

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 4163 - L2 Version 001  
Chandra X-Ray Center

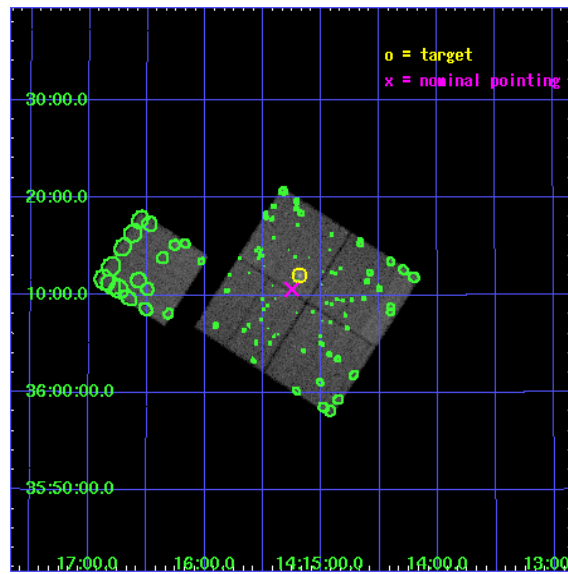
L2 Processing Date : Jul 5 2006

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# 1 Front

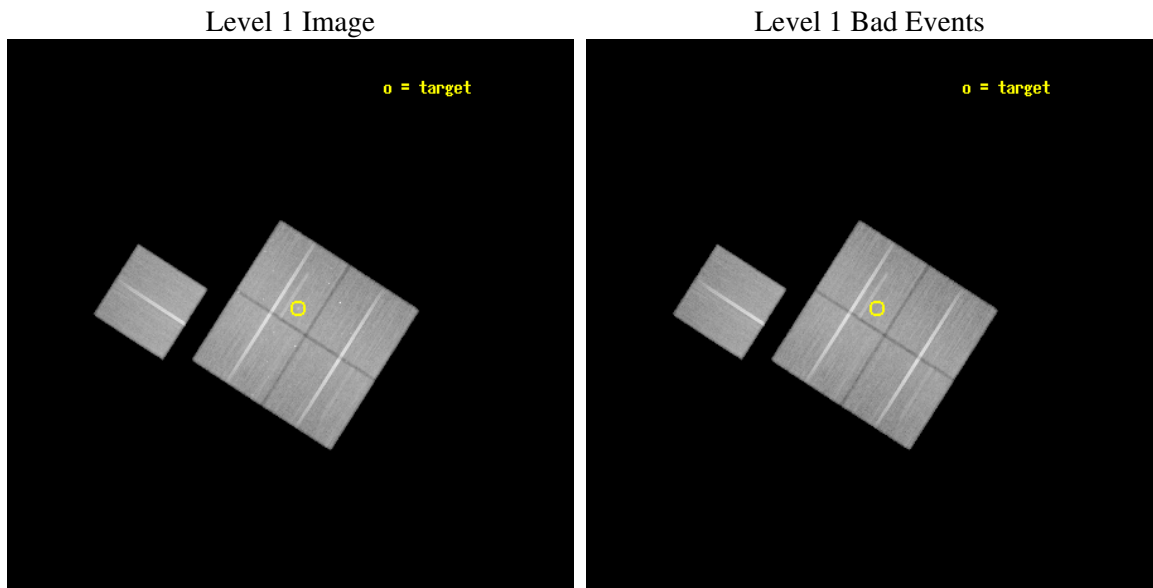
seq_num	800319
obs_id	4163
title	THE MASS DISTRUBUTION IN THE MOST DISTANT VIRIALIZED GALAXY CLUSTER KNOWN
observer	Dr Harald Ebeling
object	CLJ1415.1+3612
dtcycle	0
cycle	P
ra_targ	213.796667
dec_targ	36.201111
ra_nom	213.81315598673
dec_nom	36.176859457875
roll_nom	302.68412690248
revision	2
ontime	90374.21790573
livetime	89193.41221626
ontime0	90364.794915408
ontime1	90374.21790579
ontime2	90374.21790576
ontime3	90374.21790573
ontime6	90364.795064867
l2events	204886



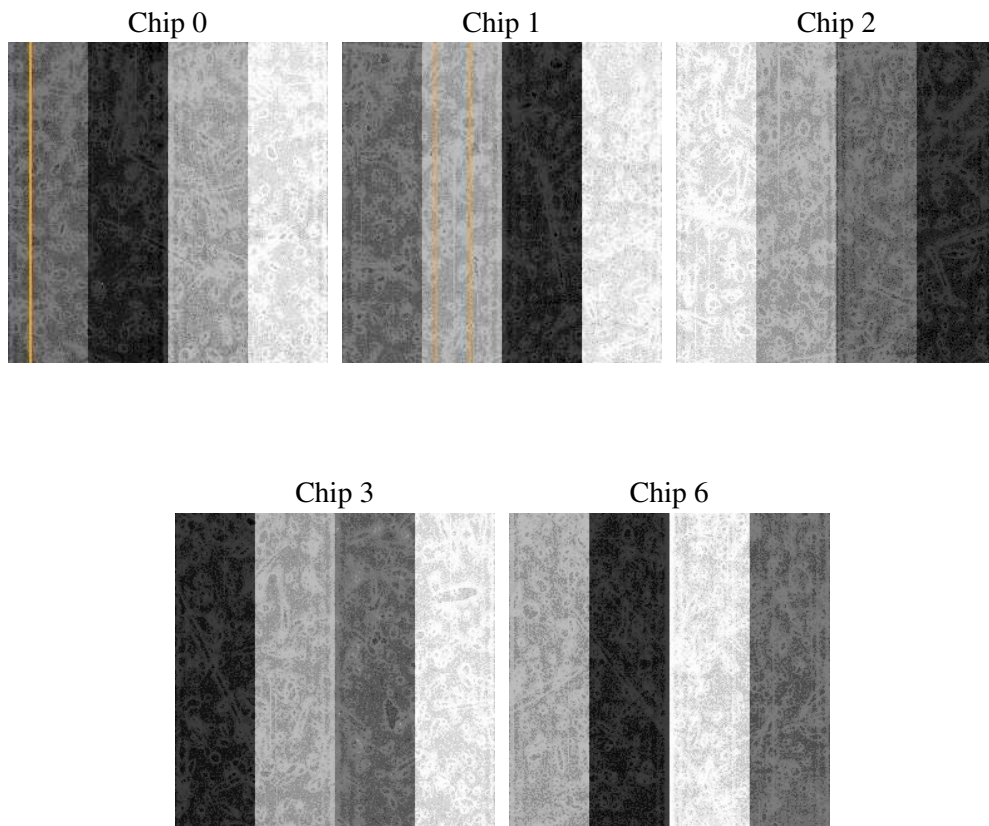
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-05T11:01:24
revision	2

sched_exp_time	90240.000000
ontime	90605.296066374
ontime0	90595.873076051
ontime1	90605.296066433
ontime2	90605.296066403
ontime3	90605.296066374
ontime6	90595.87322551
l1events	2358801

