

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3833 - L2 Version 002  
Chandra X-Ray Center

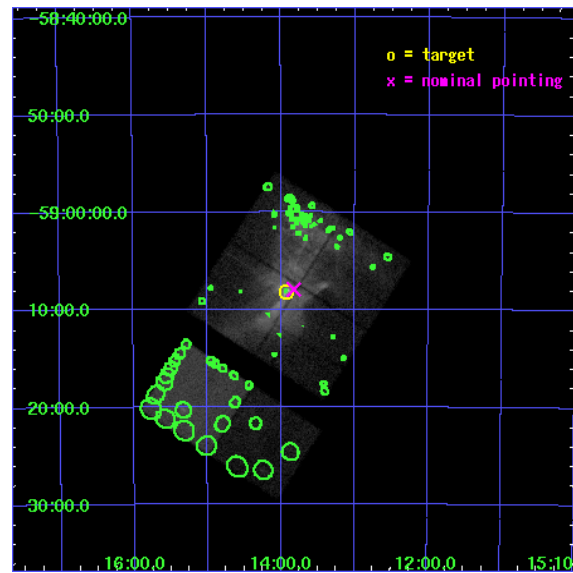
L2 Processing Date : Jun 30 2006

## 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
<b>3</b>	<b>Point Sources</b>	<b>16</b>
<b>A</b>	<b>Summary</b>	<b>17</b>
A.1	Status . . . . .	17
A.2	Comments . . . . .	17

# 1 Front

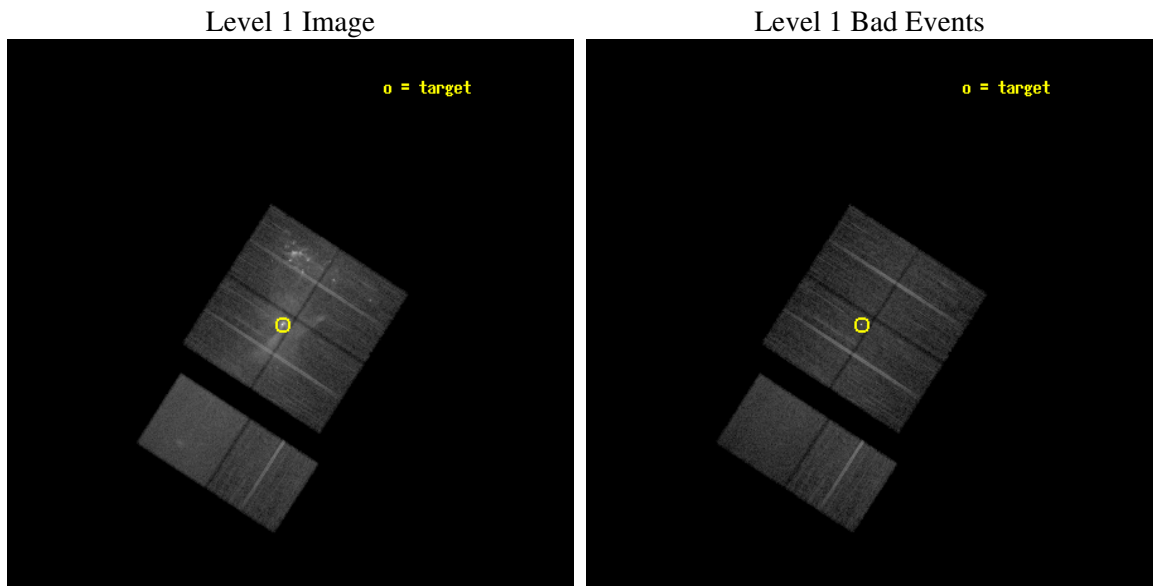
seq_num	500312
obs_id	3833
title	MULTI-EPOCH OBSERVATIONS OF PSR B1509-58 AND ITS NEBULA
observer	Prof. Bryan Gaensler
object	PSR B1509-58
dtcycle	0
cycle	P
ra_targ	228.481667
dec_targ	-59.135889
ra_nom	228.45579930153
dec_nom	-59.132380841961
roll_nom	212.87536910348
revision	4
ontime	19379.199927807
livetime	19133.808829568
ontime0	19379.199927807
ontime1	19379.199927807
ontime2	19379.199927807
ontime3	19379.199927807
ontime6	19379.199927807
ontime7	19379.199927807
l2events	336075



