

# V&V Reference Report

## L2 ASCDS Version : 7.6.8.1

Observation 3294 - L2 Version 001  
Chandra X-Ray Center

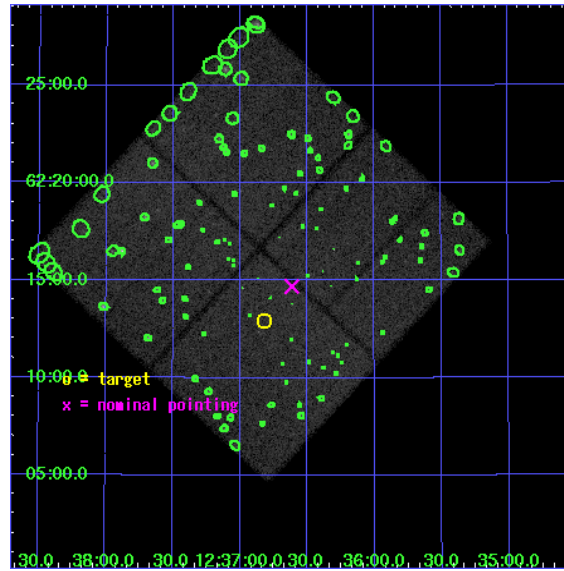
L2 Processing Date : Sep 3 2006

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# 1 Front

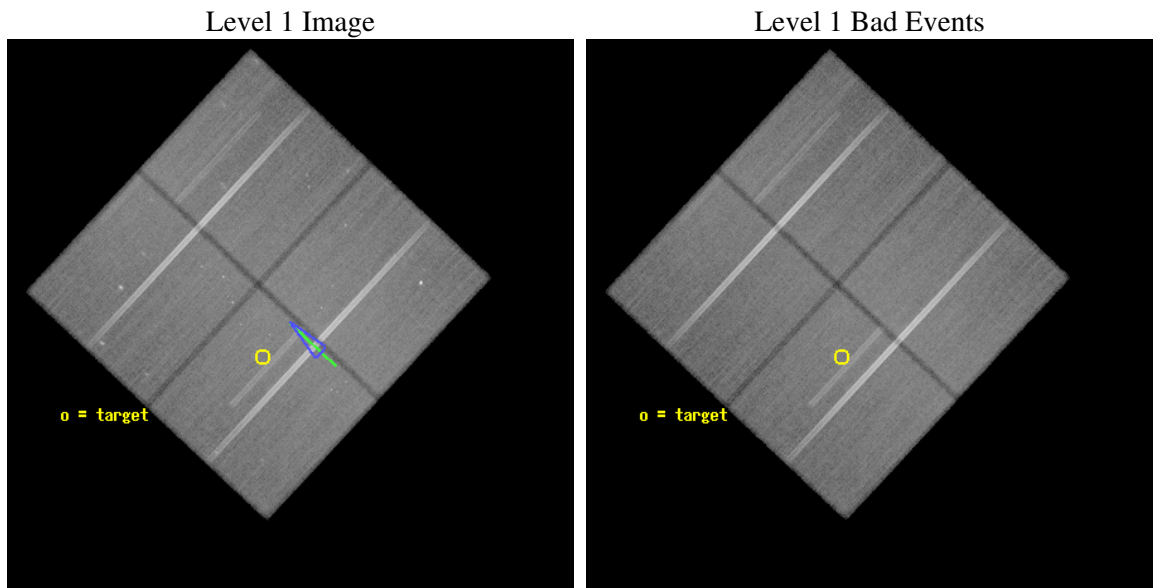
seq_num	900133
obs_id	3294
title	THE CHANDRA SURVEY OF THE HUBBLE DEEP FIELD NORTH AREA: A PUBLIC RESOURCE FOR THE PRESENT AND FUTURE OF X-RAY ASTRONOMY
observer	Prof. William Brandt
object	HDF-N
dtcycle	0
cycle	P
ra_targ	189.205833
dec_targ	62.216111
ra_nom	189.15368519991
dec_nom	62.244930131904
roll_nom	133.13133174948
revision	2
ontime	172688.39479665
livetime	170432.09378729
ontime0	172682.11282633
ontime1	172669.54890542
ontime2	172682.11288613
ontime3	172688.39479665
l2events	289178



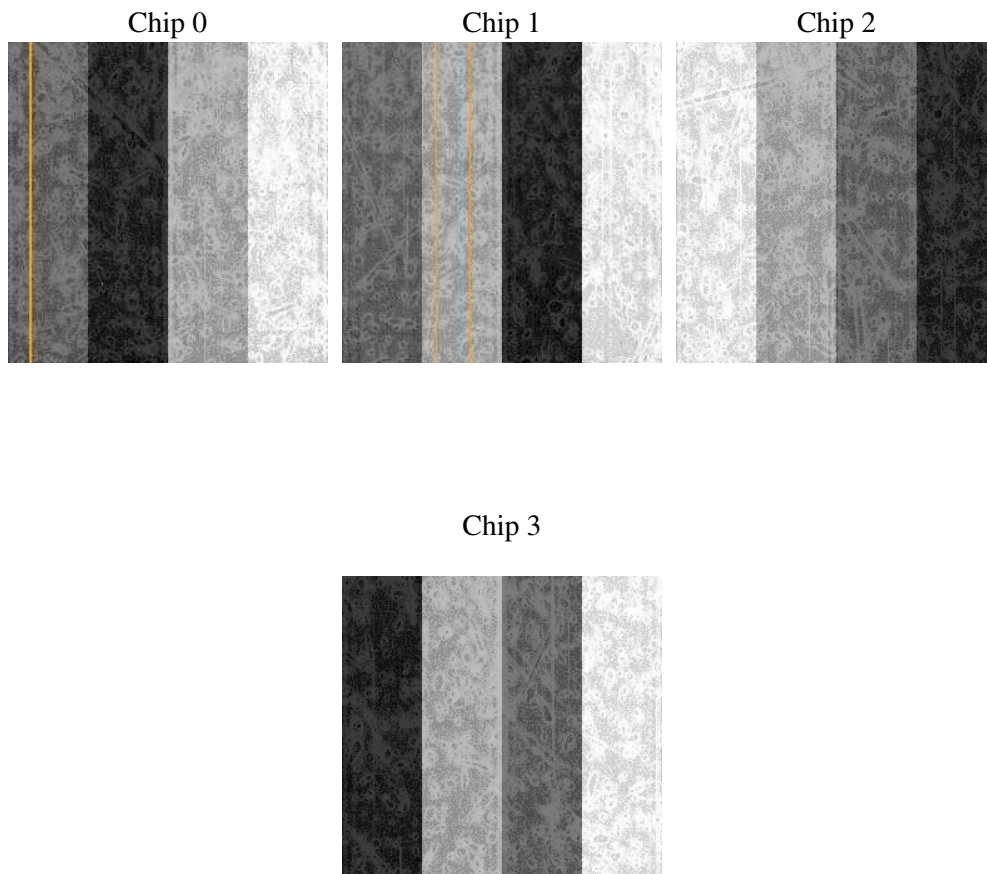
## 2 OBI

### 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	2006-09-03T22:33:37
revision	2

sched_exp_time	172574.847000
ontime	173009.69689231
ontime0	173003.41492198
ontime1	172990.85100107
ontime2	173003.41498178
ontime3	173009.69689231
l1events	3654202

