

# V&V Reference Report

## L2 ASCDS Version : 7.6.8

Observation 4498 - L2 Version 001  
Chandra X-Ray Center

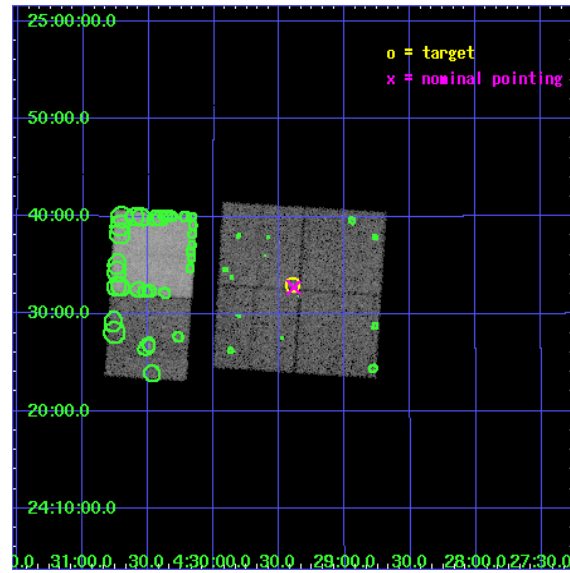
L2 Processing Date : Jun 22 2006

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# 1 Front

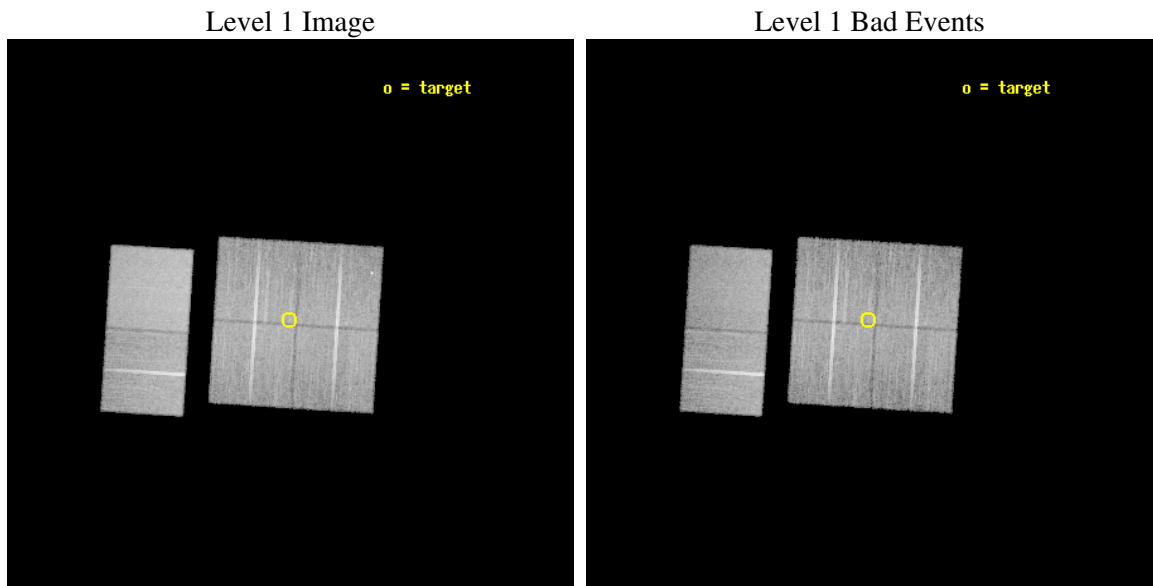
seq_num	200267
obs_id	4498
title	Exploring X-rays in protostellar jets
observer	Dr. Bo Reipurth
object	HH 184
dtcycle	0
cycle	P
ra_targ	67.34875
dec_targ	24.55
ra_nom	67.347082348743
dec_nom	24.545630169538
roll_nom	273.64650498888
revision	2
ontime	24963.199907005
livetime	24647.100838748
ontime0	24963.199907005
ontime1	24959.958996356
ontime2	24963.199907005
ontime3	24963.199907005
ontime6	24963.199907005
ontime7	24963.199907005
l2events	155264



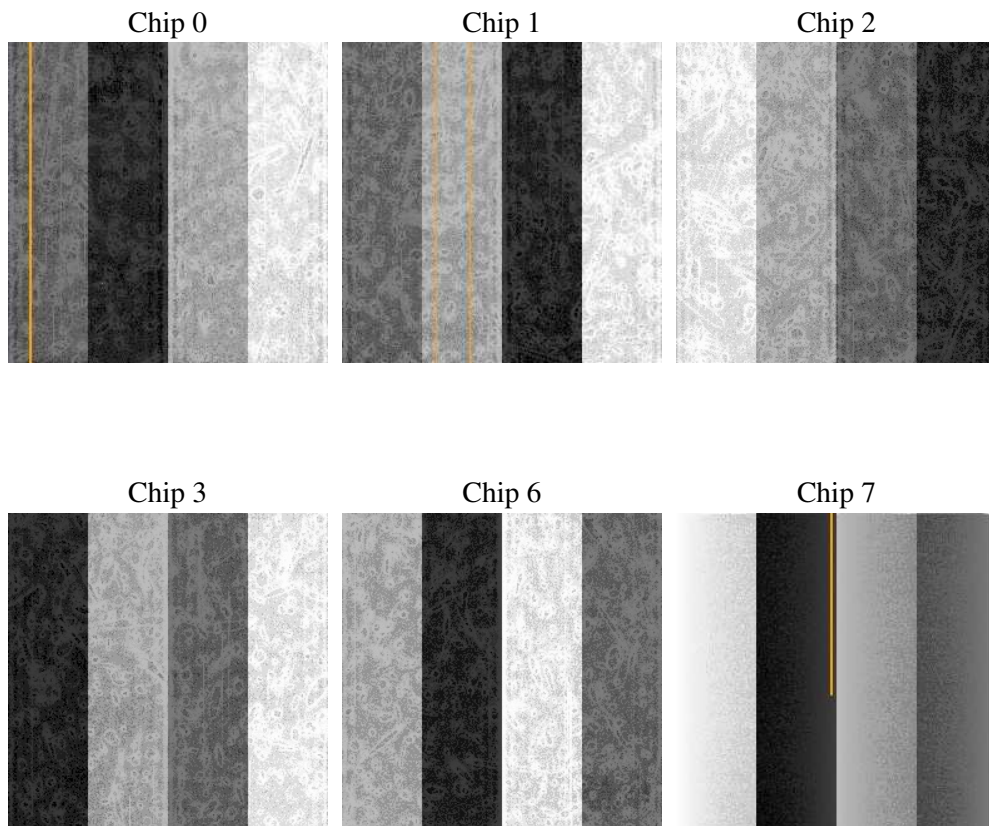
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.8
caldsver	3.2.2
date	2006-06-22T13:28:57
revision	2

sched_exp_time	25000.000000
ontime	24968.747075915
ontime0	24968.747075915
ontime1	24965.506165266
ontime2	24968.747075915
ontime3	24968.747075915
ontime6	24968.747075915
ontime7	24968.747075915
l1events	945980

