

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3726 - L2 Version 001  
Chandra X-Ray Center

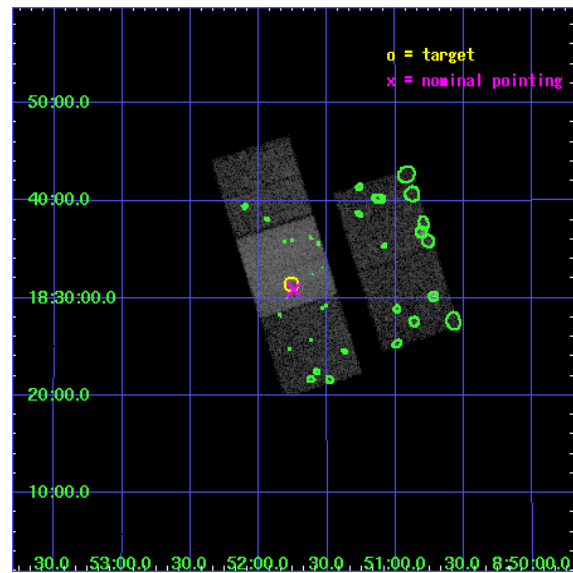
L2 Processing Date : Aug 2 2006

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# 1 Front

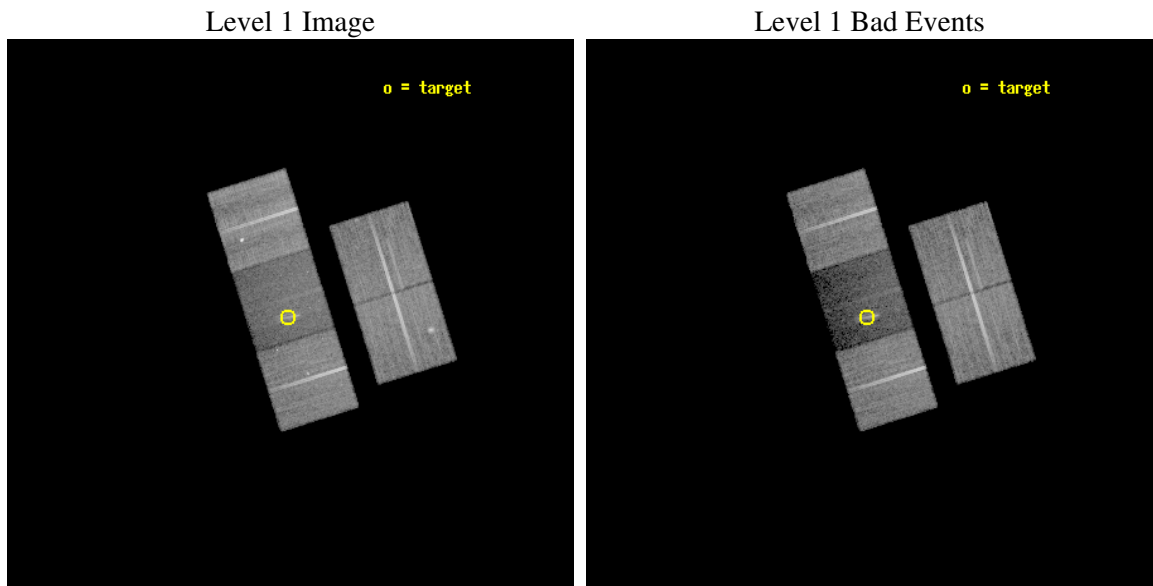
seq_num	100036
obs_id	3726
title	MULTIWAVELENGTH OBSERVATIONS OF JUPITER'S AURORAL HOT SPOT
observer	Dr. Ronald Elsner
object	JUPITER
dtcycle	0
cycle	P
ra_targ	132.94081
dec_targ	18.52364
ra_nom	132.93610060221
dec_nom	18.515081774029
roll_nom	252.58483405273
revision	3
ontime	30014.199942291
livetime	29622.042323912
ontime2	30011.058952063
ontime3	30014.199942291
ontime6	30007.917981833
ontime7	30014.199942291
ontime8	30014.199942291
l2events	81475



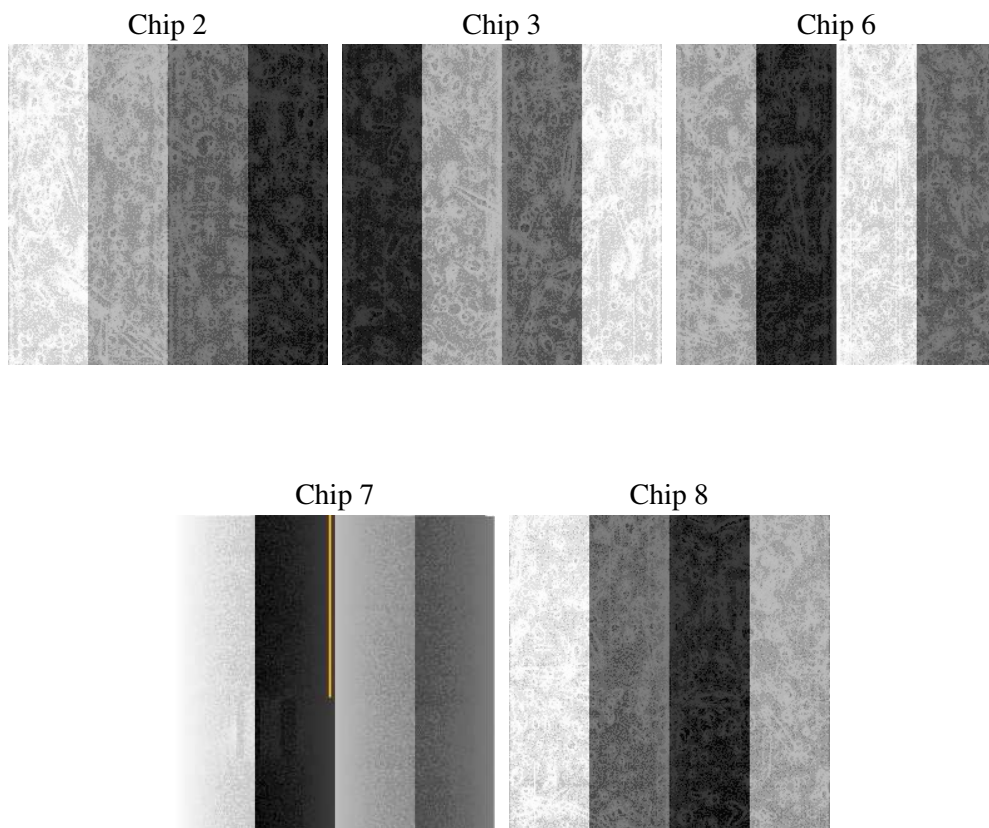
## 2 OBI

### 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	2006-08-02T14:10:43
revision	3

sched_exp_time	29923.000000
ontime	30018.630112261
ontime2	30015.489122033
ontime3	30018.630112261
ontime6	30012.348151803
ontime7	30018.630112261
ontime8	30018.630112261
l1events	662661

