

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 3760 - L2 Version 001  
Chandra X-Ray Center

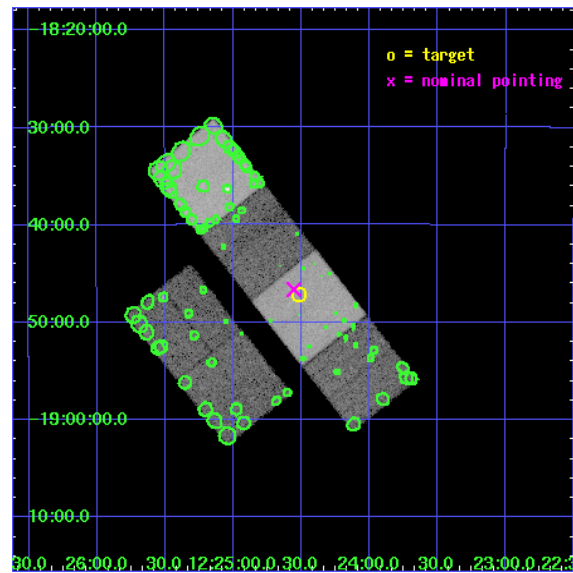
L2 Processing Date : Jul 27 2006

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# 1 Front

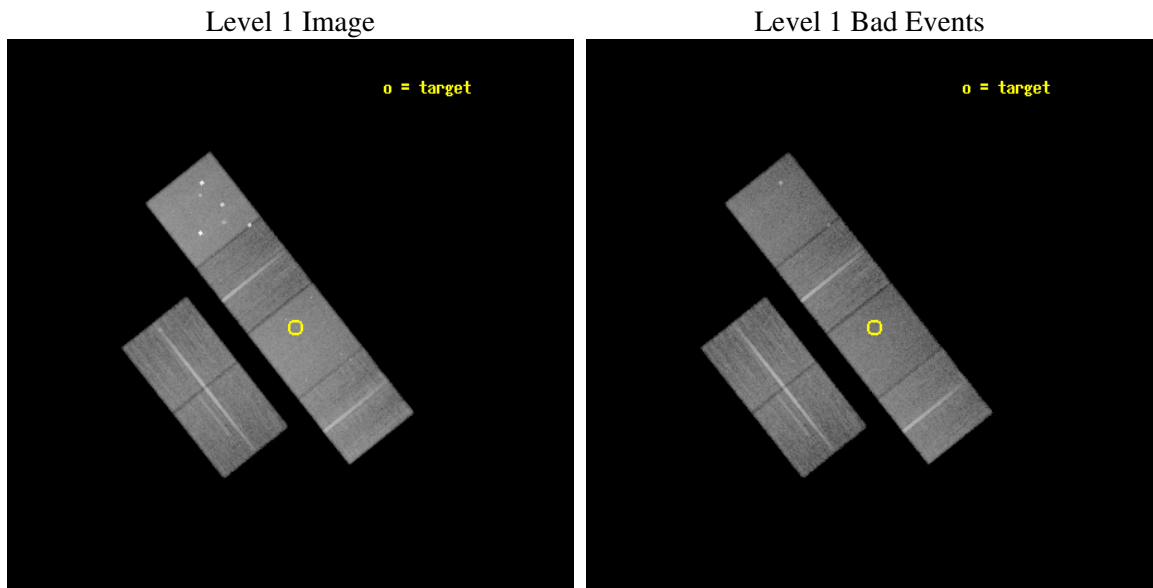
seq_num	200230
obs_id	3760
title	FINE X-RAY TOMOGRAPHY OF PLANETARY NEBULA
observer	MR JUN'ICHI KOTOKU
object	NGC 4361
dtcycle	0
cycle	P
ra_targ	186.129167
dec_targ	-18.785889
ra_nom	186.13867430931
dec_nom	-18.777289945039
roll_nom	51.602533423078
revision	2
ontime	29756.799889147
livetime	29380.001371557
ontime2	29753.558928788
ontime3	29756.799889147
ontime5	29756.799889147
ontime6	29756.799889147
ontime7	29756.799889147
ontime8	29753.558898896
l2events	290248



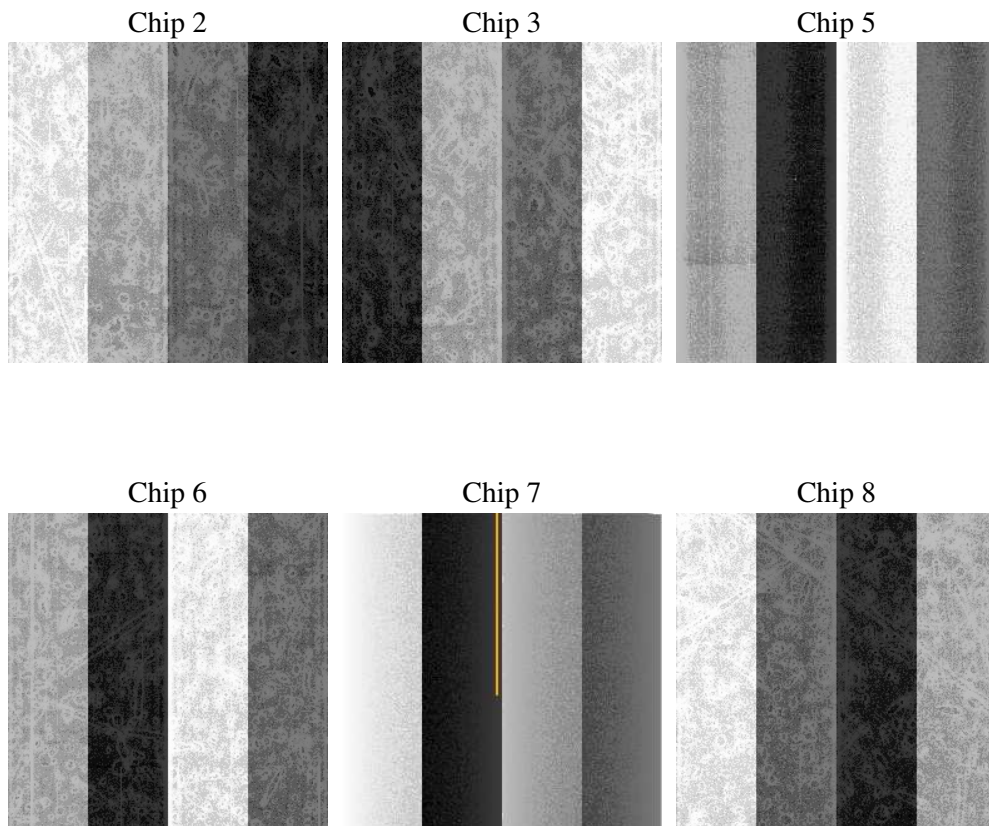
## 2 OBI

### 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	2006-07-27T16:11:46
revision	2

sched_exp_time	30000.000000
ontime	29762.189480603
ontime2	29758.948480427
ontime3	29765.430480778
ontime5	29762.189480603
ontime6	29765.430480778
ontime7	29762.189480603
ontime8	29762.189420879
l1events	1344703