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	442512	450652	500969	484632	480036
rejected events	395882	397041	452749	436362	431538
rejected %	89%	88%	90%	90%	89%

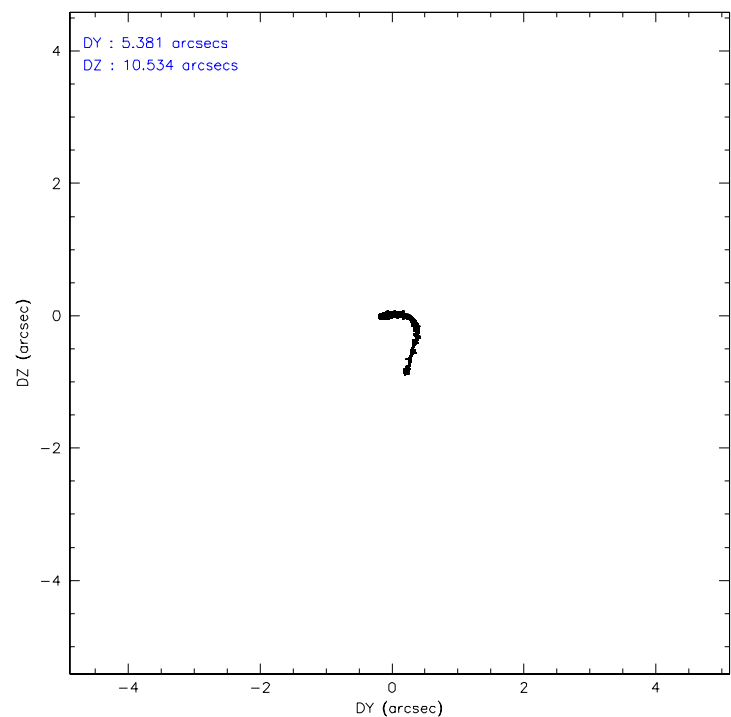
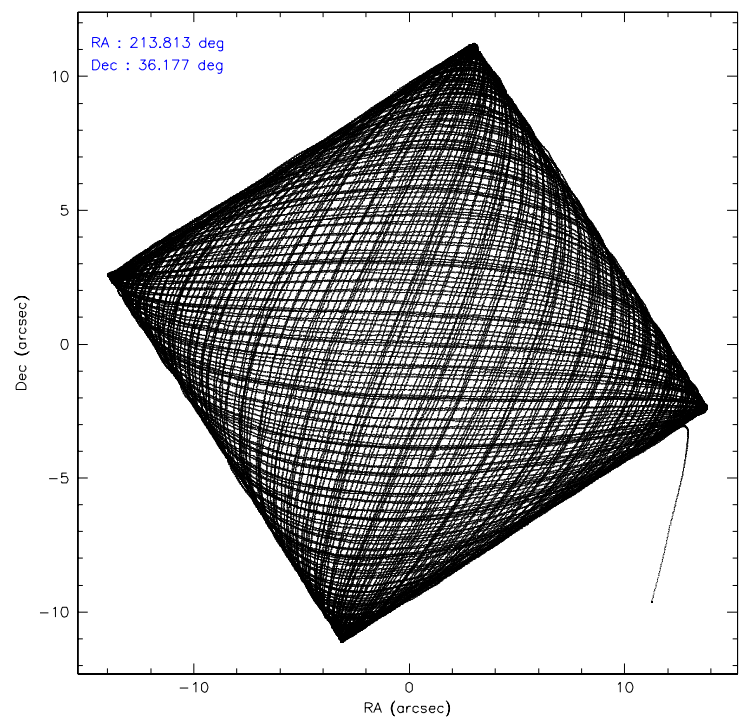
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	15941	19879	18278	18837	16900
	3%	4%	3%	3%	3%
grade 1 events	255	230	254	259	208
	0%	0%	0%	0%	0%
grade 2 events	10906	11338	10803	9913	10396
	2%	2%	2%	2%	2%
grade 3 events	5542	6131	5297	5329	5591
	1%	1%	1%	1%	1%
grade 4 events	5228	5892	5276	5332	5433
	1%	1%	1%	1%	1%
grade 5 events	16607	17579	15743	18848	18796
	3%	3%	3%	3%	3%
grade 6 events	9136	10499	8649	8994	10297
	2%	2%	1%	1%	2%
grade 7 events	378897	379104	436669	417120	412415
	85%	84%	87%	86%	85%

