

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 4469 - L2 Version 001  
Chandra X-Ray Center

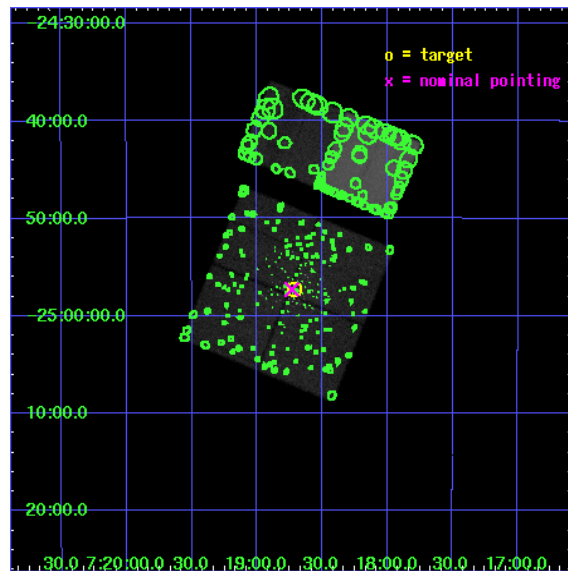
L2 Processing Date : Jun 22 2006

## 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

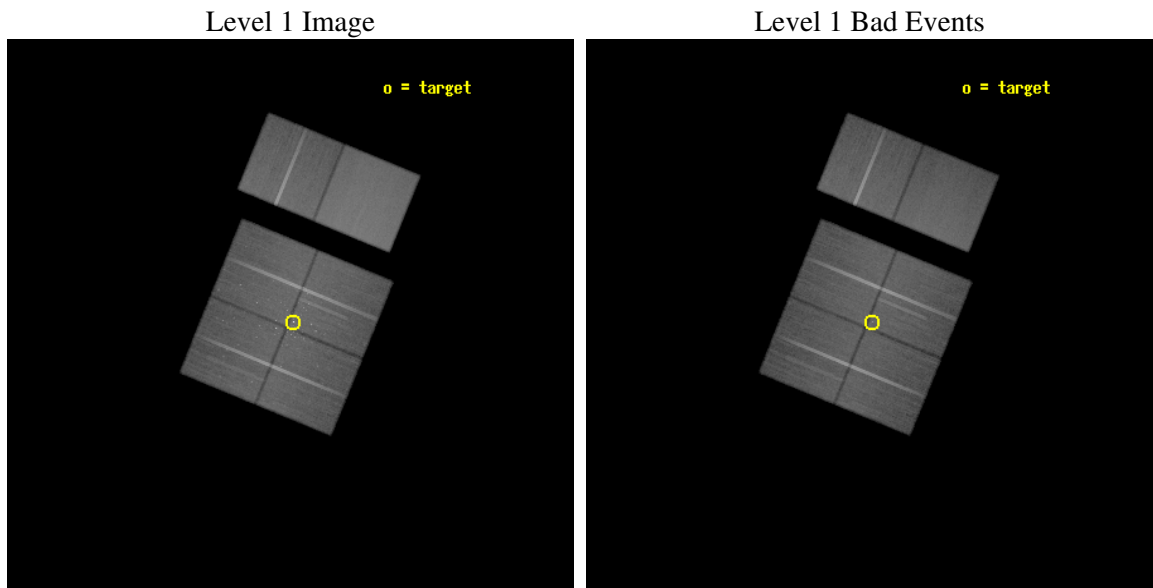
seq_num	200238
obs_id	4469
title	AN X-RAY STUDY OF THE YOUNG OPEN CLUSTER NGC 2362
observer	Dr. Stephen Murray
object	NGC 2362
dtcycle	0
cycle	P
ra_targ	109.678333
dec_targ	-24.955139
ra_nom	109.68343607986
dec_nom	-24.955194094239
roll_nom	22.312752840564
revision	2
ontime	99139.158640385
livetime	97883.798919246
ontime0	99135.917670101
ontime1	99139.158640385
ontime2	99139.158640414
ontime3	99139.158640385
ontime6	99139.158660382
ontime7	99142.399630666
l2events	650581



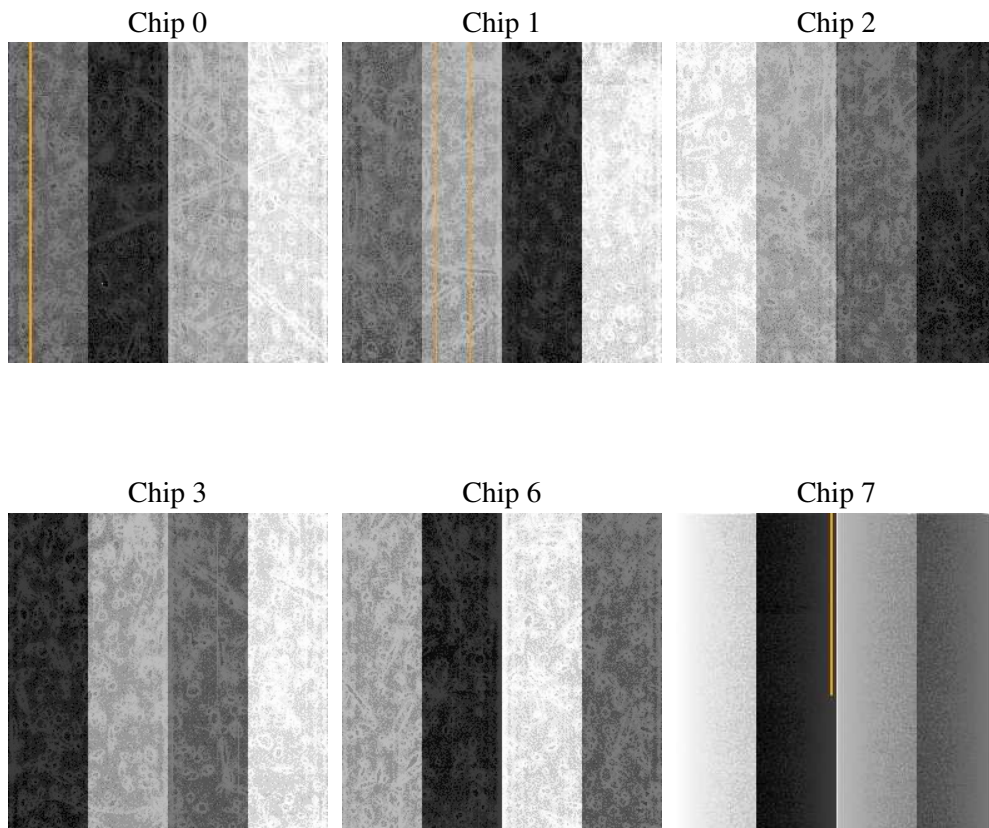
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldsver	3.2.2
date	2006-06-22T10:16:48
revision	2

sched_exp_time	99000.000000
ontime	99181.376392215
ontime0	99178.135421932
ontime1	99181.376392215
ontime2	99181.376392245
ontime3	99181.376392215
ontime6	99181.376412213
ontime7	99184.617382497
l1events	3716578

