

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 3261 - L2 Version 001  
Chandra X-Ray Center

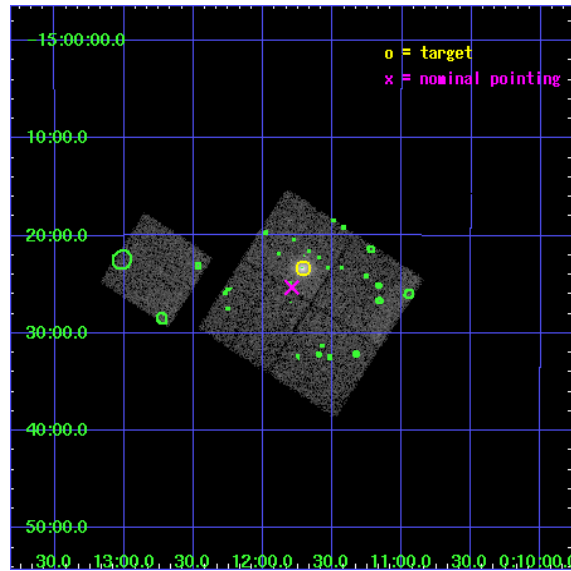
L2 Processing Date : Oct 9 2006

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	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
<b>3</b>	<b>Point Sources</b>	<b>17</b>
<b>A</b>	<b>Summary</b>	<b>18</b>
A.1	Status . . . . .	18
A.2	Comments . . . . .	18

# 1 Front

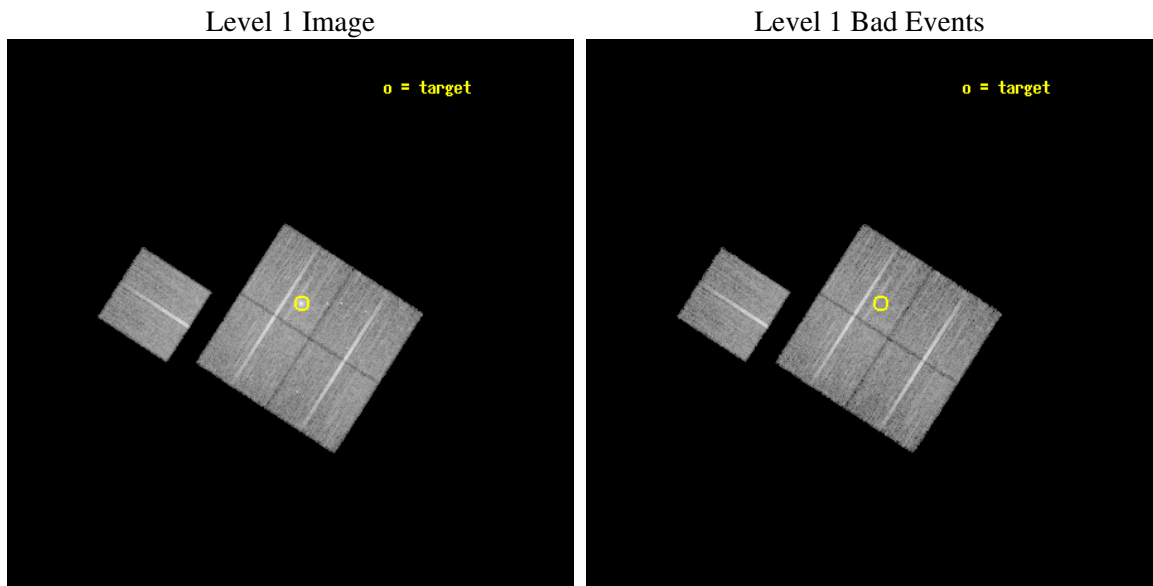
seq_num	800261
obs_id	3261
title	MACS: THE X-RAY PROPERTIES OF THE MOST MASSIVE GALAXY CLUSTERS AT $Z>0.3$
observer	Dr Harald Ebeling
object	MACSJ0011.7-1523
dtcycle	0
cycle	P
ra_targ	2.92875
dec_targ	-15.389444
ra_nom	2.9482287237574
dec_nom	-15.422116435351
roll_nom	302.8174365957
revision	2
ontime	21885.999957919
livetime	21600.04325623
ontime0	21879.718117118
ontime1	21882.858987689
ontime2	21882.859087348
ontime3	21885.999957919
ontime6	21885.999957919
l2events	52126



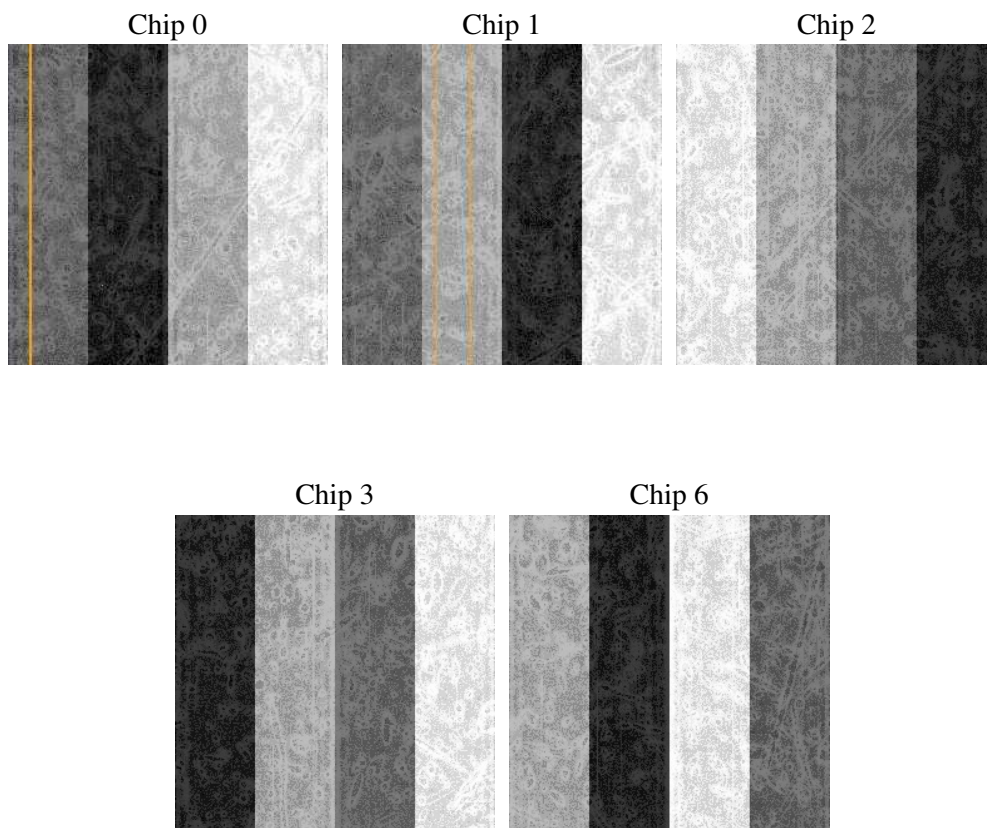
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.9
caldbver	3.2.3
date	2006-10-09T18:26:42
revision	2

sched_exp_time	21800.000000
ontime	21892.796171397
ontime0	21886.514360517
ontime1	21889.655201167
ontime2	21889.655300826
ontime3	21892.796171397
ontime6	21892.796171397
l1events	521364