### 2.1.4 Events

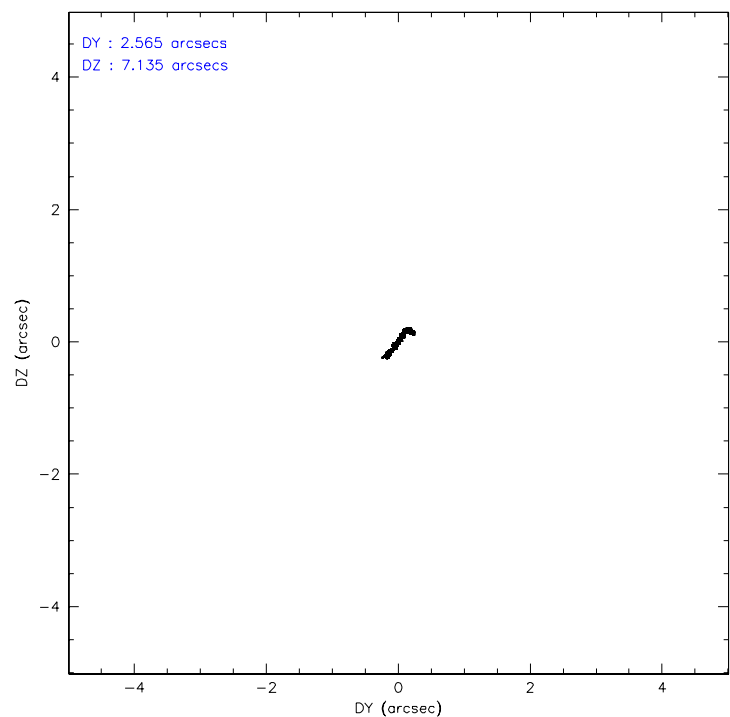
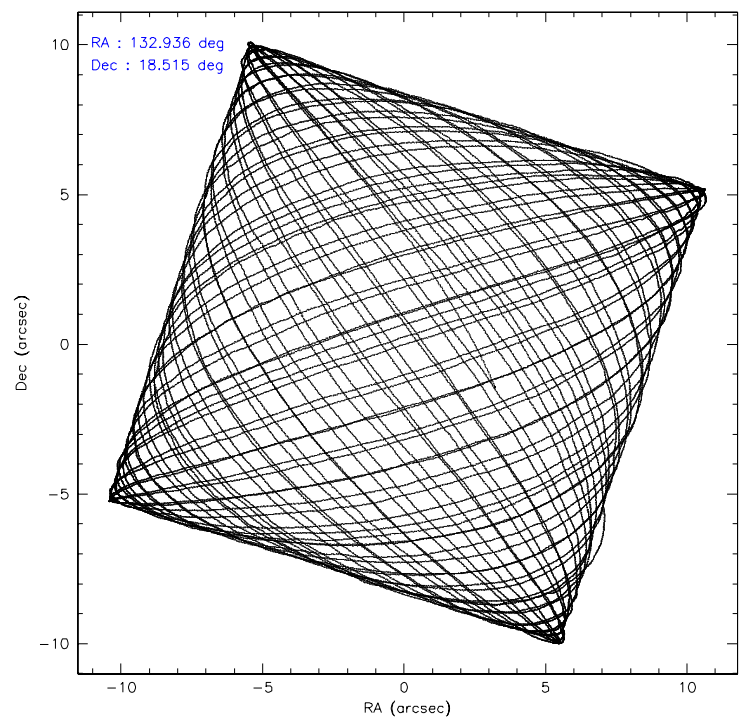
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	145420	133935	137513	79256	166537
rejected events	132236	122497	124623	41706	126345
rejected %	90%	91%	90%	52%	75%

