

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3963 - L2 Version 001  
Chandra X-Ray Center

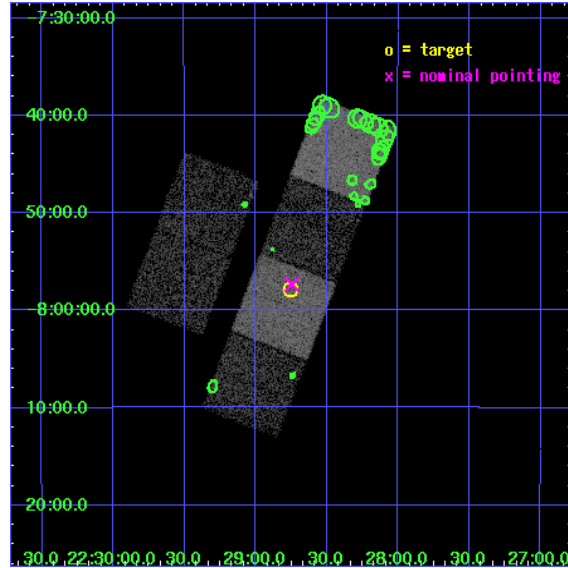
L2 Processing Date : Aug 1 2006

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# 1 Front

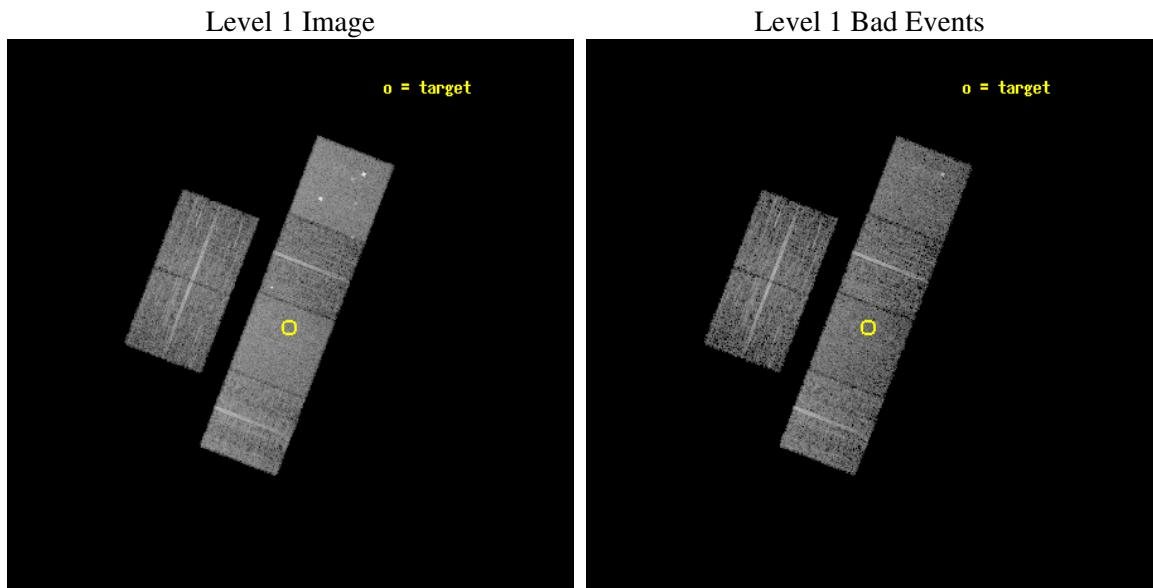
seq_num	700642
obs_id	3963
title	A CHANDRA AND XMM-NEWTON STUDY OF THE MOST DISTANT QUASARS: X-RAYING THE FIRST MASSIVE BLACK HOLES
observer	Prof. William Brandt
object	SDSS J222845-075755
dtcycle	0
cycle	P
ra_targ	337.188333
dec_targ	-7.965361
ra_nom	337.18647177571
dec_nom	-7.9558766075976
roll_nom	111.04682191783
revision	2
ontime	7126.3999734521
livetime	7036.1612059853
ontime2	7126.3999734521
ontime3	7126.3999734521
ontime5	7126.3999734521
ontime6	7126.3999734521
ontime7	7126.3999734521
ontime8	7126.3999734521
l2events	66437



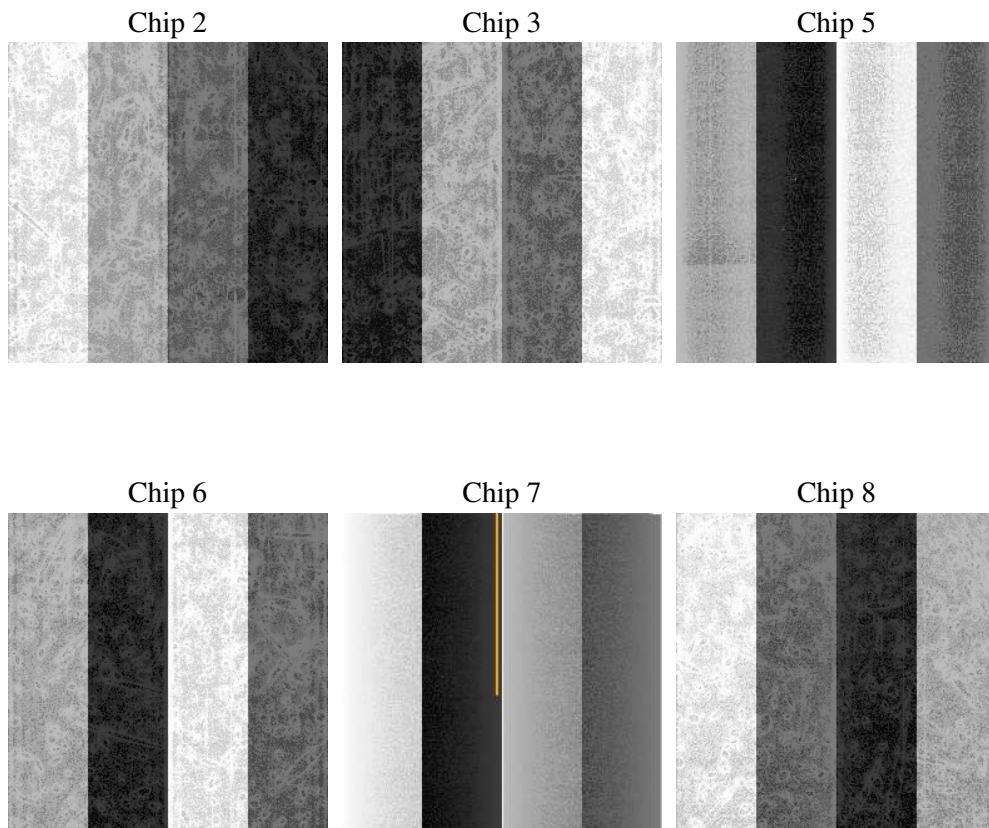
## 2 OBI

### 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	2006-08-01T09:11:18
revision	2

sched_exp_time	7000.000000
ontime	7373.280751735
ontime2	7373.280751735
ontime3	7373.280751735
ontime5	7373.280751735
ontime6	7373.280751735
ontime7	7373.280751735
ontime8	7373.280751735
l1events	319276