### 2.1.4 Events

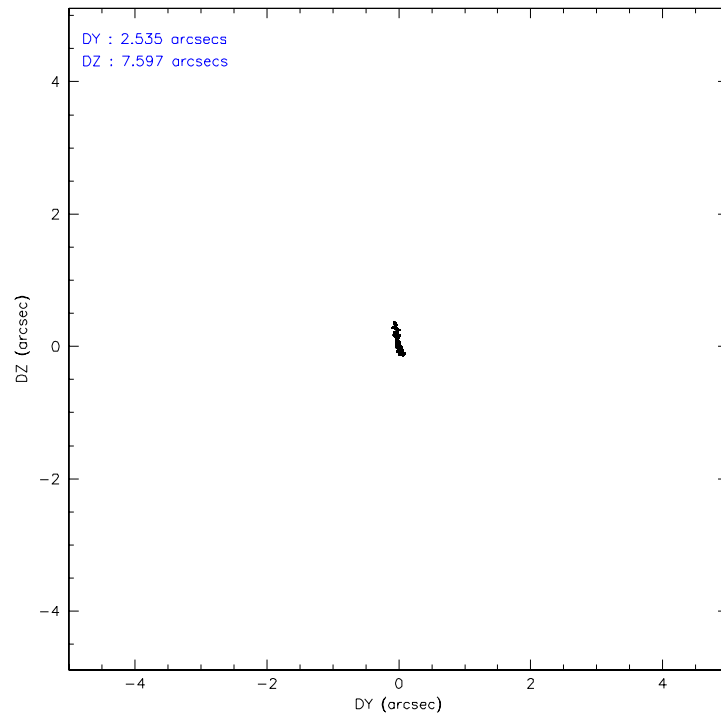
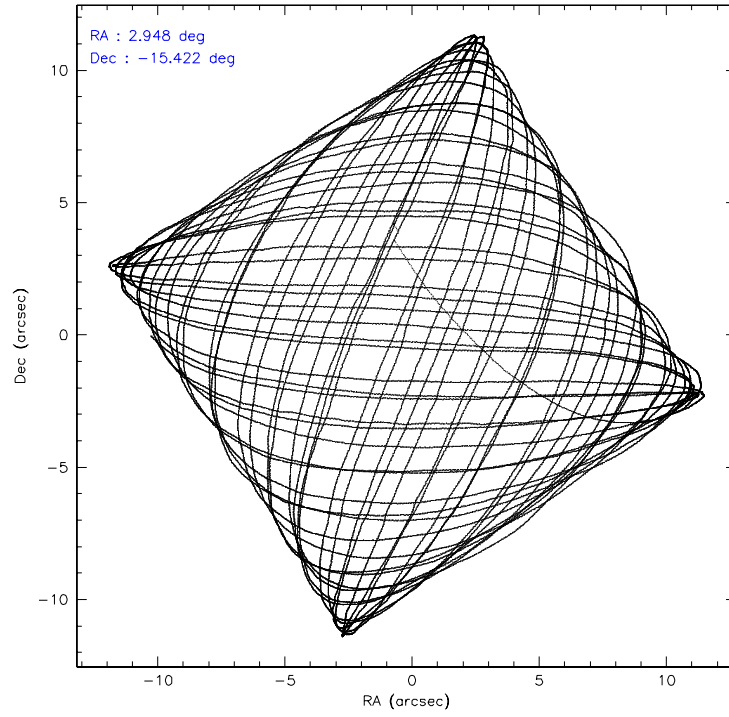
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	96526	98246	107586	112800	106206
rejected events	85759	85942	97062	95695	95440
rejected %	88%	87%	90%	84%	89%

