

# V&V Reference Report

## L2 ASCDS Version : 7.6.8.1

Observation 3034 - L2 Version 001  
Chandra X-Ray Center

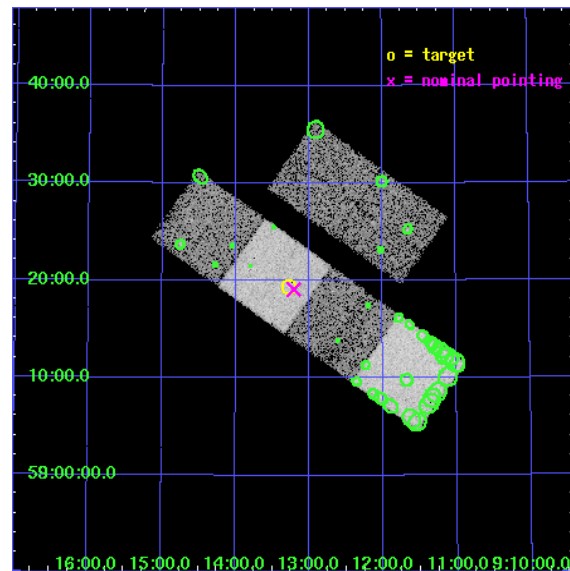
L2 Processing Date : Sep 6 2006

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# 1 Front

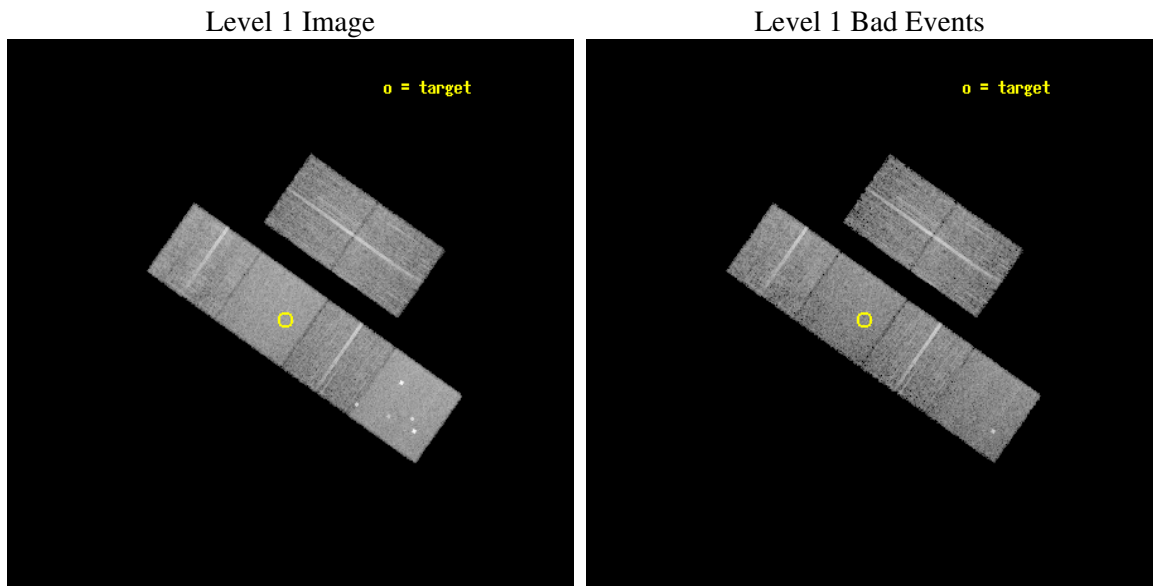
seq_num	700473
obs_id	3034
title	A CHANDRA AND XMM-NEWTON STUDY OF THE MOST DISTANT QUASARS: X-RAYING THE FIRST MASSIVE BLACK HOLES
observer	Prof. William Brandt
object	SDSS091316+591921
dtcycle	0
cycle	P
ra_targ	138.319167
dec_targ	59.322639
ra_nom	138.30194116675
dec_nom	59.318531070853
roll_nom	215.26456765812
revision	2
ontime	9958.4000092745
livetime	9832.3007521285
ontime2	9958.4000092745
ontime3	9958.4000092745
ontime5	9958.4000092745
ontime6	9958.4000092745
ontime7	9958.4000092745
ontime8	9958.4000092745
l2events	99929



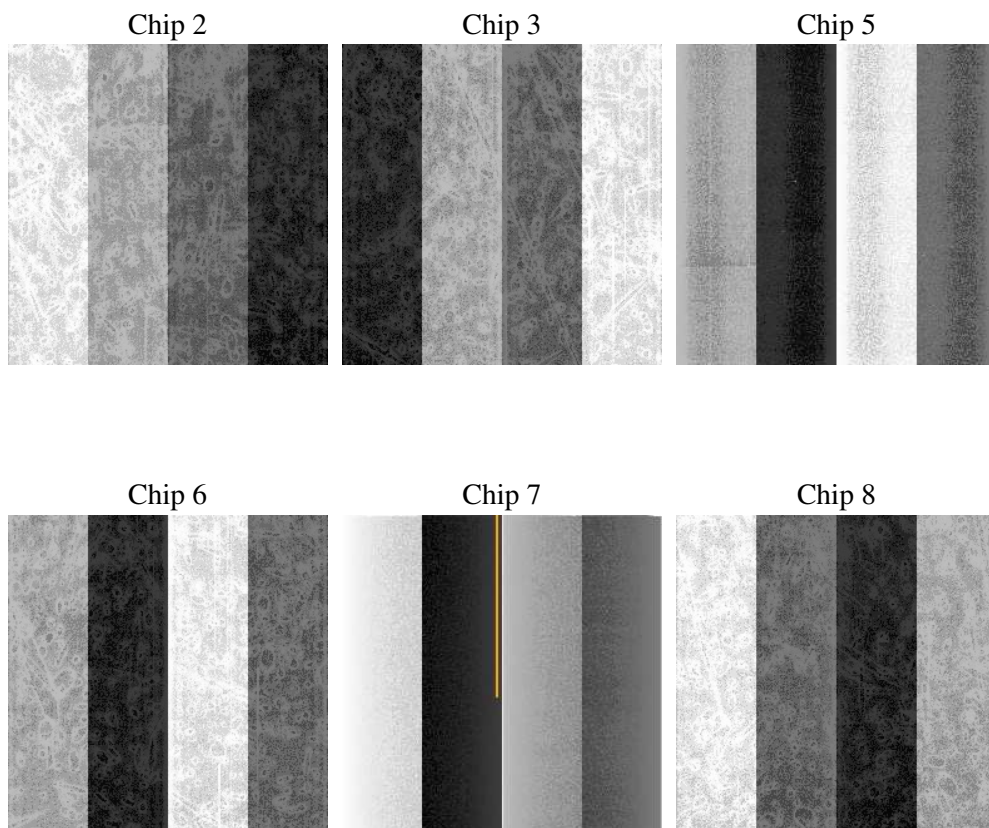
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.8.1
caldbver	3.2.3
date	2006-09-06T11:43:31
revision	2

sched_exp_time	10000.000000
ontime	9962.8401832283
ontime2	9962.8401832283
ontime3	9962.8401832283
ontime5	9962.8401832283
ontime6	9962.8401832283
ontime7	9962.8401832283
ontime8	9962.8401832283
l1events	475444

