

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 4396 - L2 Version 001  
Chandra X-Ray Center

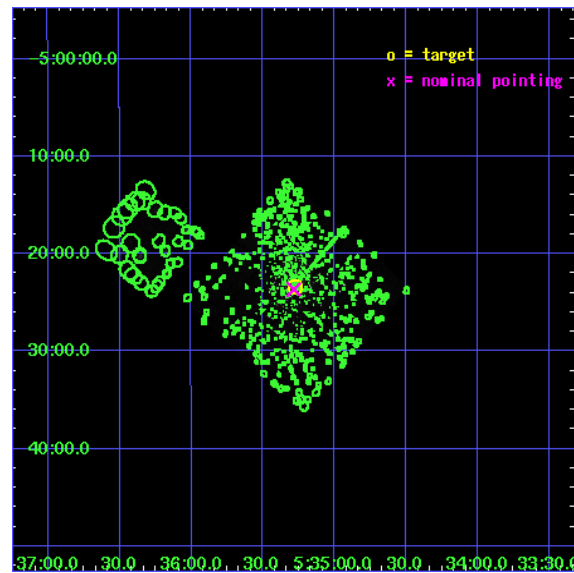
L2 Processing Date : Jul 19 2006

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# 1 Front

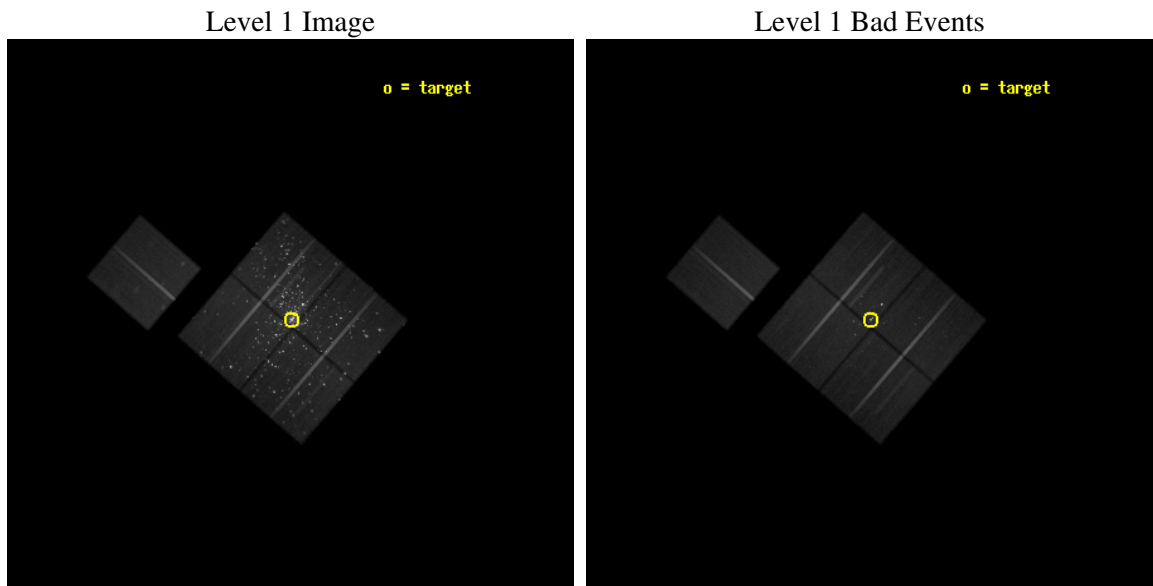
seq_num	200214
obs_id	4396
title	AN ULTRADEEP CHANDRA STUDY OF THE ORION NEBULA (GUEST OBSERVER PORTION)
observer	Prof. Eric Feigelson
object	ORION NEBULA CLUSTER
dtcycle	0
cycle	P
ra_targ	83.819583
dec_targ	-5.39
ra_nom	83.821009416144
dec_nom	-5.3944026196607
roll_nom	310.90882198658
revision	2
ontime	166727.01271802
livetime	164548.60155422
ontime0	166739.57667896
ontime1	166717.58971751
ontime2	166701.88490605
ontime3	166727.01271802
ontime6	166736.43576837
l2events	1526757



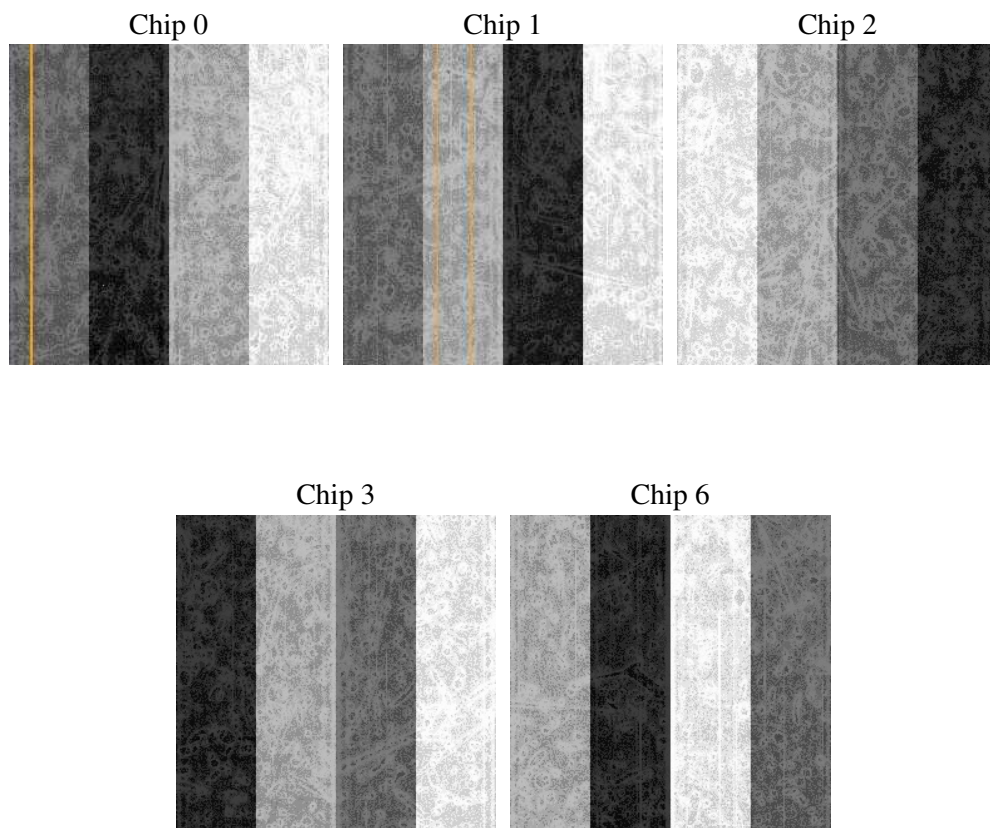
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.8
caldbver	3.2.2
date	2006-07-19T13:52:27
revision	2

sched_exp_time	166633.447000
ontime	166734.35928941
ontime0	166746.92325035
ontime1	166724.93628889
ontime2	166709.23147744
ontime3	166734.35928941
ontime6	166743.78234965
l1events	5578882

