

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 4507 - L2 Version 001  
Chandra X-Ray Center

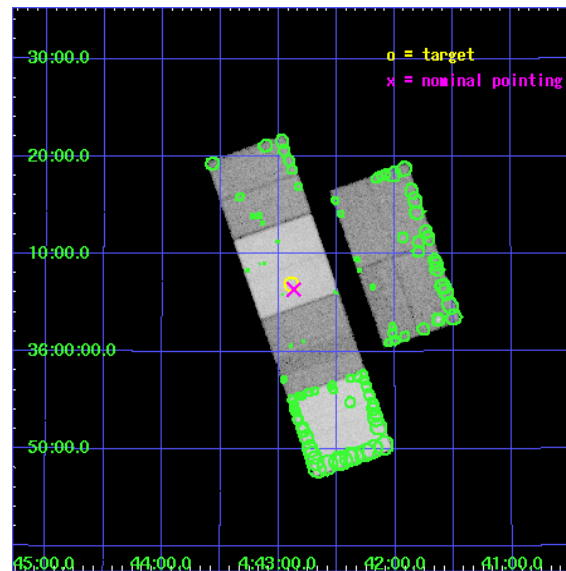
L2 Processing Date : Jun 22 2006

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# 1 Front

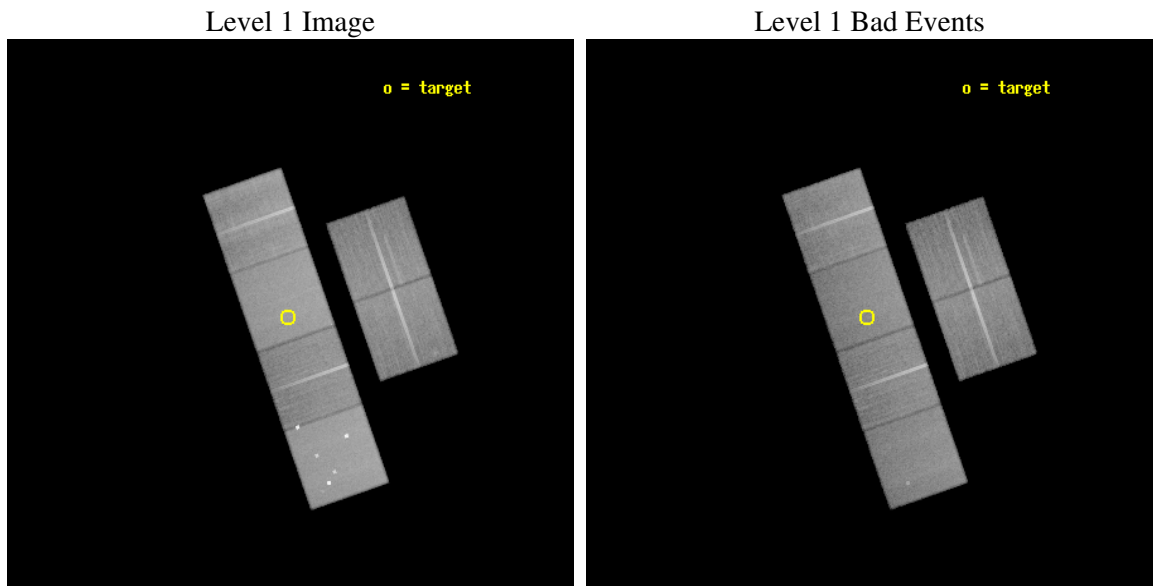
seq_num	200276
obs_id	4507
title	Wind-Wind Interactions and Stellar Magnetic Fields in Pre-Planetary Nebulae
observer	Dr. Raghvendra Sahai
object	AFGL 618
dtcycle	0
cycle	P
ra_targ	70.723333
dec_targ	36.114889
ra_nom	70.717472821045
dec_nom	36.106469071893
roll_nom	250.76957345848
revision	2
ontime	46172.799827993
livetime	45588.132034649
ontime2	46172.799827993
ontime3	46172.799827993
ontime5	46172.799827993
ontime6	46172.799827993
ontime7	46172.799827993
ontime8	46172.799827993
l2events	521817



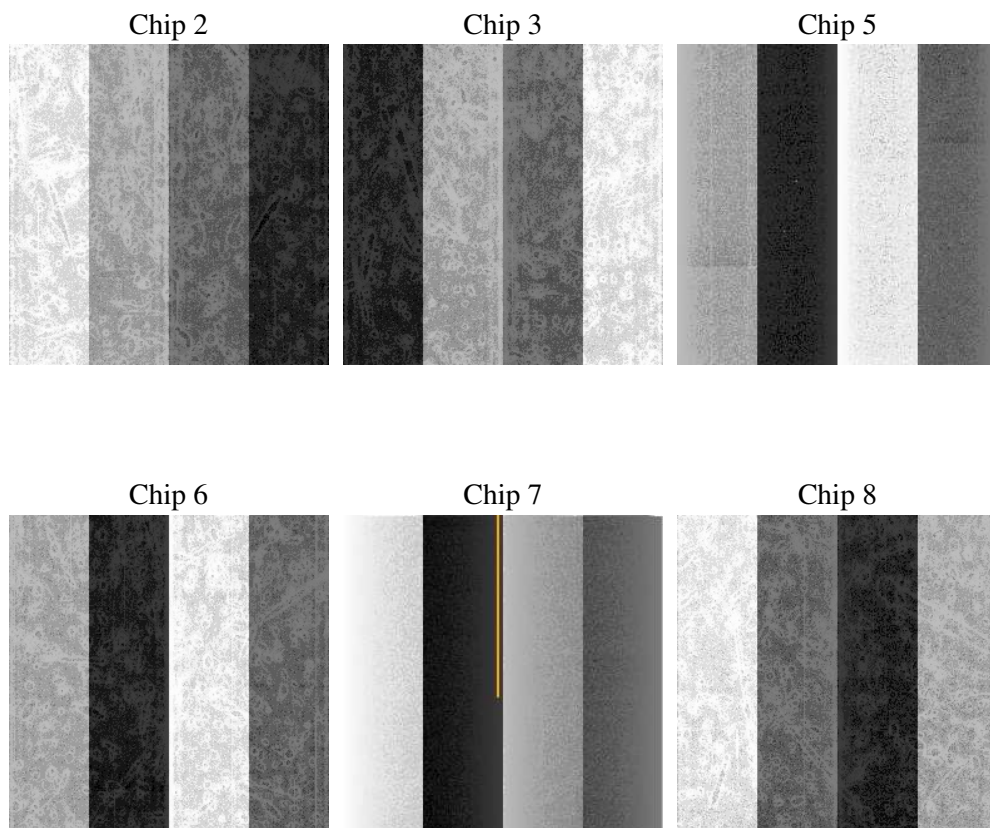
## 2 OBI

### 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	2006-06-22T16:32:04
revision	2

sched_exp_time	46000.000000
ontime	46427.486079365
ontime2	46427.486079365
ontime3	46427.486079365
ontime5	46427.486079365
ontime6	46427.486079365
ontime7	46427.486079365
ontime8	46427.486079365
l1events	2160519