### 2.1.4 Events

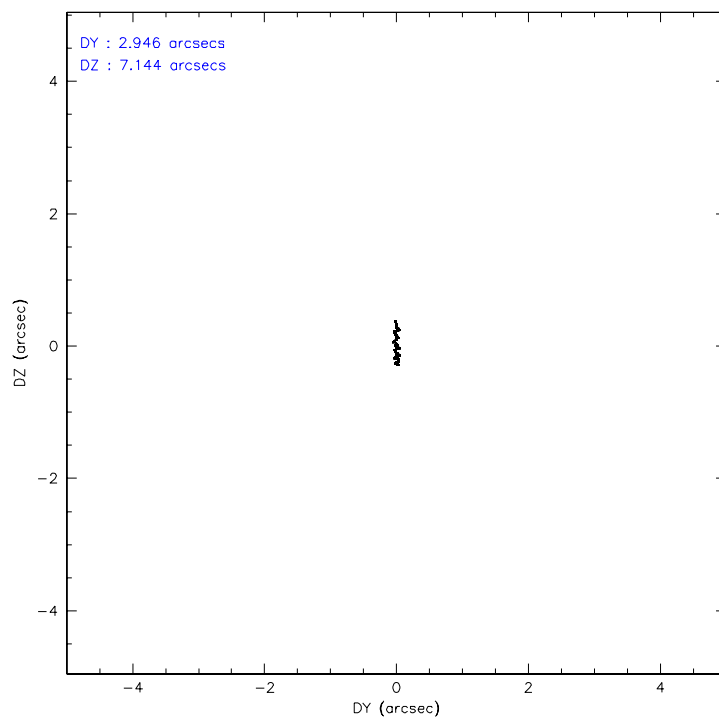
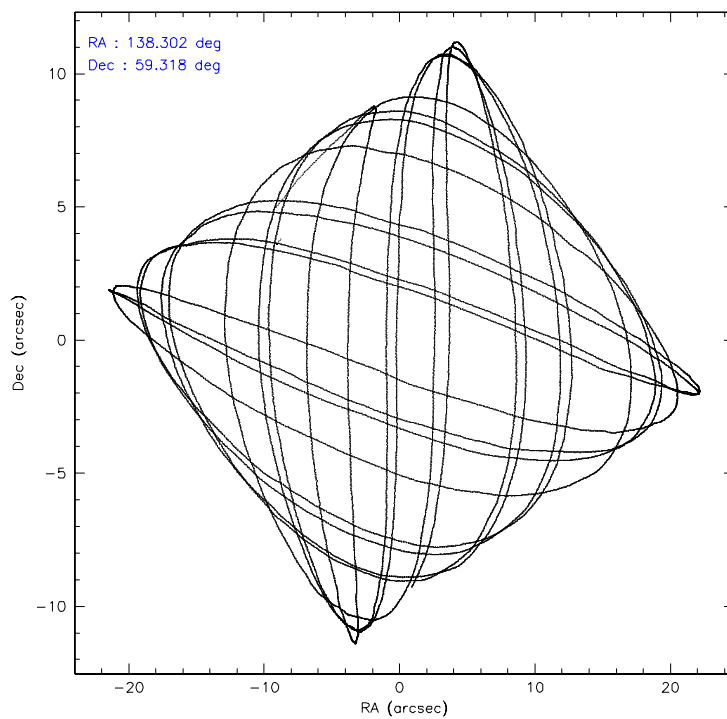
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	68094	65606	98961	68142	87923	86718
rejected events	60163	58121	54132	60244	54636	68600
rejected %	88%	88%	54%	88%	62%	79%