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	975043	1005901	1093169	1628883	875886
rejected events	726731	723255	842183	861237	778404
rejected %	74%	71%	77%	52%	88%

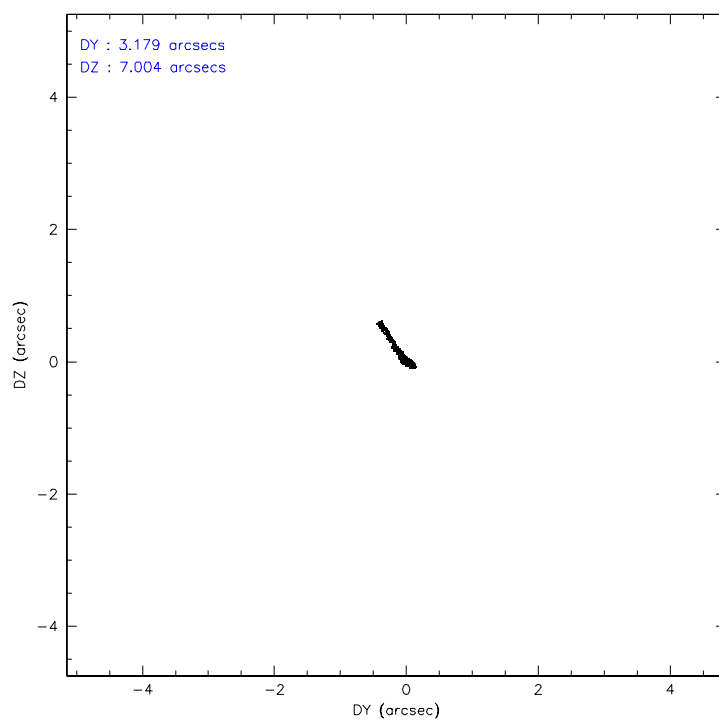
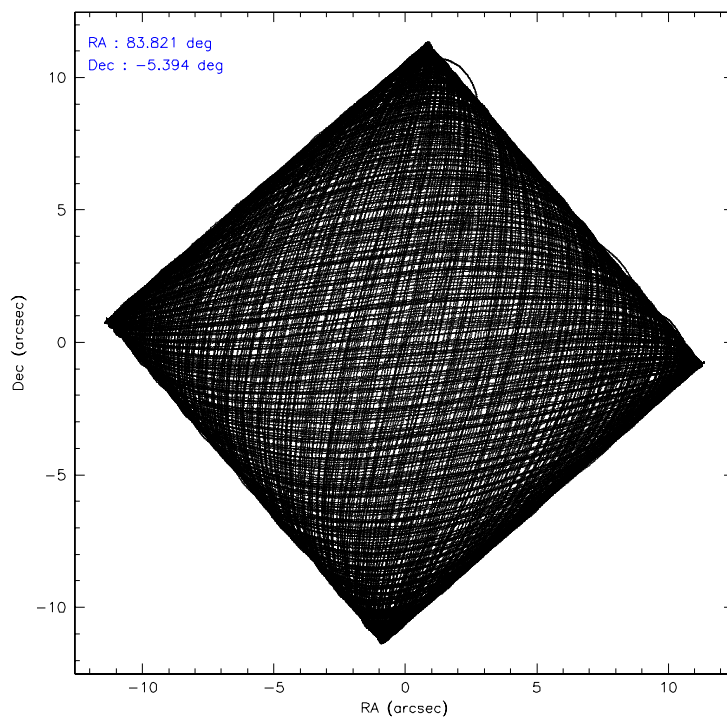
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	166686	190671	169729	548032	42375
	17%	18%	15%	33%	4%
grade 1 events	1627	1931	3256	28857	393
	0%	0%	0%	1%	0%
grade 2 events	34714	38006	35395	99456	18659
	3%	3%	3%	6%	2%
grade 3 events	14889	16539	14204	38255	9978
	1%	1%	1%	2%	1%
grade 4 events	13864	16126	14270	37761	9810
	1%	1%	1%	2%	1%
grade 5 events	24663	27323	24049	50560	27128
	2%	2%	2%	3%	3%
grade 6 events	18172	21318	17419	44169	16664
	1%	2%	1%	2%	1%
grade 7 events	700428	693987	814847	781793	750879
	71%	68%	74%	47%	85%

