

# V&V Reference Report

## L2 ASCDS Version : 7.6.10

Observation 1748 - L2 Version 001  
Chandra X-Ray Center

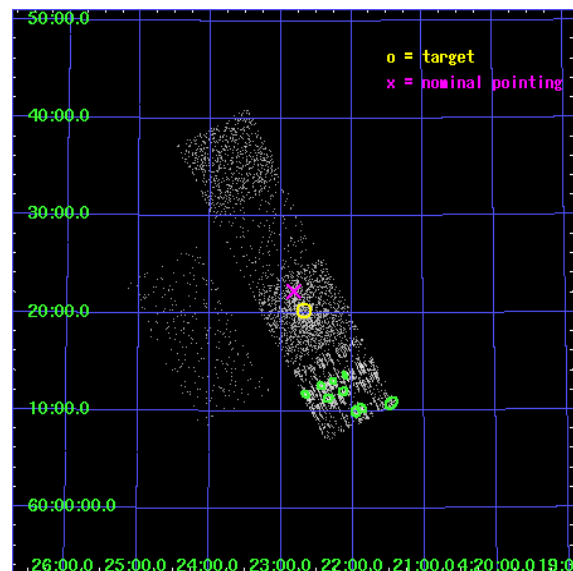
L2 Processing Date : May 30 2007

## 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

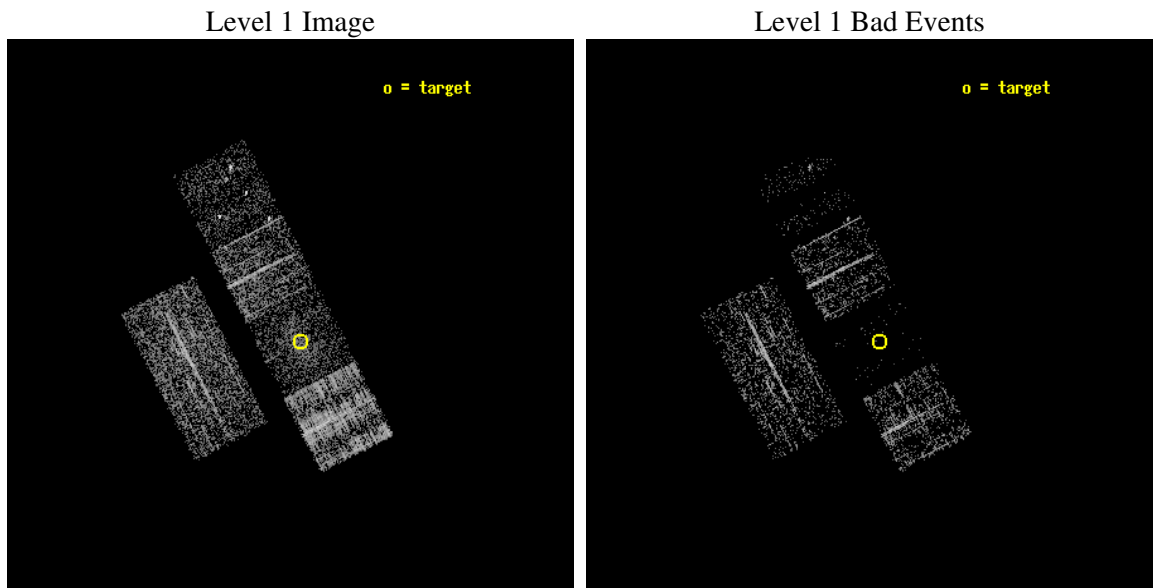
seq_num	100002
obs_id	1748
title	AXAF LOW ENERGY SPECTROSCOPY AND PHOTOMETRIC IMAGING OF COMETARY X-RAY EMISSION FROM COMET P/TEMPEL 2
observer	Dr. Carey Lisse
object	LINEAR 1999 S4
dtcycle	0
cycle	P
ra_targ	65.66696
dec_targ	60.33824
ra_nom	65.704616020624
dec_nom	60.371303007095
roll_nom	62.891422342235
revision	3
ontime	1190.4000011086
livetime	1175.3264395218
ontime2	1190.4000011086
ontime3	1190.4000011086
ontime5	1190.4000011086
ontime6	1190.4000011086
ontime7	1190.4000011086
ontime8	1190.4000011086
l2events	5880



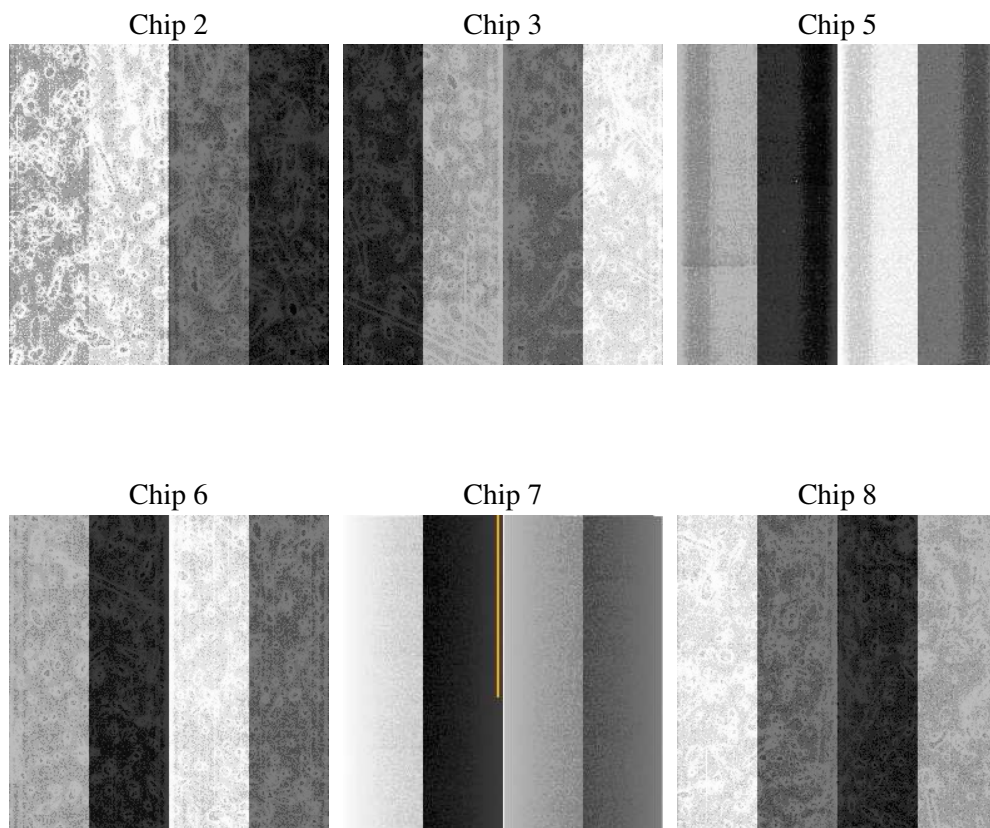
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.10
caldsver	3.4.0
date	2007-05-30T18:28:21
revision	3

sched_exp_time	1000.000000
ontime	1190.4000011086
ontime2	1190.4000011086
ontime3	1190.4000011086
ontime5	1190.4000011086
ontime6	1190.4000011086
ontime7	1190.4000011086
ontime8	1190.4000011086
l1events	37983