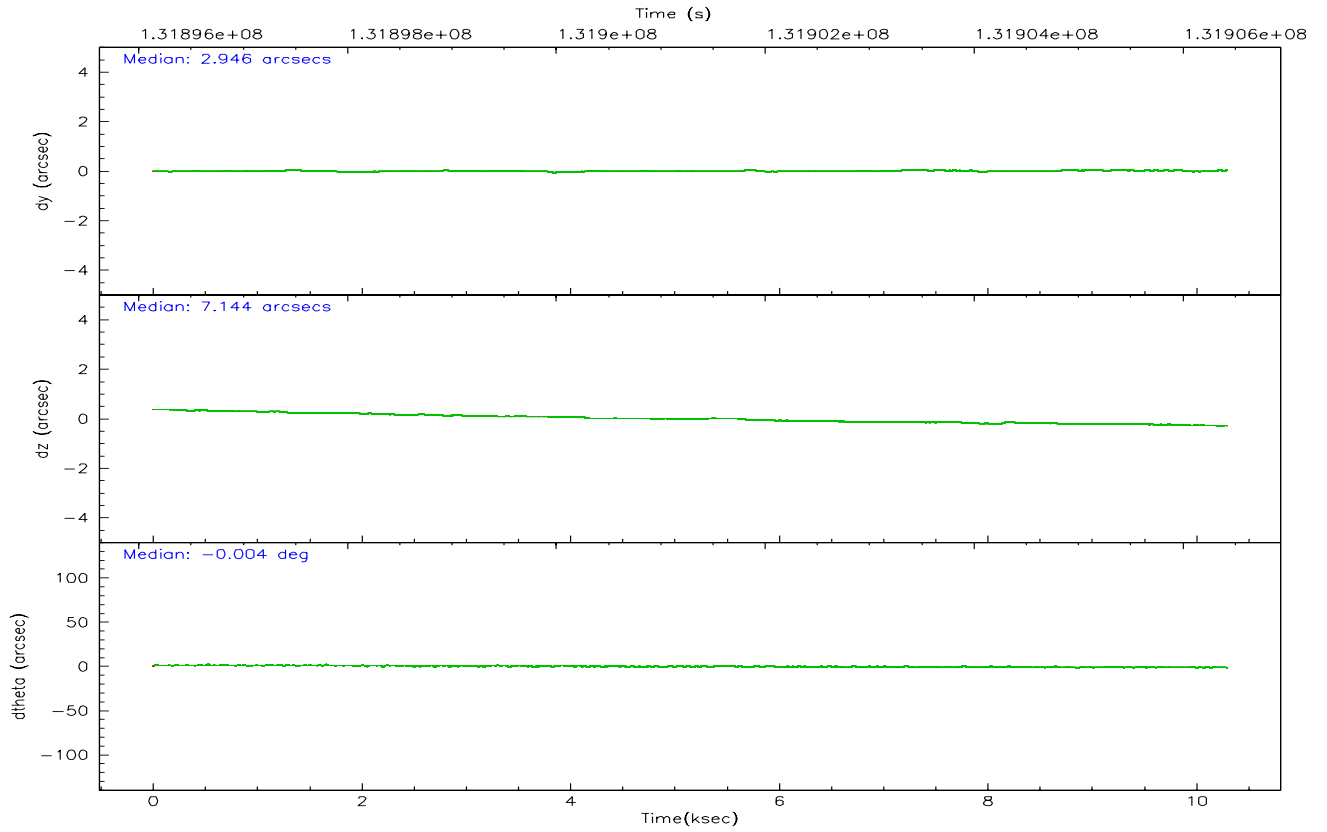
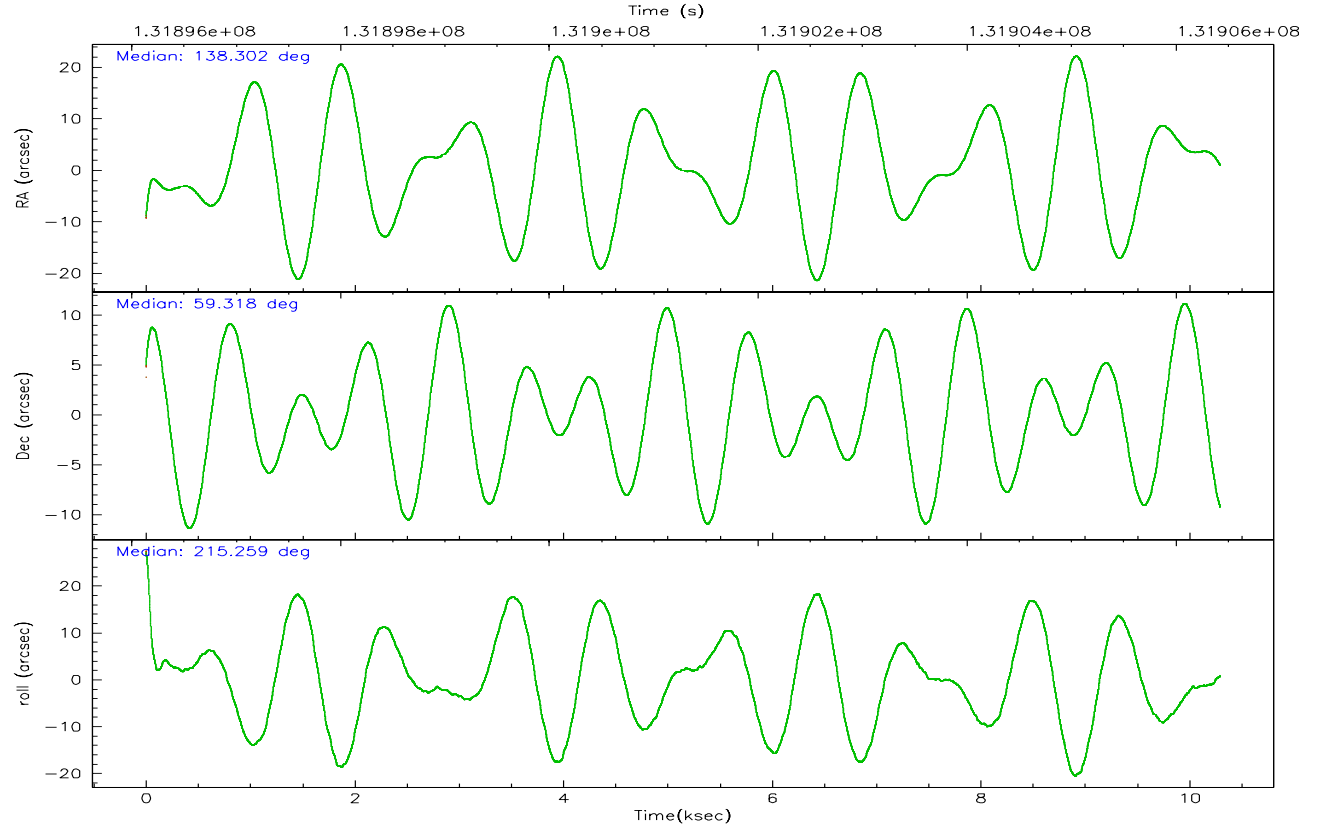
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	3332	3186	5384	3194	1905	5702
	4%	4%	5%	4%	2%	6%
grade 1 events	42	30	107	40	47	56
	0%	0%	0%	0%	0%	0%
grade 2 events	1776	1544	13264	1628	8270	3803
	2%	2%	13%	2%	9%	4%
grade 3 events	724	695	1077	705	1698	2032
	1%	1%	1%	1%	1%	2%
grade 4 events	709	712	960	759	1711	2010
	1%	1%	0%	1%	1%	2%
grade 5 events	2337	2597	4721	2729	5890	3701
	3%	3%	4%	4%	6%	4%
grade 6 events	1392	1348	24155	1613	19711	4580
	2%	2%	24%	2%	22%	5%
grade 7 events	57782	55494	49293	57474	48691	64834
	84%	84%	49%	84%	55%	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	138.323708	138.3019411667498	Alternating exposures requested	N	N
Pointing Dec	59.343404	59.3185310708532	Primary exposure time	0.000000	3.2
Pointing Roll	215.089193	215.2645676581178			
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	131896427.184000	131895404.20273			
Observation start date	2002-03-07T13:52:43	2002-03-07T13:36:44			
Observation end time	131906427.184000	131907126.6157			
Observation end date	2002-03-07T16:39:23	2002-03-07T16:52:06			
Read mode	TIMED	TIMED			

