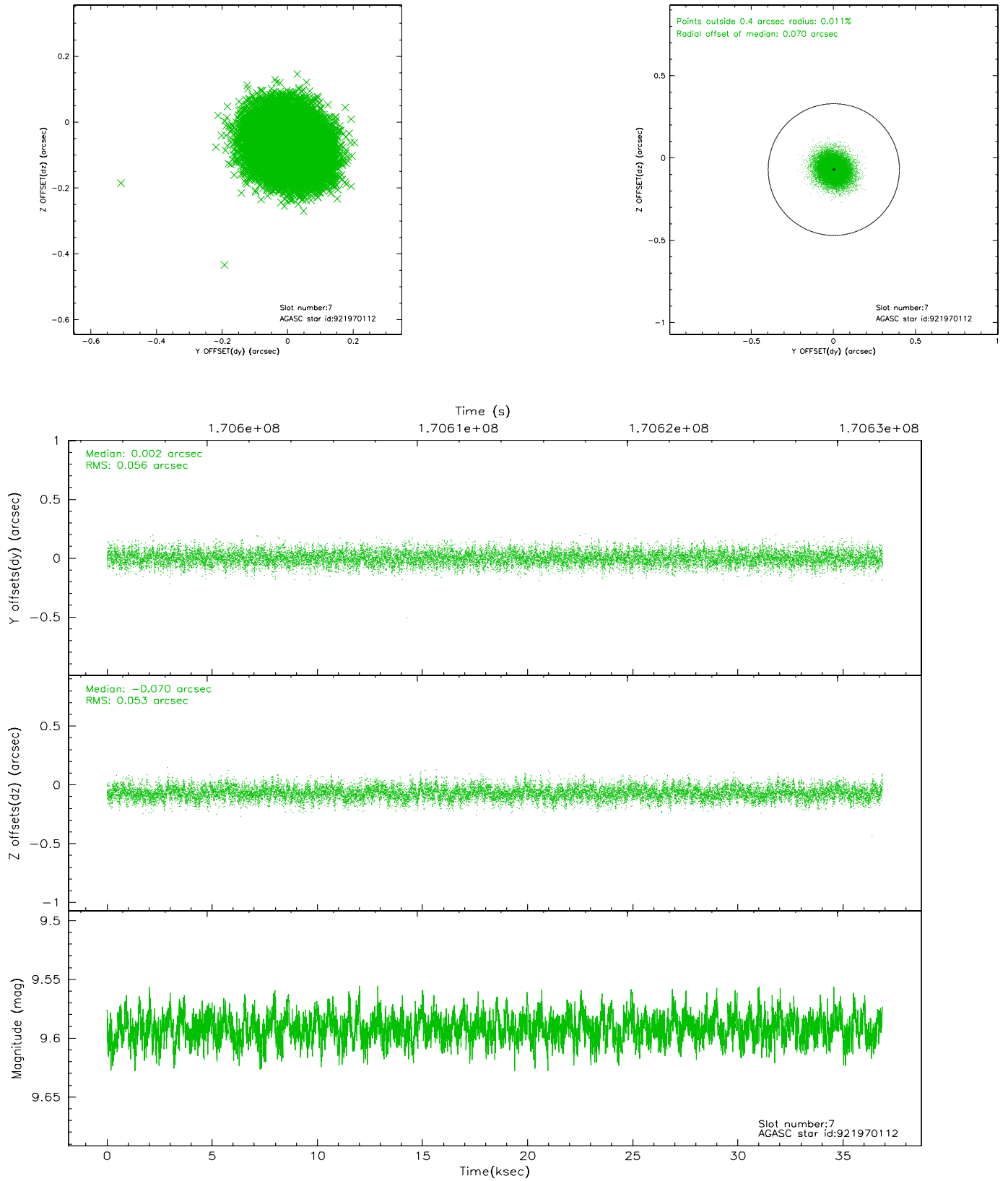
2.4.3 Slot 5



2.4.4 Slot 6

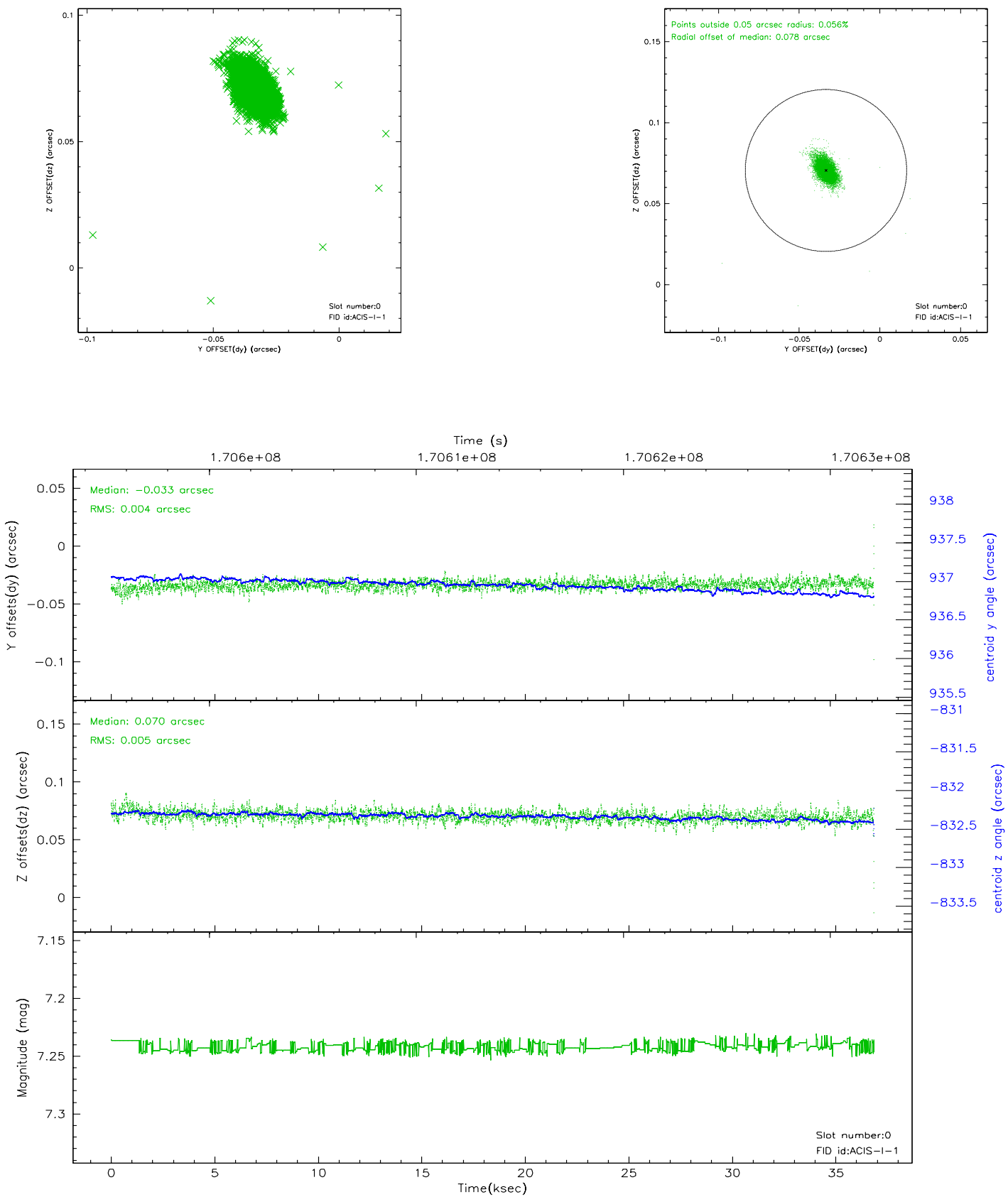


2.4.5 Slot 7

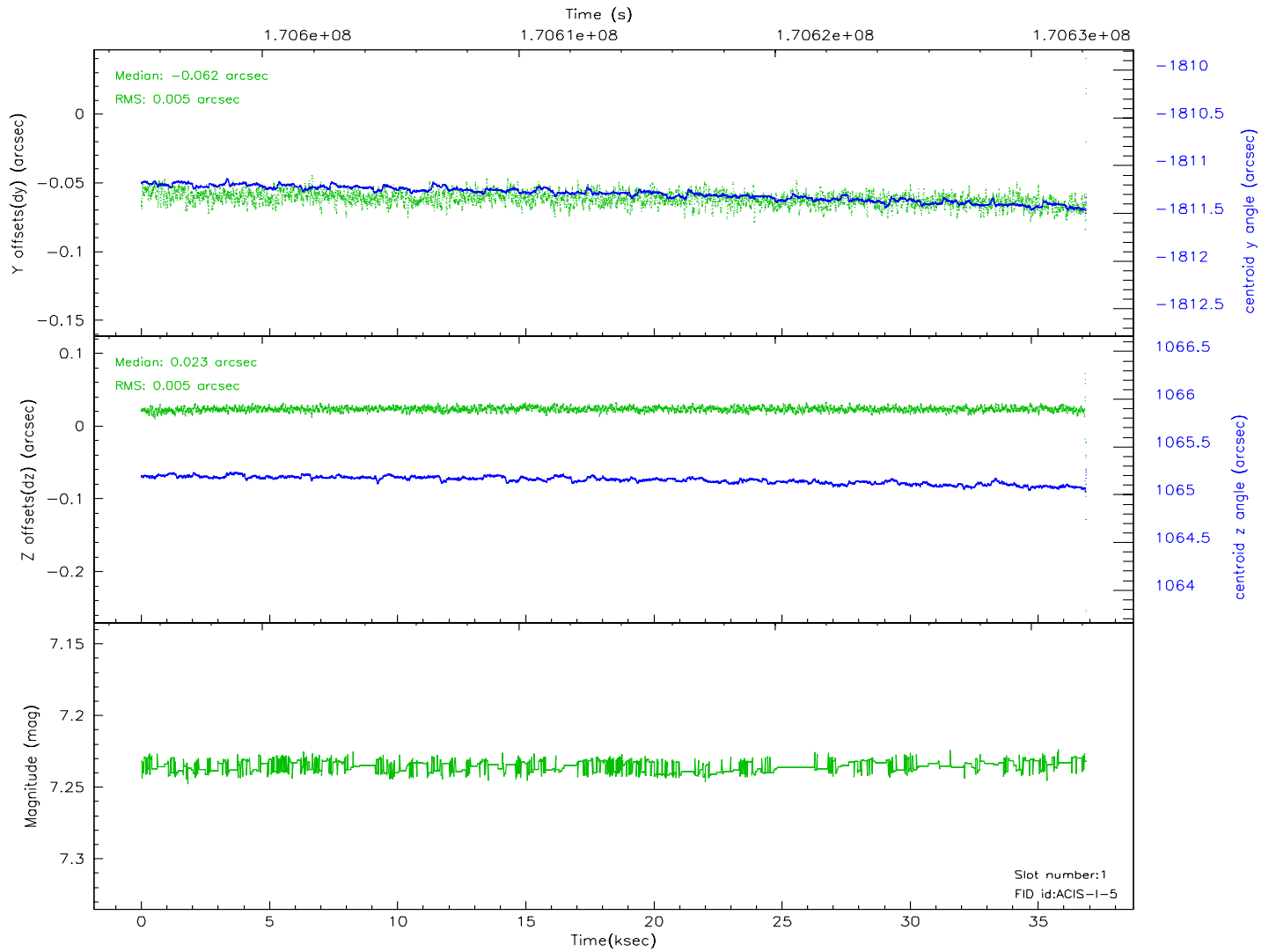
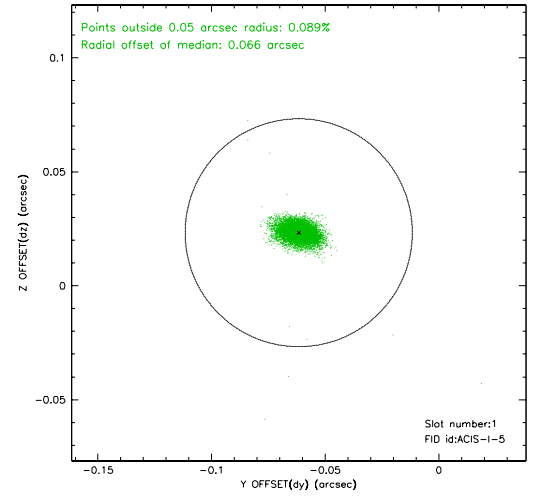