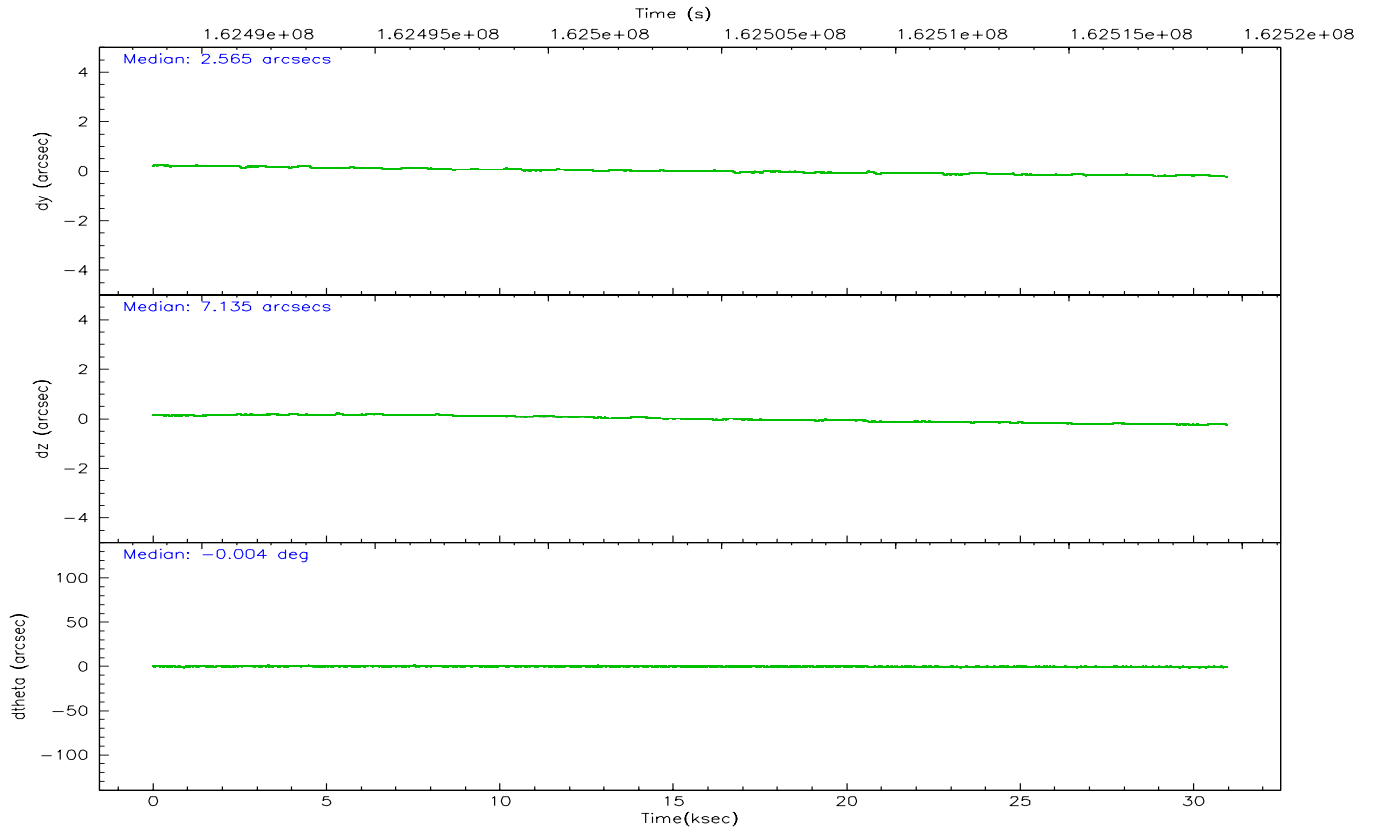
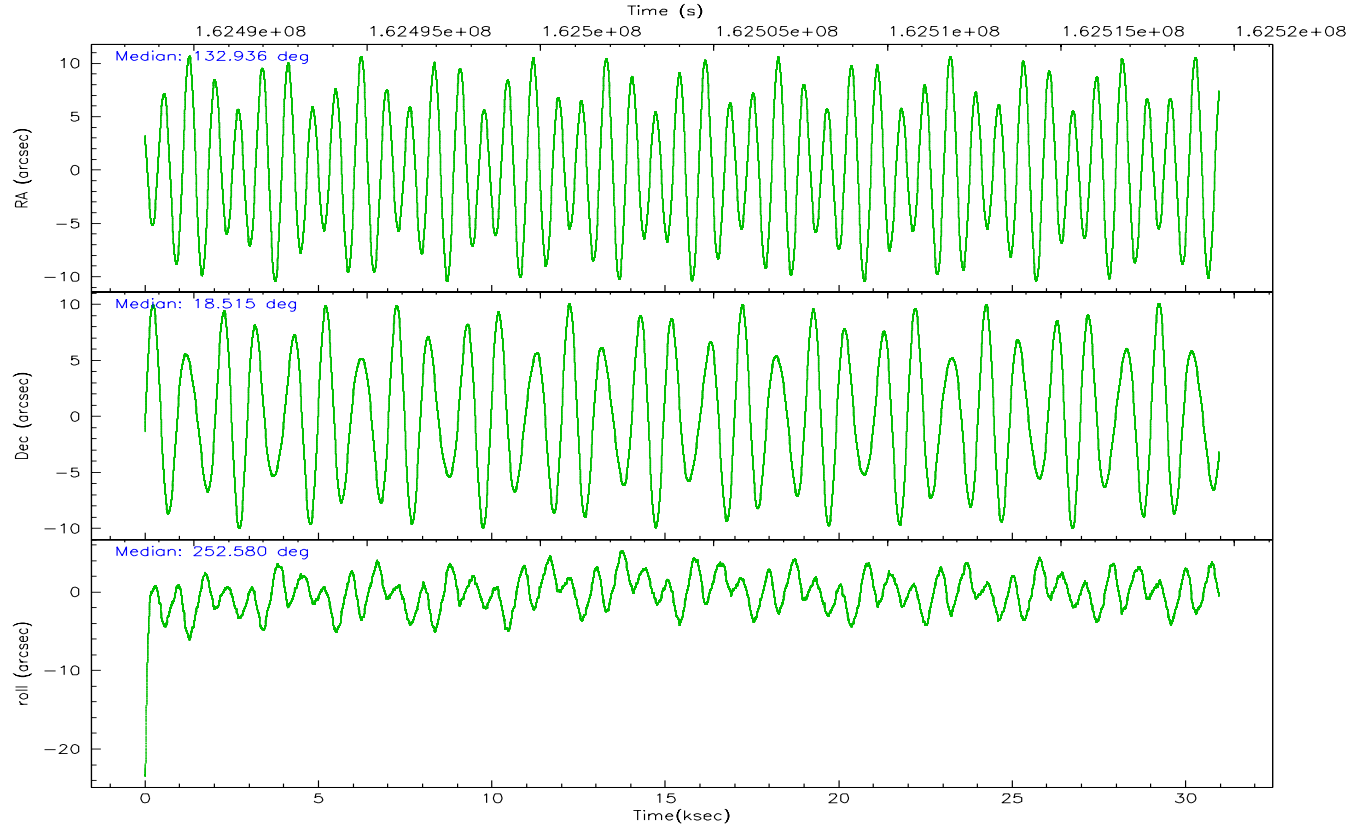
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	6164	4900	5553	3457	12463
	4%	3%	4%	4%	7%
grade 1 events	75	64	51	90	129
	0%	0%	0%	0%	0%
grade 2 events	2701	2200	2566	9568	8644
	1%	1%	1%	12%	5%
grade 3 events	1301	1364	1392	2268	4609
	0%	1%	1%	2%	2%
grade 4 events	1352	1257	1395	2241	4368
	0%	0%	1%	2%	2%
grade 5 events	2180	2496	2768	6264	4437
	1%	1%	2%	7%	2%
grade 6 events	1672	1718	1986	20021	10108
	1%	1%	1%	25%	6%
grade 7 events	129975	119936	121802	35347	121779
	89%	89%	88%	44%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-23678	ACIS-23678	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	132.929464	132.9361006022077	Alternating exposures requested	N	N
Pointing Dec	18.541559	18.51508177402871	Primary exposure time	0.000000	3.1
Pointing Roll	252.430317	252.5848340527324			
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	162489640.184000	162488245.80274			
Observation start date	2003-02-24T15:59:36	2003-02-24T15:37:25			
Observation end time	162519563.184000	162519744.56657			
Observation end date	2003-02-25T00:18:19	2003-02-25T00:22:24			
Read mode	TIMED	TIMED			