### 2.1.4 Events

	<b>ccd 0</b>	<b>ccd 1</b>	<b>ccd 2</b>	<b>ccd 3</b>
level 1 events	875643	854335	982279	941945
rejected events	786647	759540	892706	859475
rejected %	89%	88%	90%	91%

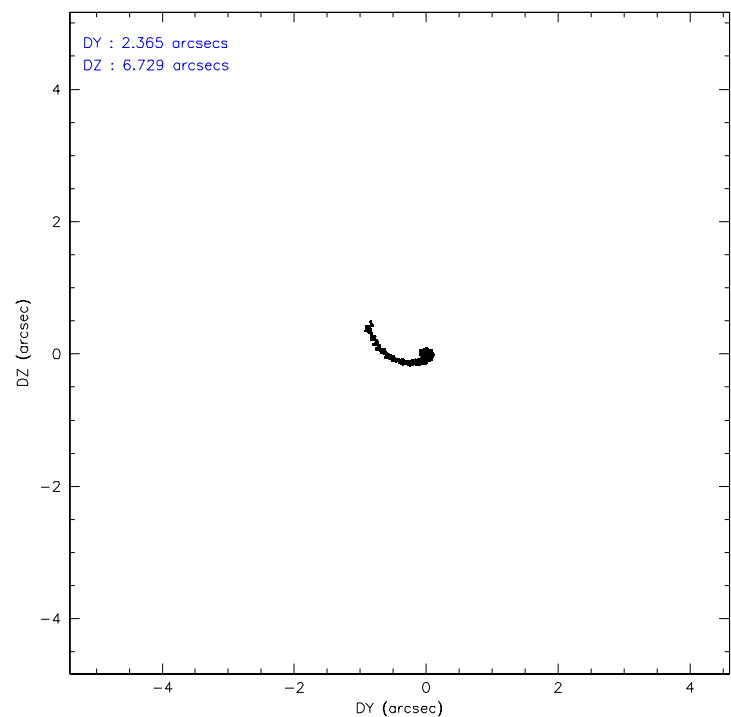
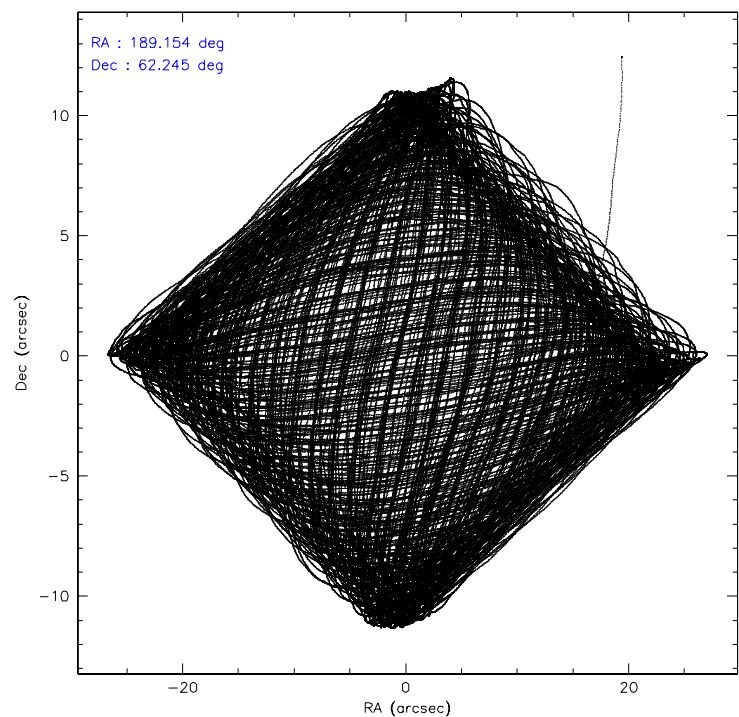
	<b>ccd 0</b>	<b>ccd 1</b>	<b>ccd 2</b>	<b>ccd 3</b>
grade 0 events	32348	34647	35016	30311
	3%	4%	3%	3%
grade 1 events	378	360	430	407
	0%	0%	0%	0%
grade 2 events	20304	19579	19947	17526
	2%	2%	2%	1%
grade 3 events	10715	11638	9608	9533
	1%	1%	0%	1%
grade 4 events	9788	11251	9816	9335
	1%	1%	0%	0%
grade 5 events	25168	27560	23329	28134
	2%	3%	2%	2%
grade 6 events	16013	17852	15365	15933
	1%	2%	1%	1%
grade 7 events	760929	731448	868768	830766
	86%	85%	88%	88%

