

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 2884 - L2 Version 001  
Chandra X-Ray Center

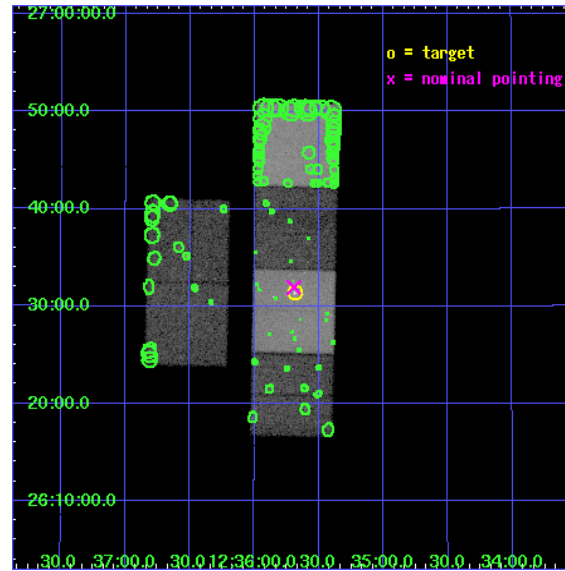
L2 Processing Date : Jul 20 2006

## 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

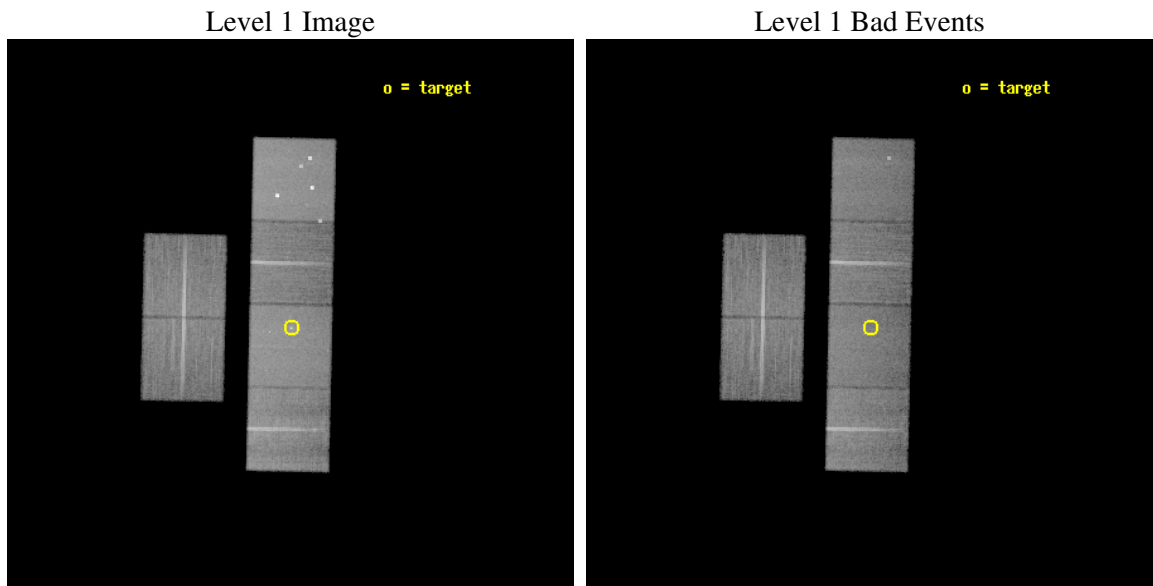
seq_num	600221
obs_id	2884
title	ISOLATED ELLIPTICAL GALAXIES
observer	Professor Trevor Ponman
object	NGC 4555
dtcycle	0
cycle	P
ra_targ	188.921667
dec_targ	26.523111
ra_nom	188.92333839846
dec_nom	26.532642831285
roll_nom	91.233780953606
revision	3
ontime	30351.99988693
livetime	29967.664588581
ontime2	30348.758896768
ontime3	30351.99988693
ontime5	30351.99988693
ontime6	30351.99988693
ontime7	30351.99988693
ontime8	30351.99988693
l2events	306406



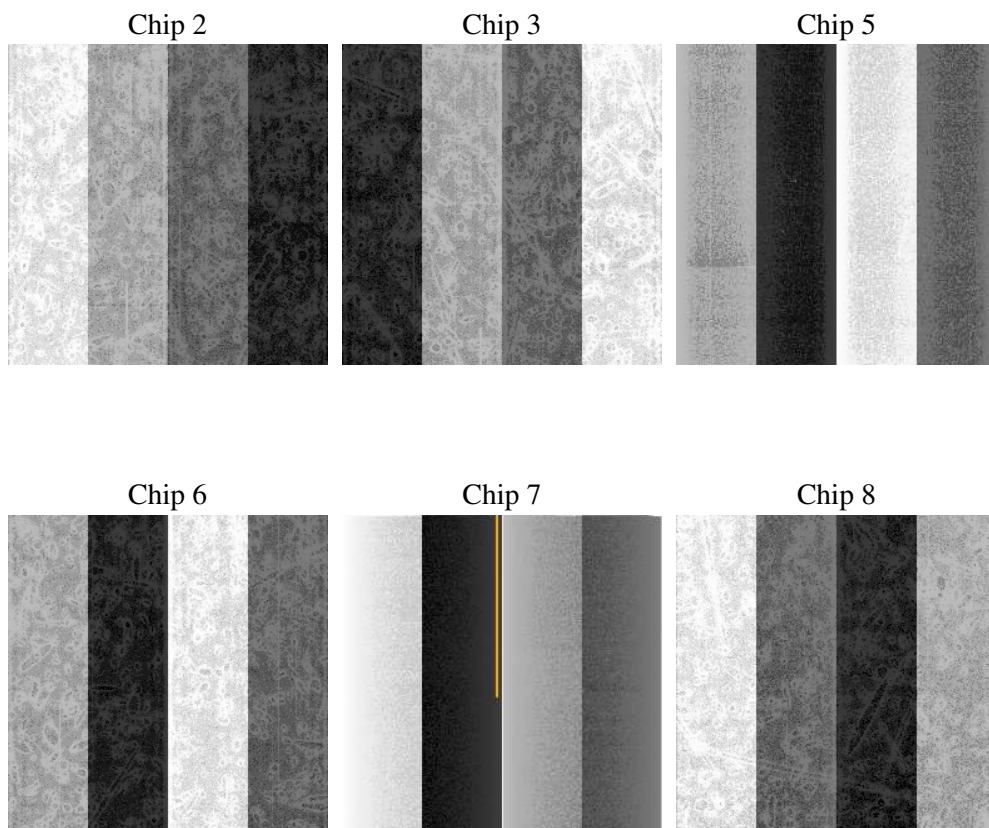
## 2 OBI

### 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	2006-07-20T18:19:16
revision	3

sched_exp_time	30390.000000
ontime	30355.274384409
ontime2	30352.033394247
ontime3	30355.274384409
ontime5	30355.274384409
ontime6	30355.274384409
ontime7	30355.274384409
ontime8	30355.274384409
l1events	1412327