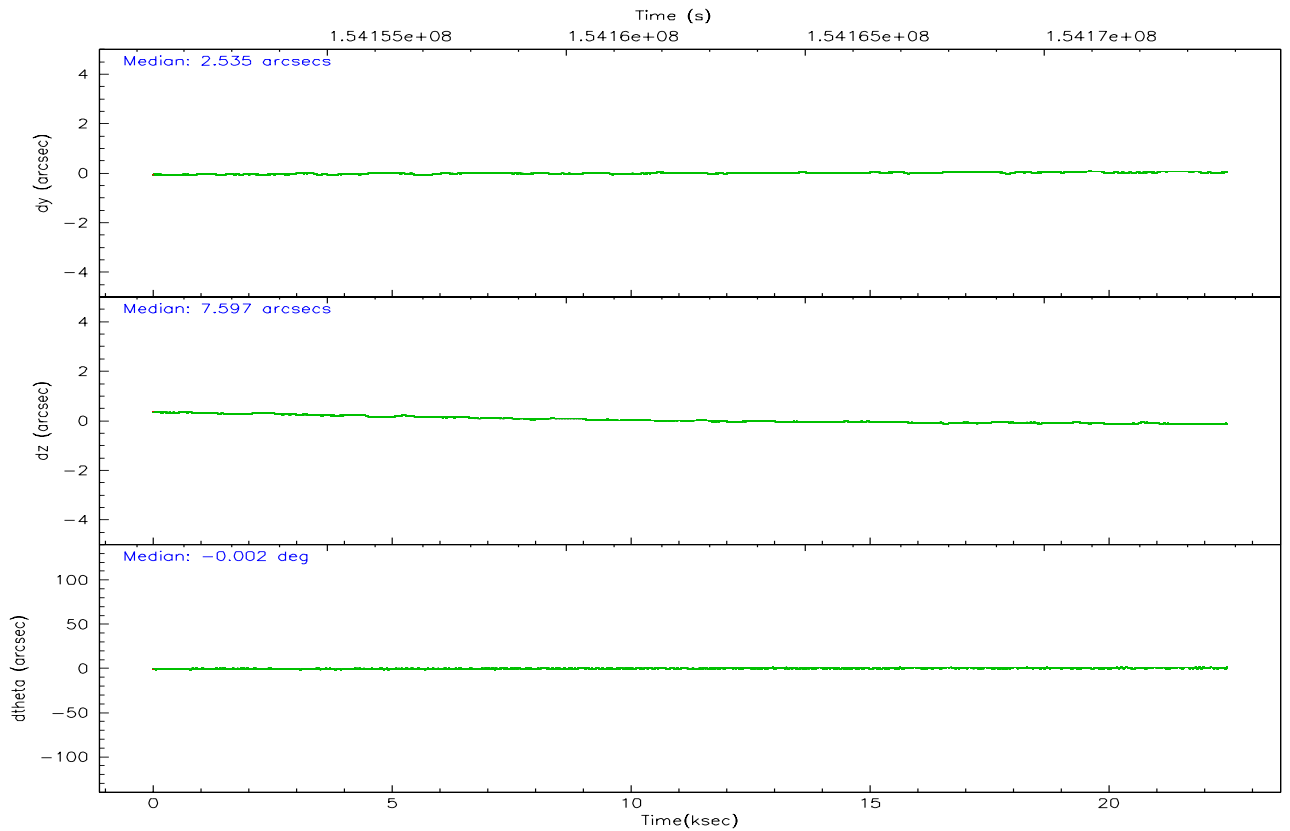
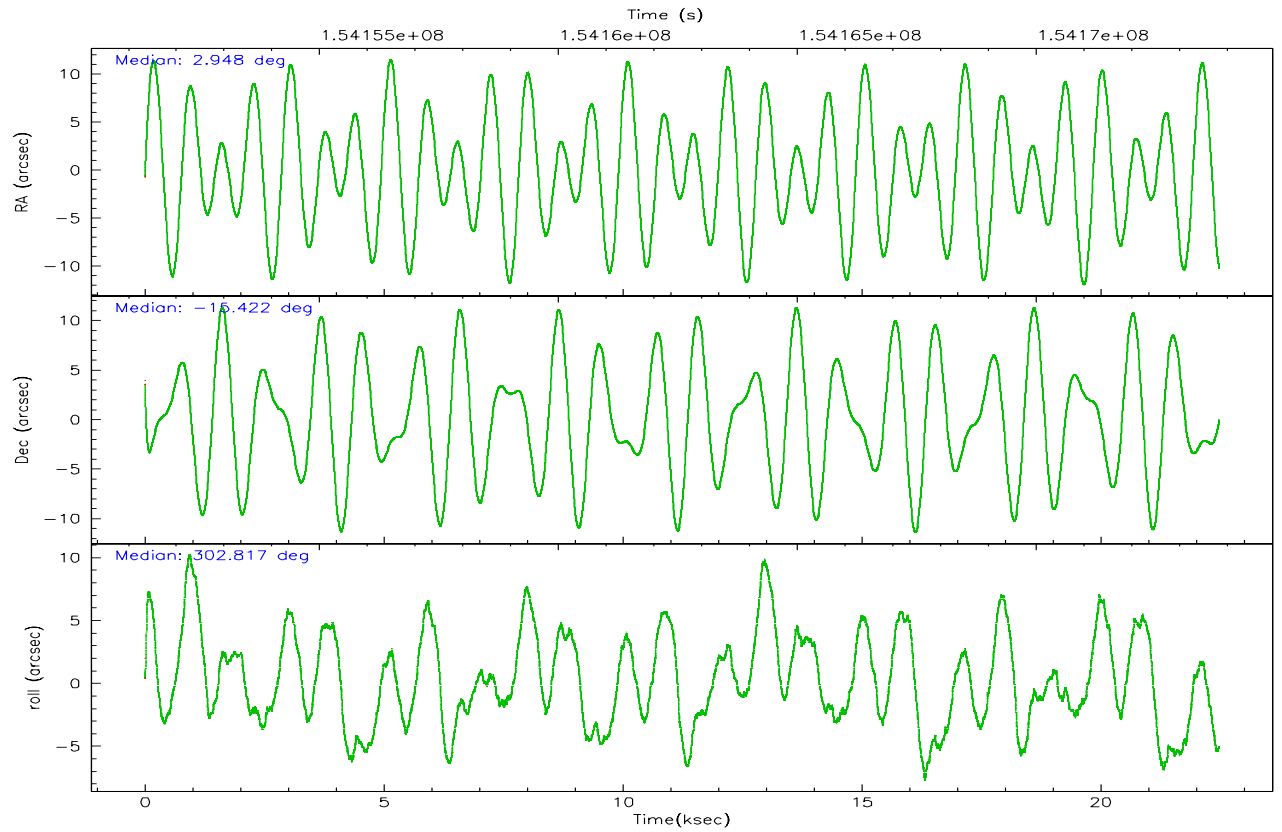
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	3976	4705	3813	9541	3773
	4%	4%	3%	8%	3%
grade 1 events	56	39	51	74	44
	0%	0%	0%	0%	0%
grade 2 events	2362	2495	2336	2800	2205
	2%	2%	2%	2%	2%
grade 3 events	1349	1362	1232	1297	1213
	1%	1%	1%	1%	1%
grade 4 events	1088	1361	1183	1358	1241
	1%	1%	1%	1%	1%
grade 5 events	3557	3902	3352	4032	4054
	3%	3%	3%	3%	3%
grade 6 events	1996	2384	1962	2116	2335
	2%	2%	1%	1%	2%
grade 7 events	82142	81998	93657	91582	91341
	85%	83%	87%	81%	86%

## 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	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	2.922888	2.948228723757433	Subarray requested	NONE	NONE
Pointing Dec	-15.409680	-15.42211643535053	Alternating exposures requested	N	N
Pointing Roll	302.602015	302.8174365956954	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)	-227.742463	-227.734108438797			
SIM translation stage offset (mm)	-5.85	-5.858344564132665			
Observation start time	154152024.184000	154150812.42896			
Observation start date	2002-11-20T03:59:20	2002-11-20T03:40:12			
Observation end time	154173824.184000	154174367.95494			
Observation end date	2002-11-20T10:02:40	2002-11-20T10:12:47			
Read mode	TIMED	TIMED			