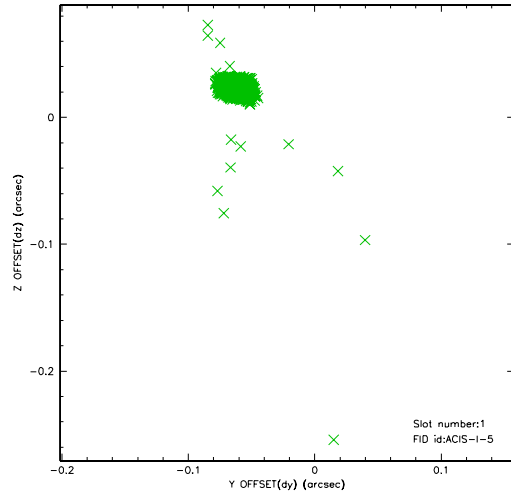


2.5 FID Slots

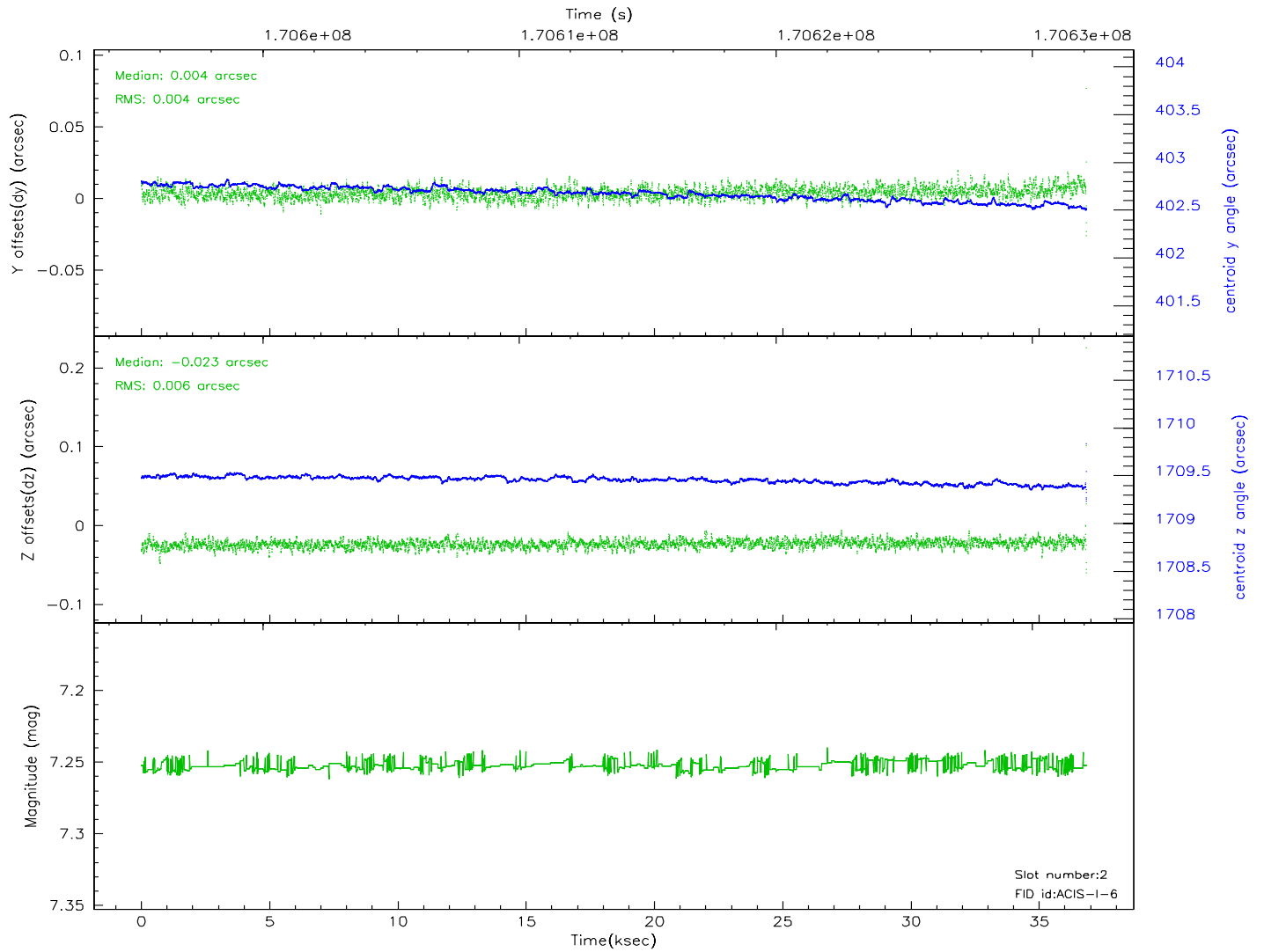
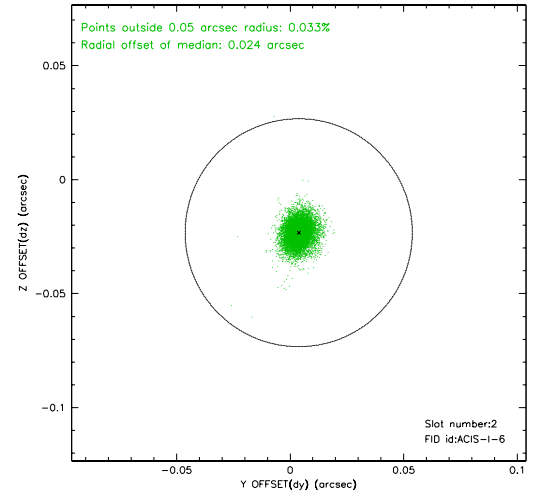
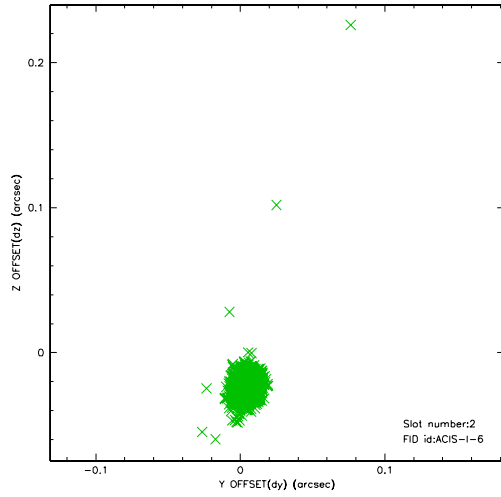
2.5.1 Slot 0