### 2.1.4 Events

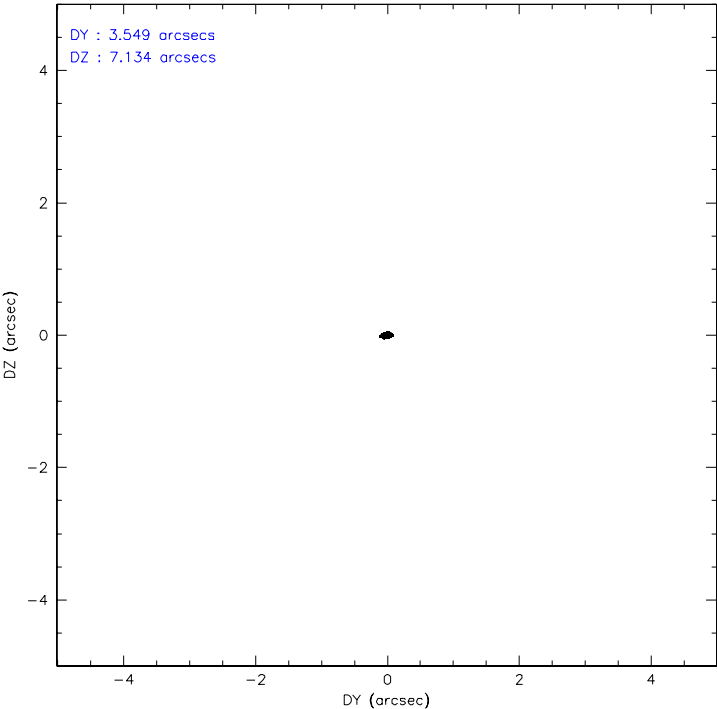
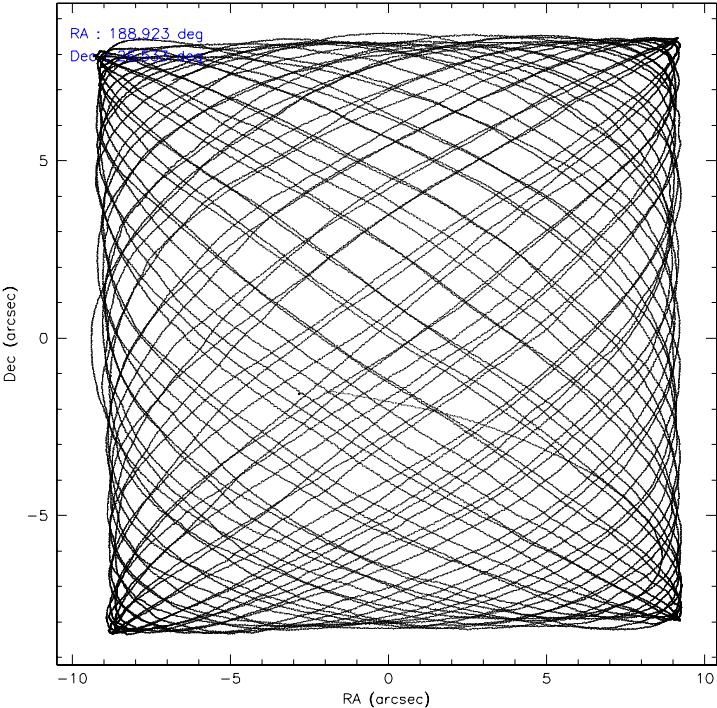
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	202442	192077	304222	195623	269628	248335
rejected events	179556	169824	162557	172047	163326	197119
rejected %	88%	88%	53%	87%	60%	79%