### 2.1.4 Events

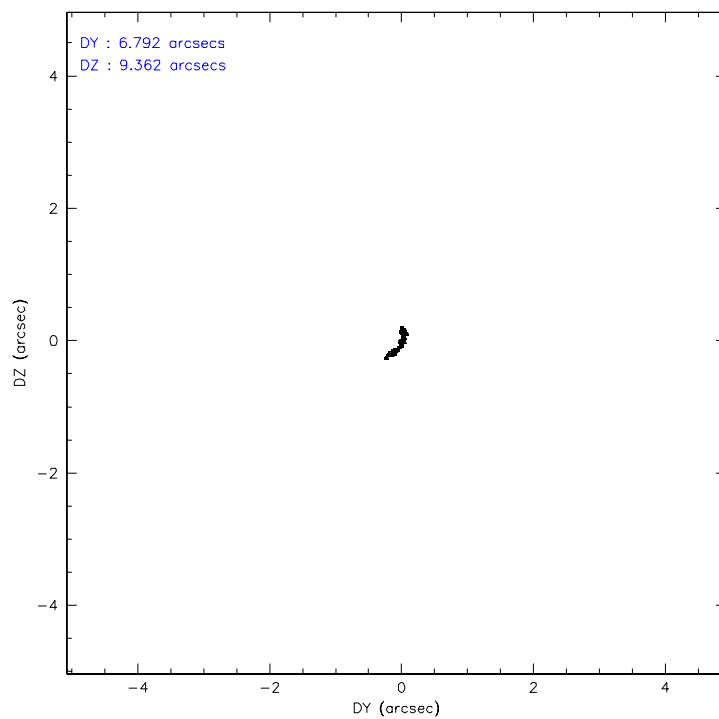
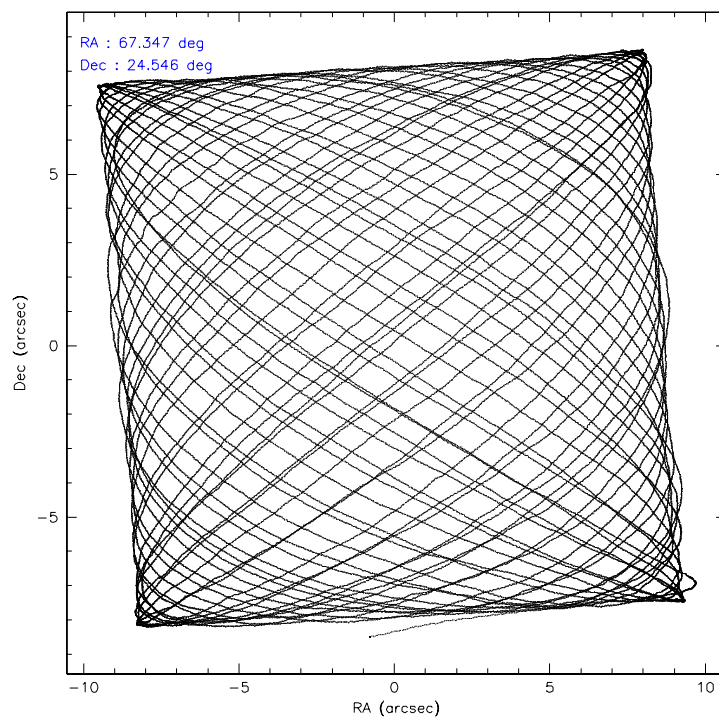
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	138305	143510	148360	149216	158929	207660
rejected events	120161	123822	130607	131487	140705	129531
rejected %	86%	86%	88%	88%	88%	62%