2.5.2 Slot 1



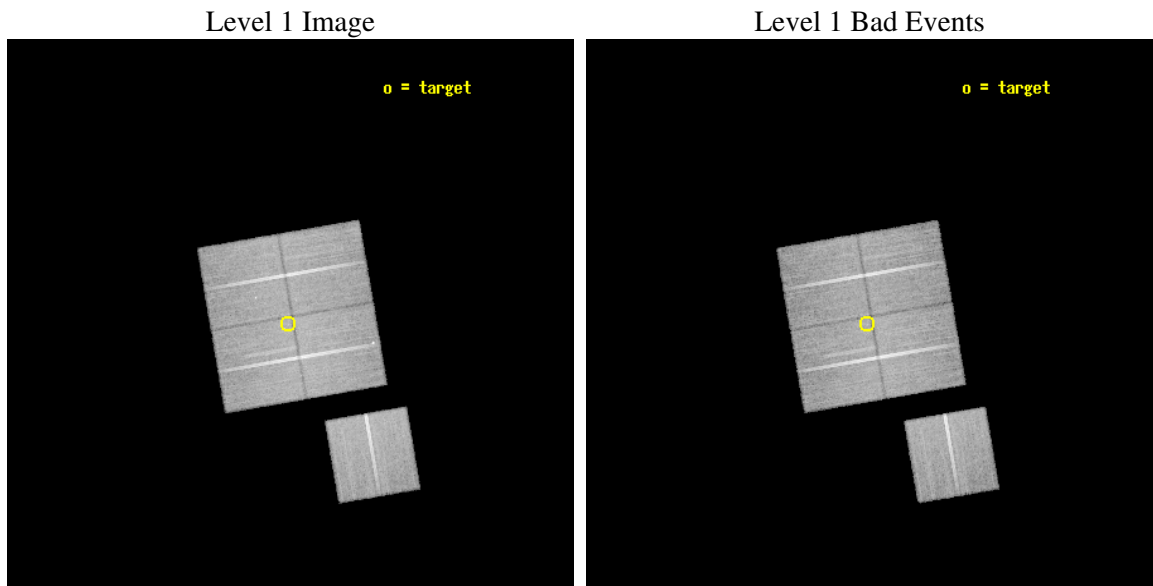
2.5.3 Slot 2



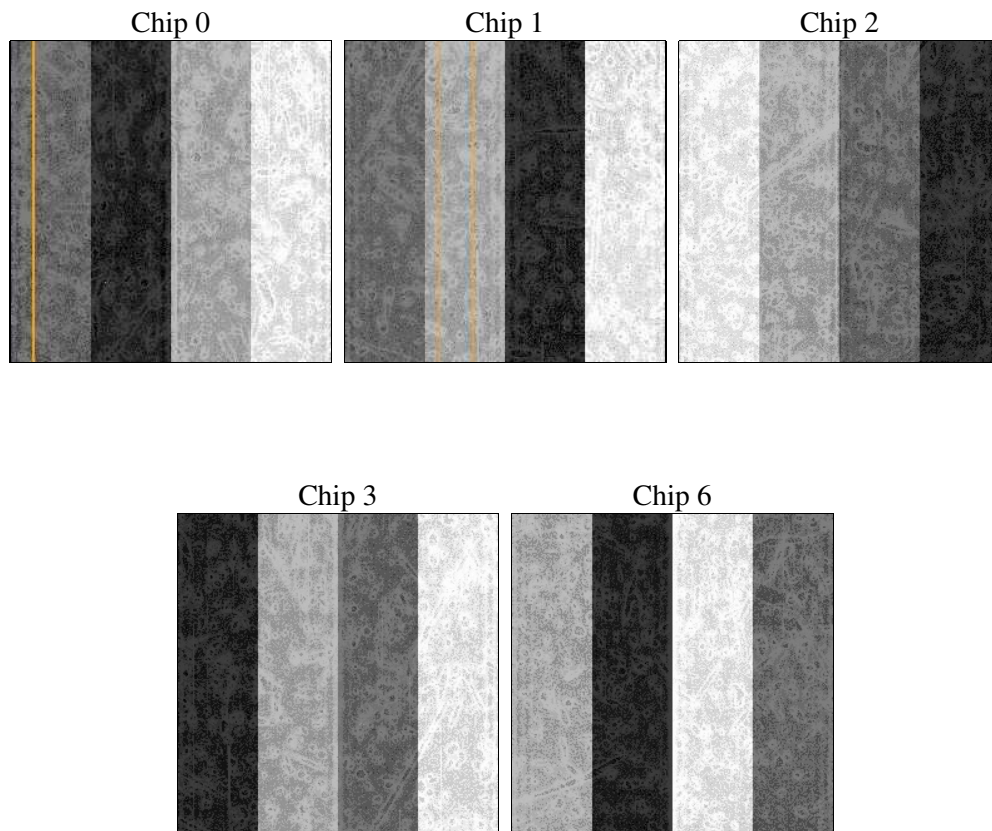
3 OBI

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1
ascdsver	7.6.11.6
caldbver	3.4.5
date	2008-06-17T18:48:07
revision	3

sched_exp_time	36980.577000
ontime	37085.258918643
ontime0	37078.977037936
ontime1	37085.258938551
ontime2	37085.258958489
ontime3	37085.258918643
ontime6	37085.25898838
l1events	967708

3.1.4 Events

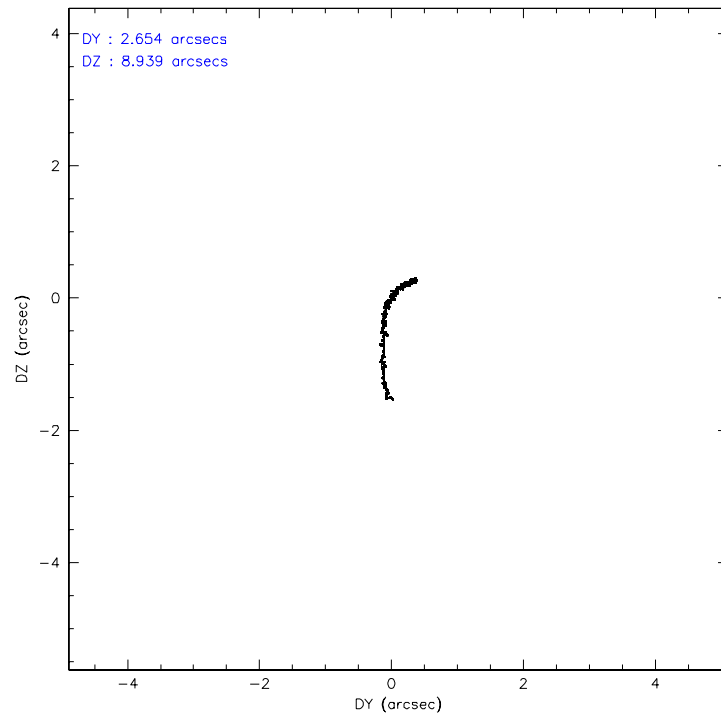
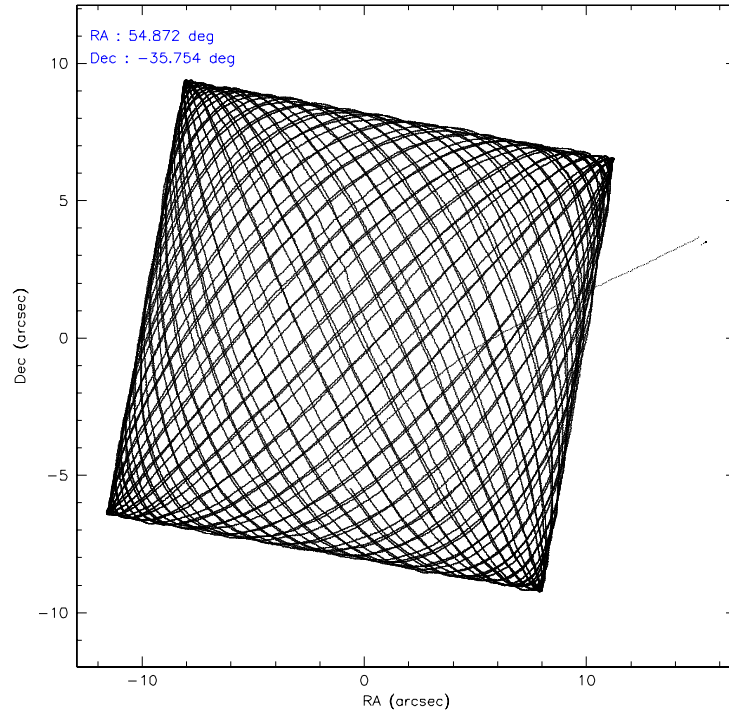
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	188733	182224	204261	195443	197047
rejected events	161402	155295	179921	172819	174722
rejected %	85%	85%	88%	88%	88%

