

V&V Reference Report

L2 ASCDS Version : 7.6.10

Observation 1902 - L2 Version 001
Chandra X-Ray Center

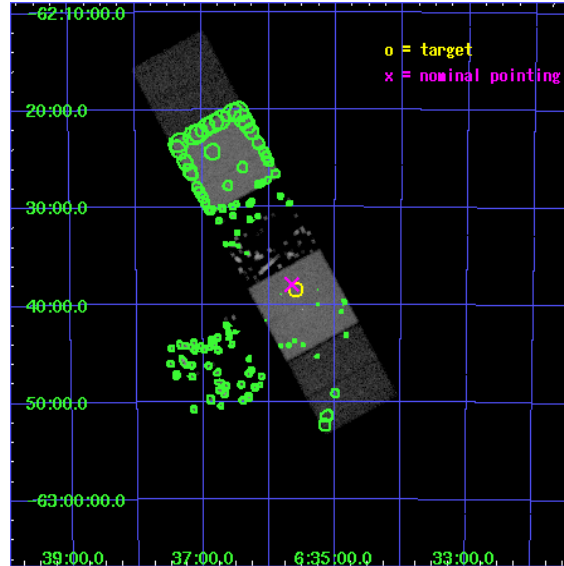
L2 Processing Date : Jan 13 2007

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1 Front

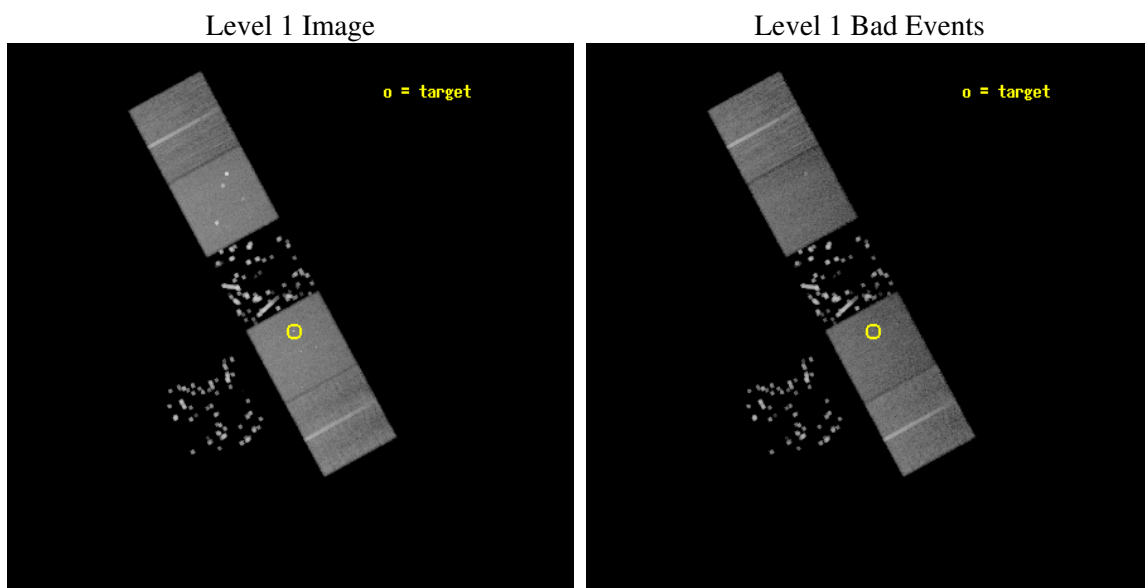
seq_num	300050
obs_id	1902
title	STUDYING THE OLD CLASSICAL NOVA SHELLS IN X-RAYS II : THE SHELL OF CLASSICAL NOVA PICTORIS 1925 (RR PIC)
observer	Assoc. Prof. Solen Balman
object	RR PIC
dtcycle	0
cycle	P
ra_targ	98.900417
dec_targ	-62.640083
ra_nom	98.913666324079
dec_nom	-62.632486123967
roll_nom	61.487198701228
revision	2
ontime	24873.600023165
livetime	24558.635522588
ontime3	24873.600023165
ontime4	24873.600023165
ontime5	24873.600023165
ontime6	24873.600023165
ontime7	24873.600023165
ontime8	24873.600023165
l2events	271483



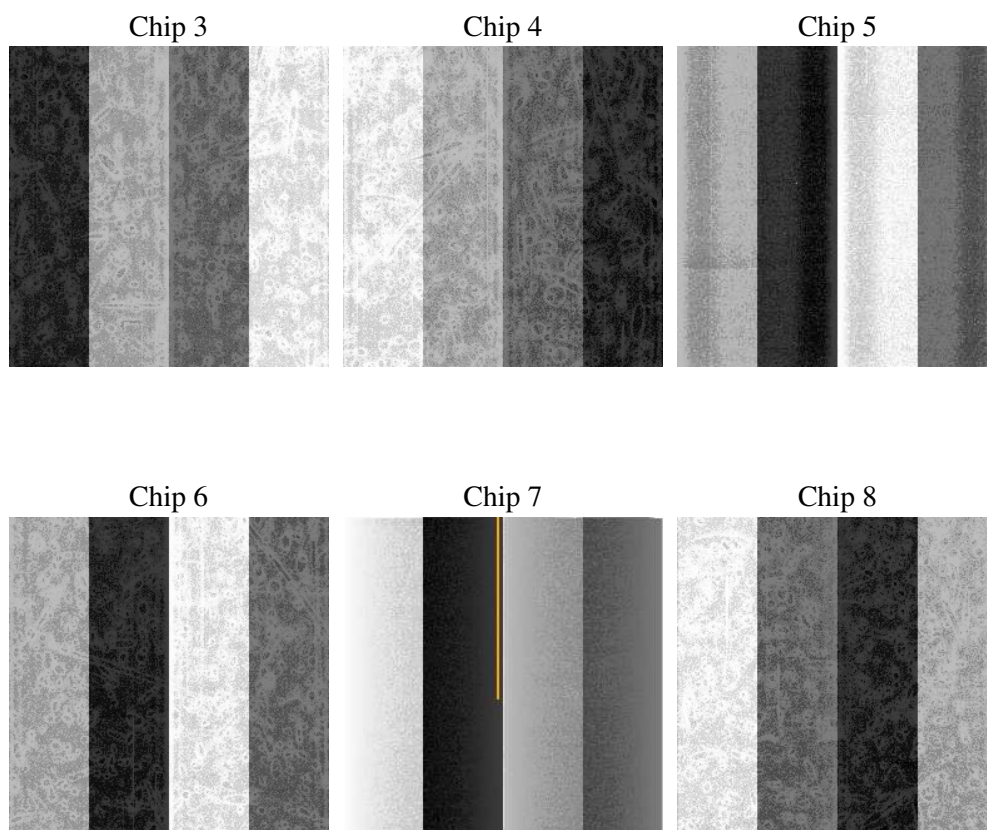
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.3.0
date	2007-01-13T11:19:52
revision	2

sched_exp_time	25000.000000
ontime	24873.600023165
ontime3	24873.600023165
ontime4	24873.600023165
ontime5	24873.600023165
ontime6	24873.600023165
ontime7	24873.600023165
ontime8	24873.600023165
l1events	946698