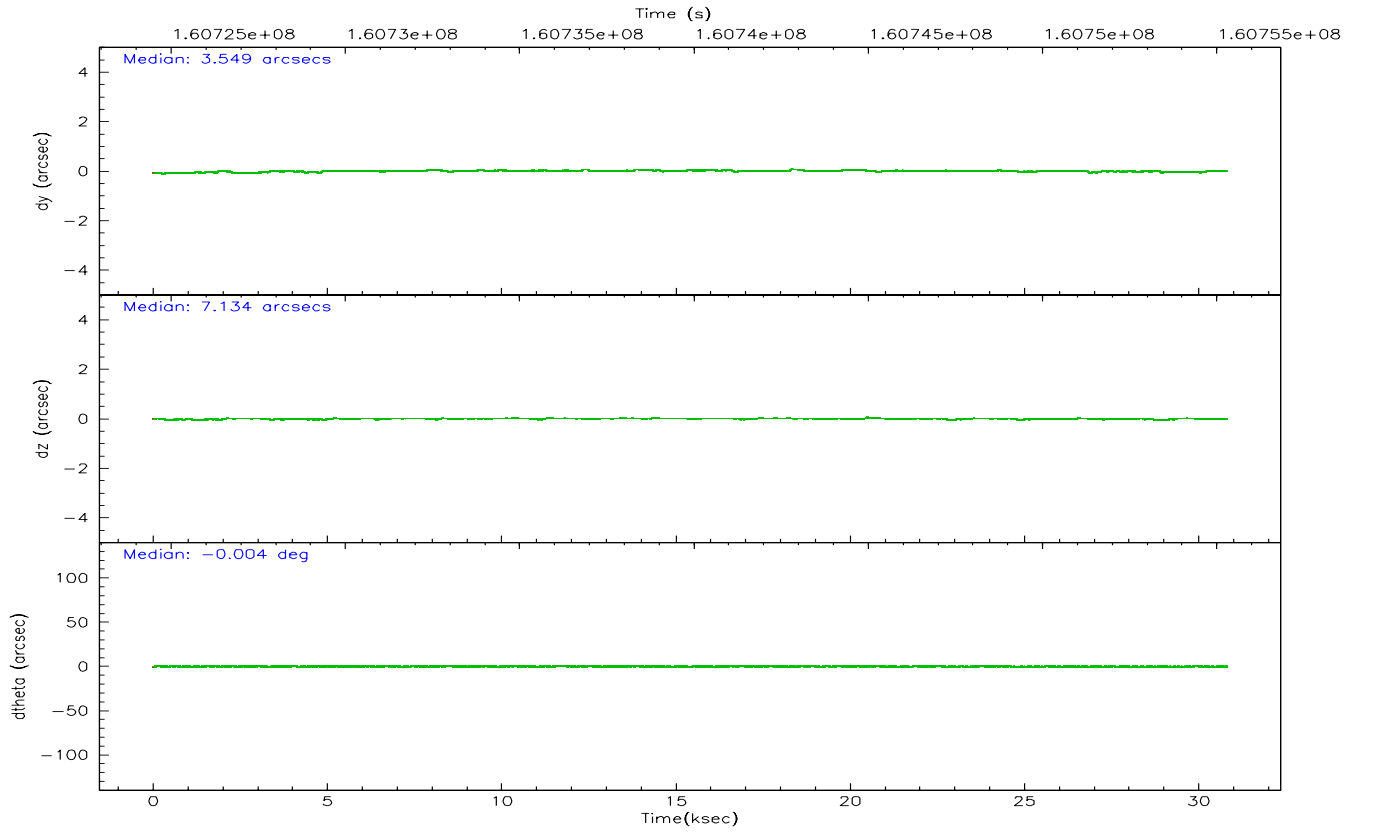
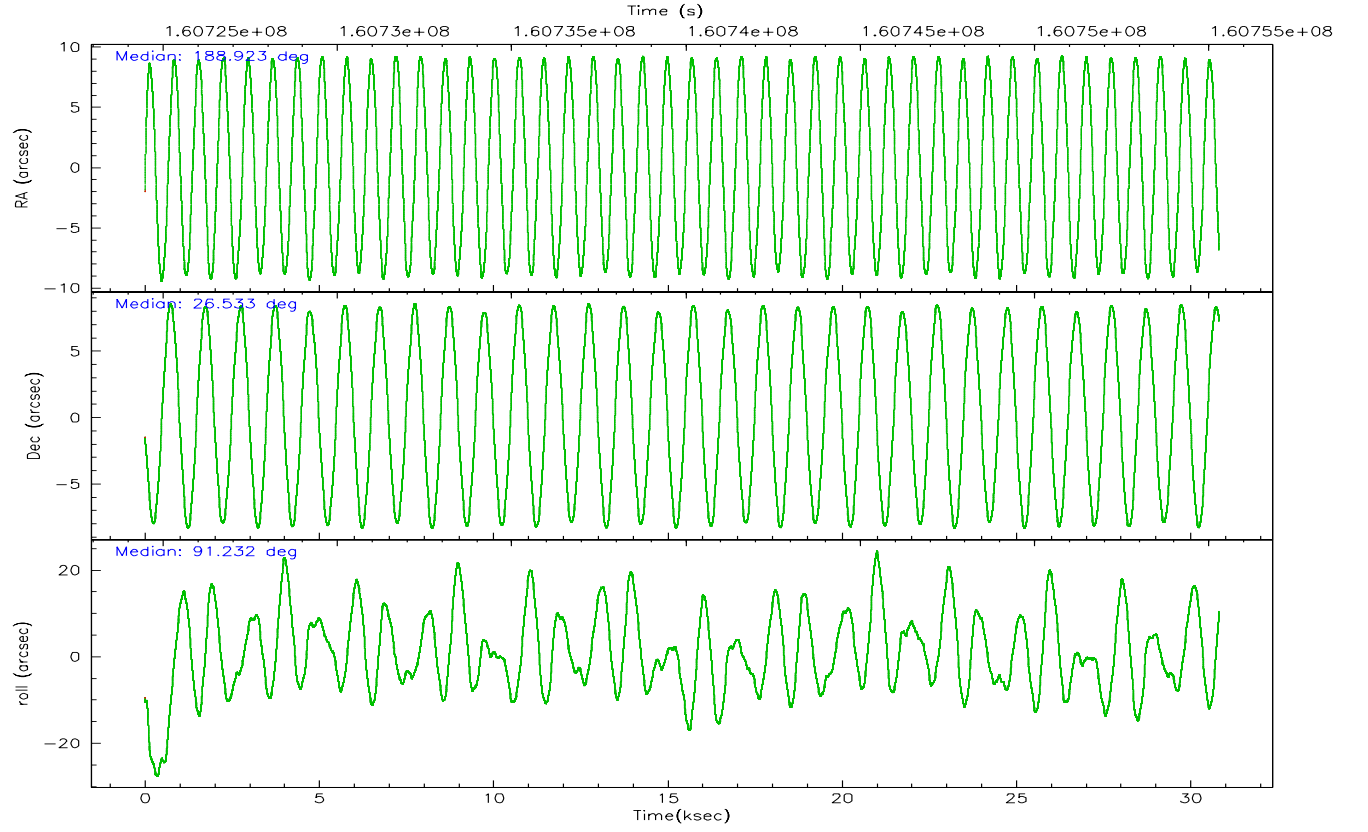
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	10262	9825	21922	9746	7828	16459
	5%	5%	7%	4%	2%	6%
grade 1 events	108	106	287	90	156	176
	0%	0%	0%	0%	0%	0%
grade 2 events	4550	3906	40848	4595	26468	11061
	2%	2%	13%	2%	9%	4%
grade 3 events	2184	2291	2978	2316	5838	5493
	1%	1%	0%	1%	2%	2%
grade 4 events	2167	2289	2810	2257	5559	5117
	1%	1%	0%	1%	2%	2%
grade 5 events	7430	8302	13970	8829	17295	11461
	3%	4%	4%	4%	6%	4%
grade 6 events	3725	3944	73121	4663	60619	13088
	1%	2%	24%	2%	22%	5%
grade 7 events	172016	161414	148286	163127	145865	185480
	84%	84%	48%	83%	54%	74%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	188.939463	188.9233383984619	Alternating exposures requested	N	N
Pointing Dec	26.509583	26.53264283128463	Primary exposure time	0.000000	3.2
Pointing Roll	91.069956	91.23378095360603			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	160724909.184000	160723820.46611			
Observation start date	2003-02-04T05:47:25	2003-02-04T05:30:20			
Observation end time	160755299.184000	160755732.30495			
Observation end date	2003-02-04T14:13:55	2003-02-04T14:22:12			
Read mode	TIMED	TIMED			