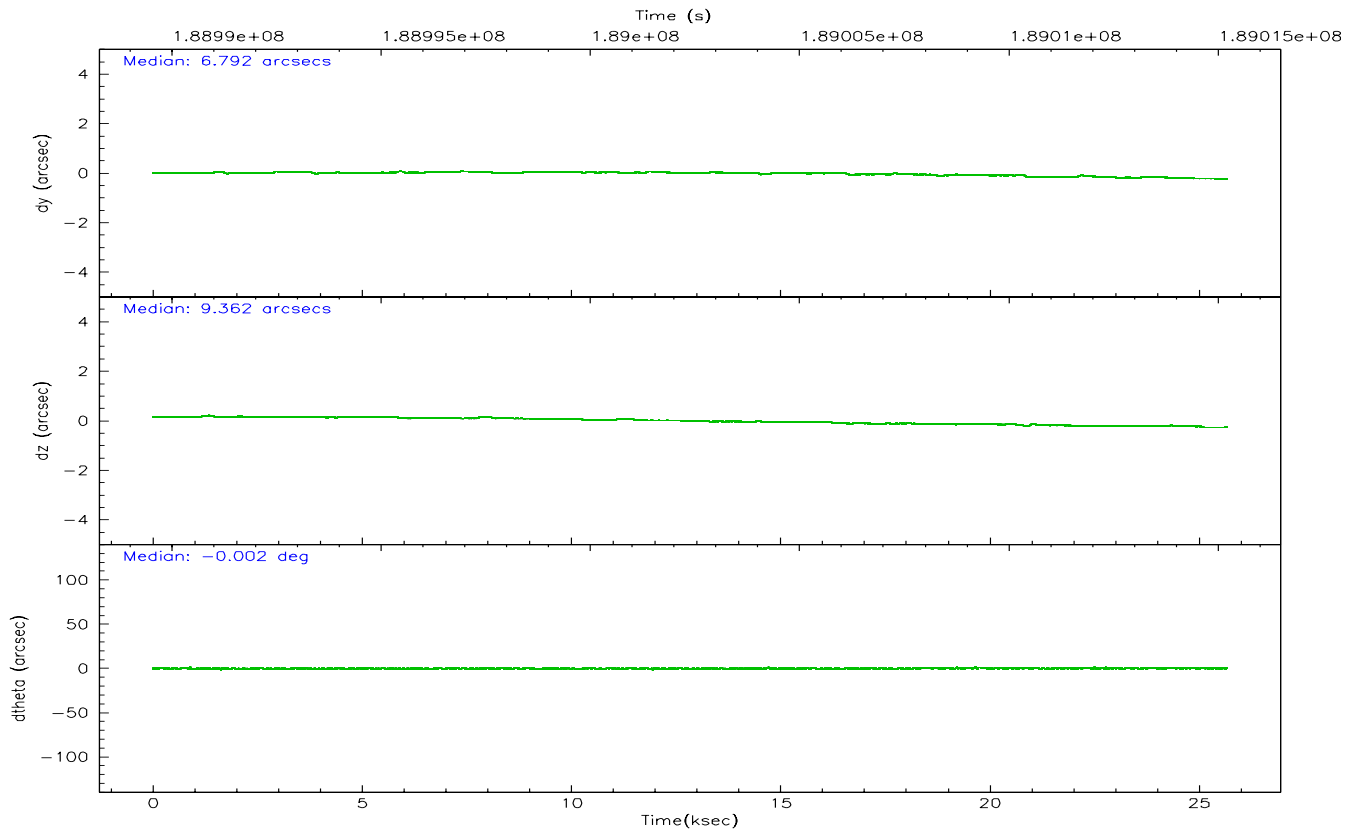
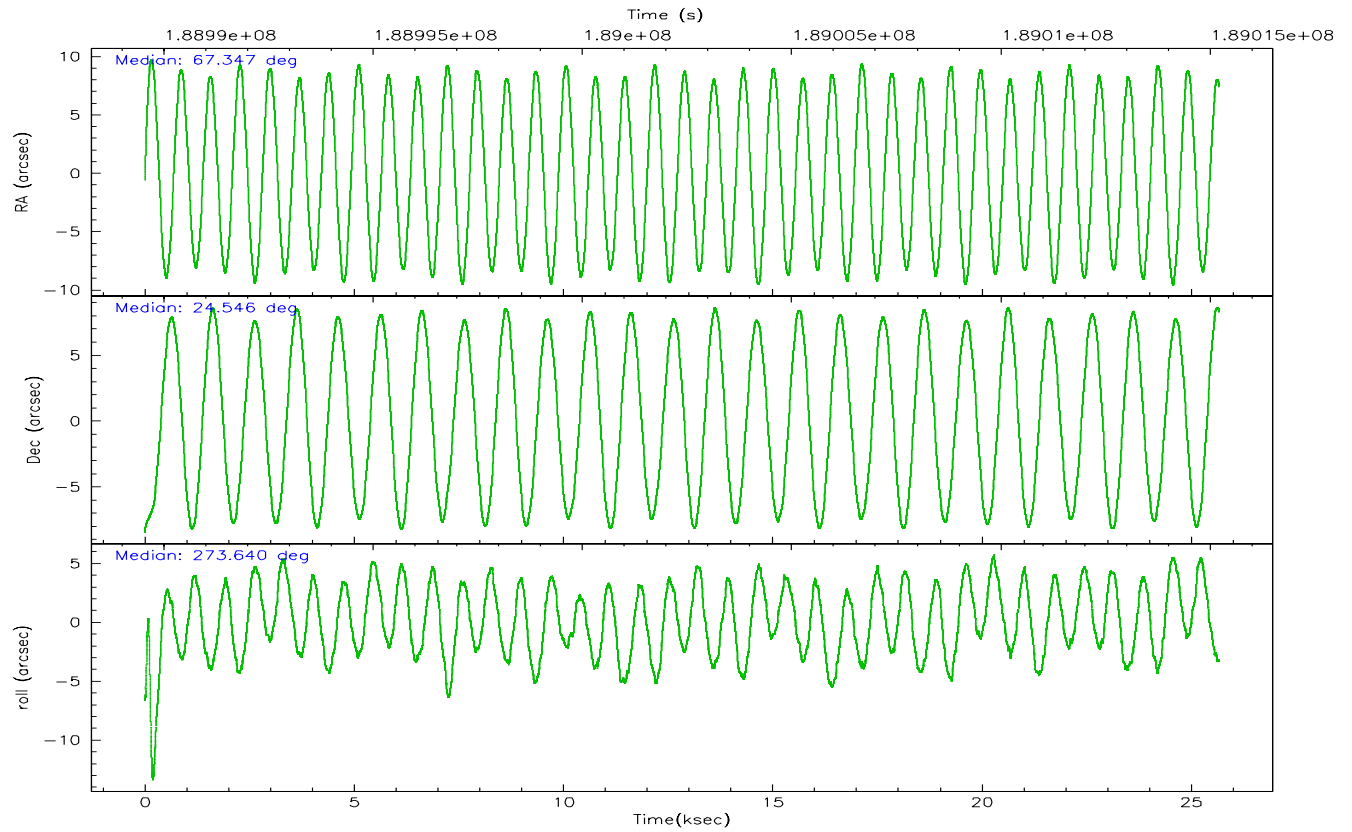
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	7583	7873	7660	7607	7114	4182
	5%	5%	5%	5%	4%	2%
grade 1 events	92	78	80	73	89	137
	0%	0%	0%	0%	0%	0%
grade 2 events	3745	4162	3546	3439	3776	19220
	2%	2%	2%	2%	2%	9%
grade 3 events	1812	1919	1786	1730	1914	3904
	1%	1%	1%	1%	1%	1%
grade 4 events	1688	1878	1744	1753	1700	3832
	1%	1%	1%	1%	1%	1%
grade 5 events	6332	6632	5994	6852	7501	14129
	4%	4%	4%	4%	4%	6%
grade 6 events	3318	3862	3024	3202	3727	47011
	2%	2%	2%	2%	2%	22%
grade 7 events	113735	117106	124526	124560	133108	115245
	82%	81%	83%	83%	83%	55%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	67.330282	67.34708234874316	Alternating exposures requested	N	N
Pointing Dec	24.568359	24.54563016953838	Primary exposure time	0.000000	3.2
Pointing Roll	273.444810	273.6465049888757			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-233.592463	-233.5874344608287			
SIM translation stage offset (mm)	0	-0.005018542100998502			
Observation start time	188990220.184000	188989017.18433			
Observation start date	2003-12-28T09:15:56	2003-12-28T08:56:57			
Observation end time	189015220.184000	189016679.88553			
Observation end date	2003-12-28T16:12:36	2003-12-28T16:37:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect



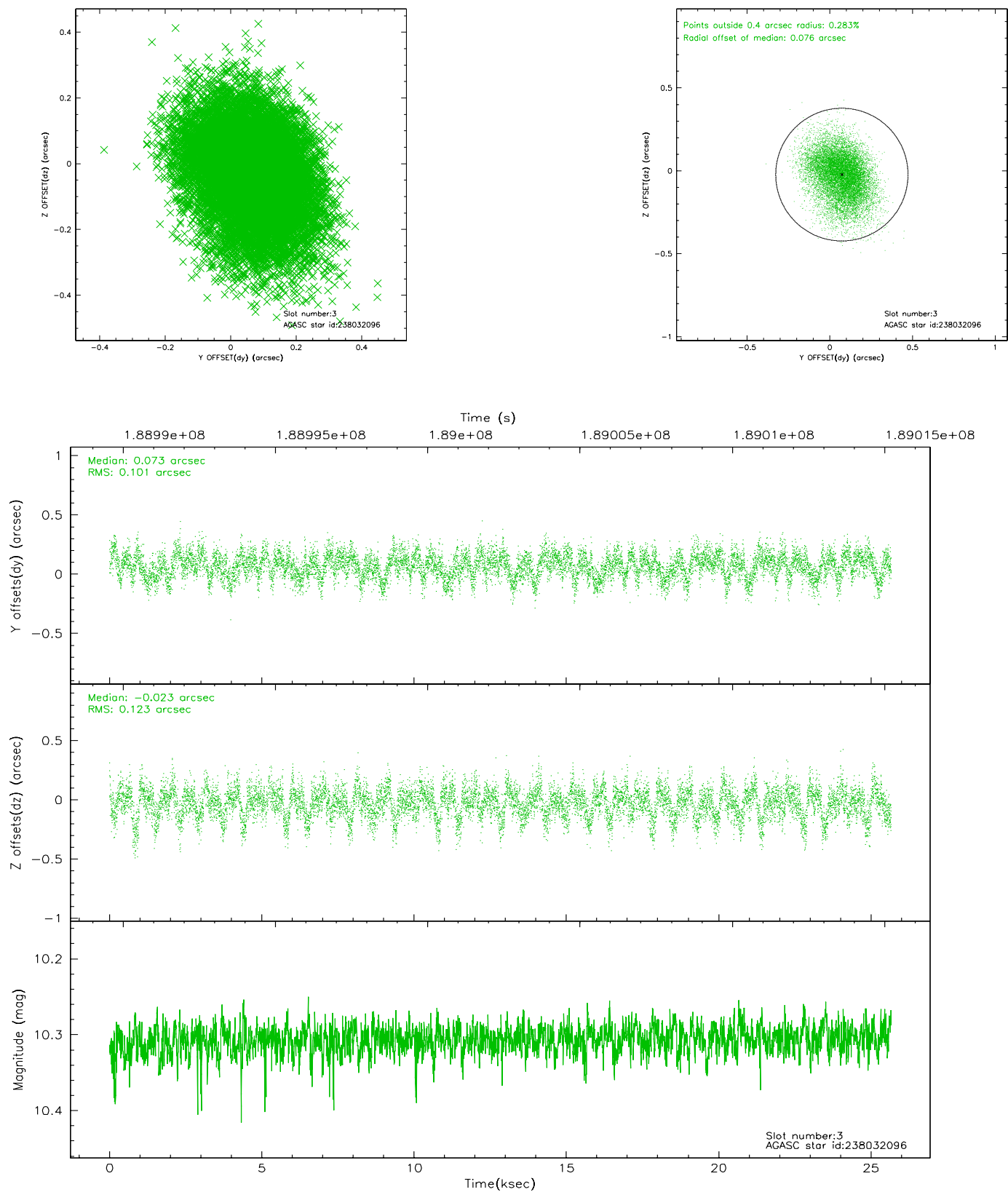


### Slot Statistics

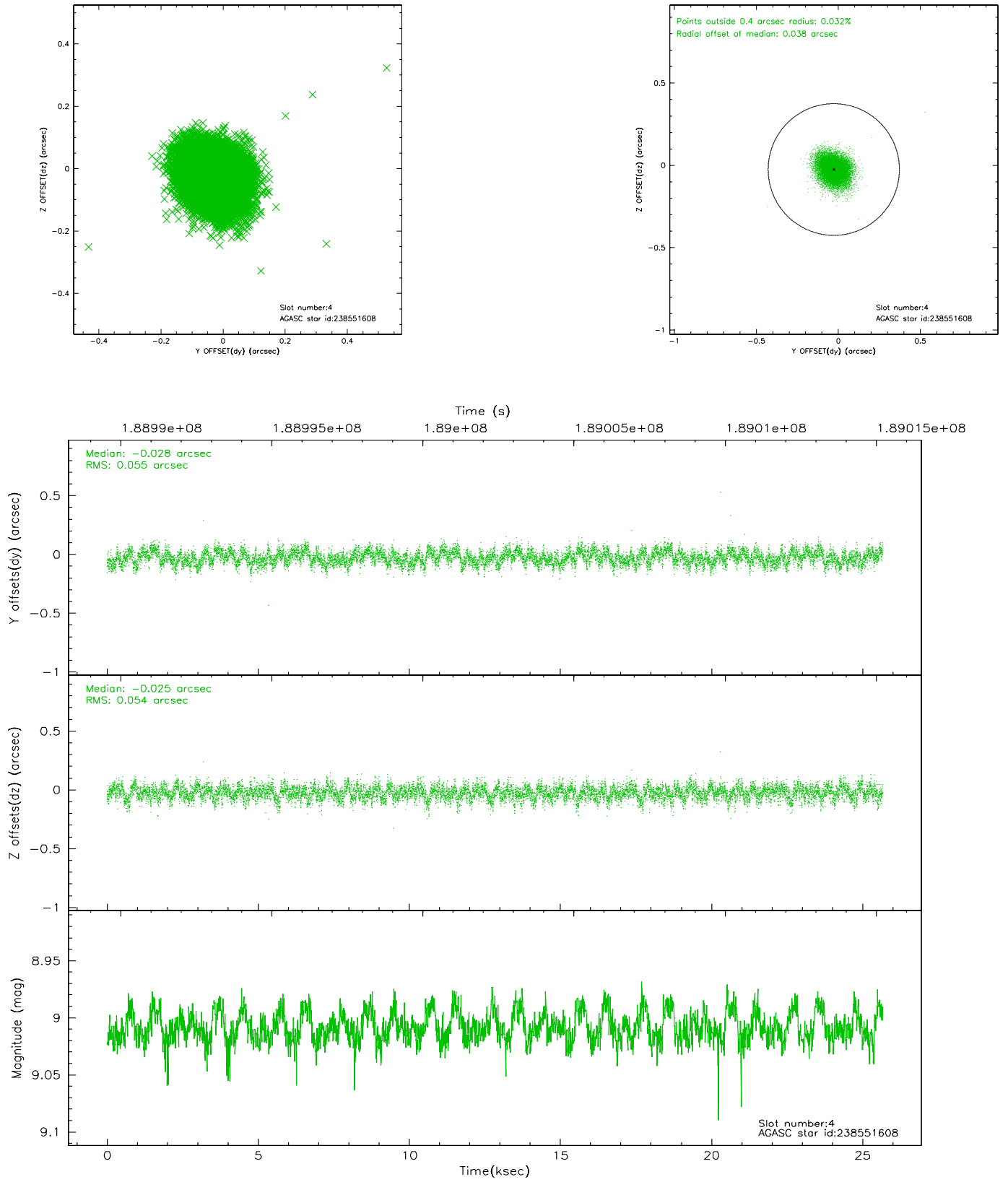
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.24	6258	-0.031	0.077	0.006	0.011	0.000000	0.000000	932.90	-832.73
1	FID	ACIS-I-5	7.23	6259	-0.099	0.016	0.006	0.010	0.000000	0.000000	-1815.22	1064.64
2	FID	ACIS-I-6	7.26	6260	0.039	-0.022	0.008	0.013	0.000000	0.000000	398.38	1709.24
3	GUIDE	238032096	10.31	12346	0.073	-0.023	0.168	0.277	66.802029	24.369947	606.29	-1771.52
4	GUIDE	238551608	9.01	12519	-0.028	-0.025	0.081	0.131	66.891877	25.061588	-1860.14	-1320.43
5	GUIDE	239731088	7.49	12521	-0.058	-0.010	0.050	0.082	67.084109	24.117817	1570.00	-904.50
6	GUIDE	239731296	8.83	12518	0.033	0.004	0.063	0.105	67.110301	24.149622	1461.38	-811.64
7	GUIDE	240262776	8.52	12518	-0.023	0.062	0.083	0.140	67.818644	25.030457	-1567.21	1690.13