### 2.1.4 Events

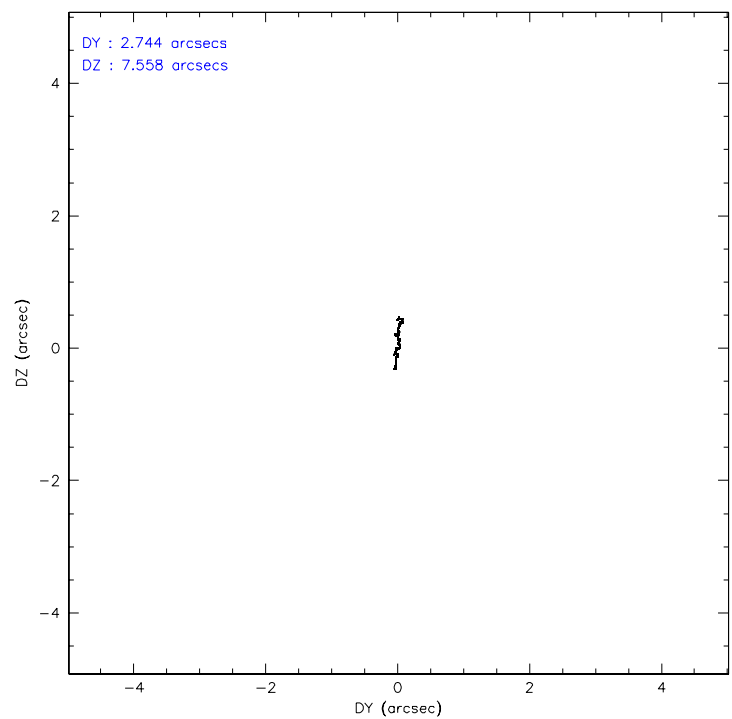
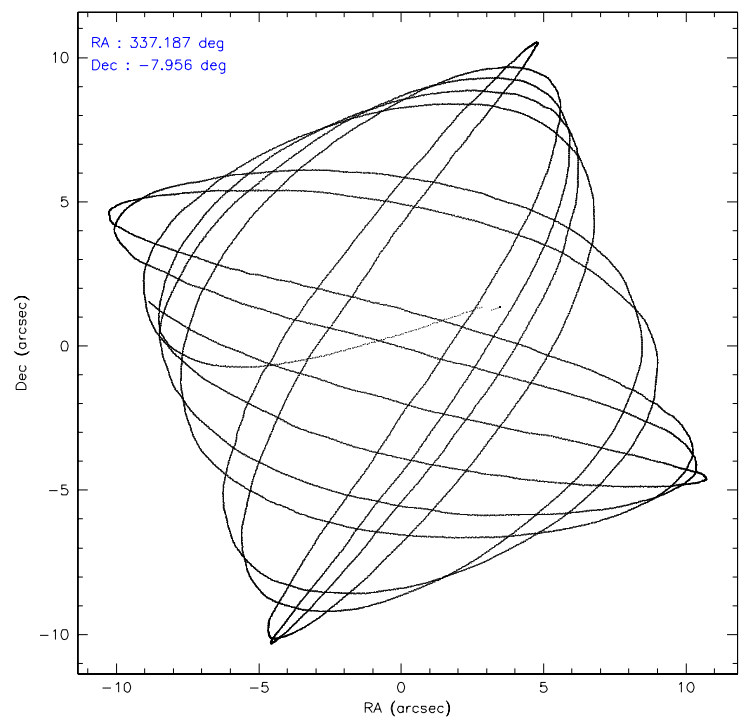
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	44804	42734	67773	45449	60159	58357
rejected events	39626	37683	38479	39682	38237	46812
rejected %	88%	88%	56%	87%	63%	80%