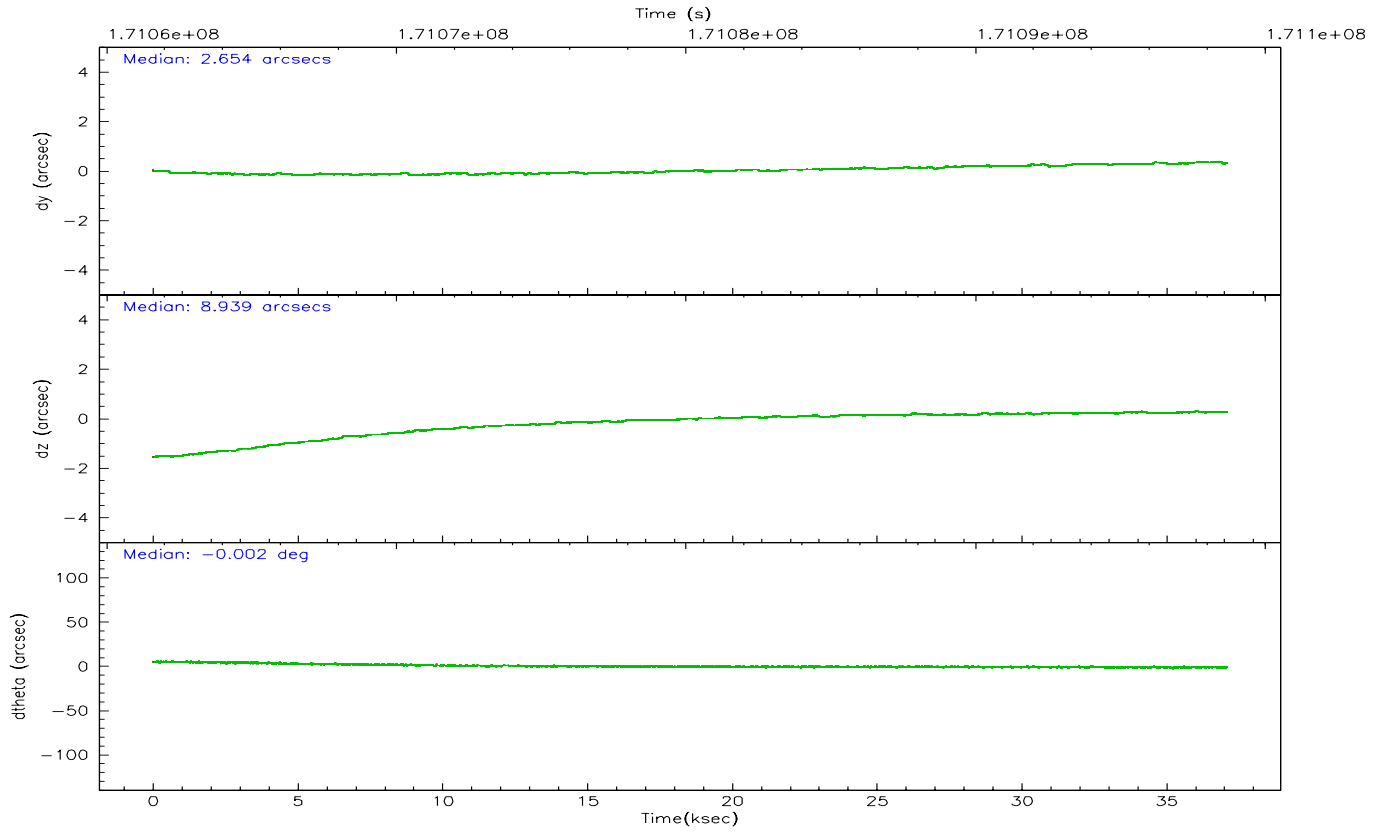
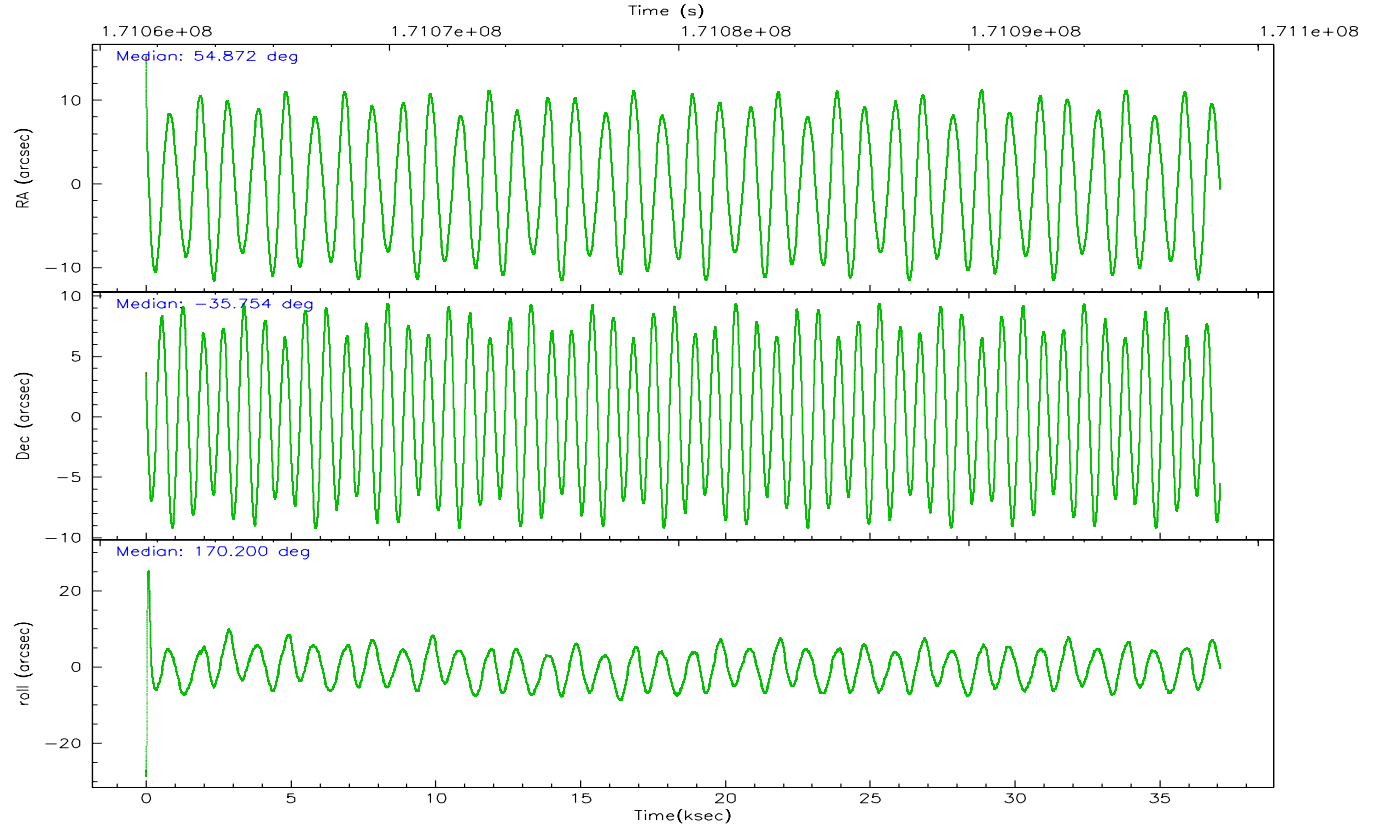
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	14062	12949	11783	10603	9638
	7%	7%	5%	5%	4%
grade 1 events	97	113	112	116	88
	0%	0%	0%	0%	0%
grade 2 events	5090	5120	4899	4294	4258
	2%	2%	2%	2%	2%
grade 3 events	2472	2541	2342	2205	2364
	1%	1%	1%	1%	1%
grade 4 events	2277	2470	2267	2252	2288
	1%	1%	1%	1%	1%
grade 5 events	6695	7002	6305	7423	7449
	3%	3%	3%	3%	3%
grade 6 events	3863	4345	3470	3669	4211
	2%	2%	1%	1%	2%
grade 7 events	154177	147684	173083	164881	166751
	81%	81%	84%	84%	84%