## 2.4 Star Slots

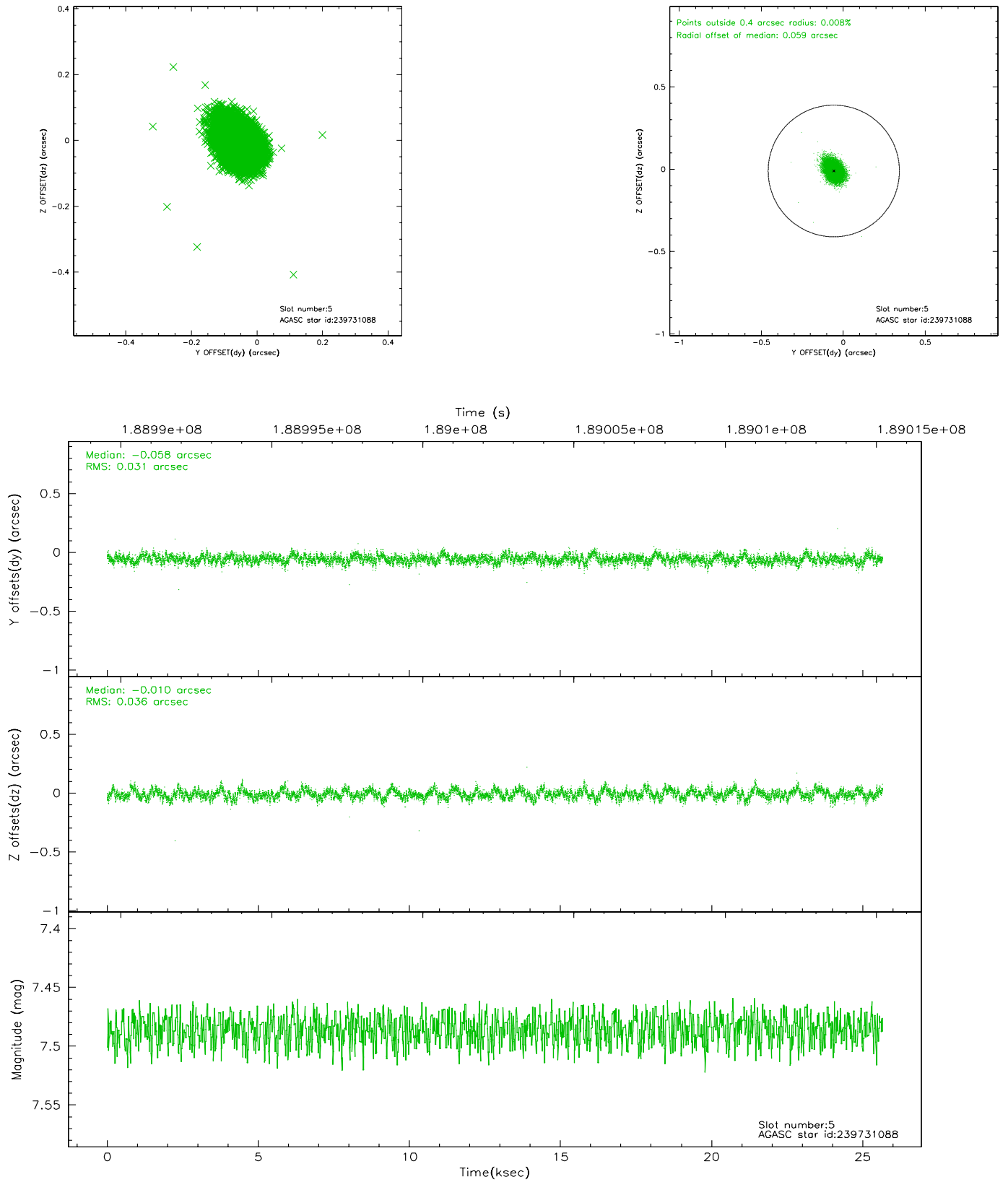
### 2.4.1 Slot 3



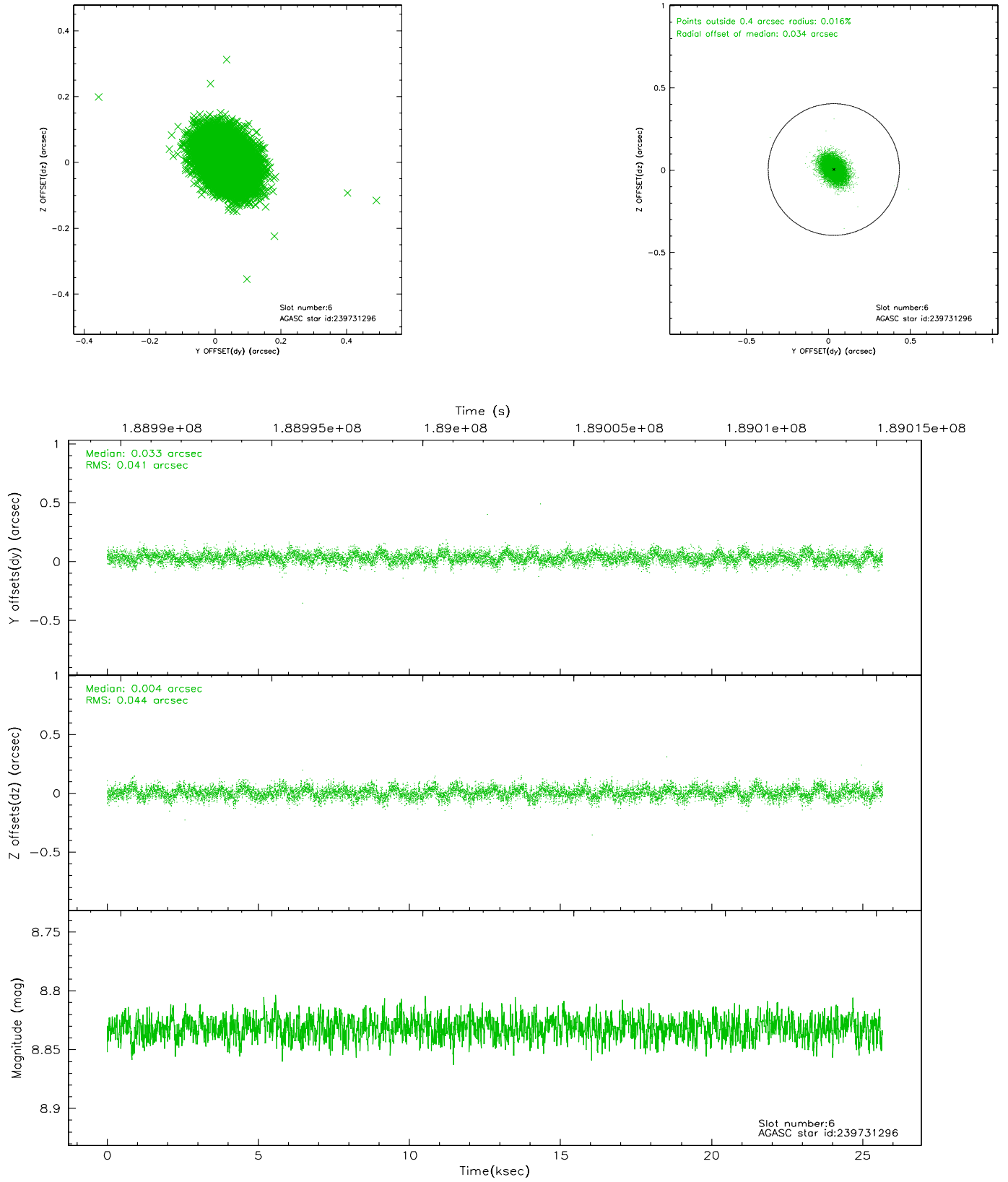
## 2.4.2 Slot 4