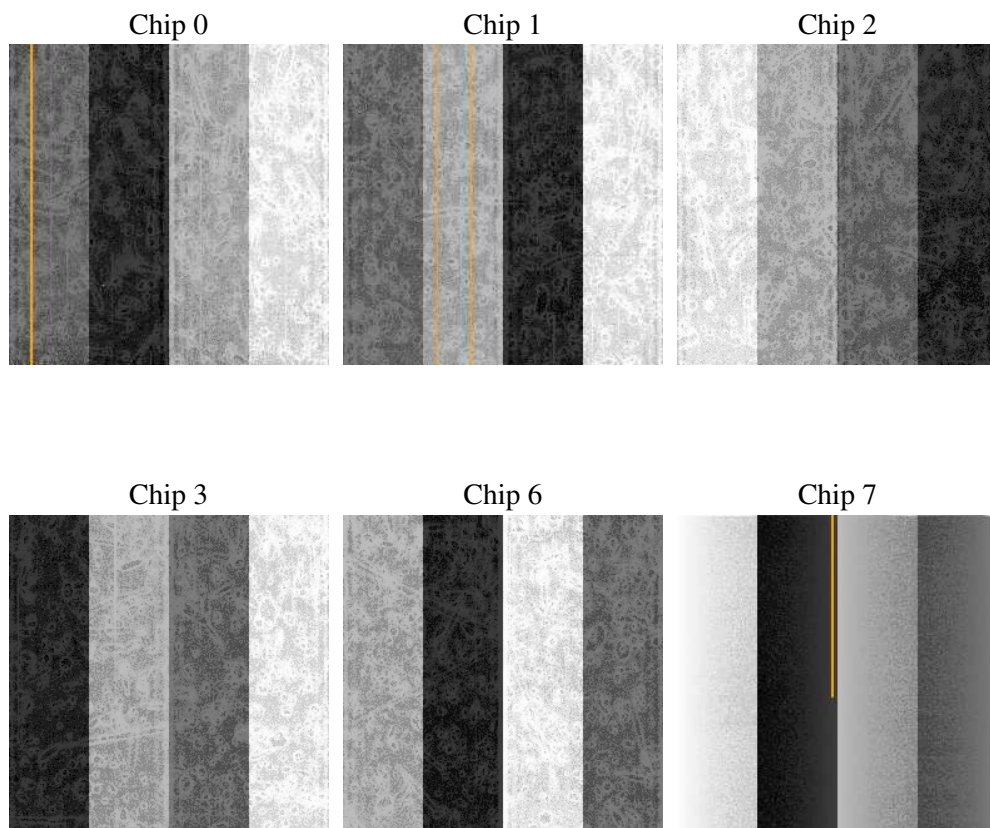
## 2 OBI

### 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	2006-06-30T15:42:21
revision	4

sched_exp_time	19250.000000
ontime	19585.368449301
ontime0	19595.091569304
ontime1	19591.850549191
ontime2	19595.091569304
ontime3	19585.368449301
ontime6	19588.609489292
ontime7	19698.802080691
l1events	1018285

### 2.1.4 Events

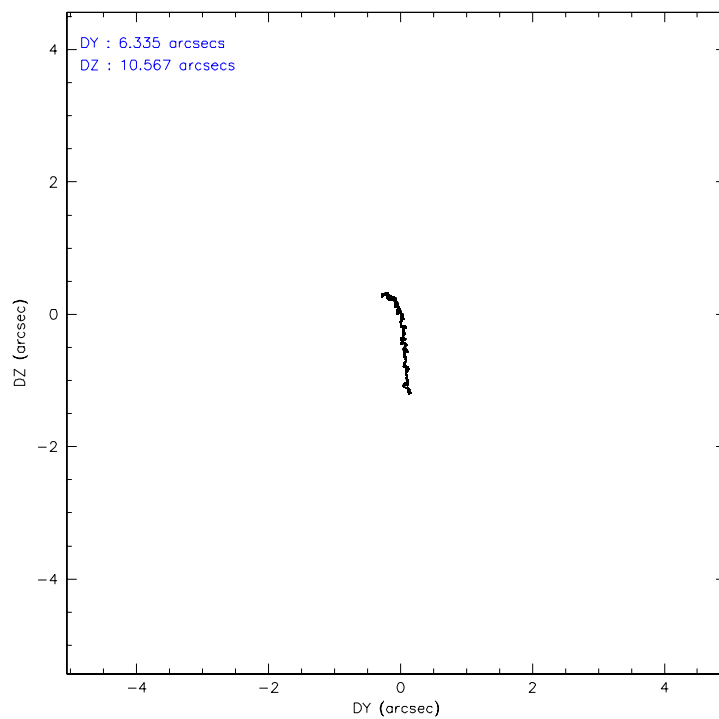
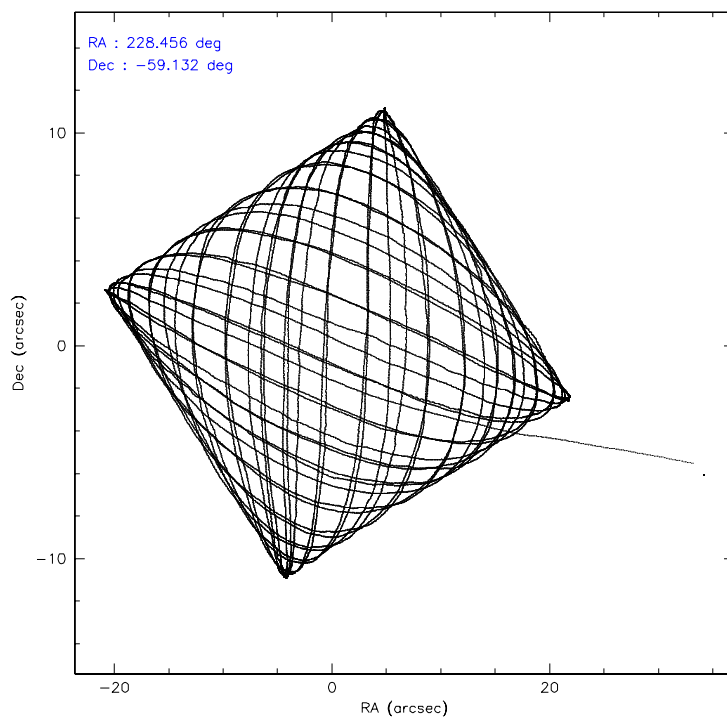
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	147248	196033	153070	196956	138265	186713
rejected events	103447	103297	110864	113232	119663	109075
rejected %	70%	52%	72%	57%	86%	58%