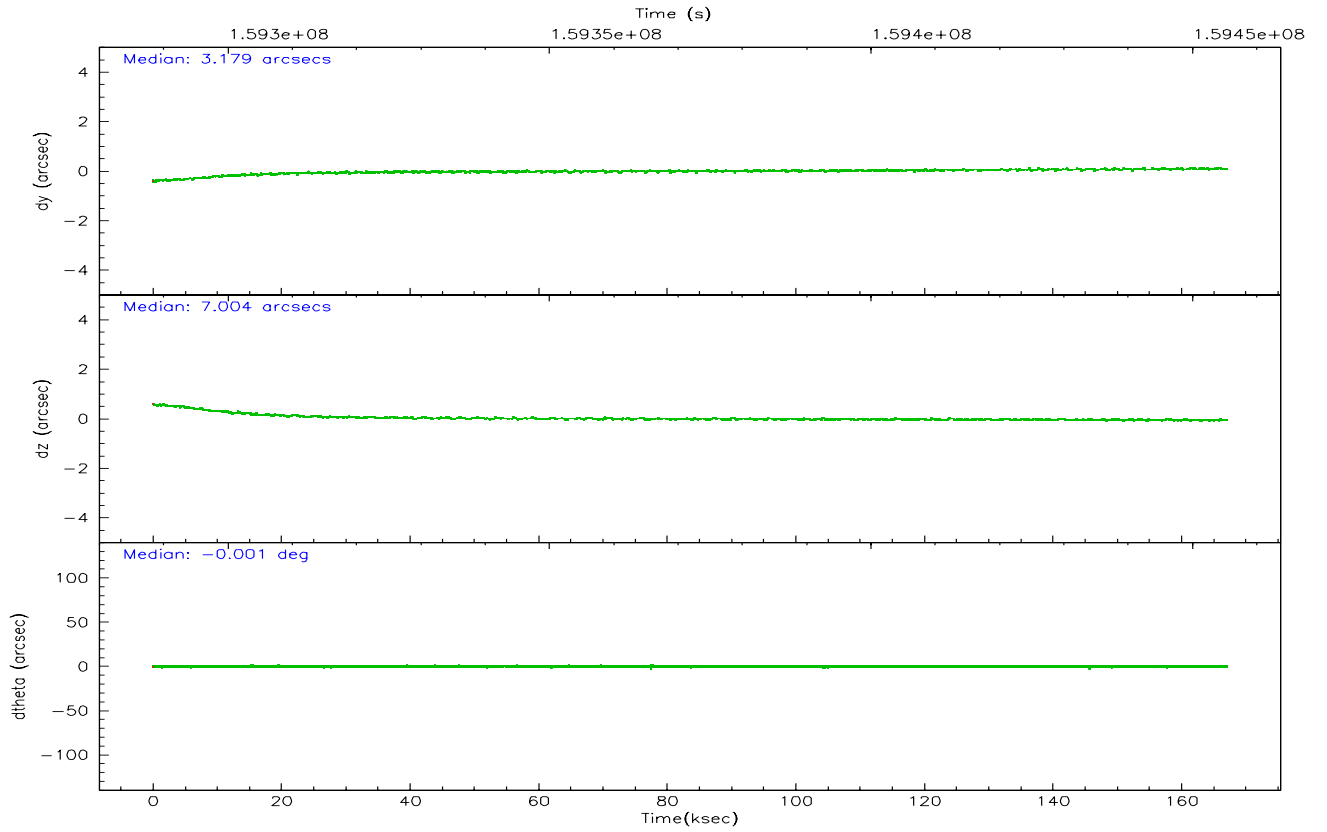
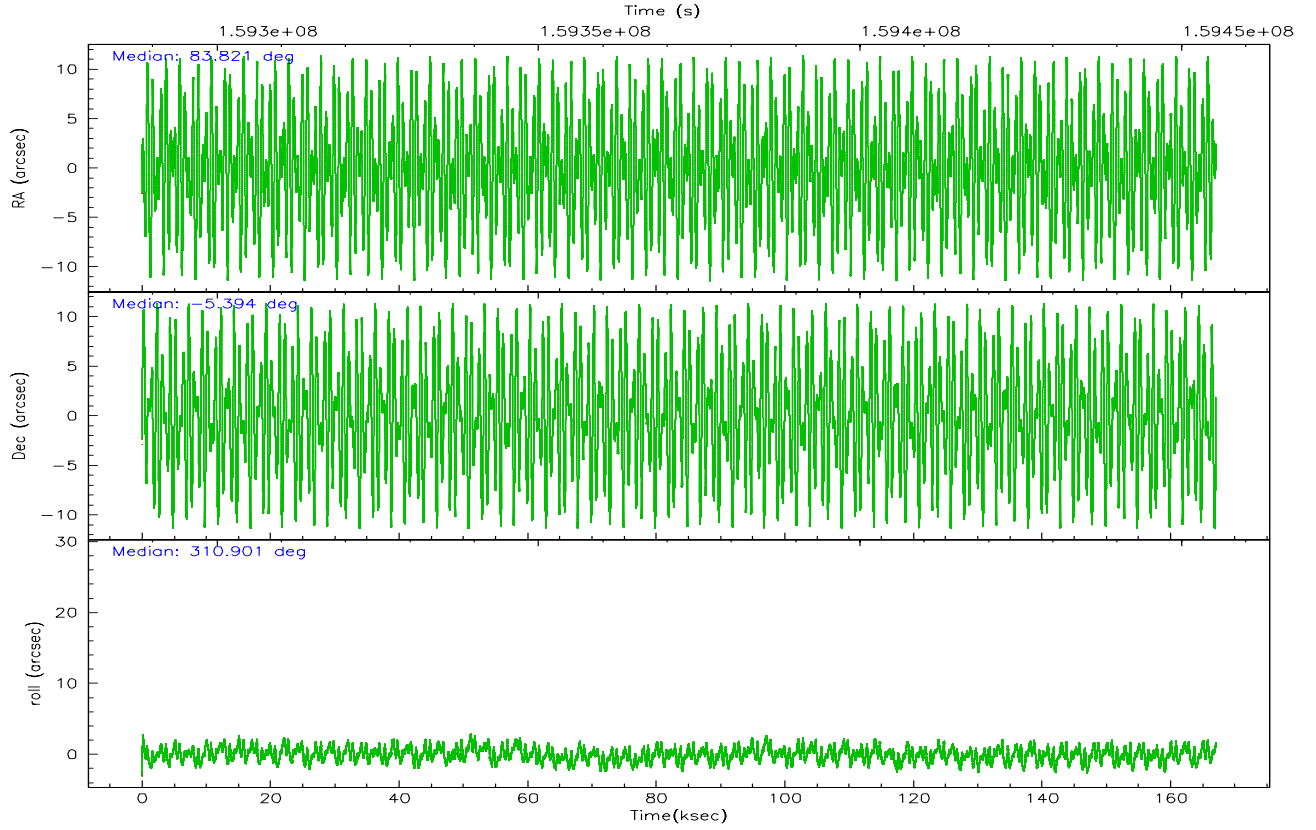


## 2.2 Compared Parameters

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	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	83.794989	83.82100941614362	Alternating exposures requested	N	N
Pointing Dec	-5.385556	-5.394402619660719	Primary exposure time	0.000000	3.1
Pointing Roll	310.697693	310.9088219865794			
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	159288783.184000	159287689.3184			
Observation start date	2003-01-18T14:51:59	2003-01-18T14:34:49			
Observation end time	159455417.184000	159455731.92544			
Observation end date	2003-01-20T13:09:13	2003-01-20T13:15:31			
Read mode	TIMED	TIMED			