### 2.1.4 Events

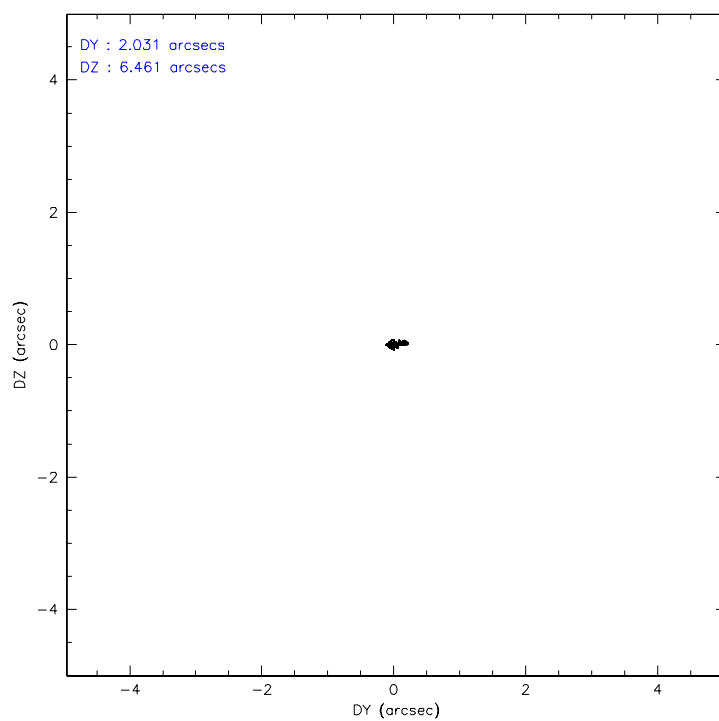
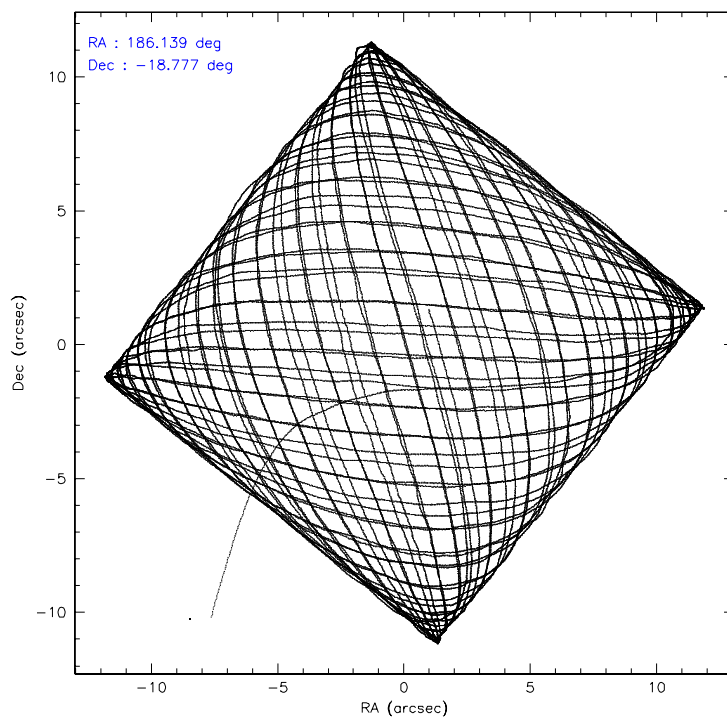
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	193440	181119	292297	186922	250020	240905
rejected events	171140	159838	153296	164668	152847	190501
rejected %	88%	88%	52%	88%	61%	79%