### 2.1.4 Events

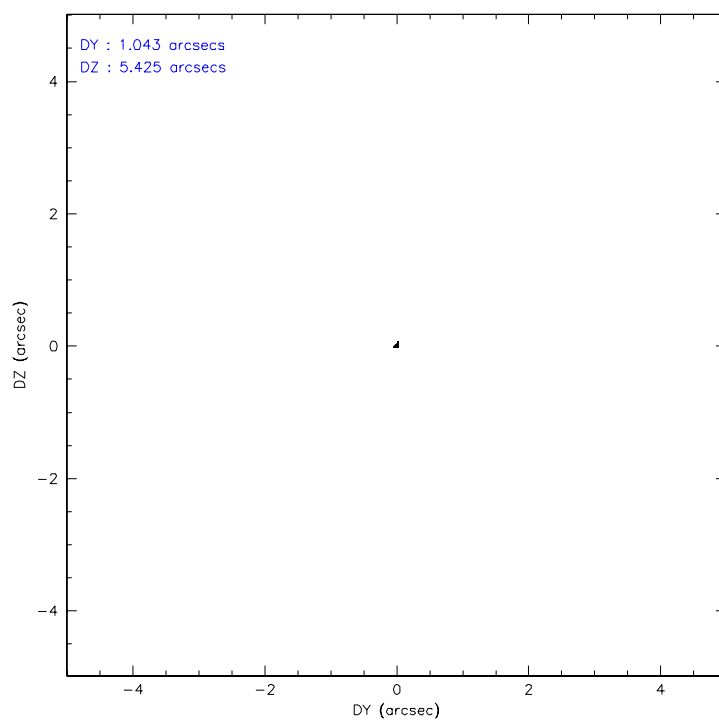
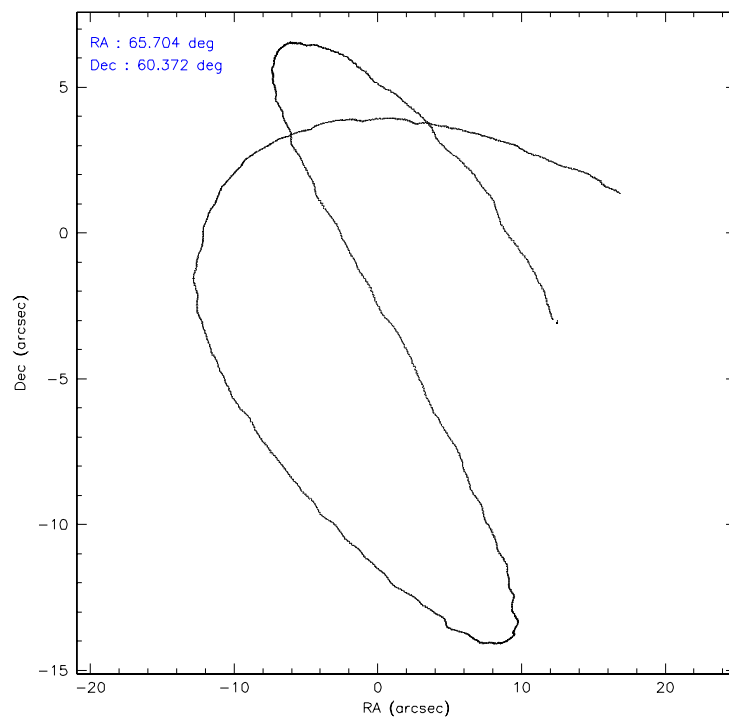
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	7050	5290	2902	6034	2602	14105
rejected events	6599	5108	1354	5683	732	7382
rejected %	93%	96%	46%	94%	28%	52%