## 2.3 Aspect



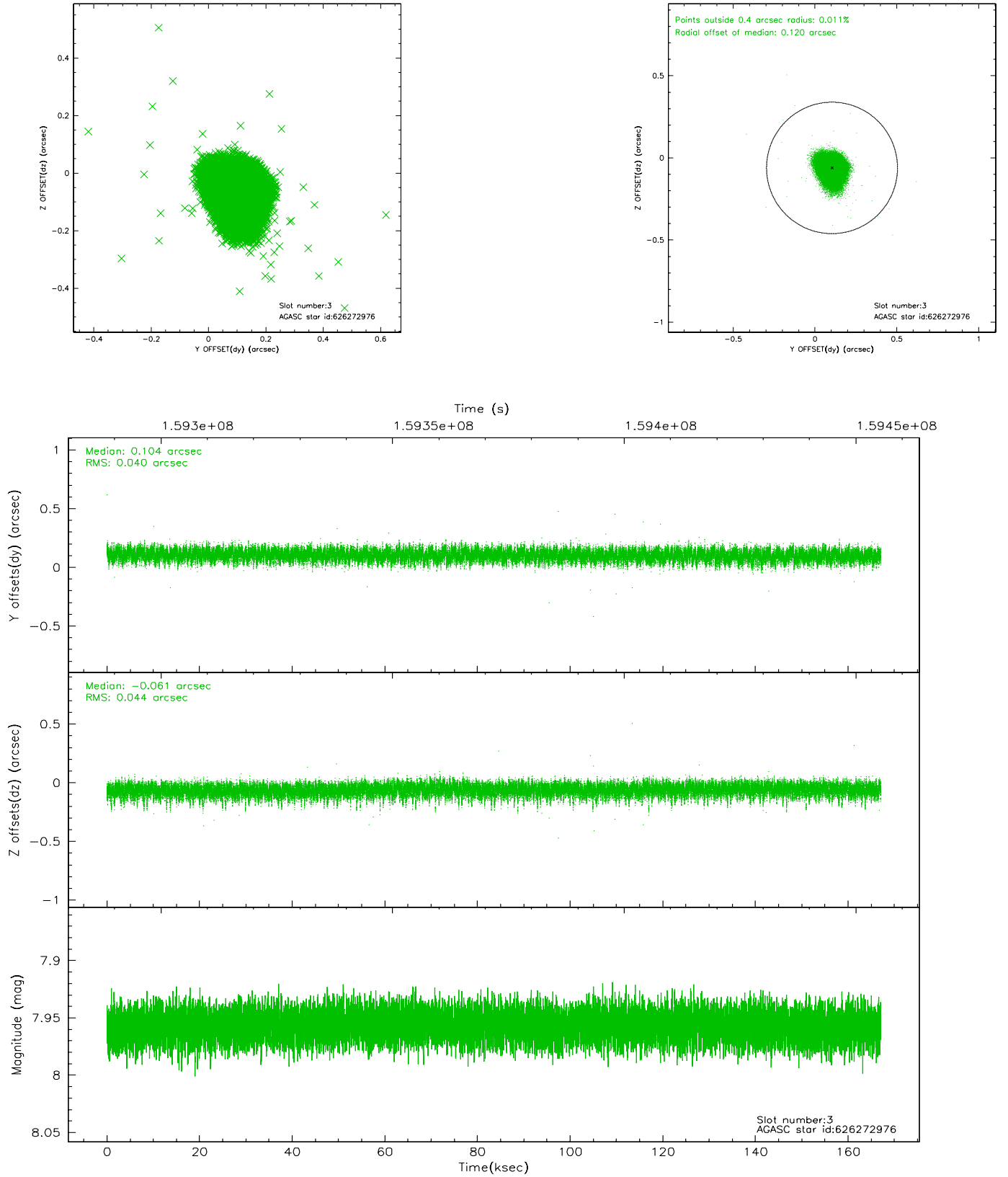


### Slot Statistics

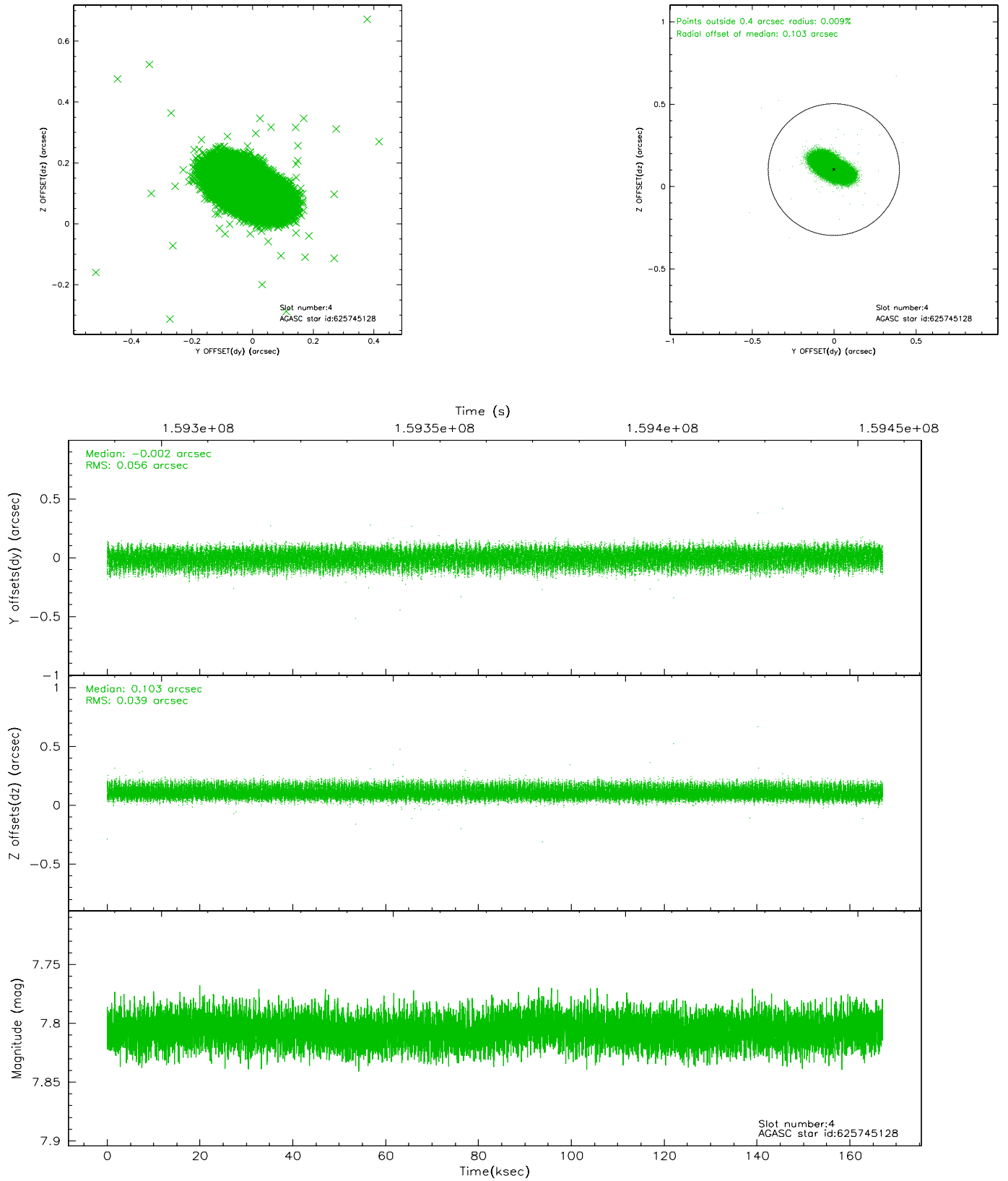
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.25	40749	0.002	0.025	0.007	0.021	0.000000	0.000000	936.61	-830.42
1	FID	ACIS-I-5	7.24	40749	-0.064	0.052	0.007	0.015	0.000000	0.000000	-1811.60	1067.19
2	FID	ACIS-I-6	7.26	40749	-0.029	-0.008	0.007	0.014	0.000000	0.000000	402.29	1711.47
3	GUIDE	626272976	7.96	81478	0.104	-0.061	0.062	0.102	83.795875	-5.926912	1480.20	-1267.94
4	GUIDE	625745128	7.80	81492	-0.002	0.103	0.072	0.122	83.769930	-4.731835	-1842.84	1466.61
5	GUIDE	625745104	7.11	81498	-0.252	0.128	0.091	0.152	83.841109	-4.494168	-2325.40	2218.22
6	GUIDE	626273032	9.20	81402	0.087	-0.124	0.110	0.188	83.765167	-5.983575	1563.16	-1484.34
7	GUIDE	626272880	7.69	81484	0.059	-0.044	0.065	0.104	83.815609	-6.032748	1815.15	-1462.79