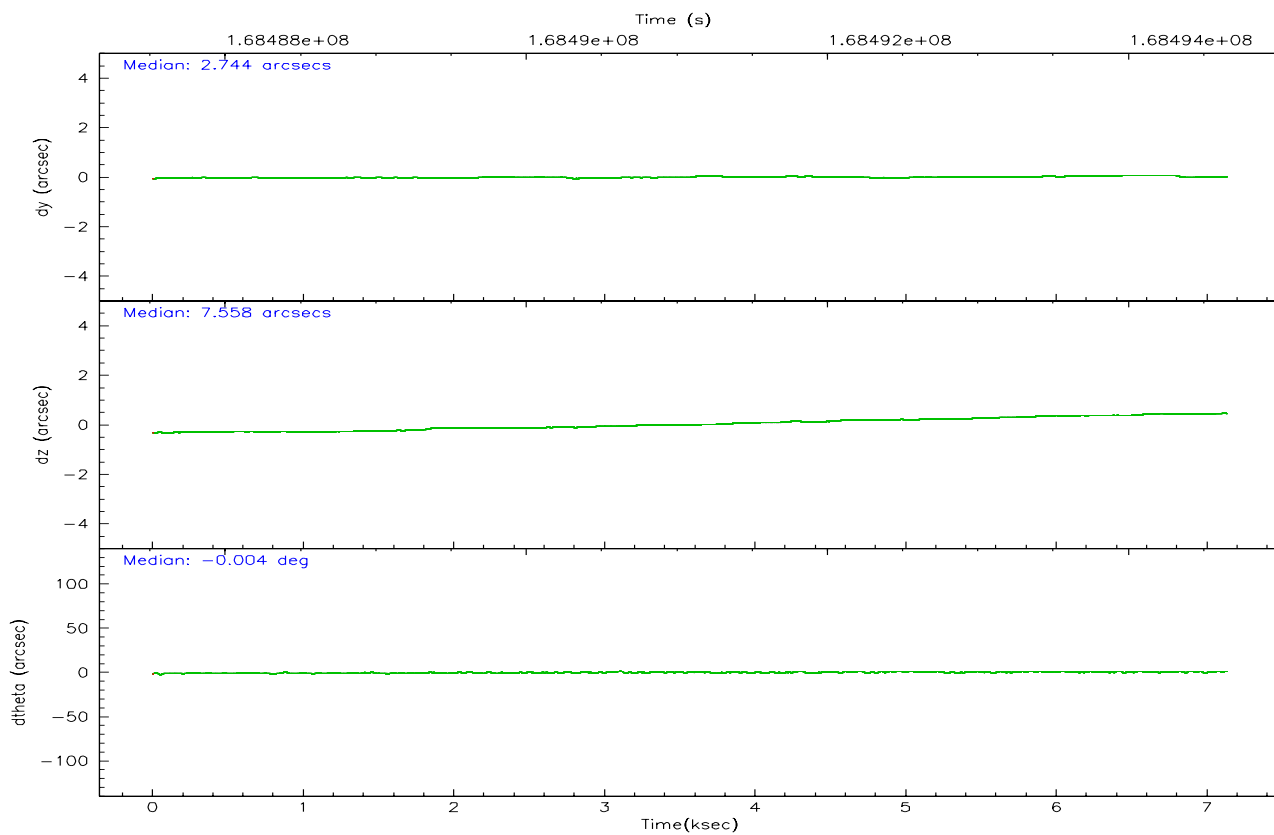
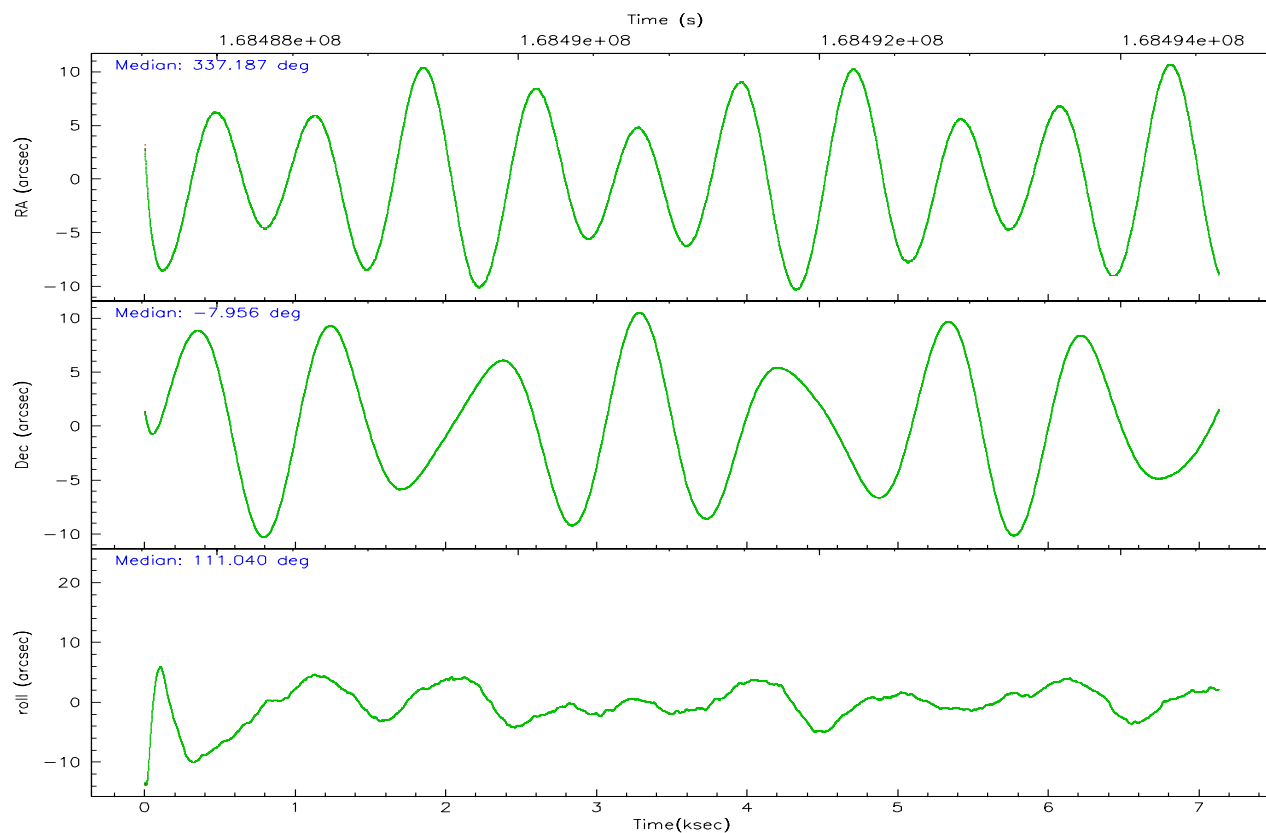
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	2436	2264	3477	2644	1331	3906
	5%	5%	5%	5%	2%	6%
grade 1 events	25	25	58	19	41	34
	0%	0%	0%	0%	0%	0%
grade 2 events	1078	988	9096	1158	5488	2529
	2%	2%	13%	2%	9%	4%
grade 3 events	481	510	648	577	1139	1342
	1%	1%	0%	1%	1%	2%
grade 4 events	493	480	627	545	1077	1197
	1%	1%	0%	1%	1%	2%
grade 5 events	1818	1967	3212	2041	3892	2750
	4%	4%	4%	4%	6%	4%
grade 6 events	858	980	16461	1045	13642	3023
	1%	2%	24%	2%	22%	5%
grade 7 events	37615	35520	34194	37420	33549	43576
	83%	83%	50%	82%	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	337.208093	337.186471775707	Alternating exposures requested	N	N
Pointing Dec	-7.972693	-7.955876607597625	Primary exposure time	0.000000	3.2
Pointing Roll	110.893235	111.046821917834			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	168487655.184000	168486490.19325			
Observation start date	2003-05-05T02:06:31	2003-05-05T01:48:10			
Observation end time	168494655.184000	168495581.94363			
Observation end date	2003-05-05T04:03:11	2003-05-05T04:19:41			
Read mode	TIMED	TIMED			