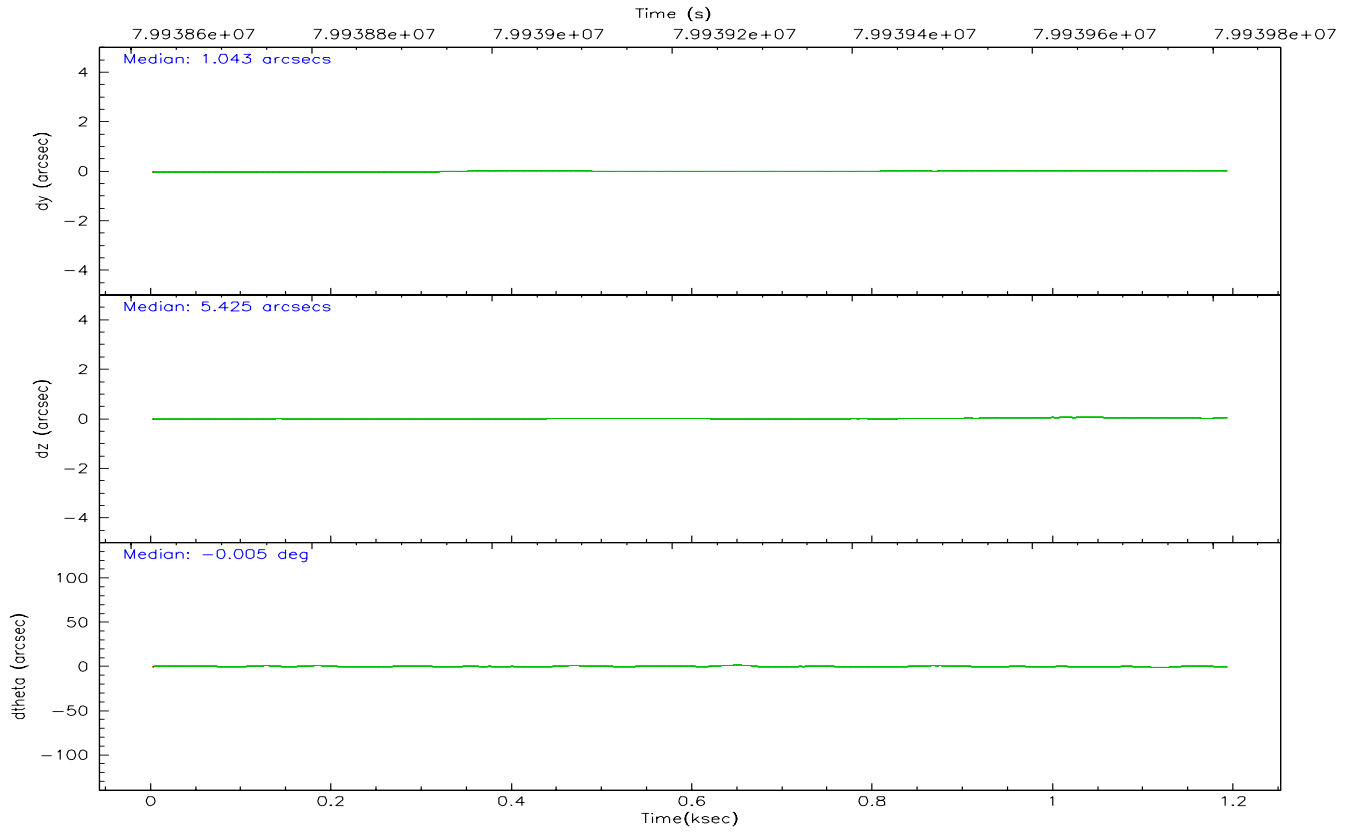
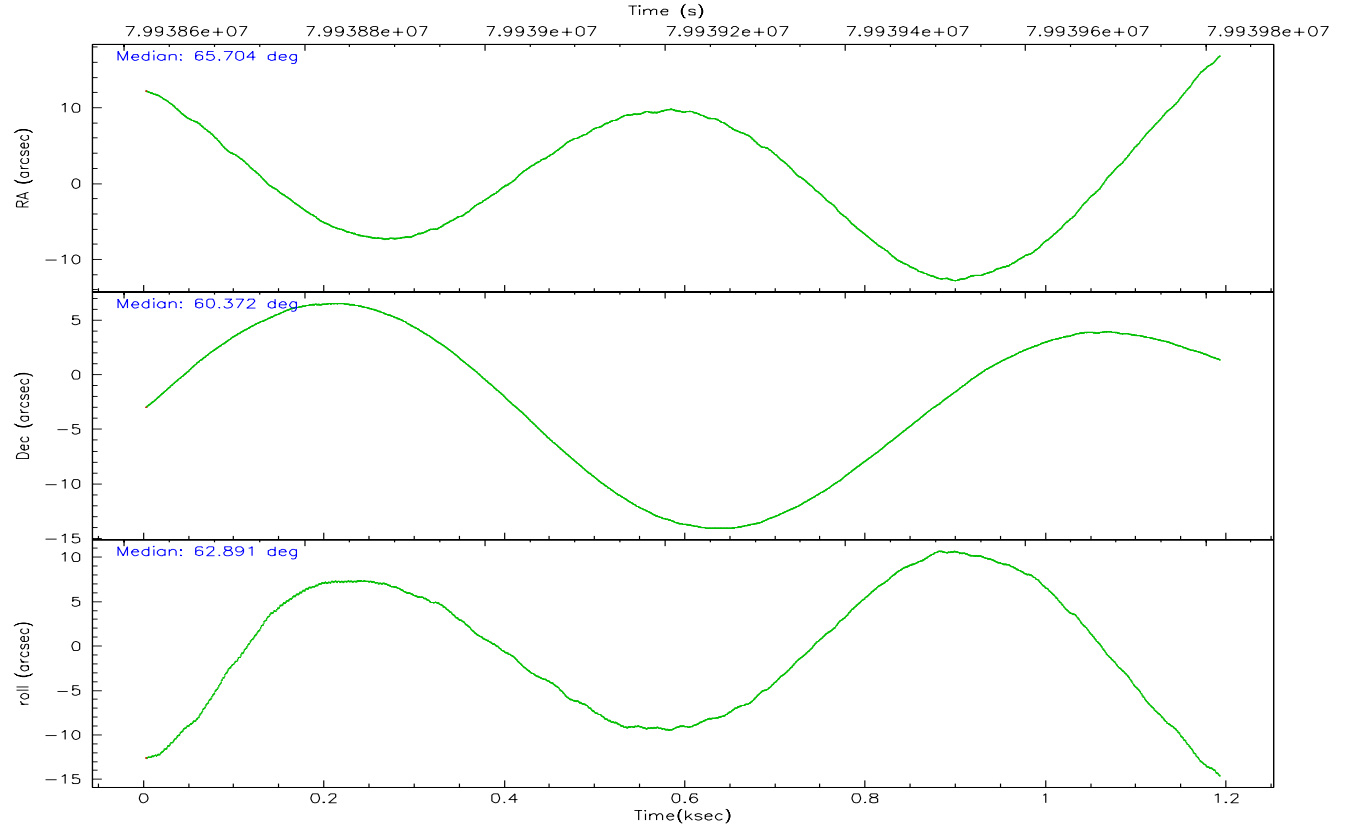
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	243	131	986	288	996	3037
	3%	2%	33%	4%	38%	21%
grade 1 events	3	2	44	1	5	29
	0%	0%	1%	0%	0%	0%
grade 2 events	154	19	557	83	622	772
	2%	0%	19%	1%	23%	5%
grade 3 events	43	34	161	29	234	1855
	0%	0%	5%	0%	8%	13%
grade 4 events	70	35	186	31	262	1590
	0%	0%	6%	0%	10%	11%
grade 5 events	9	2	117	3	64	103
	0%	0%	4%	0%	2%	0%
grade 6 events	32	12	117	7	208	1085
	0%	0%	4%	0%	7%	7%
grade 7 events	6496	5055	734	5592	211	5634
	92%	95%	25%	92%	8%	39%

## 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	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
Pointing RA	65.708050	65.70461602062375	Subarray requested	NONE	NONE
Pointing Dec	60.343515	60.37130300709524	Alternating exposures requested	N	N
Pointing Roll	62.731834	62.89142234223485	Primary exposure time	3.200000	3.2
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	79938819.184000	79938442.769328			
Observation start date	2000-07-14T05:12:35	2000-07-14T05:07:22			
Observation end time	79939819.184000	79939953.106884			
Observation end date	2000-07-14T05:29:15	2000-07-14T05:32:33			
Read mode	TIMED	TIMED			