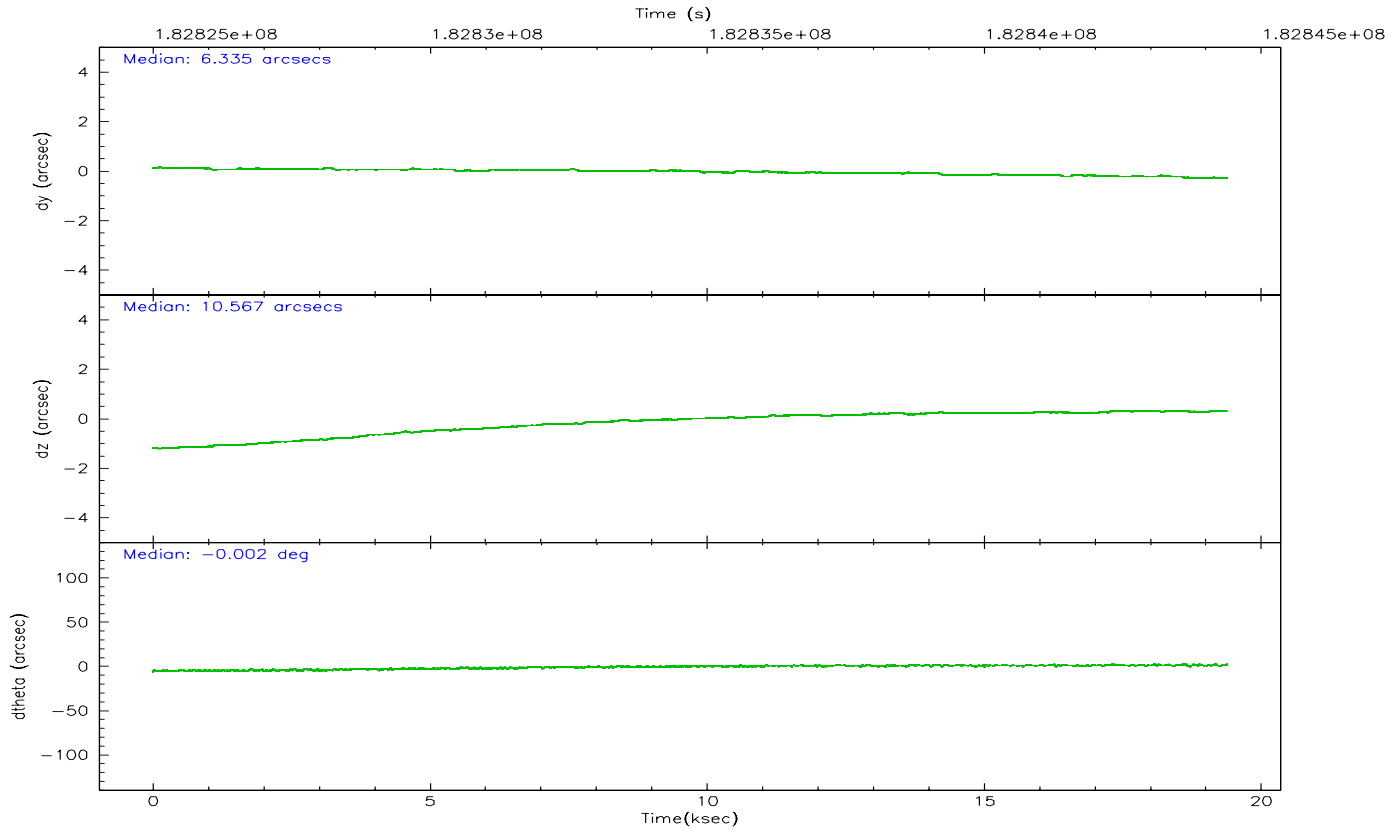
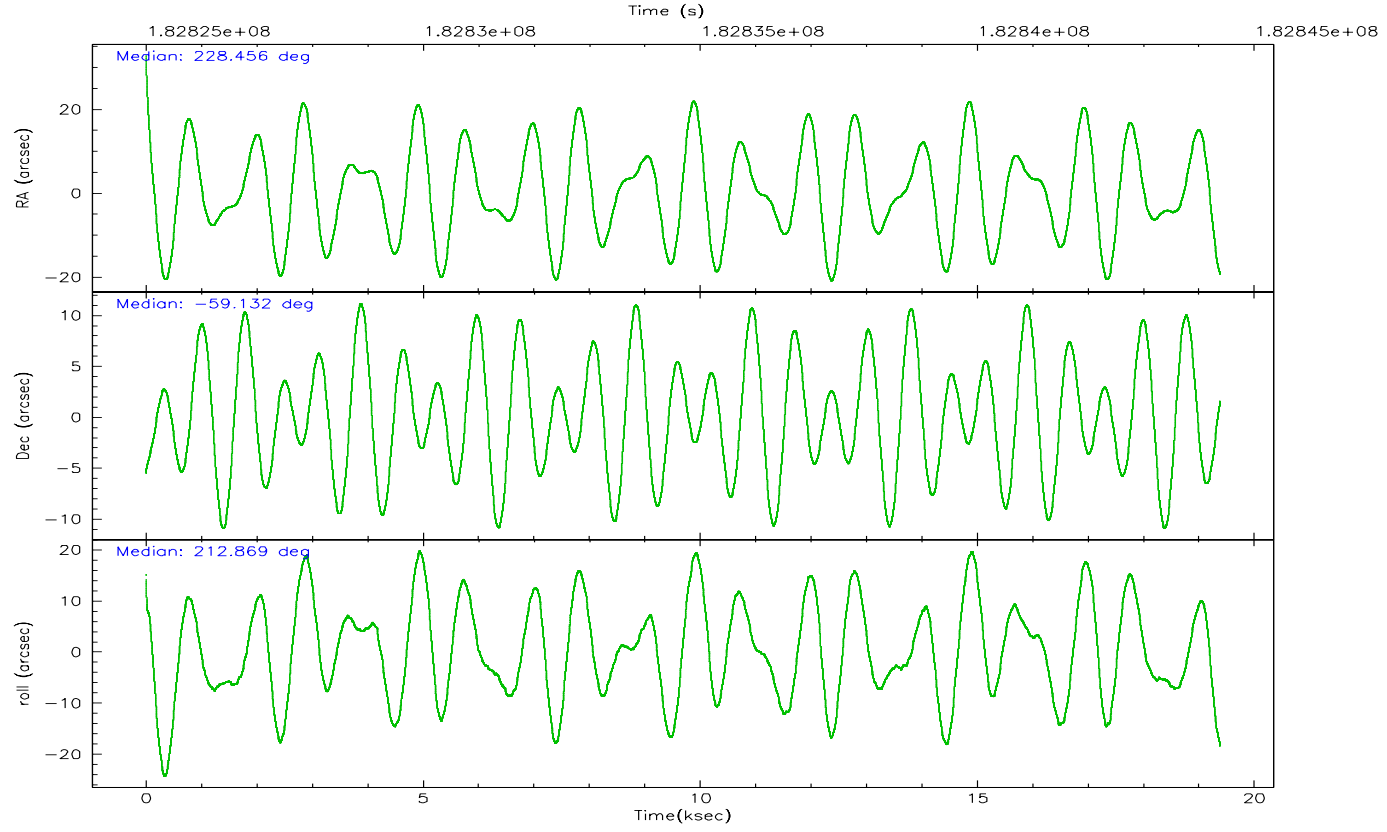
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	29684	69591	28472	58922	8963	6716
	20%	35%	18%	29%	6%	3%
grade 1 events	166	310	191	1013	80	126
	0%	0%	0%	0%	0%	0%
grade 2 events	6249	11318	5902	10931	3583	19902
	4%	5%	3%	5%	2%	10%
grade 3 events	2511	3914	2345	4306	1570	4616
	1%	1%	1%	2%	1%	2%
grade 4 events	2345	3756	2440	4167	1500	4649
	1%	1%	1%	2%	1%	2%
grade 5 events	5162	5369	4922	6807	5928	11584
	3%	2%	3%	3%	4%	6%
grade 6 events	3455	4846	3447	5963	3203	43305
	2%	2%	2%	3%	2%	23%
grade 7 events	97676	96929	105351	104847	113438	95815
	66%	49%	68%	53%	82%	51%