## 2.3 Aspect





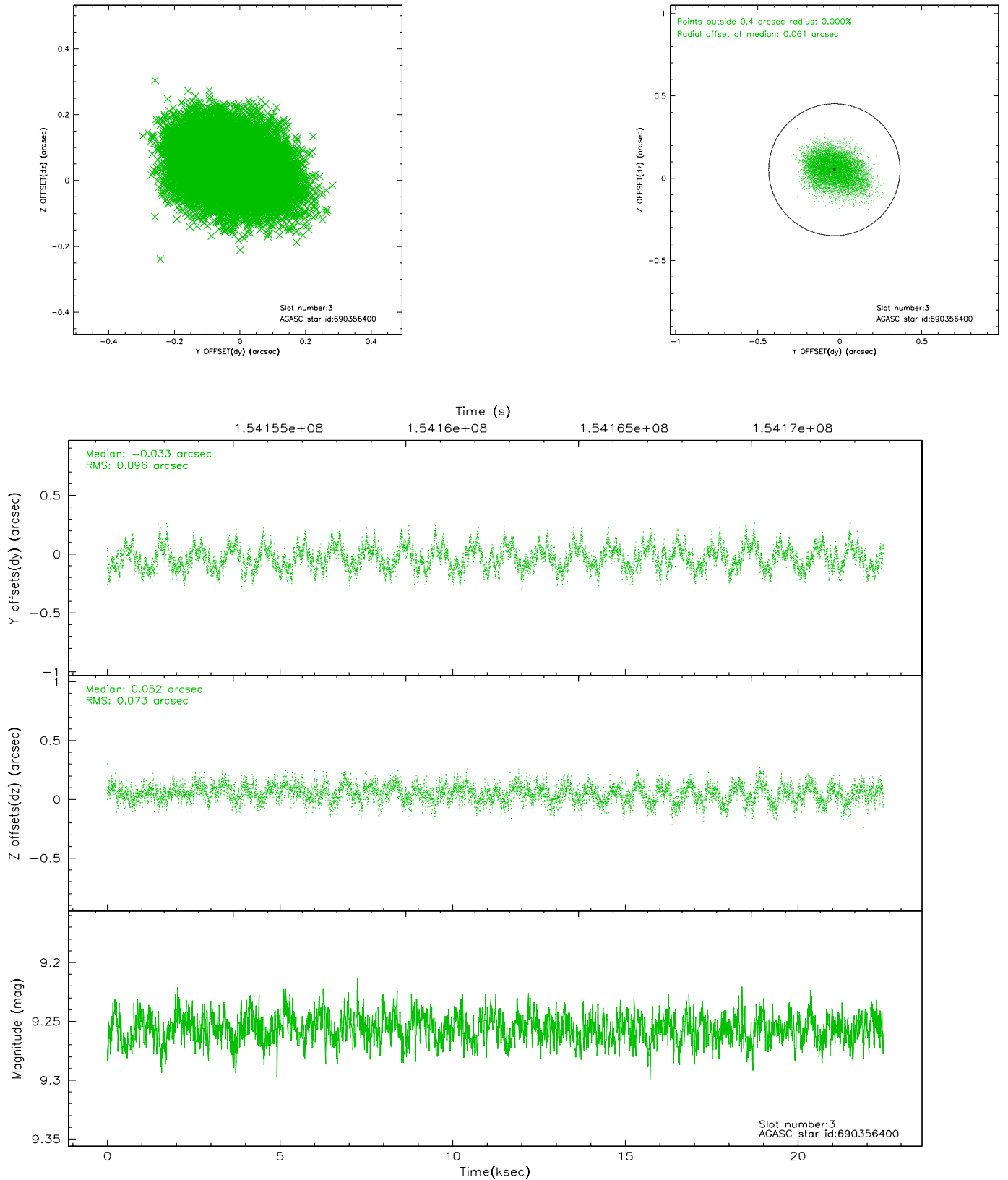
### Slot Statistics

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	5485	0.015	0.035	0.010	0.015	0.000000	0.000000	937.17	-951.27
1	FID	ACIS-I-5	7.24	5484	-0.100	0.059	0.012	0.017	0.000000	0.000000	-1810.96	946.17
2	FID	ACIS-I-6	7.25	5483	-0.006	-0.023	0.016	0.022	0.000000	0.000000	402.55	1590.75
3	GUIDE	690356400	9.26	10962	-0.033	0.052	0.131	0.202	3.405177	-14.944552	-504.48	2314.38
4	GUIDE	765199024	9.25	10963	-0.193	-0.108	0.114	0.179	2.209547	-15.114434	-2226.85	-1518.19
5	GUIDE	765203584	9.50	10959	-0.069	-0.031	0.296	0.399	2.532852	-15.177110	-1433.84	-691.48
6	GUIDE	765334176	9.04	10966	0.126	0.029	0.113	0.170	3.031719	-15.842479	1516.75	-521.99
7	GUIDE	765334312	9.85	10961	0.168	0.066	0.108	0.174	3.342782	-15.495859	1048.57	1059.12