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	540402	554101	592235	600940	616255	812645
rejected events	461832	472719	513362	512721	543221	504851
rejected %	85%	85%	86%	85%	88%	62%

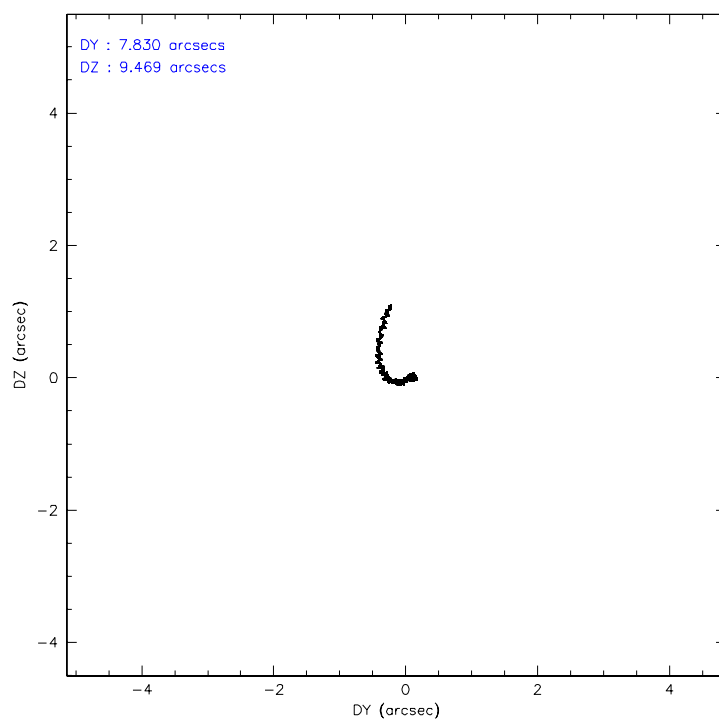
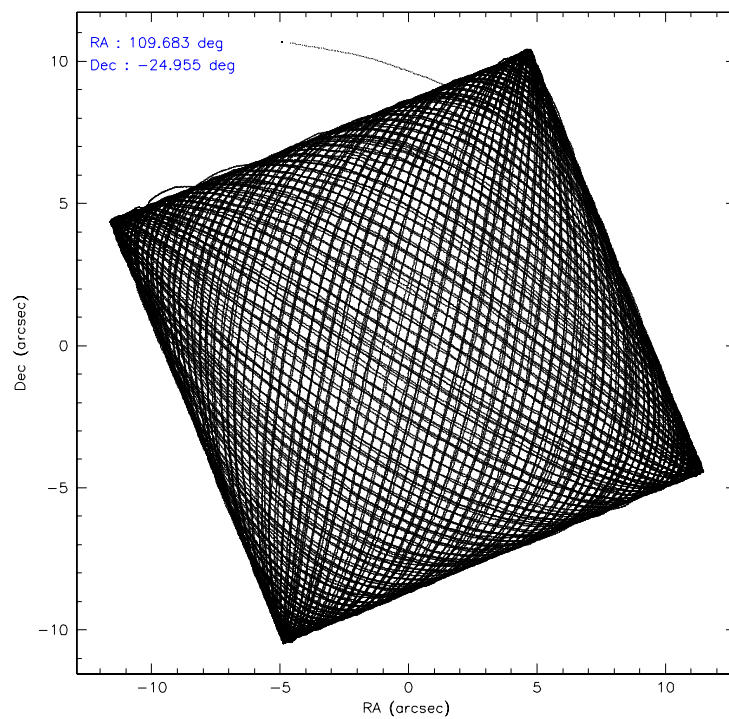
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	36035	34850	38280	46583	29281	17617
	6%	6%	6%	7%	4%	2%
grade 1 events	338	298	412	697	269	527
	0%	0%	0%	0%	0%	0%
grade 2 events	15753	16677	14985	15004	15130	75712
	2%	3%	2%	2%	2%	9%
grade 3 events	7277	7450	6955	7133	7147	15841
	1%	1%	1%	1%	1%	1%
grade 4 events	6742	7553	6874	7262	6838	15404
	1%	1%	1%	1%	1%	1%
grade 5 events	24691	25233	23441	27183	28727	53975
	4%	4%	3%	4%	4%	6%
grade 6 events	12799	14882	11806	12287	14679	183363
	2%	2%	1%	2%	2%	22%
grade 7 events	436767	447158	489482	484791	514184	450206
	80%	80%	82%	80%	83%	55%