2.1.4 Events

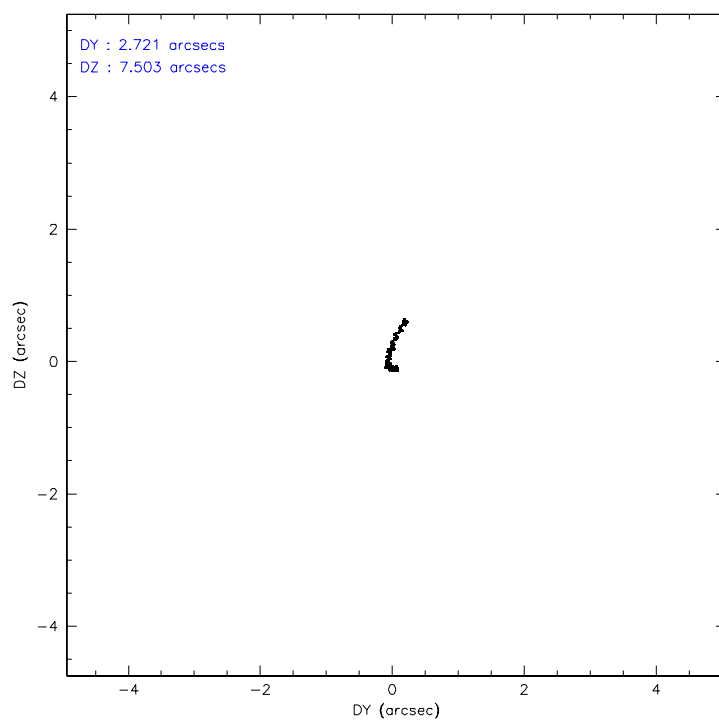
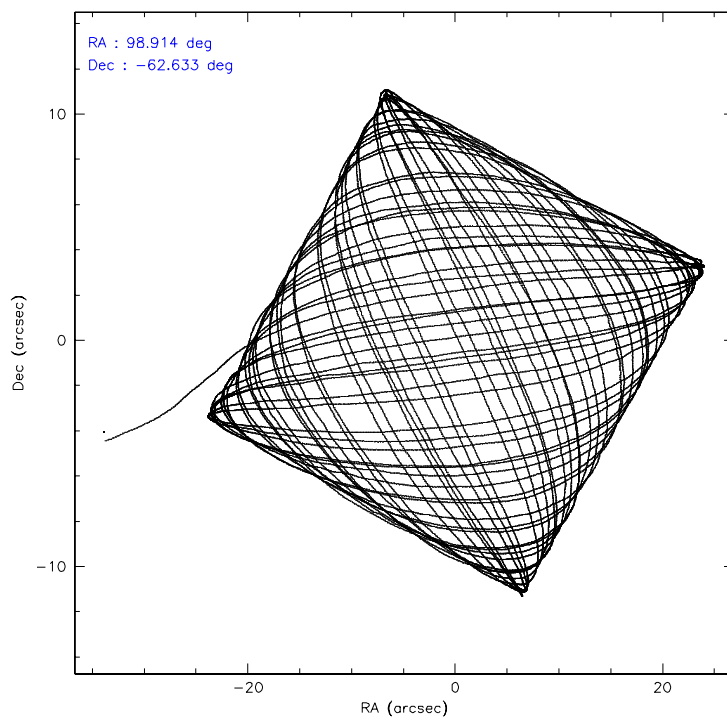
	ccd 3	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44463	175958	234135	77225	215635	199282
rejected events	33320	153920	117725	57532	113975	153012
rejected %	74%	87%	50%	74%	52%	76%