## 2.3 Aspect



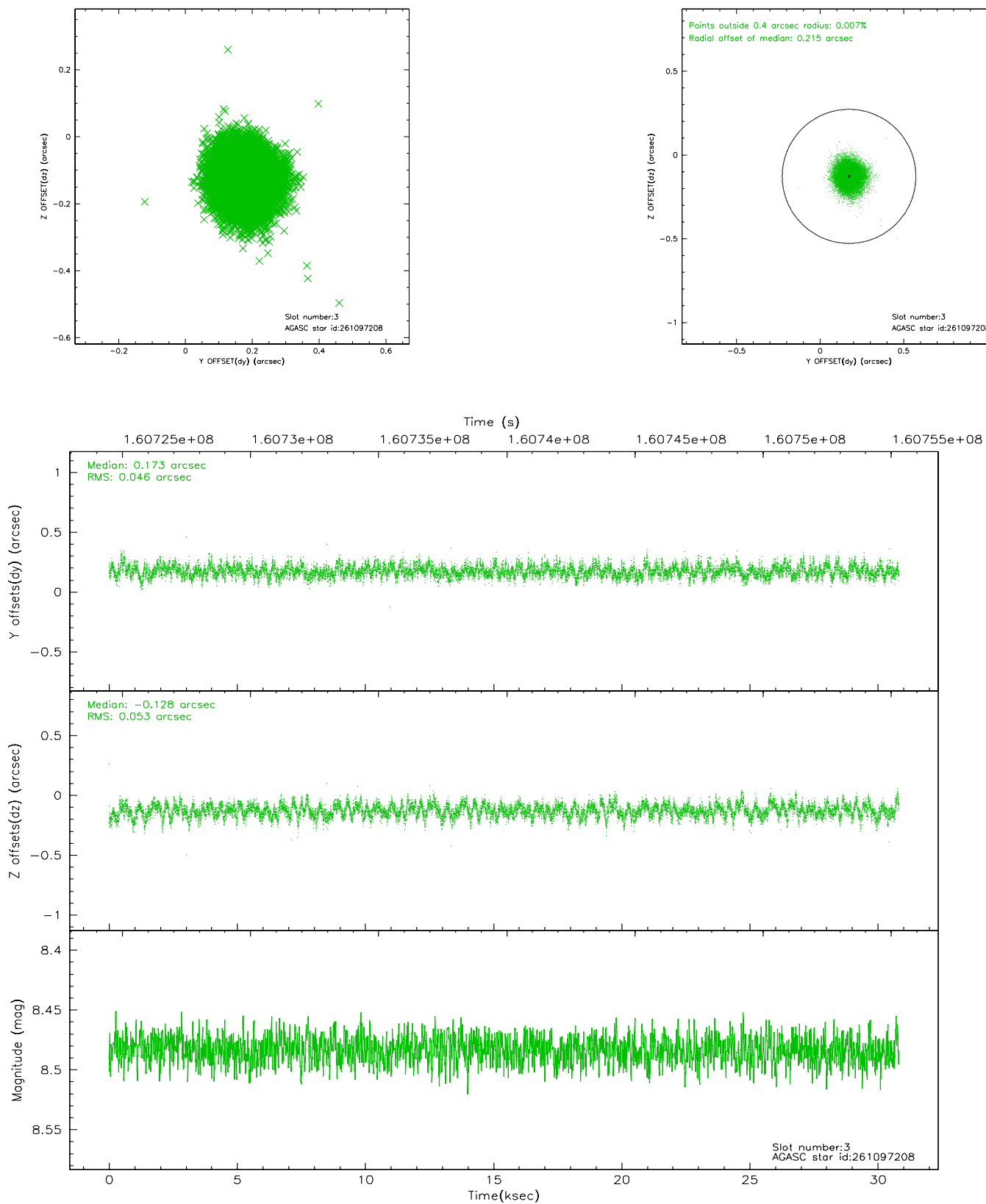


### Slot Statistics

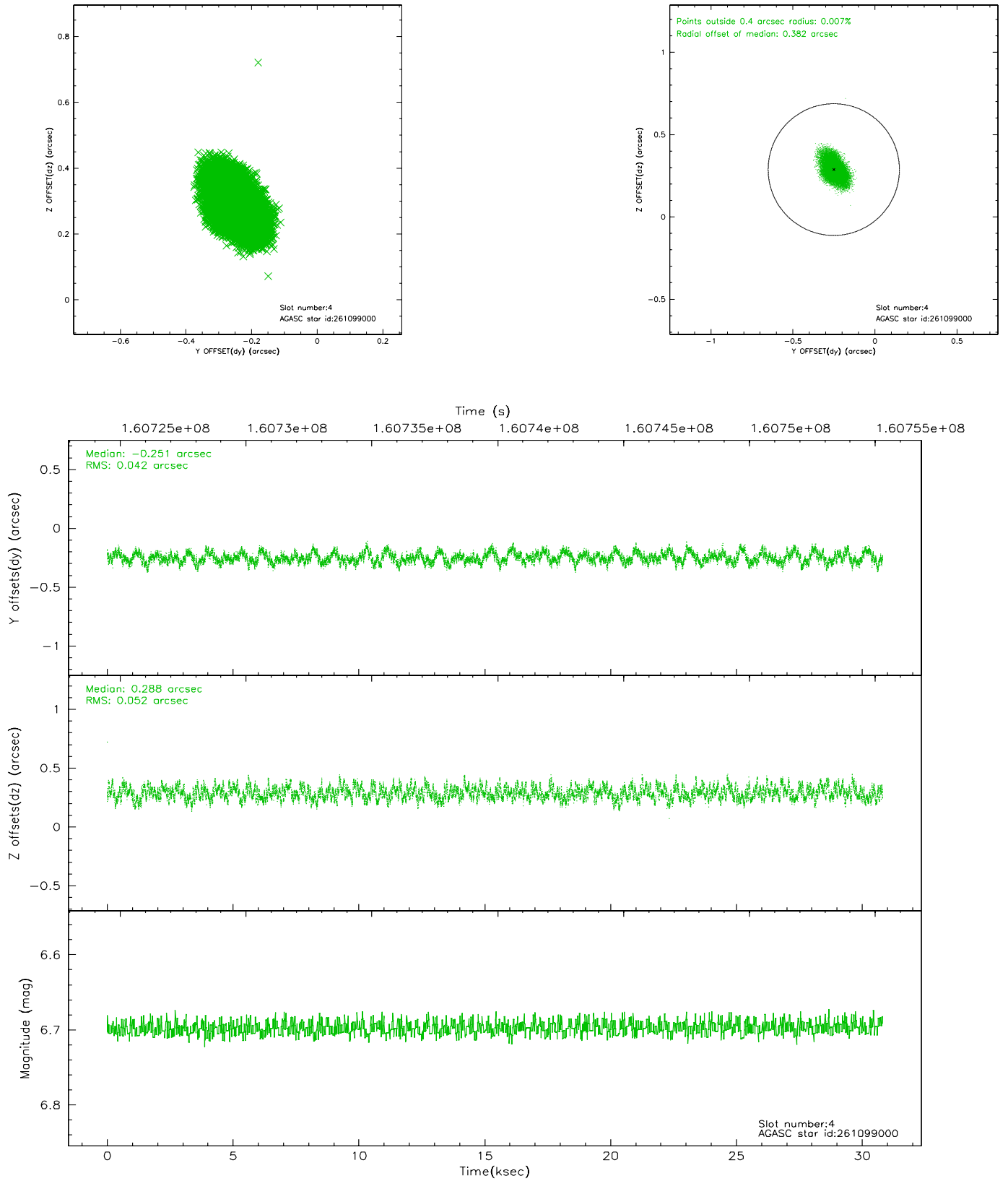
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.12	7518	-0.000	0.028	0.007	0.011	0.000000	0.000000	-756.20	-1728.27
1	FID	ACIS-S-4	7.20	7518	-0.039	-0.007	0.005	0.009	0.000000	0.000000	2157.00	180.11
2	FID	ACIS-S-5	7.24	7518	0.008	-0.012	0.006	0.010	0.000000	0.000000	-1808.95	173.85
3	GUIDE	261097208	8.48	15027	0.173	-0.128	0.075	0.119	188.588563	26.289040	-770.97	1146.89
4	GUIDE	261099000	6.70	15038	-0.251	0.288	0.071	0.116	189.221443	27.065454	1984.84	-940.82
5	BAD	261112888	10.59	14329	-0.226	-0.353	0.215	0.330	189.450763	26.963124	1605.64	-1670.28
6	GUIDE	261110680	9.86	15024	0.042	-0.046	0.111	0.181	188.468100	26.860951	1296.09	1489.78
7	GUIDE	261106896	9.50	14951	0.235	0.222	0.128	0.206	189.696095	26.751901	834.53	-2447.95