## 2.3 Aspect





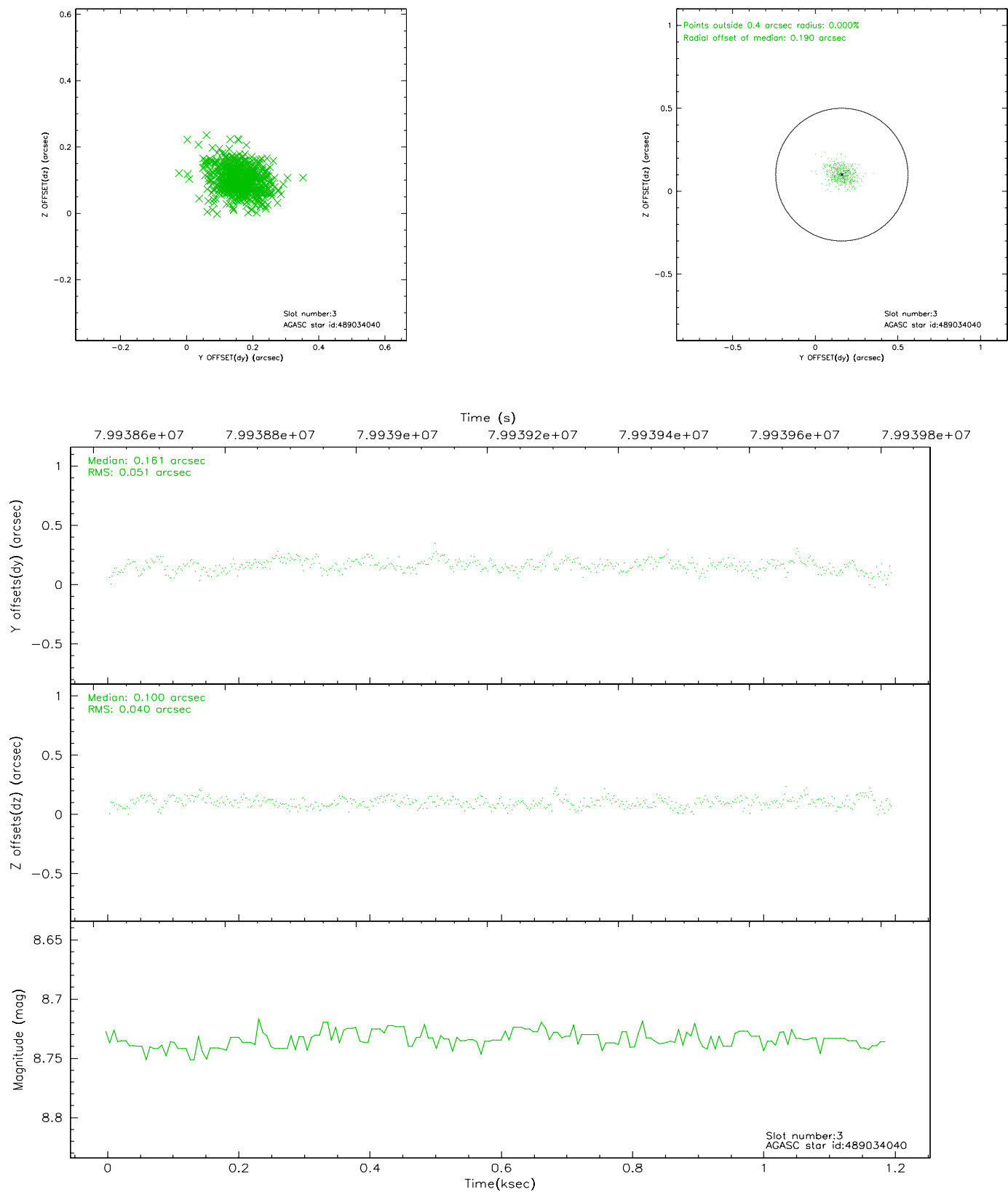
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	291	-0.033	0.019	0.006	0.009	0.000000	0.000000	-753.64	-1726.54
1	FID	ACIS-S-4	7.20	291	-0.027	0.011	0.005	0.010	0.000000	0.000000	2157.10	176.19
2	FID	ACIS-S-5	7.23	291	0.029	-0.021	0.006	0.010	0.000000	0.000000	-1799.23	176.15
3	GUIDE	489034040	8.73	582	0.161	0.100	0.069	0.114	65.374800	59.745977	-2189.22	-449.75
4	GUIDE	489033640	7.80	582	0.043	0.041	0.062	0.105	65.894533	59.732568	-1804.98	-1311.24
5	GUIDE	532815480	8.47	582	-0.030	-0.020	0.071	0.117	65.380825	60.792672	1170.34	1247.97
6	GUIDE	532811896	8.81	582	-0.142	-0.109	0.081	0.140	64.989899	61.006439	1553.44	2210.31
7	GUIDE	489045640	6.58	581	-0.032	-0.014	0.066	0.112	65.741450	59.616179	-2298.63	-1252.23