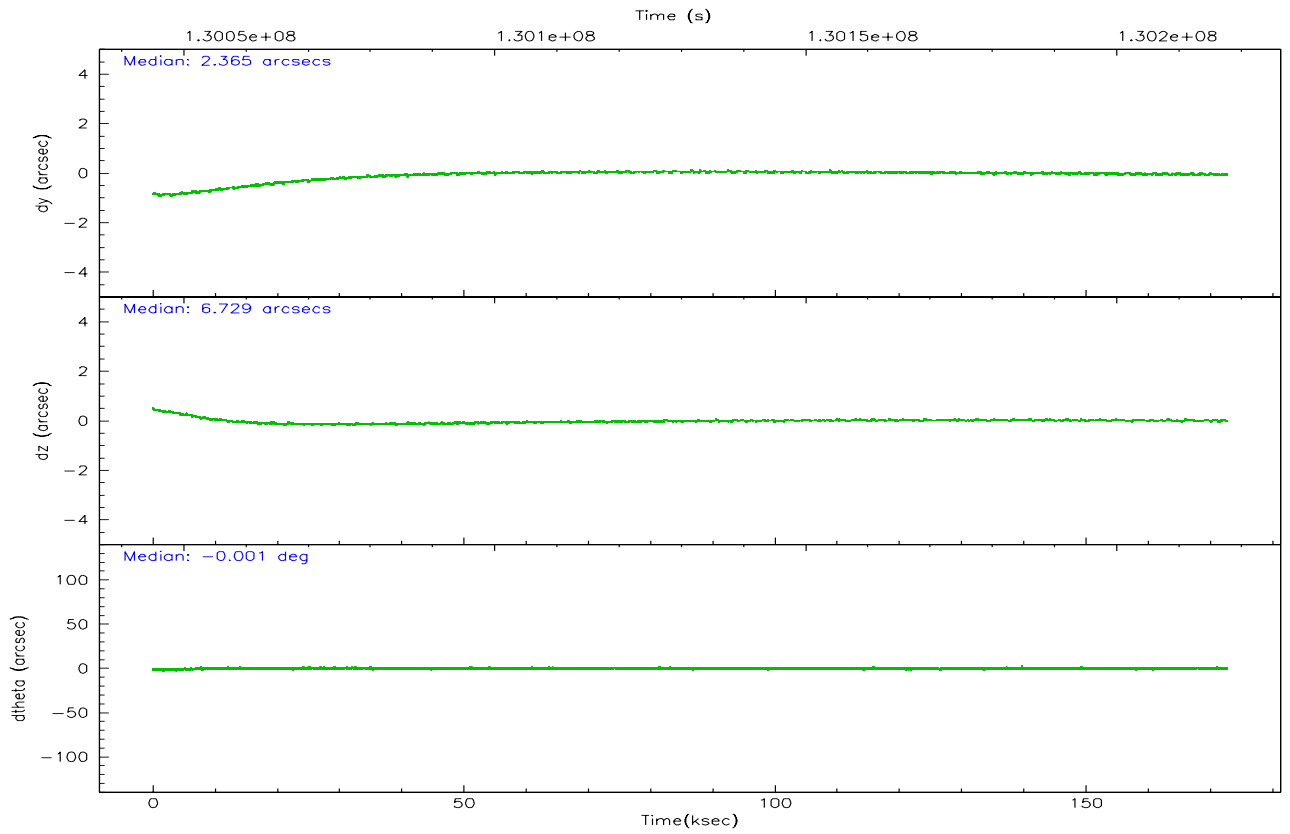
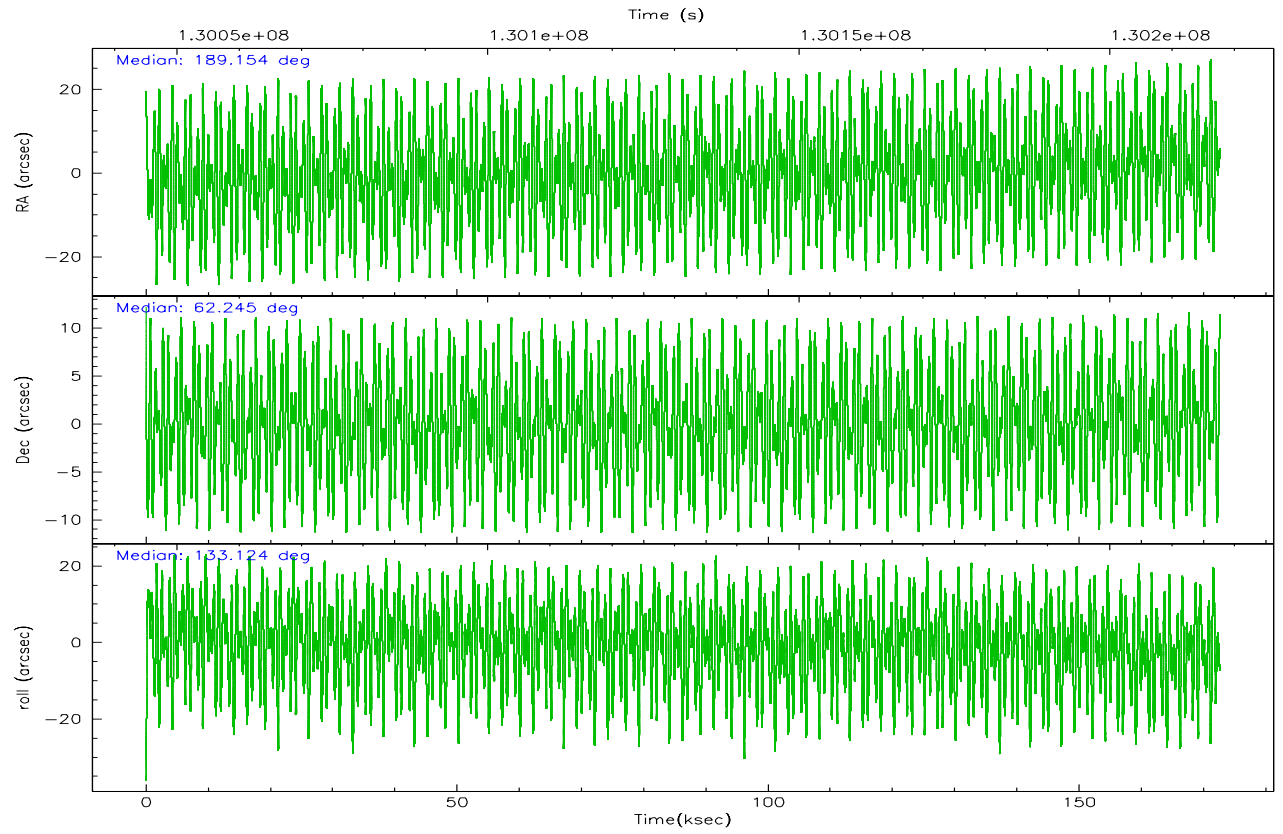


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-0123	ACIS-0123	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	189.210025	189.1536851999112	Alternating exposures requested	N	N
Pointing Dec	62.237031	62.24493013190369	Primary exposure time	0.000000	3.1
Pointing Roll	132.872786	133.1313317494794			
Roll angle	134.000000	134.000000			
Roll tolerance	10.000000	10.000000			
Roll constraint allows 180D rotation	N	N			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-227.712463	-227.7139939163845			
SIM translation stage offset (mm)	-5.88	-5.878459086545149			
Observation start time	130045186.184000	130044127.54041			
Observation start date	2002-02-14T03:38:42	2002-02-14T03:22:07			
Observation end time	130217761.184000	130218076.19743			
Observation end date	2002-02-16T03:34:57	2002-02-16T03:41:16			
Read mode	TIMED	TIMED			