## 2.4 Star Slots

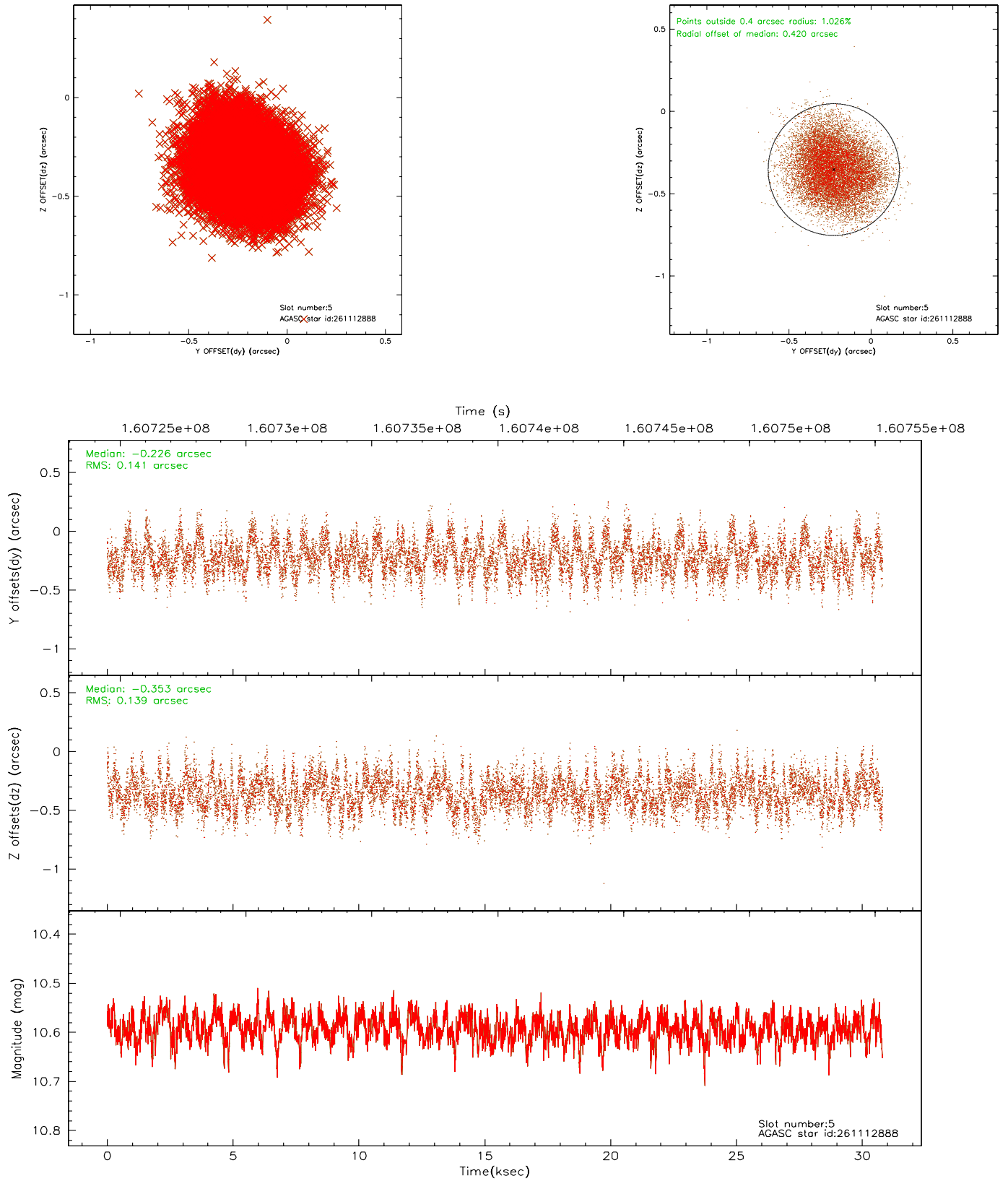
### 2.4.1 Slot 3



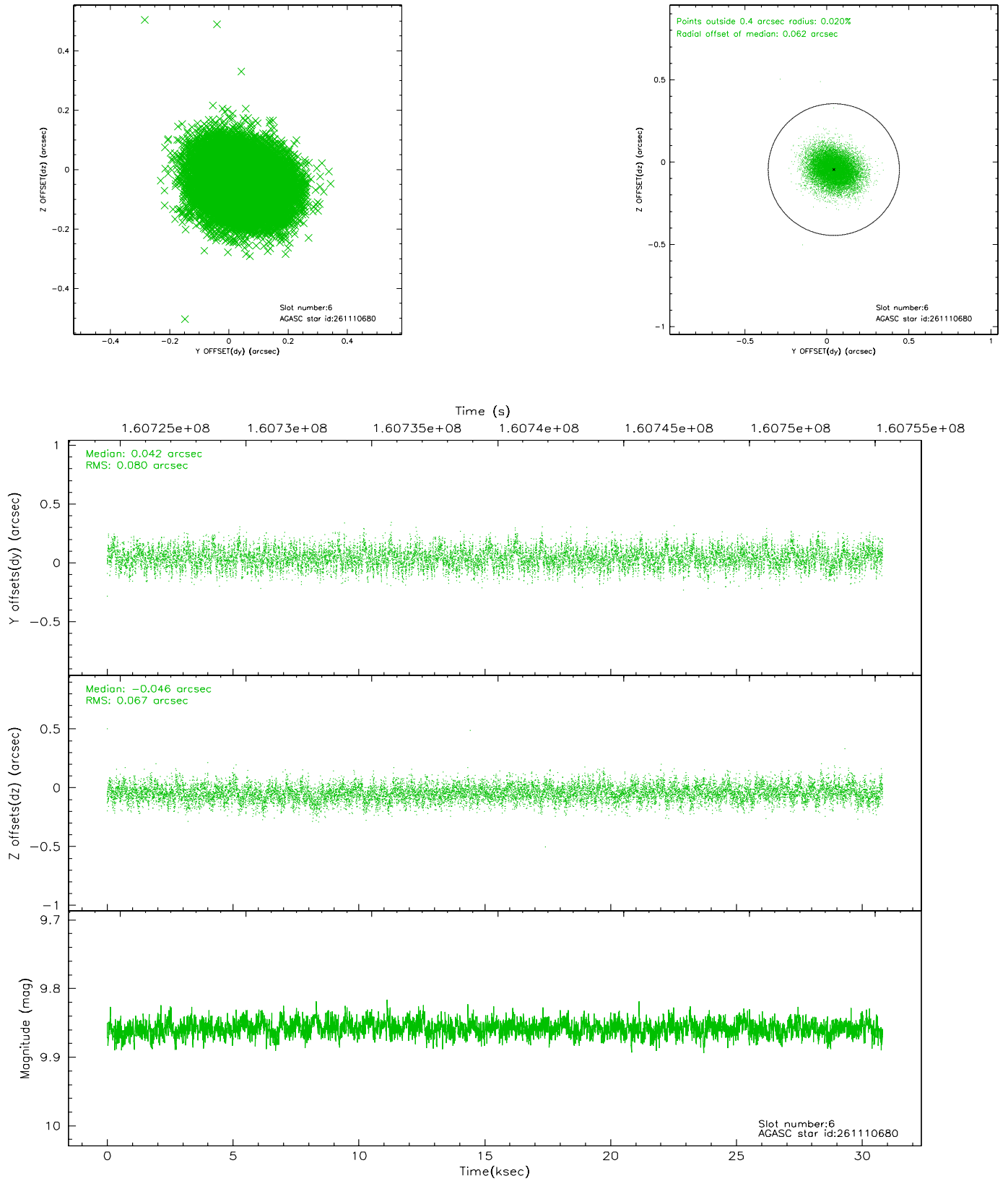
## 2.4.2 Slot 4