## 2.3 Aspect





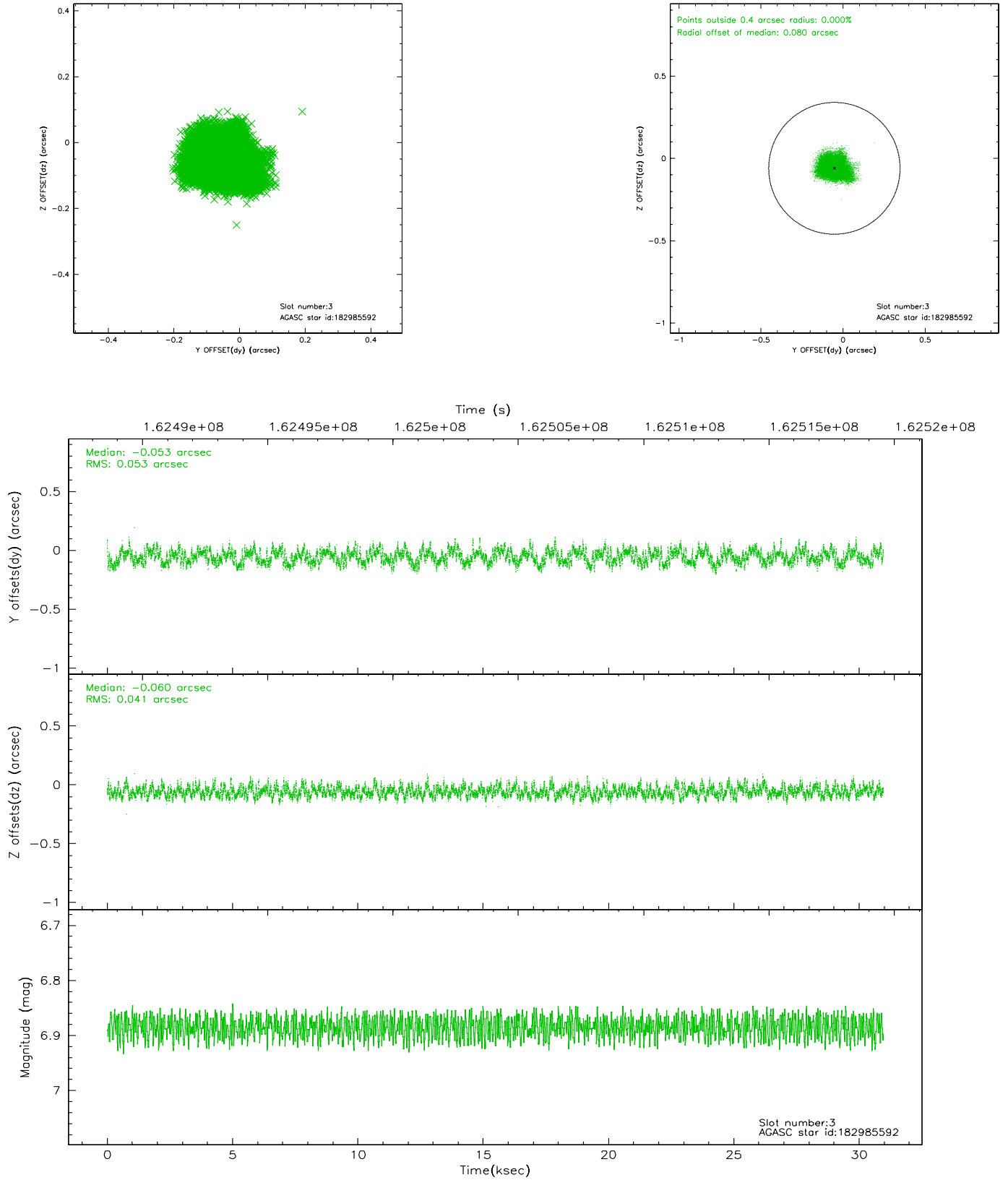
### Slot Statistics

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	7555	-0.017	0.017	0.008	0.013	0.000000	0.000000	-755.21	-1728.29
1	FID	ACIS-S-4	7.20	7553	-0.045	0.004	0.006	0.010	0.000000	0.000000	2158.00	180.13
2	FID	ACIS-S-5	7.24	7554	0.031	-0.012	0.009	0.016	0.000000	0.000000	-1807.93	173.84
3	GUIDE	182985592	6.88	15108	-0.053	-0.060	0.073	0.112	132.688010	18.832182	-749.28	-1100.26
4	GUIDE	182991352	8.87	15105	-0.196	-0.039	0.071	0.117	132.561076	19.276214	-2144.57	-1992.53
5	GUIDE	182992528	9.47	15082	0.214	0.019	0.090	0.147	132.603309	18.193633	1530.22	-685.47
6	GUIDE	182989392	9.26	15100	0.075	0.023	0.091	0.150	132.825117	17.883707	2365.98	374.43
7	GUIDE	183112280	7.88	15107	-0.029	0.060	0.077	0.126	133.483665	18.233589	482.47	2140.82