## 2.3 Aspect





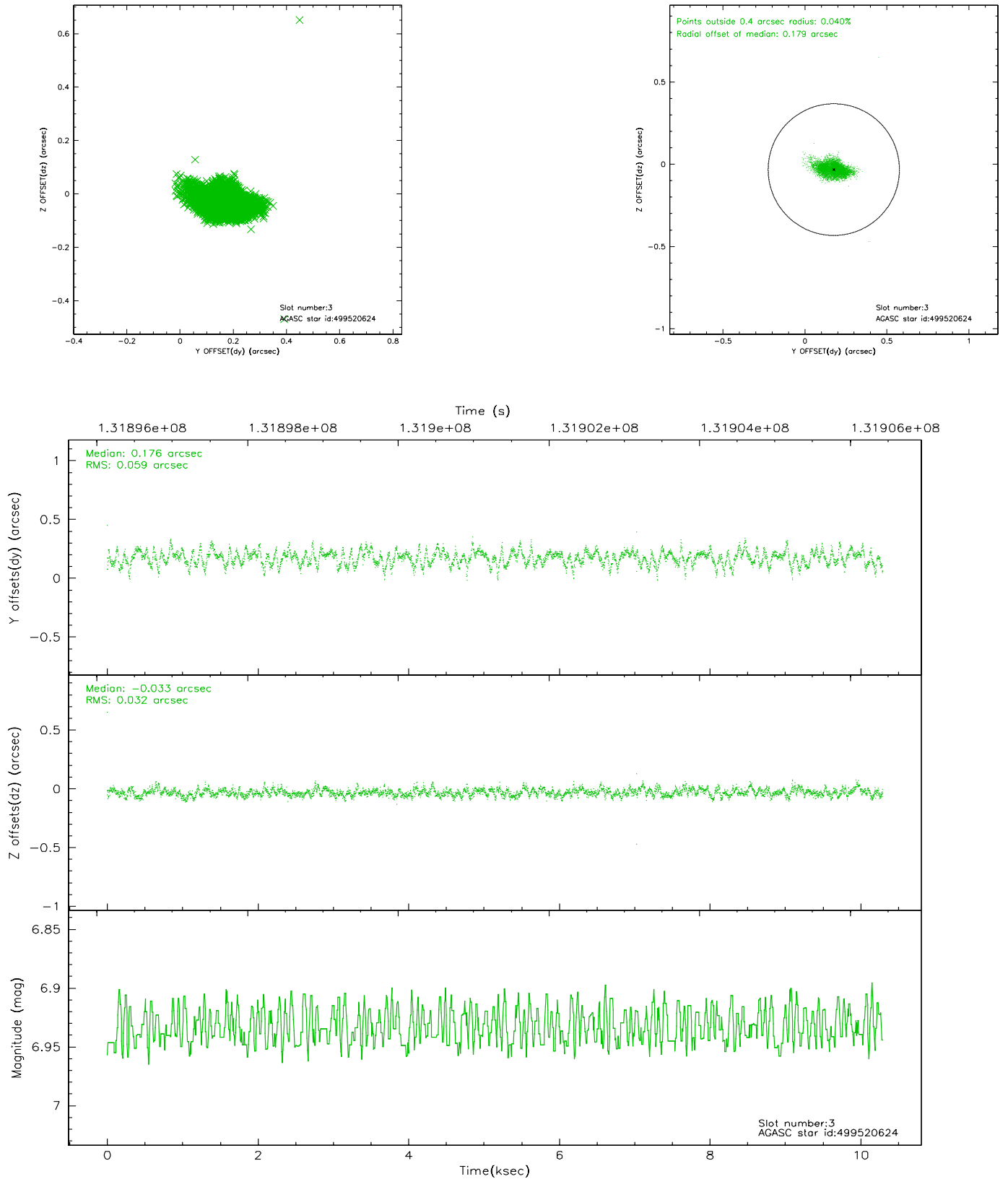
### Slot Statistics

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	2512	-0.001	0.029	0.008	0.013	0.000000	0.000000	-755.58	-1728.30
1	FID	ACIS-S-4	7.20	2511	-0.079	-0.007	0.006	0.010	0.000000	0.000000	2157.38	179.63
2	FID	ACIS-S-5	7.24	2511	0.049	-0.013	0.007	0.012	0.000000	0.000000	-1807.72	173.87
3	GUIDE	499520624	6.93	5021	0.176	-0.033	0.068	0.119	136.679758	59.344523	2444.82	-1768.45
4	GUIDE	499518480	6.99	5023	-0.022	0.105	0.052	0.084	137.455932	59.153876	1696.93	-371.60
5	GUIDE	499656312	7.47	5023	-0.060	0.044	0.054	0.087	138.115396	58.711541	1625.37	1636.73
6	GUIDE	499527056	8.52	5022	0.200	-0.070	0.056	0.091	137.606081	59.254645	1260.07	-503.54
7	GUIDE	541995512	9.38	5020	-0.290	-0.043	0.097	0.154	138.539479	60.198666	-2086.68	-2298.68