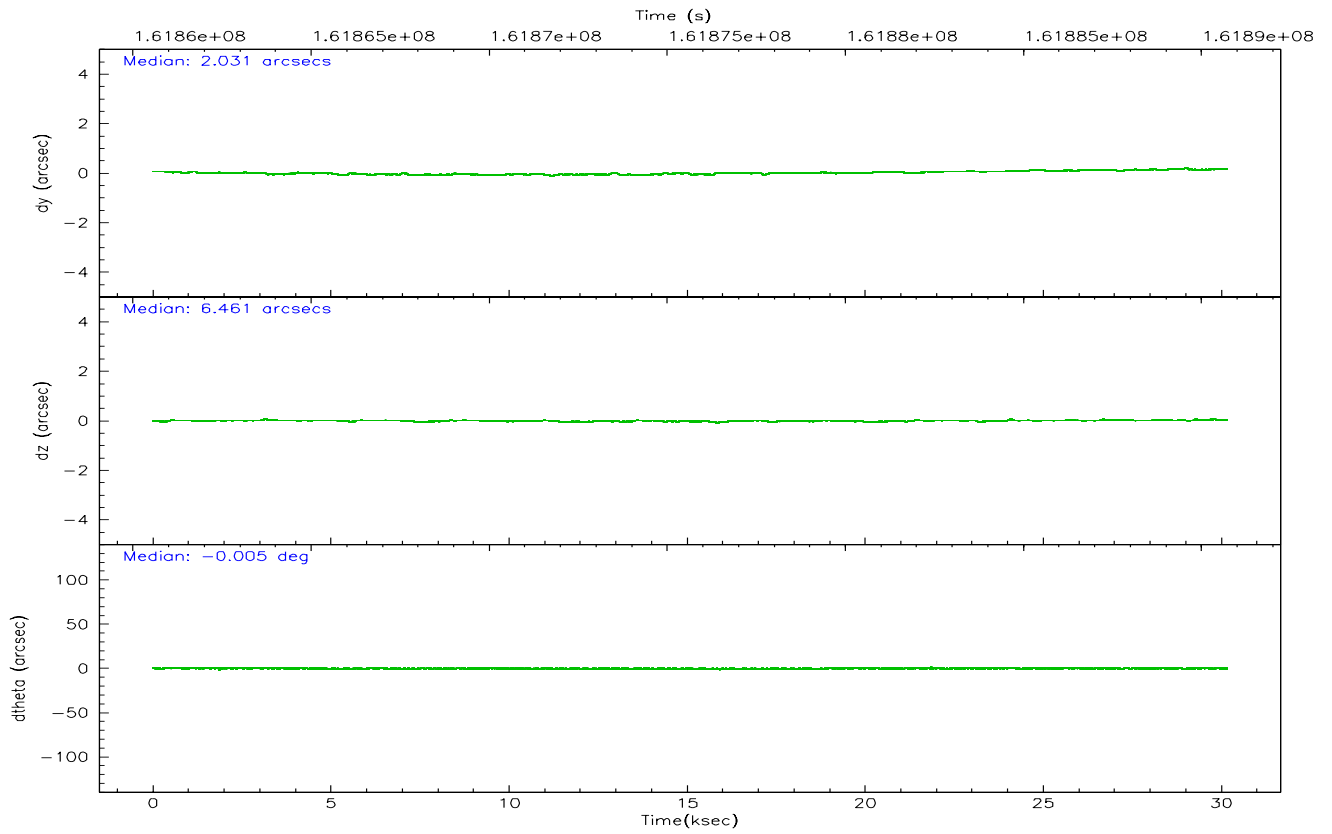
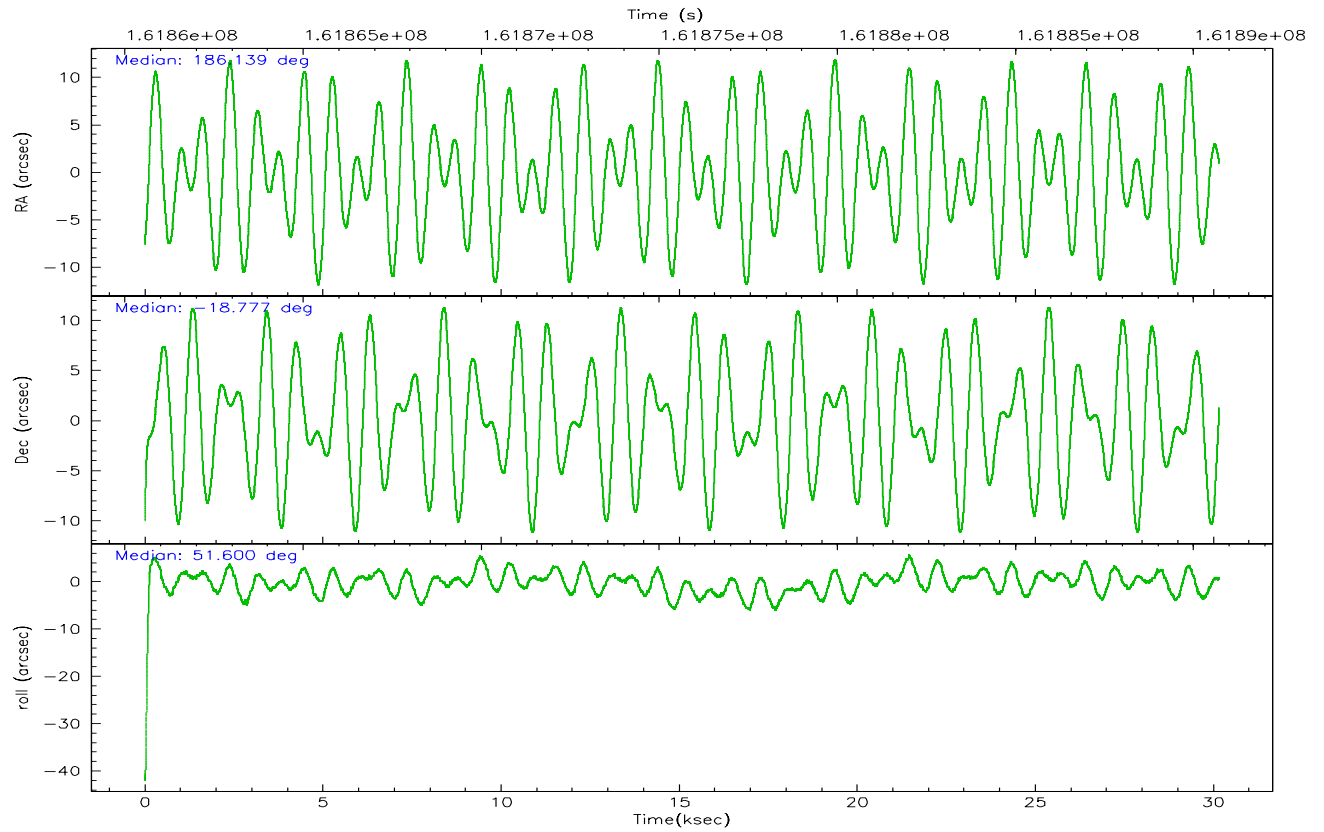
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	9878	9245	25383	9022	6438	16416
	5%	5%	8%	4%	2%	6%
grade 1 events	114	101	1088	86	140	162
	0%	0%	0%	0%	0%	0%
grade 2 events	4445	4074	38411	4625	23988	10630
	2%	2%	13%	2%	9%	4%
grade 3 events	2113	2127	2987	2103	5138	5470
	1%	1%	1%	1%	2%	2%
grade 4 events	2121	2120	2826	2142	4934	5141
	1%	1%	0%	1%	1%	2%
grade 5 events	7302	7852	13243	8488	16691	10791
	3%	4%	4%	4%	6%	4%
grade 6 events	3745	3720	69417	4371	56695	12759
	1%	2%	23%	2%	22%	5%
grade 7 events	163722	151880	138942	156085	135996	179536
	84%	83%	47%	83%	54%	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	186.134869	186.1386743093074	Alternating exposures requested	N	N
Pointing Dec	-18.804252	-18.77728994503877	Primary exposure time	0.000000	3.2
Pointing Roll	51.444696	51.60253342307826			
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	161860725.184000	161859929.48882			
Observation start date	2003-02-17T09:17:41	2003-02-17T09:05:29			
Observation end time	161890725.184000	161891514.86515			
Observation end date	2003-02-17T17:37:41	2003-02-17T17:51:54			
Read mode	TIMED	TIMED			