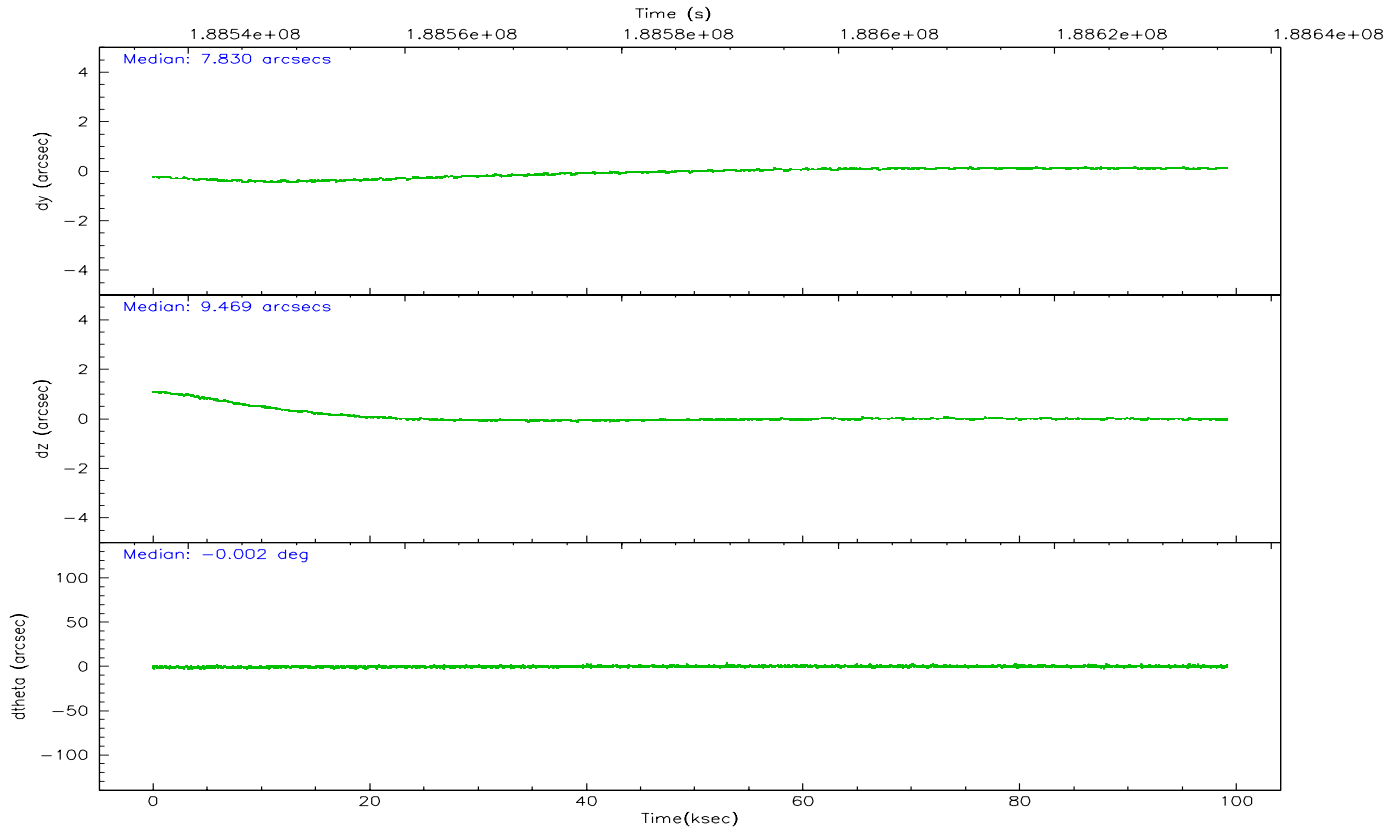
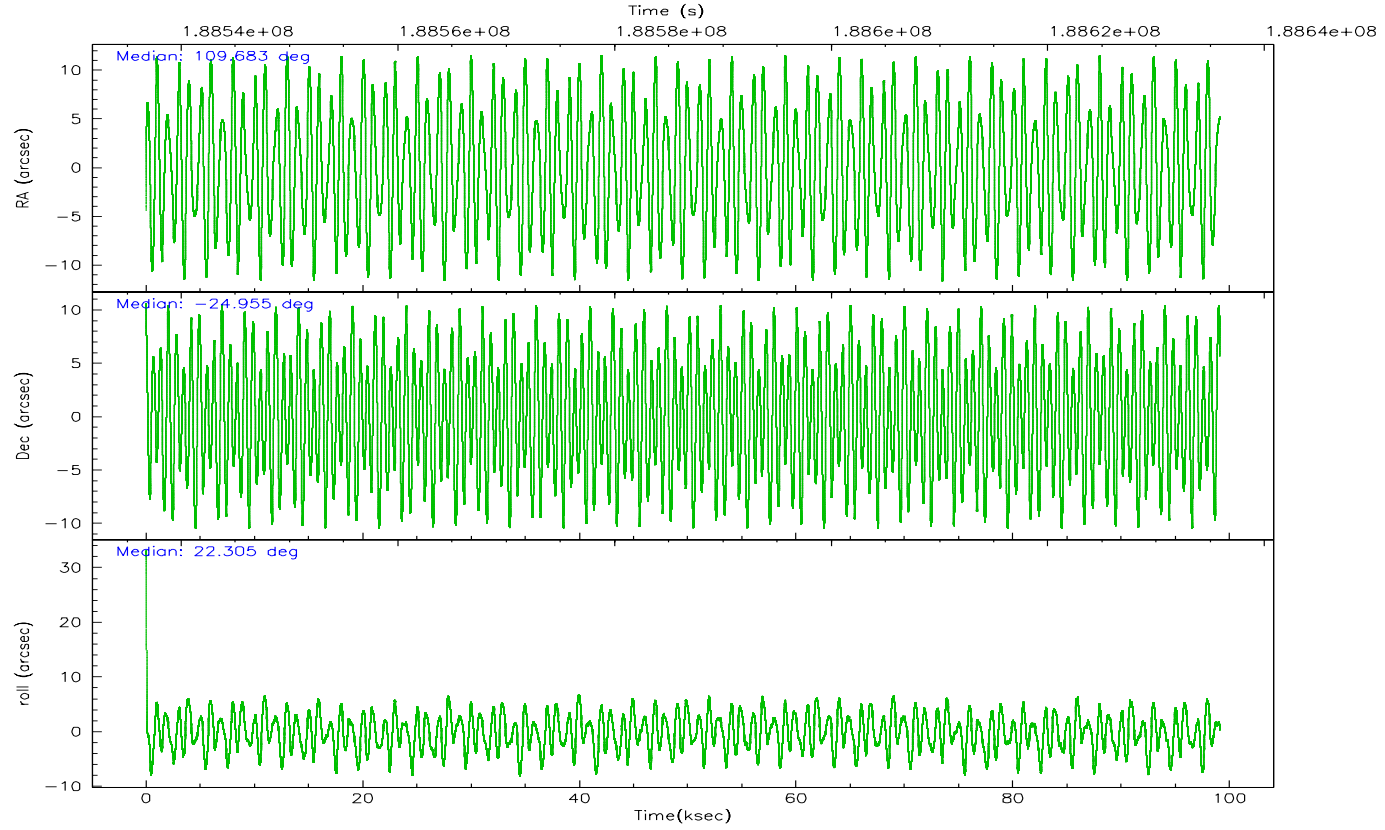


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	109.665080	109.6834360798552	Alternating exposures requested	N	N
Pointing Dec	-24.976932	-24.95519409423945	Primary exposure time	0.000000	3.2
Pointing Roll	22.096315	22.31275284056386			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	188536907.184000	188535838.52712			
Observation start date	2003-12-23T03:20:43	2003-12-23T03:03:58			
Observation end time	188635907.184000	188636593.9815			
Observation end date	2003-12-24T06:50:43	2003-12-24T07:03:13			
Read mode	TIMED	TIMED			