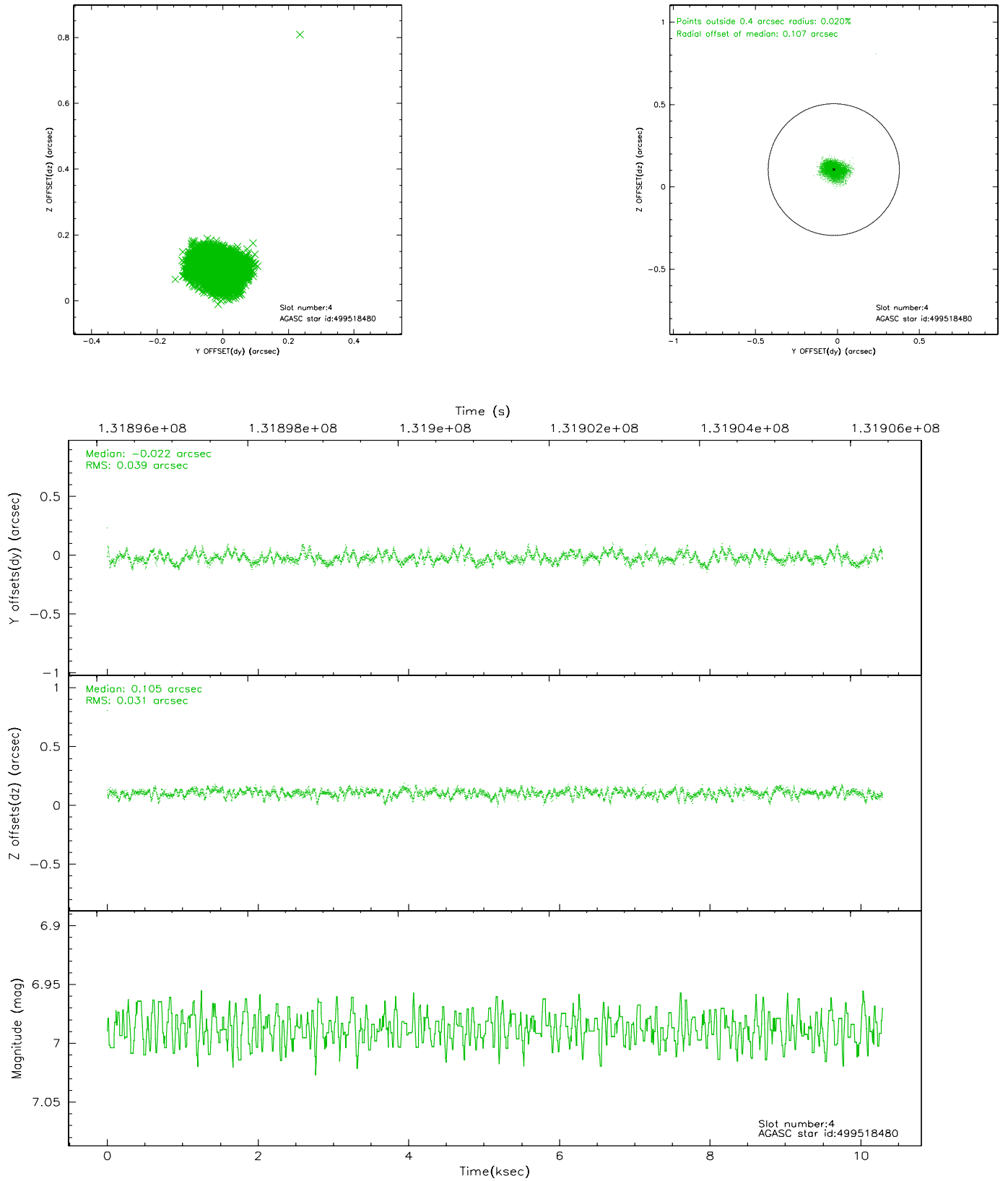


## 2.4 Star Slots

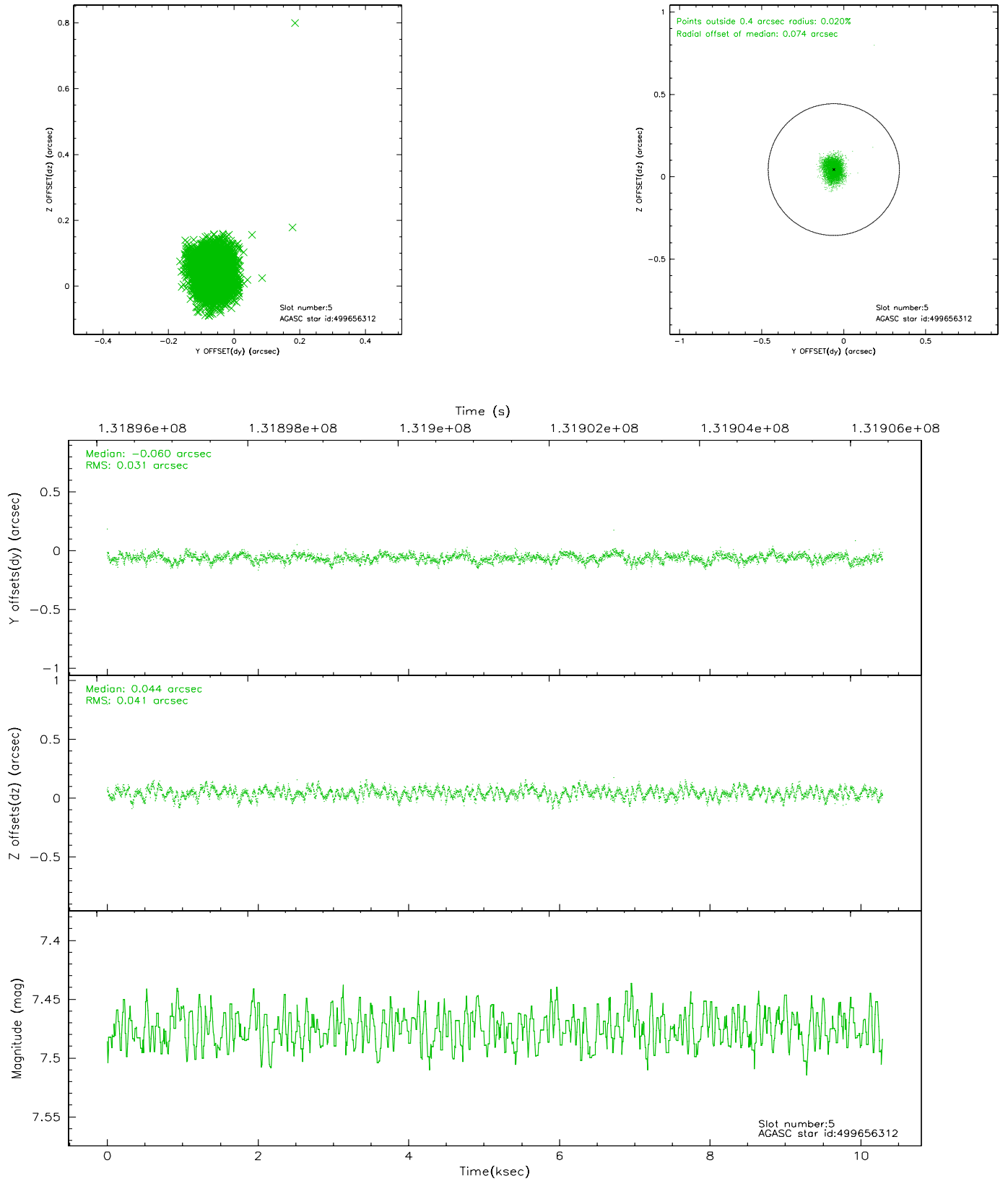
### 2.4.1 Slot 3



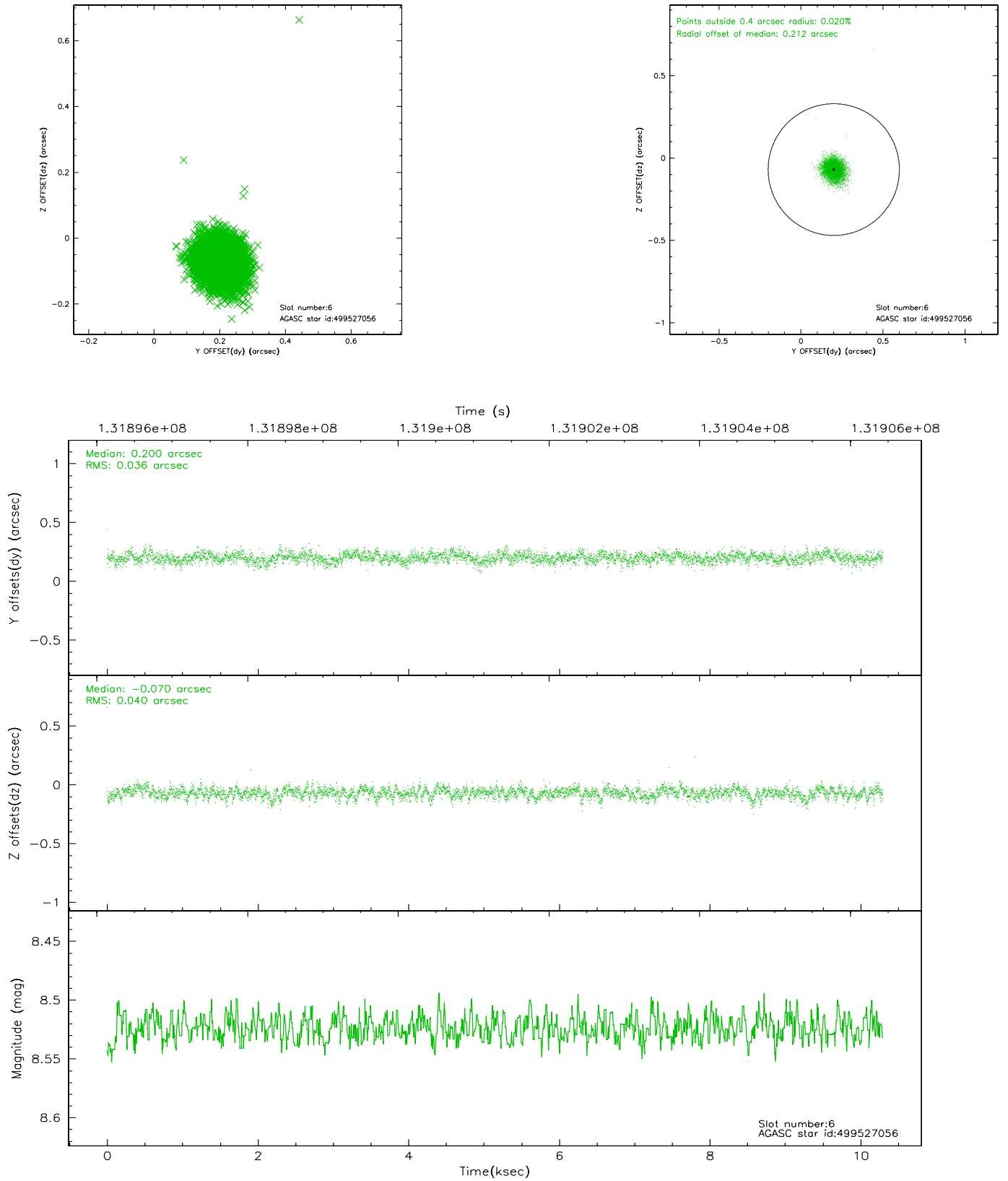