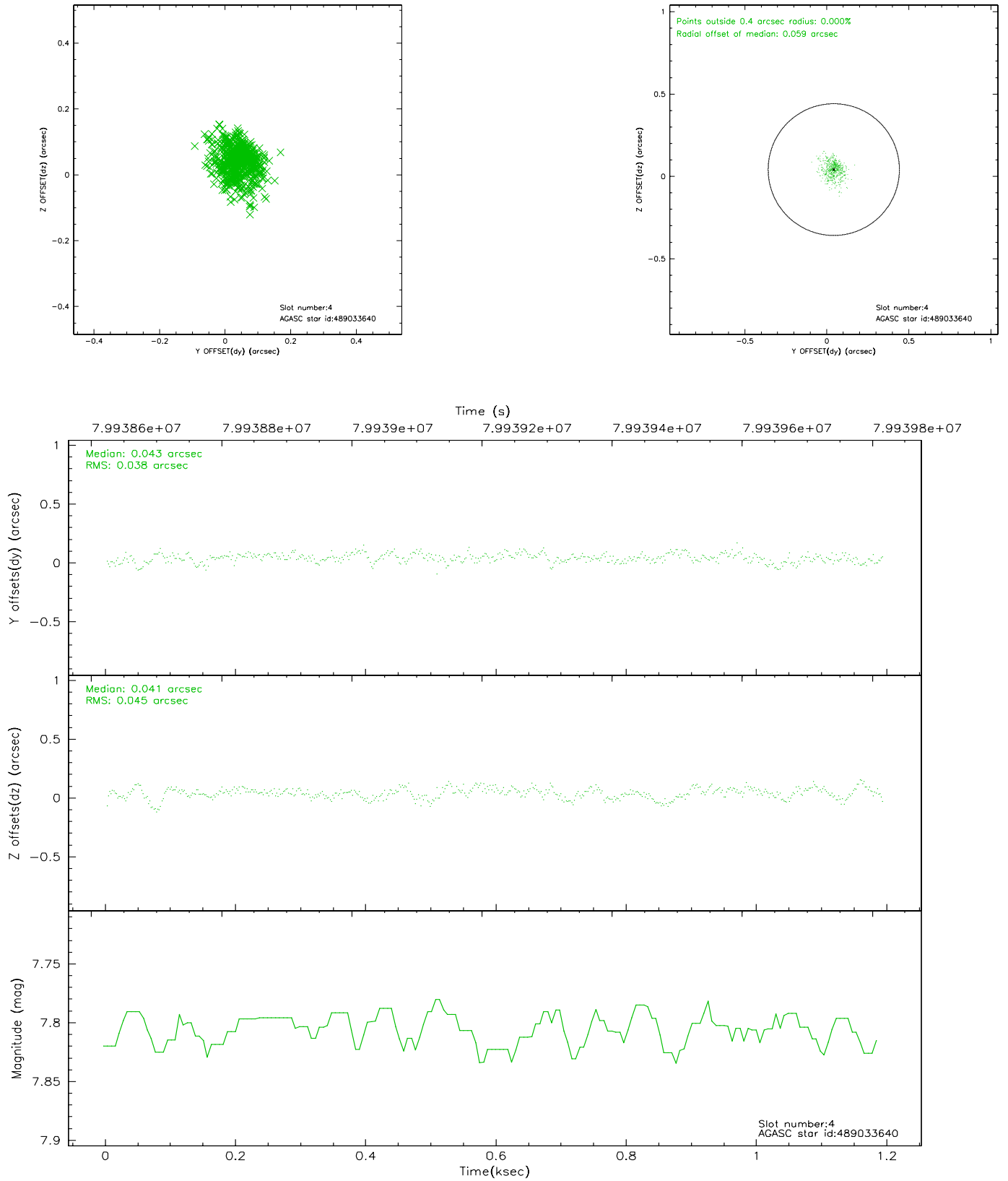


## 2.4 Star Slots

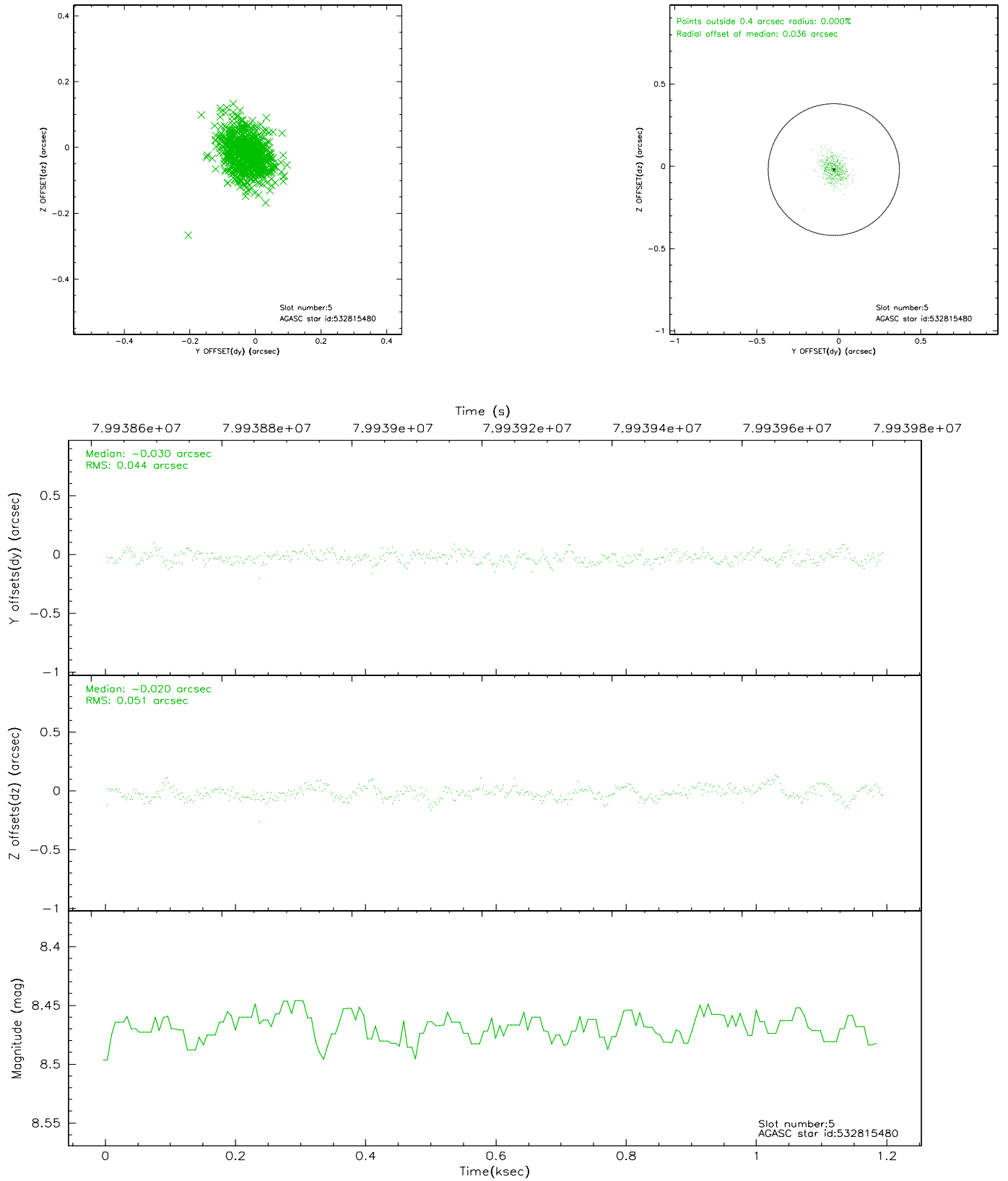
### 2.4.1 Slot 3