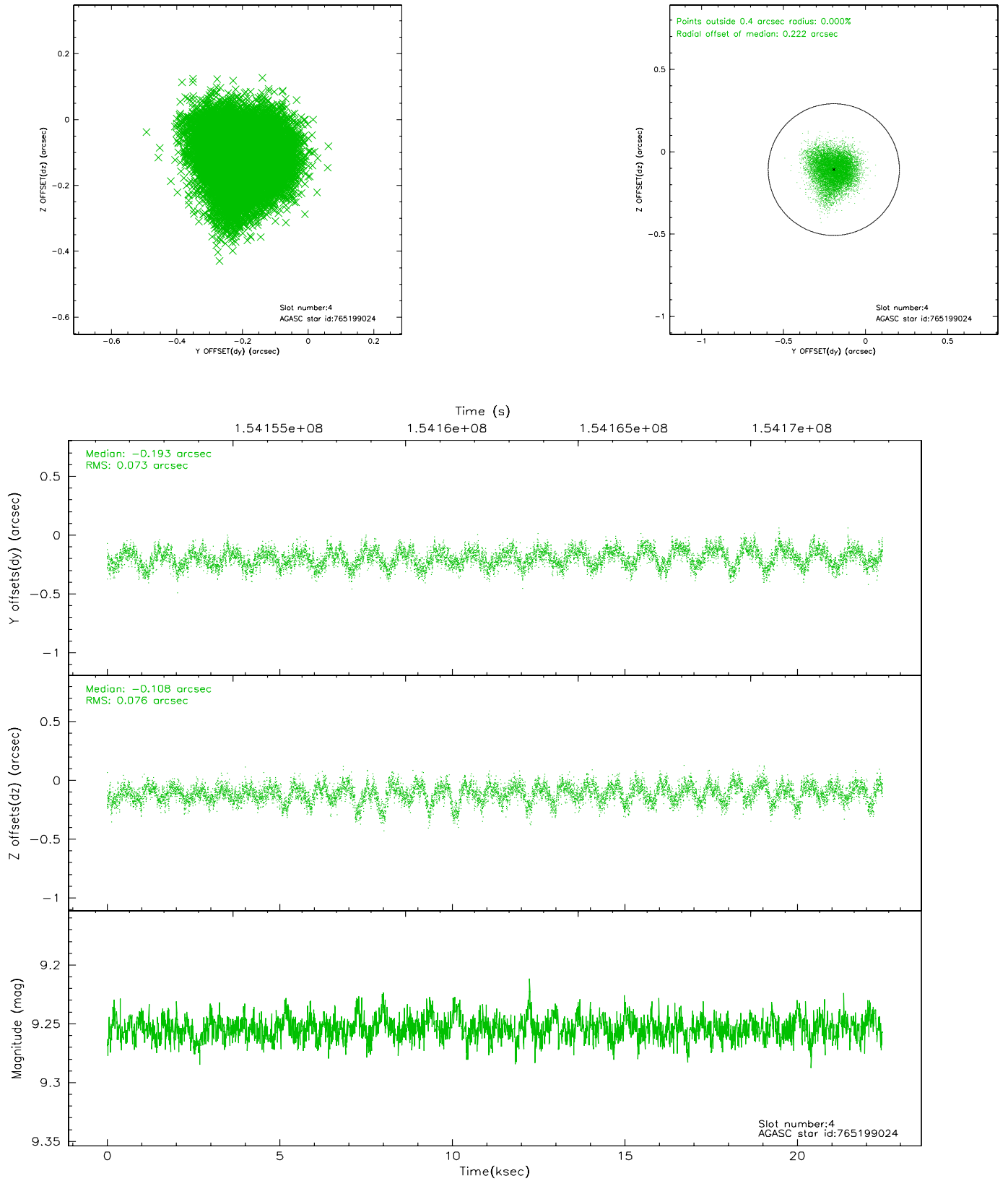


## 2.4 Star Slots

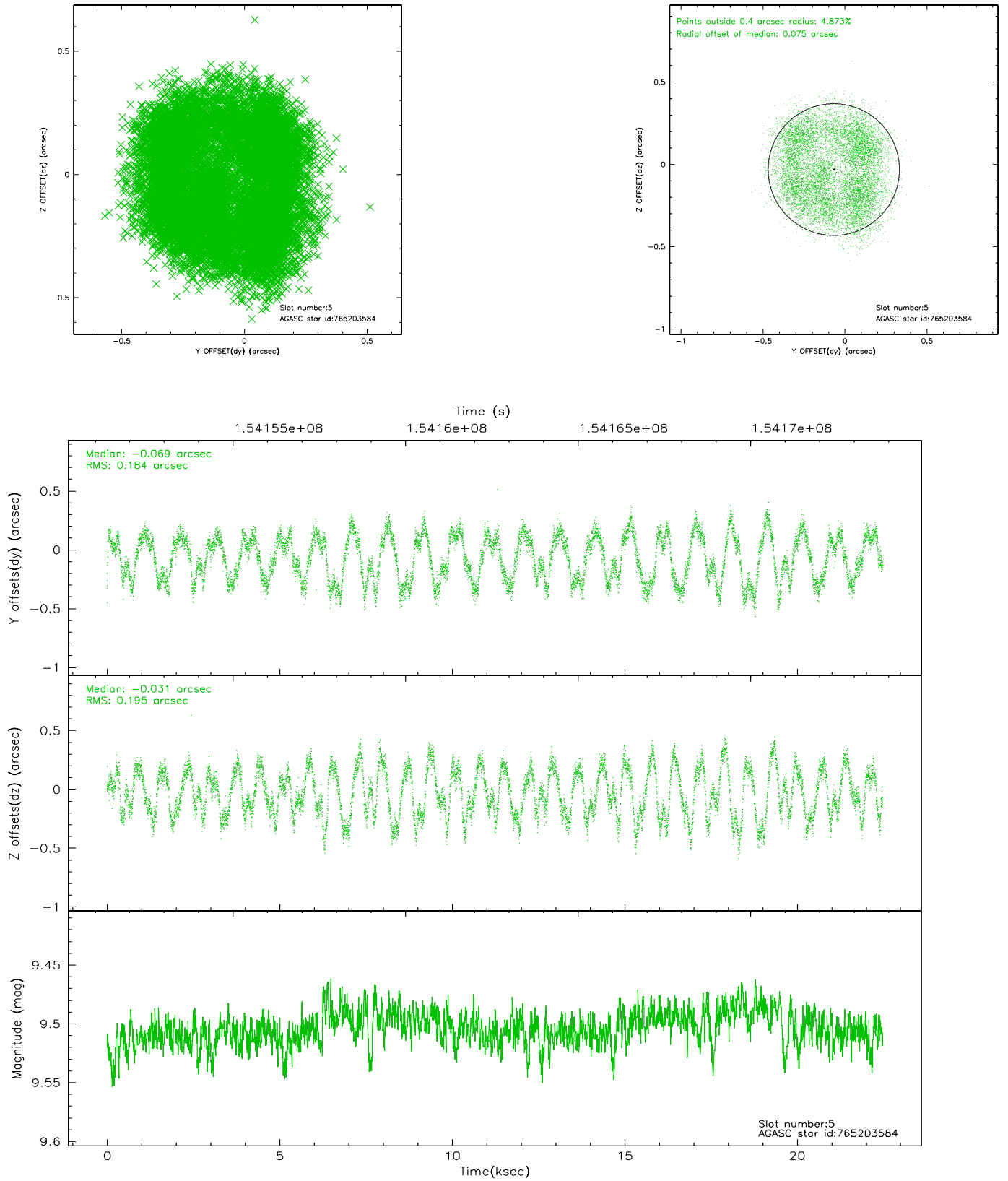
### 2.4.1 Slot 3



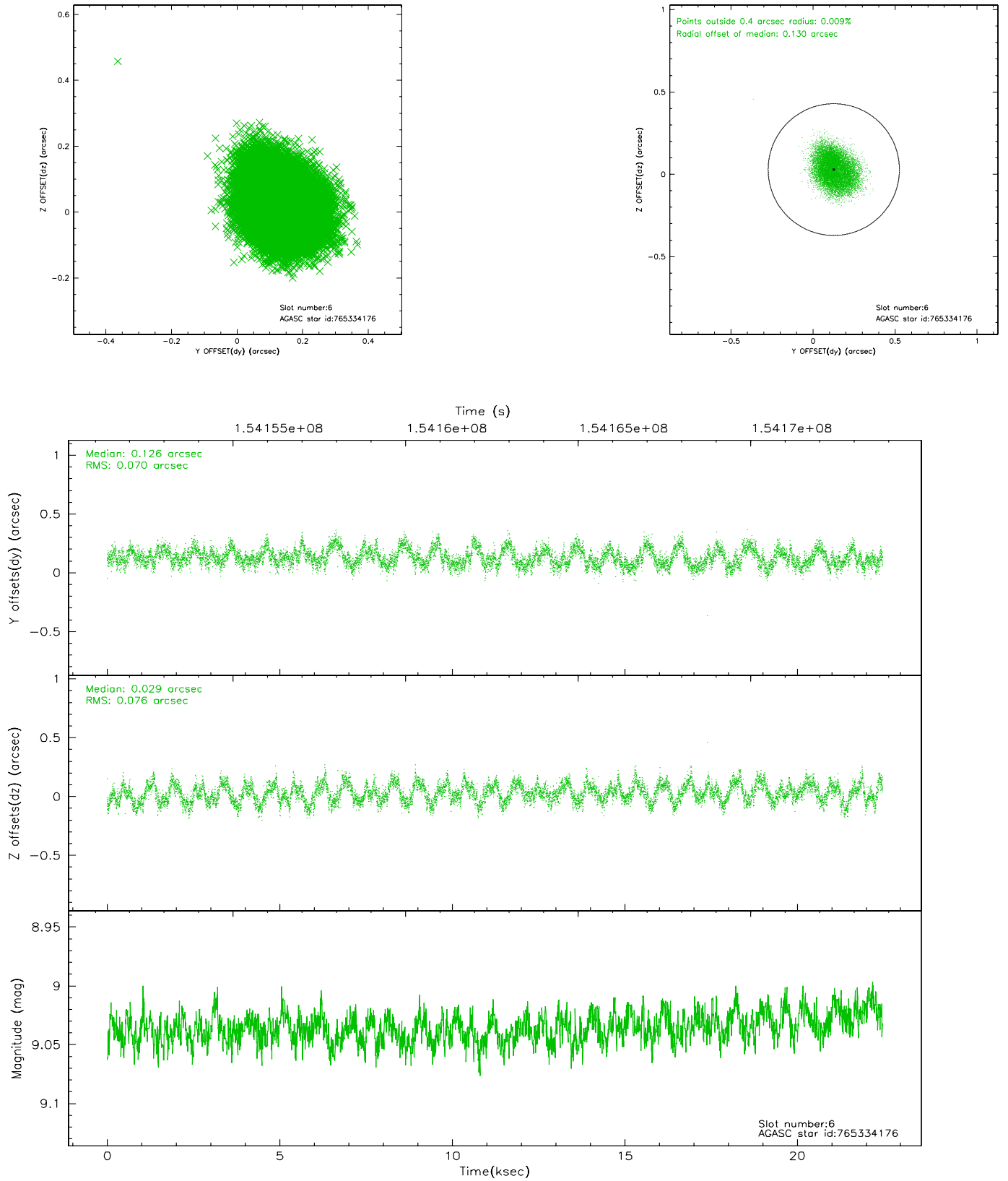