## 2.3 Aspect





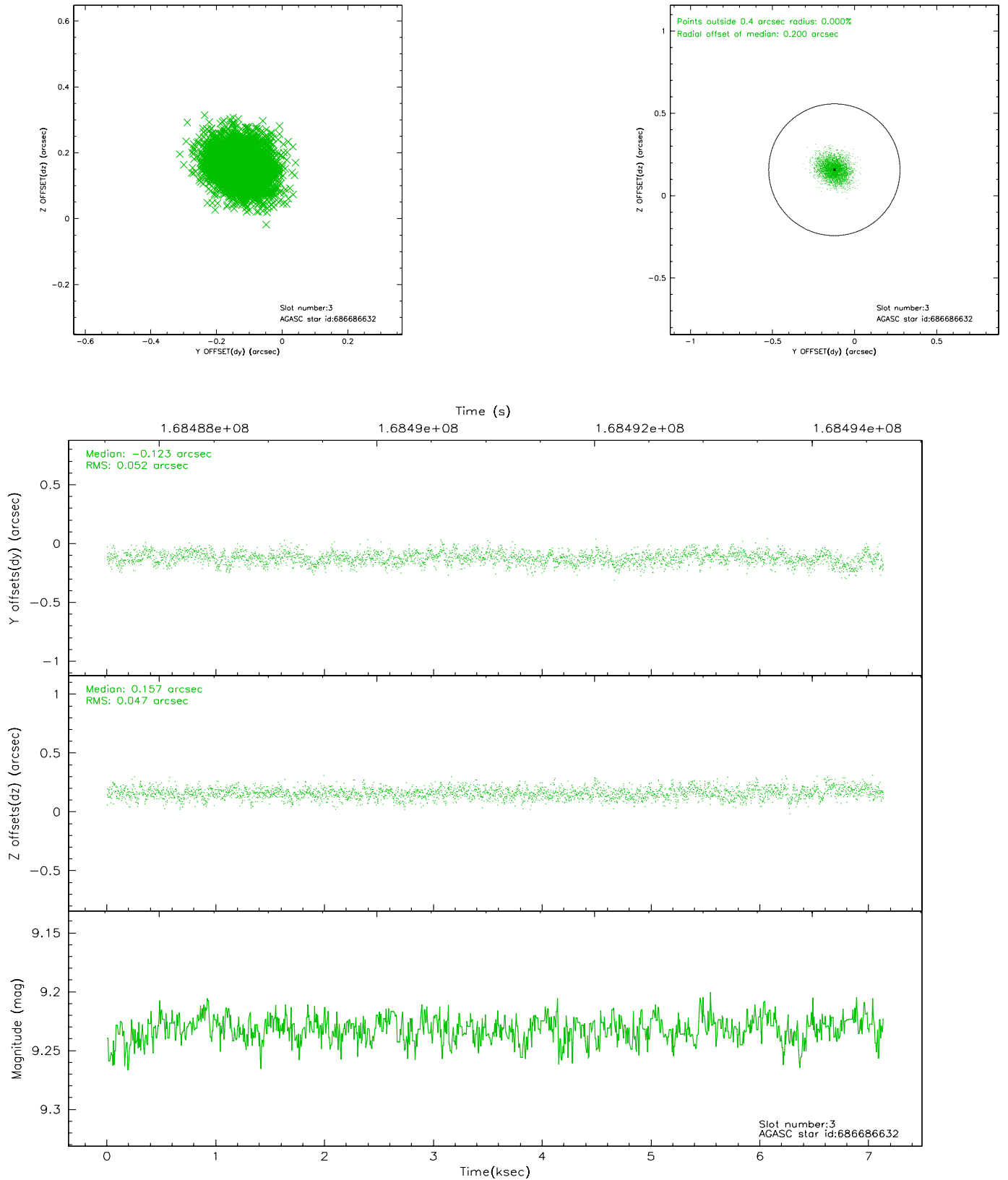
### Slot Statistics

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	1740	-0.012	0.011	0.008	0.012	0.000000	0.000000	-755.39	-1728.71
1	FID	ACIS-S-4	7.20	1740	-0.038	0.003	0.005	0.009	0.000000	0.000000	2157.50	178.93
2	FID	ACIS-S-5	7.24	1740	0.019	-0.005	0.007	0.012	0.000000	0.000000	-1807.16	173.51
3	GUIDE	686686632	9.23	3478	-0.123	0.157	0.075	0.121	337.506926	-7.400375	1544.30	-1730.92
4	GUIDE	760750520	9.84	3478	-0.159	-0.186	0.099	0.163	336.433014	-7.727895	1807.27	2269.49
5	GUIDE	760751888	8.81	3480	0.113	-0.165	0.070	0.117	336.919617	-8.232937	-508.41	1295.13
6	GUIDE	761661840	8.43	3476	0.200	0.043	0.094	0.155	337.482812	-8.418958	-1849.87	-340.41
7	GUIDE	761668240	9.51	3476	-0.023	0.149	0.099	0.157	337.634705	-7.720530	304.47	-1745.06