## 2.3 Aspect





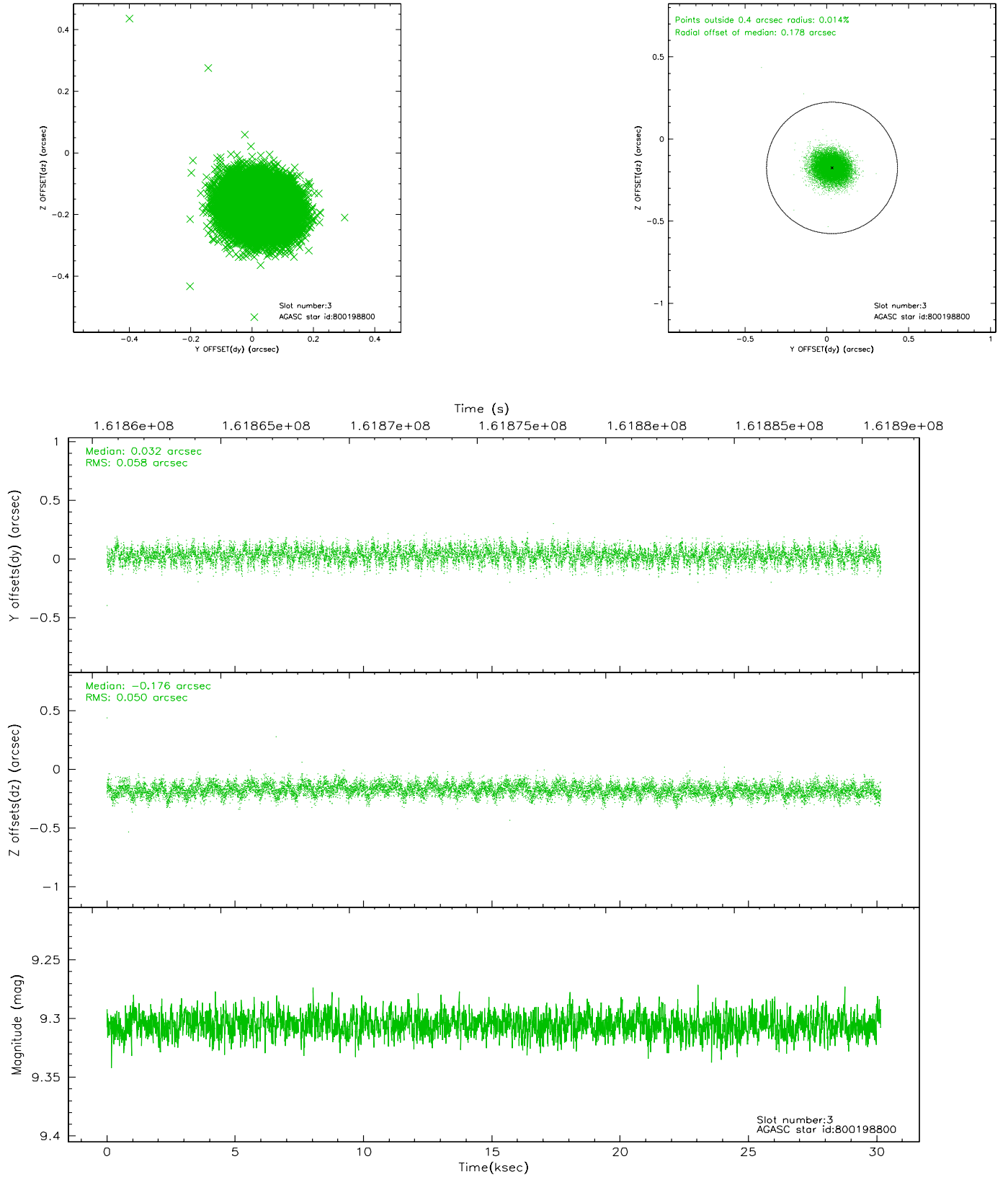
### Slot Statistics

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	7357	-0.040	0.021	0.014	0.019	0.000000	0.000000	-754.67	-1727.61
1	FID	ACIS-S-4	7.21	7357	-0.038	0.013	0.020	0.028	0.000000	0.000000	2158.54	180.85
2	FID	ACIS-S-5	7.24	7358	0.044	-0.025	0.013	0.018	0.000000	0.000000	-1807.37	174.49
3	GUIDE	800198800	9.31	14711	0.032	-0.176	0.081	0.130	186.138211	-18.243677	1585.30	1249.12
4	GUIDE	800205384	8.87	14708	0.246	0.036	0.081	0.126	186.219439	-19.549541	-1918.95	-1896.39
5	GUIDE	800205488	7.30	14714	0.113	0.082	0.056	0.088	185.969542	-19.225597	-1536.42	-505.97
6	GUIDE	800195416	9.03	14710	-0.215	-0.117	0.078	0.125	186.408187	-18.164014	2384.47	705.20
7	GUIDE	800326944	7.26	14713	-0.176	0.180	0.072	0.117	186.986954	-18.609747	2354.42	-1840.80