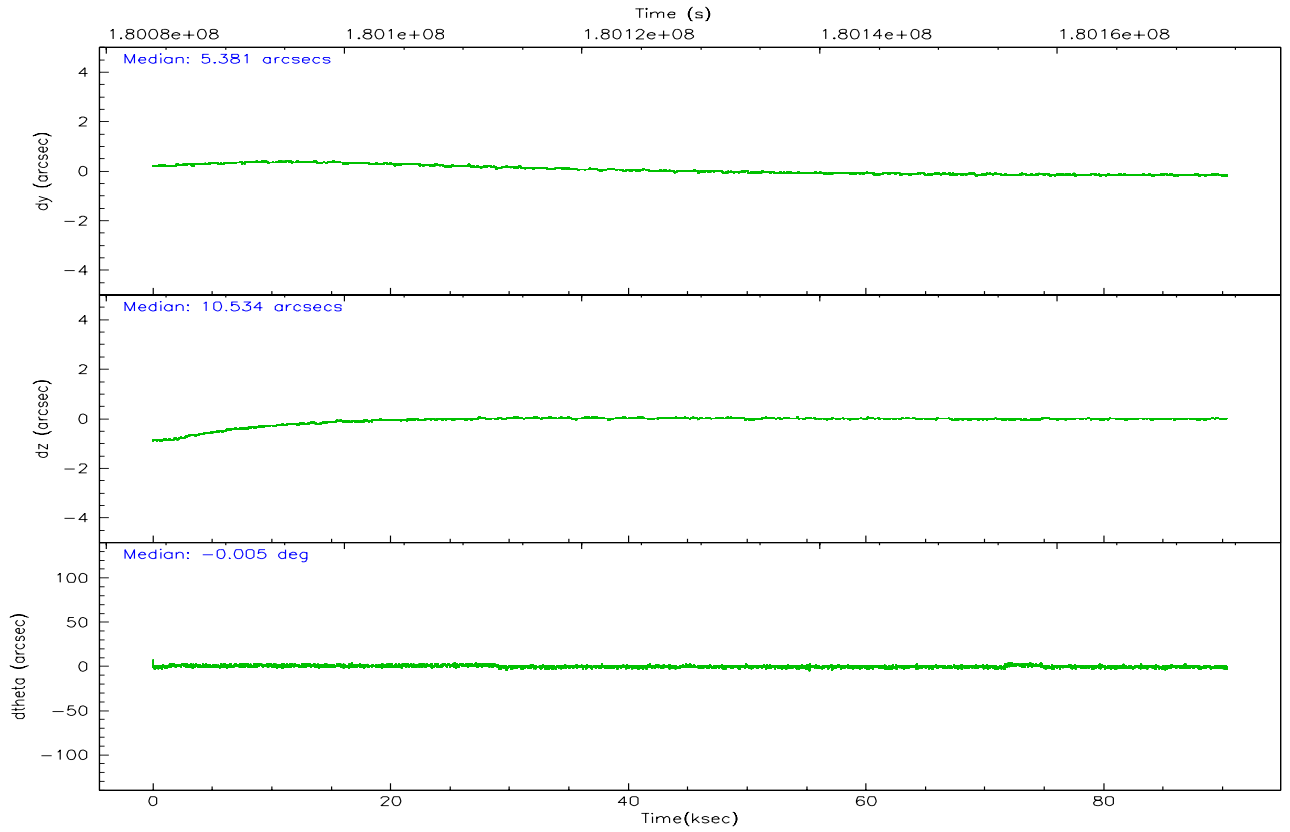
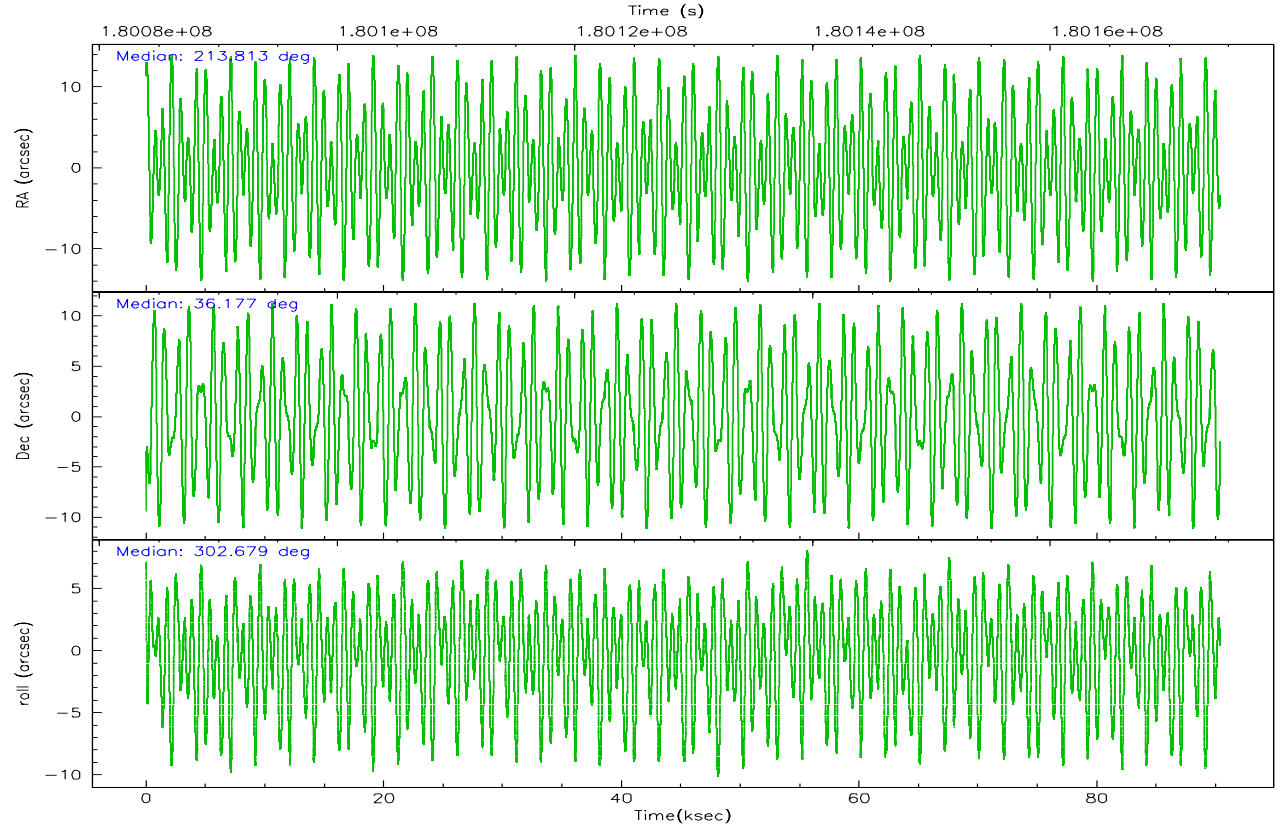


## 2.2 Compared Parameters

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	213.782947	213.8131559867344	Alternating exposures requested	N	N
Pointing Dec	36.189320	36.17685945787468	Primary exposure time	0.000000	3.1
Pointing Roll	302.493277	302.6841269024802			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-229.442463	-229.4438428438578			
SIM translation stage offset (mm)	-4.15	-4.148610159071865			
Observation start time	180084054.184000	180082970.14961			
Observation start date	2003-09-16T07:19:50	2003-09-16T07:02:50			
Observation end time	180174294.184000	180174881.90356			
Observation end date	2003-09-17T08:23:50	2003-09-17T08:34:41			
Read mode	TIMED	TIMED			