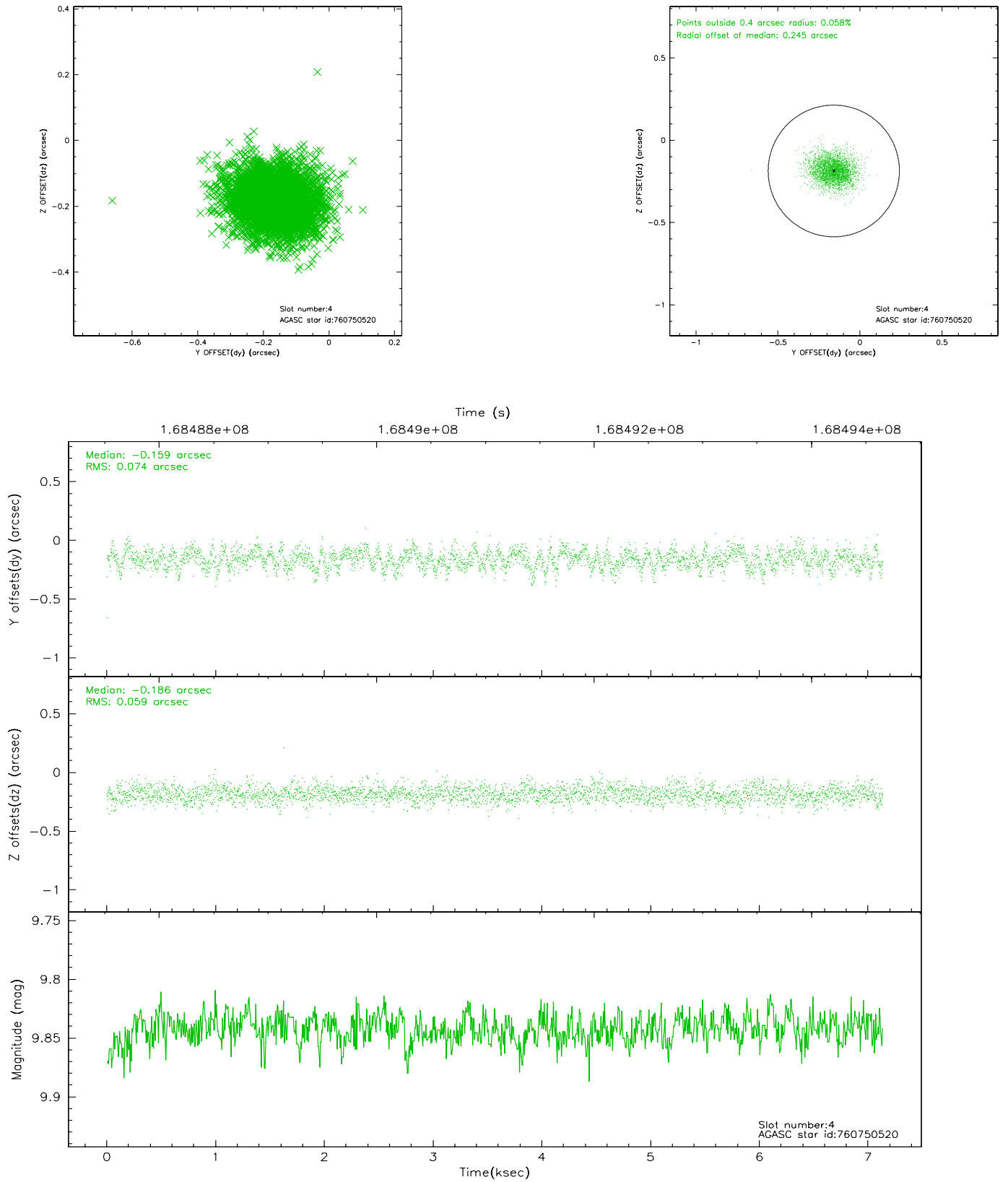


## 2.4 Star Slots

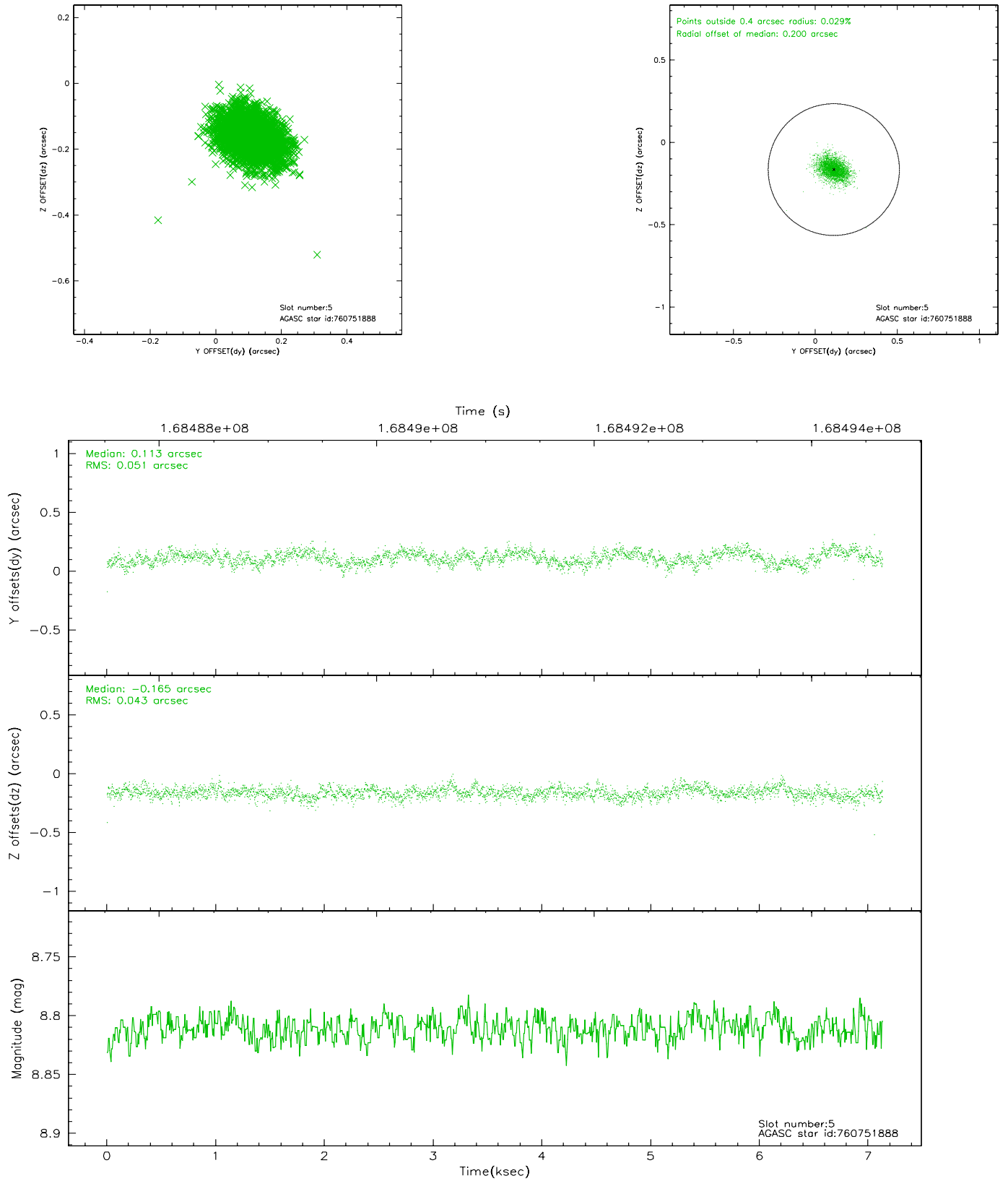
### 2.4.1 Slot 3