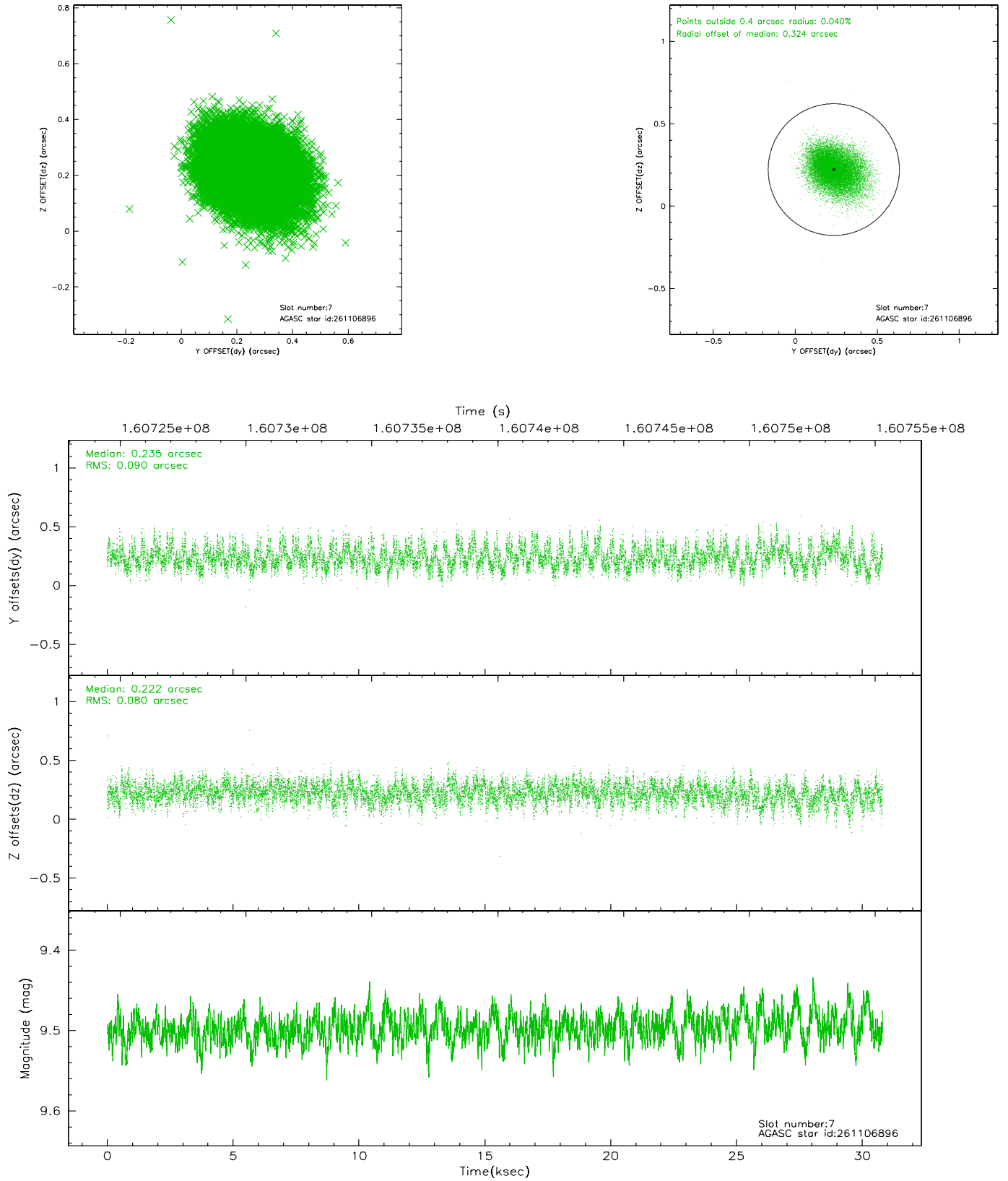
### 2.4.3 Slot 5



## 2.4.4 Slot 6

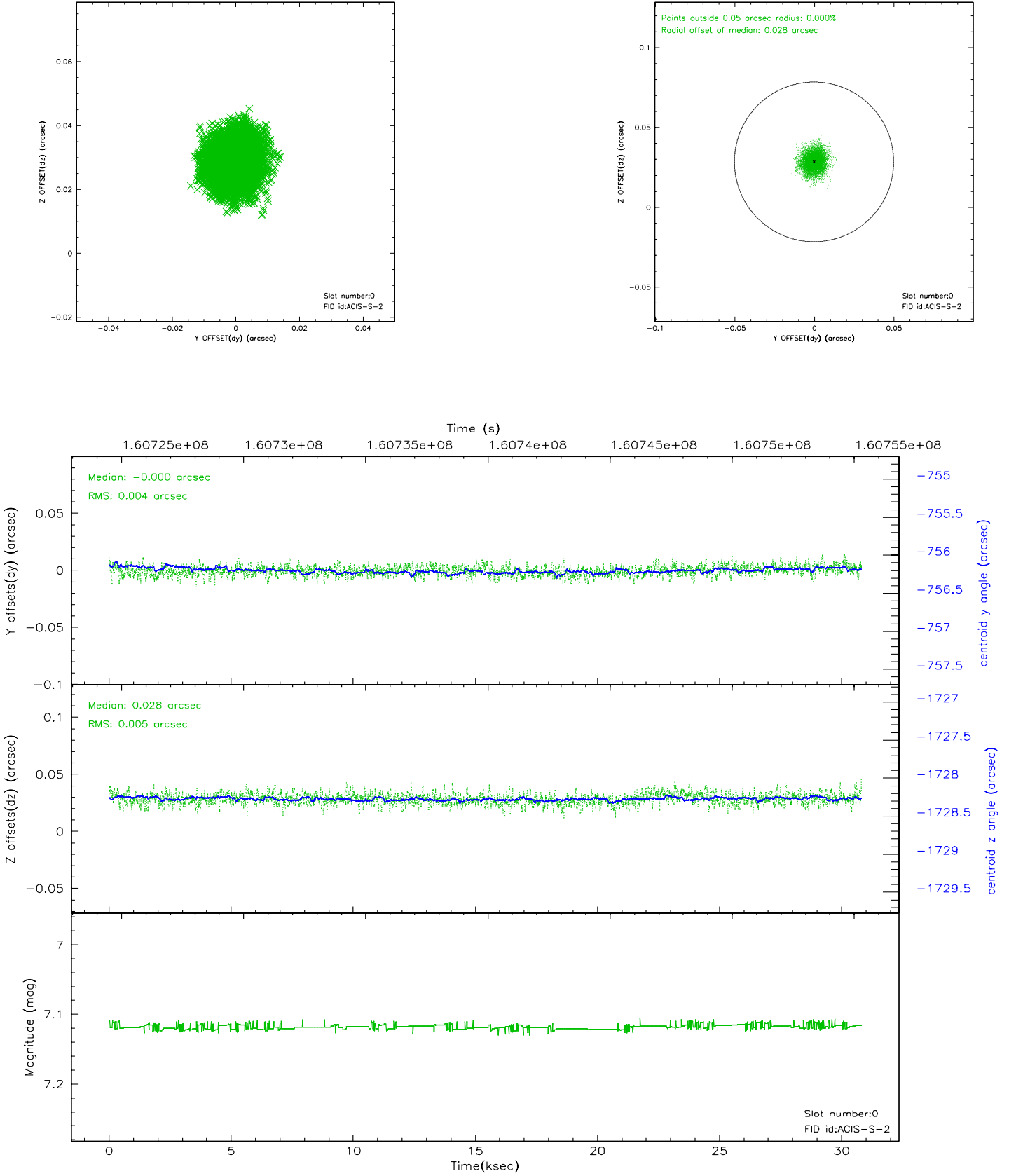


## 2.4.5 Slot 7

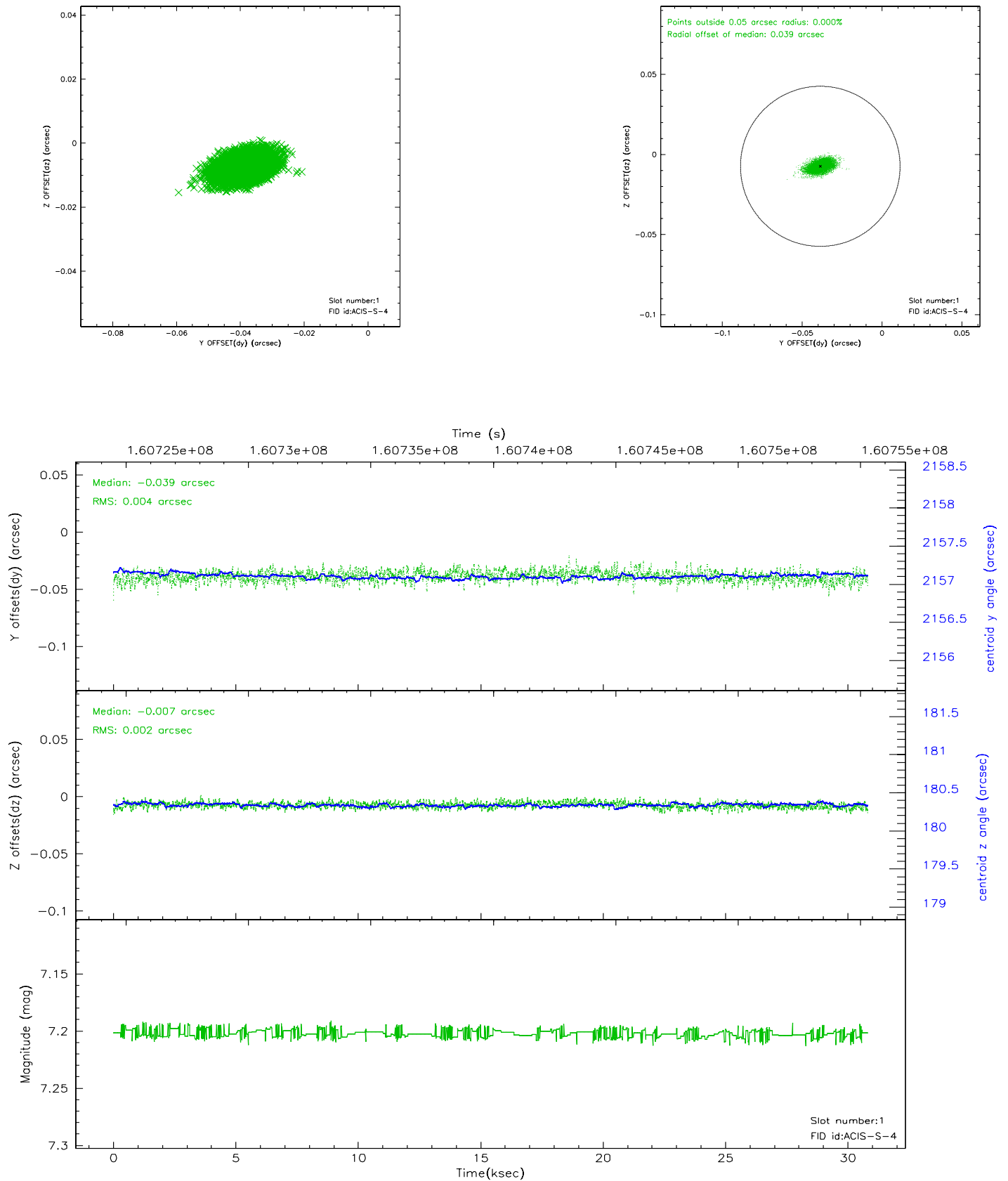