## 2.4 Star Slots

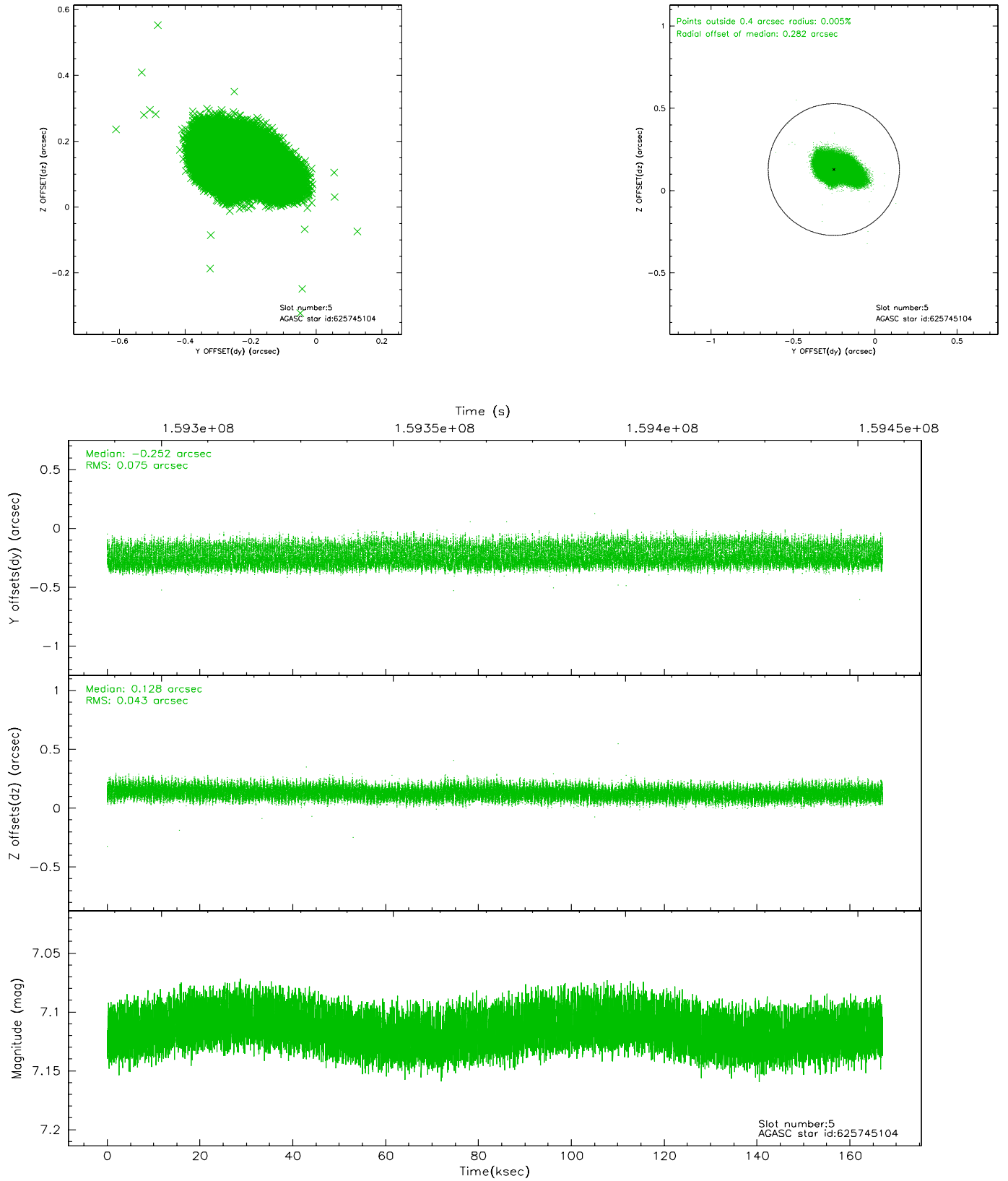
### 2.4.1 Slot 3



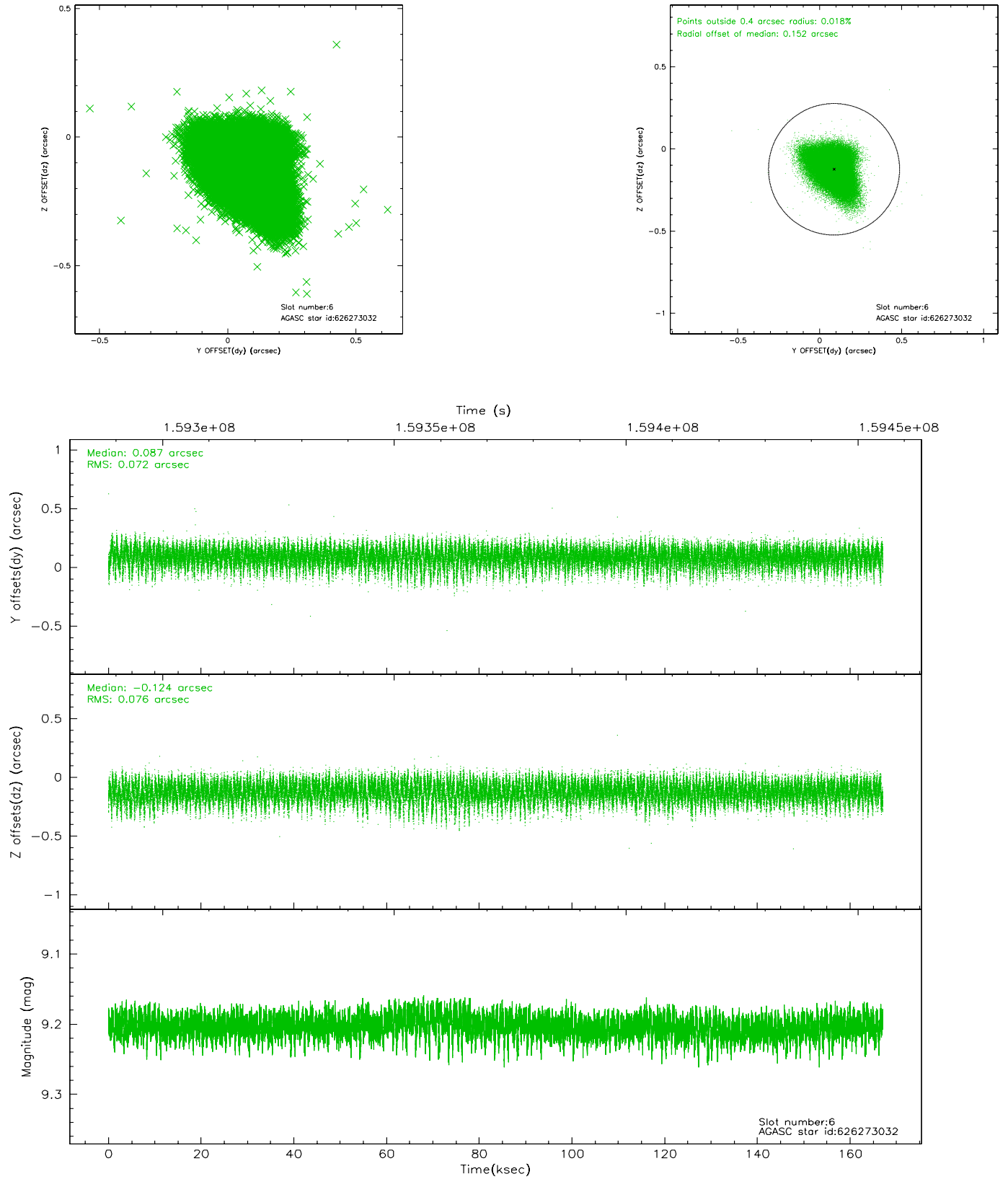