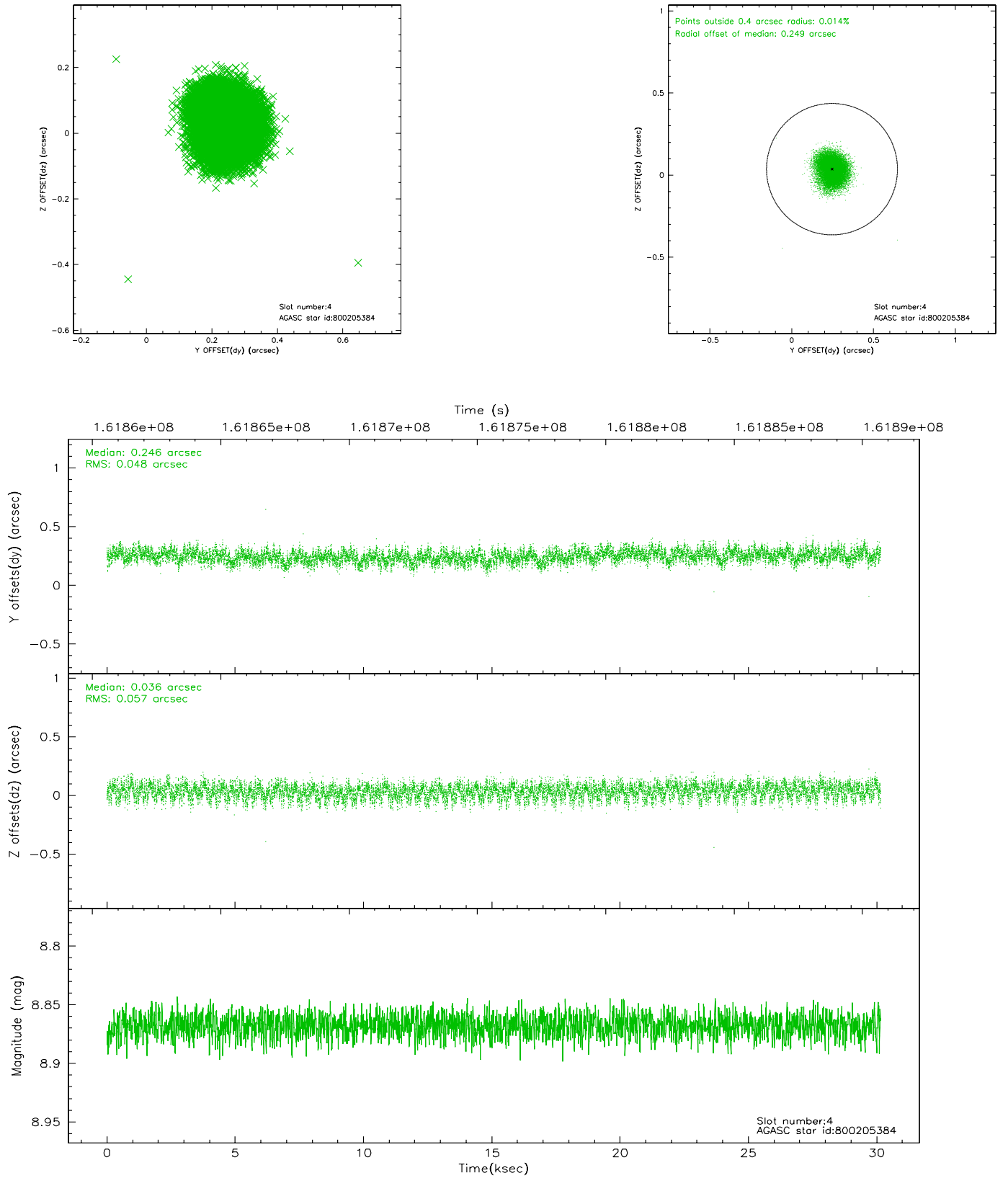


## 2.4 Star Slots

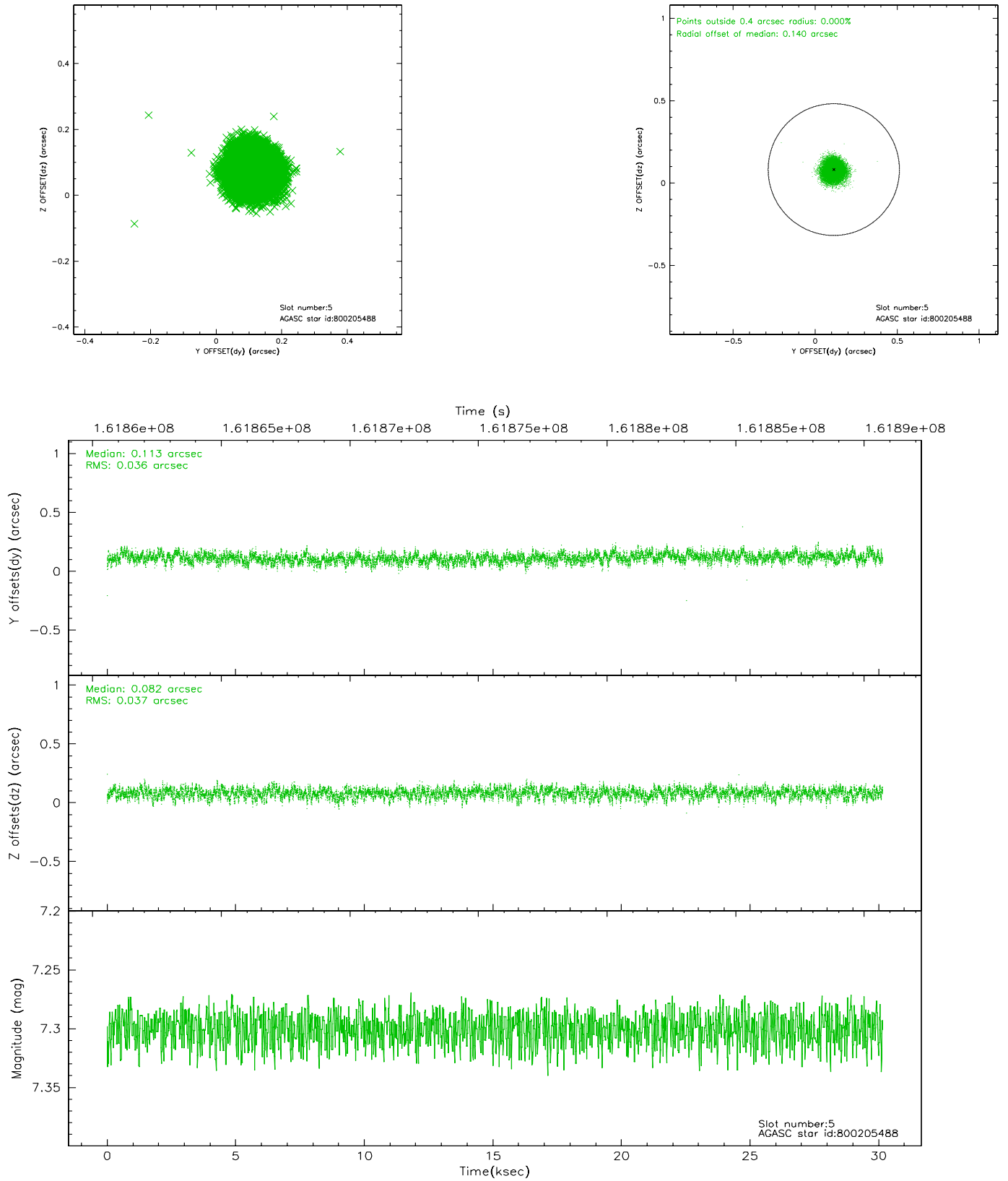
### 2.4.1 Slot 3



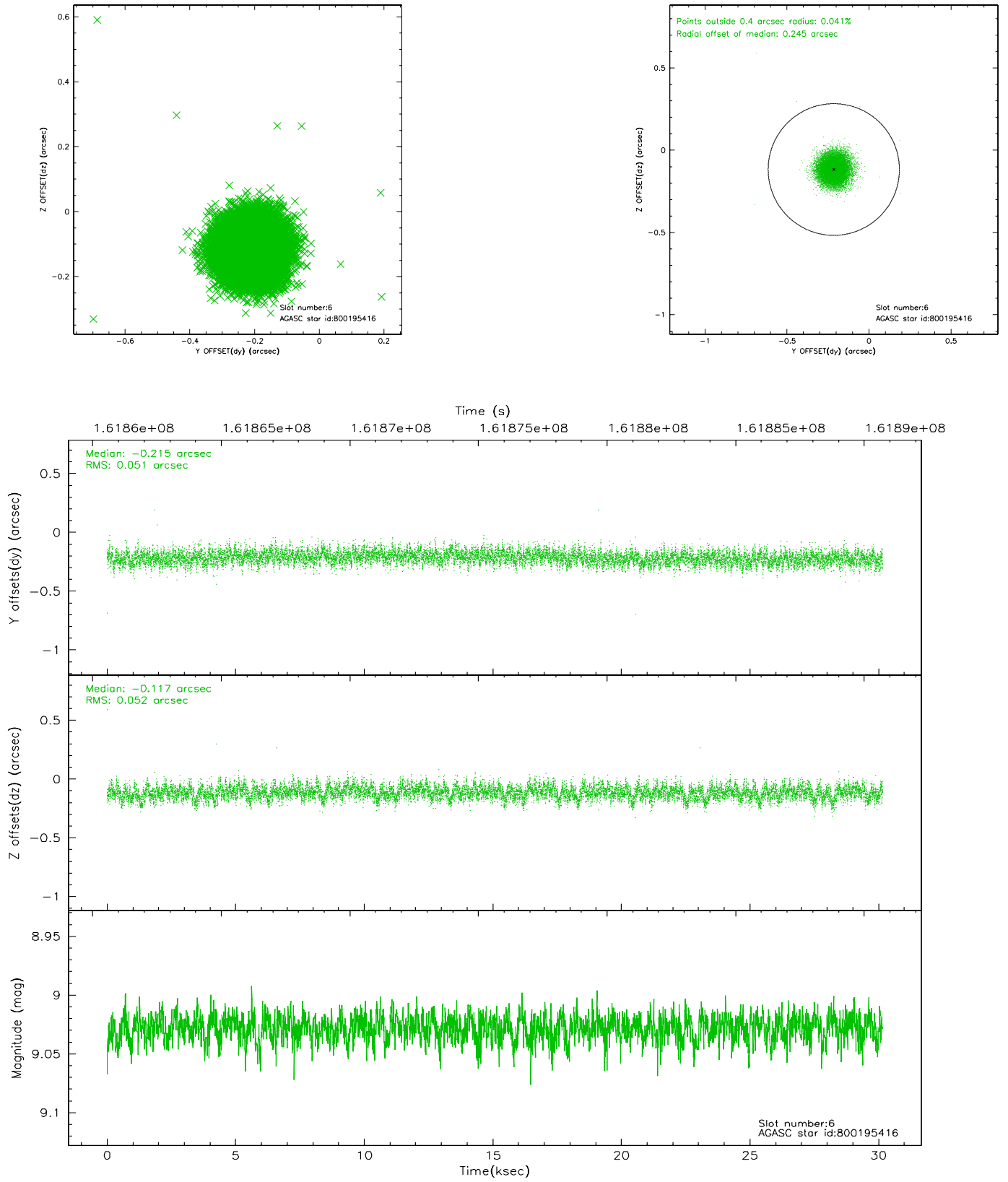