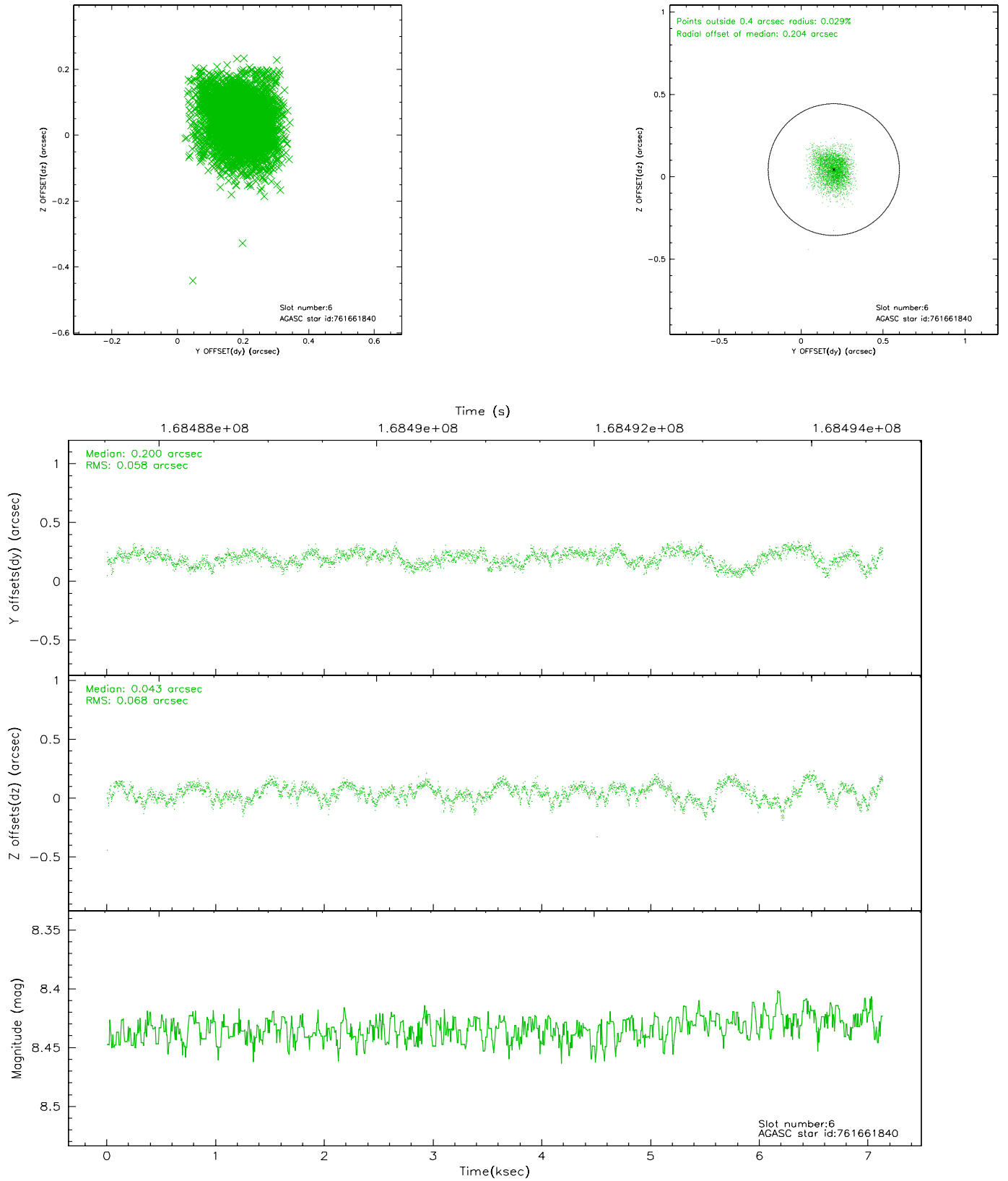
## 2.4.2 Slot 4



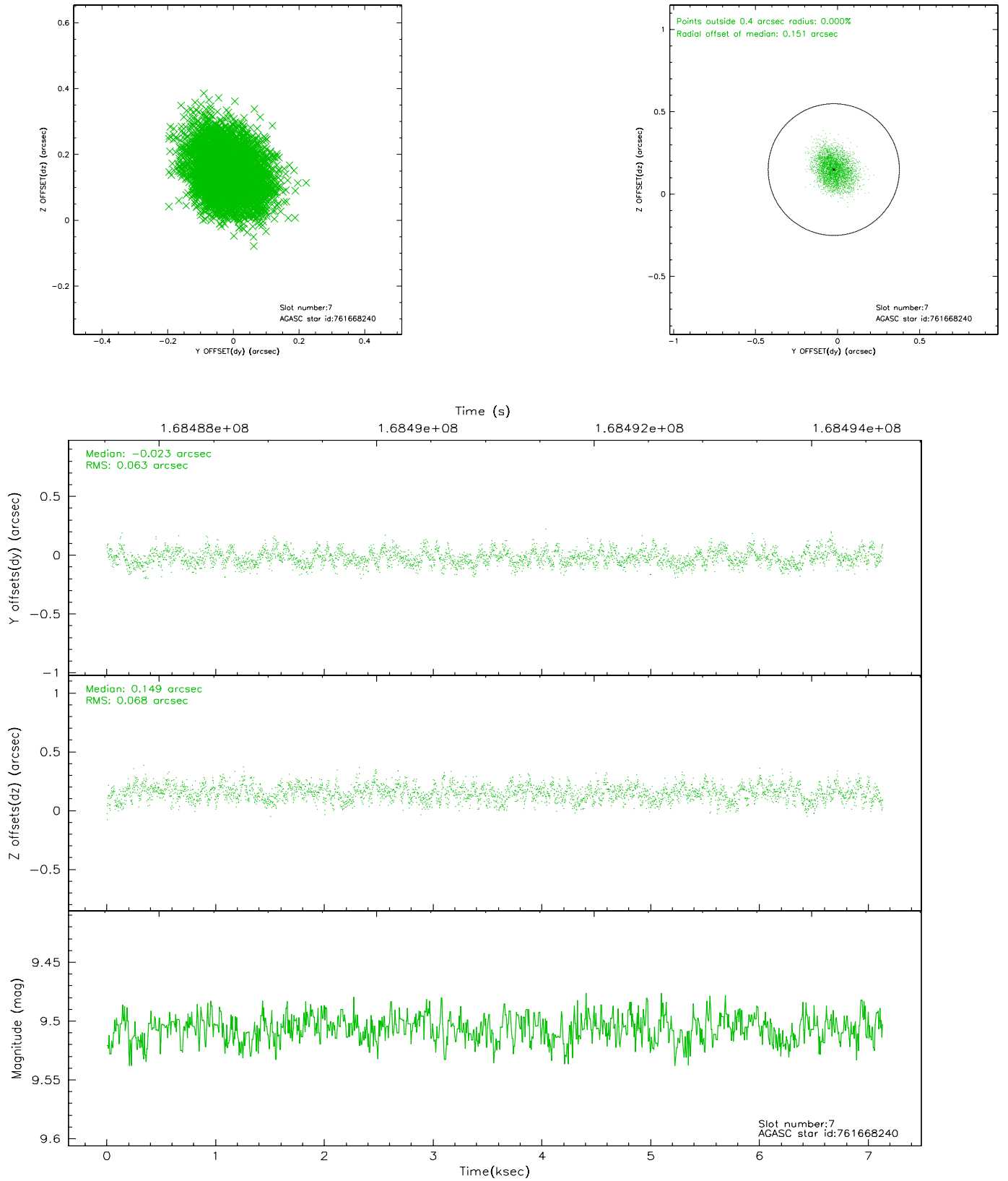
### 2.4.3 Slot 5



## 2.4.4 Slot 