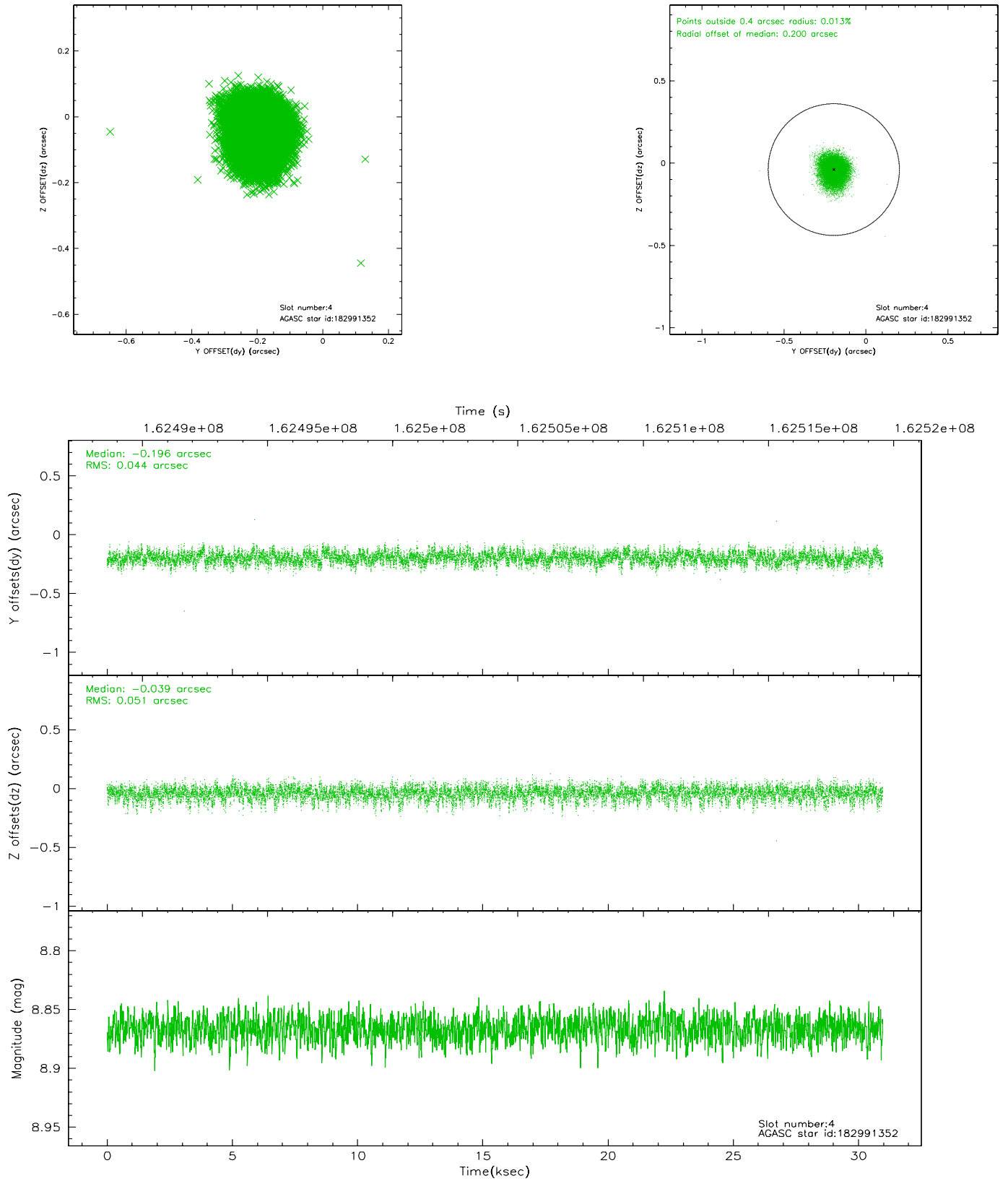


## 2.4 Star Slots

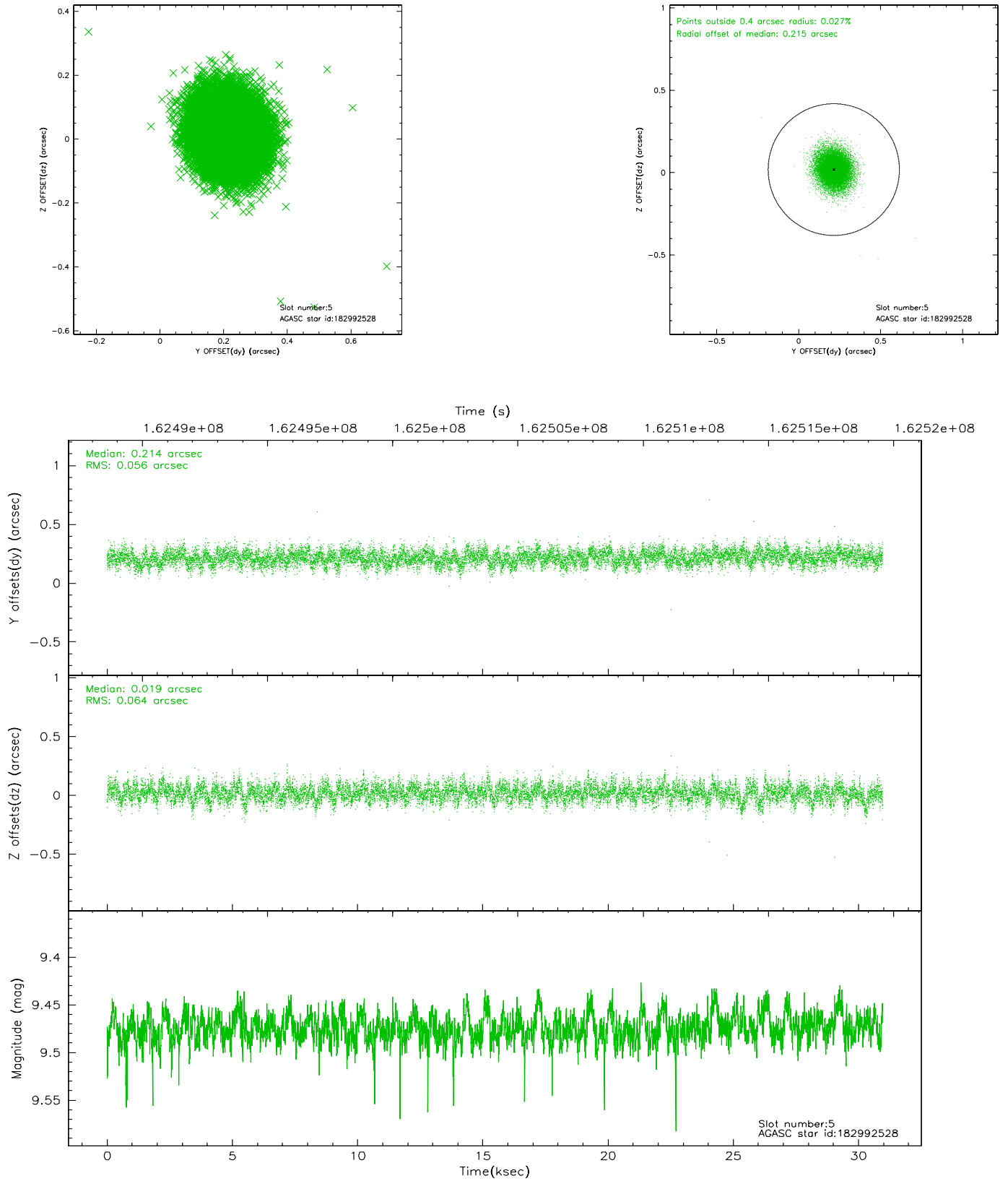
### 2.4.1 Slot 3



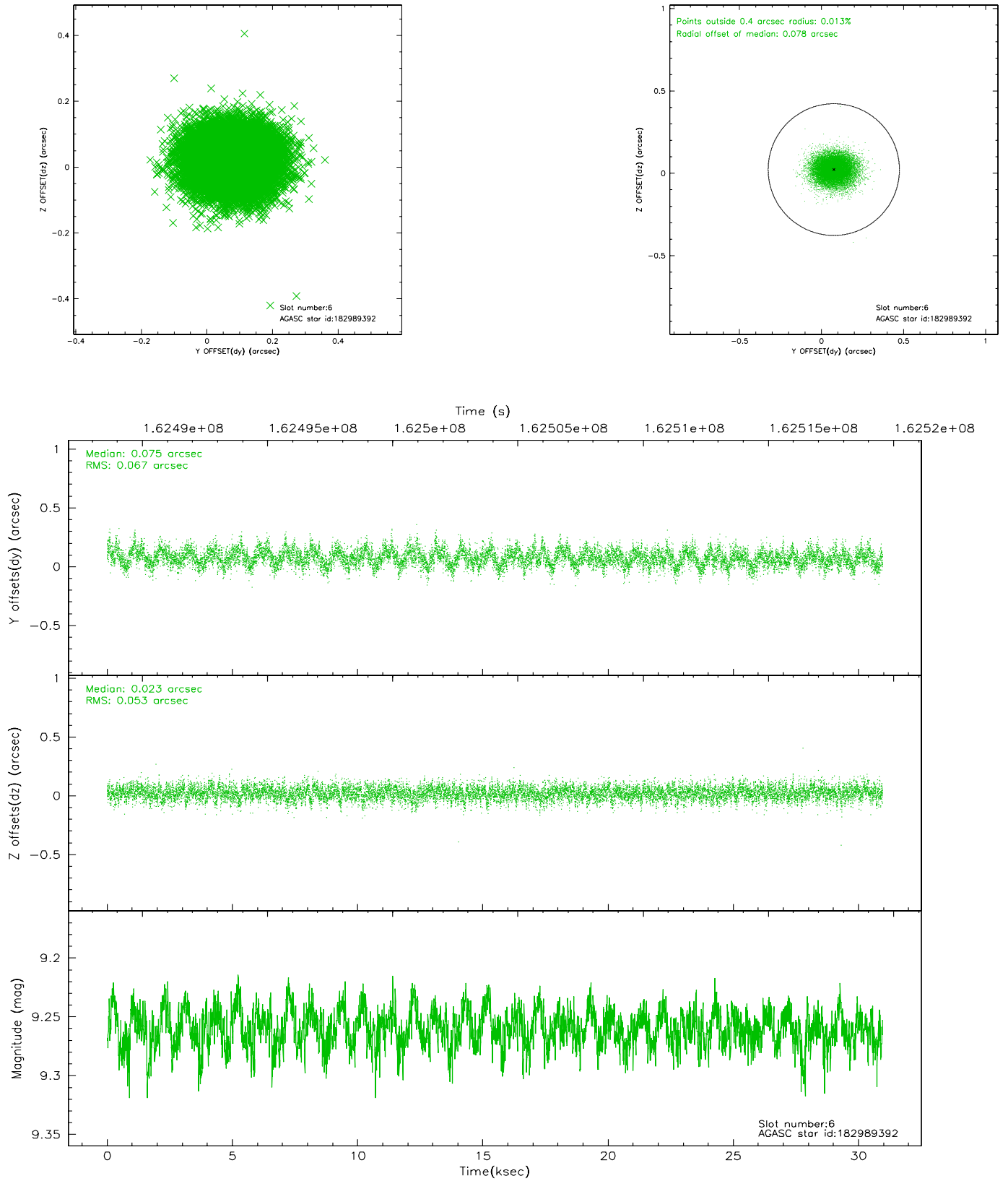