## 2.4.2 Slot 4



### 2.4.3 Slot 5

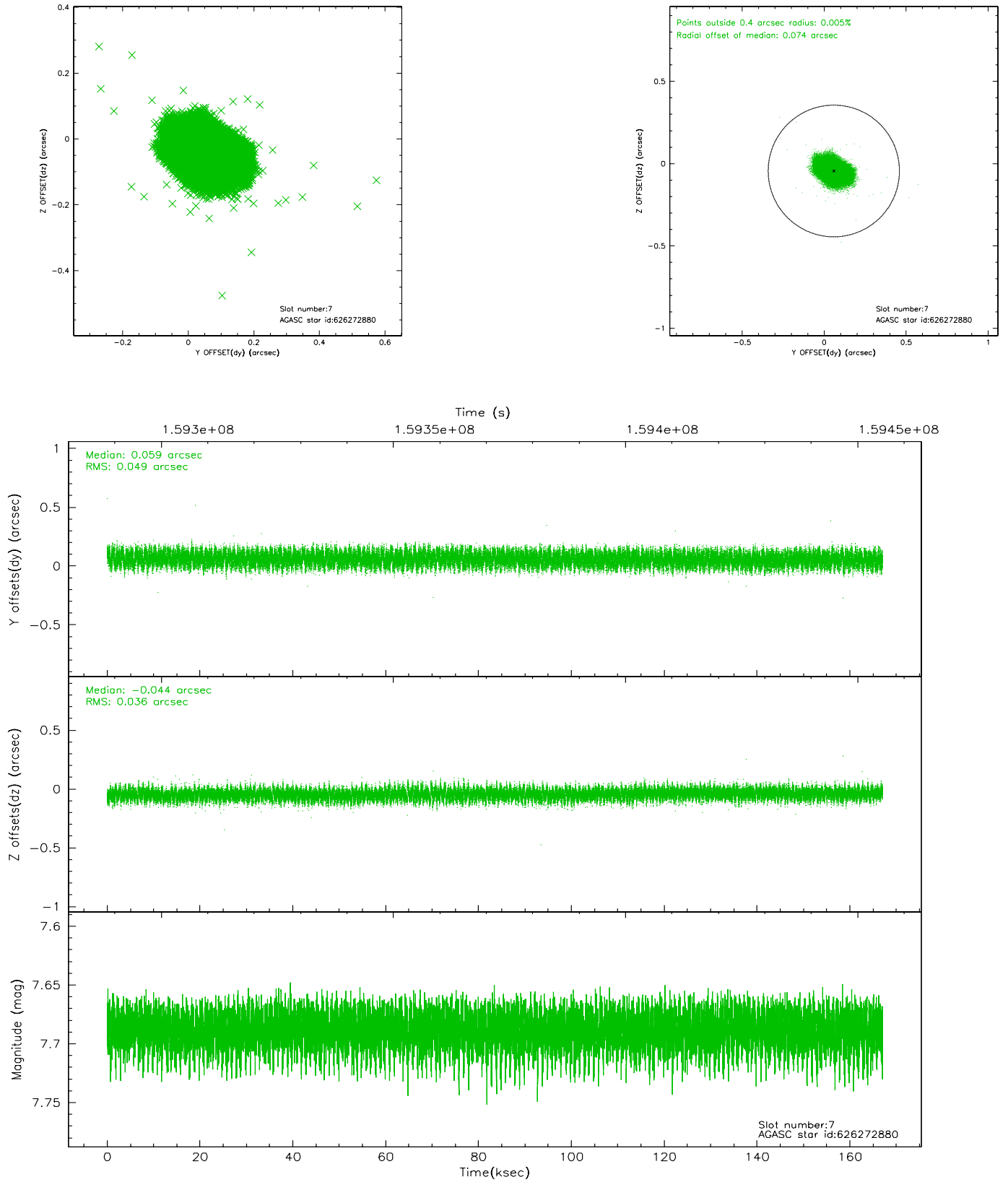


## 2.4.4 Slot 6



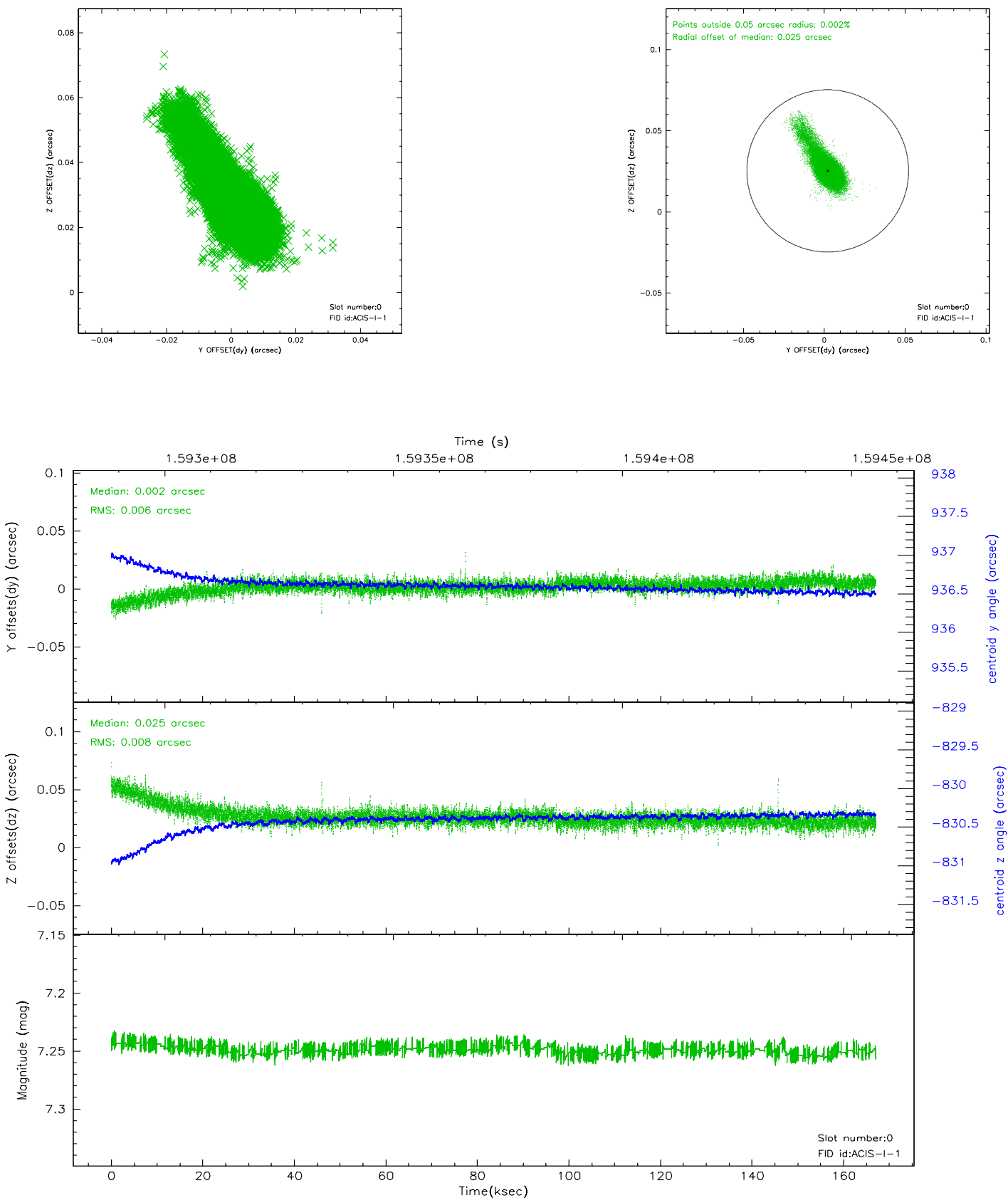