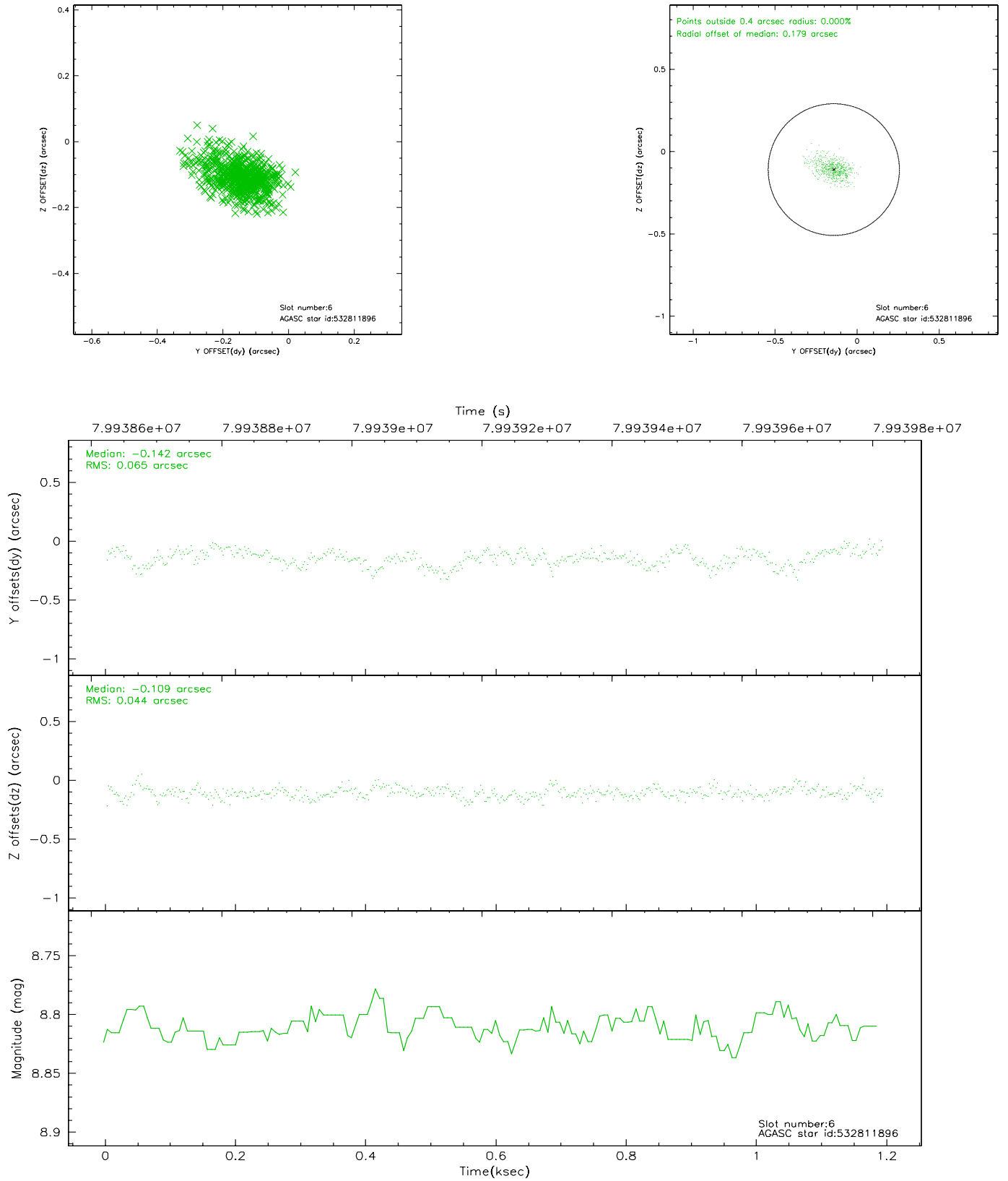
## 2.4.2 Slot 4



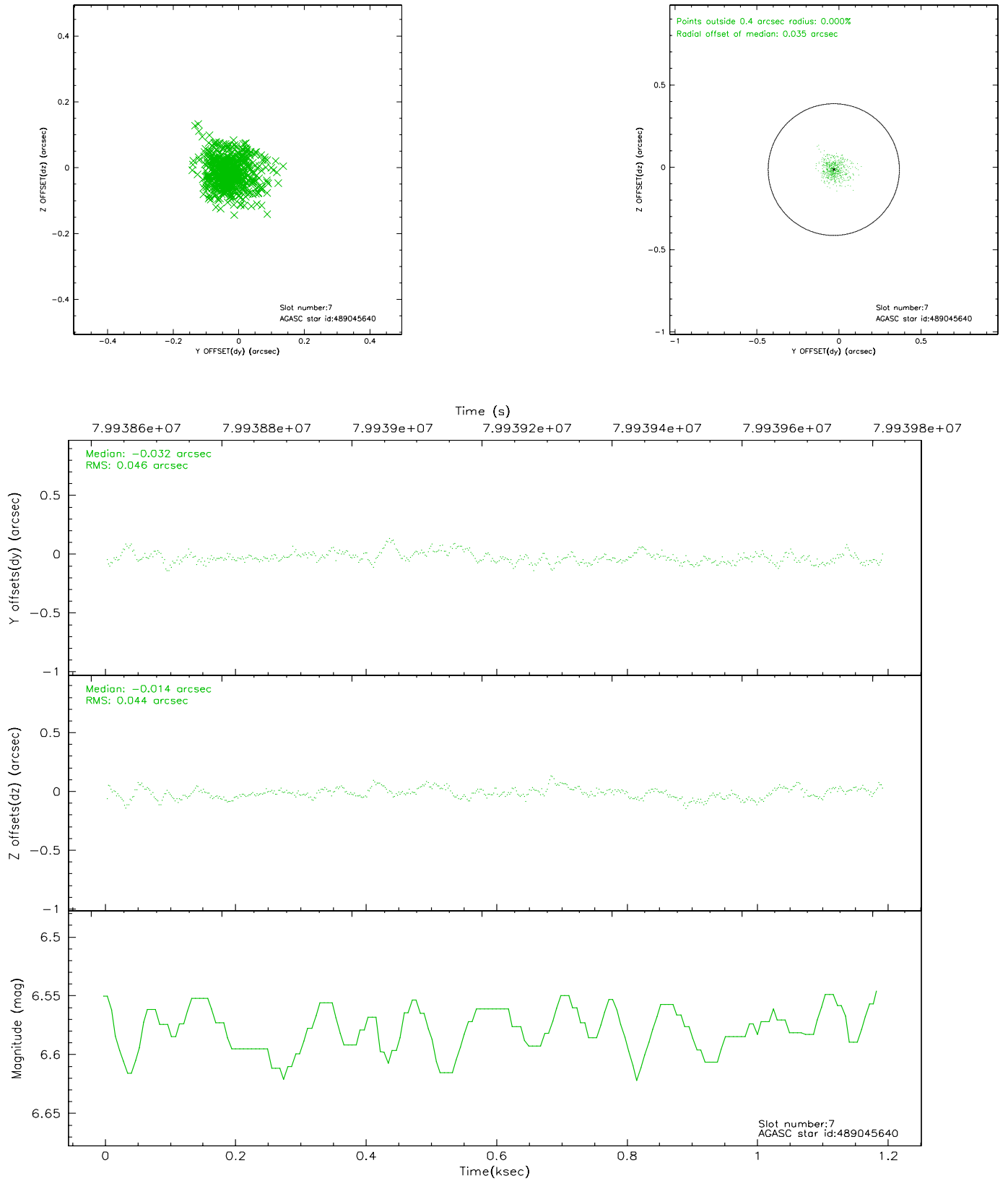
### 2.4.3 Slot 5



## 2.4.4 Slot 