## 2.4.2 Slot 4



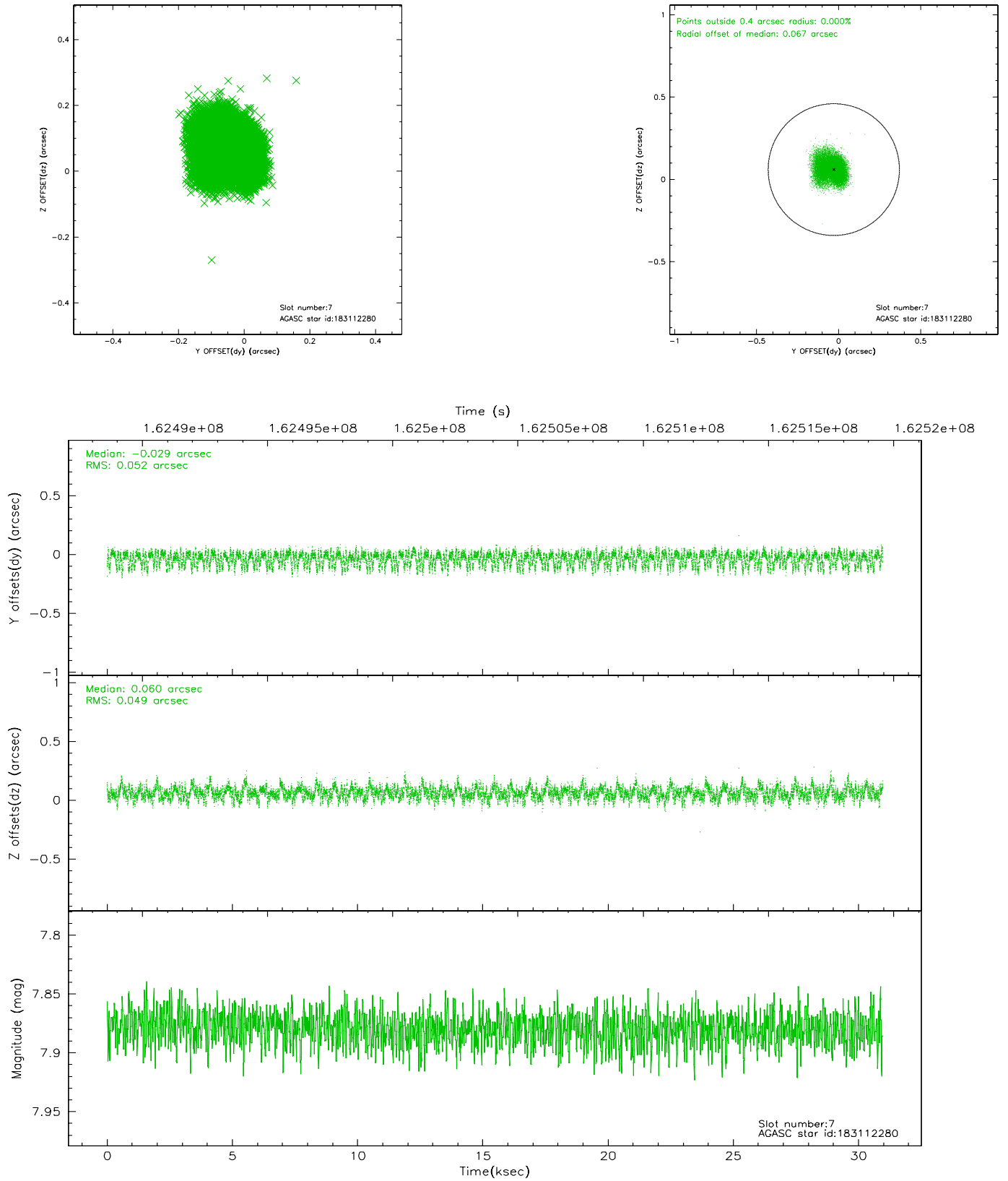
### 2.4.3 Slot 5



## 2.4.4 Slot 6

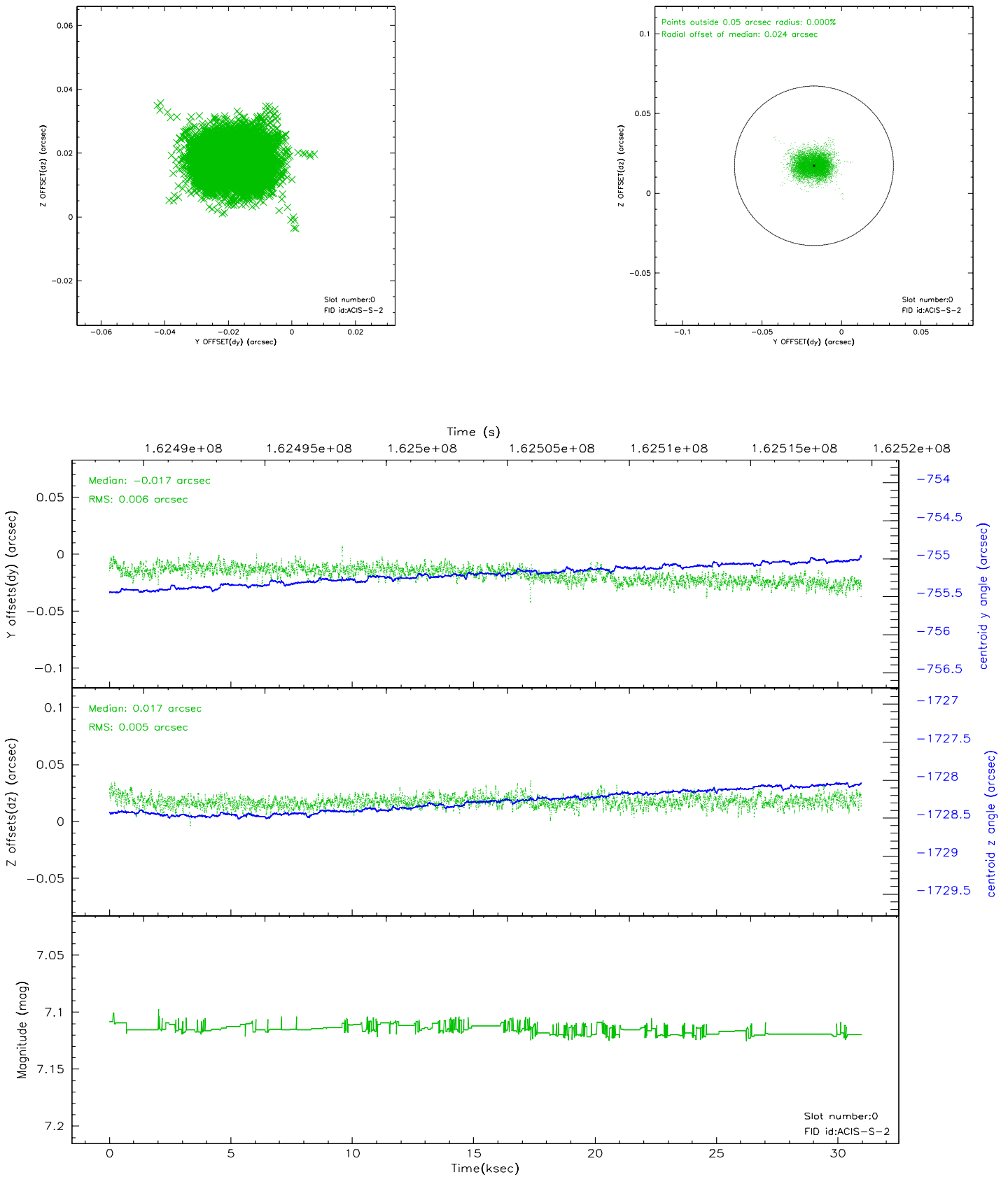