## 2.4.2 Slot 4



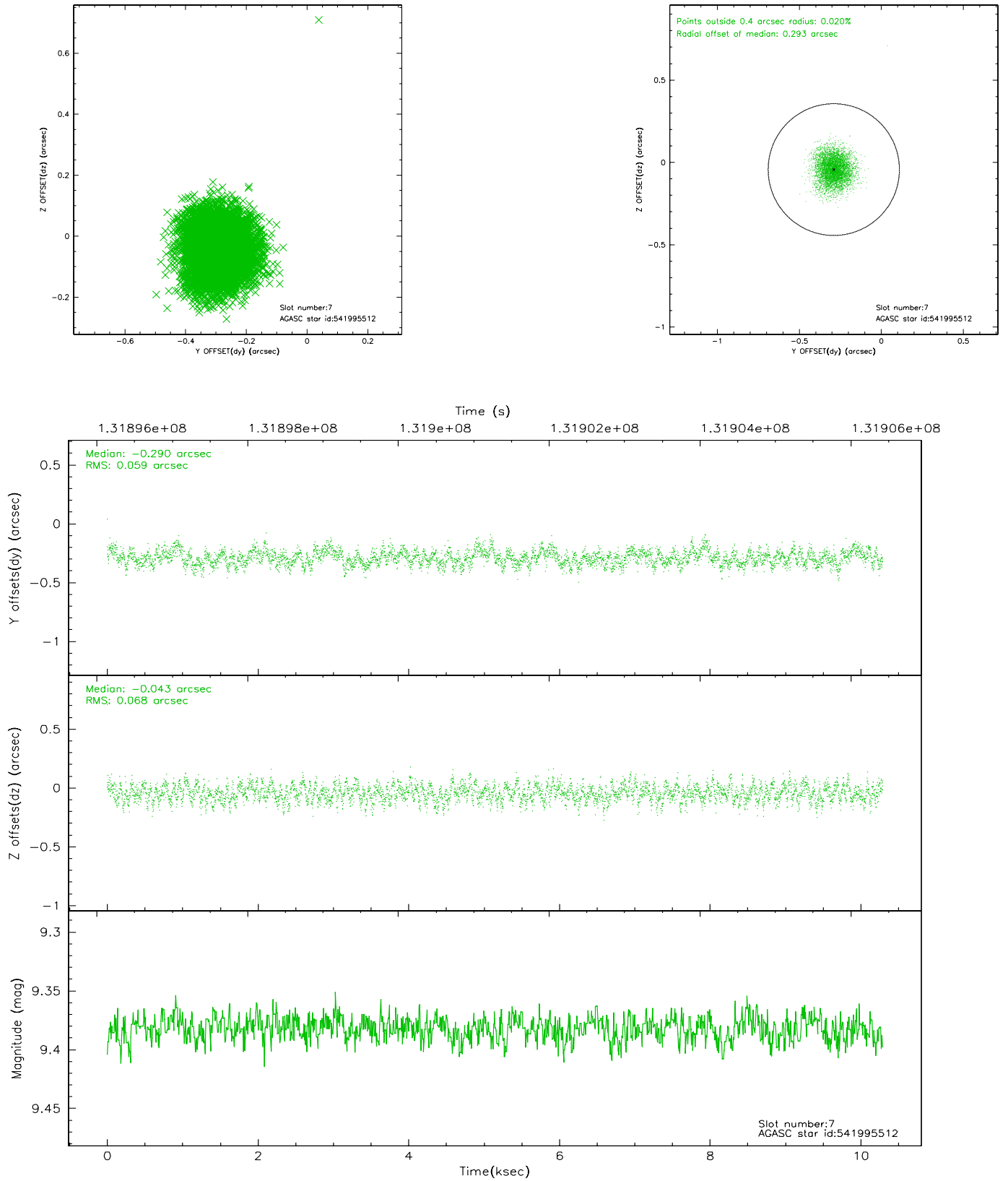
### 2.4.3 Slot 5



## 2.4.4 Slot 6

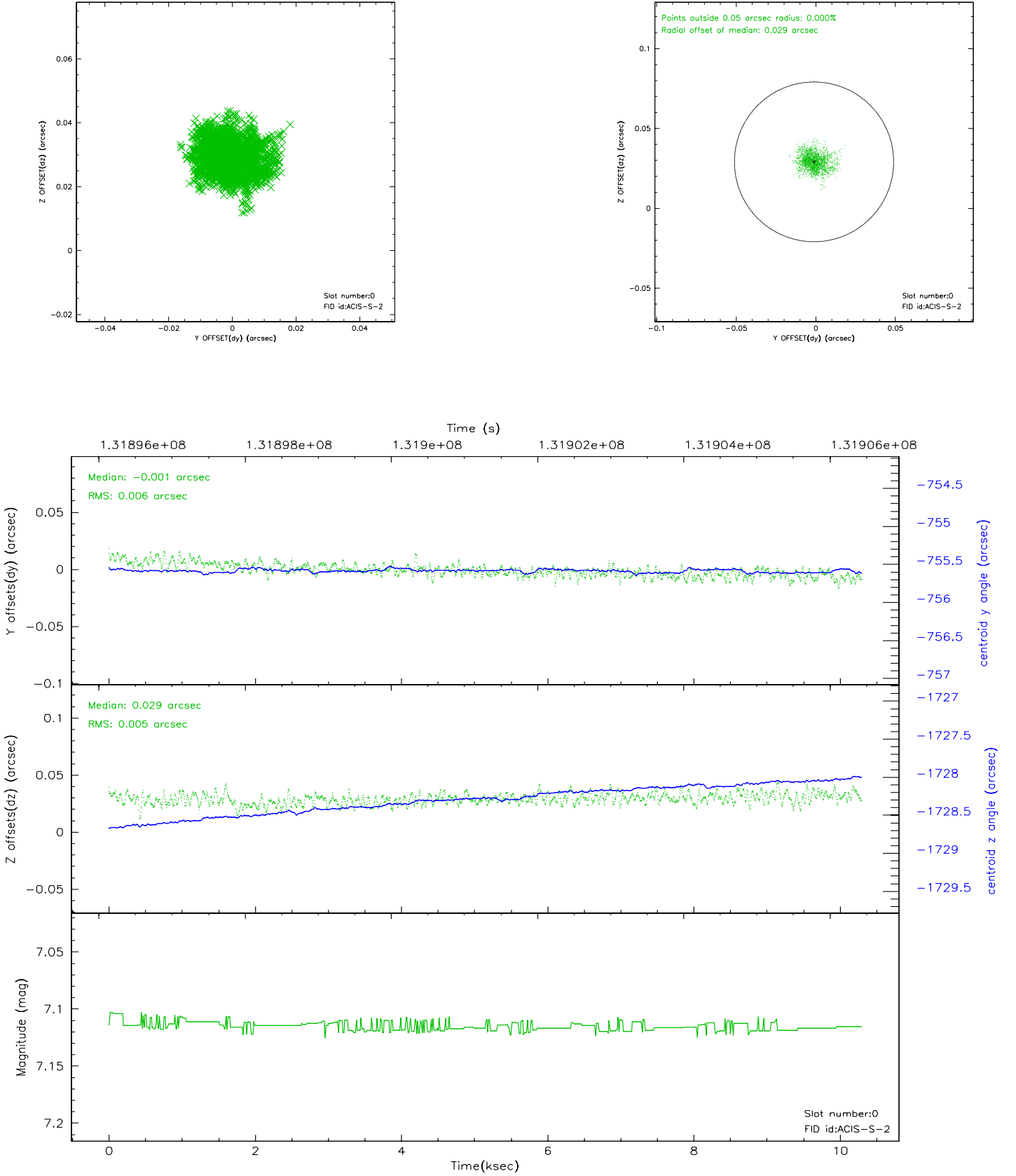