## 2.4.2 Slot 4



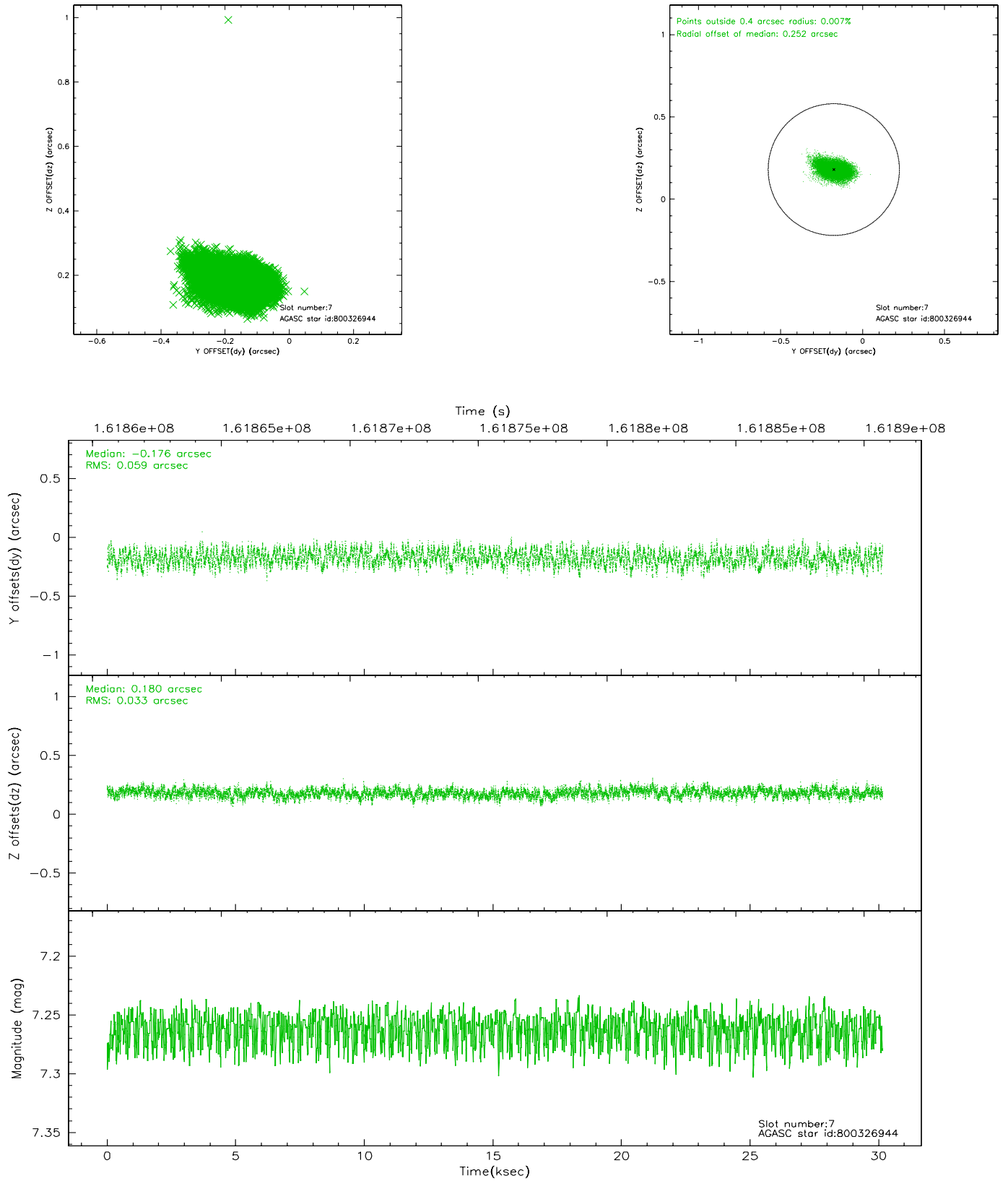
### 2.4.3 Slot 5



## 2.4.4 Slot 6

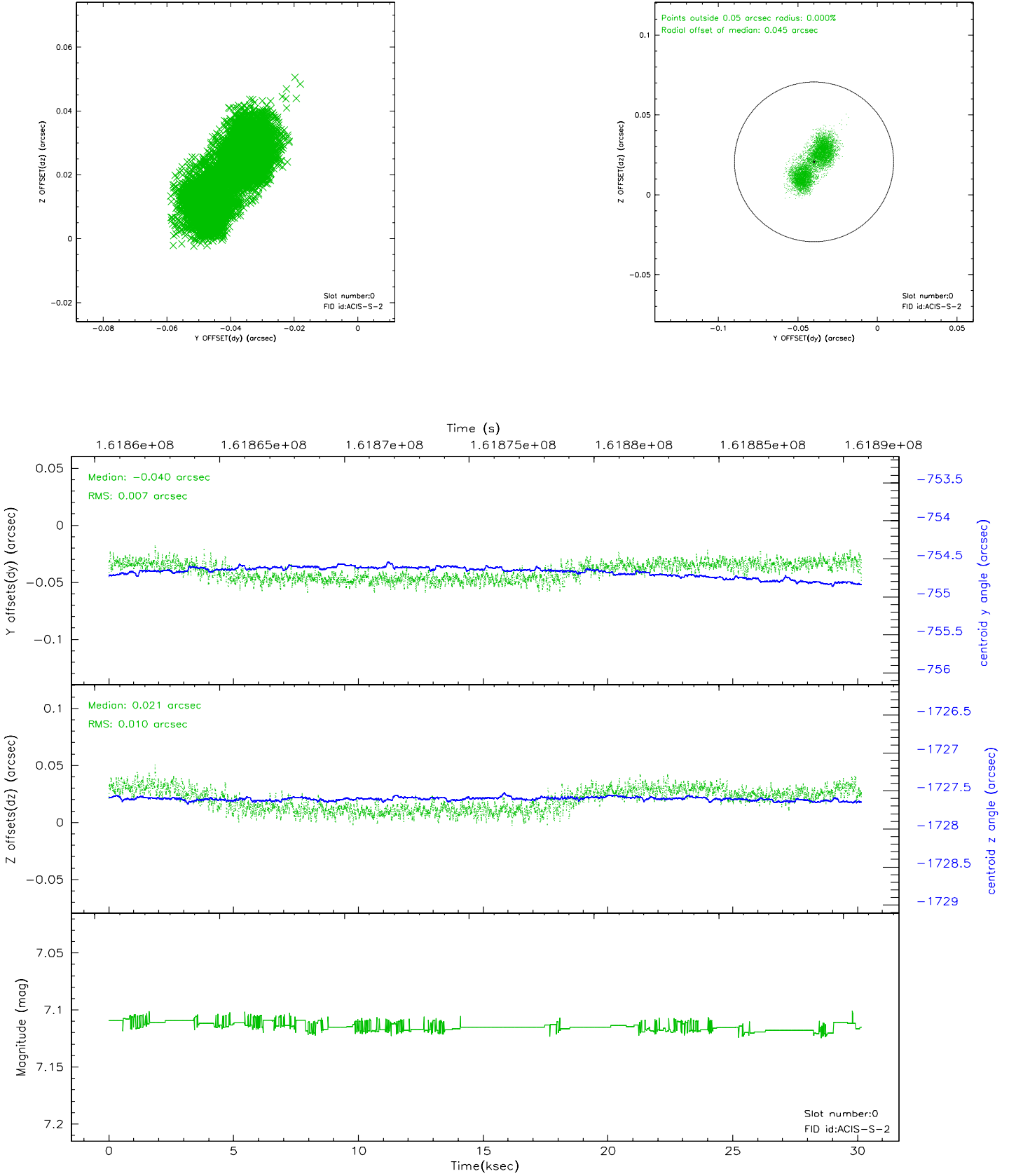