## 2.4.5 Slot 7

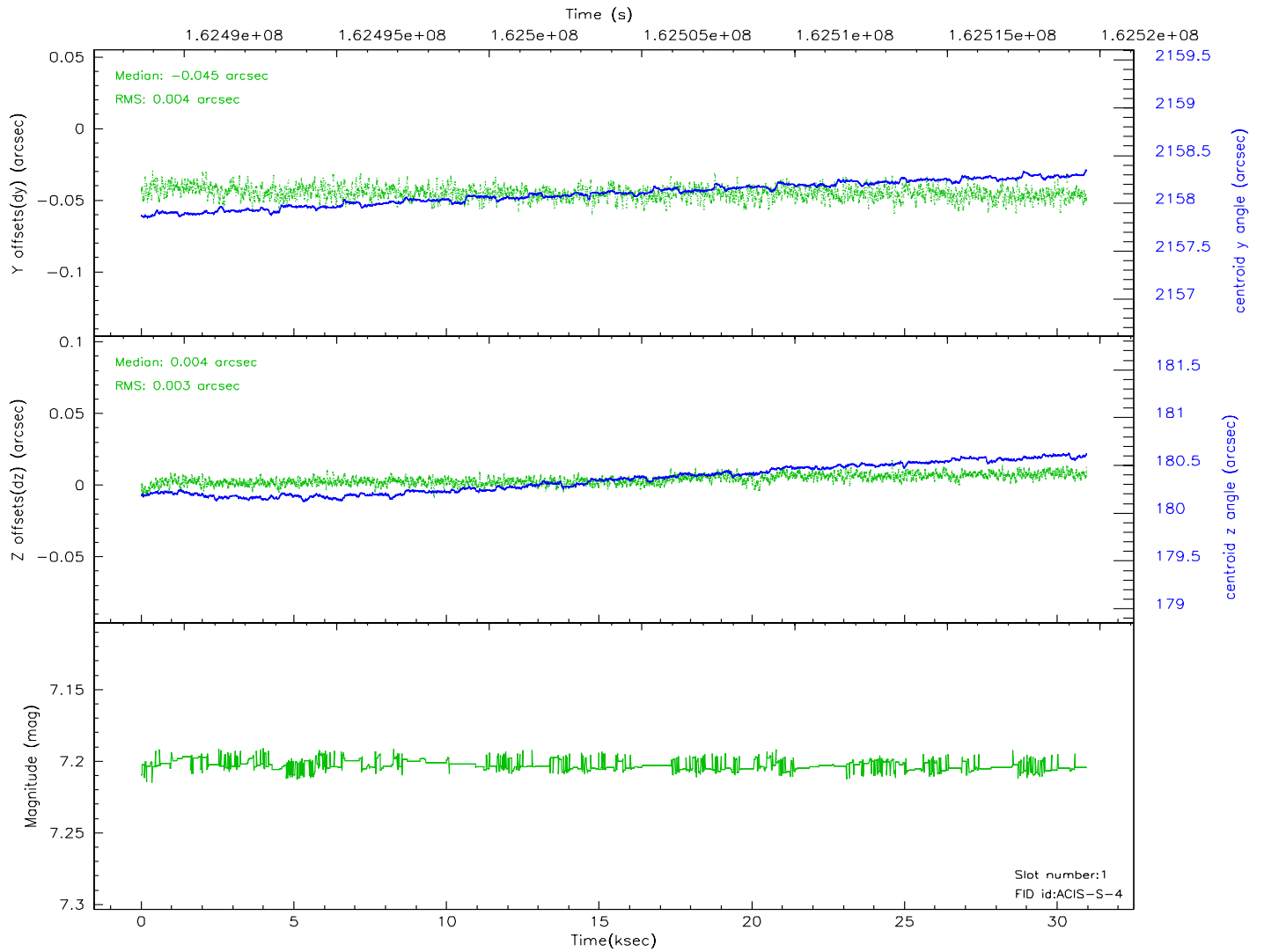
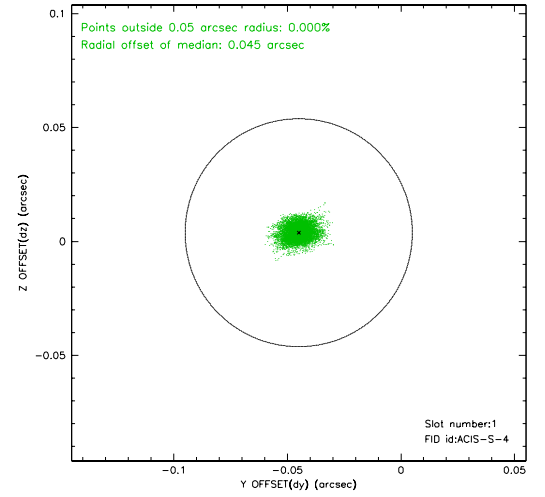
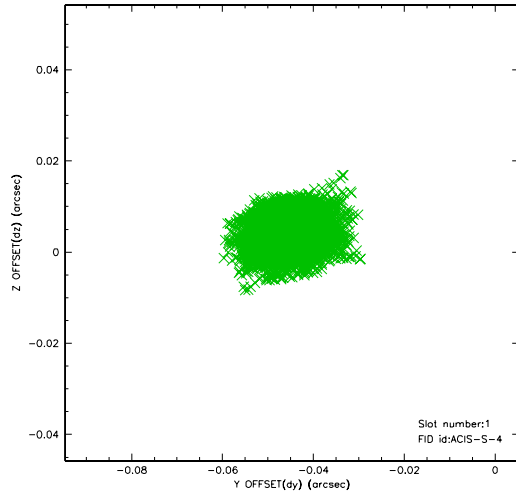