## 2.4.5 Slot 7

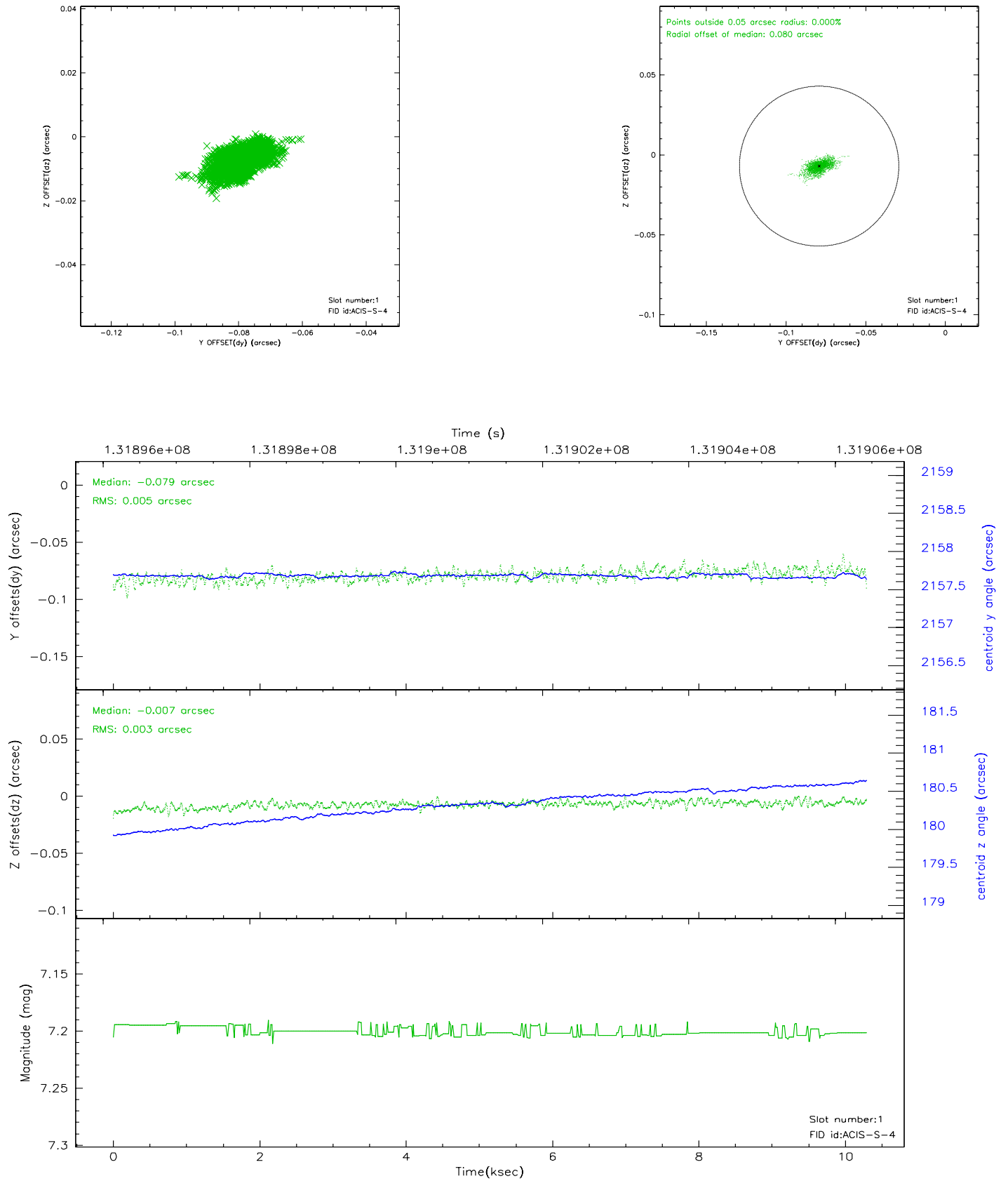


## 2.5 FID Slots

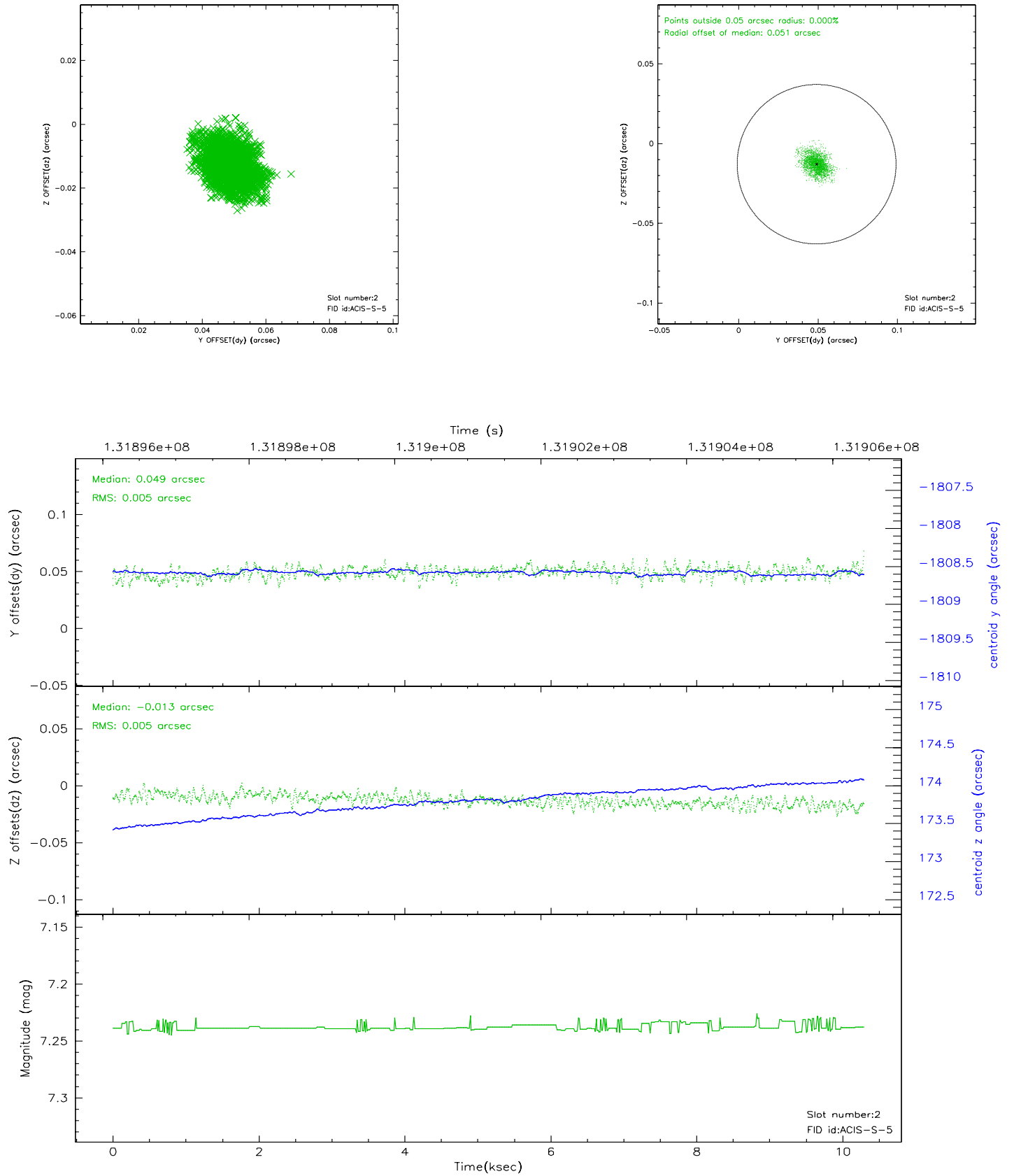
### 2.5.1 Slot 0



## 2.5.2 Slot 1

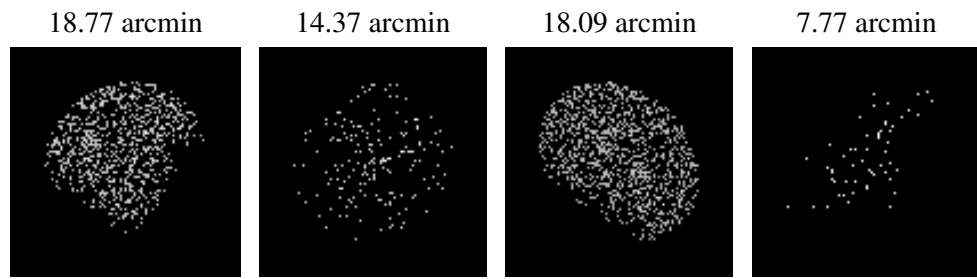


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2006.09.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	9.961

### A.2 Comments