6

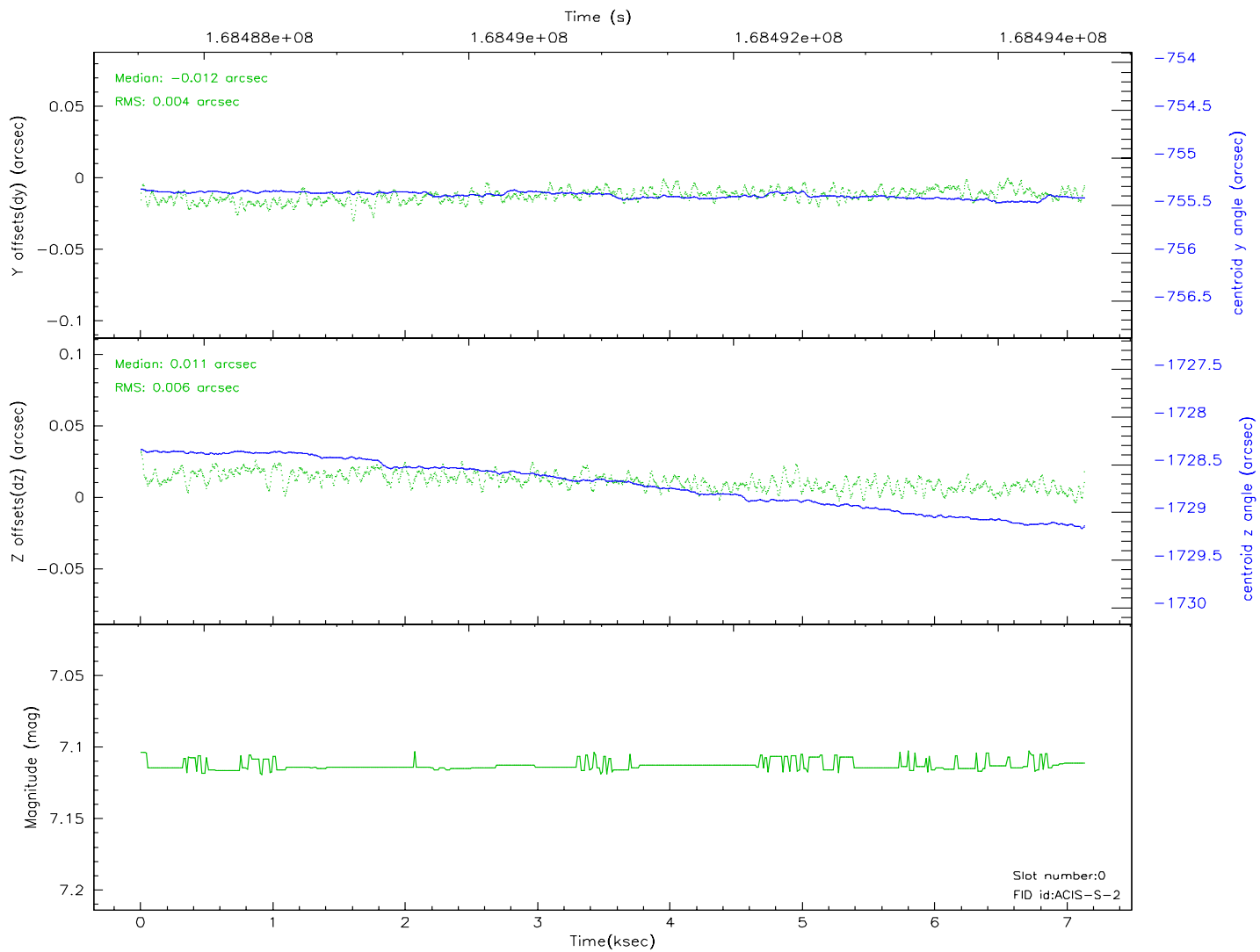
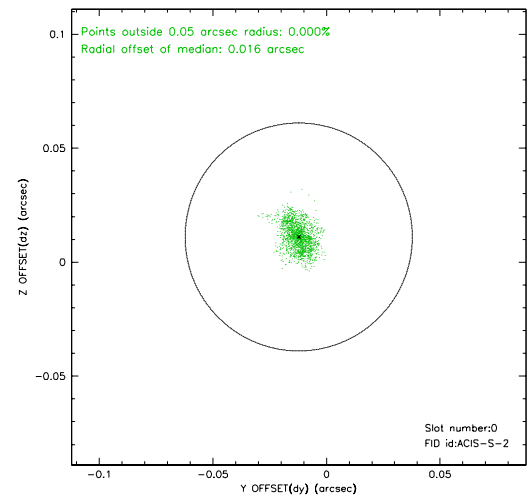
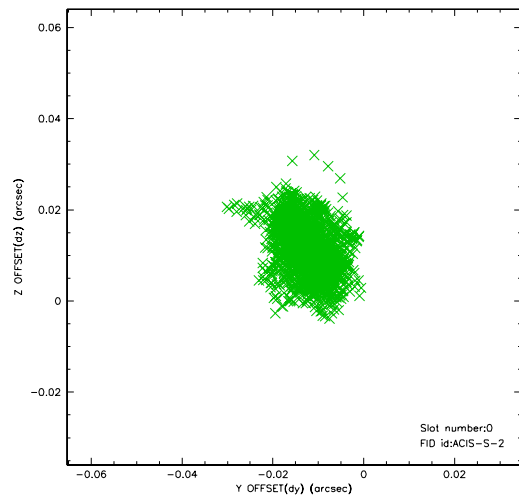


