

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 2001 - L2 Version 001
Chandra X-Ray Center

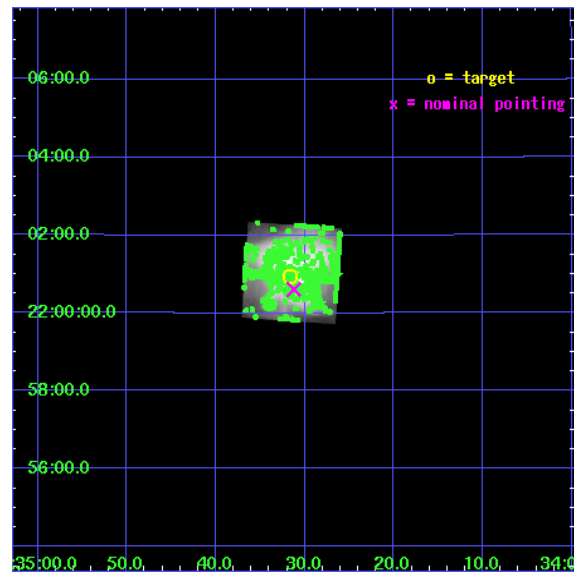
L2 Processing Date : Nov 4 2006

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Parameters	4
2.1.3	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
3	Point Sources	17
A	Summary	18
A.1	Status	18
A.2	Comments	18

1 Front

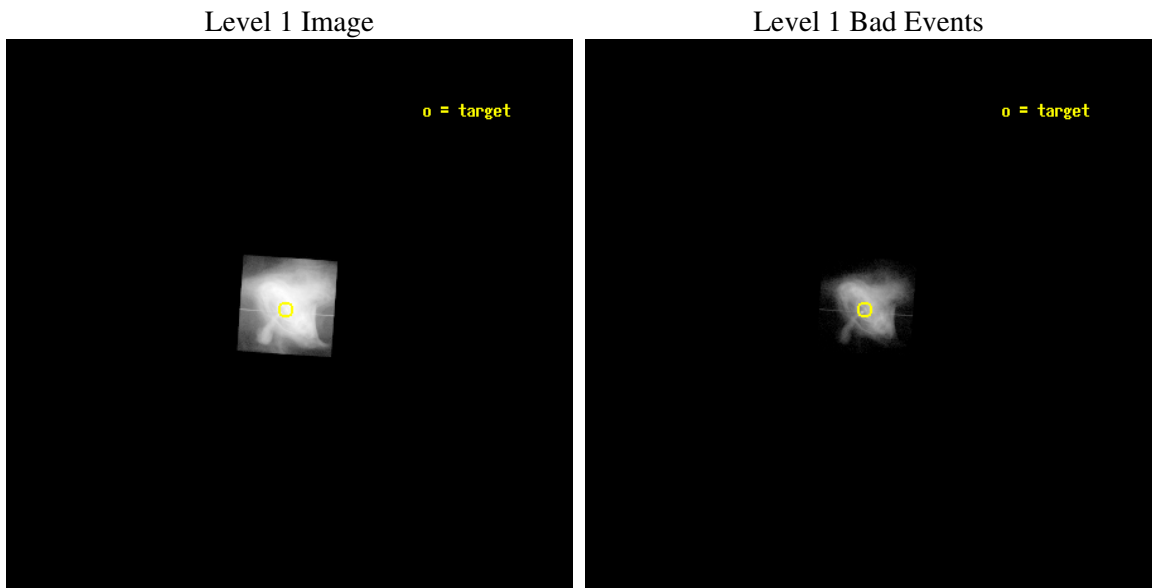
seq_num	500178
obs_id	2001
title	COORDINATED CHANDRA/HST OBSERVATIONS OF THE CRAB NEBULA
observer	PROF. JEFF HESTER
object	CRAB NEBULA
dtcycle	0
cycle	P
ra_targ	83.631667
dec_targ	22.015667
ra_nom	83.630188660325
dec_nom	22.010060184541
roll_nom	273.91166430857
revision	3
ontime	14601.242283955
livetime	2552.9325250823
ontime7	14601.242283955
l2events	8756874



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-11-04T13:59:28
revision	3

sched_exp_time	24140.918000
ontime	15493.784593731
ontime7	15493.784593731
l1events	9917914

2.1.3 Events

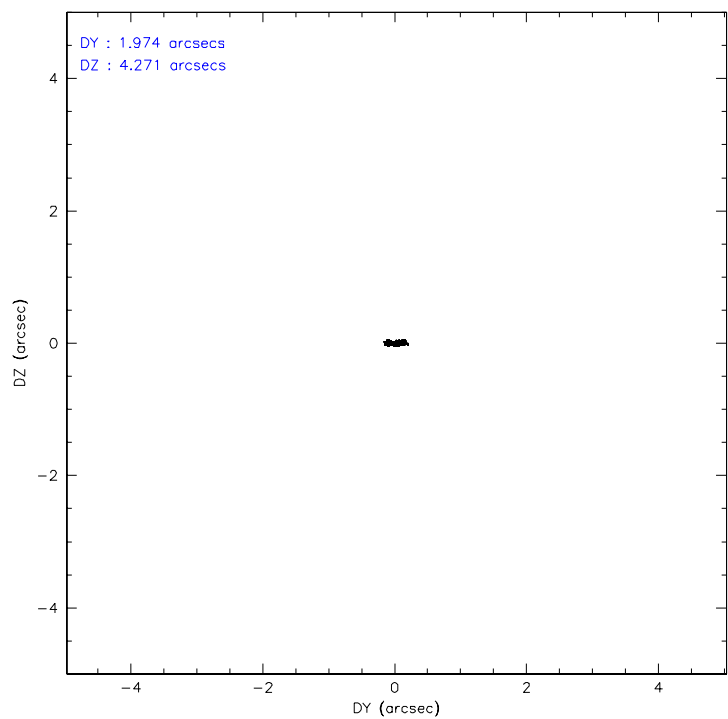
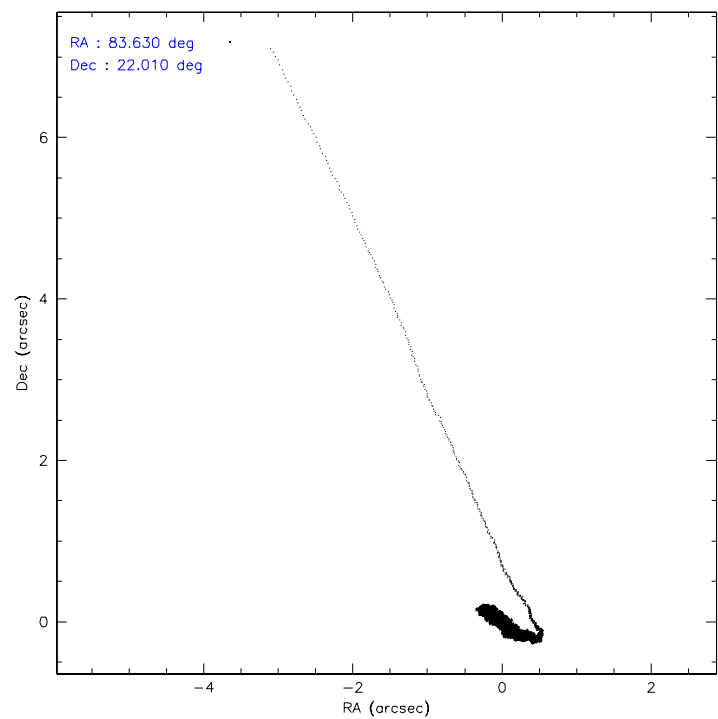
	ccd 7
level 1 events	9917914
rejected events	1072916
rejected %	10%