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	304613	292124	466658	304416	414202	378506
rejected events	257986	245739	248509	257342	250920	288917
rejected %	84%	84%	53%	84%	60%	76%

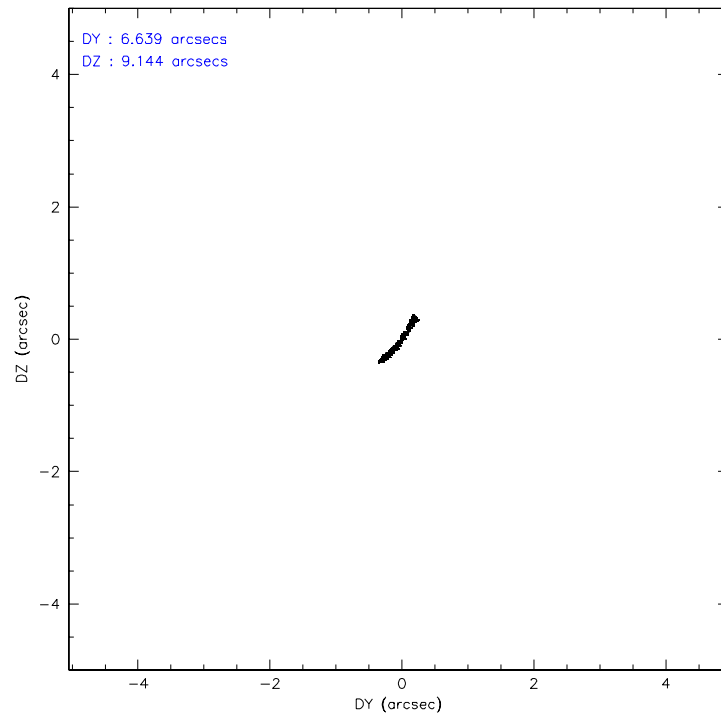
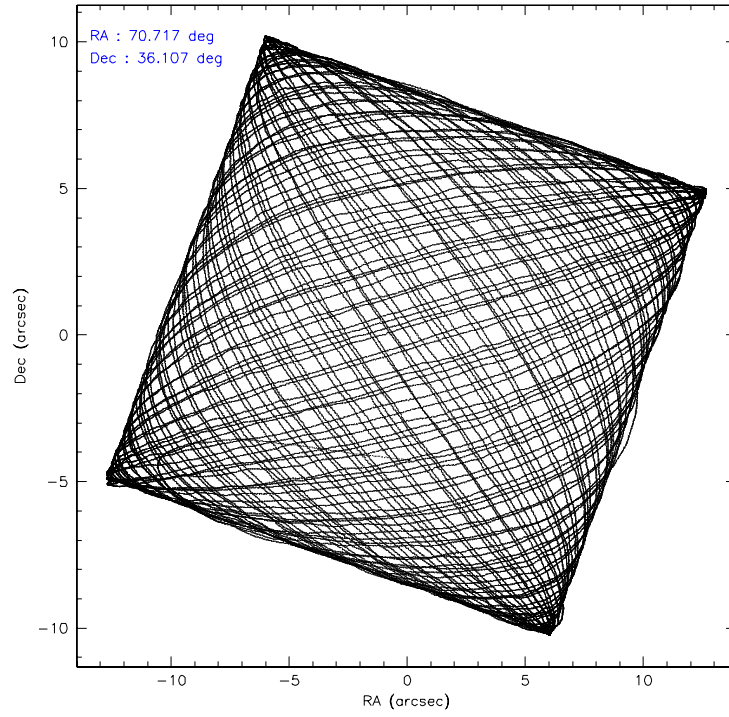
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	25167	24885	29990	23574	9288	35523
	8%	8%	6%	7%	2%	9%
grade 1 events	191	218	343	179	210	282
	0%	0%	0%	0%	0%	0%
grade 2 events	8109	7599	64224	8636	39075	18123
	2%	2%	13%	2%	9%	4%
grade 3 events	3642	3815	5054	3750	7944	8416
	1%	1%	1%	1%	1%	2%
grade 4 events	3672	3758	4267	3650	7915	7780
	1%	1%	0%	1%	1%	2%
grade 5 events	11752	12825	21171	13590	26324	17738
	3%	4%	4%	4%	6%	4%
grade 6 events	6215	6535	115856	7673	99939	20108
	2%	2%	24%	2%	24%	5%
grade 7 events	245865	232489	225753	243364	223507	270536
	80%	79%	48%	79%	53%	71%

