

# V&V Reference Report

## L2 ASCDS Version : 7.6.8.1

Observation 2865 - L2 Version 001  
Chandra X-Ray Center

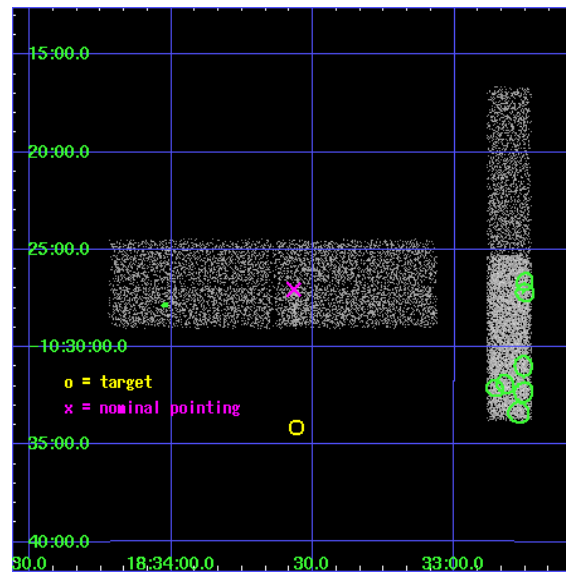
L2 Processing Date : Sep 6 2006

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# 1 Front

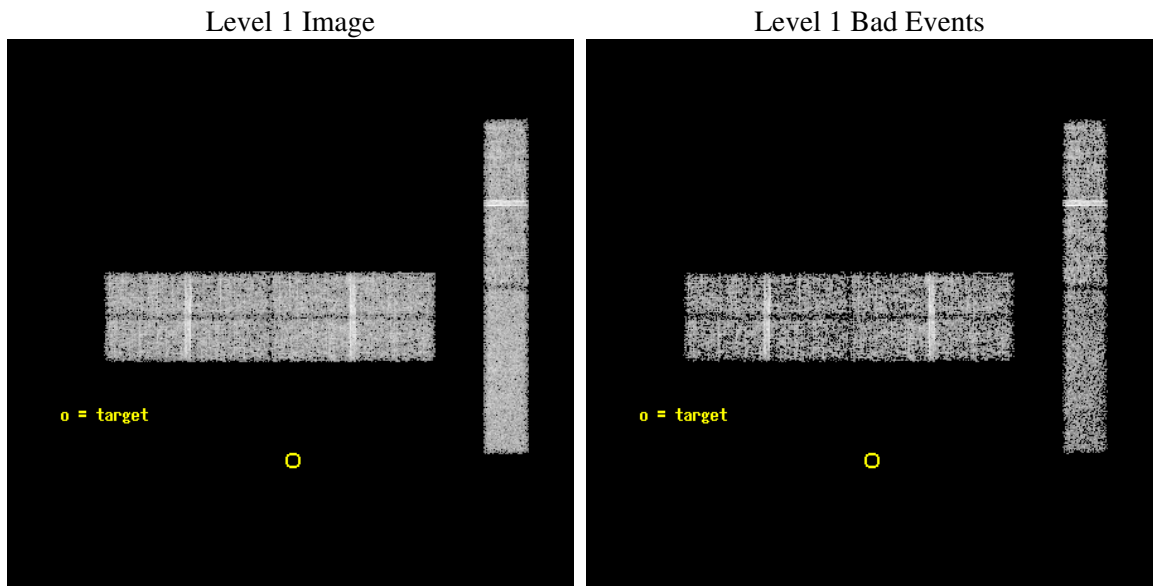
seq_num	590254
obs_id	2865
title	AO3A CALIBRATION OBSERVATIONS THE STANDARD CANDLES CAS A AND G21.5-09
observer	Dr. CXC Calibration
object	G21.5-0.9 [Chip I3, T=120, outer nebula]
dtcycle	0
cycle	P
ra_targ	278.389583
dec_targ	-10.568528
ra_nom	278.39184393113
dec_nom	-10.450864106941
roll_nom	90.002456737876
revision	2
ontime	10108.800025105
liveltime	9774.5117241399
ontime0	10108.800025105
ontime1	10108.800025105
ontime2	10108.800025105
ontime3	10108.800025105
ontime6	10108.800025105
ontime7	10108.800025105
l2events	18609