2.3 Aspect



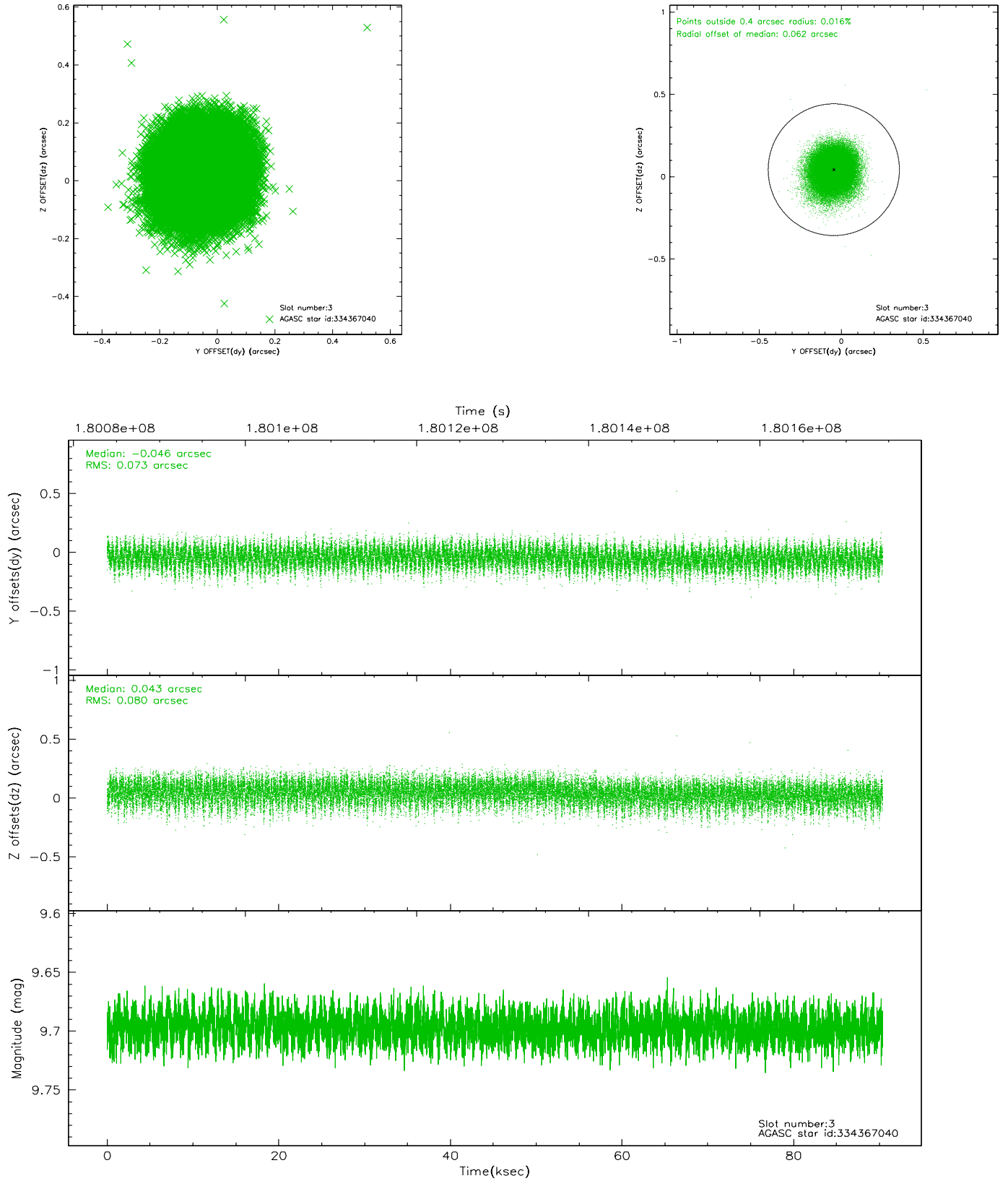


# Slot Statistics

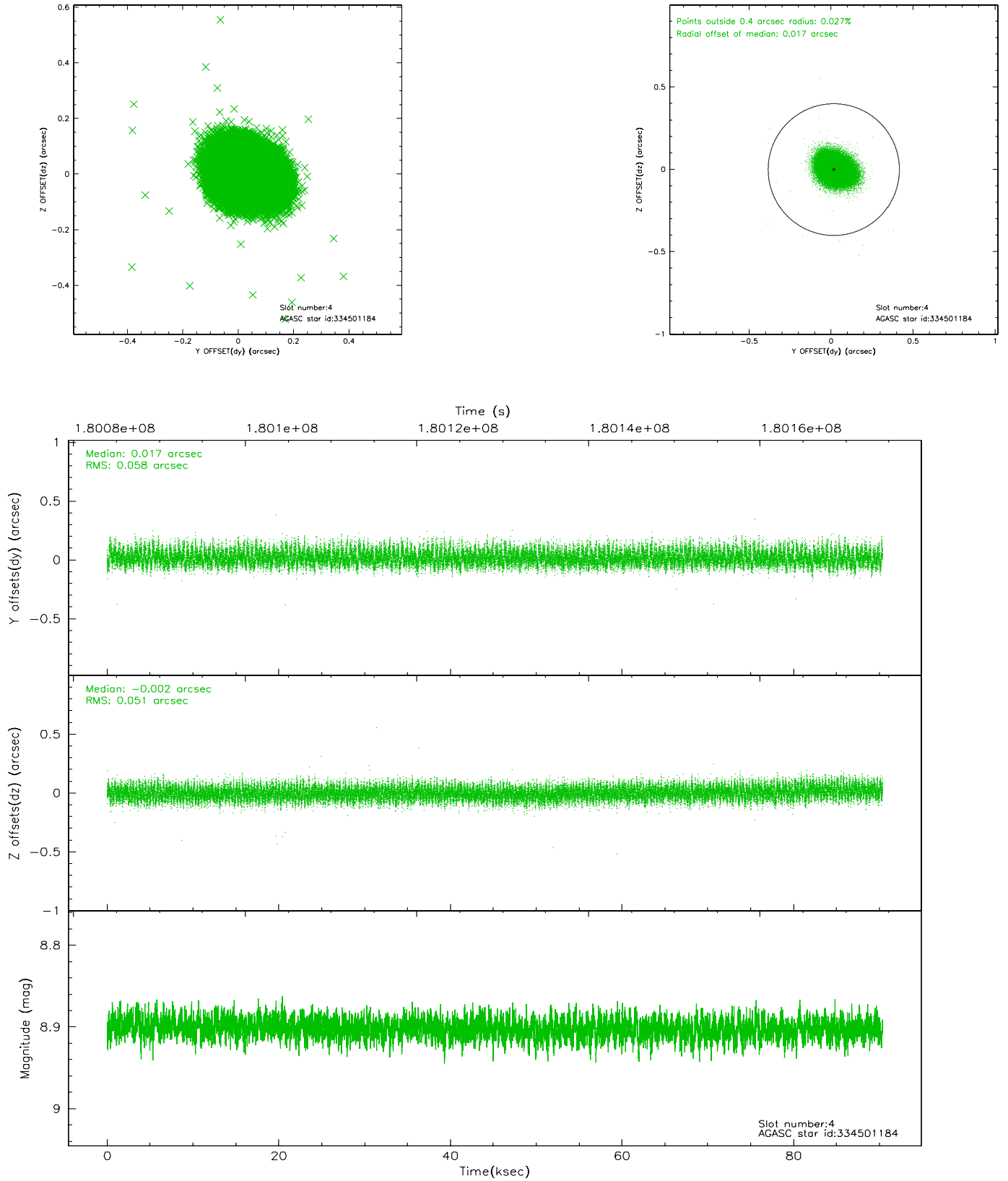
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.23	22045	-0.009	-0.048	0.011	0.027	0.000000	0.000000	934.25	-919.06
1	FID	ACIS-I-2	7.16	22047	-0.090	0.025	0.014	0.021	0.000000	0.000000	-760.19	-924.93
2	FID	ACIS-I-4	7.15	22041	-0.000	0.088	0.019	0.027	0.000000	0.000000	2153.86	981.49
3	GUIDE	334367040	9.70	44067	-0.046	0.043	0.115	0.186	212.753564	36.296490	-1943.00	-2303.39
4	GUIDE	334501184	8.90	44080	0.017	-0.002	0.082	0.132	214.124254	36.665460	-917.85	1753.10
5	GUIDE	334503736	8.72	44078	0.135	0.089	0.076	0.125	213.589679	35.541631	1662.49	-1729.56
6	GUIDE	334503848	8.67	44073	-0.063	0.008	0.088	0.144	213.945253	37.045432	-2349.48	2049.24
7	GUIDE	334503136	9.46	43871	-0.039	-0.137	0.115	0.188	214.385434	35.754153	2262.29	646.27