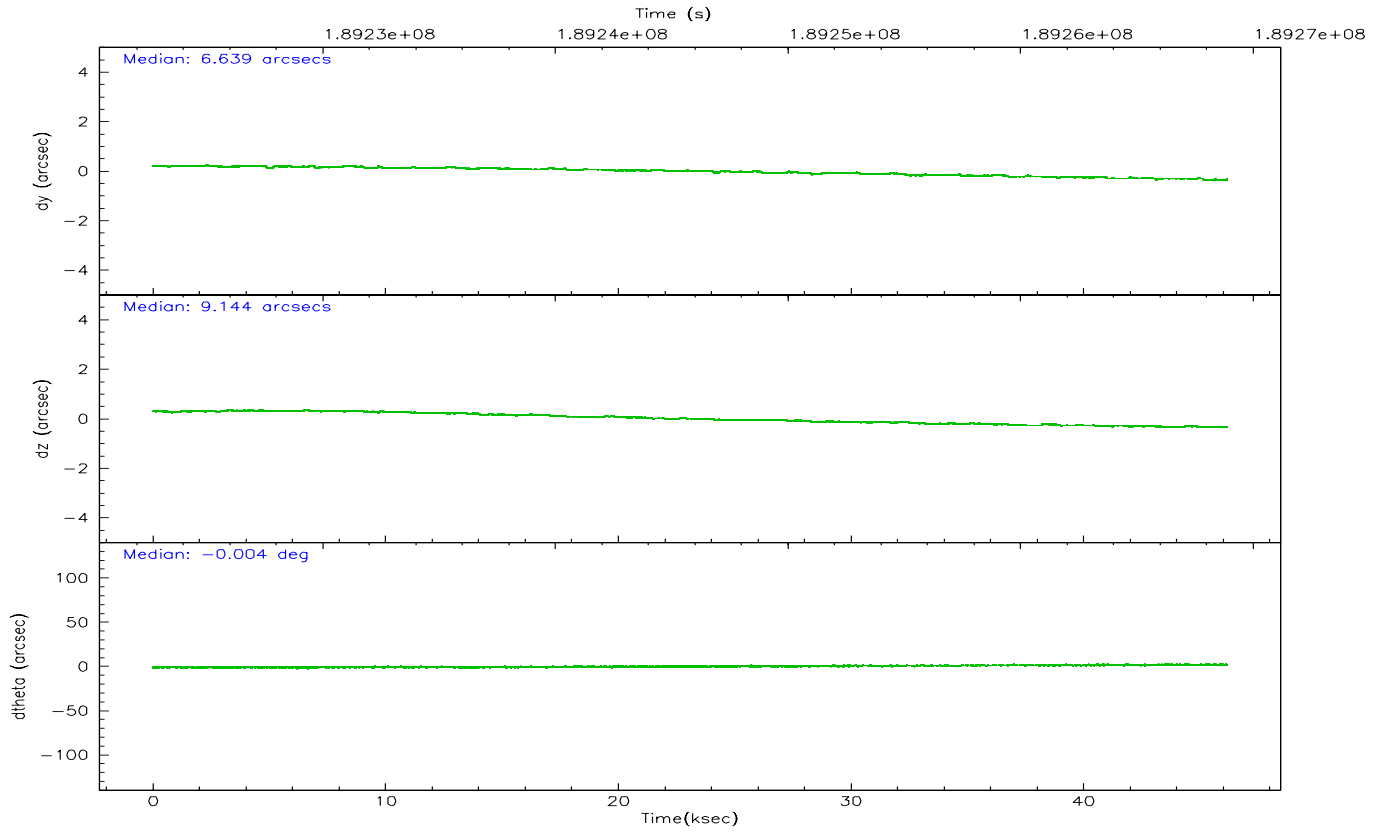
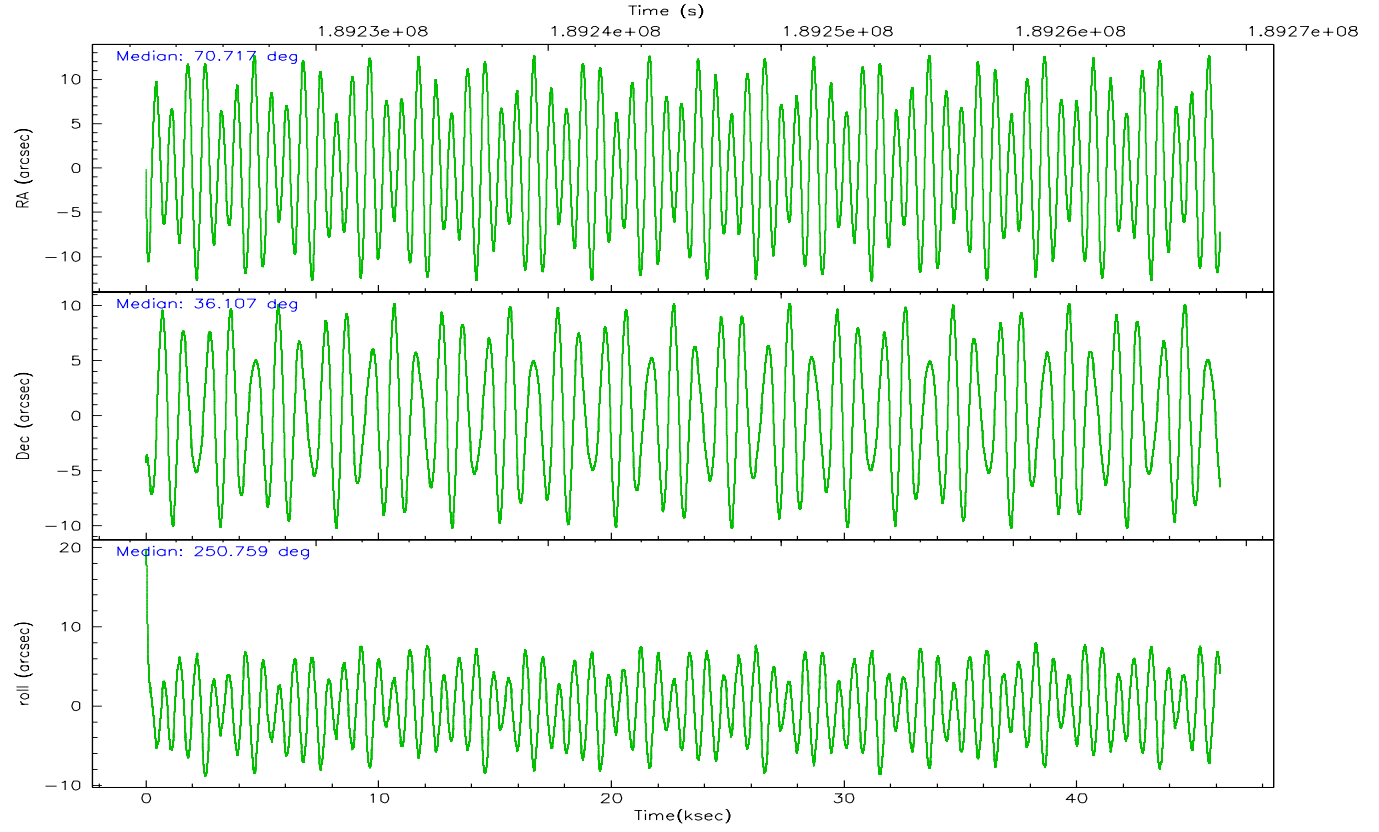


## 2.2 Compared Parameters

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	70.710725	70.71747282104461	Alternating exposures requested	N	N
Pointing Dec	36.133138	36.10646907189289	Primary exposure time	0.000000	3.2
Pointing Roll	250.616916	250.7695734584831			
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	189222880.184000	189221688.60694			
Observation start date	2003-12-31T01:53:36	2003-12-31T01:34:48			
Observation end time	189268880.184000	189270340.74656			
Observation end date	2003-12-31T14:40:16	2003-12-31T15:05:40			
Read mode	TIMED	TIMED			