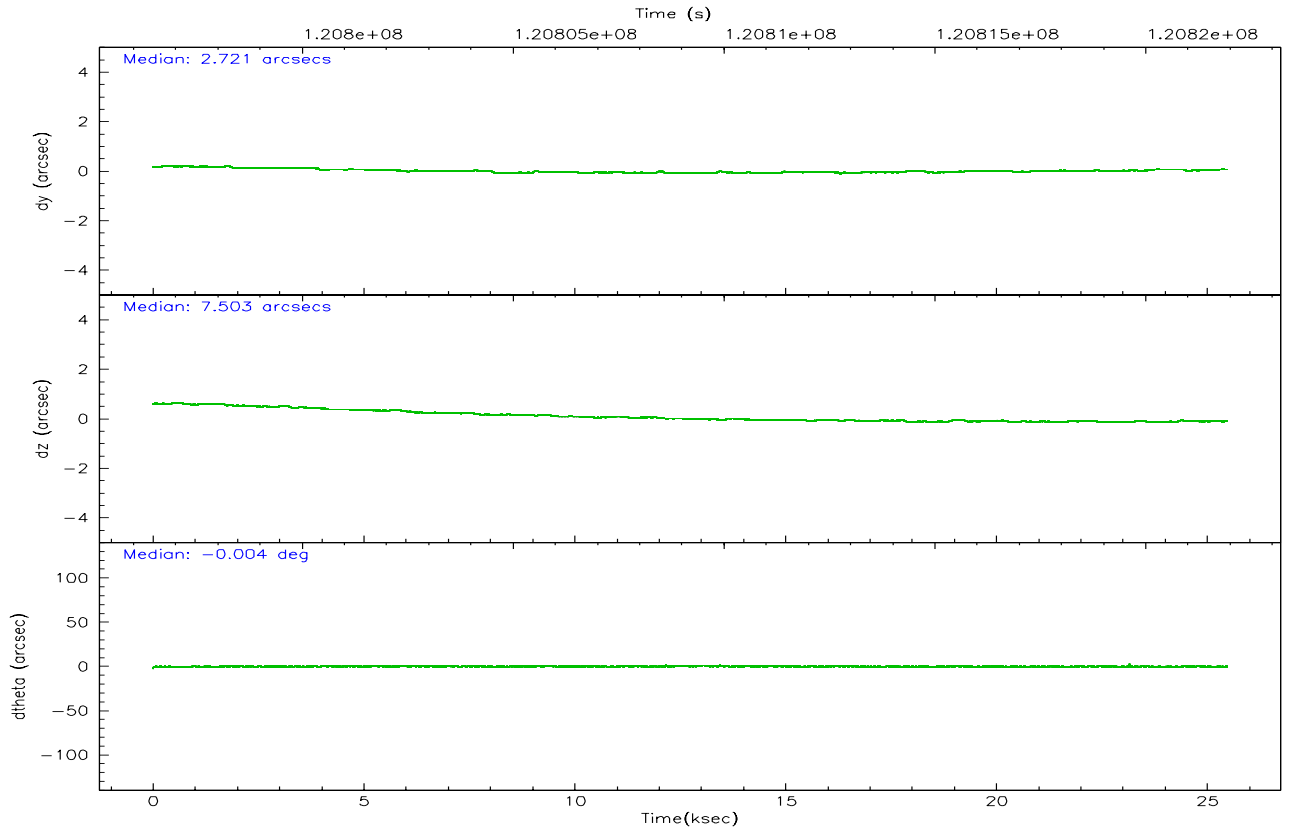
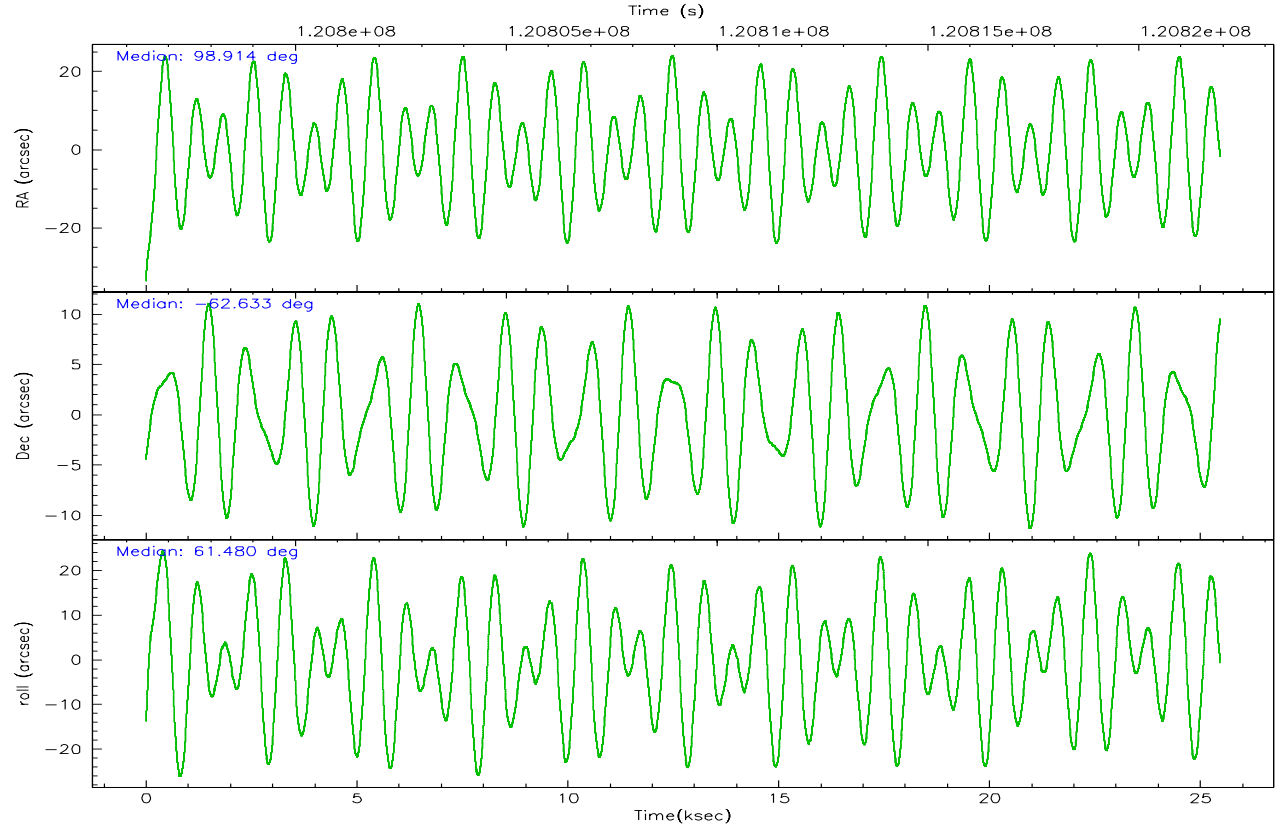
	ccd 3	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	1325	9862	15779	2584	10967	16533
	2%	5%	6%	3%	5%	8%
grade 1 events	2096	91	529	4082	210	125
	4%	0%	0%	5%	0%	0%
grade 2 events	3369	5215	33242	5759	19902	9263
	7%	2%	14%	7%	9%	4%
grade 3 events	2418	1780	5069	4216	9058	5082
	5%	1%	2%	5%	4%	2%
grade 4 events	1718	1687	5091	3070	9022	4656
	3%	0%	2%	3%	4%	2%
grade 5 events	5386	5643	16494	9368	18886	8368
	12%	3%	7%	12%	8%	4%
grade 6 events	2314	3501	57254	4065	52726	10741
	5%	1%	24%	5%	24%	5%
grade 7 events	25837	148179	100677	44081	94864	144514
	58%	84%	42%	57%	43%	72%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-345678	ACIS-345678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	98.915901	98.91366632407889	Subarray requested	NONE	NONE
Pointing Dec	-62.659742	-62.63248612396728	Alternating exposures requested	N	N
Pointing Roll	61.332557	61.48719870122752	Primary exposure time	0.000000	3.2
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	120796931.184000	120795832.50701			
Observation start date	2001-10-30T02:41:07	2001-10-30T02:23:52			
Observation end time	120821931.184000	120822539.90807			
Observation end date	2001-10-30T09:37:47	2001-10-30T09:48:59			
Read mode	TIMED	TIMED			