## 2.3 Aspect



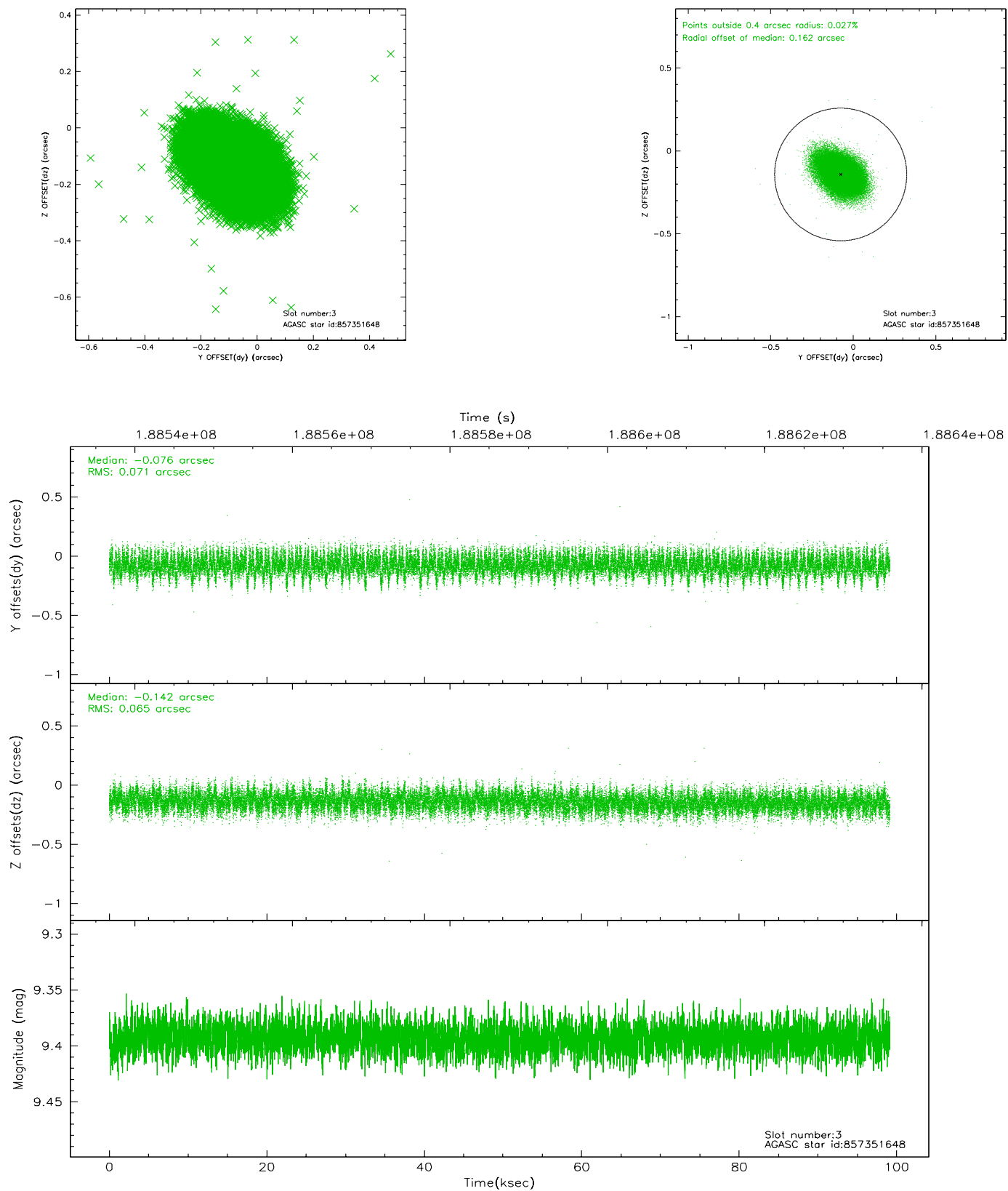


### Slot Statistics

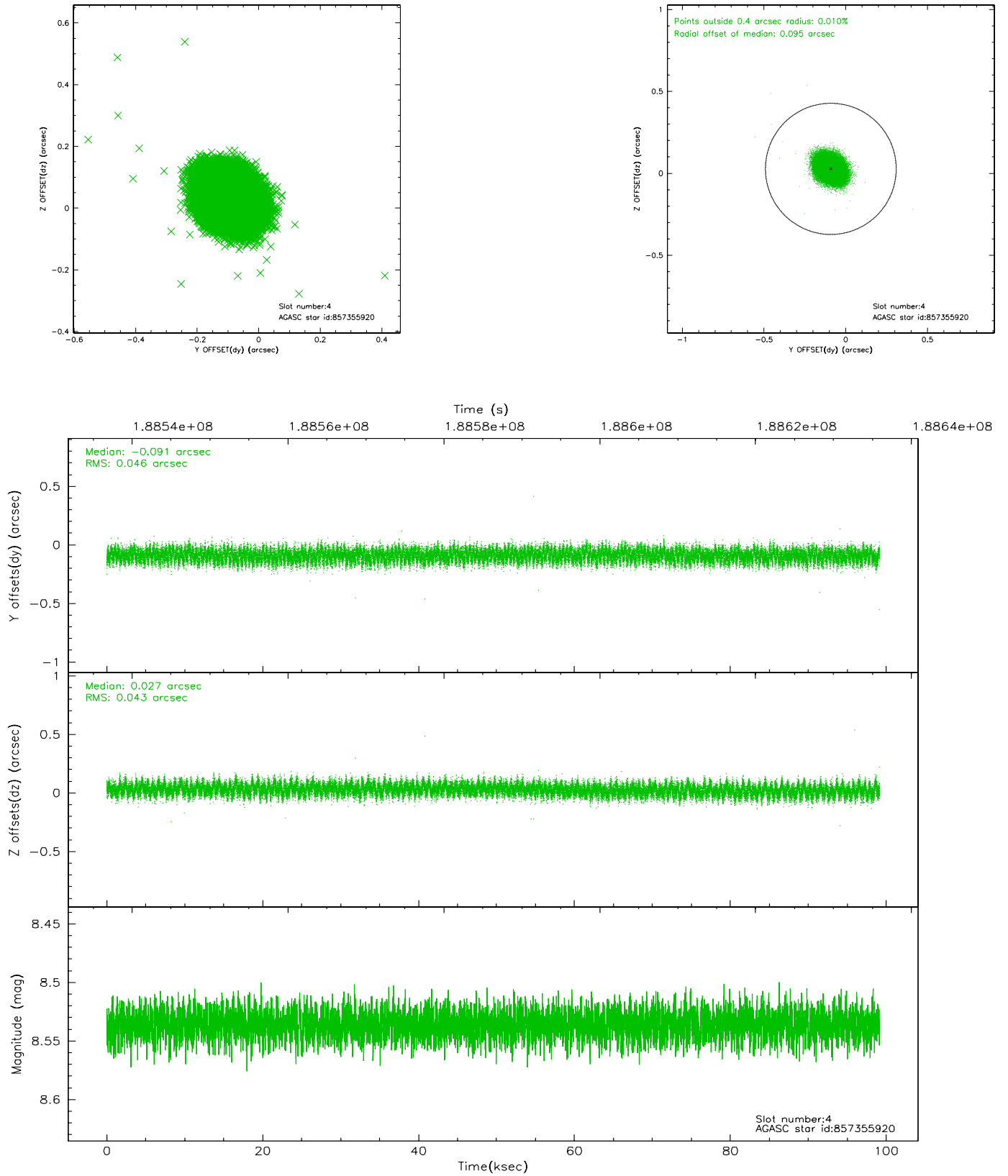
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.14	24181	-0.051	-0.035	0.013	0.024	0.000000	0.000000	-762.33	-839.41
1	FID	ACIS-I-4	7.18	24181	0.113	0.045	0.014	0.025	0.000000	0.000000	2151.95	1066.86
2	FID	ACIS-I-5	7.22	24184	-0.164	0.059	0.015	0.029	0.000000	0.000000	-1816.36	1064.66
3	GUIDE	857351648	9.39	48341	-0.076	-0.142	0.102	0.169	109.161947	-24.543697	-941.24	2061.94
4	GUIDE	857355920	8.54	48352	-0.091	0.027	0.068	0.107	109.209605	-24.691775	-995.26	1509.35
5	GUIDE	857363000	8.01	48357	-0.048	0.125	0.073	0.117	109.327654	-25.773588	-2092.54	-2247.16
6	GUIDE	857375848	8.80	48350	0.154	-0.111	0.078	0.130	109.695507	-24.655080	528.29	1036.16
7	GUIDE	857369368	9.36	24130	0.124	0.199	0.095	0.153	110.148795	-25.173974	1192.88	-1252.16