## 2.3 Aspect



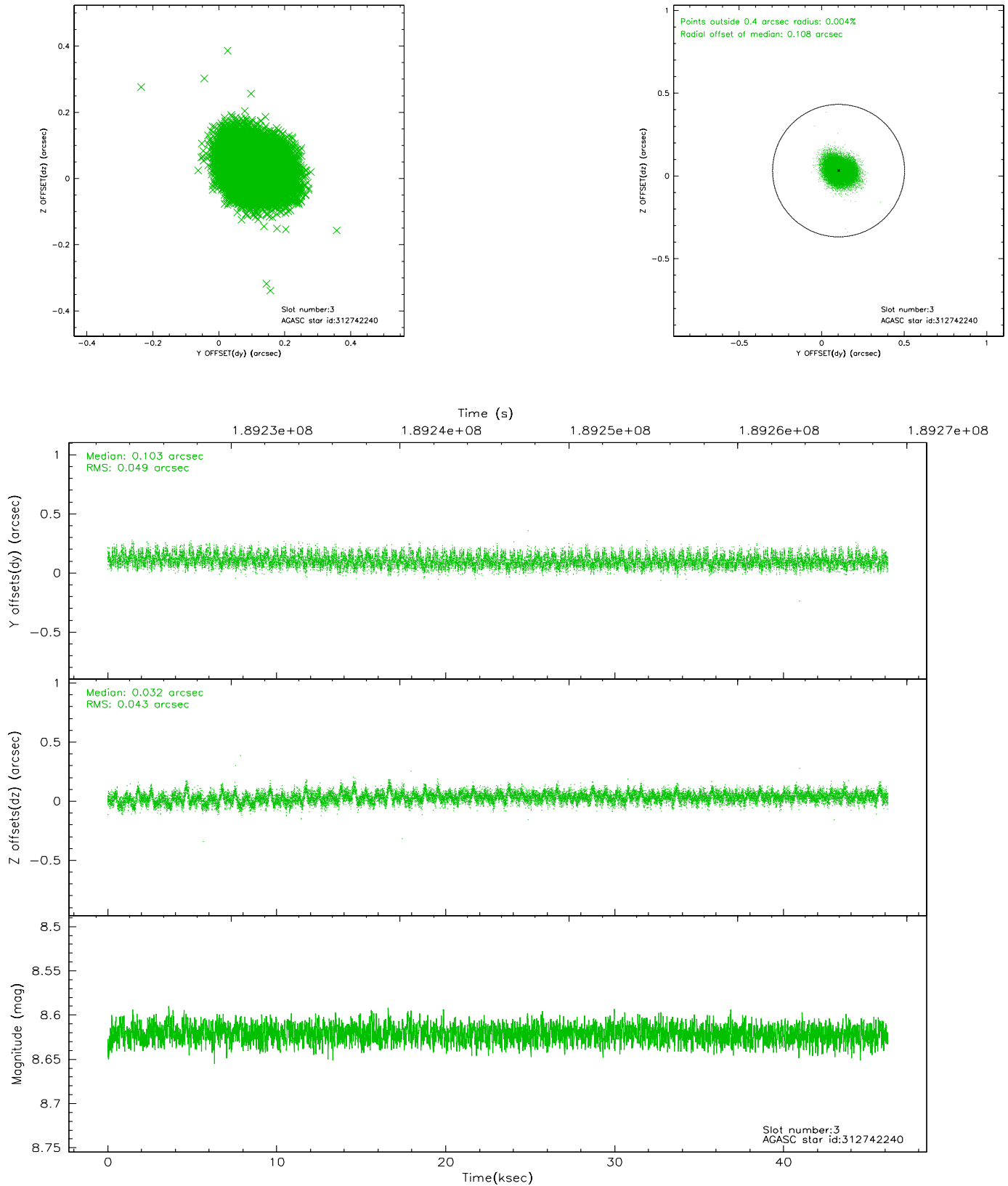


### Slot Statistics

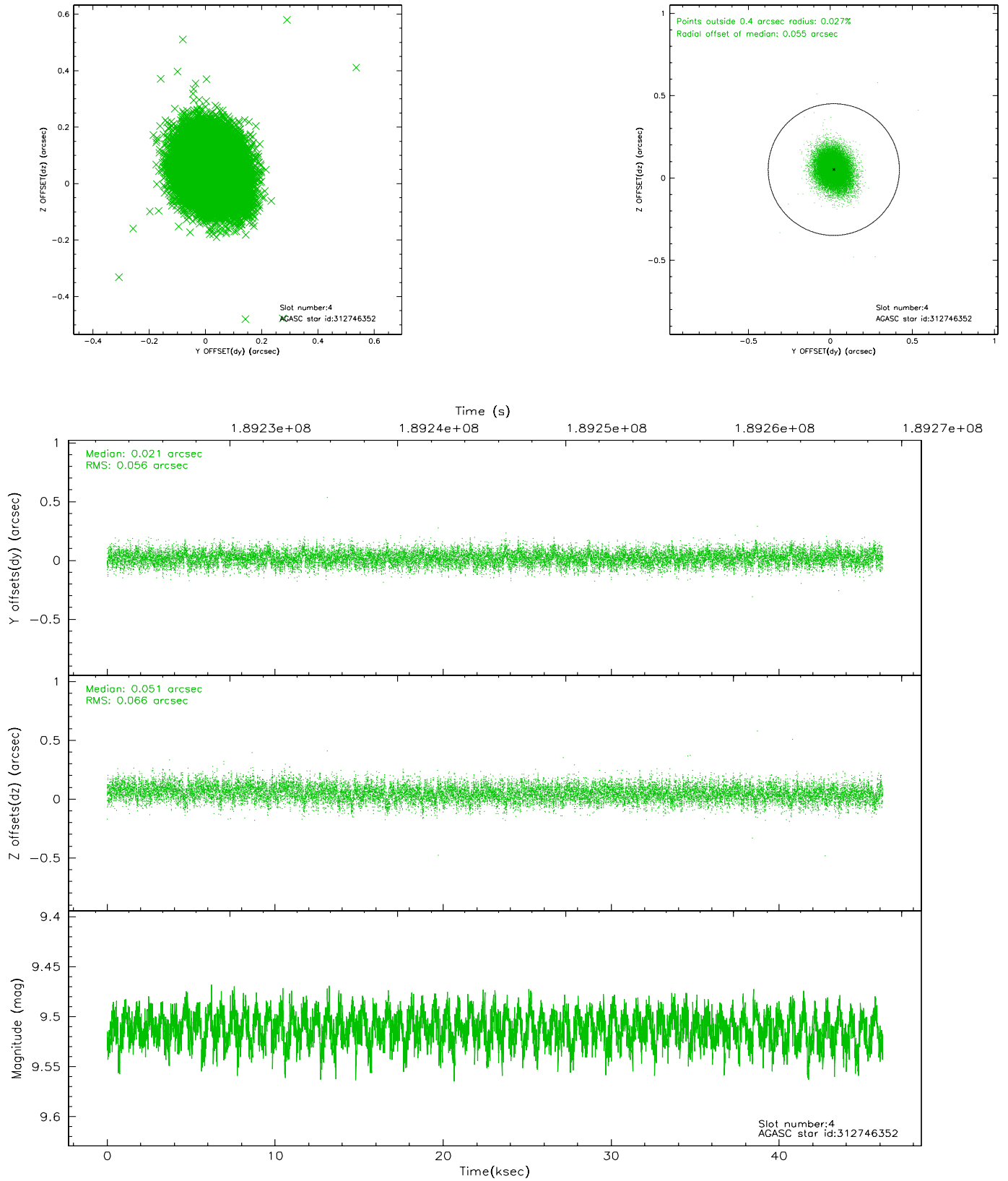
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	11261	-0.029	-0.019	0.011	0.026	0.000000	0.000000	-759.38	-1730.40
1	FID	ACIS-S-4	7.20	11264	0.036	0.019	0.010	0.024	0.000000	0.000000	2153.95	178.14
2	FID	ACIS-S-5	7.23	11263	-0.037	0.008	0.011	0.026	0.000000	0.000000	-1812.25	171.77
3	GUIDE	312742240	8.62	22522	0.103	0.032	0.069	0.112	71.496999	36.285377	-1283.00	1967.44
4	GUIDE	312746352	9.51	22515	0.021	0.051	0.091	0.150	69.967535	36.238633	350.77	-2163.95
5	GUIDE	312747416	8.29	22525	0.031	-0.045	0.079	0.125	69.854132	35.954270	1426.36	-2144.33
6	GUIDE	312750096	8.12	22524	-0.054	0.010	0.057	0.090	70.656711	36.311567	-553.64	-360.95
7	GUIDE	312748448	8.44	22518	-0.101	-0.047	0.085	0.131	71.381649	35.746317	656.40	2309.55