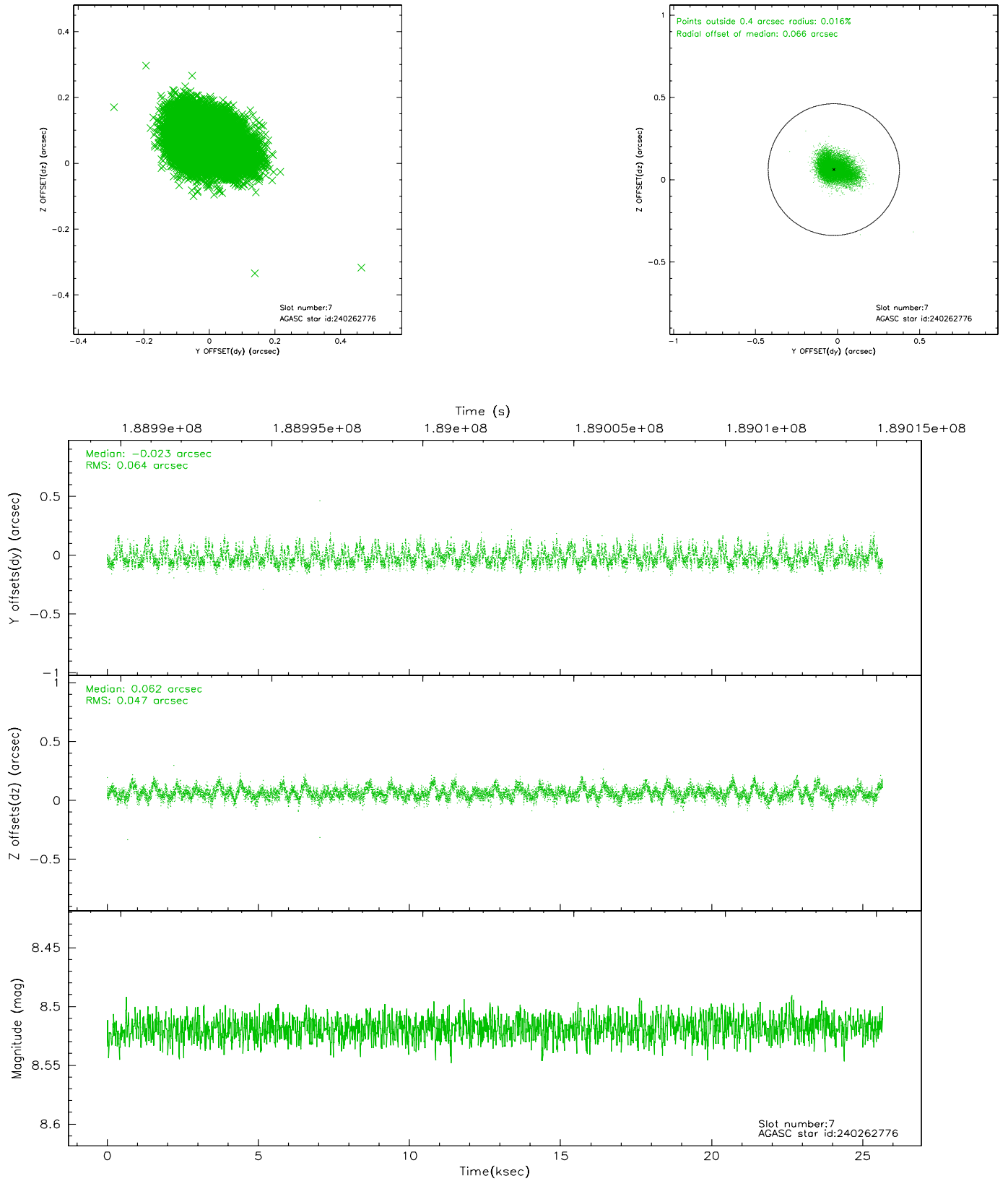
### 2.4.3 Slot 5



## 2.4.4 Slot 6

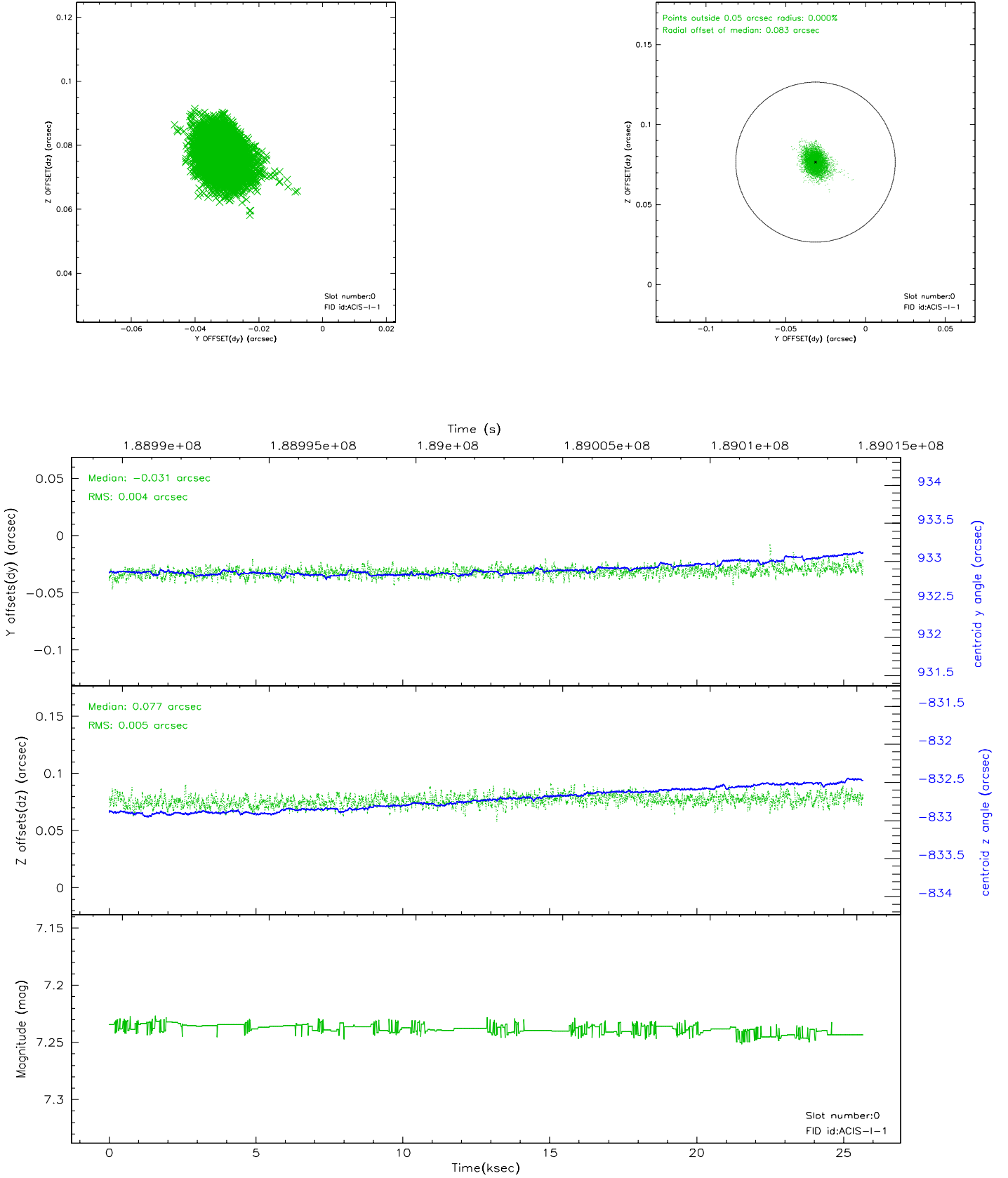


## 2.4.5 Slot 7