## 2.4 Star Slots

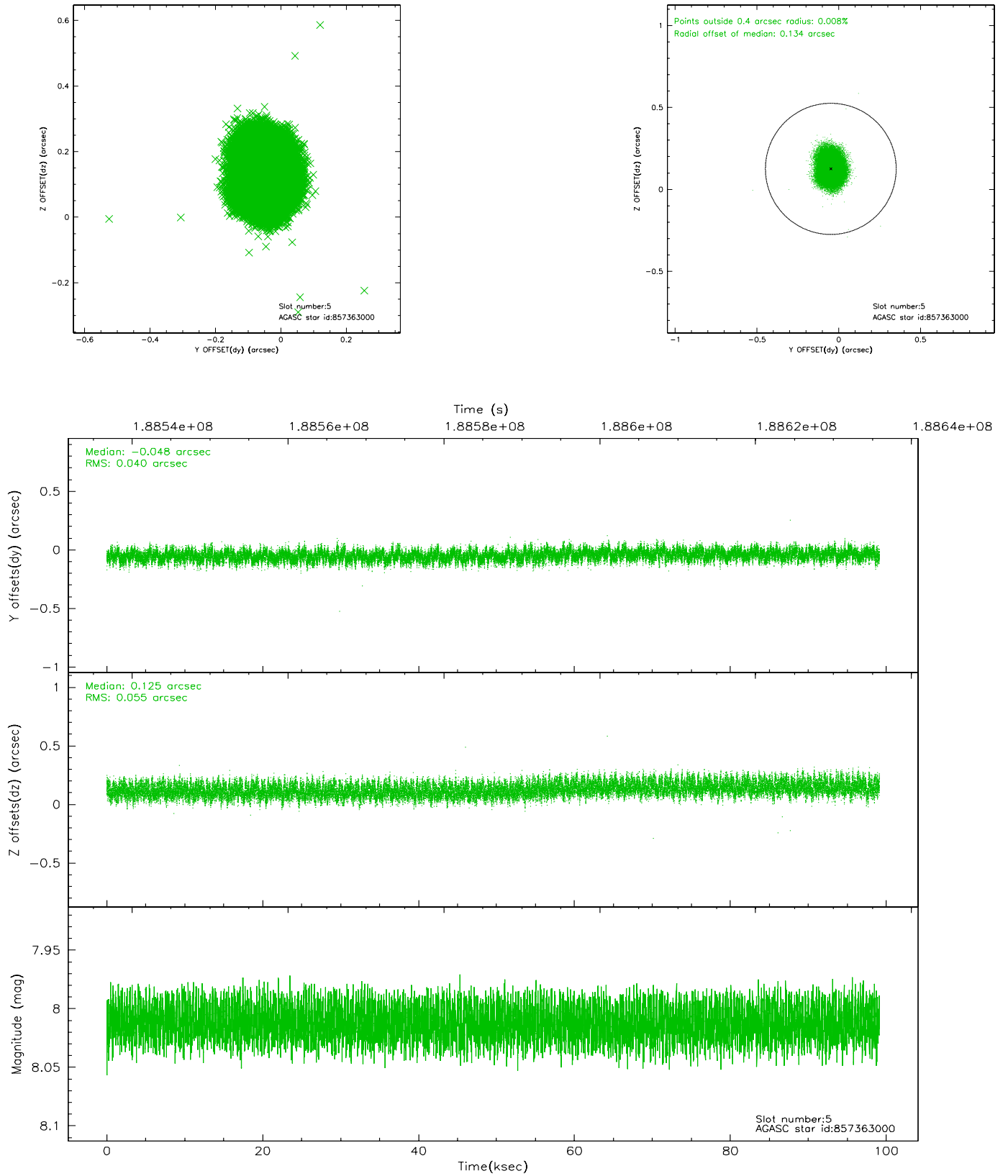
### 2.4.1 Slot 3



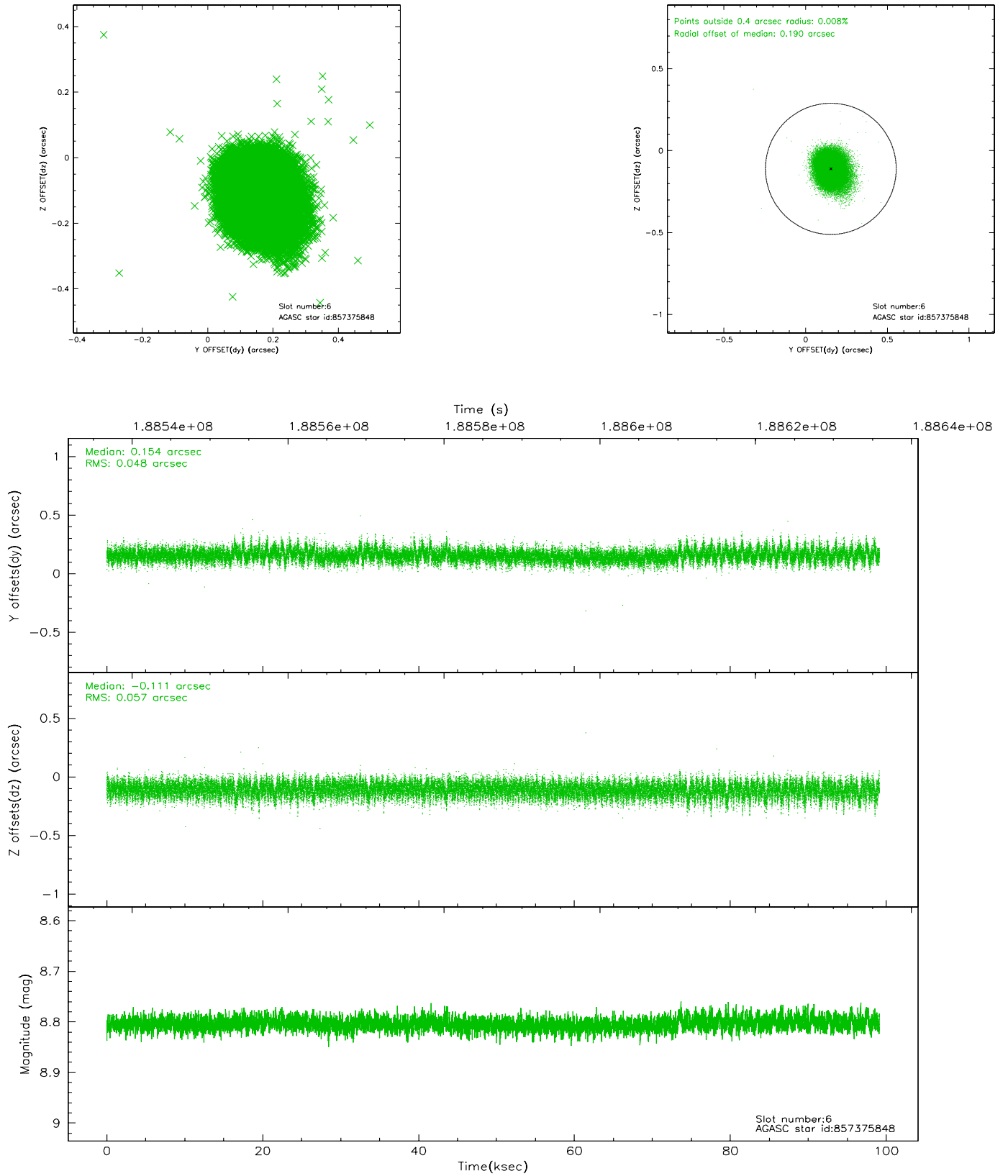