## 2.4 Star Slots

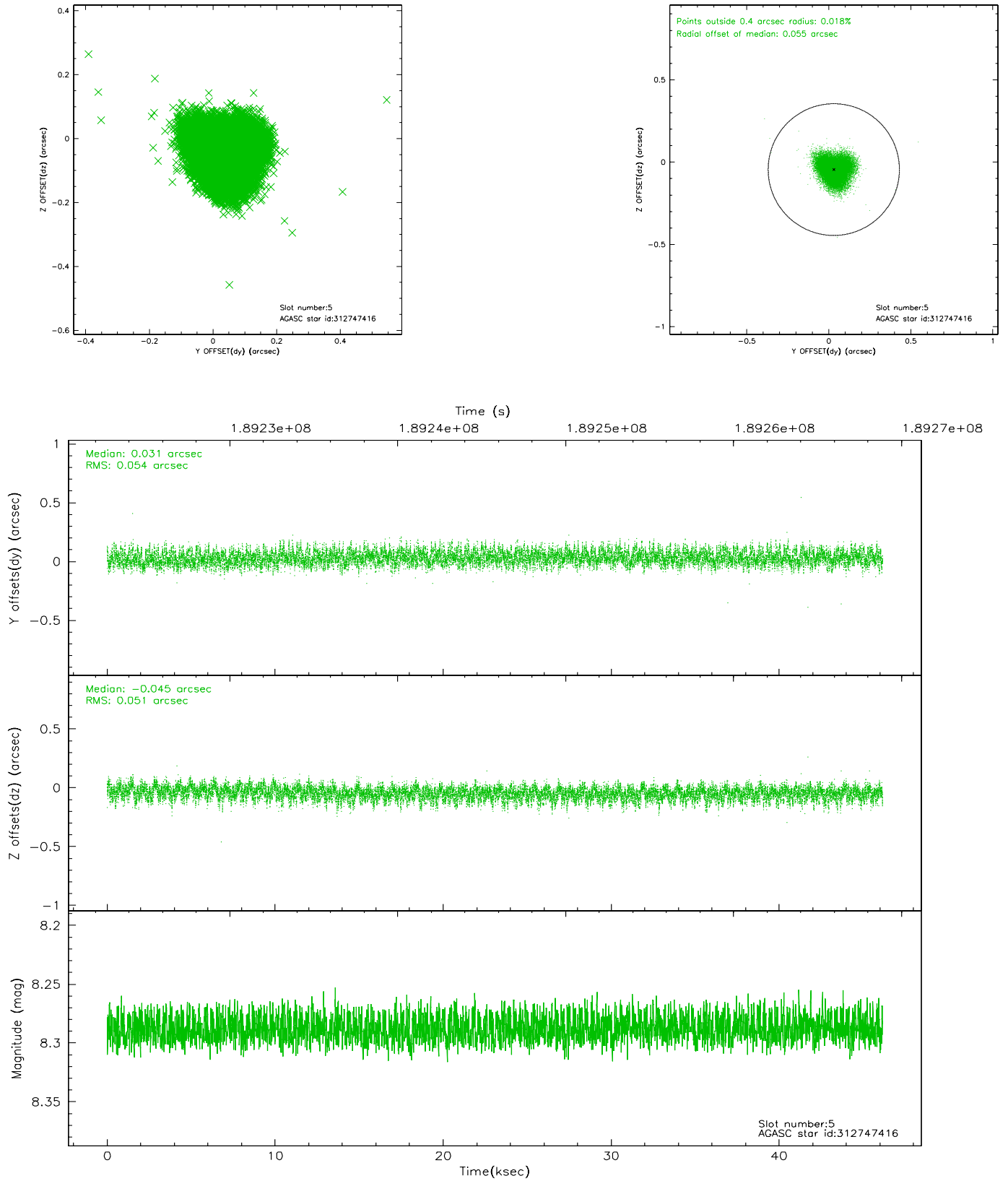
### 2.4.1 Slot 3



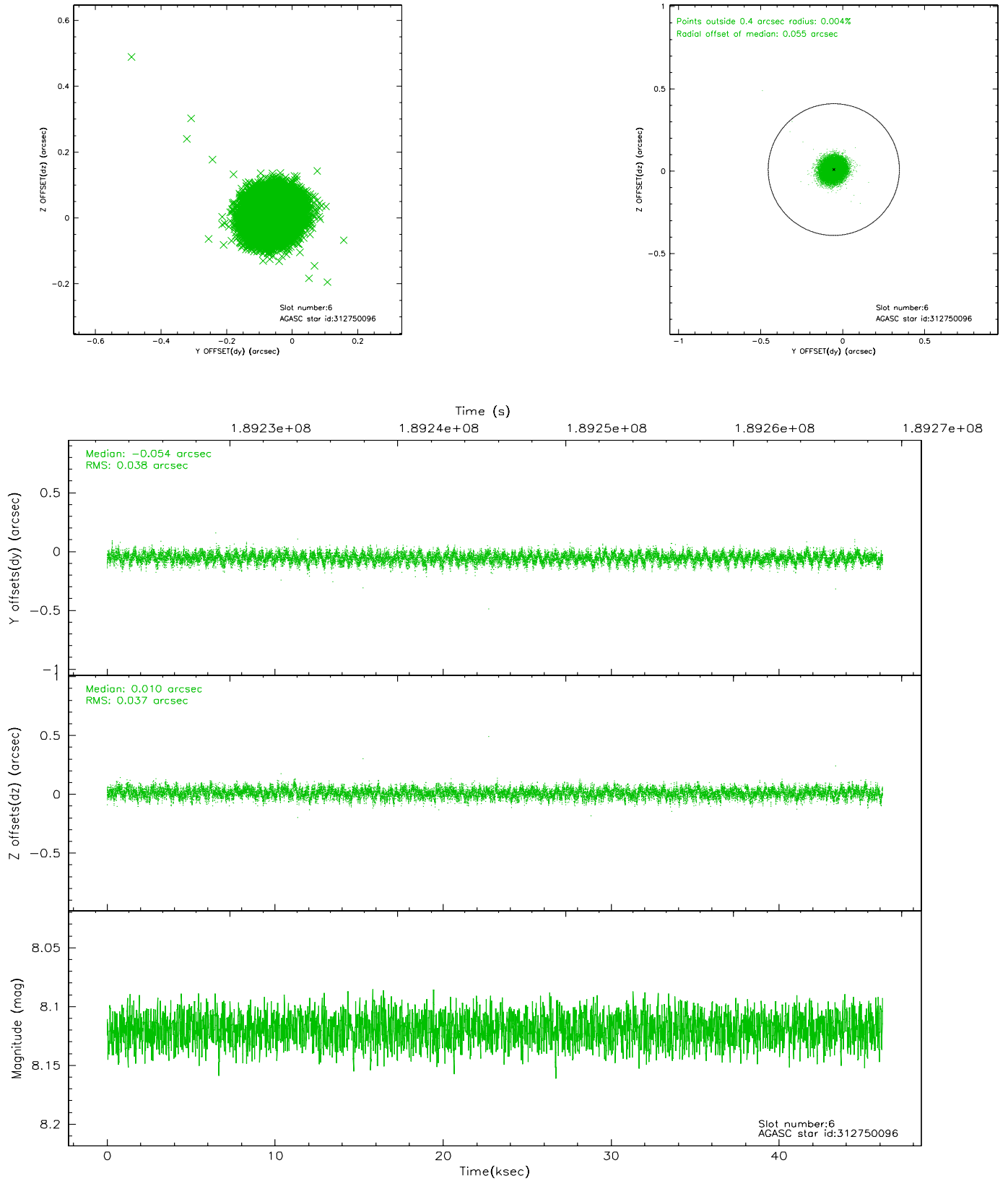
## 2.4.2 Slot 4



### 2.4.3 Slot 5

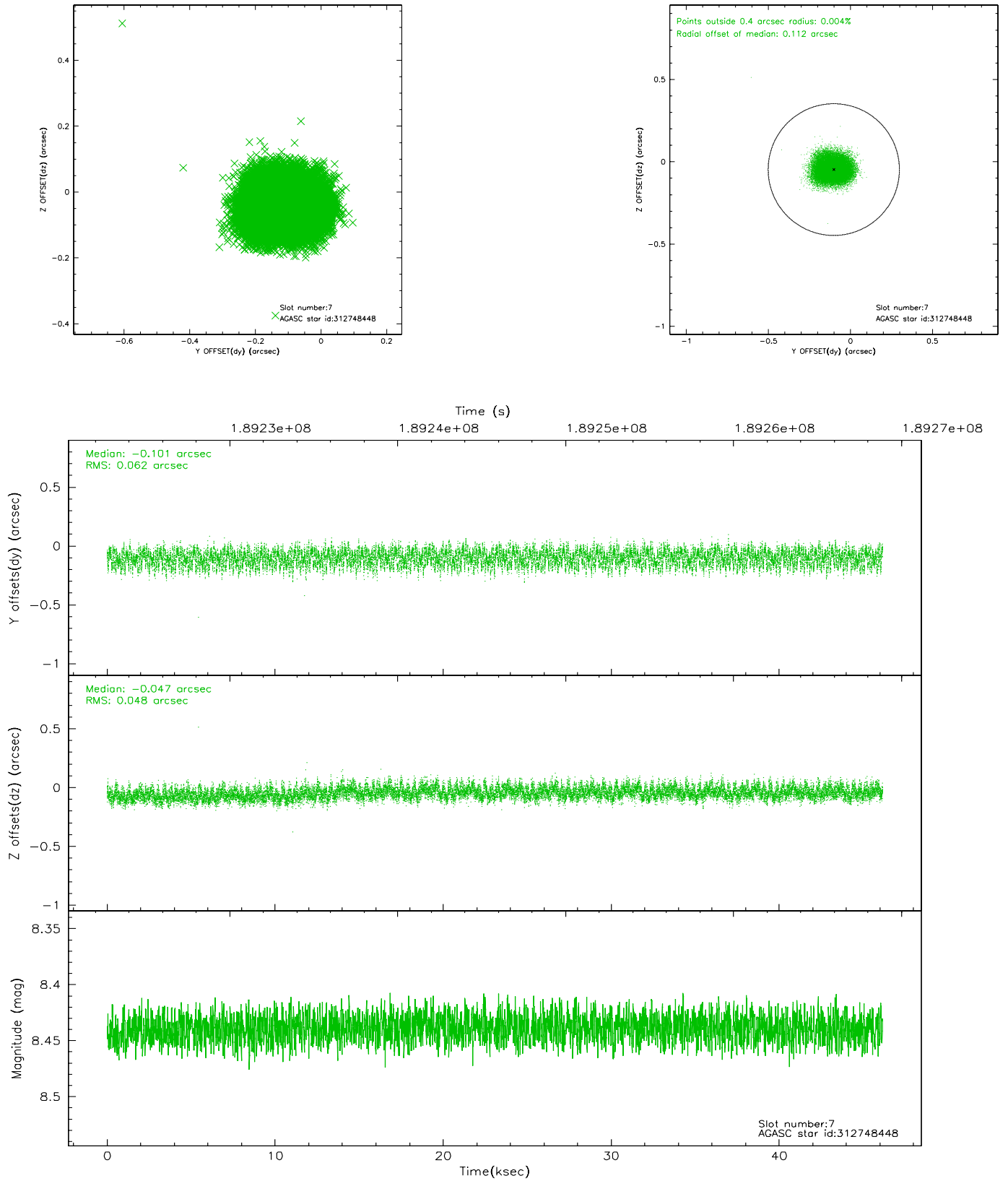


## 2.4.4 Slot 6



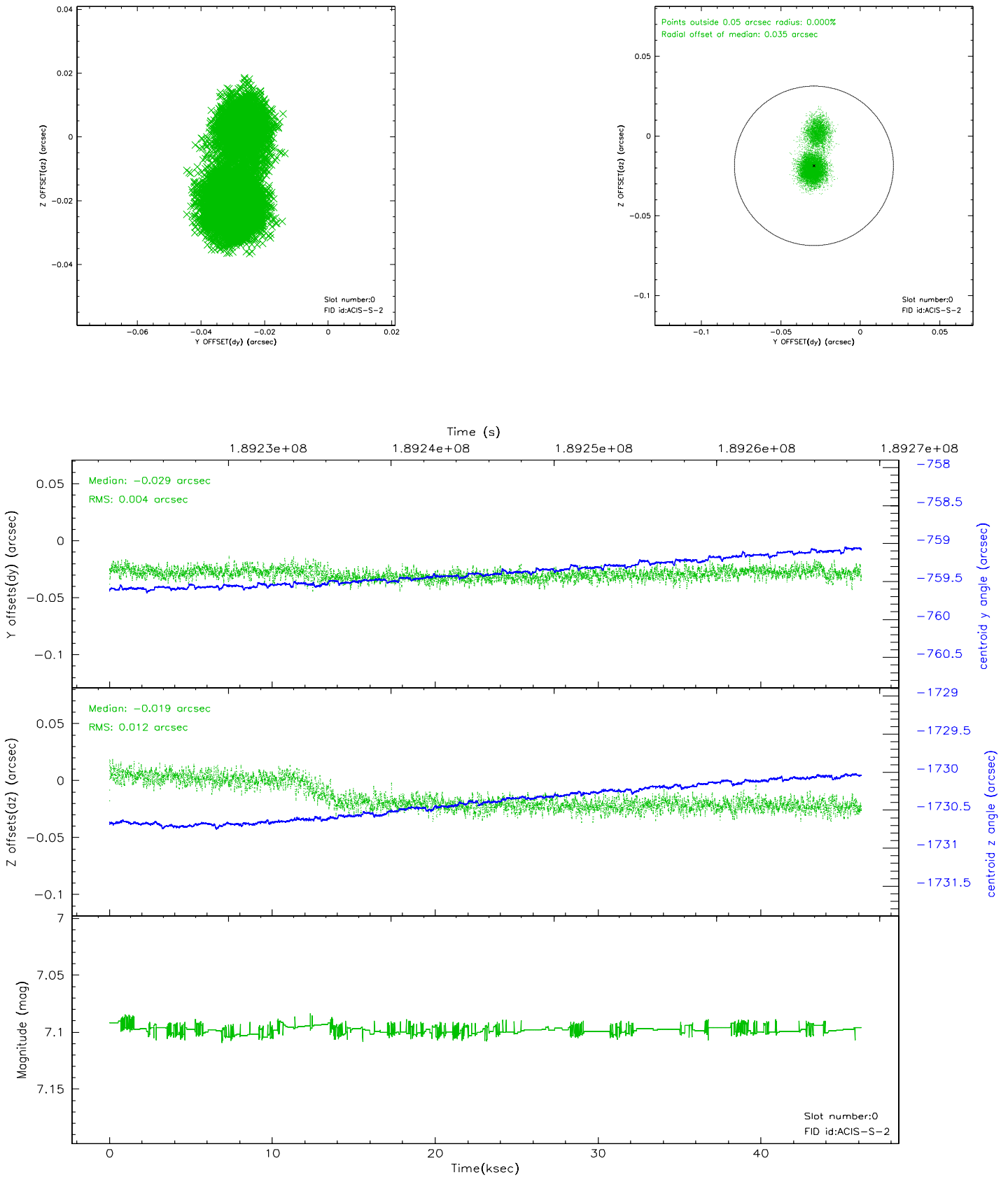