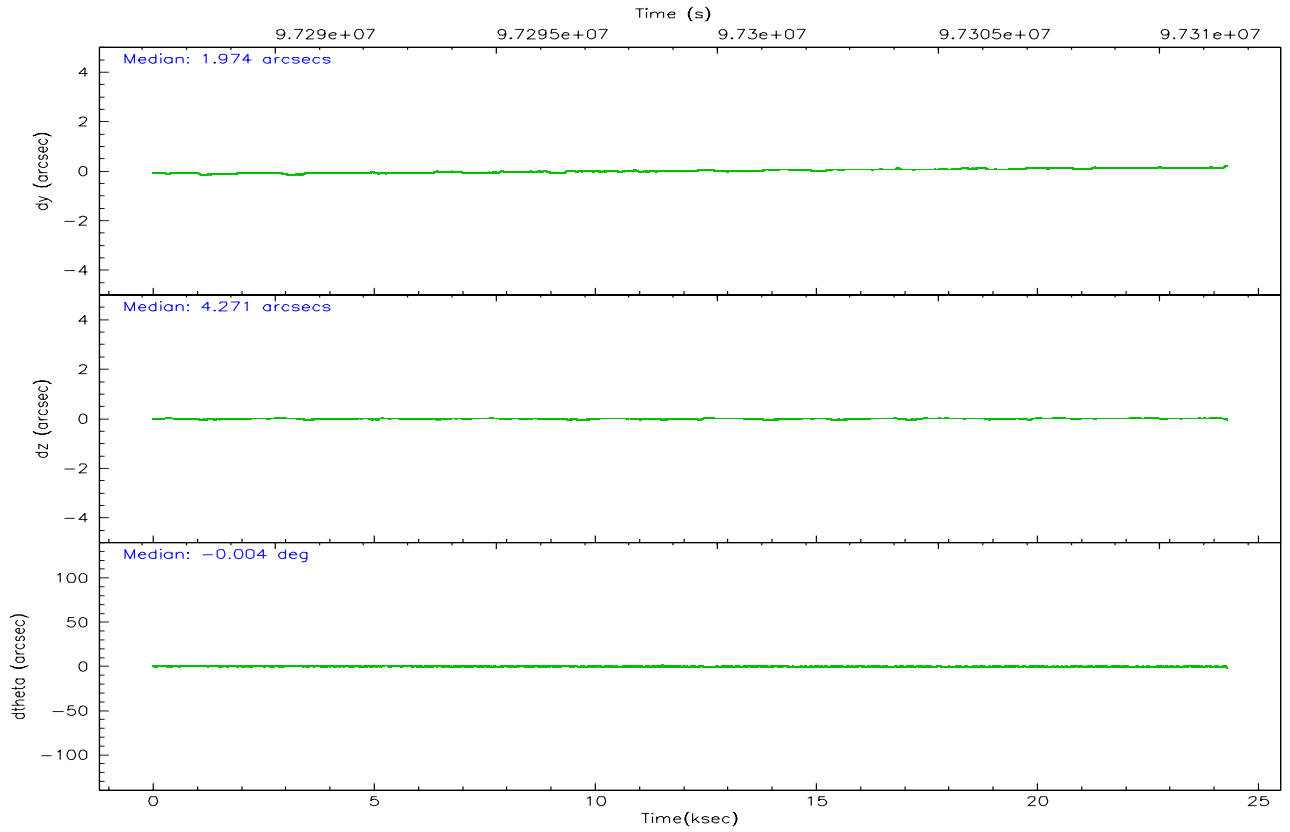
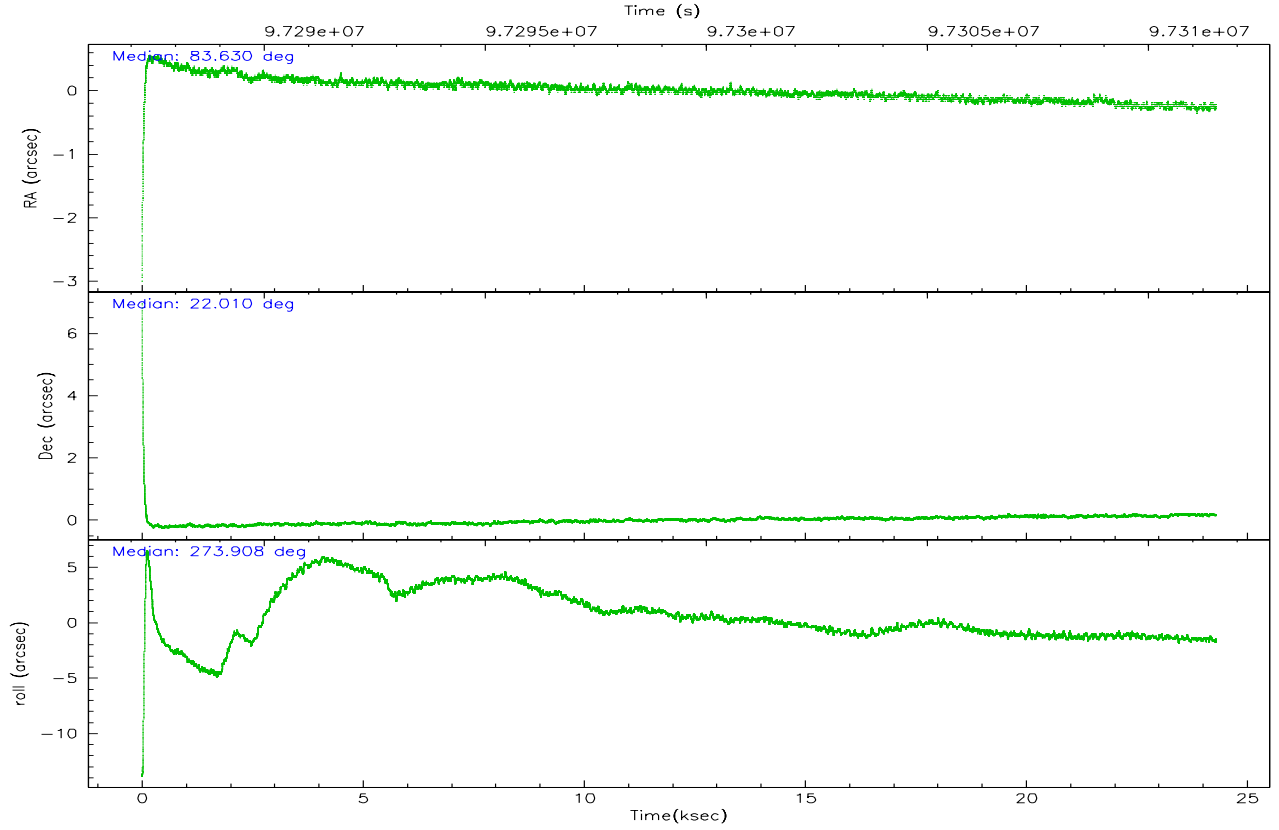
	ccd 7
grade 0 events	2080546
	20%
grade 1 events	136500
	1%
grade 2 events	2365860
	23%
grade 3 events	1050168
	10%
grade 4 events	1019757
	10%
grade 5 events	364979
	3%
grade 6 events	2413615
	24%
grade 7 events	486489
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	83.613535	83.63018866032519	Subarray requested	CUSTOM	CUSTOM
Pointing Dec	22.032599	22.01006018454139	Subarray start row	39	39
Pointing Roll	273.761291	273.9116643085736	Subarray row count	300	300
Window start time	97146064.184000	97146064.184000	Alternating exposures requested	N	N
Window stop time	97376464.184000	97376464.184000	Primary exposure time	0.000000	0.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.366523	-182.3582601915437			
SIM translation stage offset (mm)	-7.766	-7.774262391464134			
Observation start time	97287391.184000	97286286.55081999			
Observation start date	2001-01-31T00:15:27	2001-01-30T23:58:06			
Observation end time	97311532.184000	97311846.976805			
Observation end date	2001-01-31T06:57:48	2001-01-31T07:04:06			
Read mode	TIMED	TIMED			