2.3 Aspect



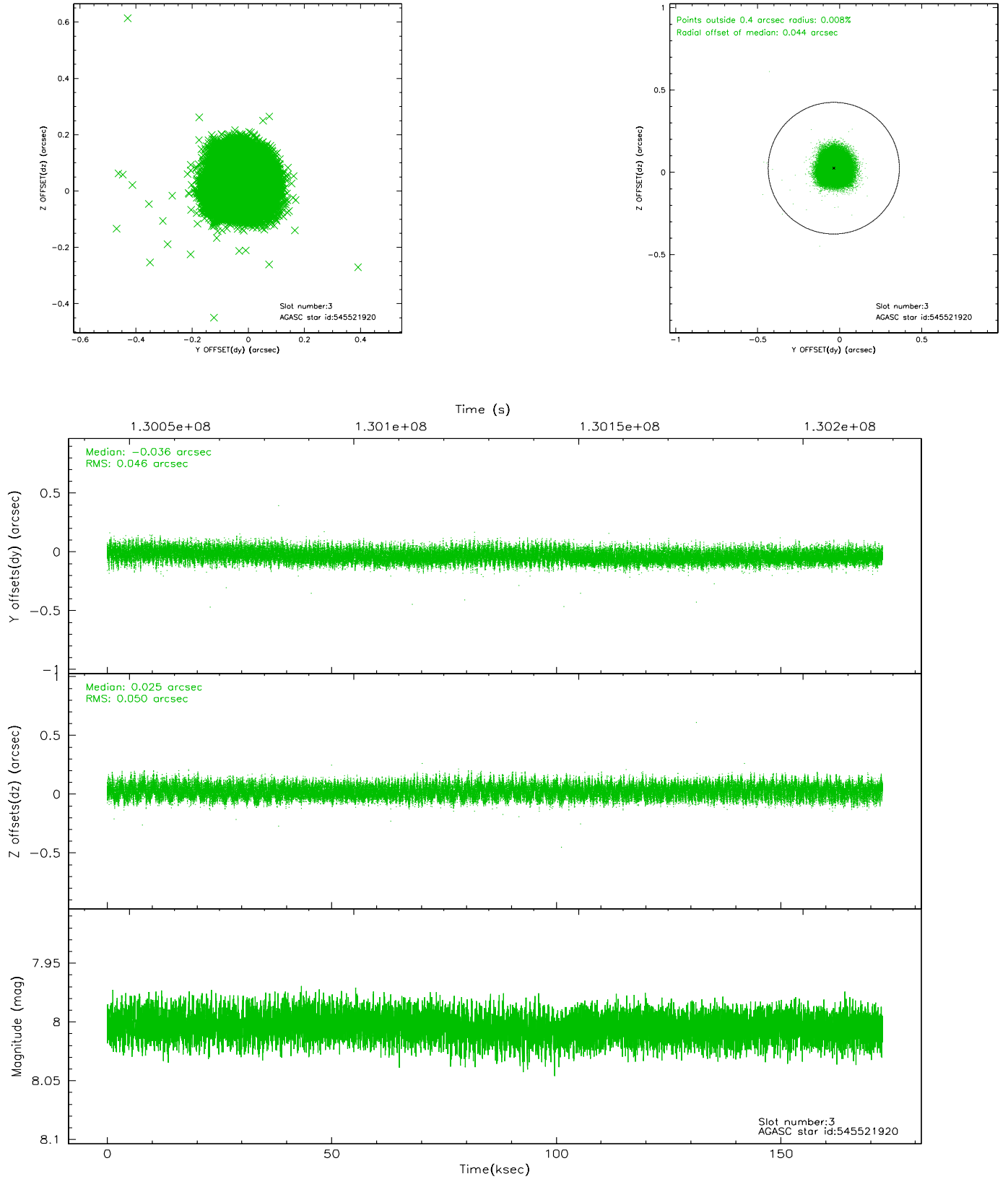


### Slot Statistics

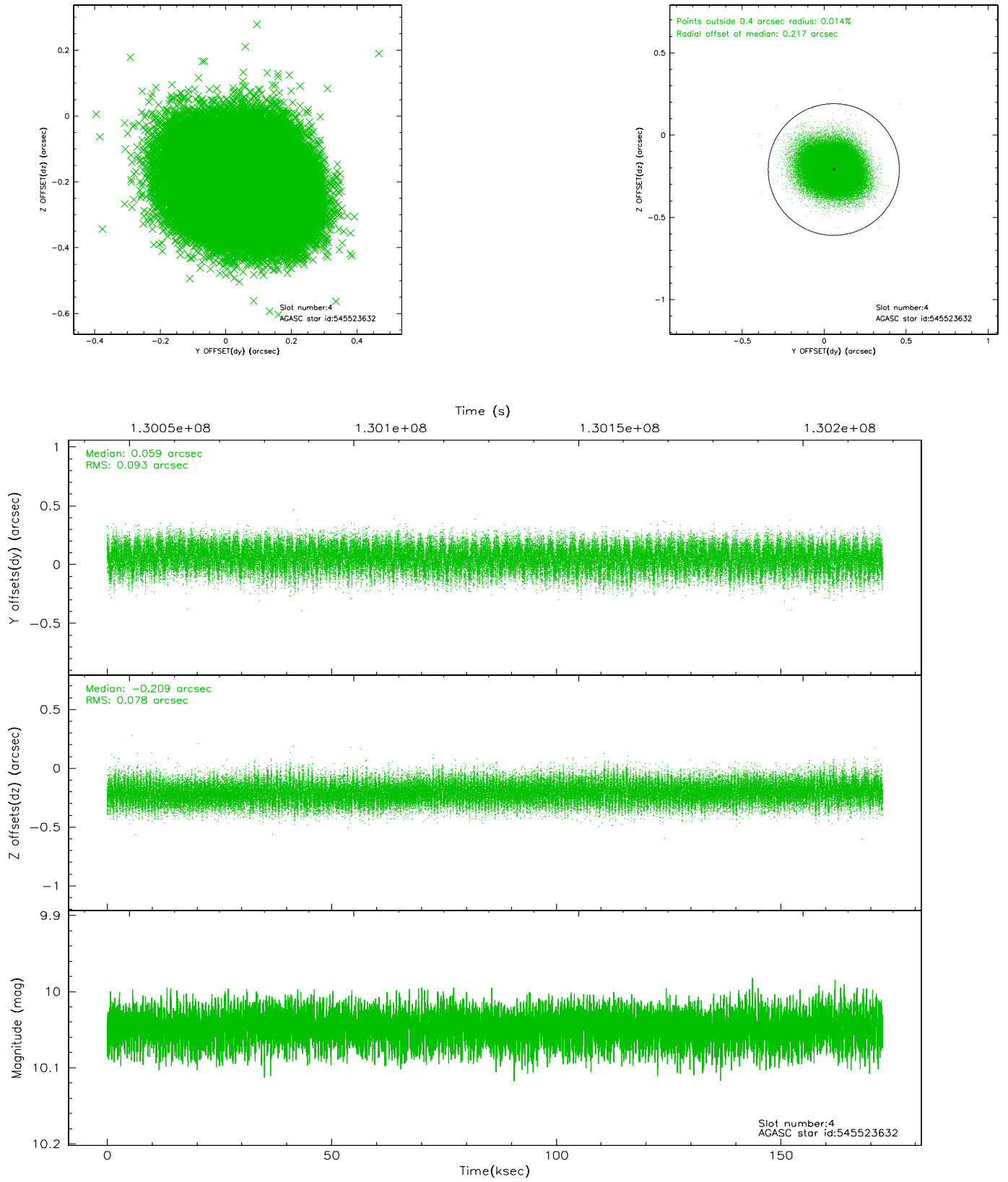
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	42121	0.024	0.032	0.007	0.014	0.000000	0.000000	937.44	-950.73
1	FID	ACIS-I-5	7.24	42116	-0.086	0.073	0.007	0.013	0.000000	0.000000	-1810.82	946.88
2	FID	ACIS-I-6	7.25	42118	-0.029	-0.034	0.008	0.018	0.000000	0.000000	403.09	1591.12
3	GUIDE	545521920	8.00	84226	-0.036	0.025	0.073	0.116	190.203465	62.042567	-1644.11	-761.58
4	GUIDE	545523632	10.05	83954	0.059	-0.209	0.129	0.210	188.952319	61.550910	-1508.83	2003.35
5	GUIDE	545915360	9.30	84127	-0.104	0.123	0.101	0.158	190.127769	62.766153	375.57	-2411.36
6	GUIDE	544605560	10.27	84138	0.042	0.058	0.139	0.233	187.386670	62.313812	2308.87	2017.74
7	GUIDE	545916224	9.60	83508	0.040	0.005	0.107	0.200	188.817359	62.651242	1536.42	-539.92