## 2.4.5 Slot 7

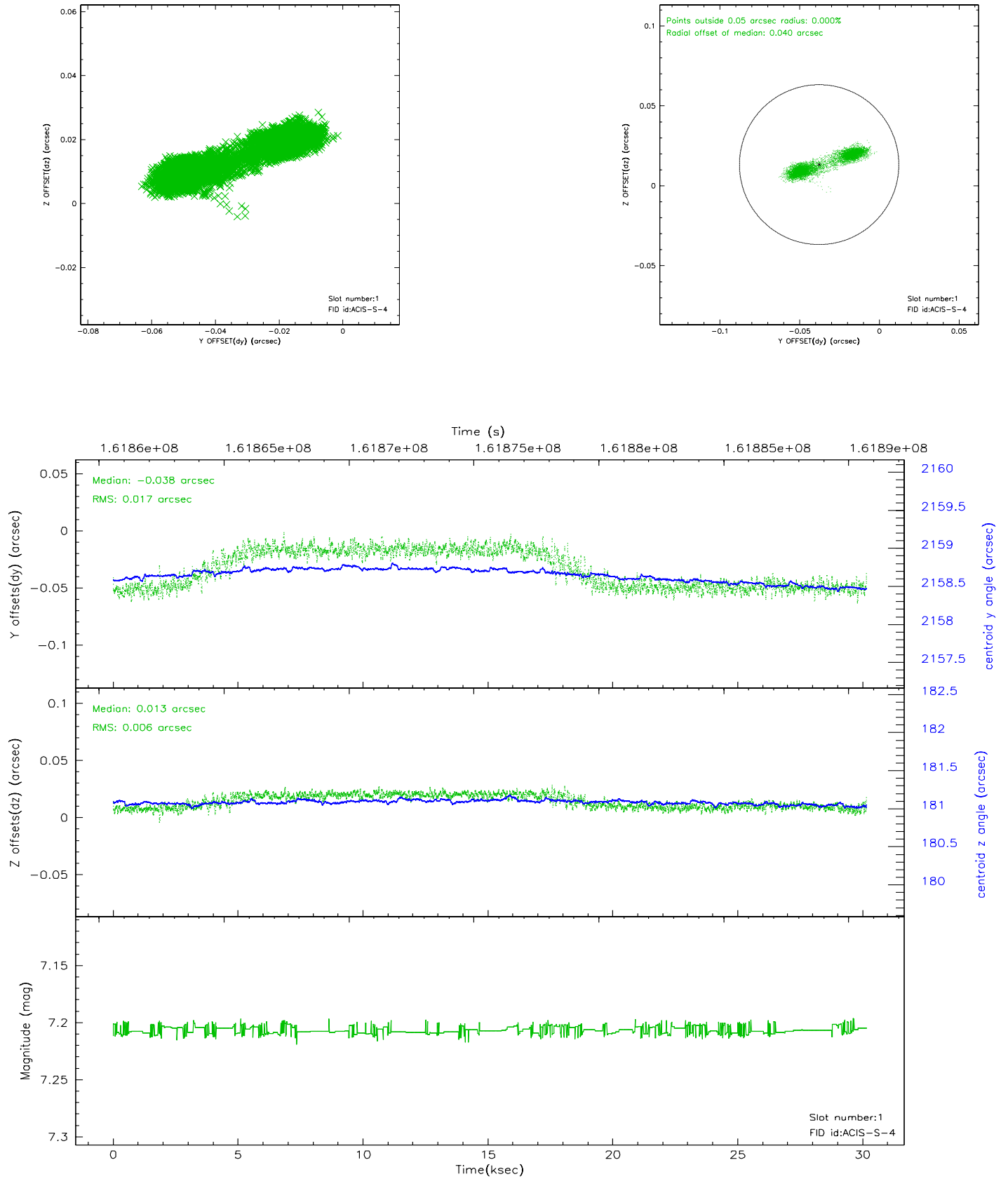


## 2.5 FID Slots

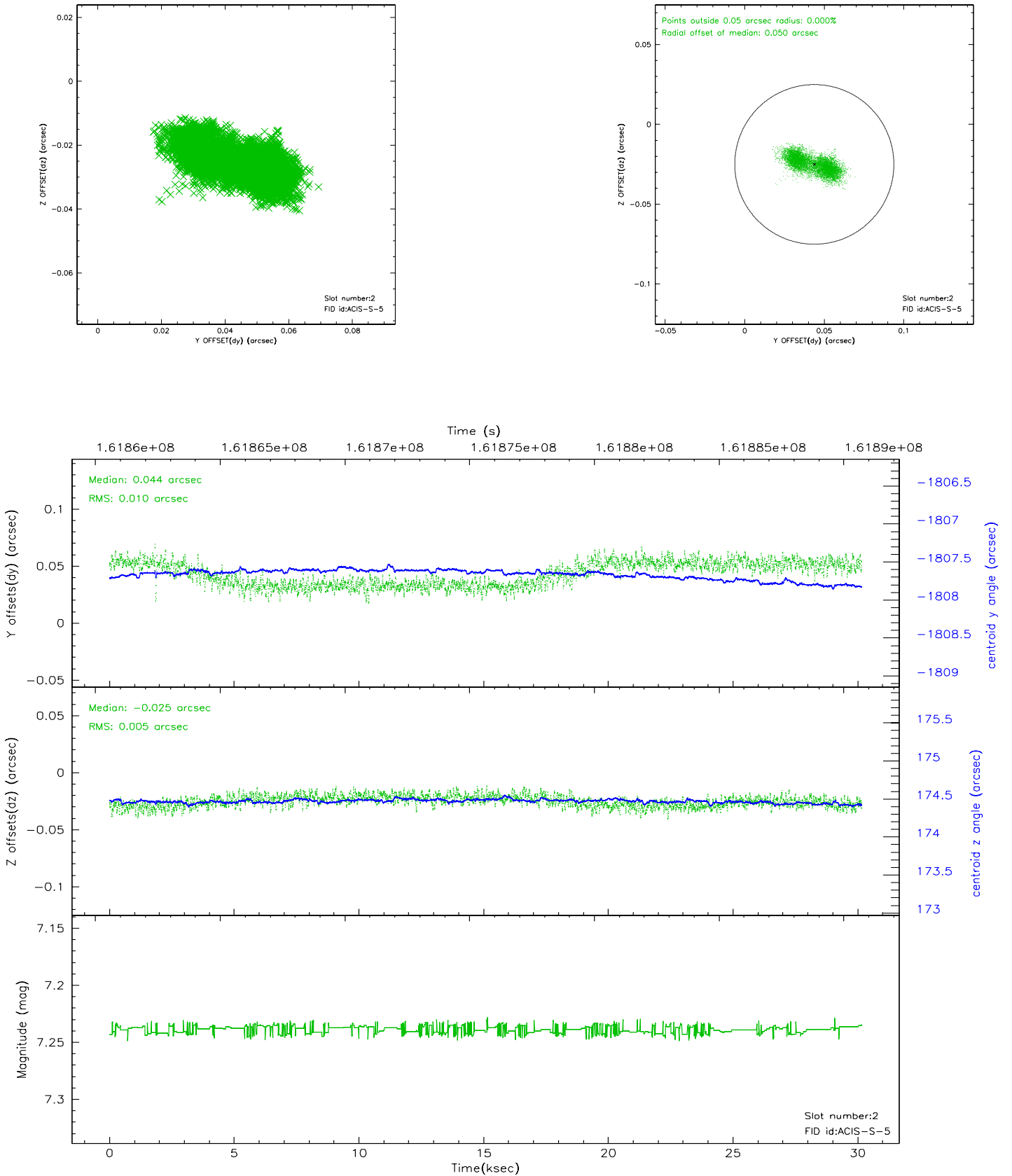
### 2.5.1 Slot 0



## 2.5.2 Slot 1

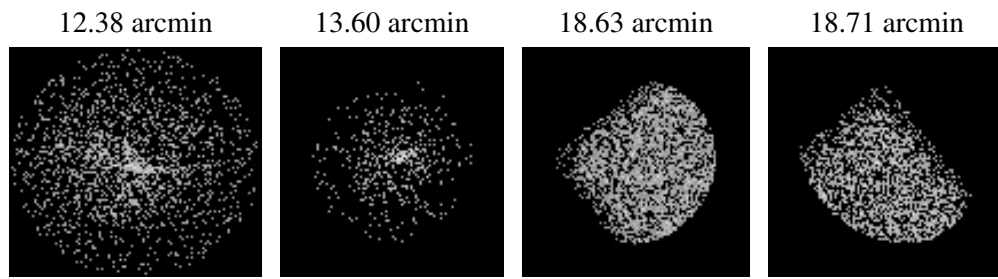


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.07.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	29.759

### A.2 Comments