## 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	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	228.479919	228.4557993015282	Alternating exposures requested	N	N
Pointing Dec	-59.107949	-59.13238084196092	Primary exposure time	0.000000	3.2
Pointing Roll	212.687398	212.8753691034816			
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	182825127.184000	182824676.14236			
Observation start date	2003-10-18T00:44:23	2003-10-18T00:37:56			
Observation end time	182844377.184000	182845291.45575			
Observation end date	2003-10-18T06:05:13	2003-10-18T06:21:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect





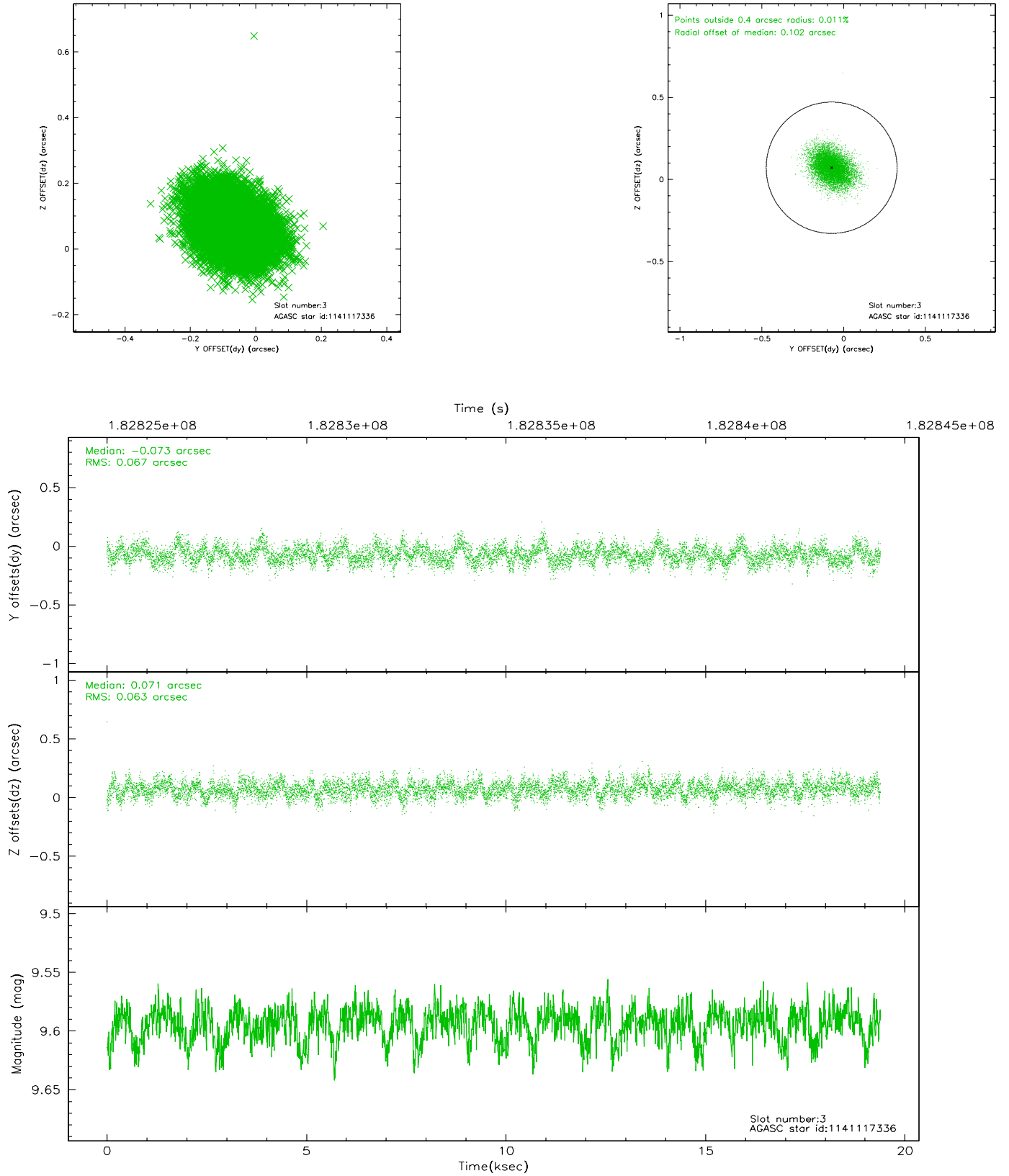
### Slot Statistics

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	4729	0.015	-0.006	0.011	0.027	0.000000	0.000000	933.42	-833.86
1	FID	ACIS-I-5	7.23	4728	-0.076	0.056	0.011	0.028	0.000000	0.000000	-1814.68	1063.56
2	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
3	GUIDE	1141117336	9.59	9436	-0.073	0.071	0.097	0.158	227.285487	-59.036996	1734.78	-1392.73
4	GUIDE	1141117728	9.53	9456	-0.011	-0.030	0.093	0.152	228.608878	-58.618268	-1154.93	-1353.17
5	GUIDE	1141119896	8.39	9449	-0.037	0.046	0.064	0.102	229.637327	-59.405643	-1196.29	2062.58
6	GUIDE	1141118720	9.47	9455	0.098	-0.011	0.097	0.158	227.772709	-59.614232	2071.89	844.75
7	GUIDE	1141116384	9.43	9456	0.022	-0.073	0.084	0.137	229.578291	-59.437206	-1042.86	2097.33