## 2.4.5 Slot 7

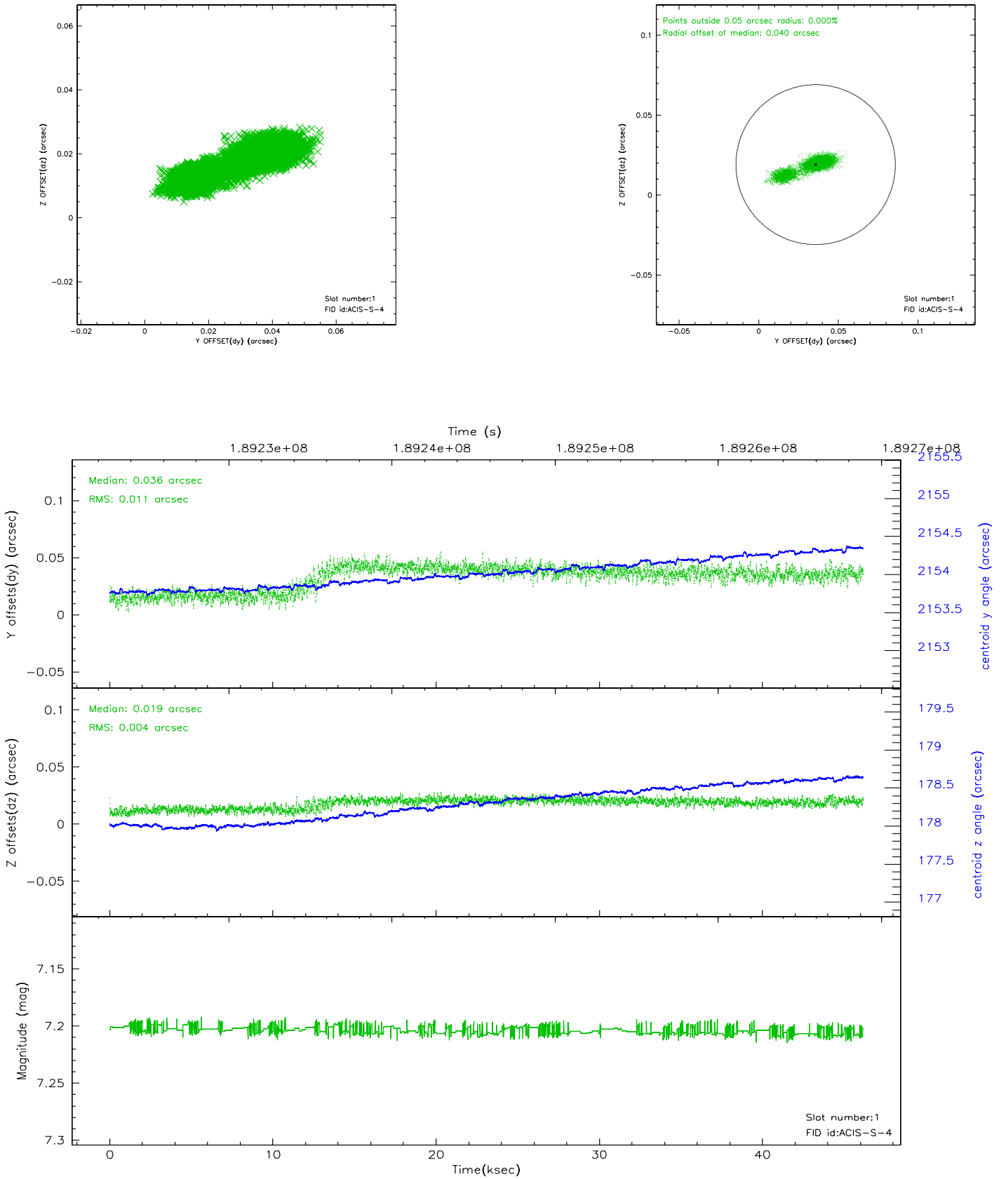


## 2.5 FID Slots

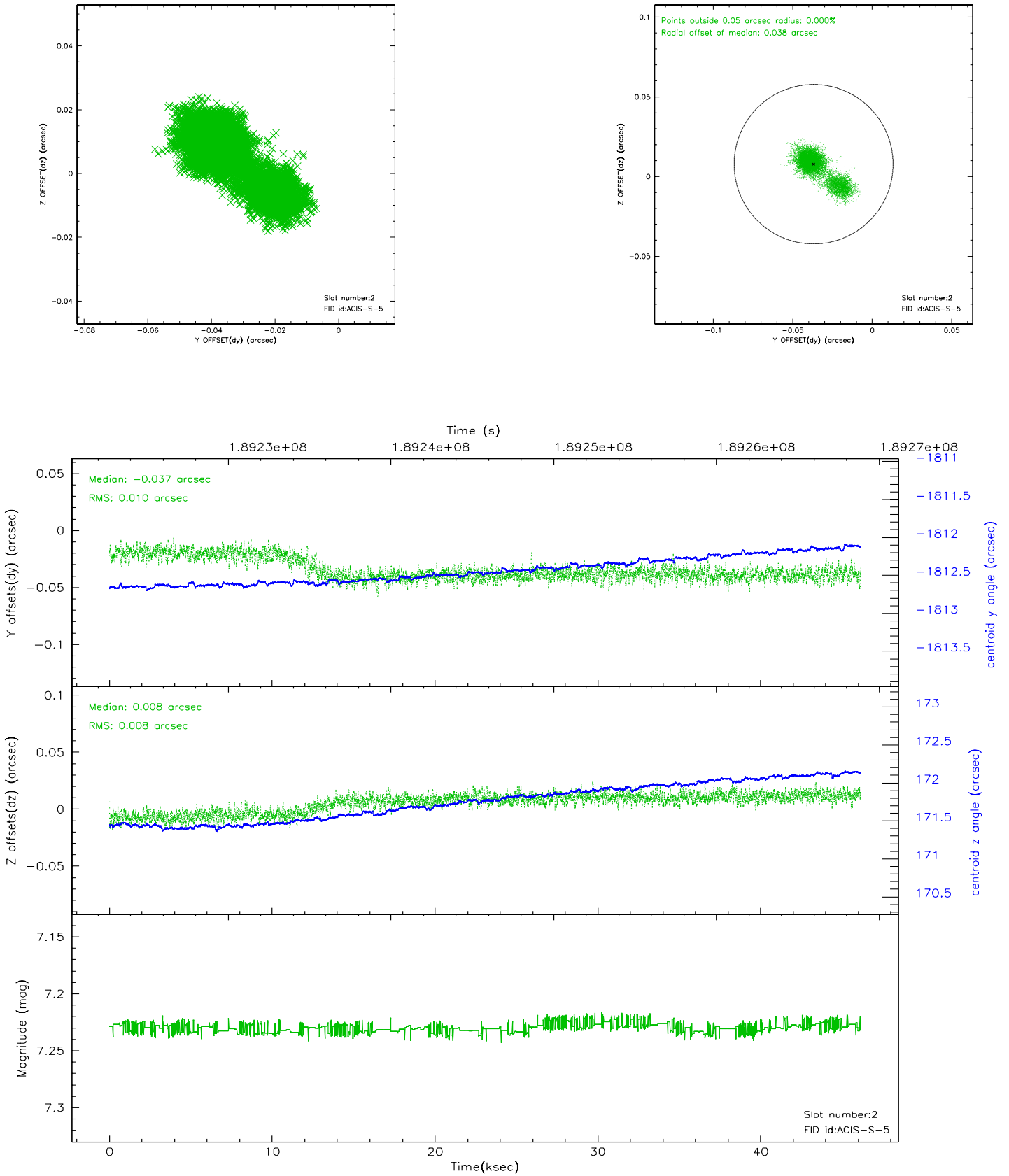
### 2.5.1 Slot 0



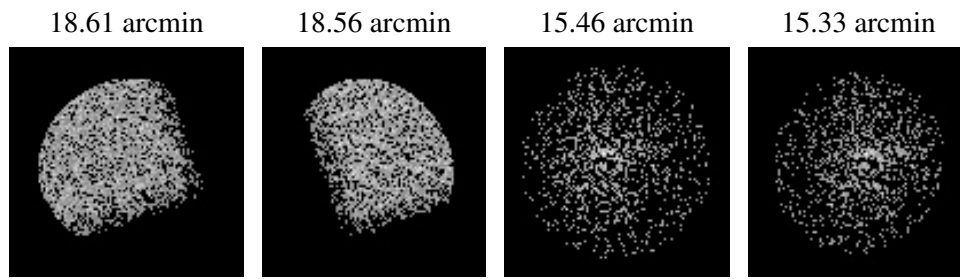
## 2.5.2 Slot 1



### 2.5.3 Slot 2



### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	46.172

## A.2 Comments

On day 356 at about 00:30, the OBA heater stuck in the 'on' position. This situation affected obsid 4901 and all subsequent observations to this point. The result of this anomaly could be a displacement of the target on the chip in the z direction. The displacement will be small because everything is still within spec, but the target may be spatially displaced, have a different point spread function, or trail across the chip.