## 2.5 FID Slots

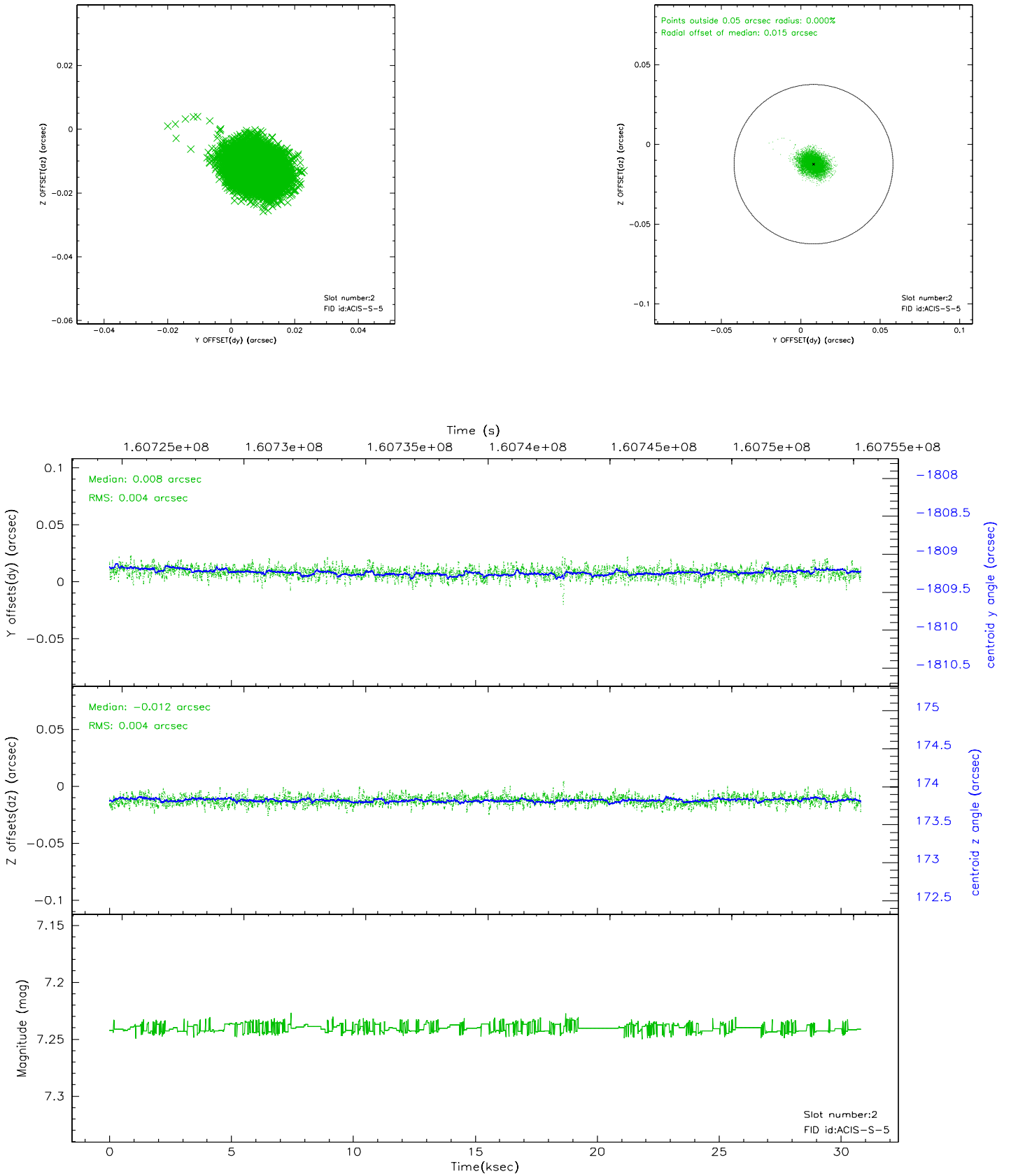
### 2.5.1 Slot 0



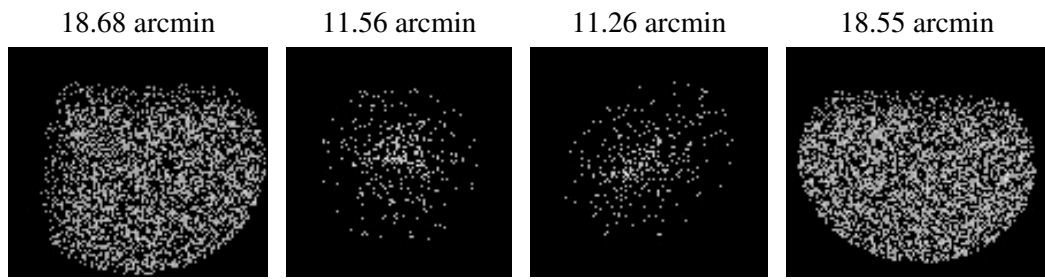
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.07.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	30.348

### A.2 Comments

Slot 5 was excluded from aspect solution.