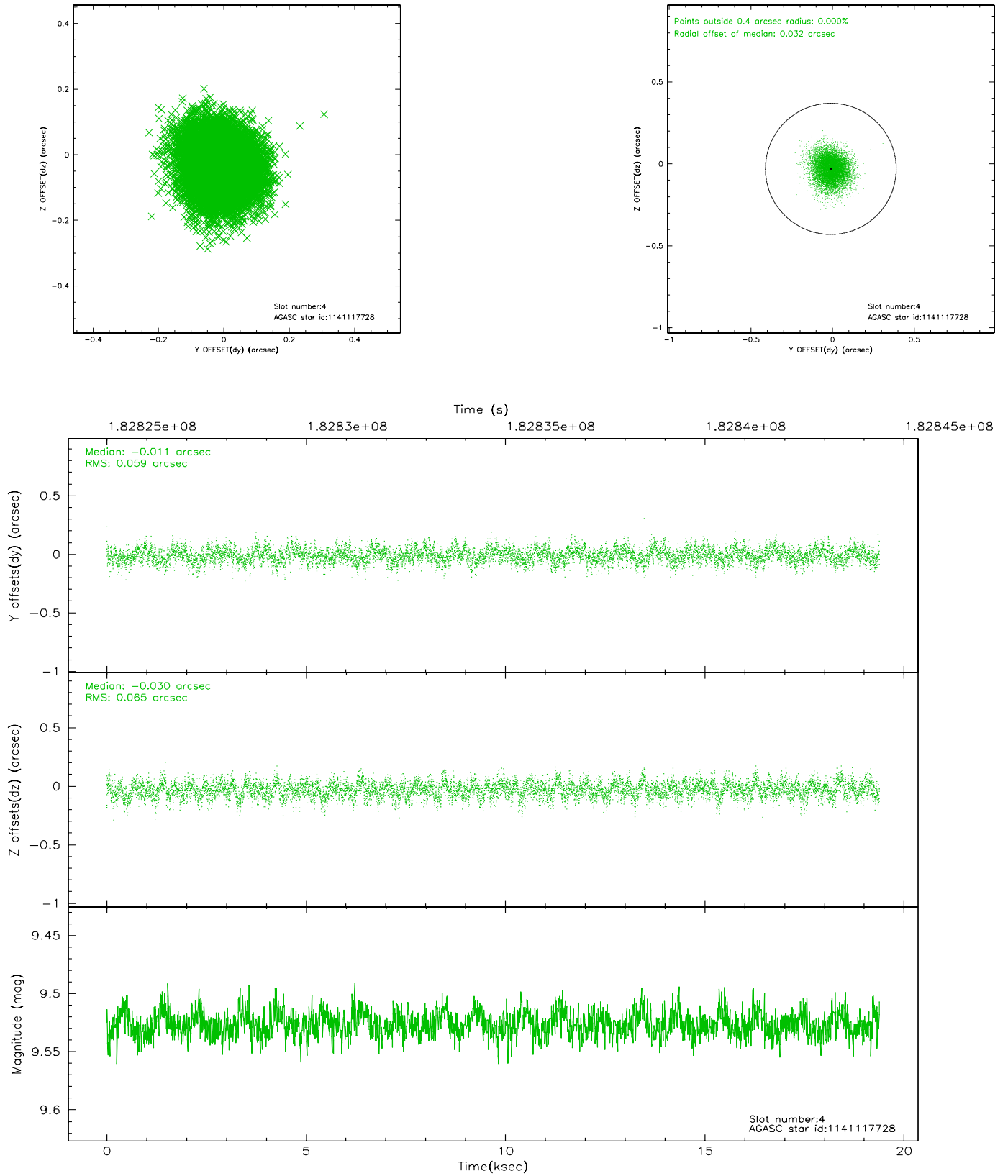


## 2.4 Star Slots

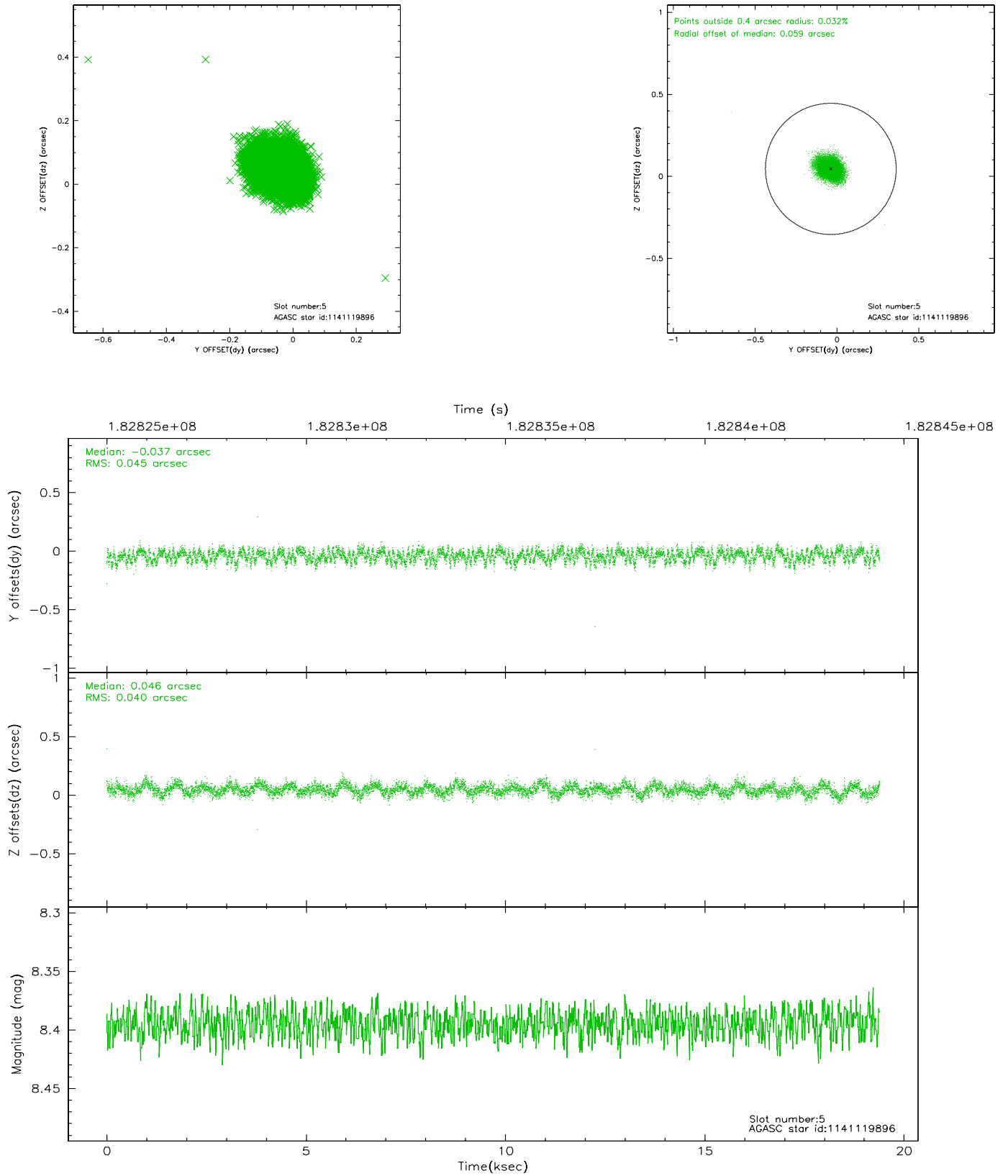
### 2.4.1 Slot 3



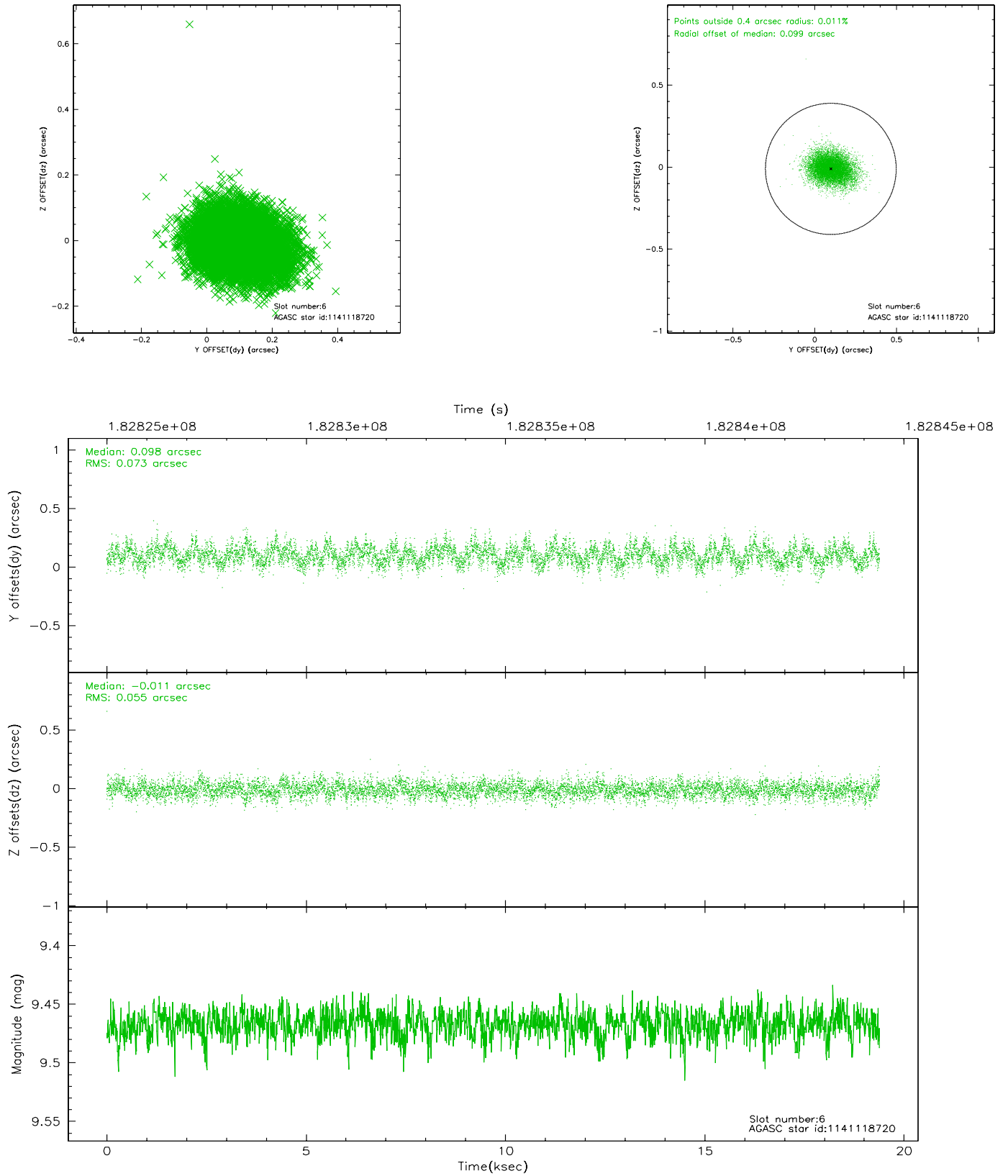