## 2.4.2 Slot 4



### 2.4.3 Slot 5

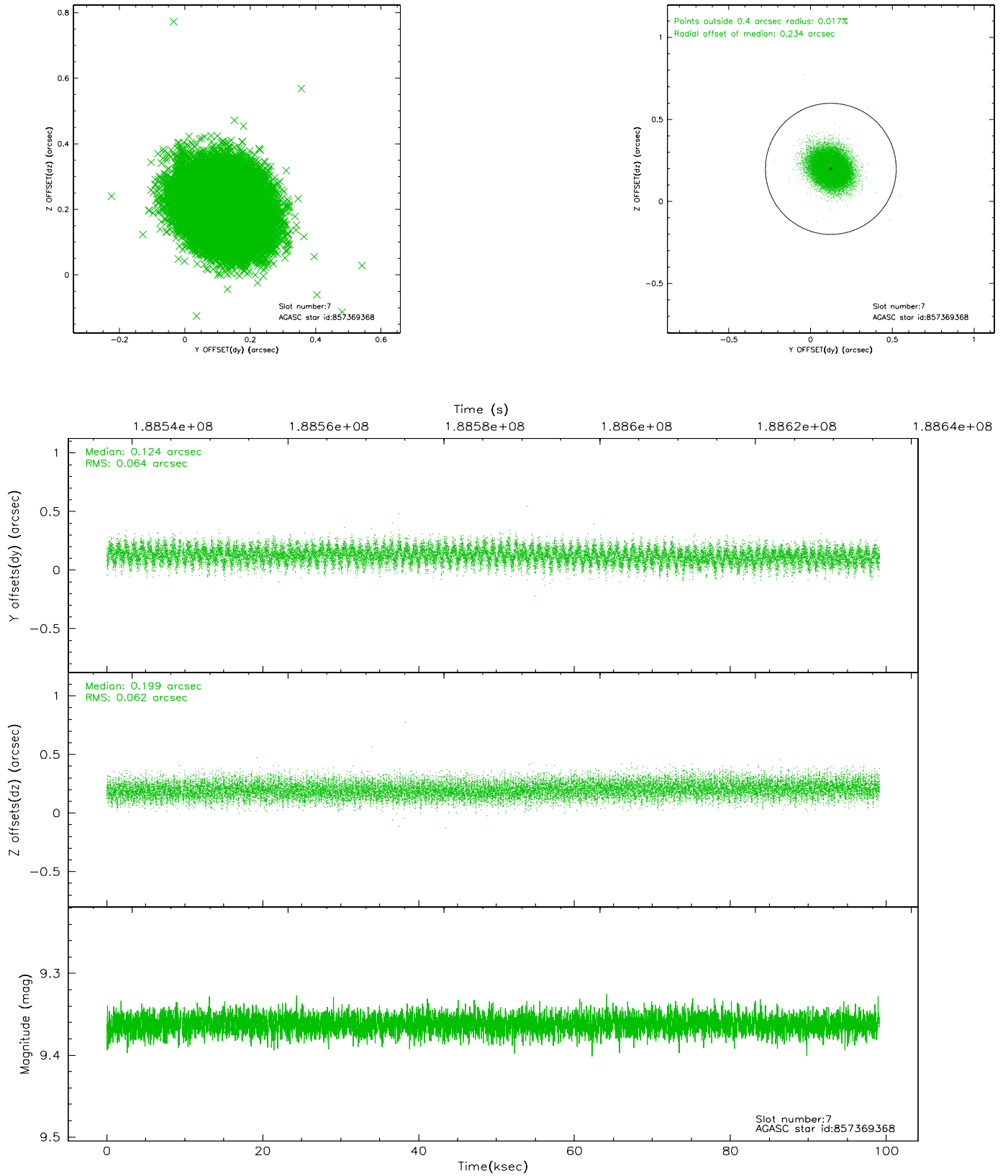


## 2.4.4 Slot 6



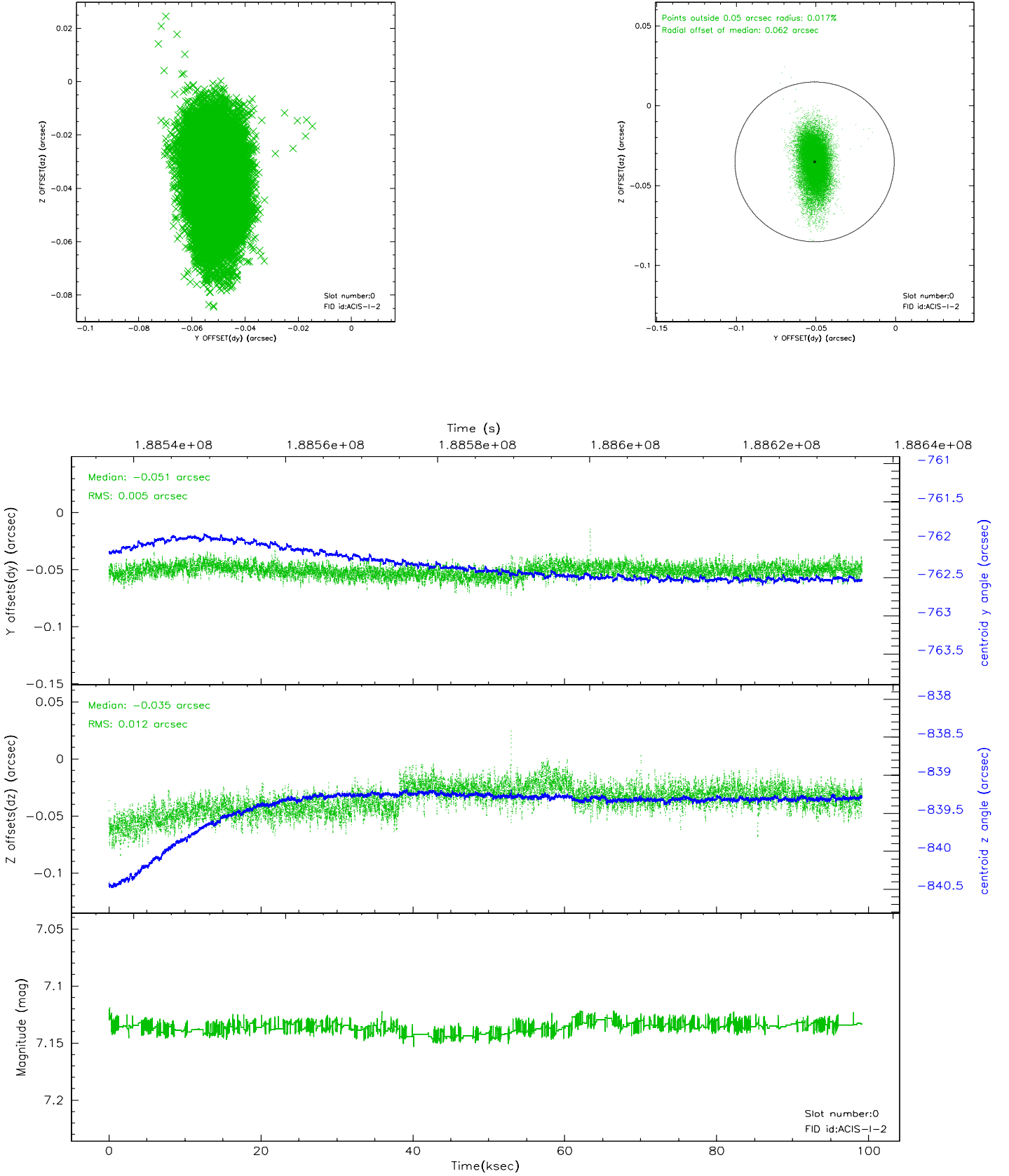