## 2.4.5 Slot 7

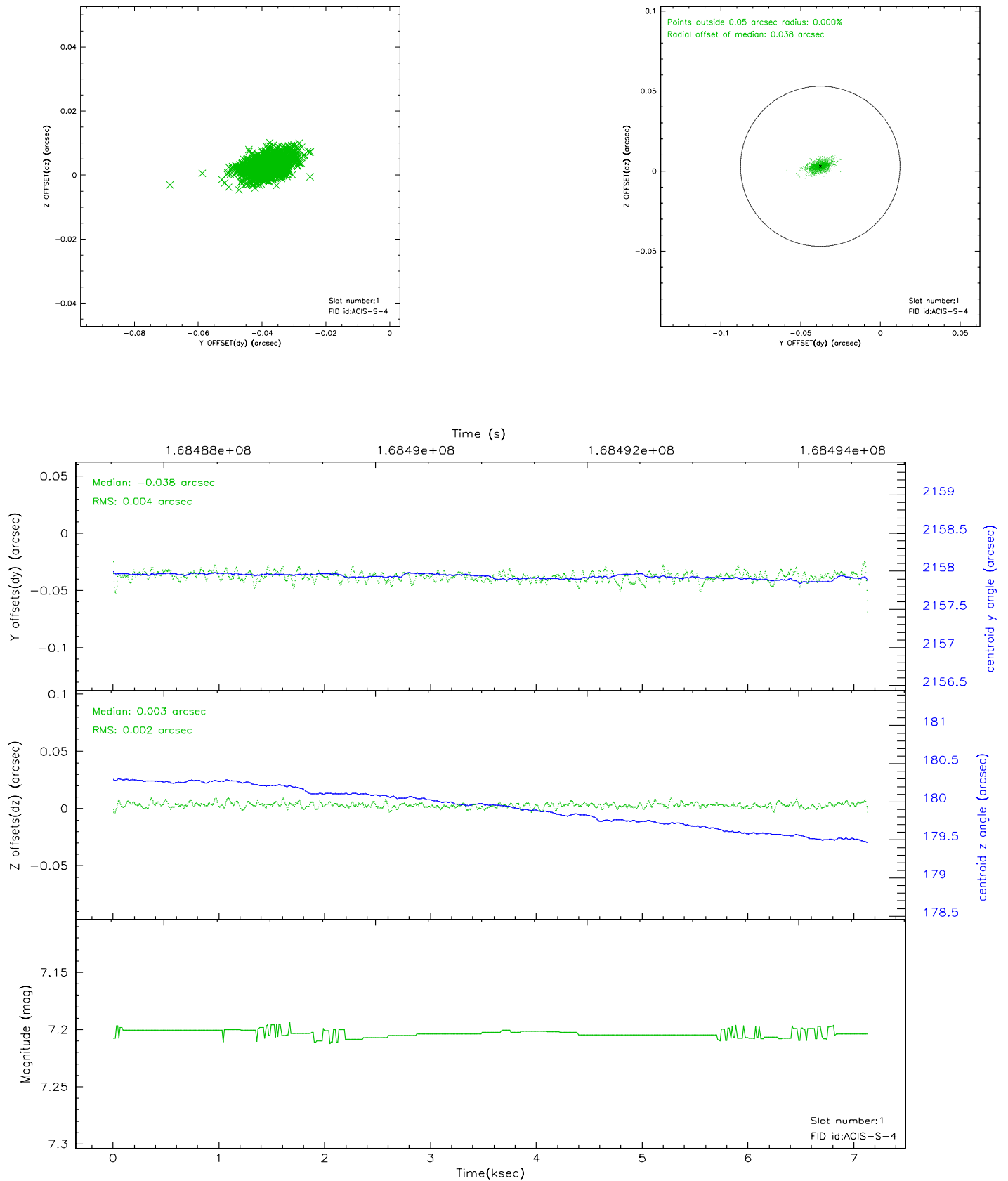


## 2.5 FID Slots

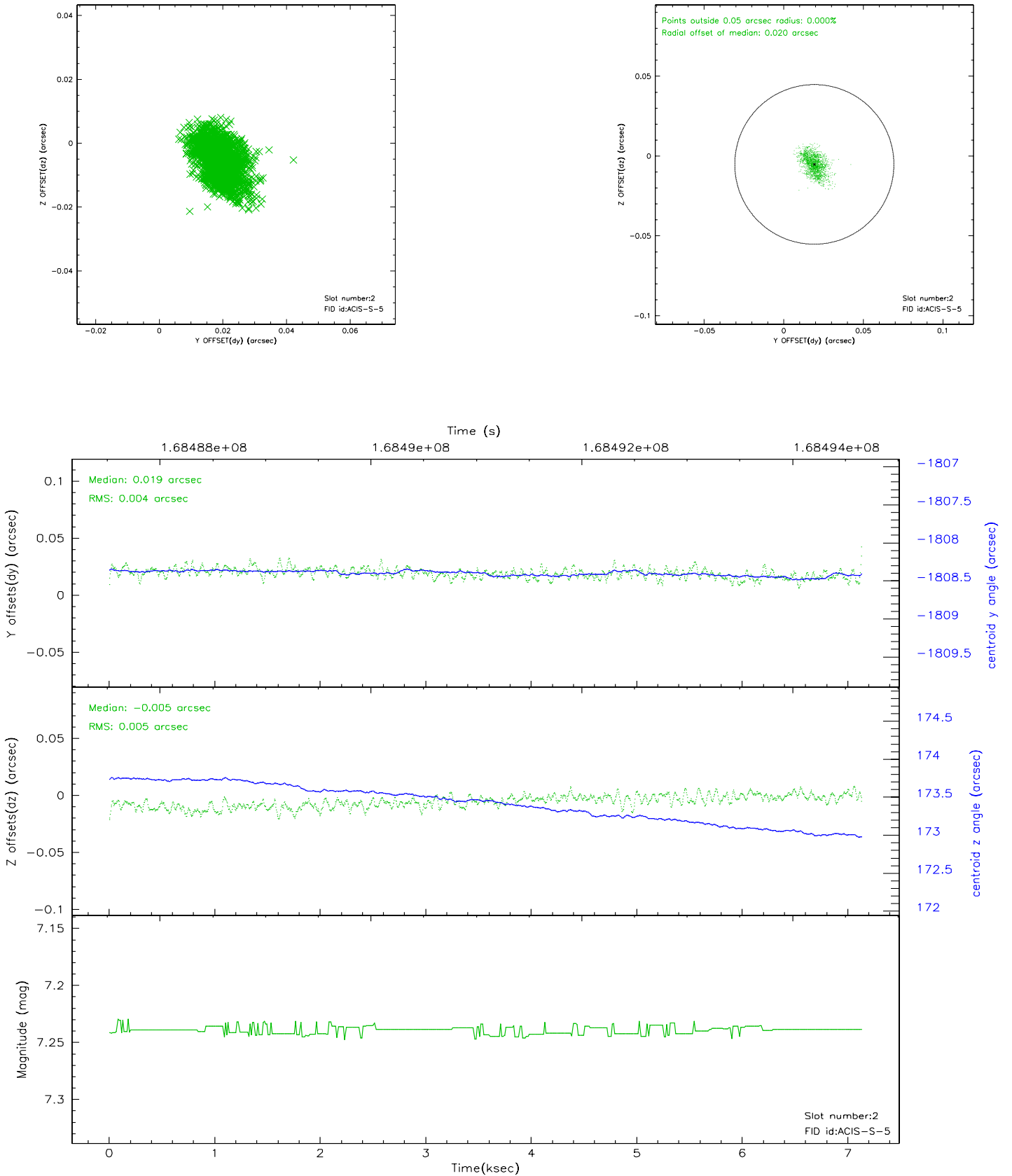
### 2.5.1 Slot 0



## 2.5.2 Slot 1

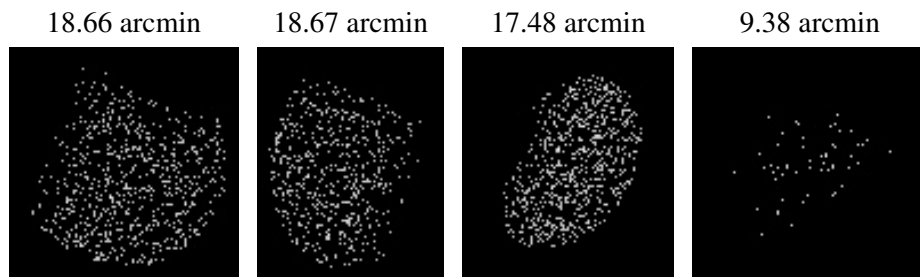


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.08.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.126

### A.2 Comments