## 2.4.5 Slot 7

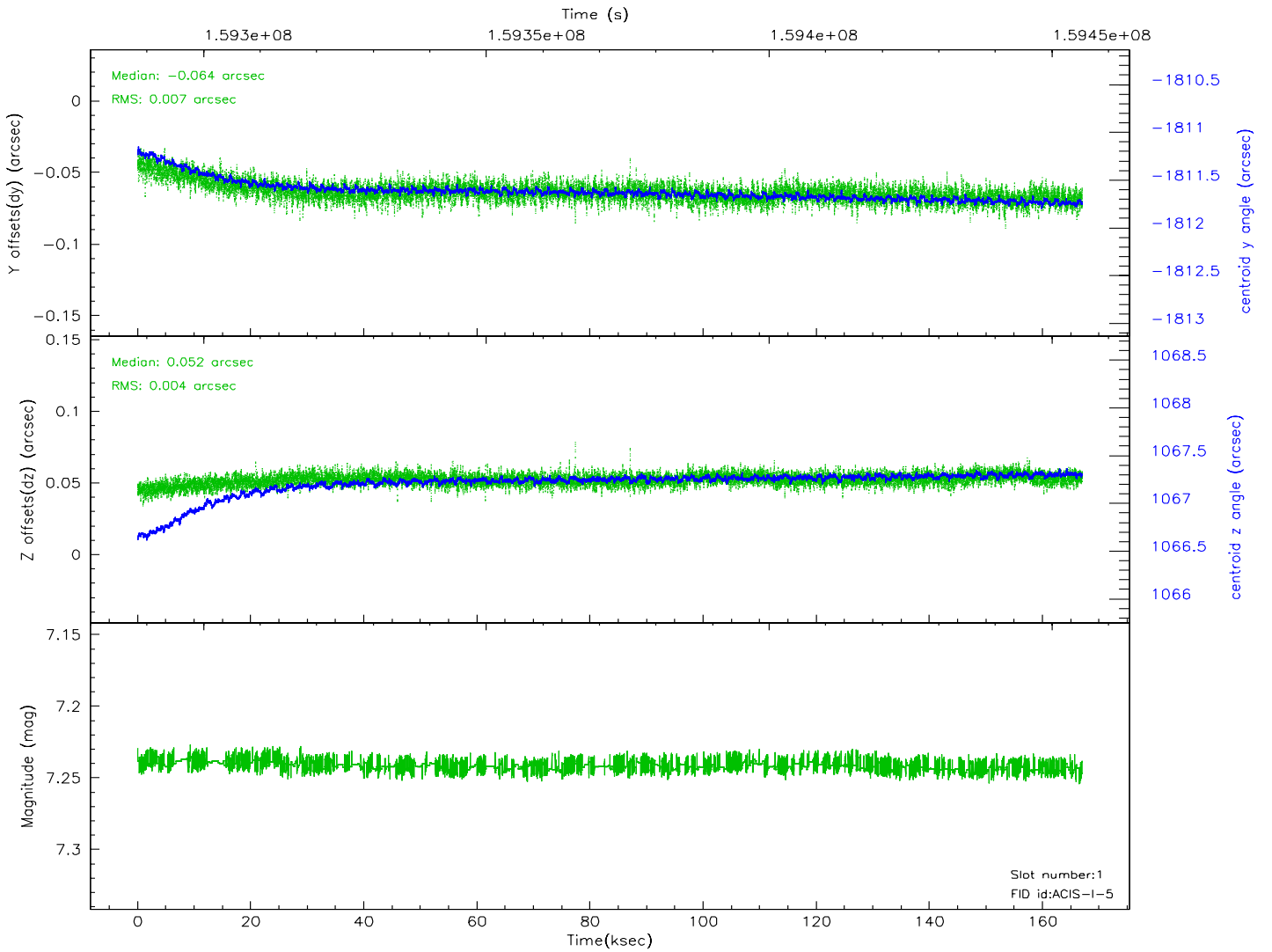
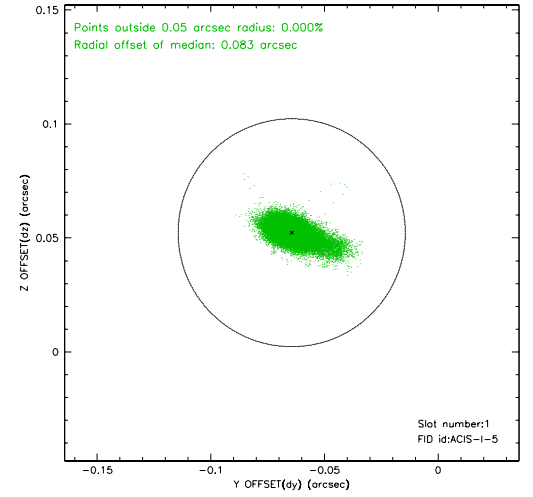
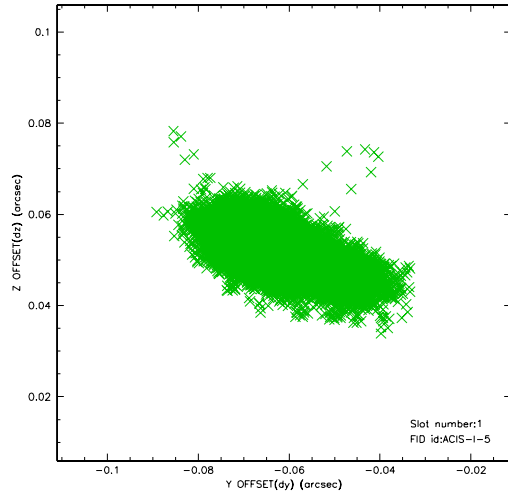