## 2.4.5 Slot 7

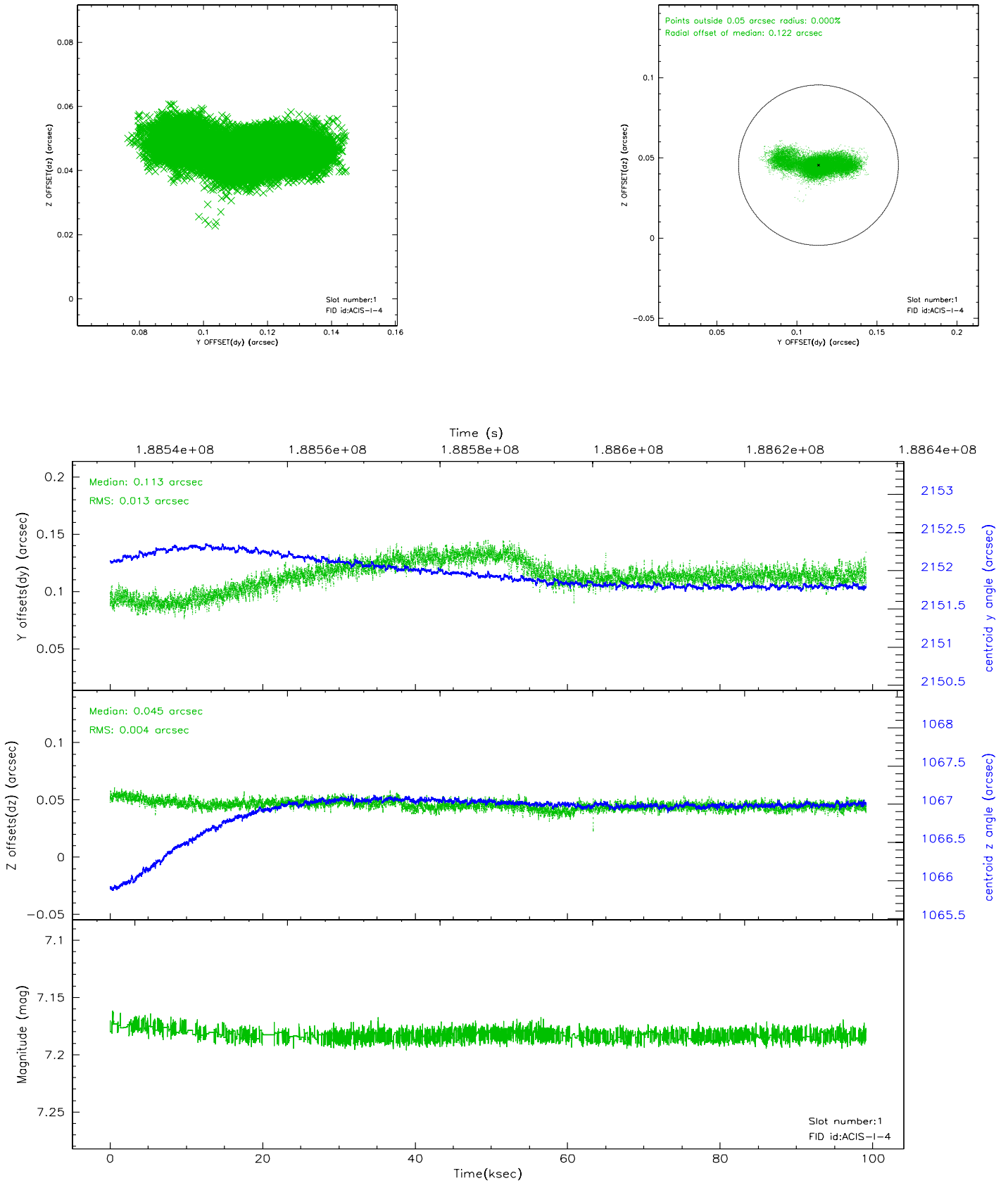


## 2.5 FID Slots

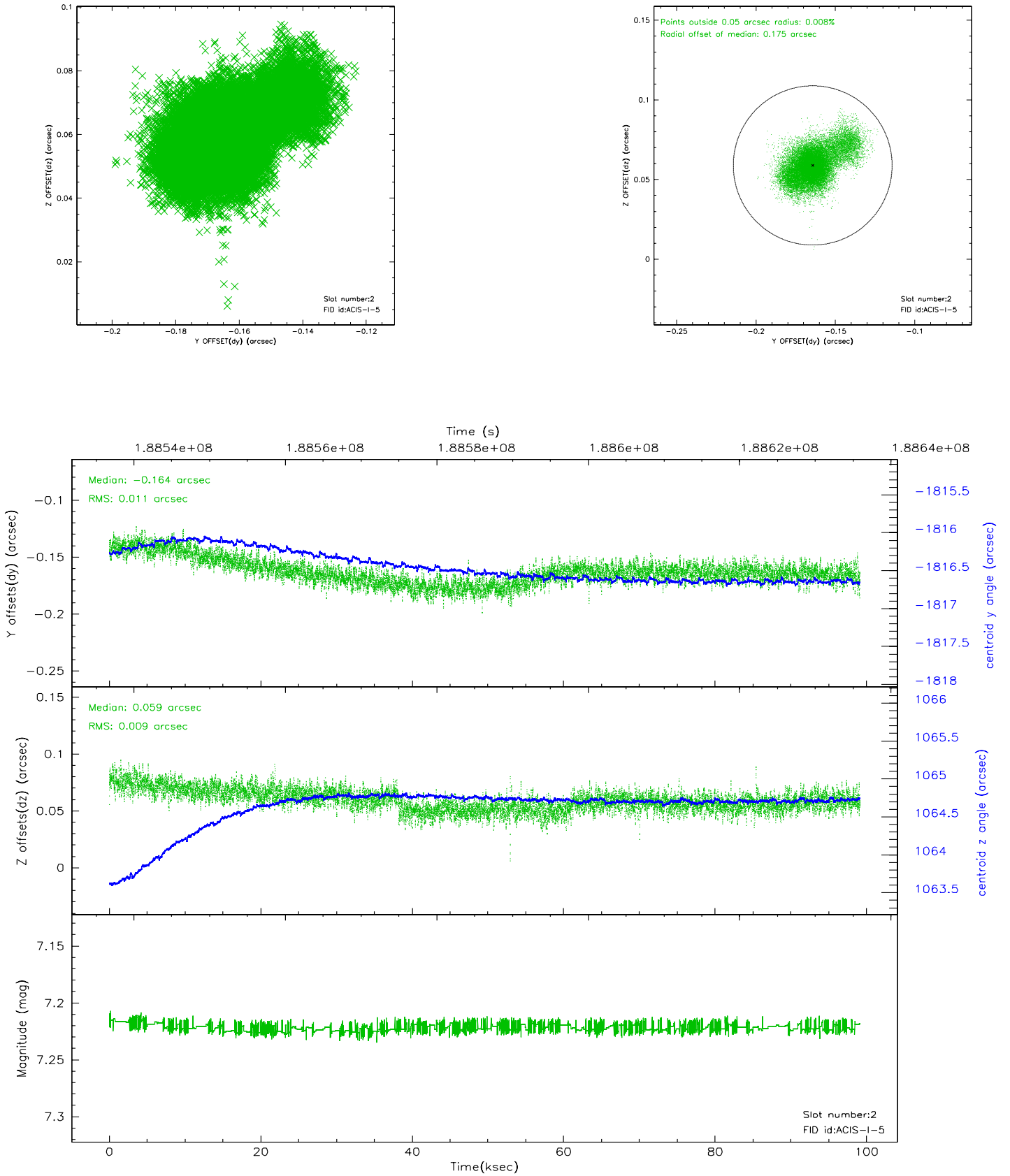
### 2.5.1 Slot 0



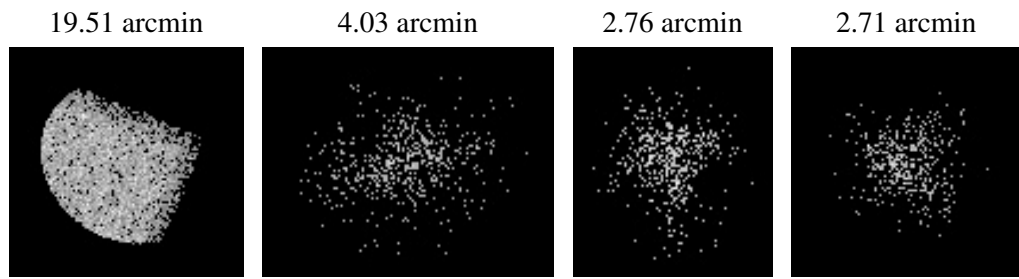
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	99.142

## A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.