2.3 Aspect



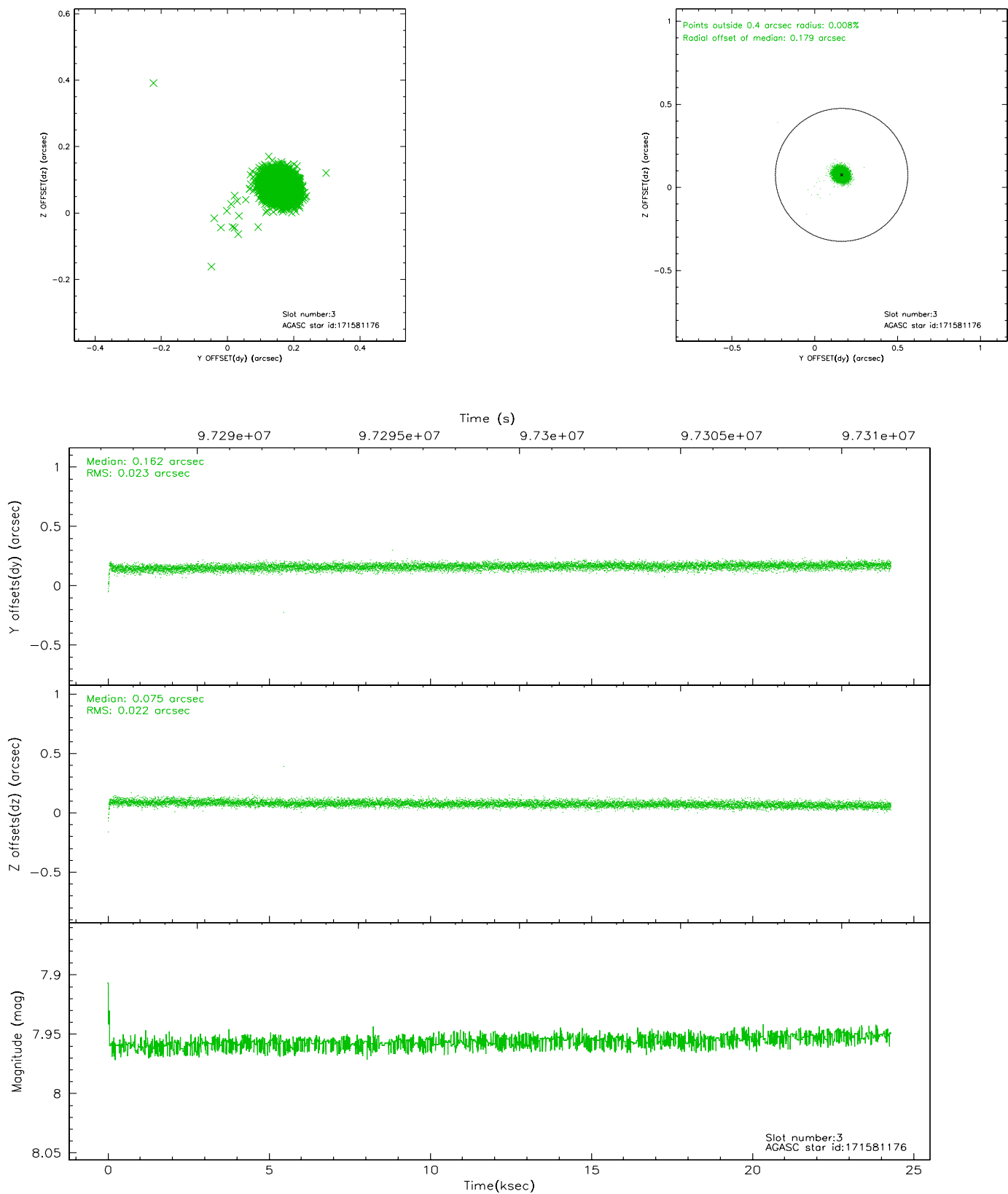


Slot Statistics

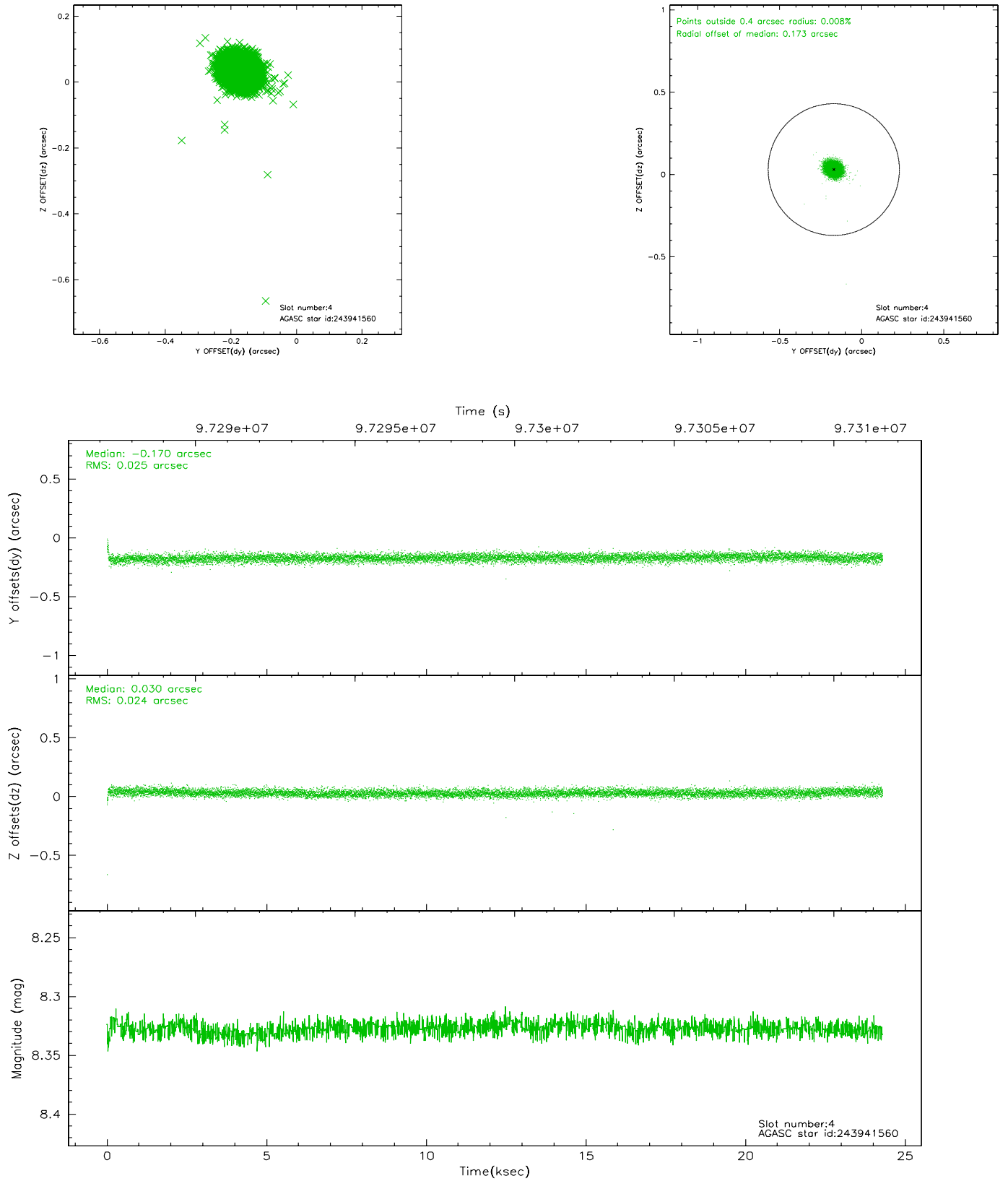
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	5926	-0.054	-0.049	0.006	0.010	0.000000	0.000000	-754.11	-1885.57
1	FID	ACIS-S-4	7.18	5926	-0.004	0.039	0.005	0.009	0.000000	0.000000	2159.17	22.81
2	FID	ACIS-S-5	7.23	5926	0.027	0.018	0.006	0.010	0.000000	0.000000	-1806.69	16.64
3	GUIDE	171581176	7.96	11853	0.162	0.075	0.032	0.053	83.918863	21.403256	2328.20	873.08
4	GUIDE	243941560	8.33	11851	-0.170	0.030	0.035	0.058	83.733264	22.568598	-1898.29	523.97
5	GUIDE	171585880	8.40	11853	-0.067	-0.204	0.039	0.065	83.676260	22.176319	-501.66	242.62
6	GUIDE	171586976	8.50	11851	-0.048	0.176	0.038	0.061	83.857953	22.438065	-1402.77	907.71
7	GUIDE	171597832	9.17	11844	0.125	-0.079	0.056	0.094	83.183230	21.366702	2296.75	-1596.40