## 2.4 Star Slots

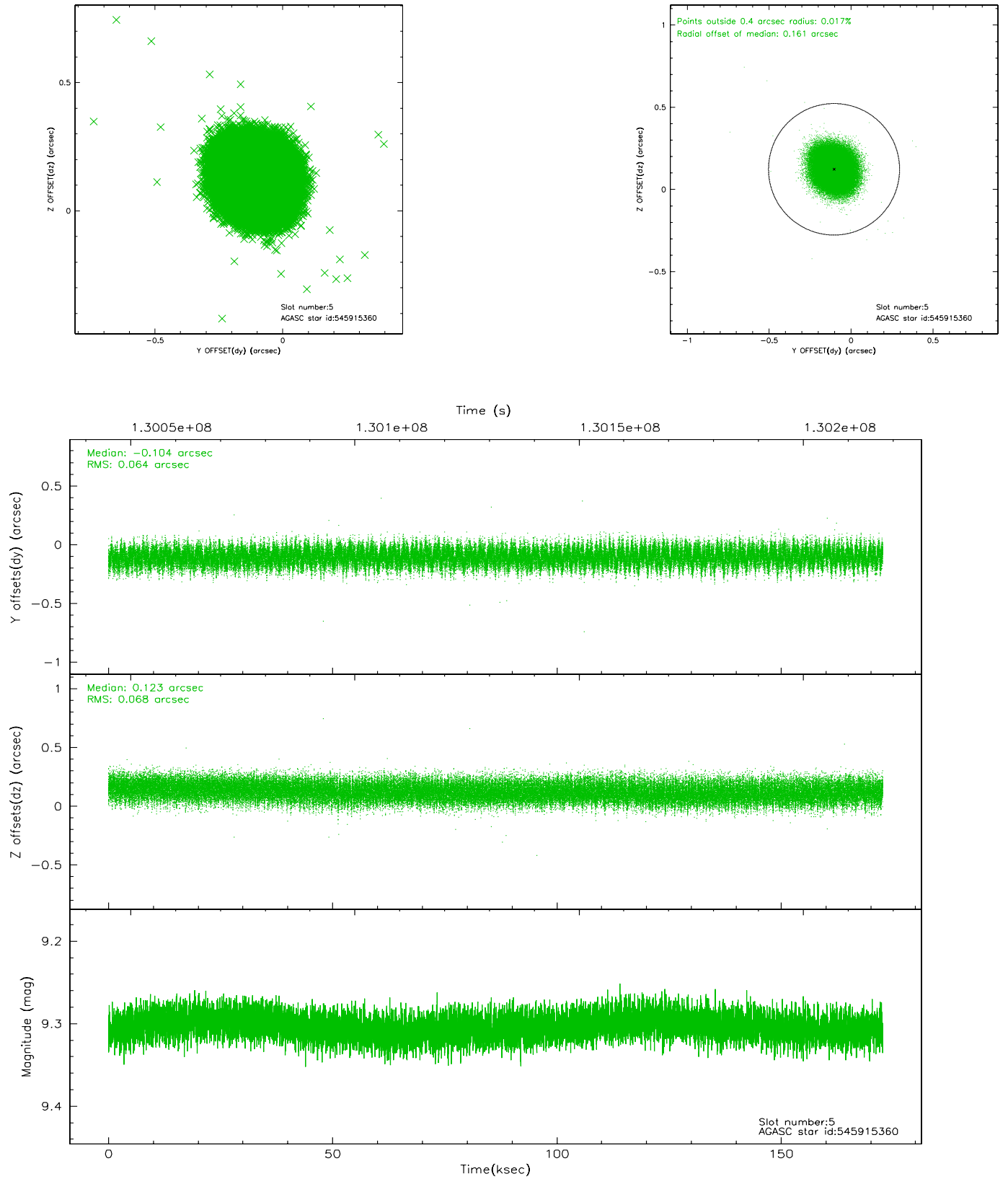
### 2.4.1 Slot 3



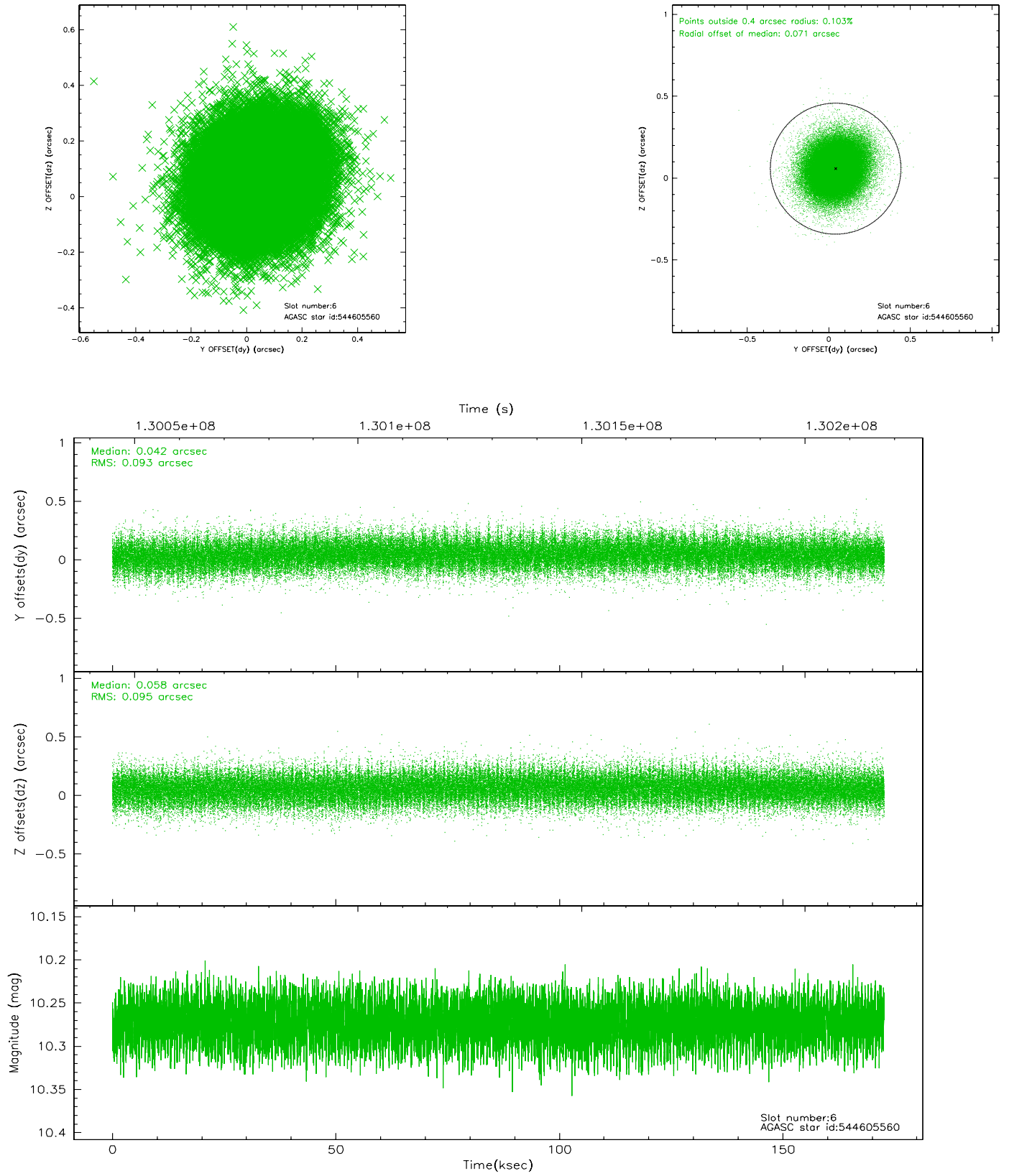
## 2.4.2 Slot 4



### 2.4.3 Slot 5