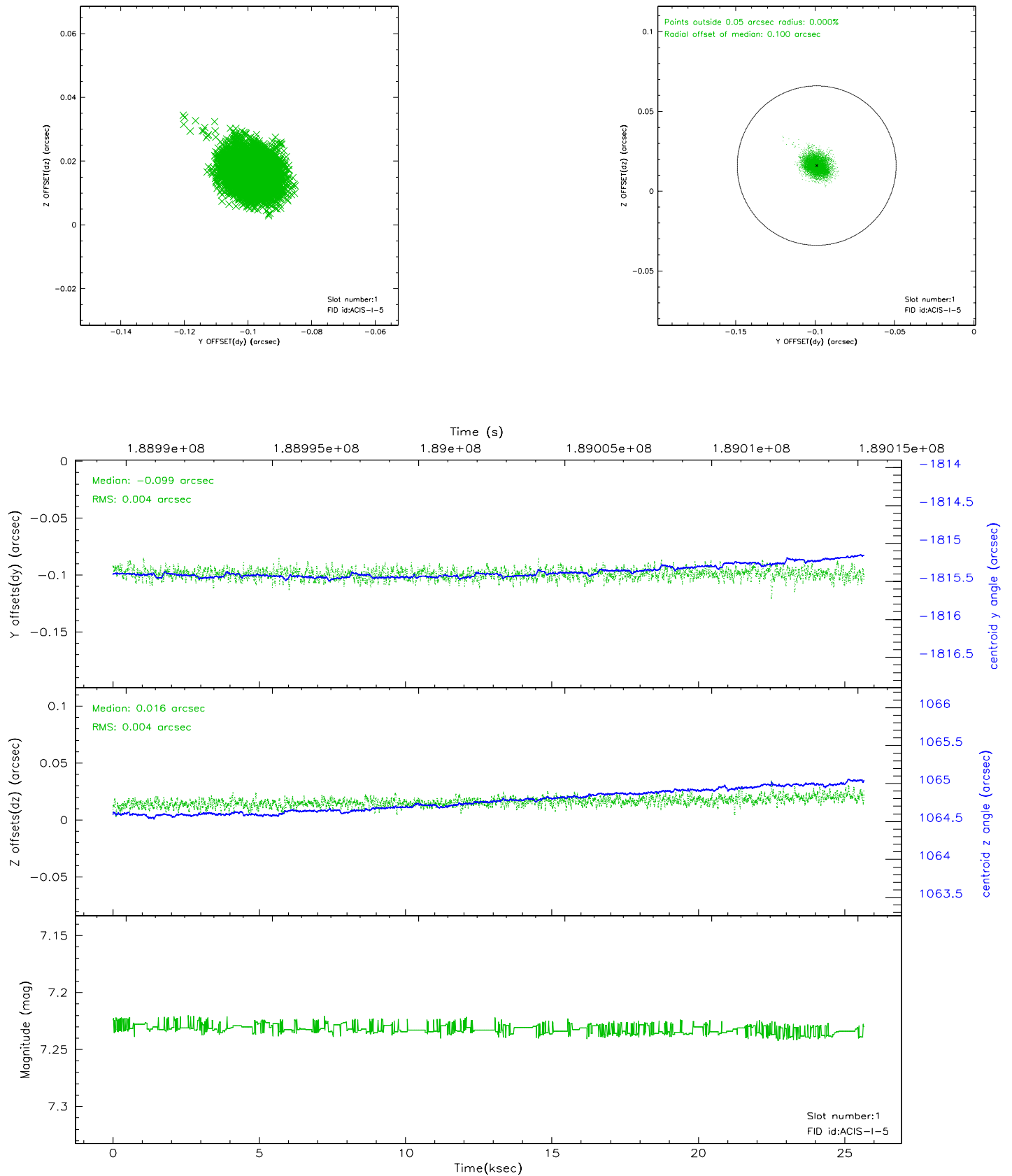


## 2.5 FID Slots

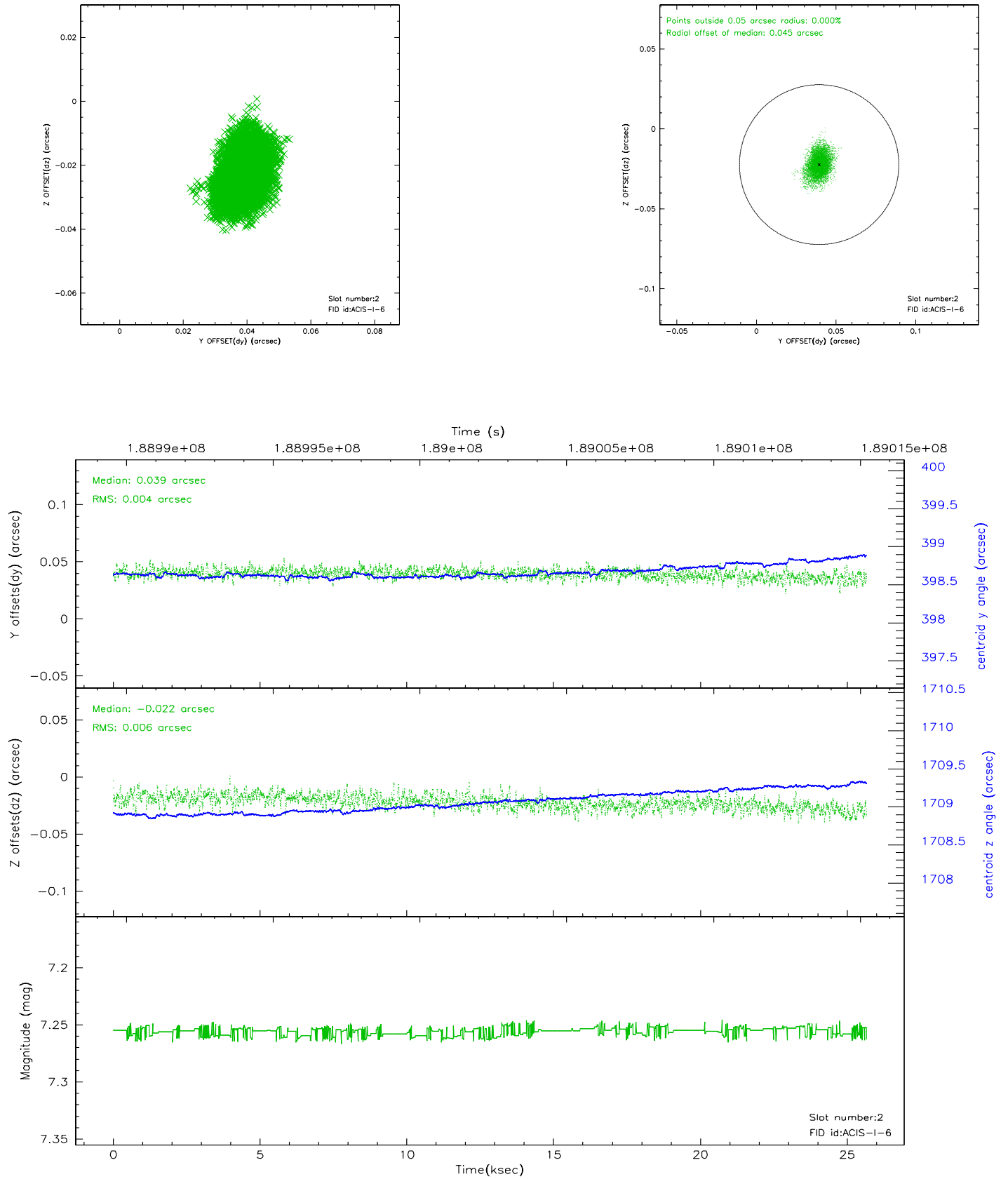
### 2.5.1 Slot 0



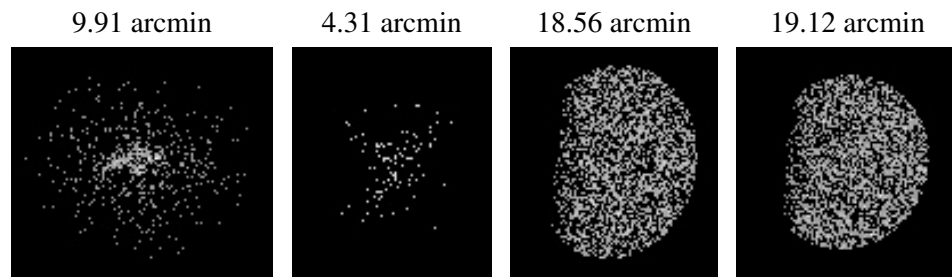
## 2.5.2 Slot 1



### 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	24.966

## 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.