## 2.4.2 Slot 4



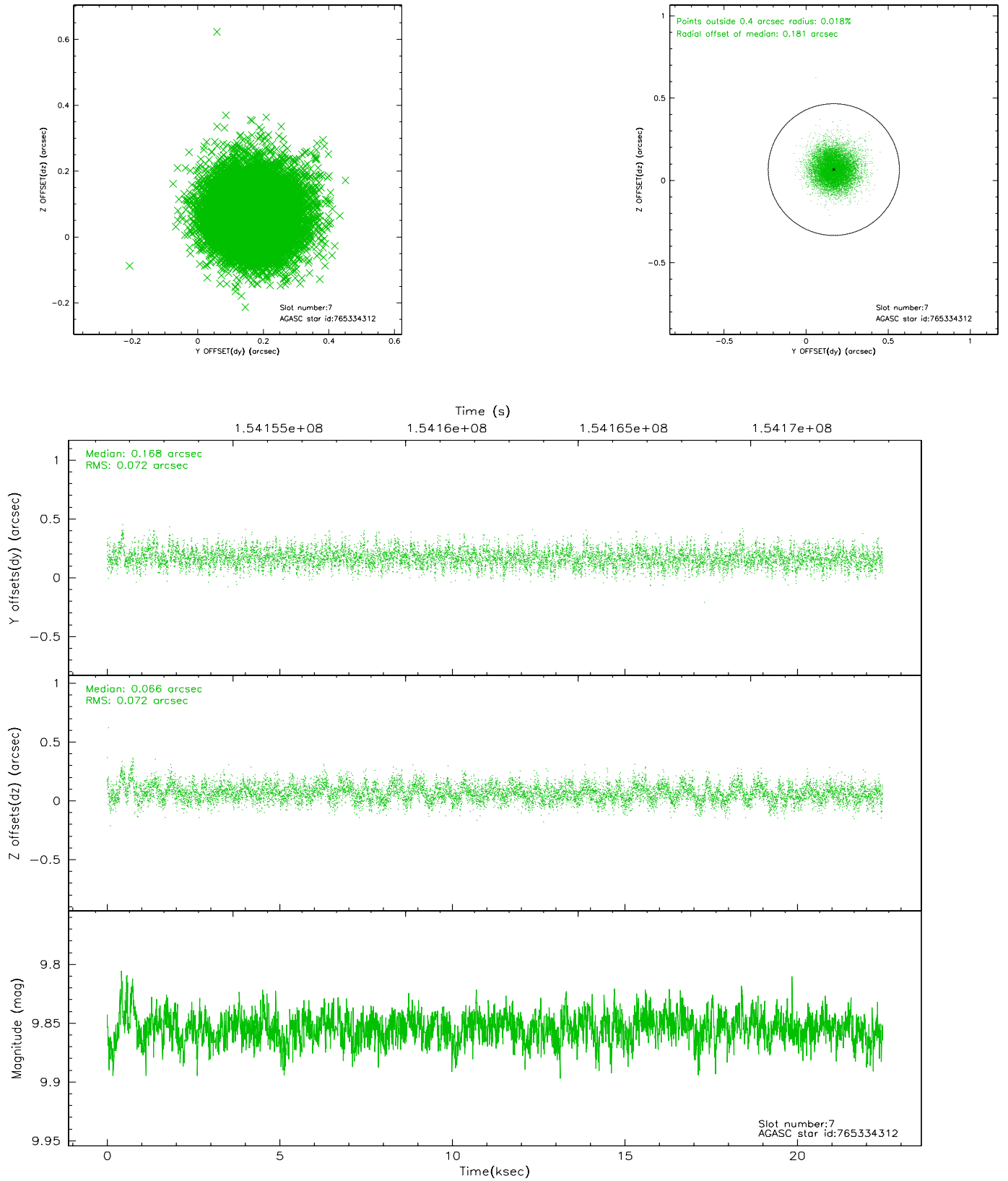
### 2.4.3 Slot 5



## 2.4.4 Slot 6

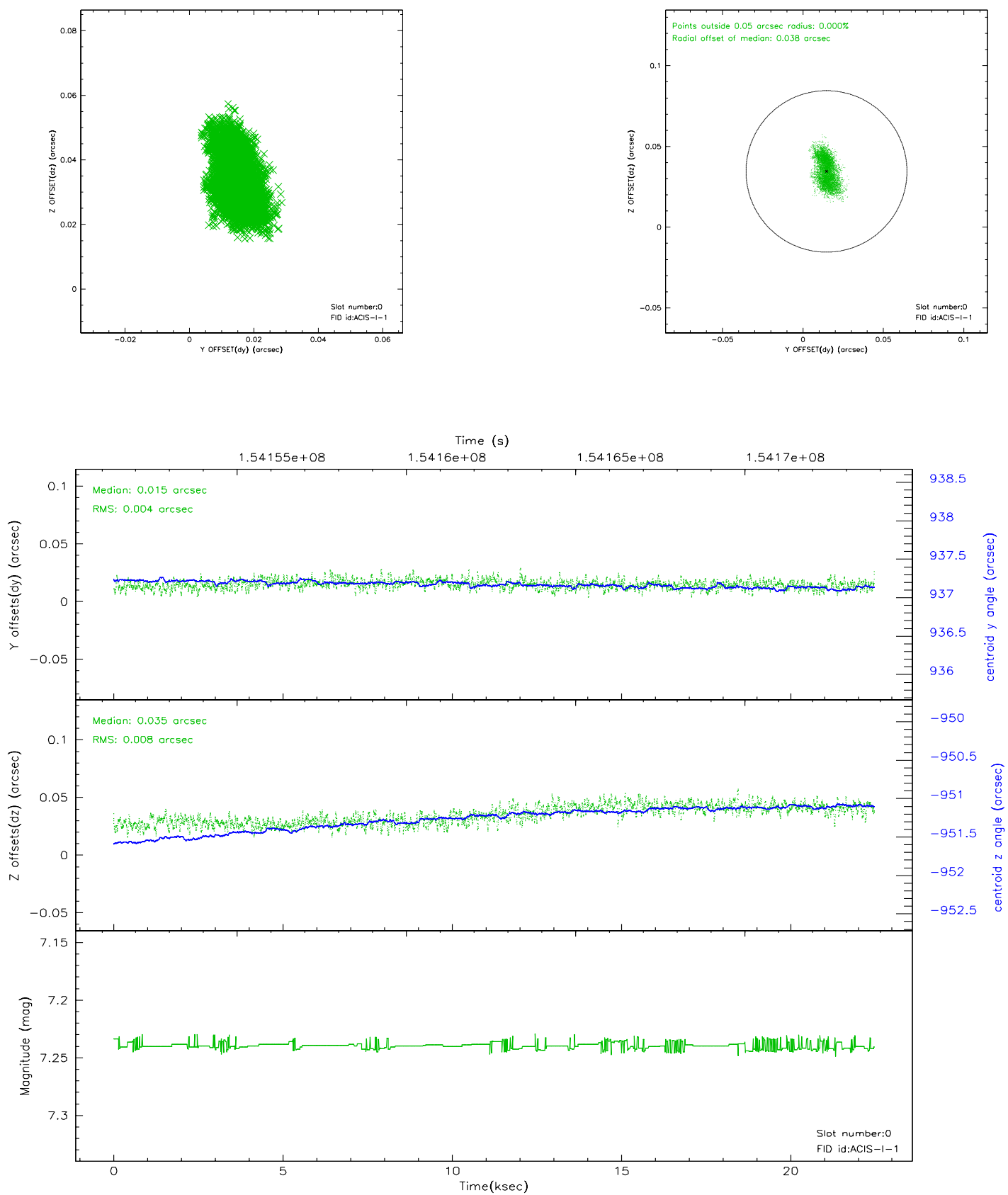


## 2.4.5 Slot 7

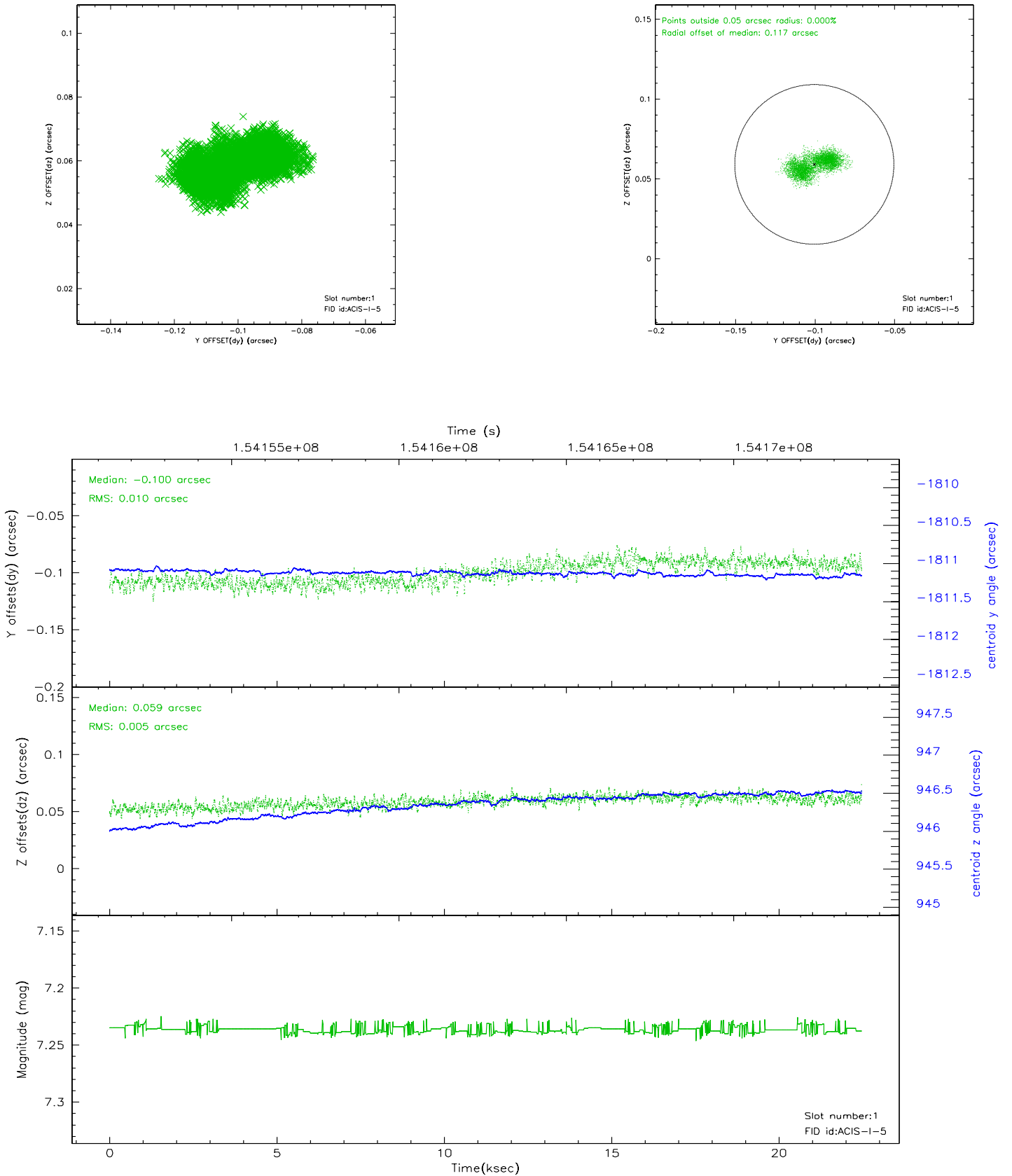