6

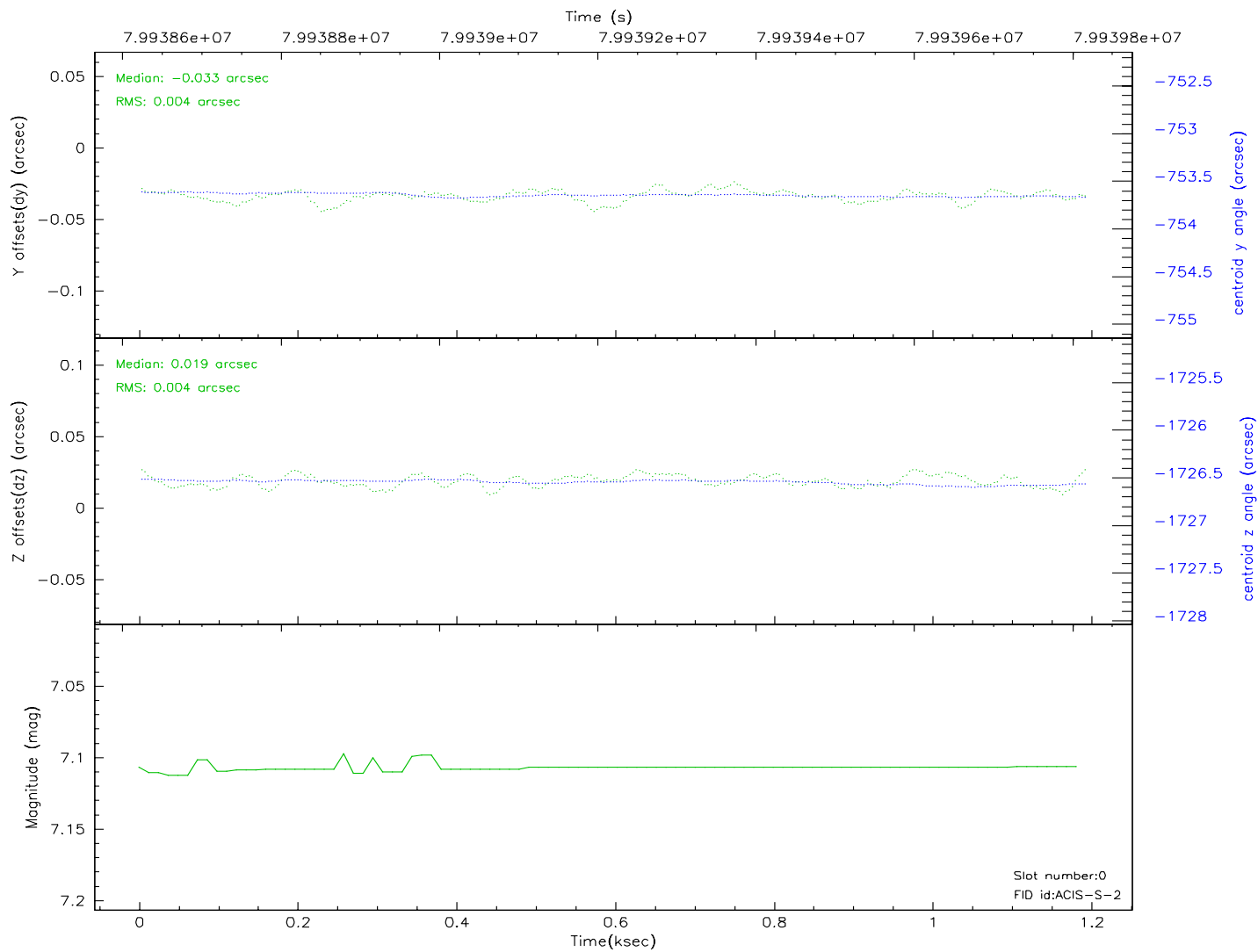
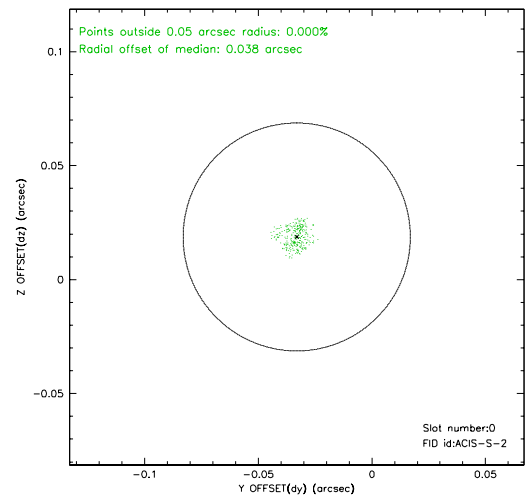
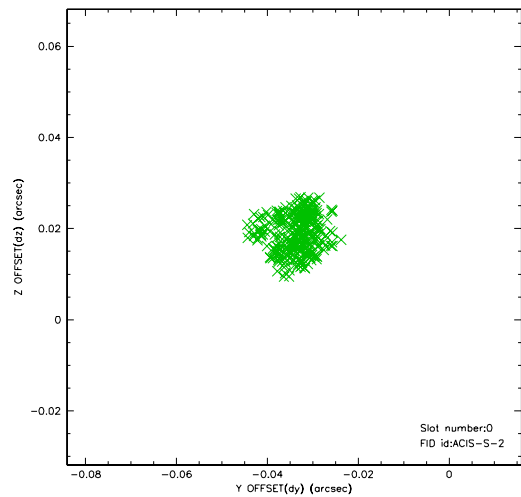