## 2.5 FID Slots

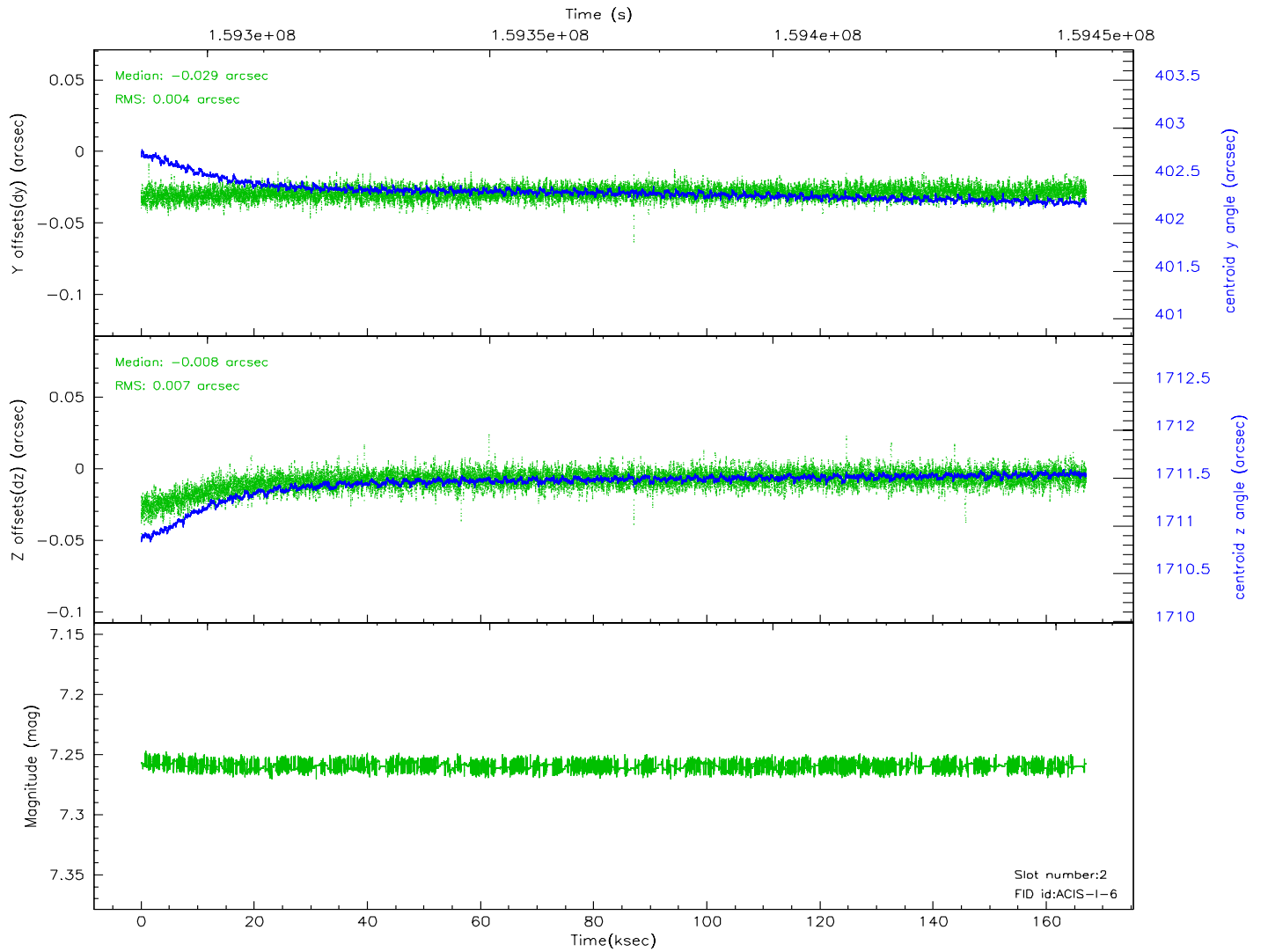
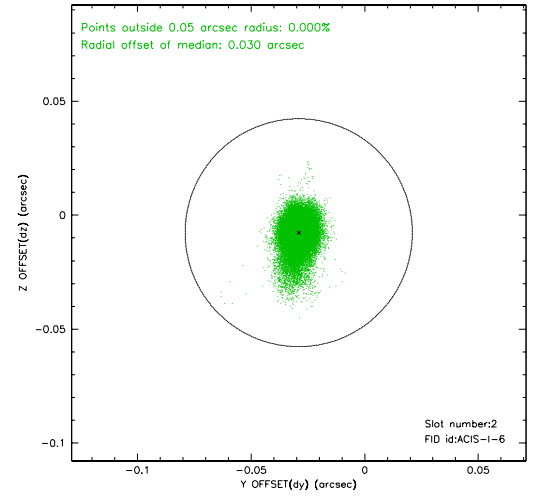
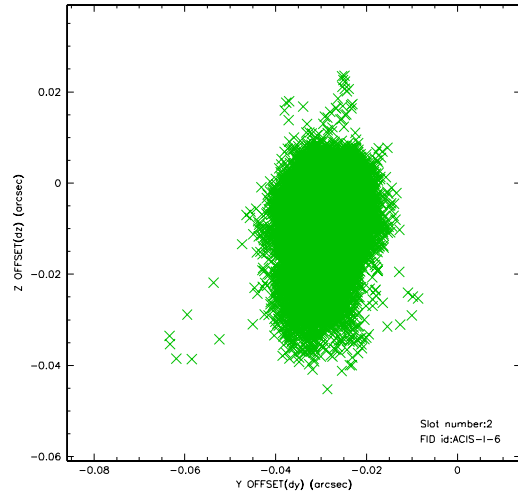
### 2.5.1 Slot 0



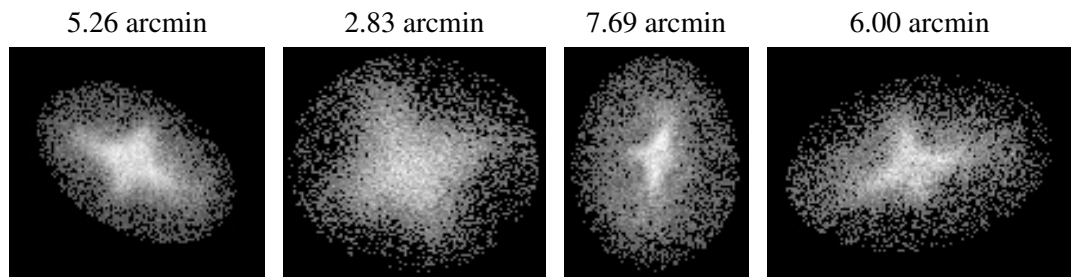
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.07.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	166.7

### A.2 Comments