2.4 Star Slots

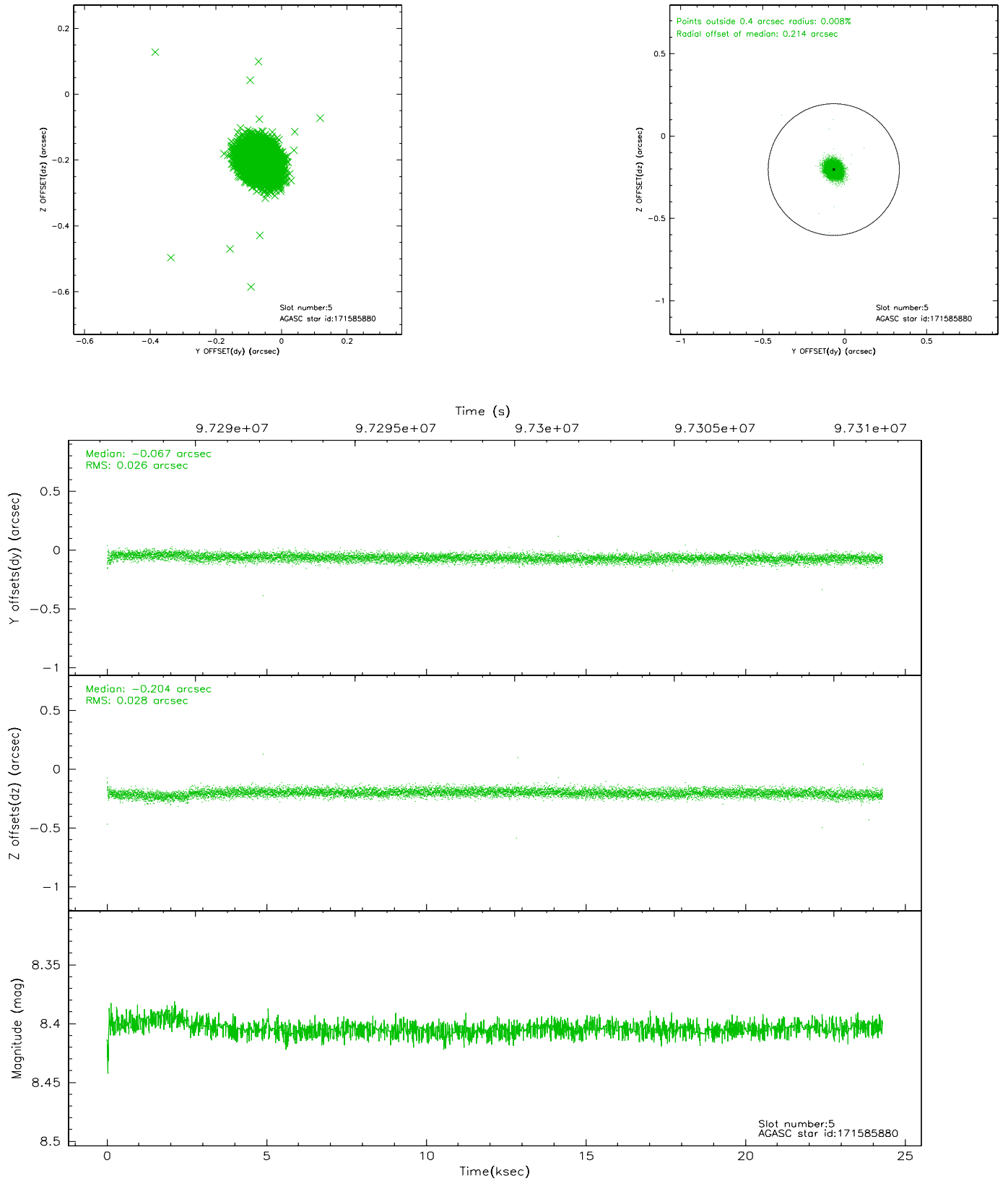
2.4.1 Slot 3



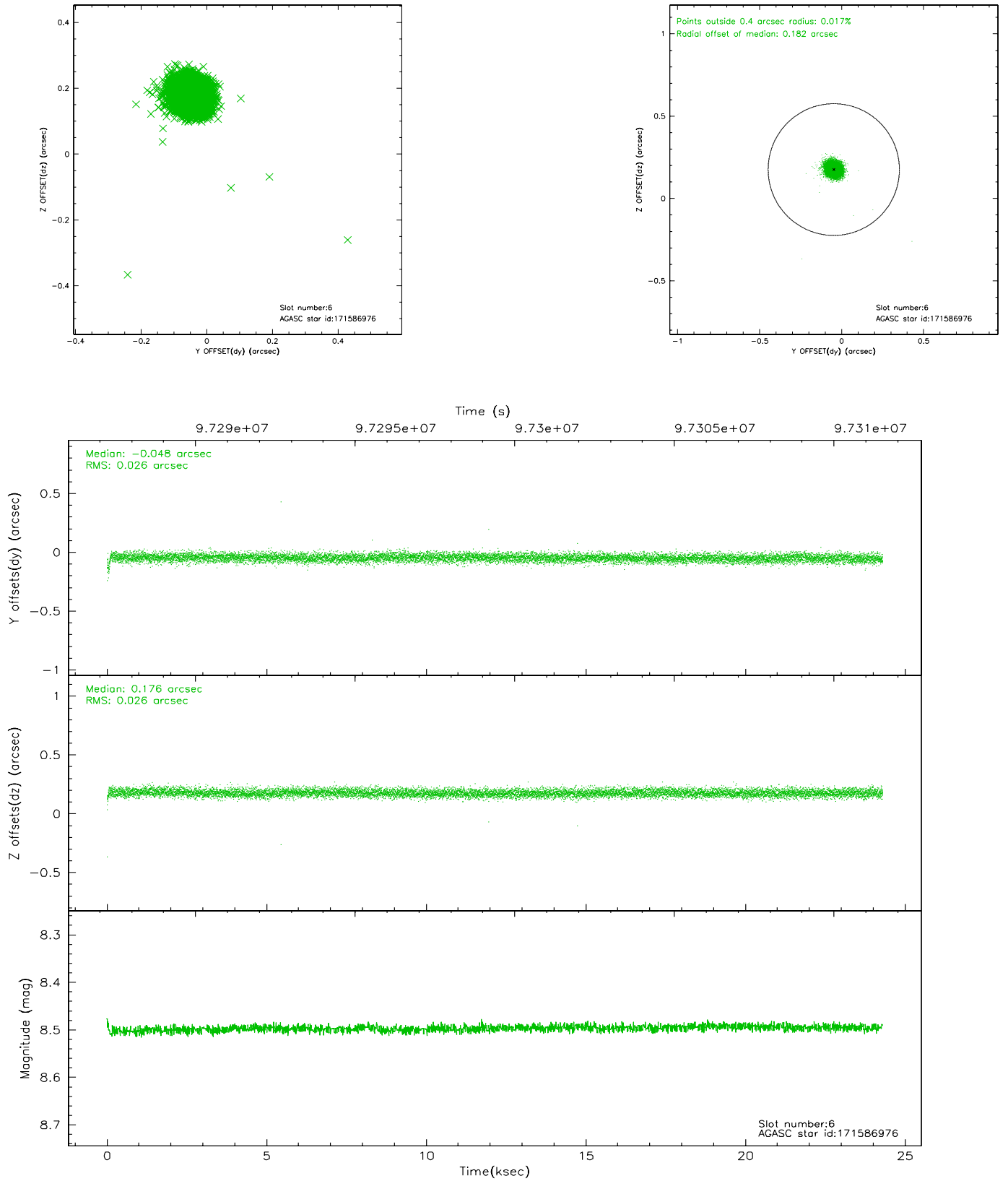
2.4.2 Slot 4



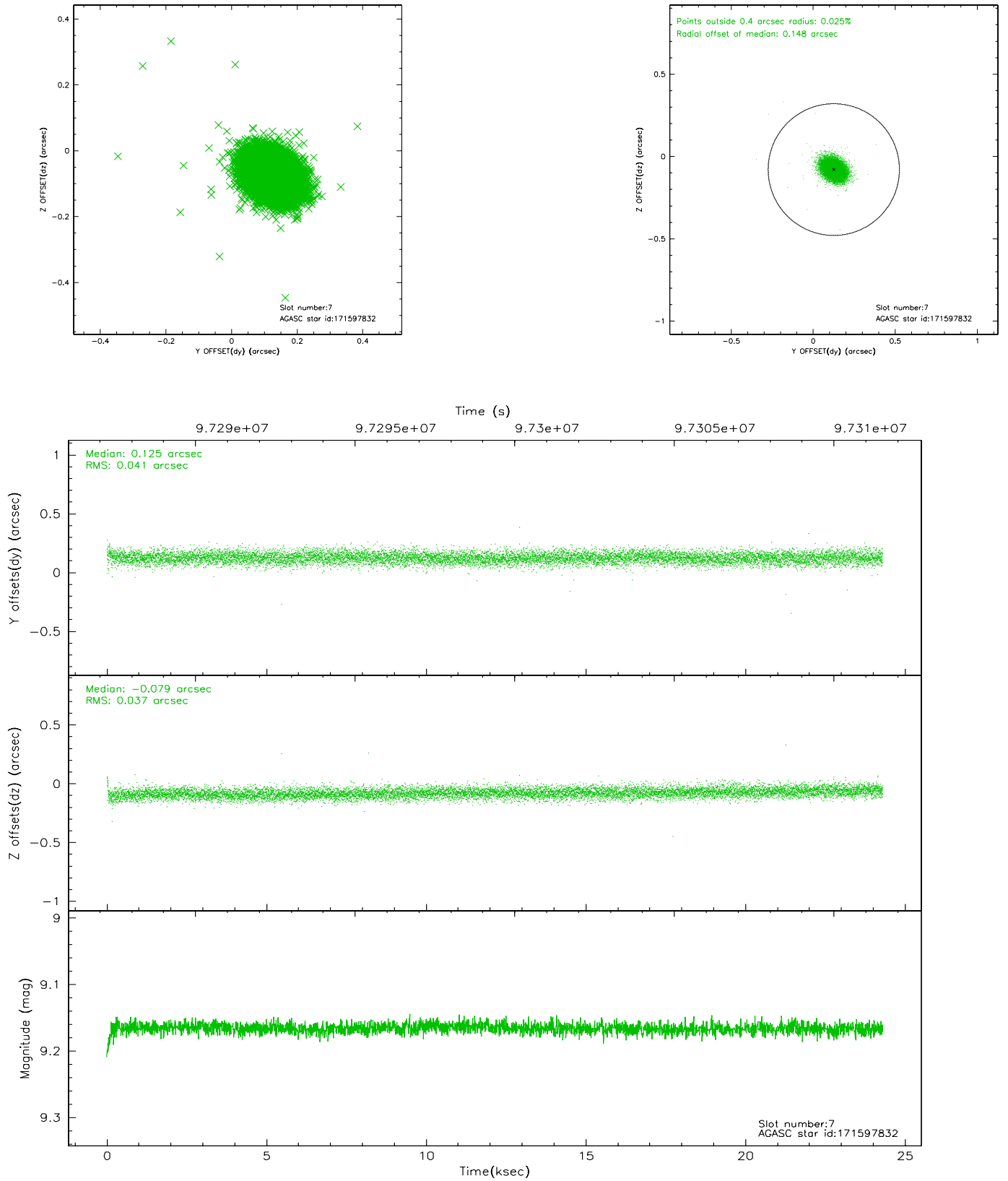
2.4.3 Slot 5



2.4.4 Slot 6