## 2.4.5 Slot 7

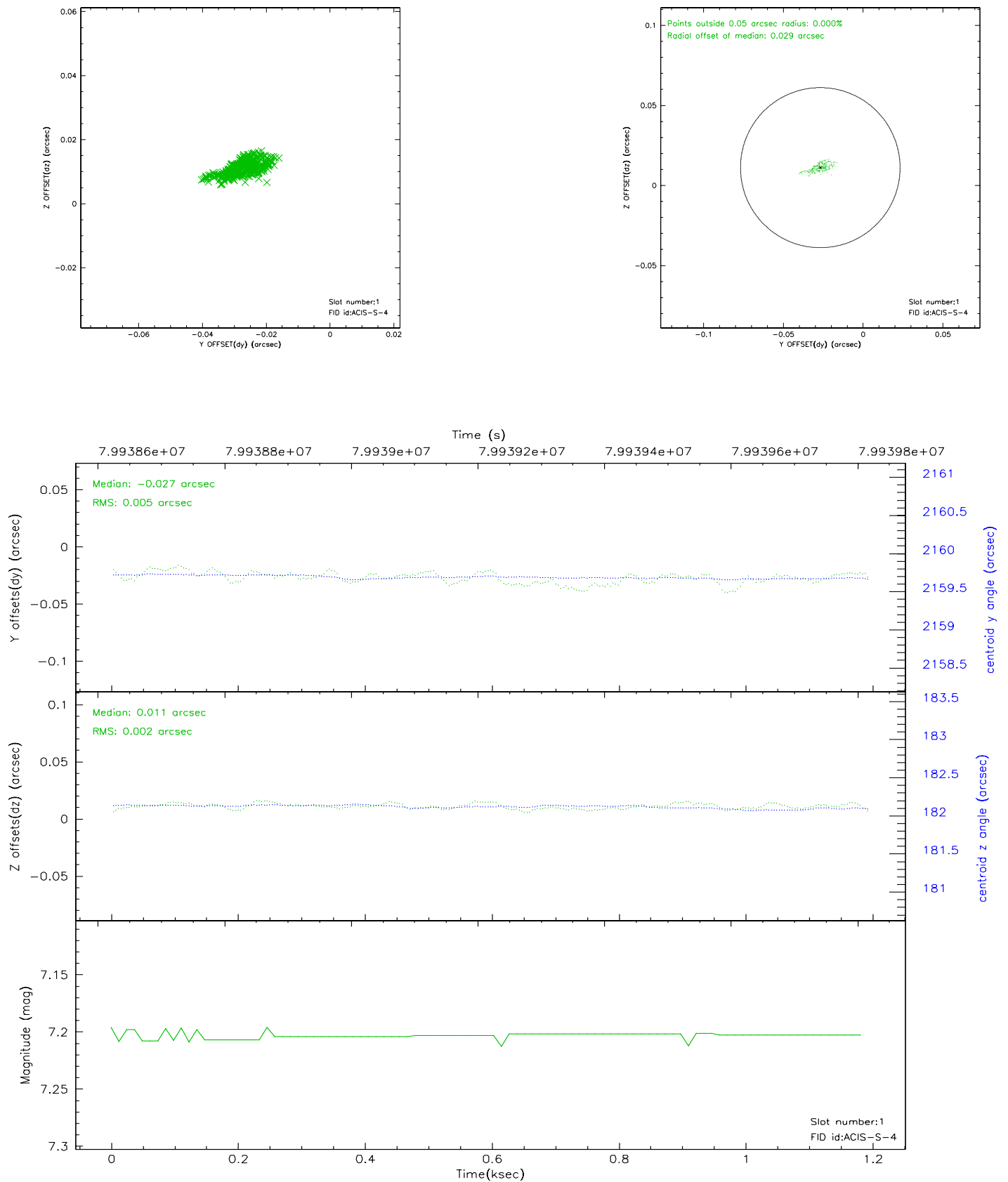


## 2.5 FID Slots

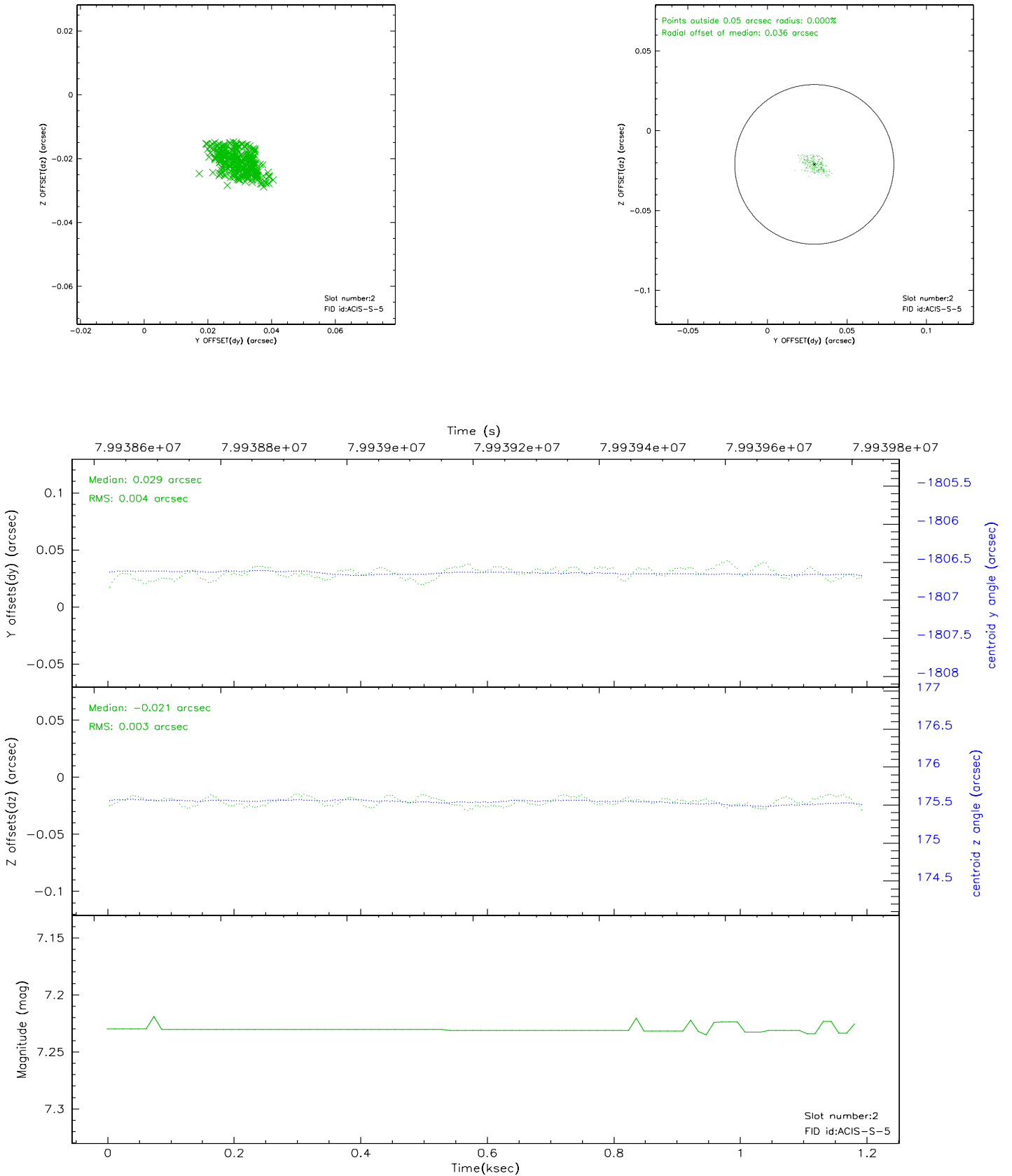
### 2.5.1 Slot 0



## 2.5.2 Slot 1

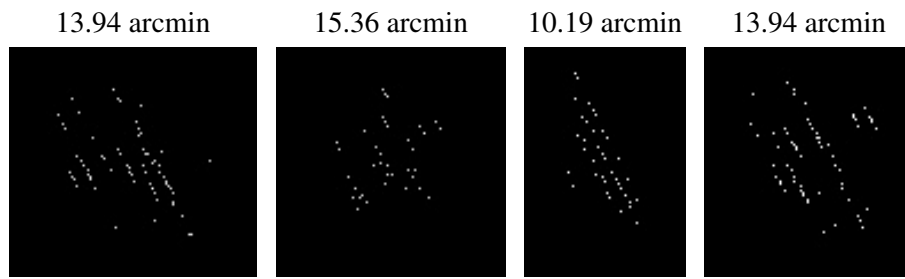


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2007.05.31
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	1.19

### A.2 Comments