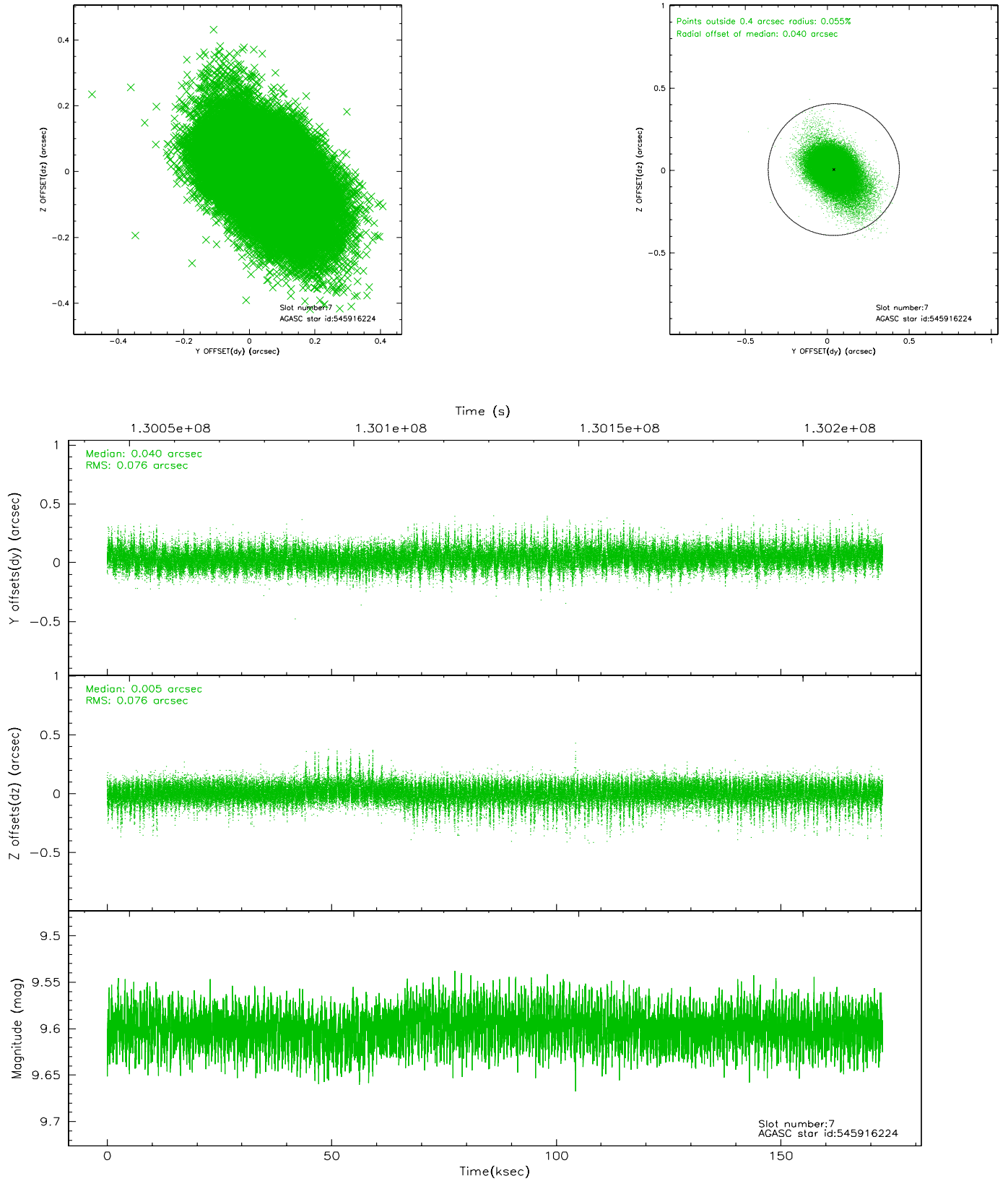


## 2.4.4 Slot 6



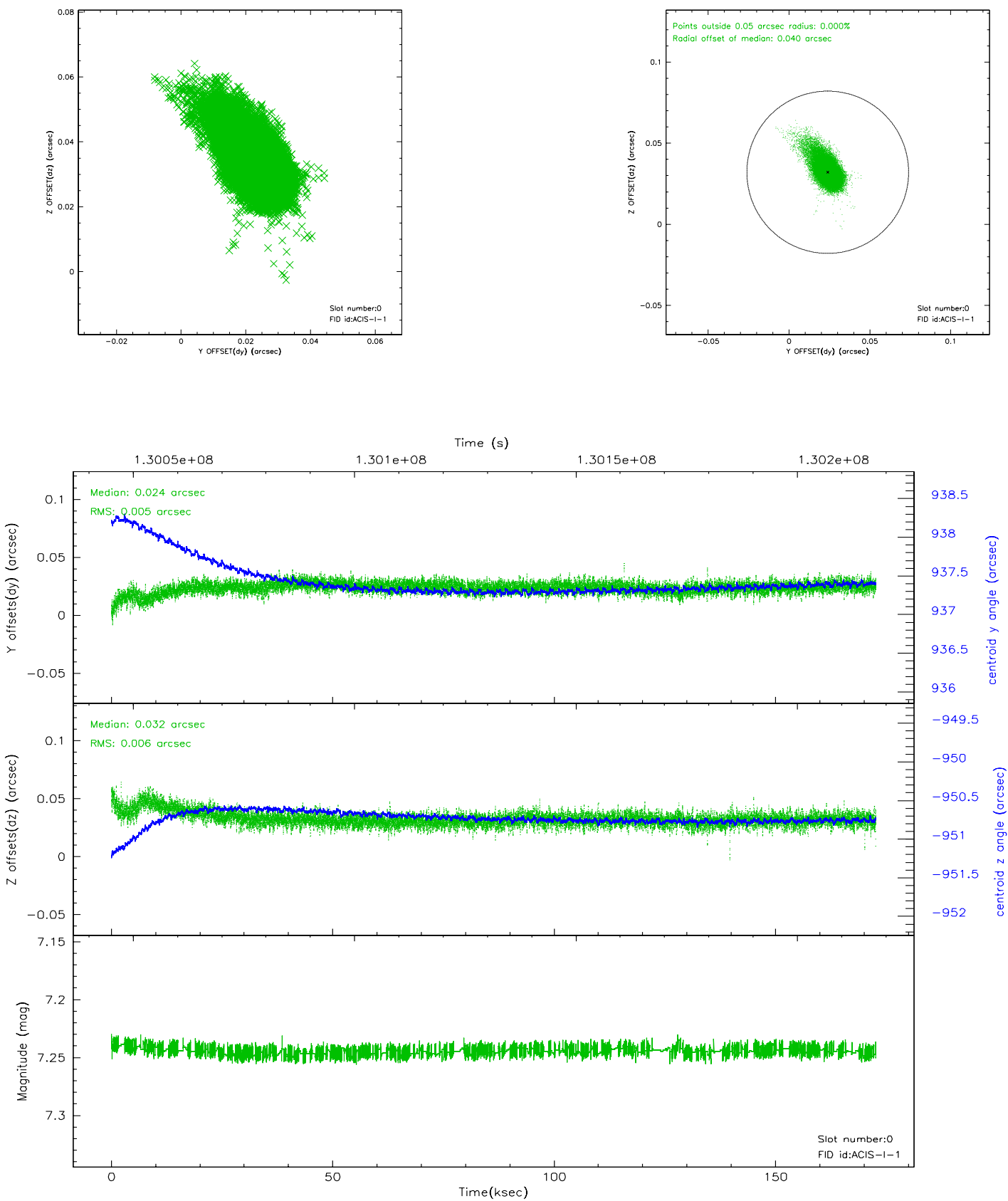


## 2.4.5 Slot 7

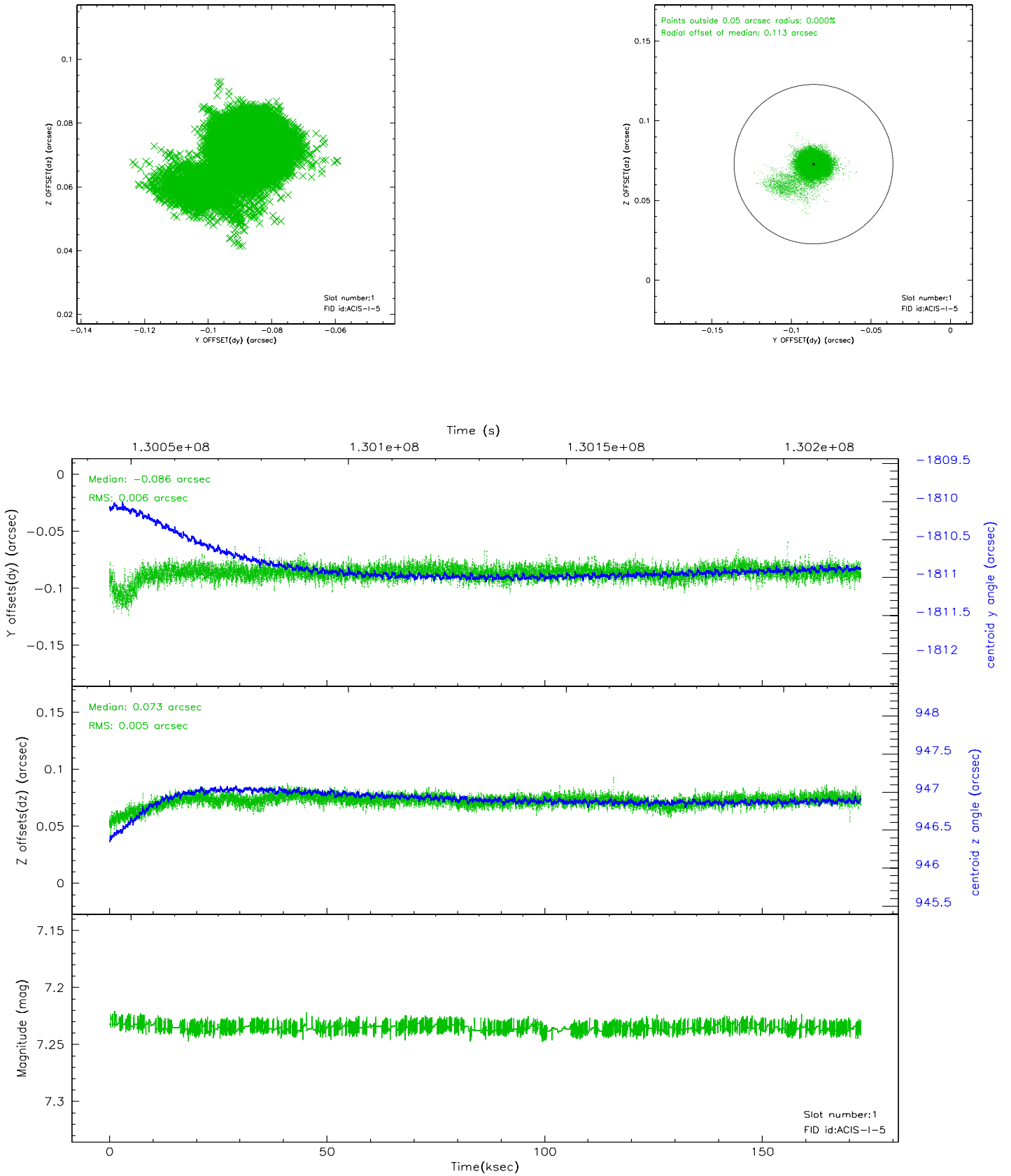