3.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-01236	ACIS-01236	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
Pointing RA	54.903942	54.87234190680213	Subarray requested	NONE	NONE
Pointing Dec	-35.744047	-35.75362292367429	Alternating exposures requested	N	N
Pointing Roll	170.015666	170.2058624157478	Primary exposure time	0.000000	3.1
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	171061707.184000	171060359.08977			
Observation start date	2003-06-03T21:07:23	2003-06-03T20:45:59			
Observation end time	171098687.184000	171099002.1039			
Observation end date	2003-06-04T07:23:43	2003-06-04T07:30:02			
Read mode	TIMED	TIMED			

3.3 Aspect



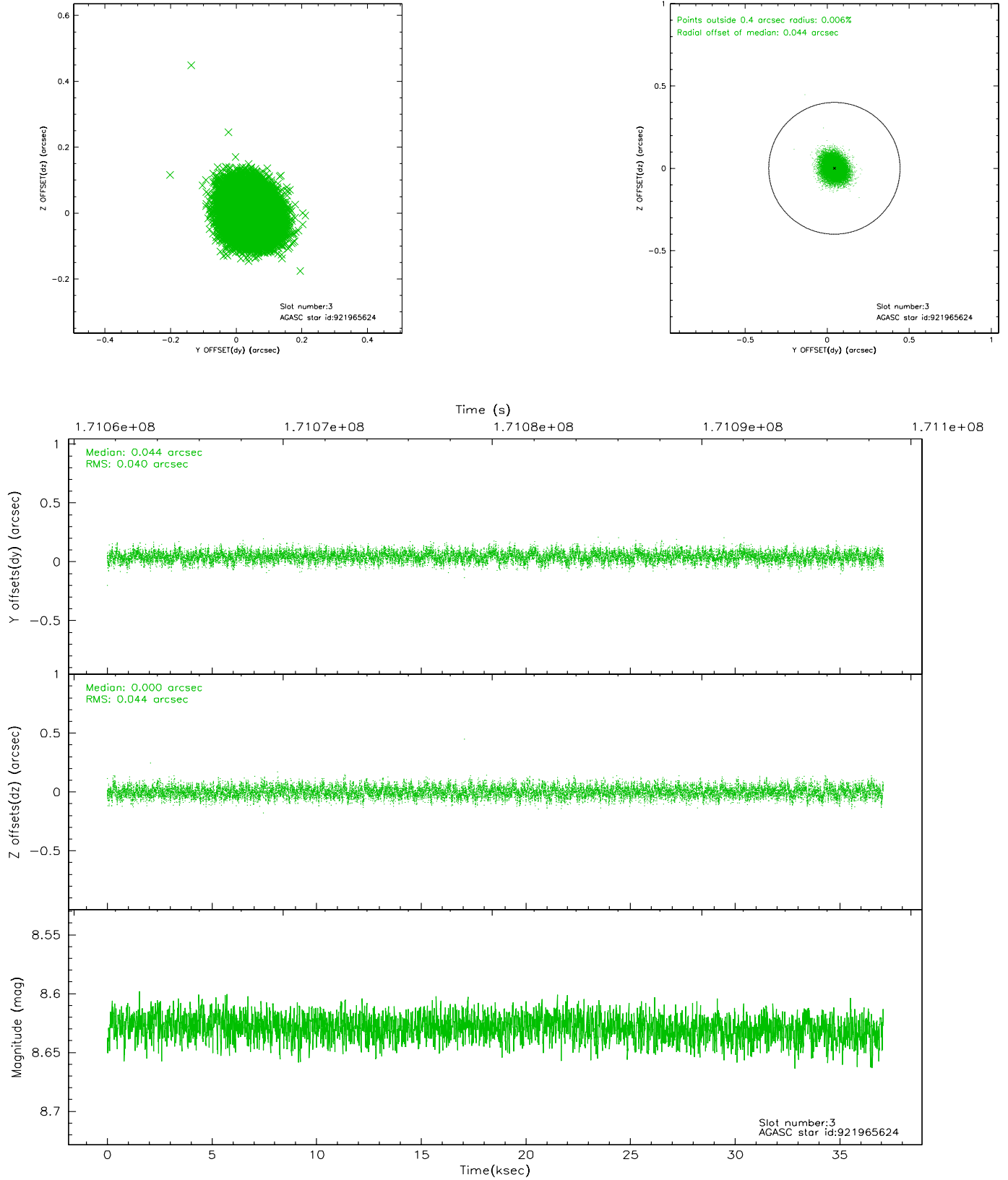


Slot Statistics

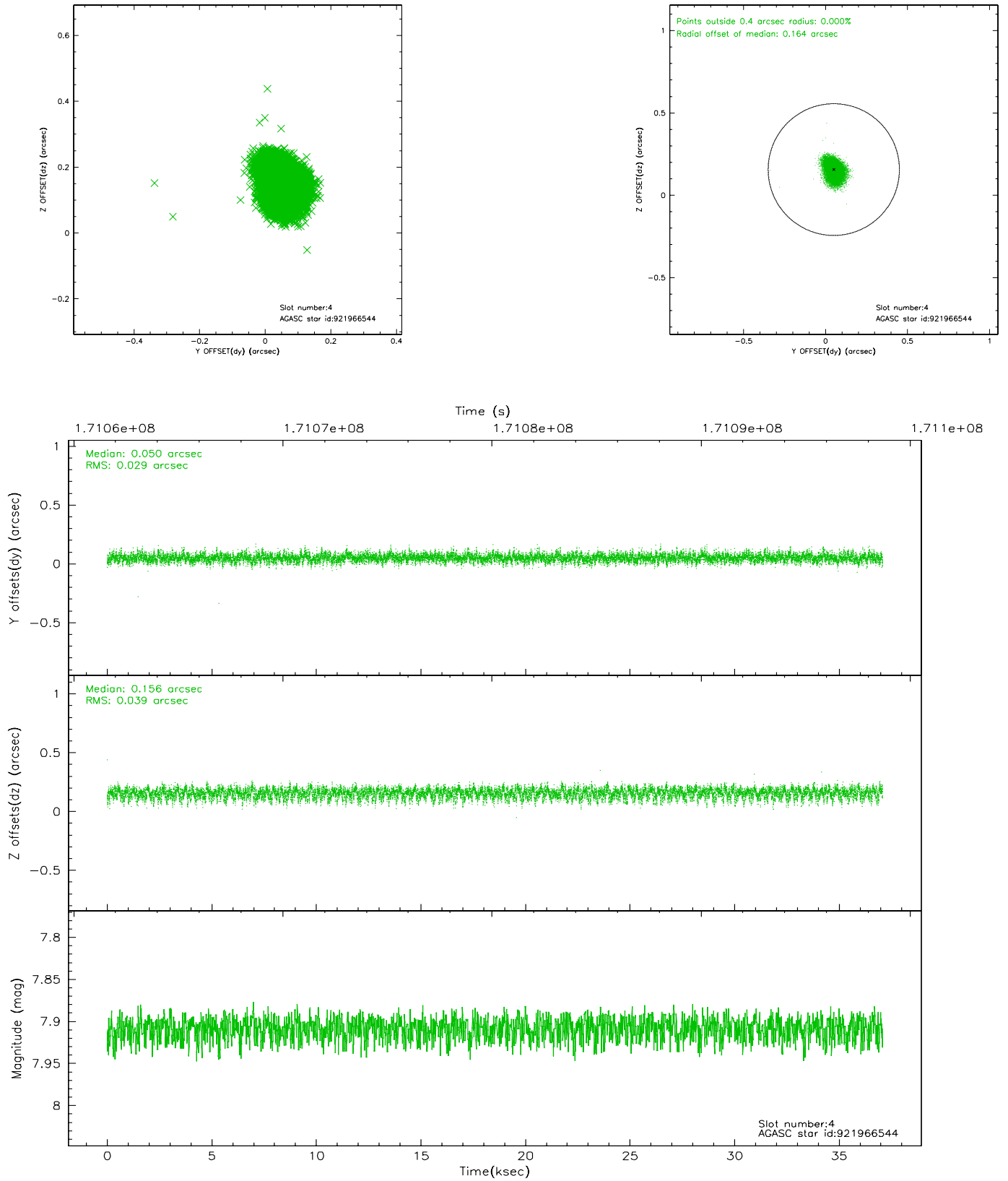
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	8990	-0.033	0.070	0.006	0.010	0.000000	0.000000	936.95	-832.34
1	FID	ACIS-I-5	7.24	8996	-0.062	0.023	0.006	0.010	0.000000	0.000000	-1811.19	1065.06
2	FID	ACIS-I-6	7.25	8989	0.004	-0.023	0.007	0.011	0.000000	0.000000	402.47	1709.57
3	GUIDE	921965624	8.63	17989	0.036	-0.001	0.075	0.118	54.900706	-35.940077	-112.94	696.67
4	GUIDE	921966544	7.91	17993	0.045	0.147	0.052	0.087	54.743508	-35.636012	530.02	-300.87
5	GUIDE	921967072	7.67	17994	-0.041	-0.123	0.068	0.103	54.269247	-36.292226	1470.56	2268.84
6	GUIDE	921970016	9.40	17977	-0.040	0.047	0.079	0.129	54.228536	-36.081558	1722.87	1544.23
7	GUIDE	921970112	9.59	17945	0.002	-0.070	0.082	0.134	54.291262	-35.695592	1793.64	144.51