## 2.5 FID Slots

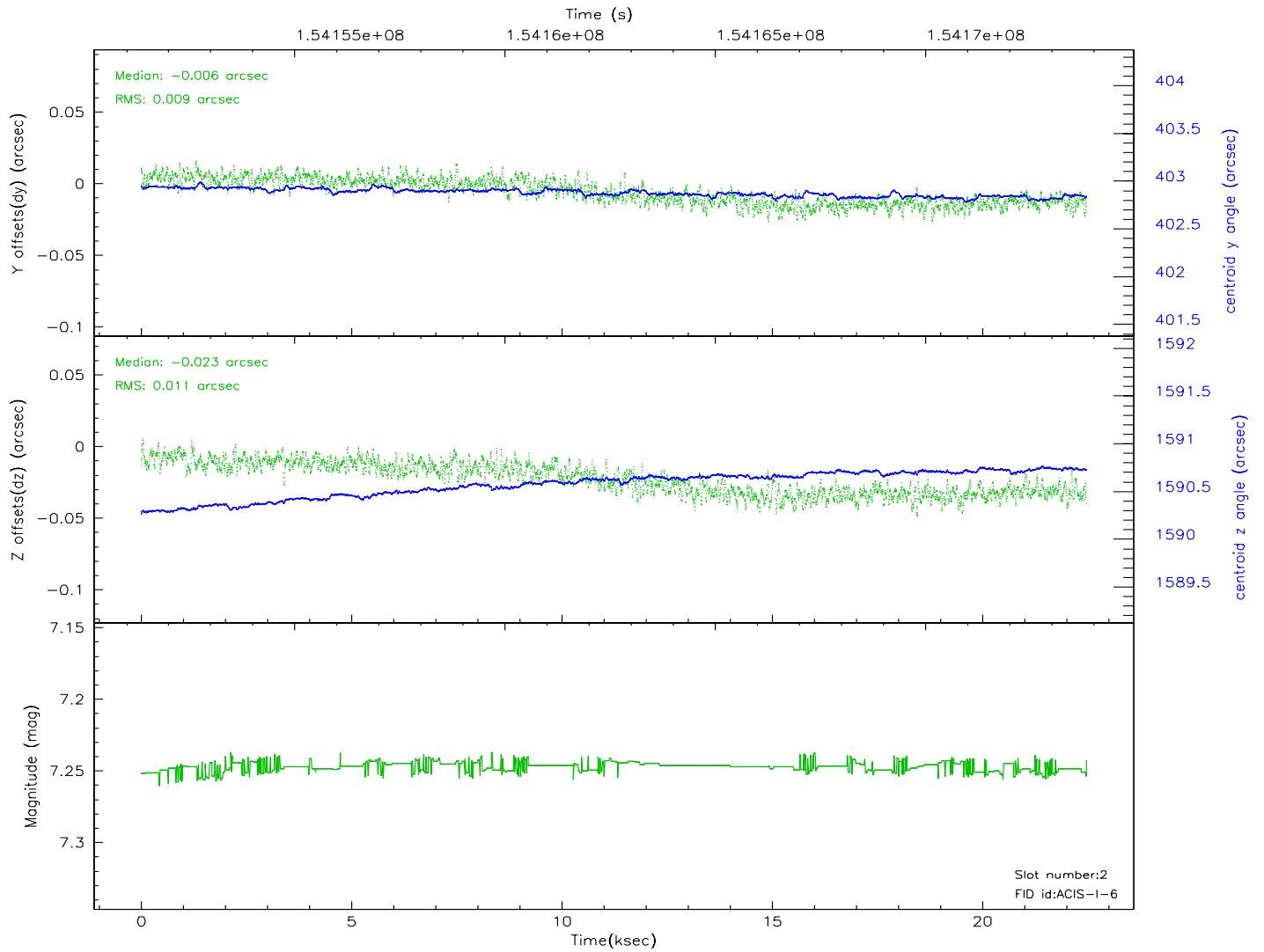
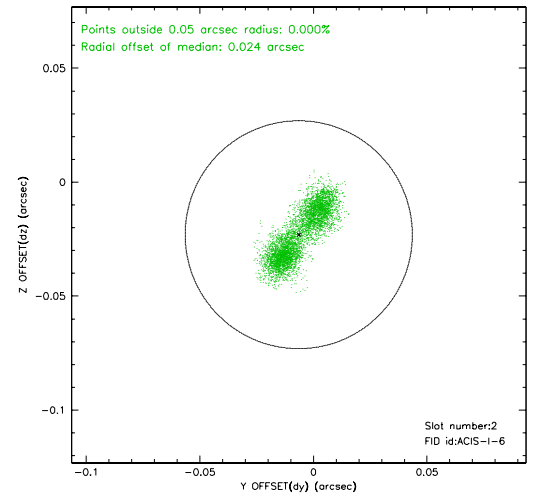
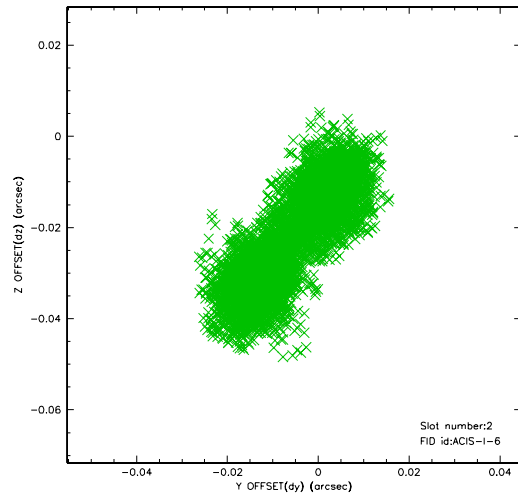
### 2.5.1 Slot 0



## 2.5.2 Slot 1

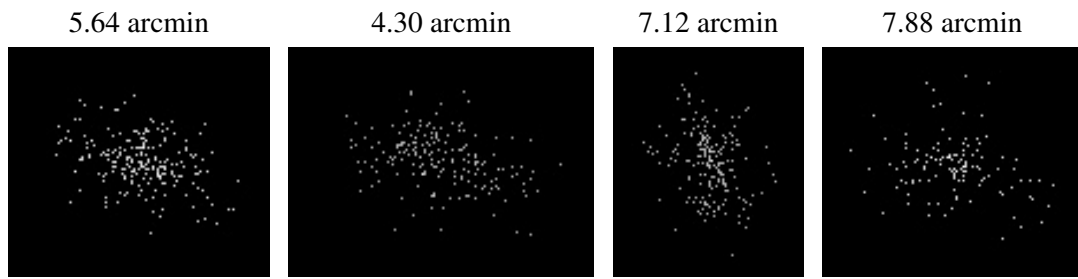


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.10.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	21.889

### A.2 Comments