## 2.5 FID Slots

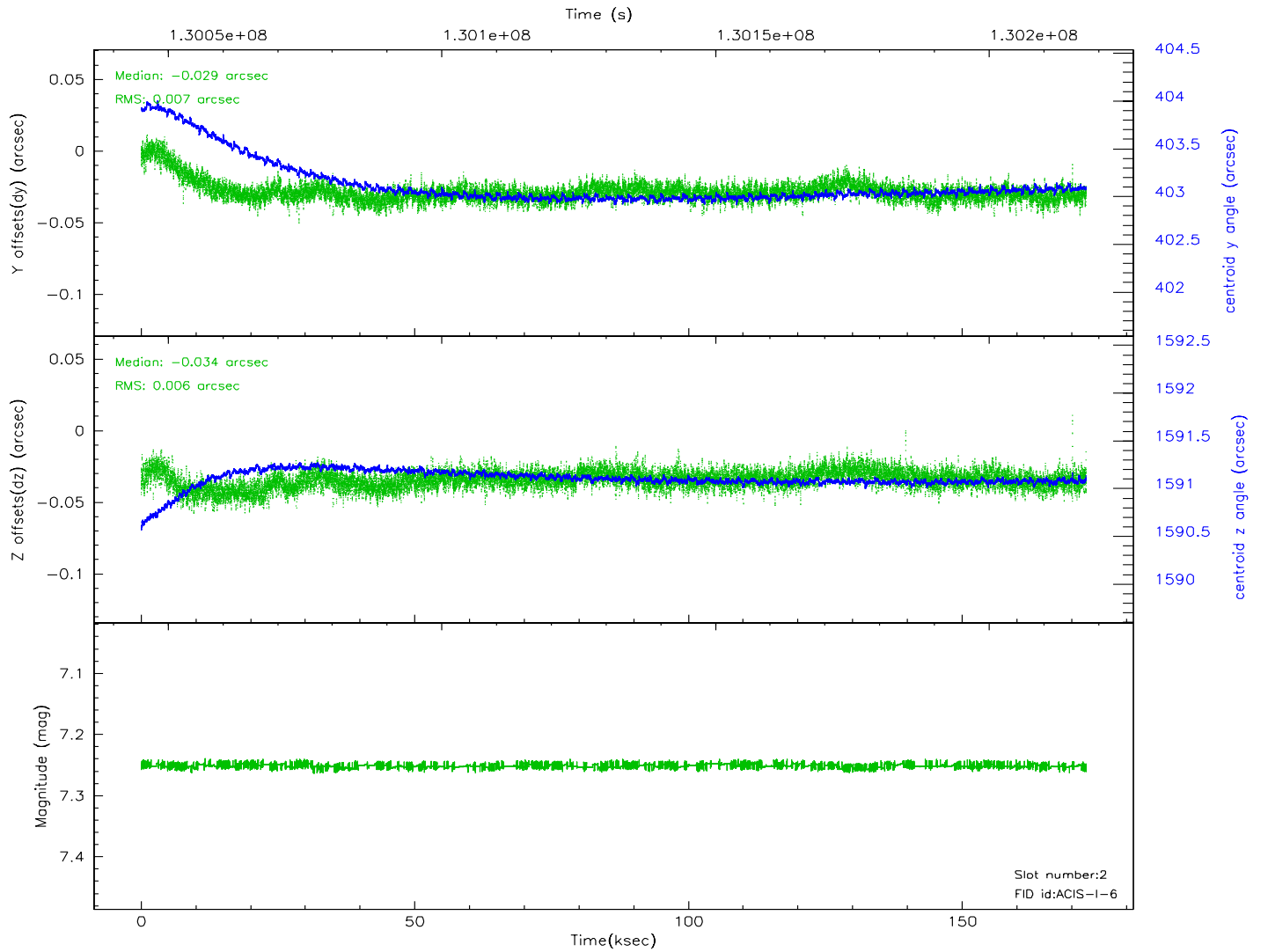
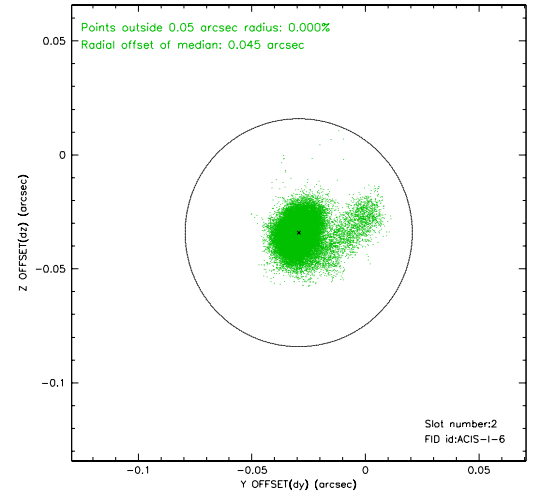
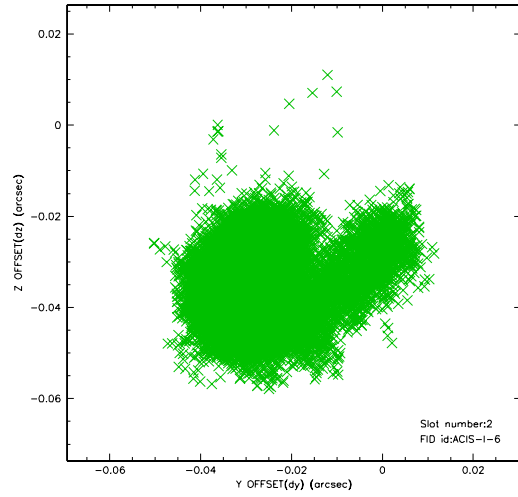
### 2.5.1 Slot 0



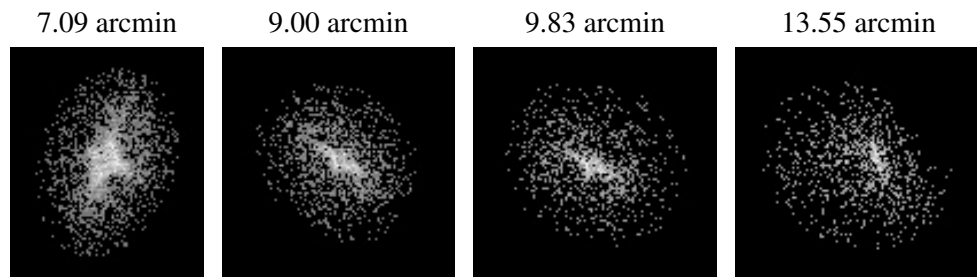
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.09.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	172.688

### A.2 Comments

Roll constraint satisfied.