3.4 Star Slots

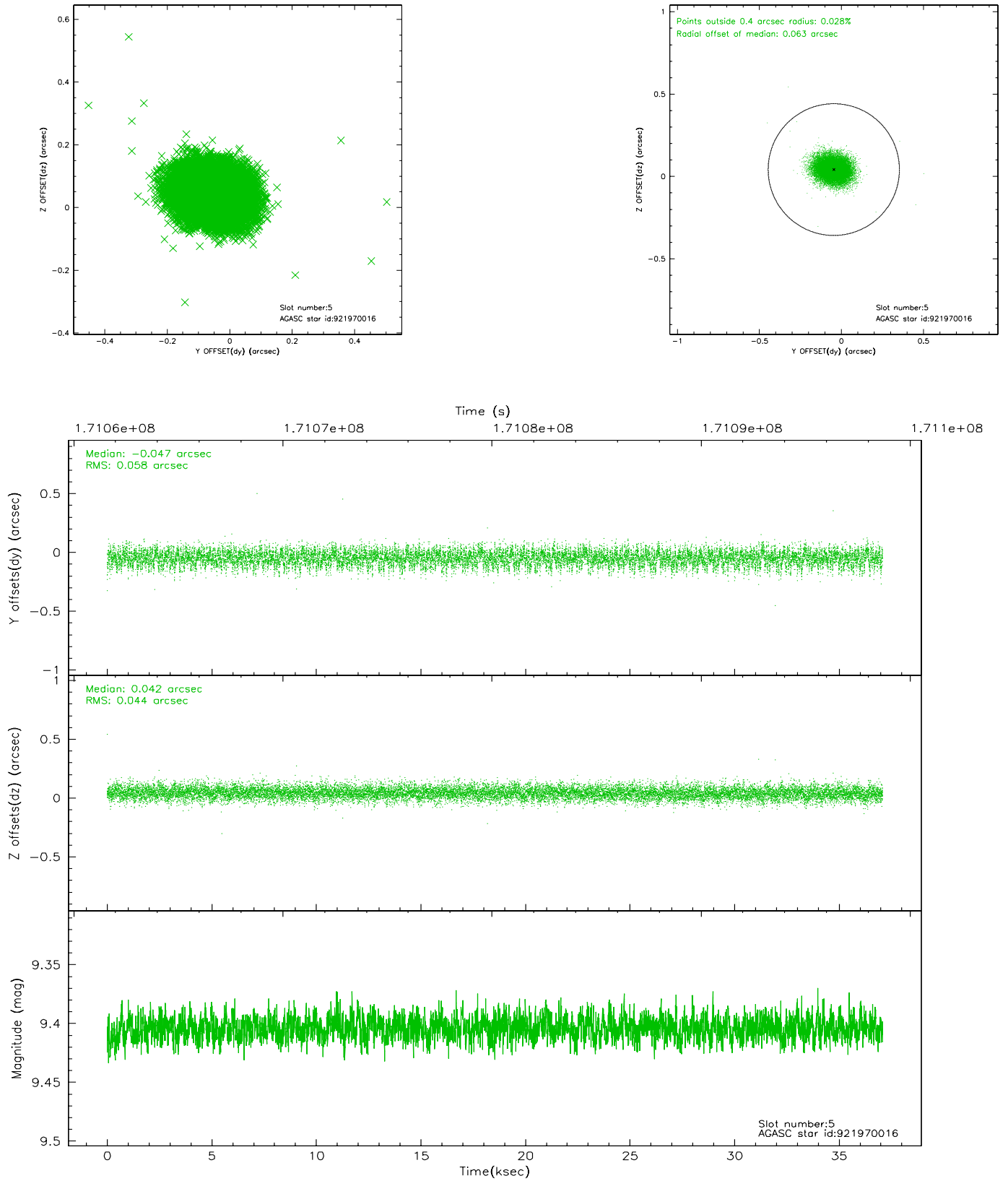
3.4.1 Slot 3



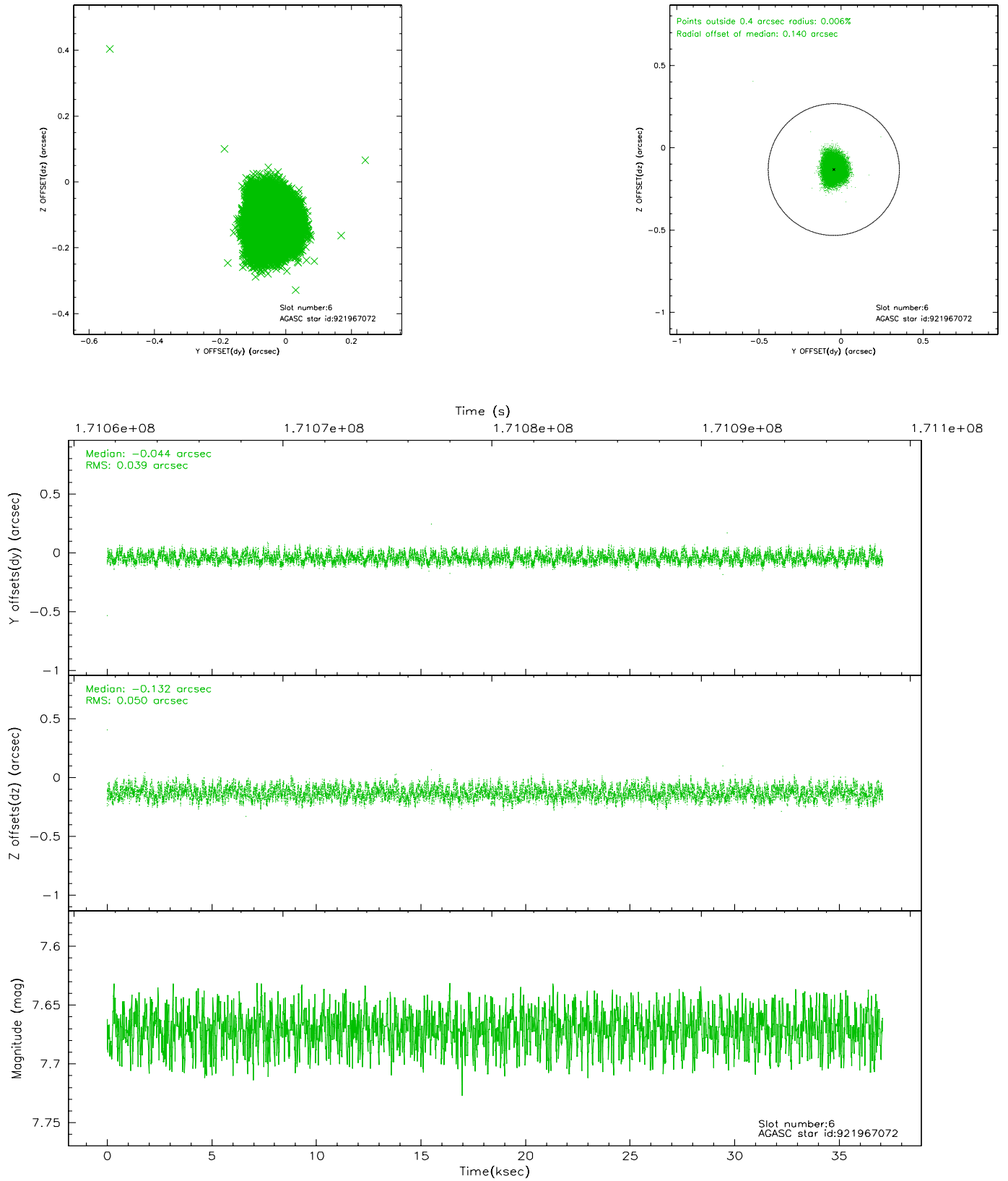
3.4.2 Slot 4



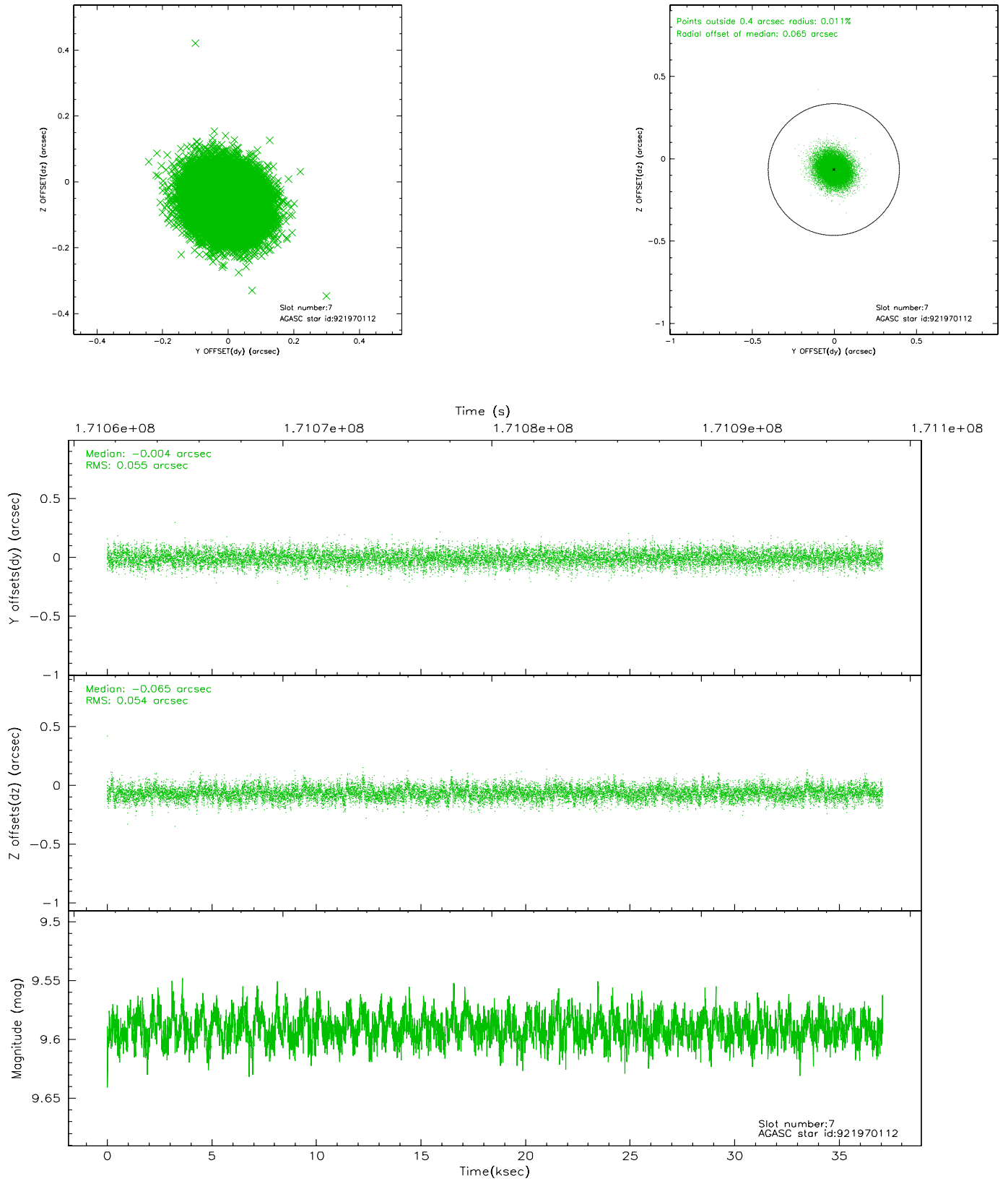
3.4.3 Slot 5



3.4.4 Slot 6

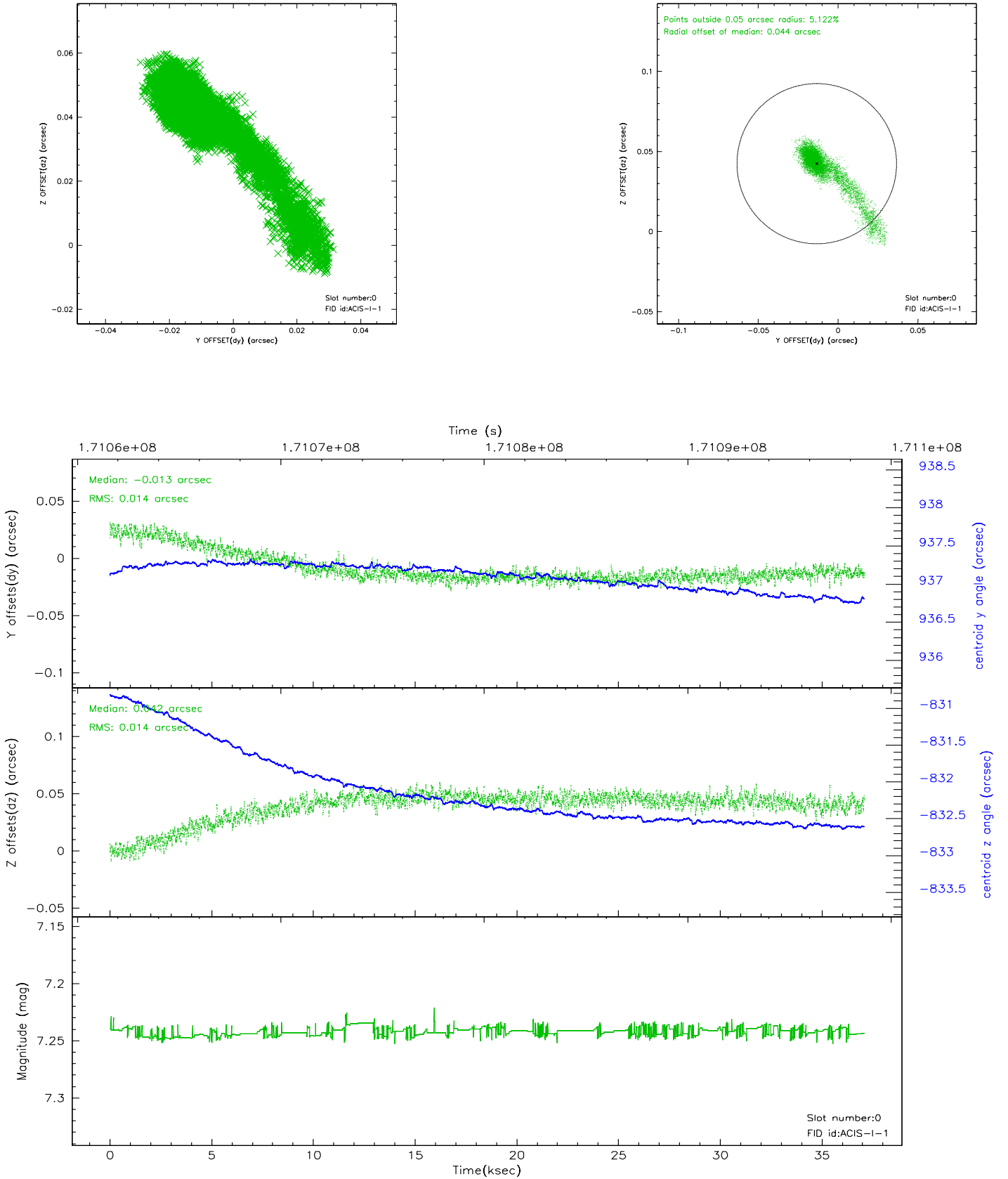


3.4.5 Slot 7

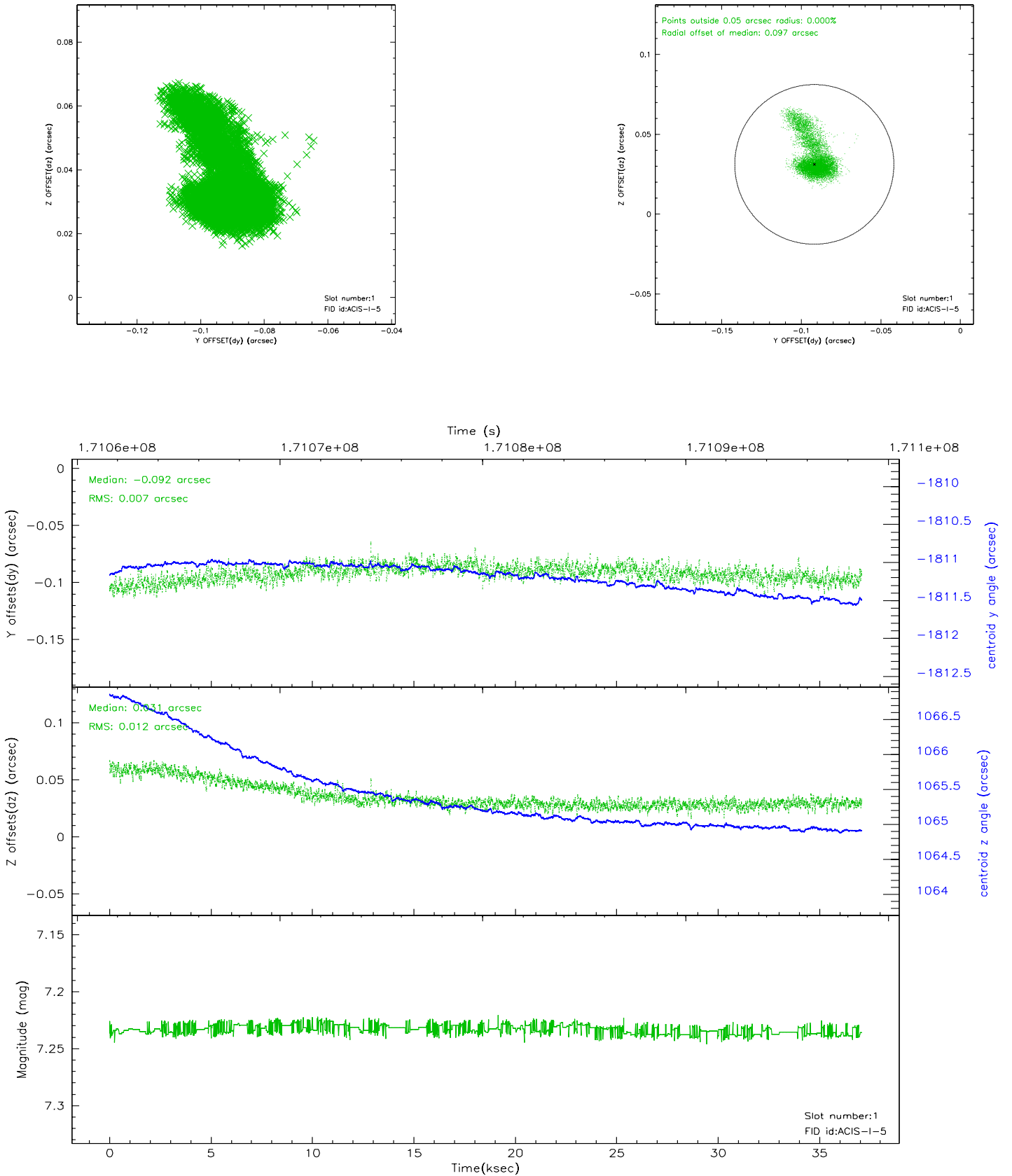


3.5 FID Slots

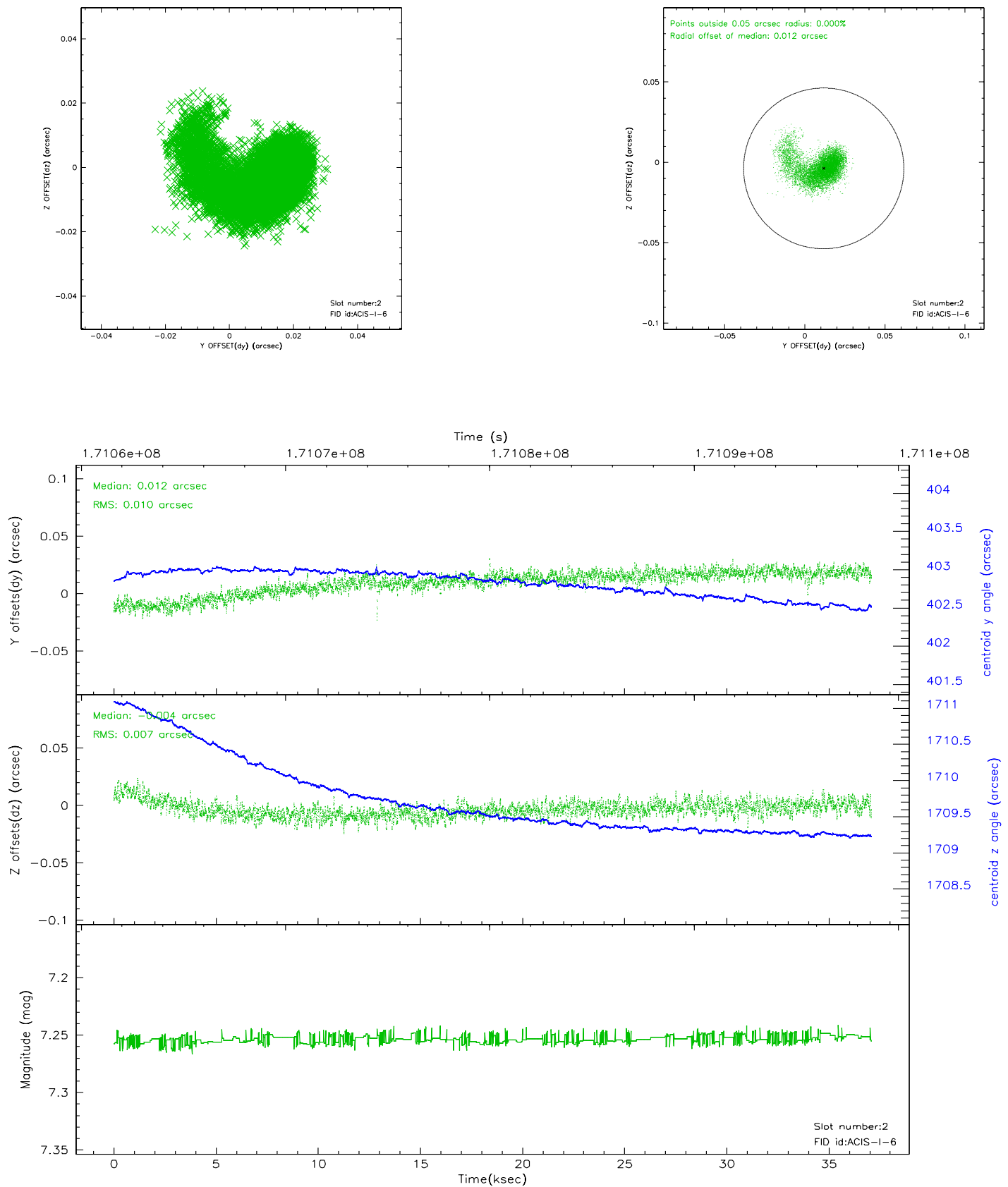