## 2.4 Star Slots

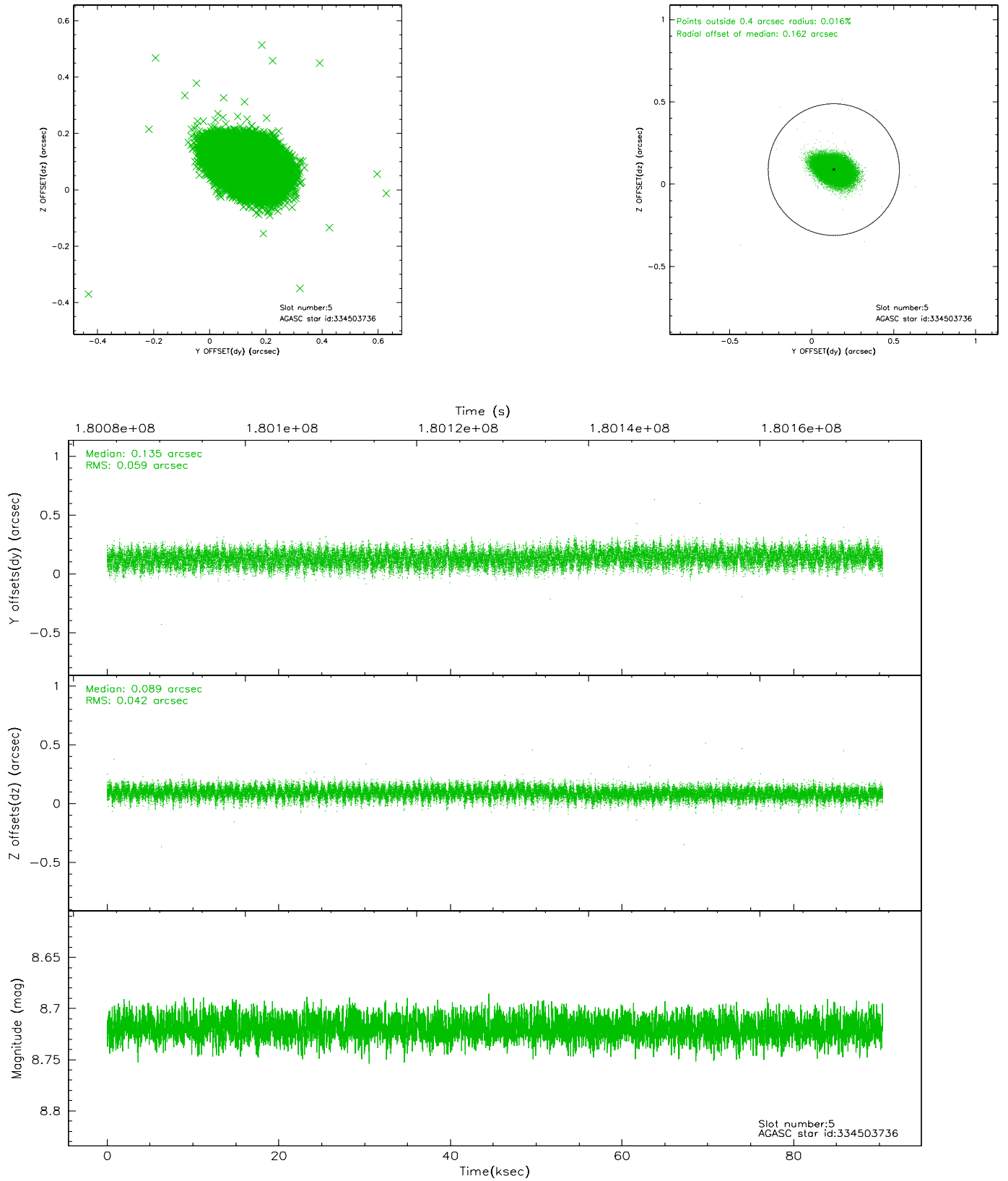
### 2.4.1 Slot 3



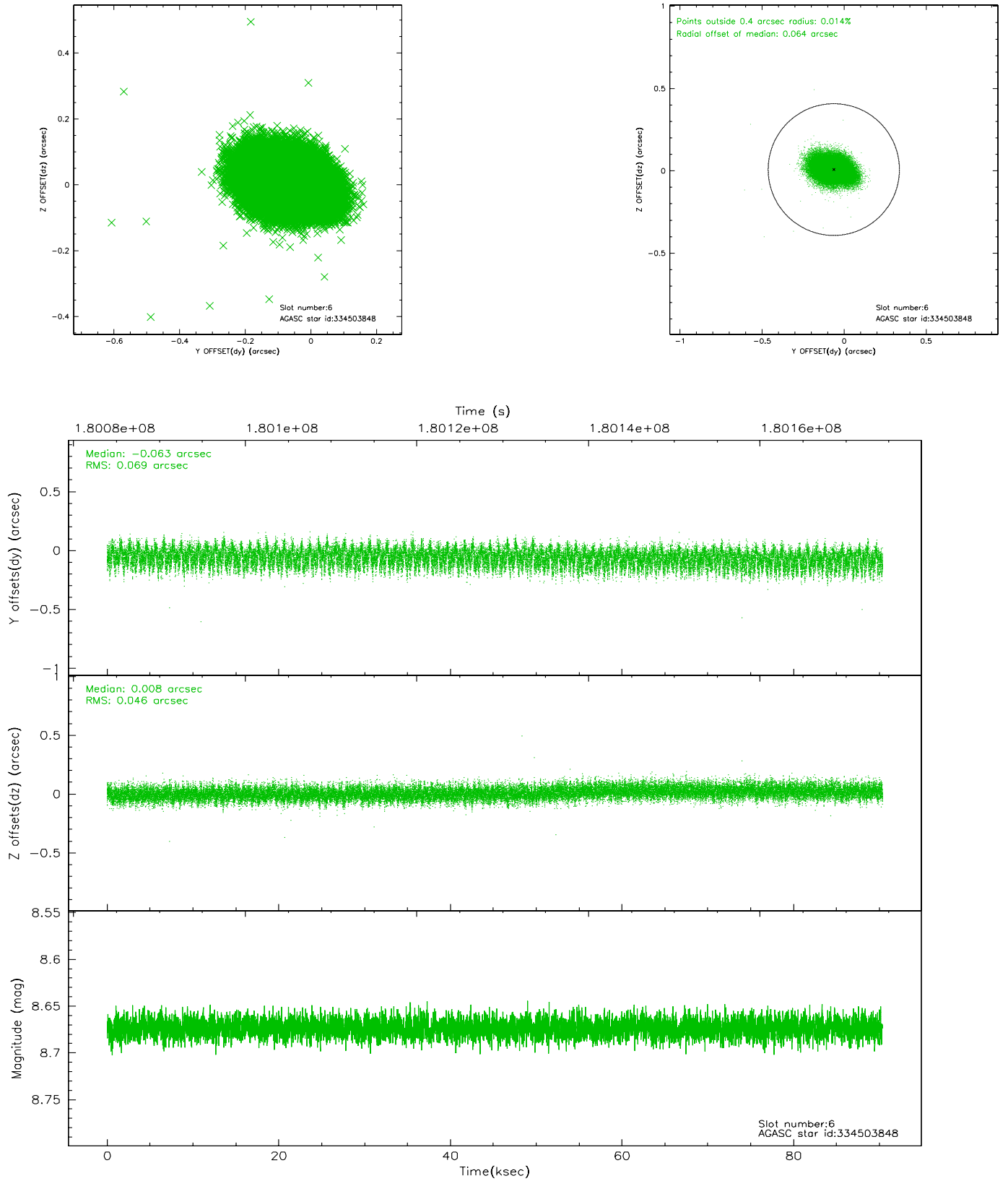
## 2.4.2 Slot 4



### 2.4.3 Slot 5