2.3 Aspect



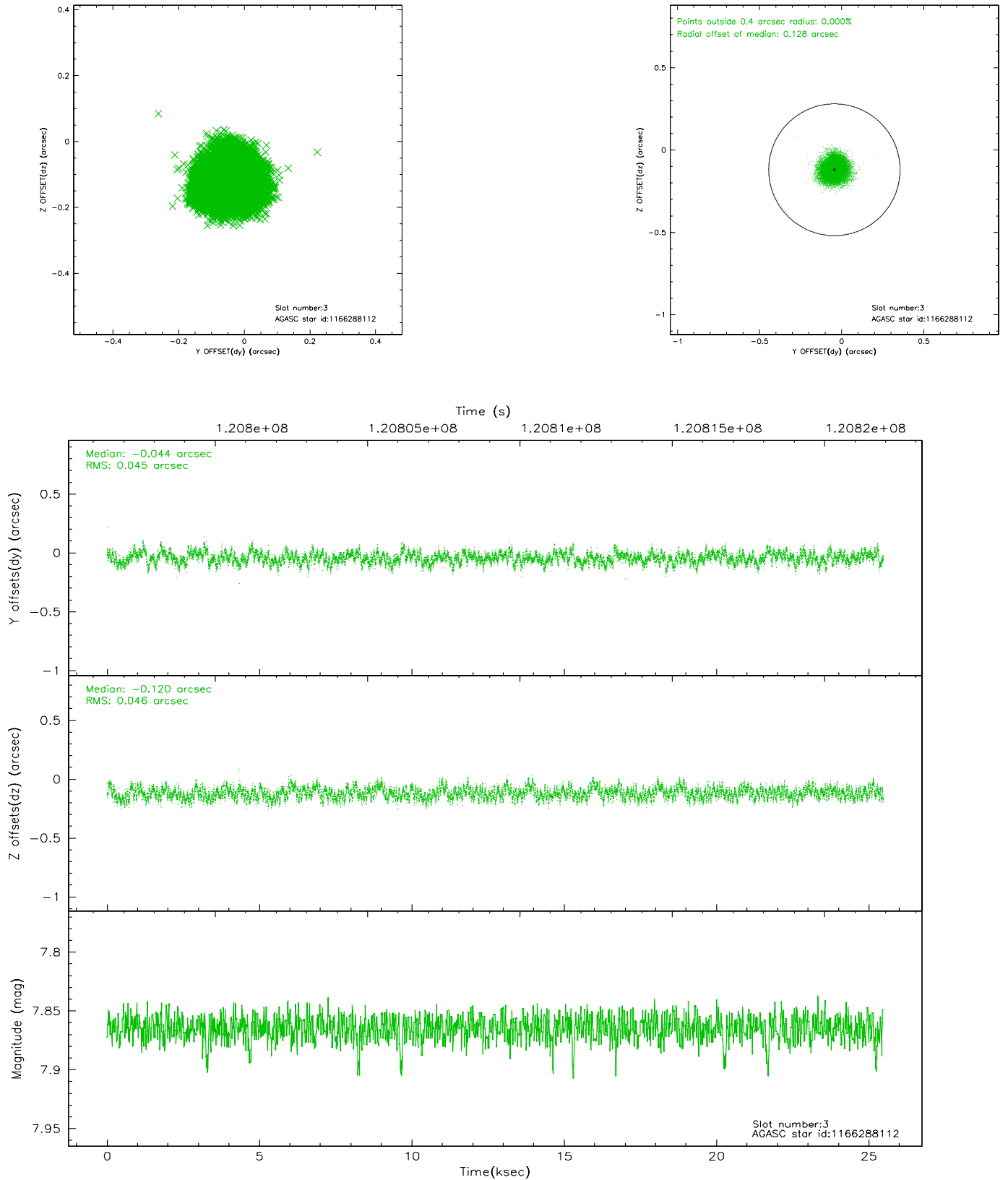


Slot Statistics

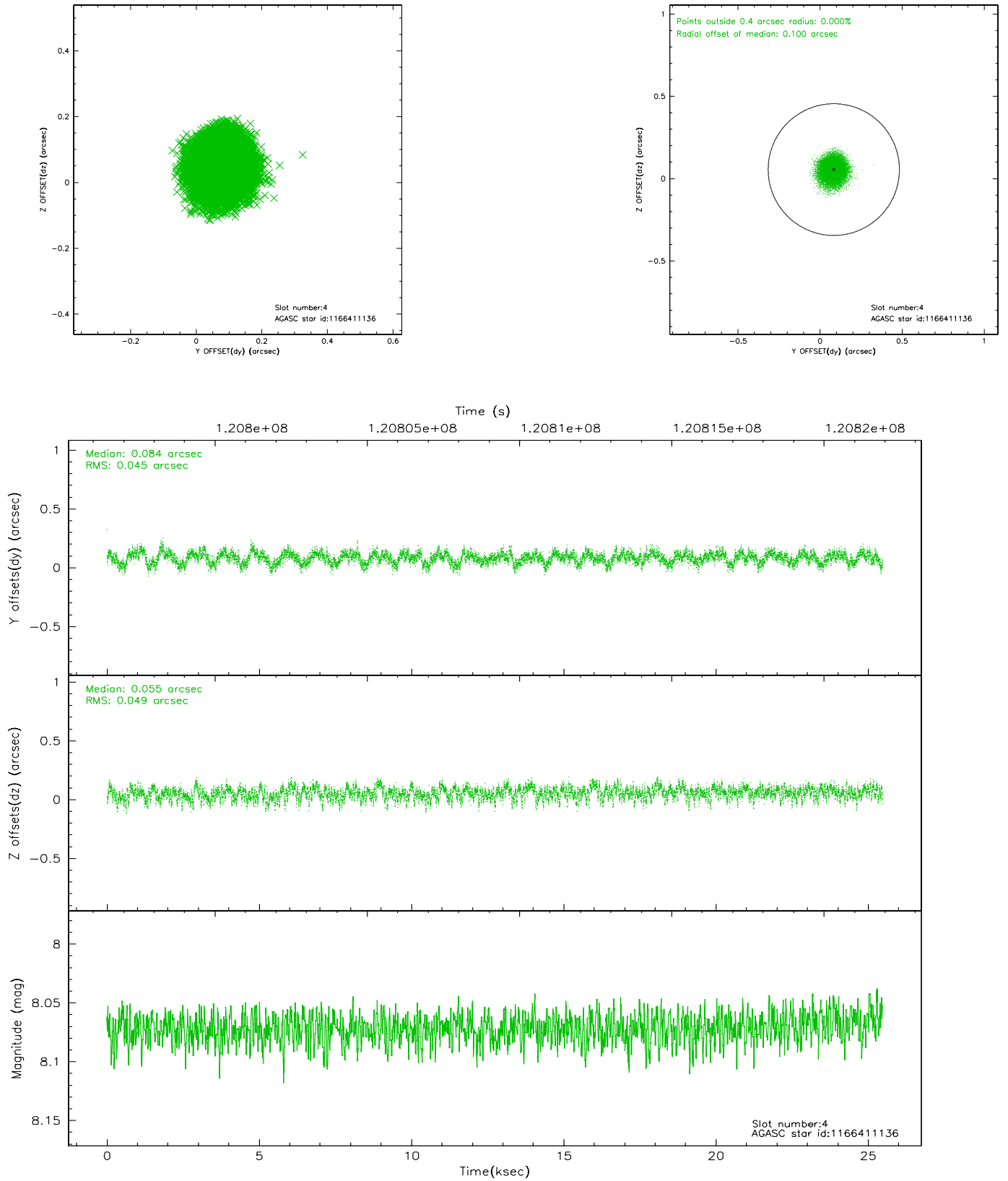
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.19	6213	0.005	-0.012	0.012	0.031	0.000000	0.000000	940.63	-1724.40
1	FID	ACIS-S-5	7.24	6213	0.043	0.030	0.007	0.011	0.000000	0.000000	-1808.22	173.15
2	FID	ACIS-S-6	7.35	6213	-0.070	-0.006	0.015	0.036	0.000000	0.000000	406.05	817.14
3	GUIDE	1166288112	7.86	12419	-0.044	-0.120	0.070	0.107	98.486641	-62.828792	-874.69	326.27
4	GUIDE	1166411136	8.07	12424	0.084	0.055	0.072	0.112	98.695552	-63.262140	-2074.53	-727.29
5	GUIDE	1165769456	9.44	12416	-0.006	0.064	0.111	0.180	98.427341	-61.847829	2163.32	2129.60
6	GUIDE	1166423520	9.01	12425	-0.103	0.120	0.074	0.120	100.239931	-62.723204	828.06	-2036.09
7	GUIDE	1166289240	10.70	12408	0.070	-0.119	0.200	0.331	97.617034	-62.444872	-378.23	2258.54