3.5.1 Slot 0



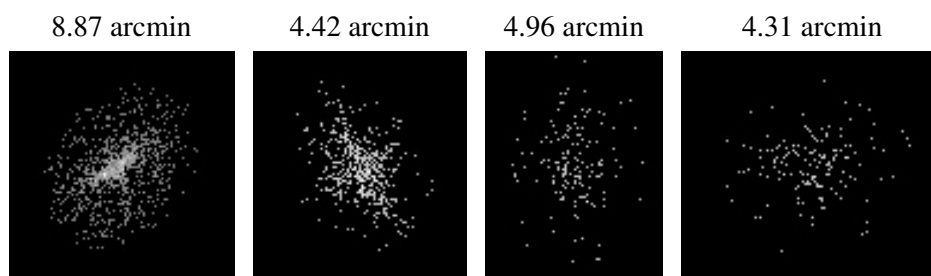
3.5.2 Slot 1



3.5.3 Slot 2



4 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2008.06.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	63.73

A.2 Comments

This dataset is composed of two obi's. The 2 obi's have been combined in the Level 2 event file. Obi=0 was interrupted by safing of the science instruments onboard Chandra due to high solar radiation environment. The observation was interrupted at 2003:149:21:47:28. This observation had a very high background due to the level of radiation before the instrument safing occurred. Most of the observation was repeated with obi=1.