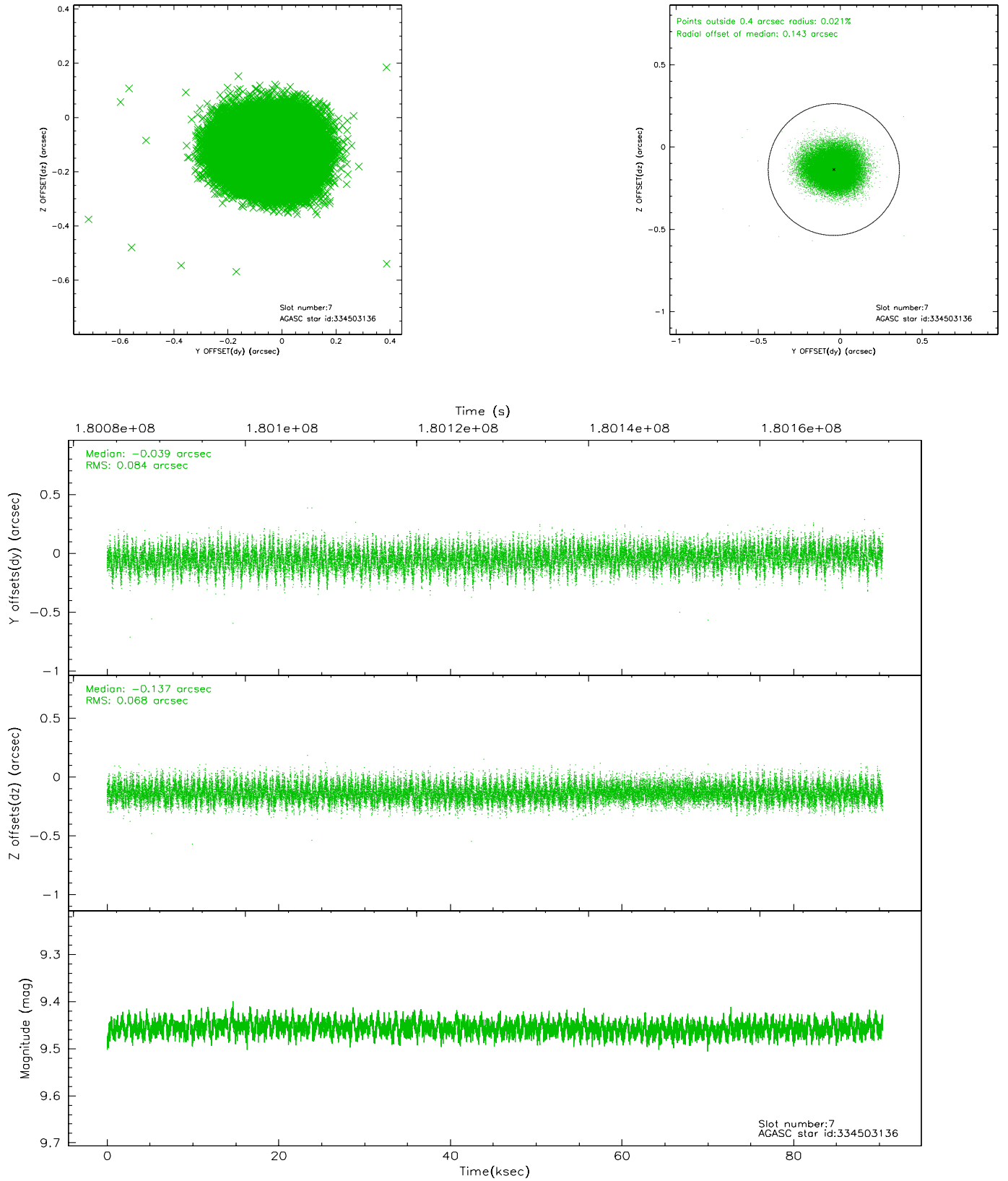


## 2.4.4 Slot 6



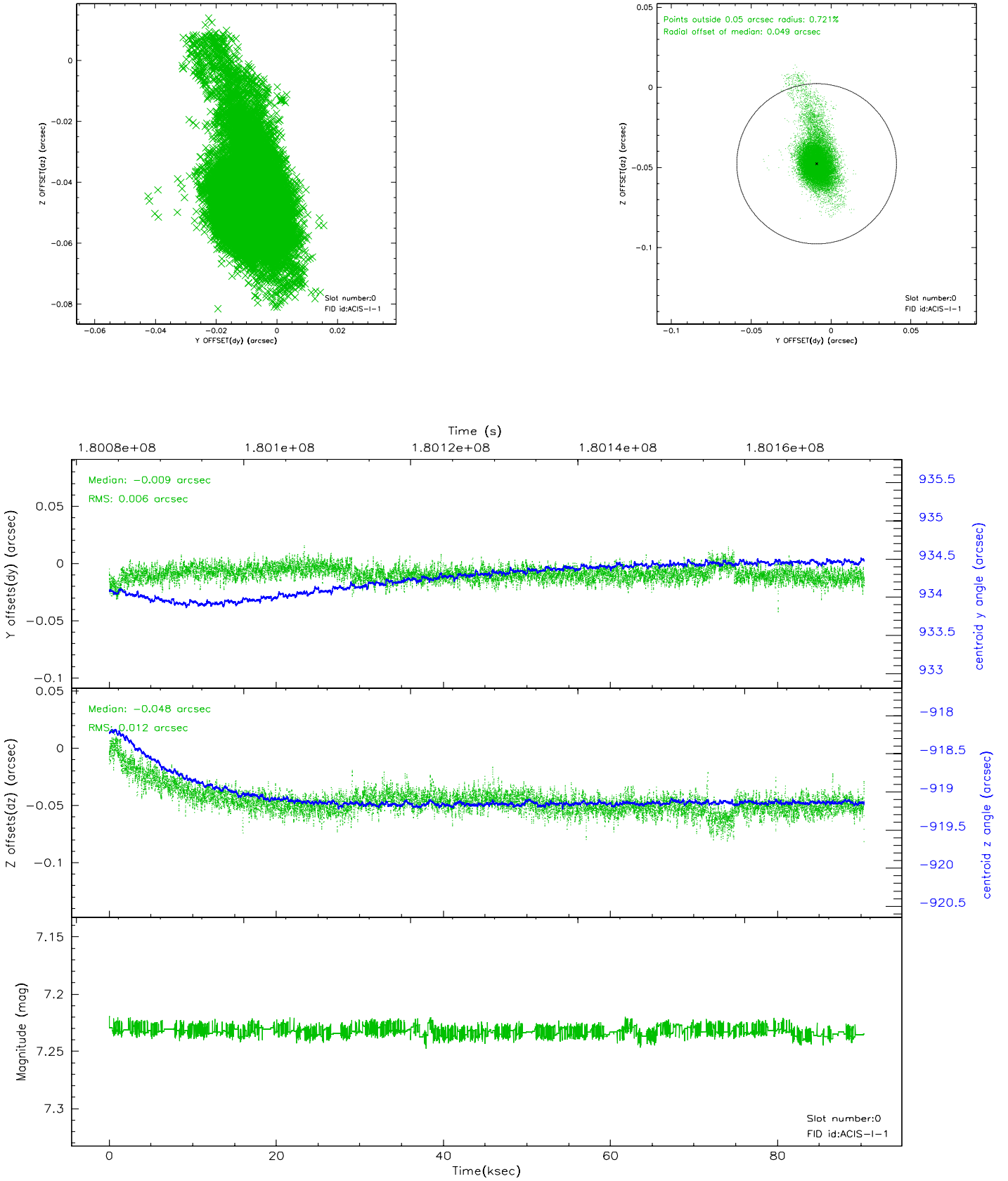


## 2.4.5 Slot 7

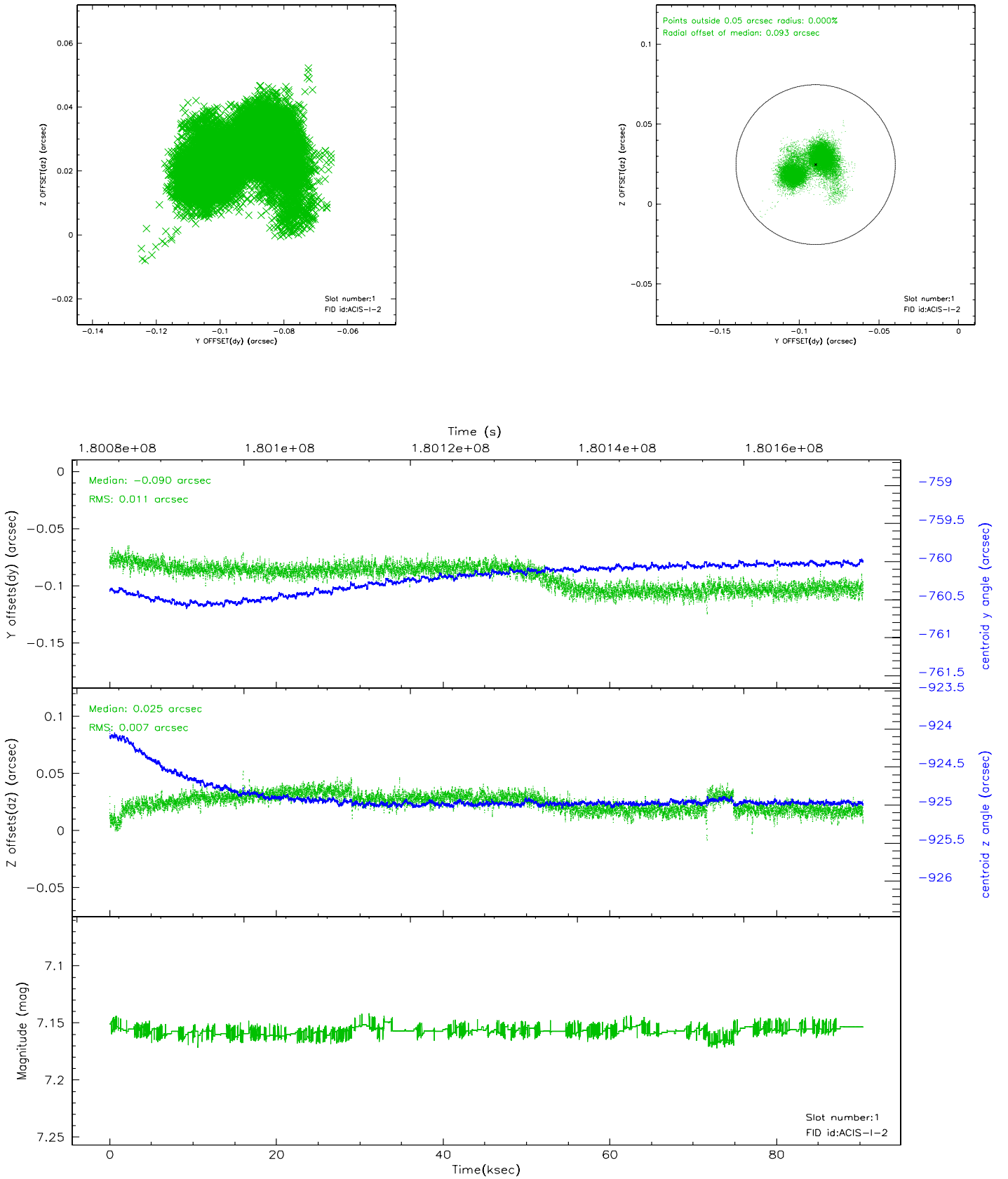