2.4 Star Slots

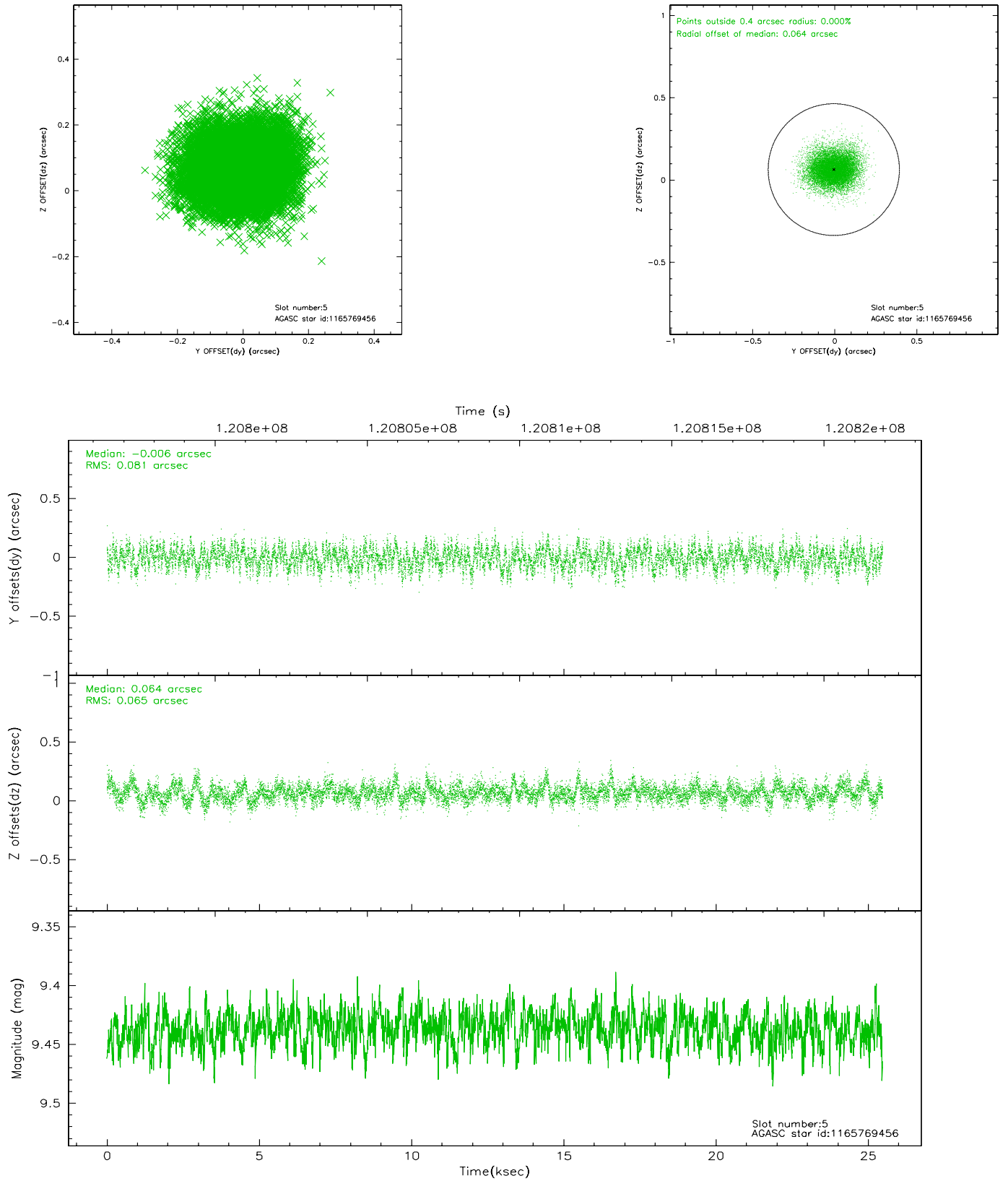
2.4.1 Slot 3



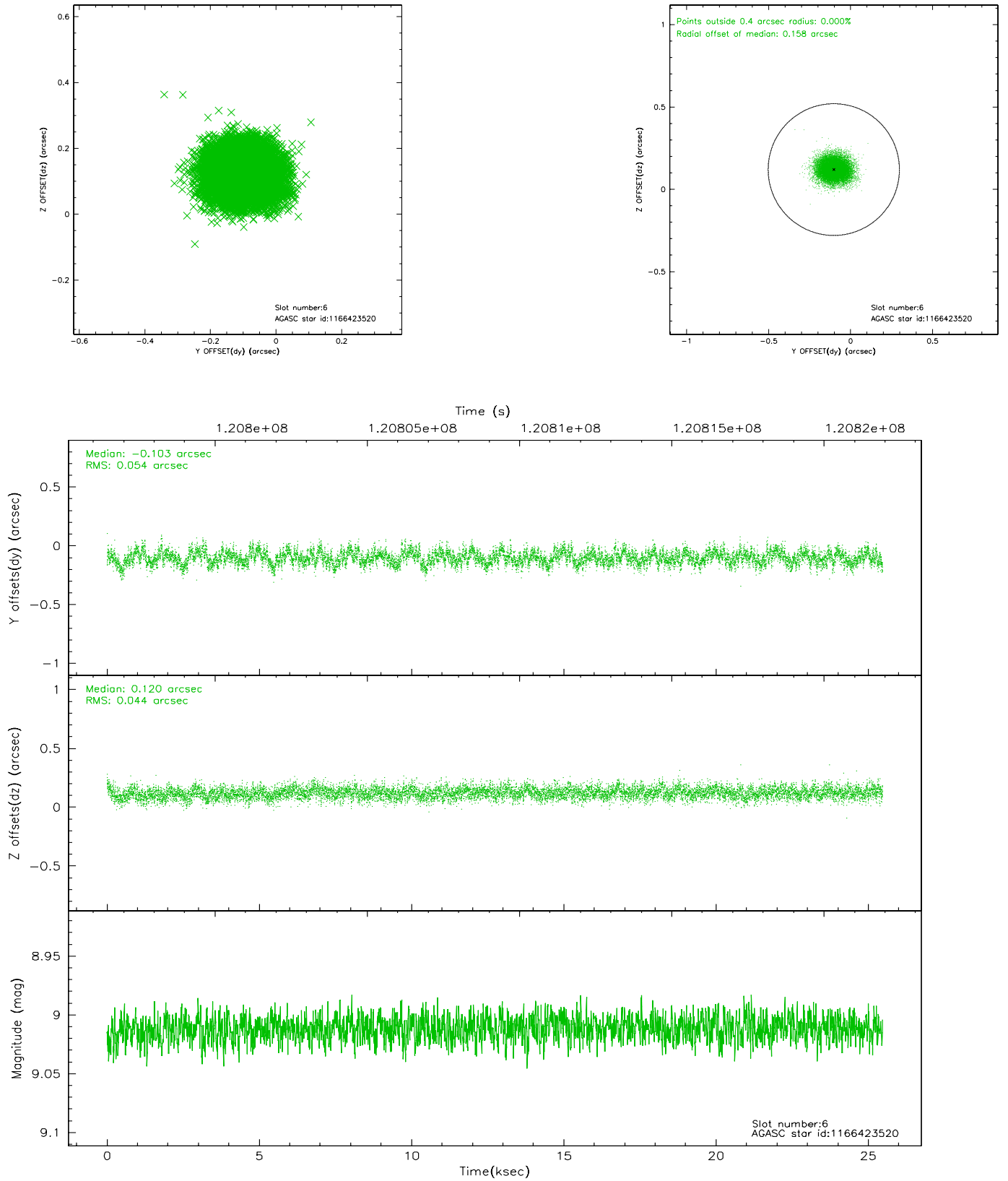
2.4.2 Slot 4



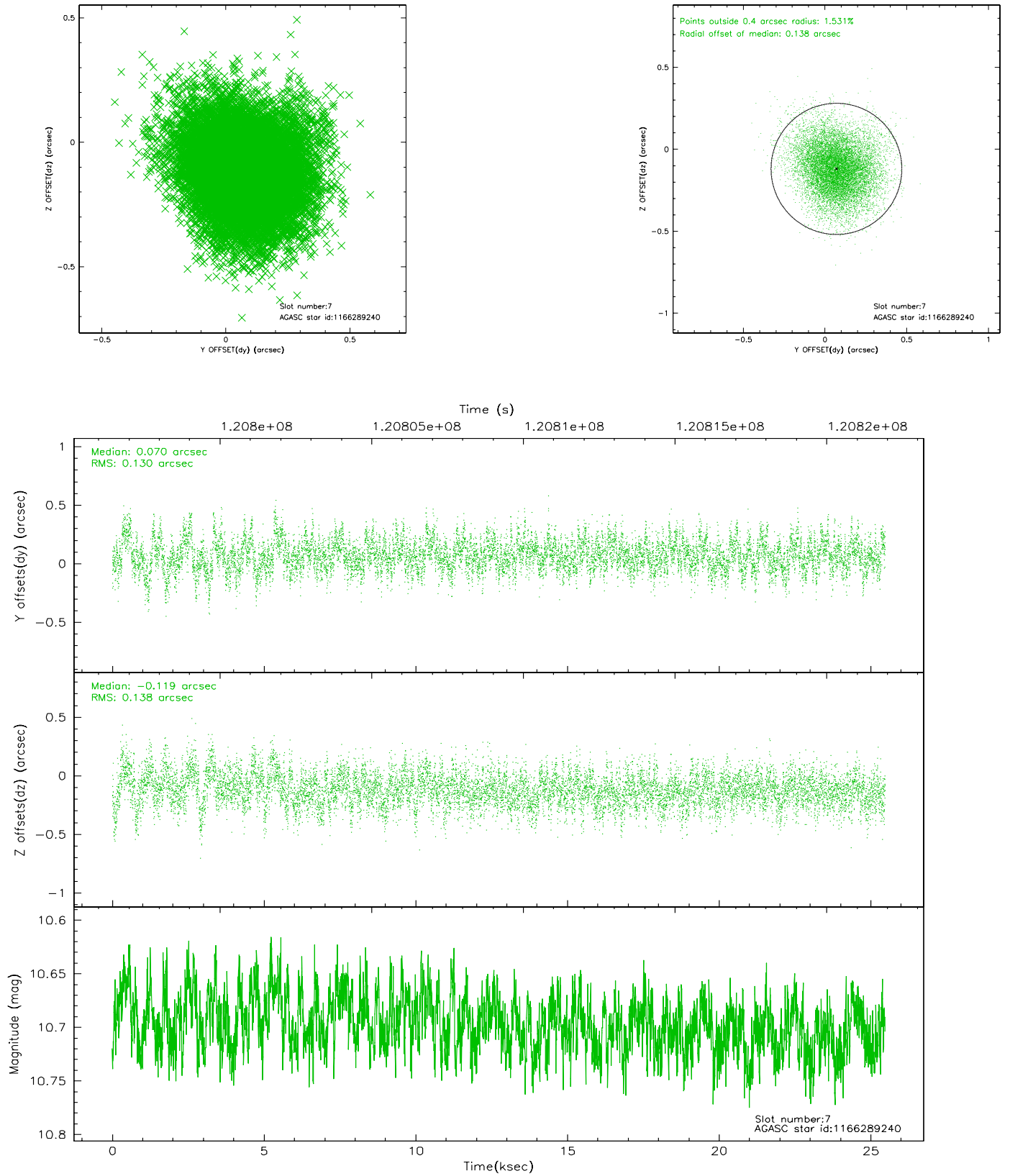
2.4.3 Slot 5



2.4.4 Slot 6

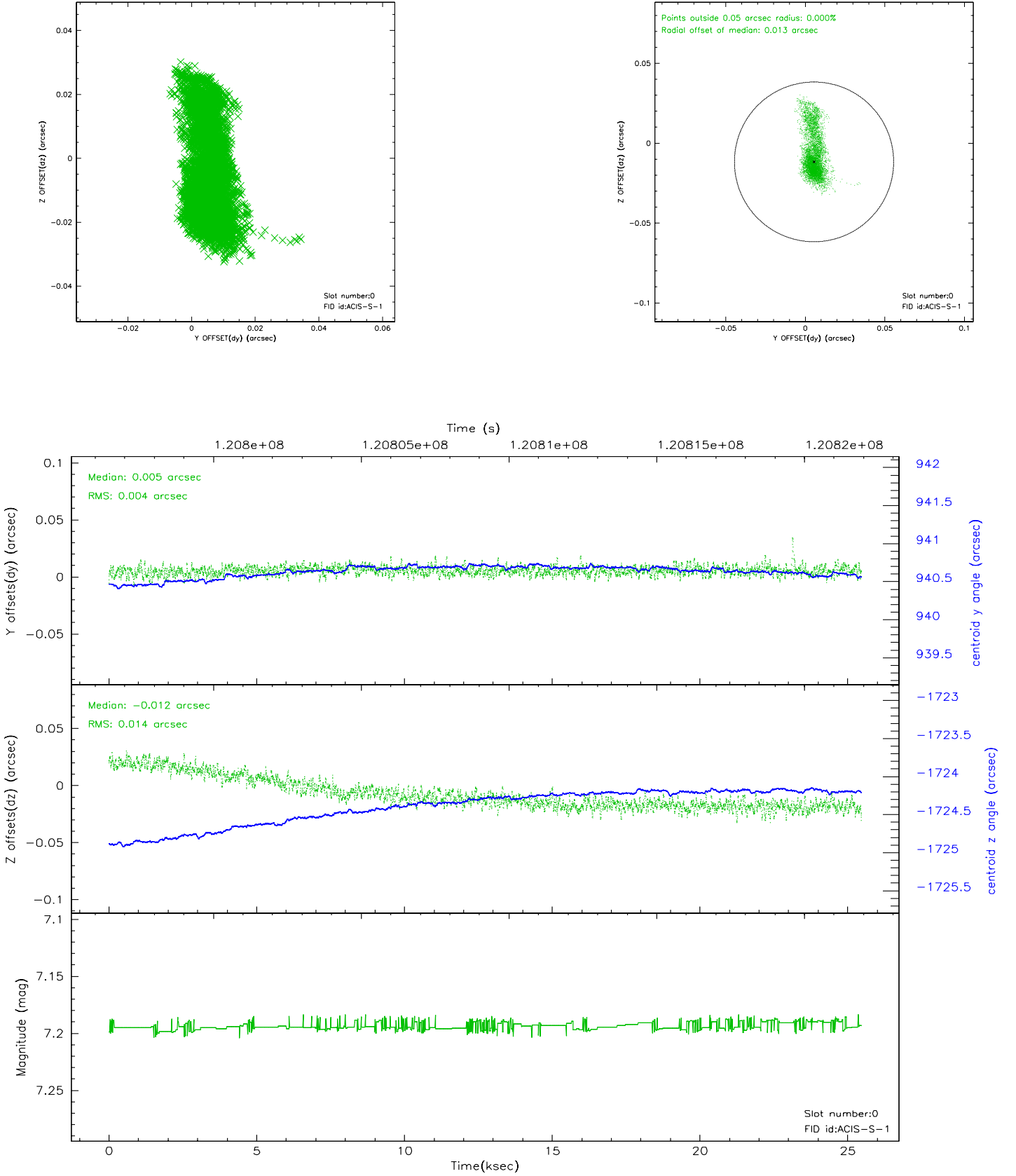


2.4.5 Slot 7

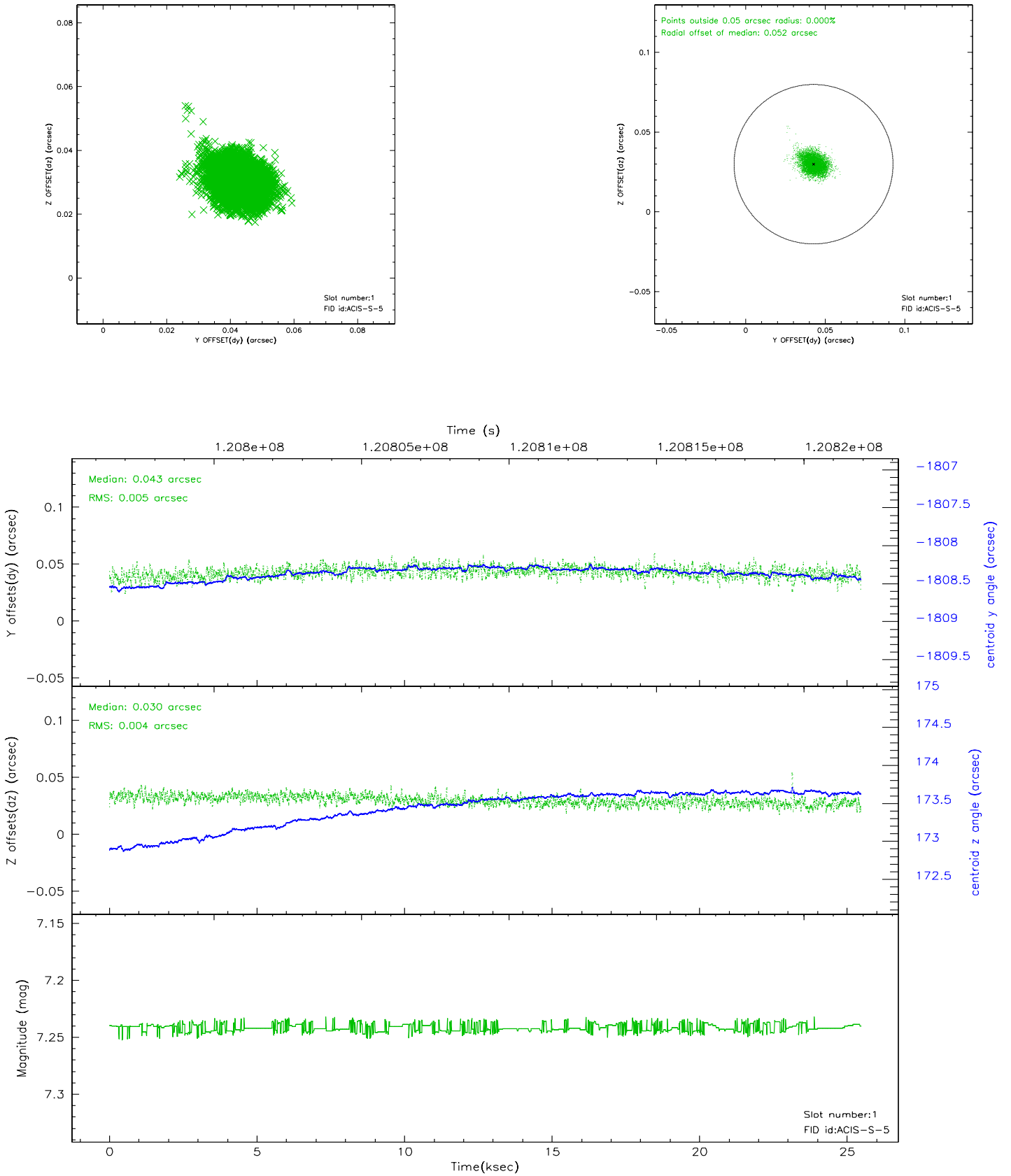