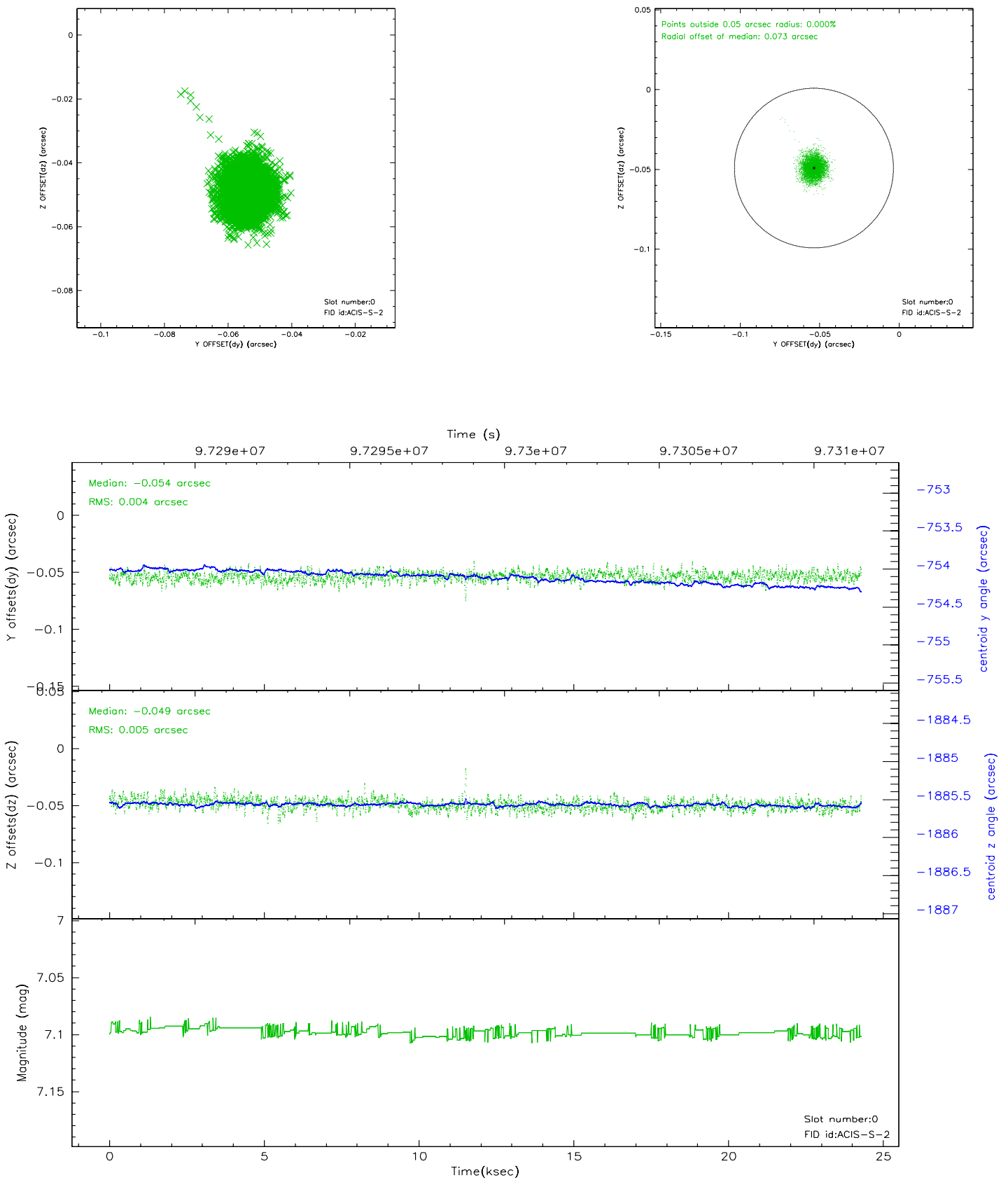


2.4.5 Slot 7

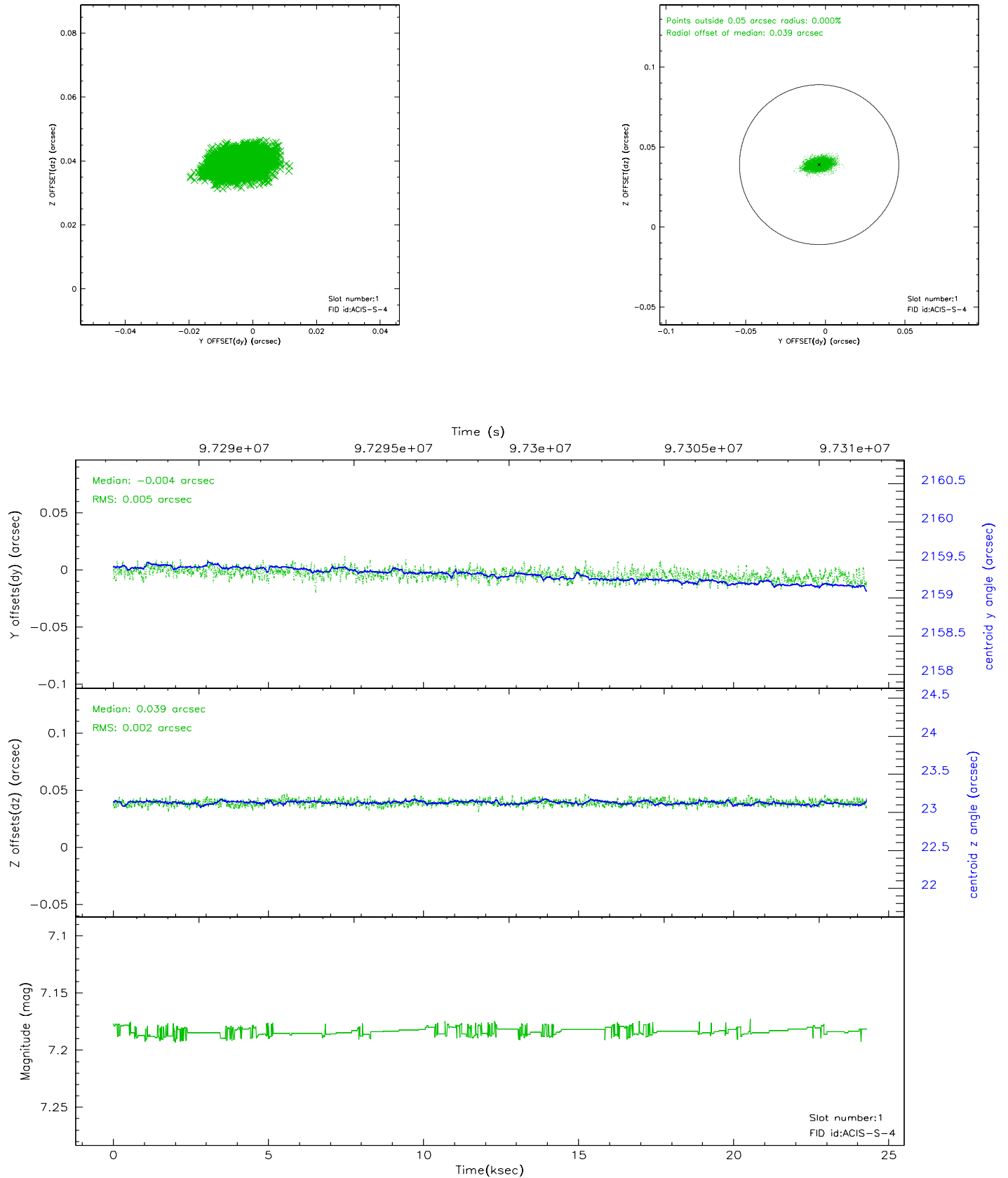


2.5 FID Slots

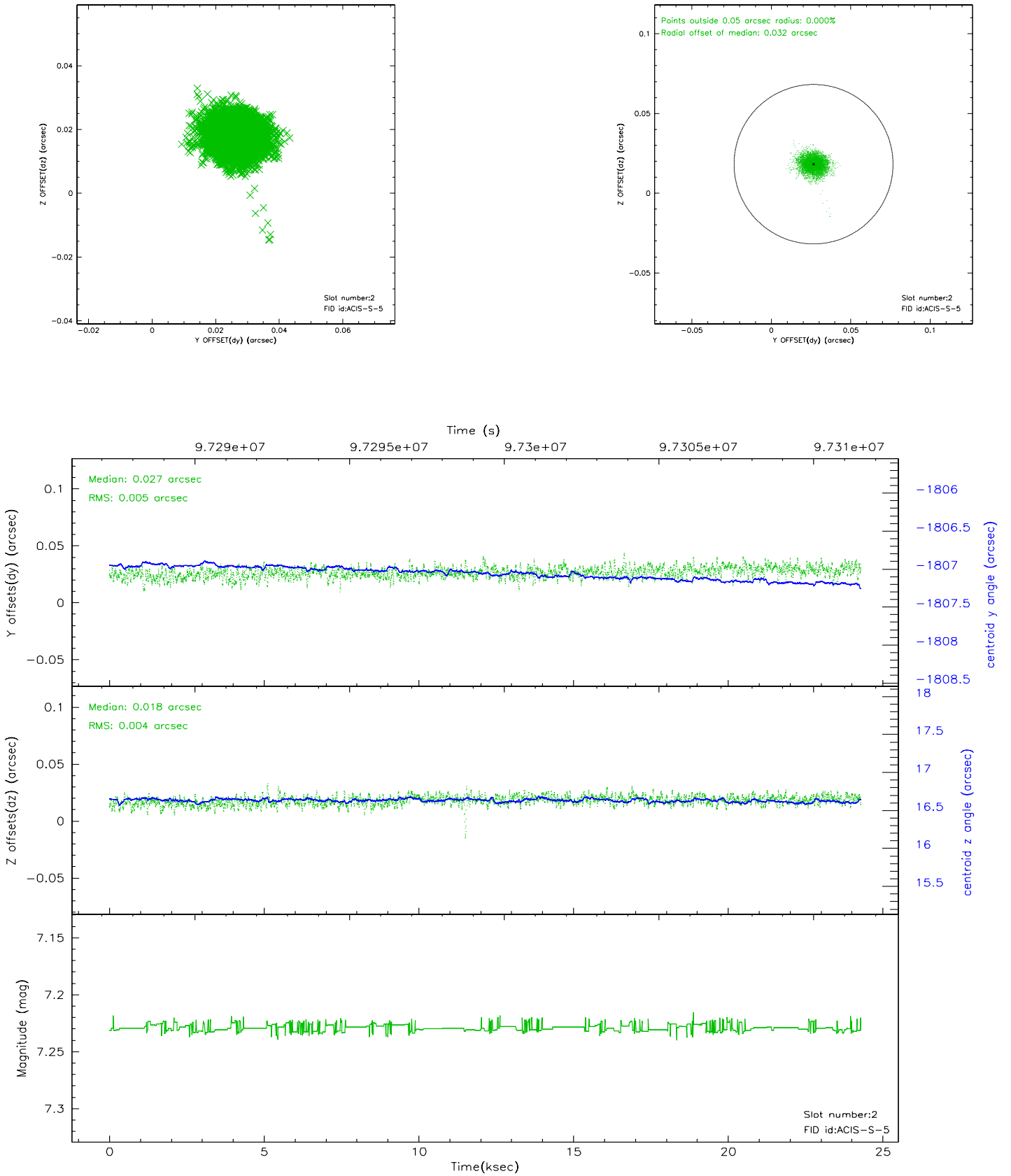
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.11.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	22.599

A.2 Comments

Charge time for this ObsId remains at original value of 22.599 ks, although

with the current processing the charge time would have been 14.601 ksec.

The difference is due to improved accounting for telemetry saturation resulting in a large number of dropped exposures.

Window constraint met.