## 2.5 FID Slots

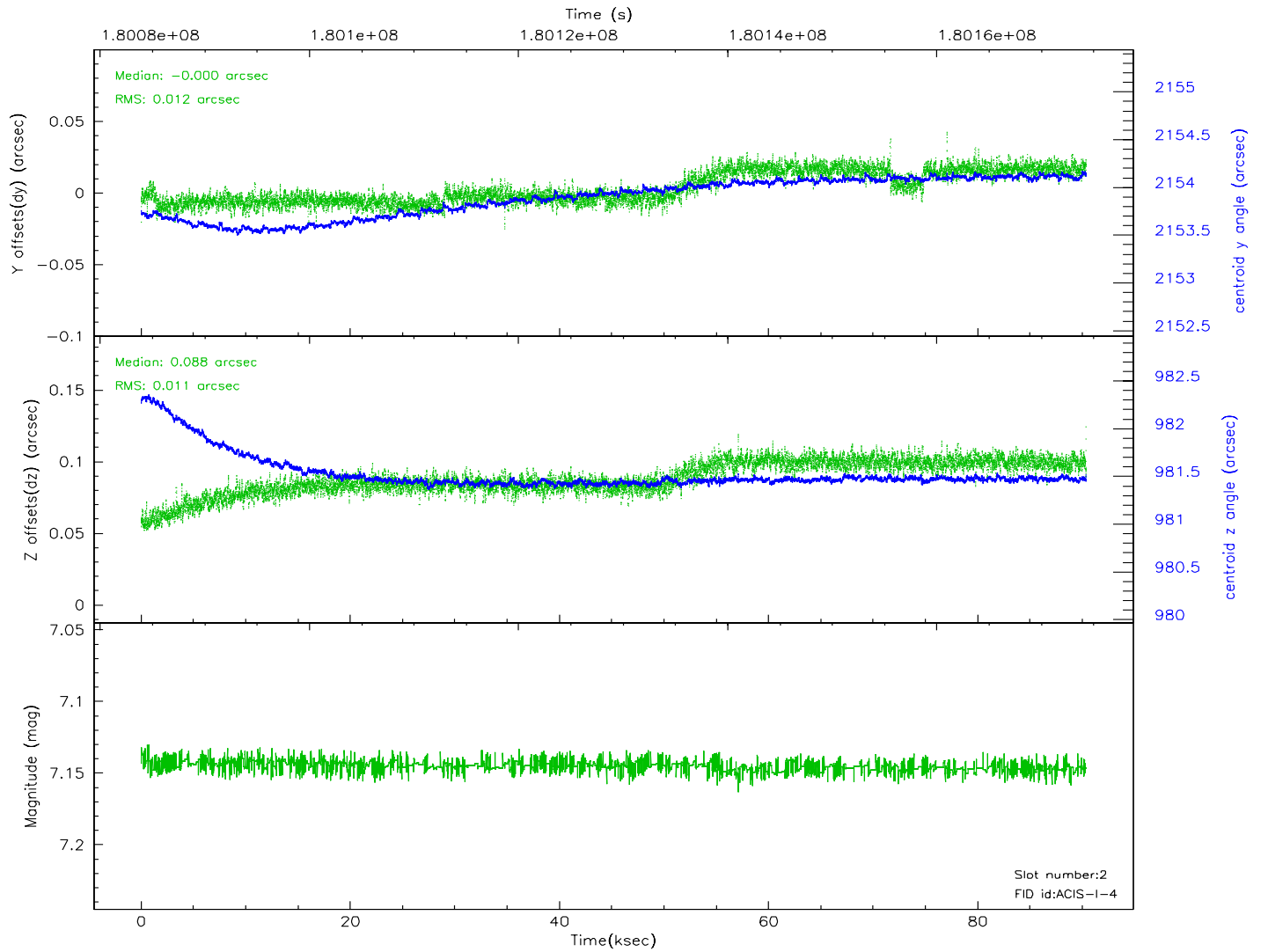
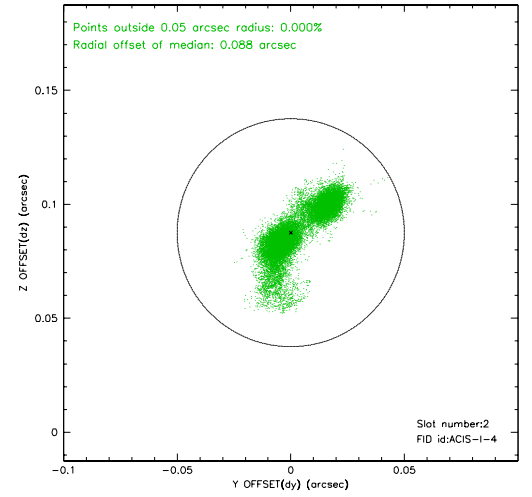
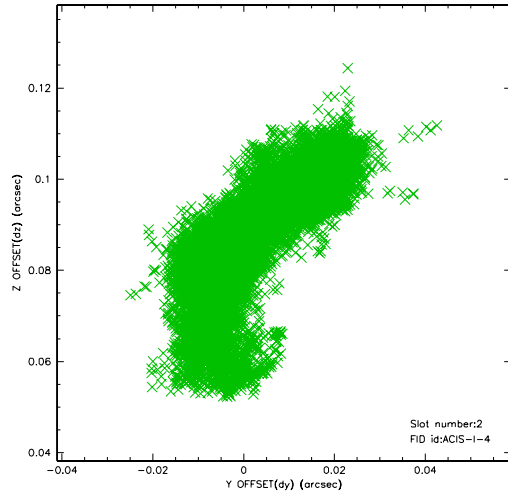
### 2.5.1 Slot 0



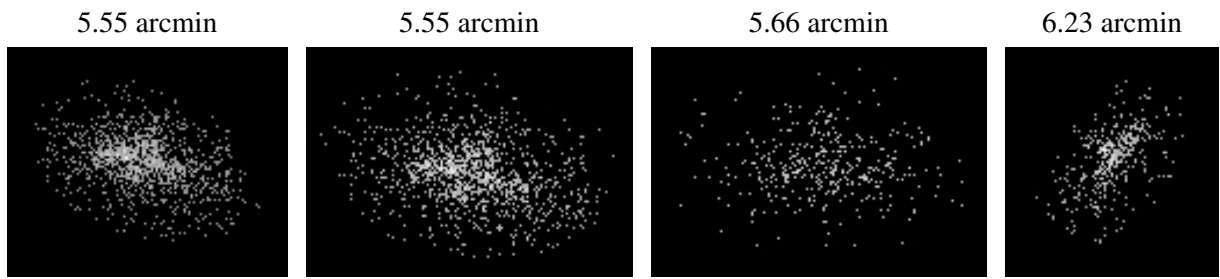
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.07.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	90.374

### A.2 Comments