## 2.4.2 Slot 4



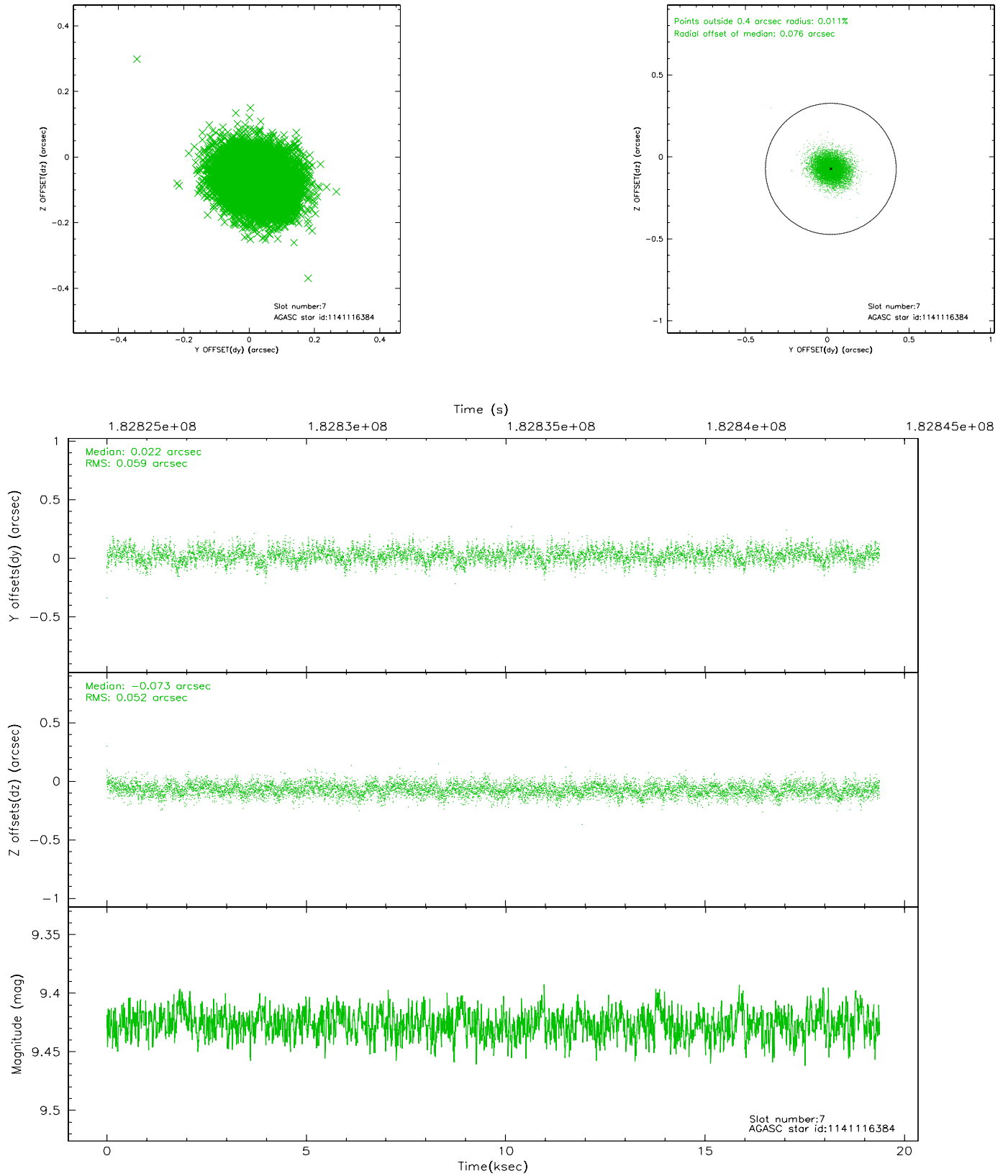
### 2.4.3 Slot 5



## 2.4.4 Slot 6

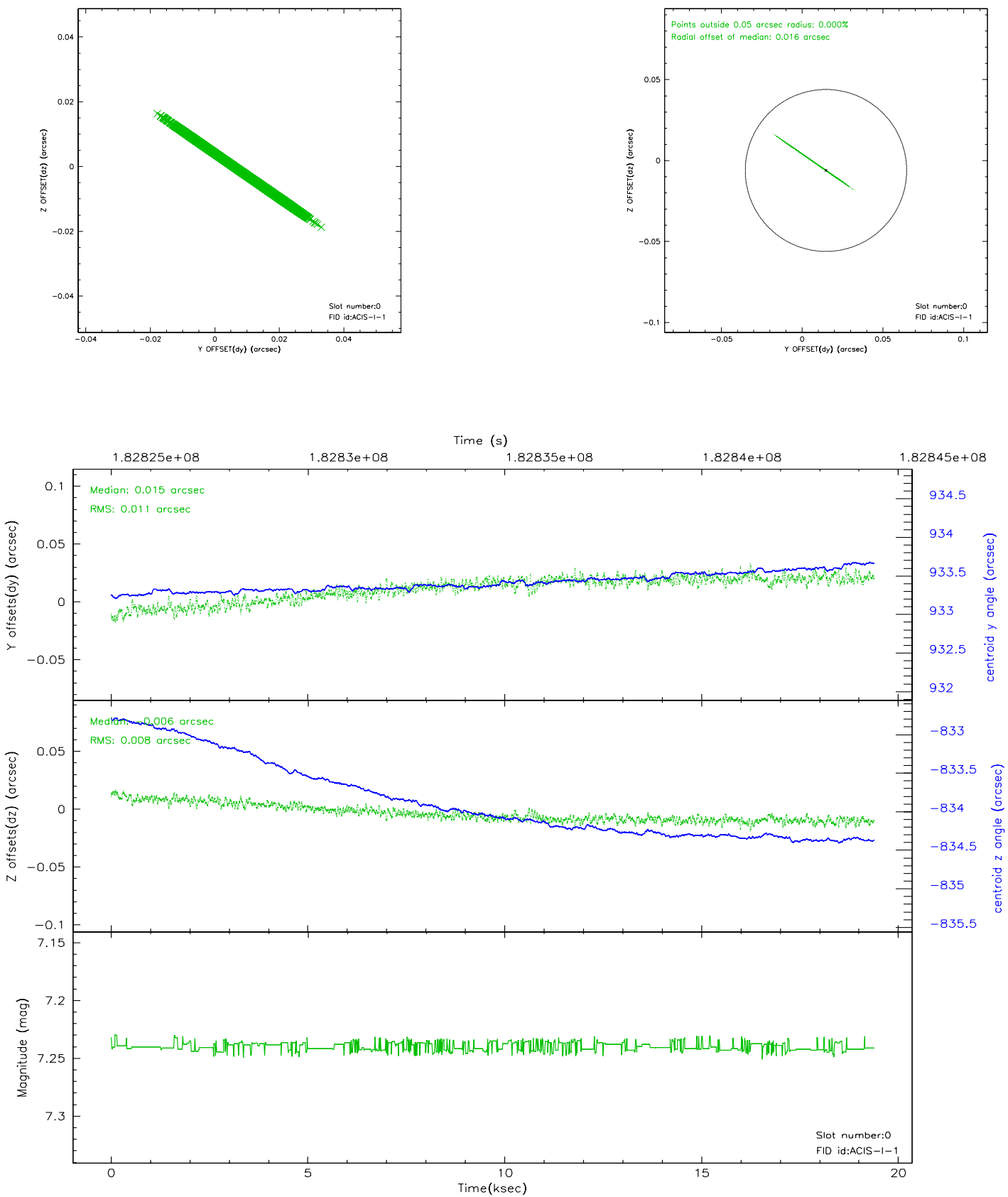