## 2.5 FID Slots

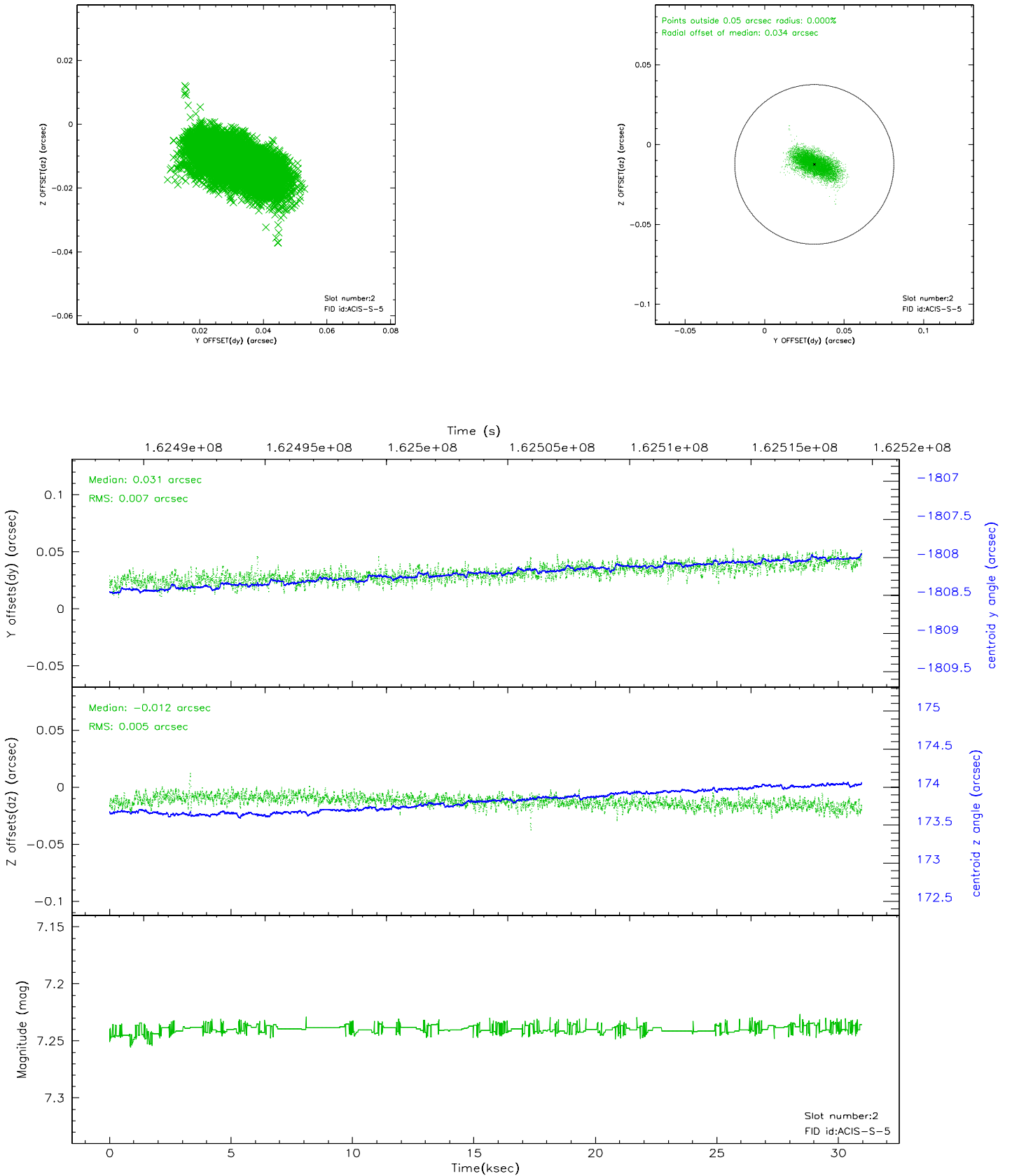
### 2.5.1 Slot 0



## 2.5.2 Slot 1

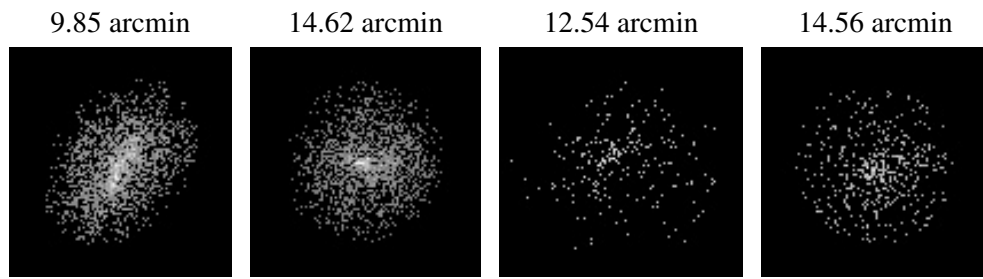


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.08.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.976

## A.2 Comments

Charge time for this ObsId remains at original value of 29.98 ks, although with the current processing the charge time would have been 30.01 ksec.

Preferred time constraint to achieve full overlap with HST observations was met.

Bias map for CCD chip 7 was inadvertently exposed to the image of Jupiter, raising the bias values at that position. The bias map was repaired by removing a square area, defined by X:240:345, Y:284:390, that includes most of the Jupiter image, then replacing the square area with appropriate pixel values modeled from another bias file. The exact location of the square area is described in the FITS header of the bias file. The original bias file is also available in the archive as version 1 of the bias file.