2.5 FID Slots

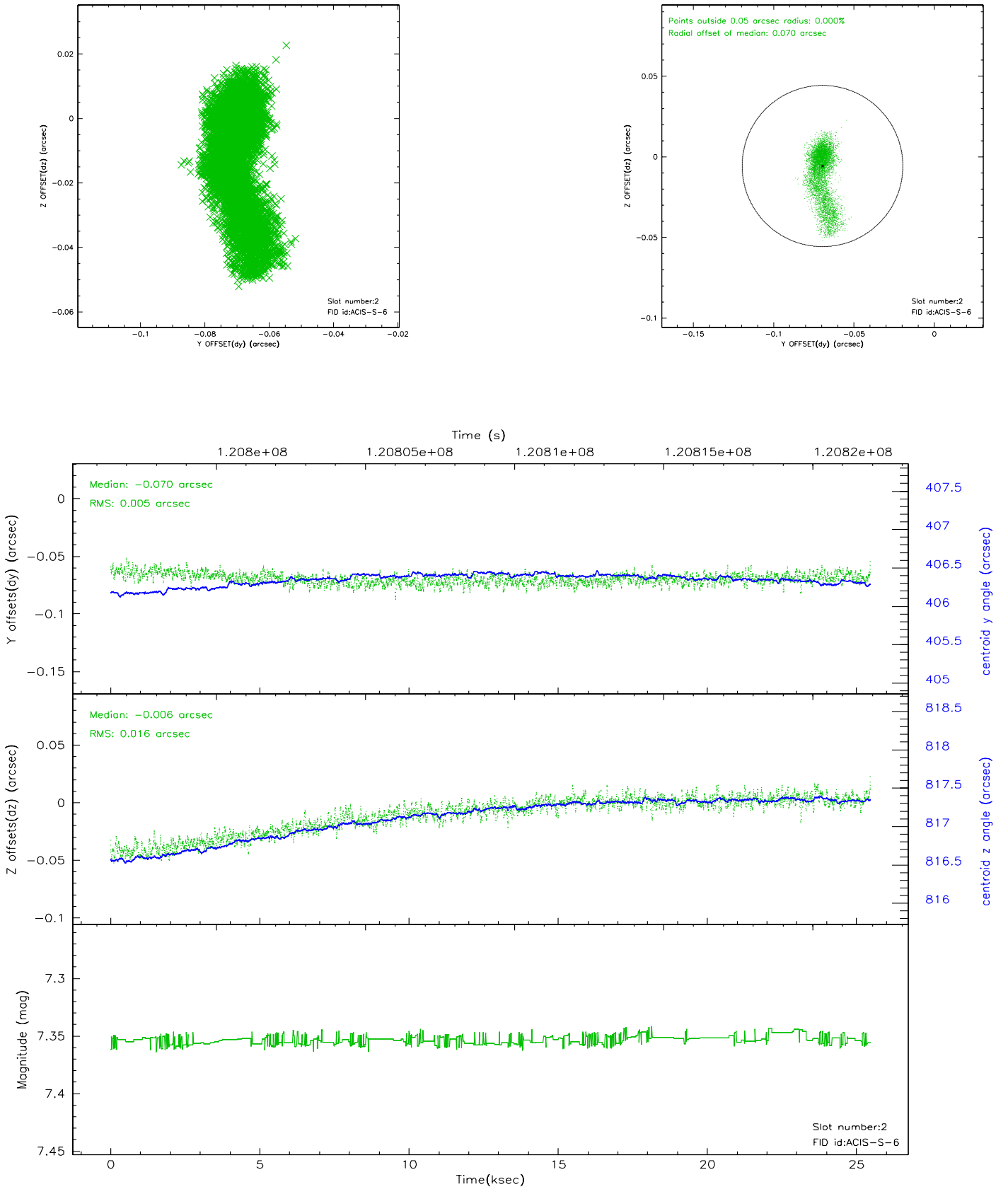
2.5.1 Slot 0



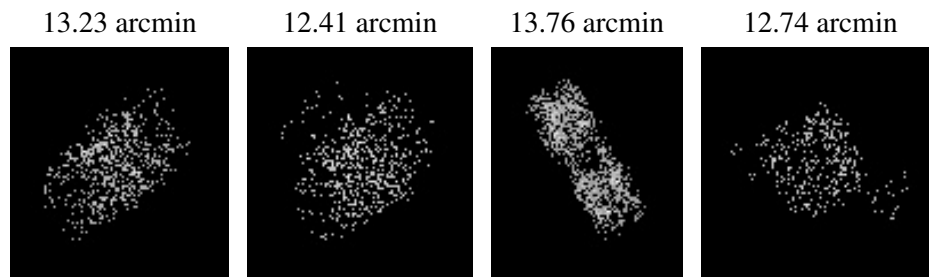
2.5.2 Slot 1



2.5.3 Slot 2



3 Point Sources



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2007.01.24
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.873

A.2 Comments

During this observation, an ACIS Threshold-Plane Anomaly occurred. The flight s/w is intended to delay 'start events' until after 'end bias dump'. For some unknown reason, it occasionally fails to do so, and if the overlap lasts for more than a minute or so, one or more FEPs experience a firmware latch-up that renders them useless until they are power cycled. The anomaly occurred for chips 3 and 6 only. No event data were recorded for these chips. The target did not fall on one of the affected chips.

A high radiation environment during the last 4 ksec of this observation caused
an elevated count rate during that period.