## 2.4.5 Slot 7

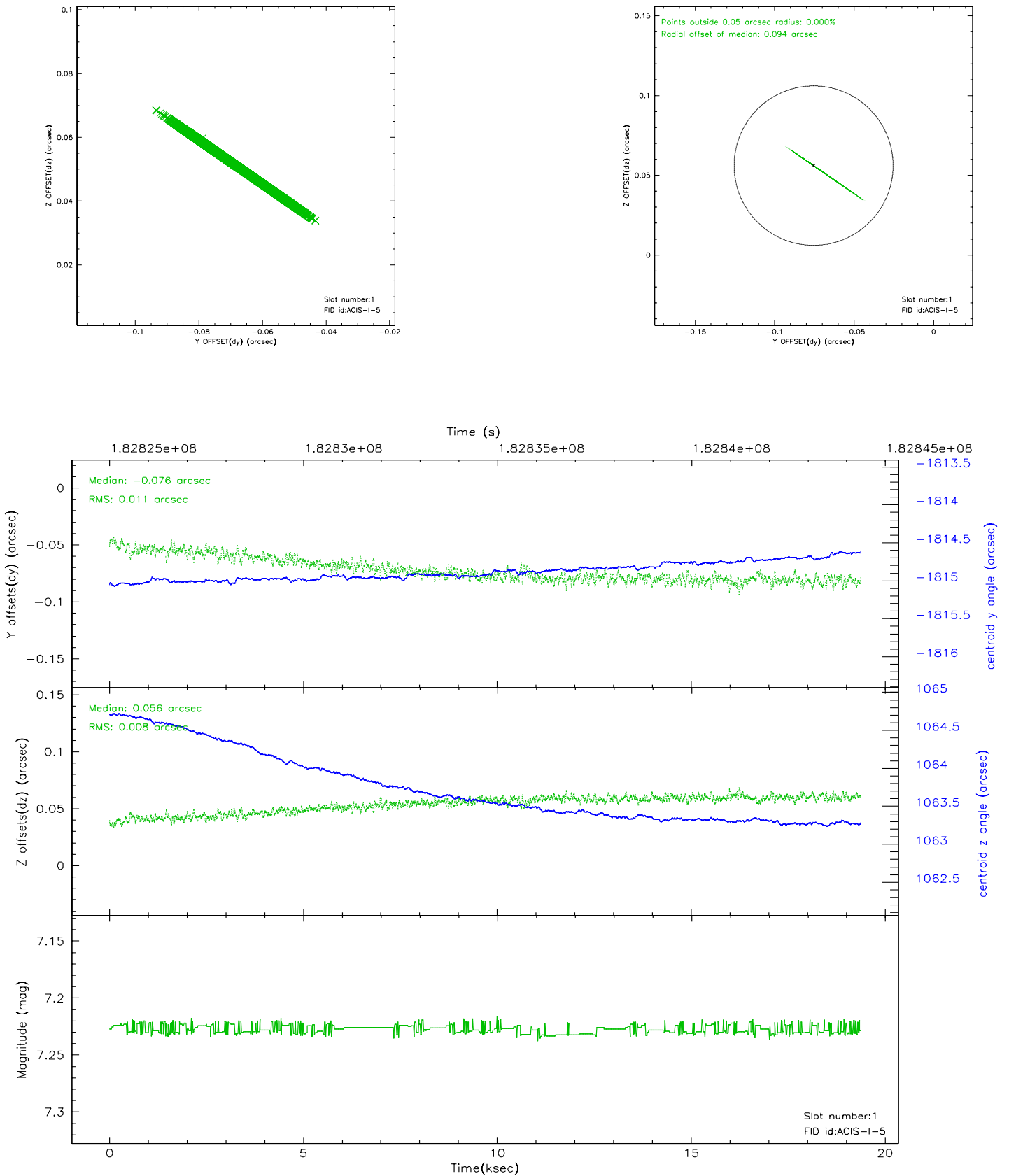


## 2.5 FID Slots

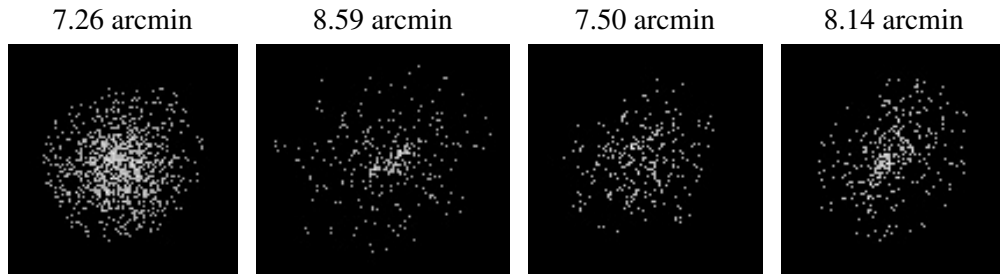
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 3 Point Sources





## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.06.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.379

### A.2 Comments