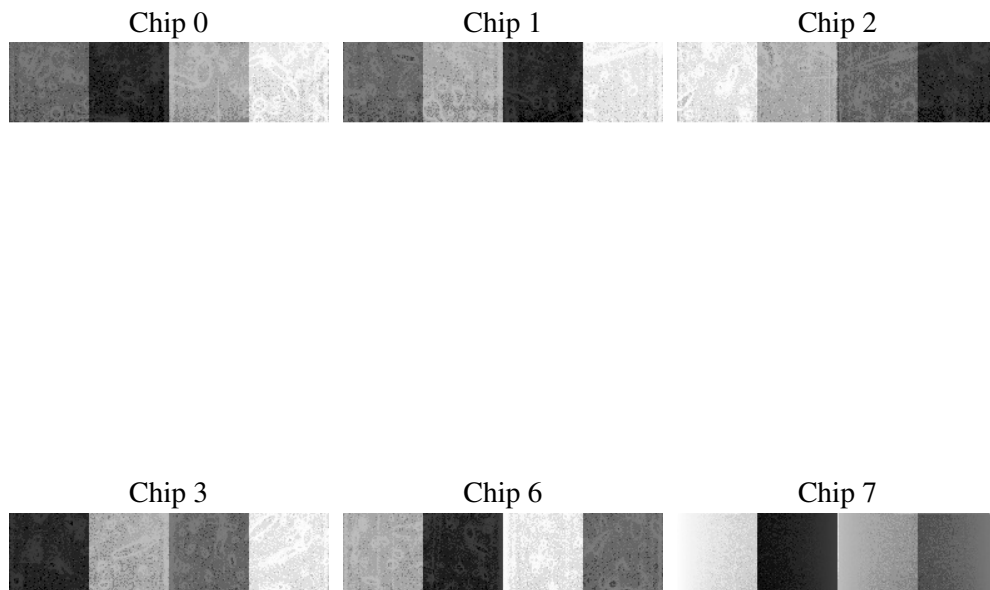
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1
ascdsver	7.6.8.1
caldsver	3.2.3
date	2006-09-06T18:30:29
revision	2

sched_exp_time	9600.000000
ontime	10110.623839498
ontime0	10110.623839498
ontime1	10110.623839498
ontime2	10110.623839498
ontime3	10110.623839498
ontime6	10110.623839498
ontime7	10110.623839498
l1events	126076

### 2.1.4 Events

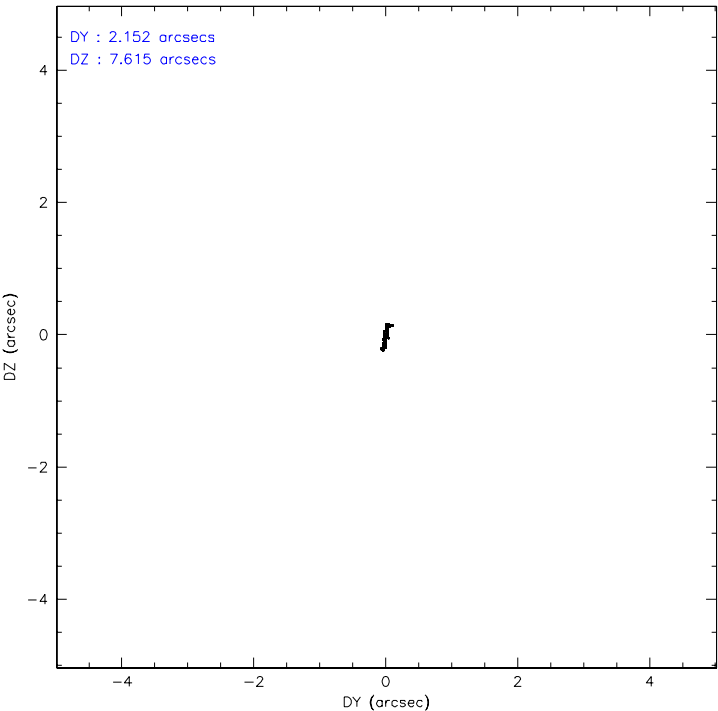
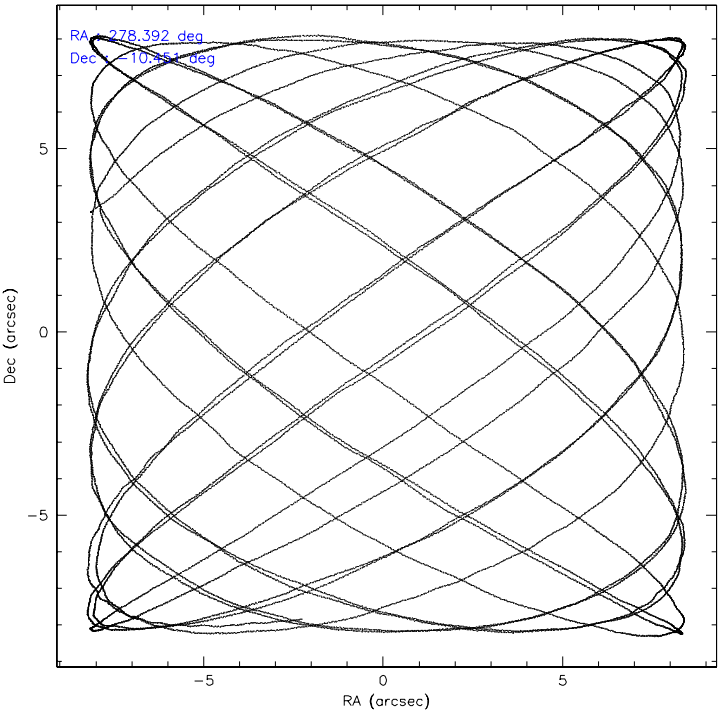
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	18740	19483	20726	20894	22949	23284
rejected events	16388	17030	18202	18257	20553	14580
rejected %	87%	87%	87%	87%	89%	62%

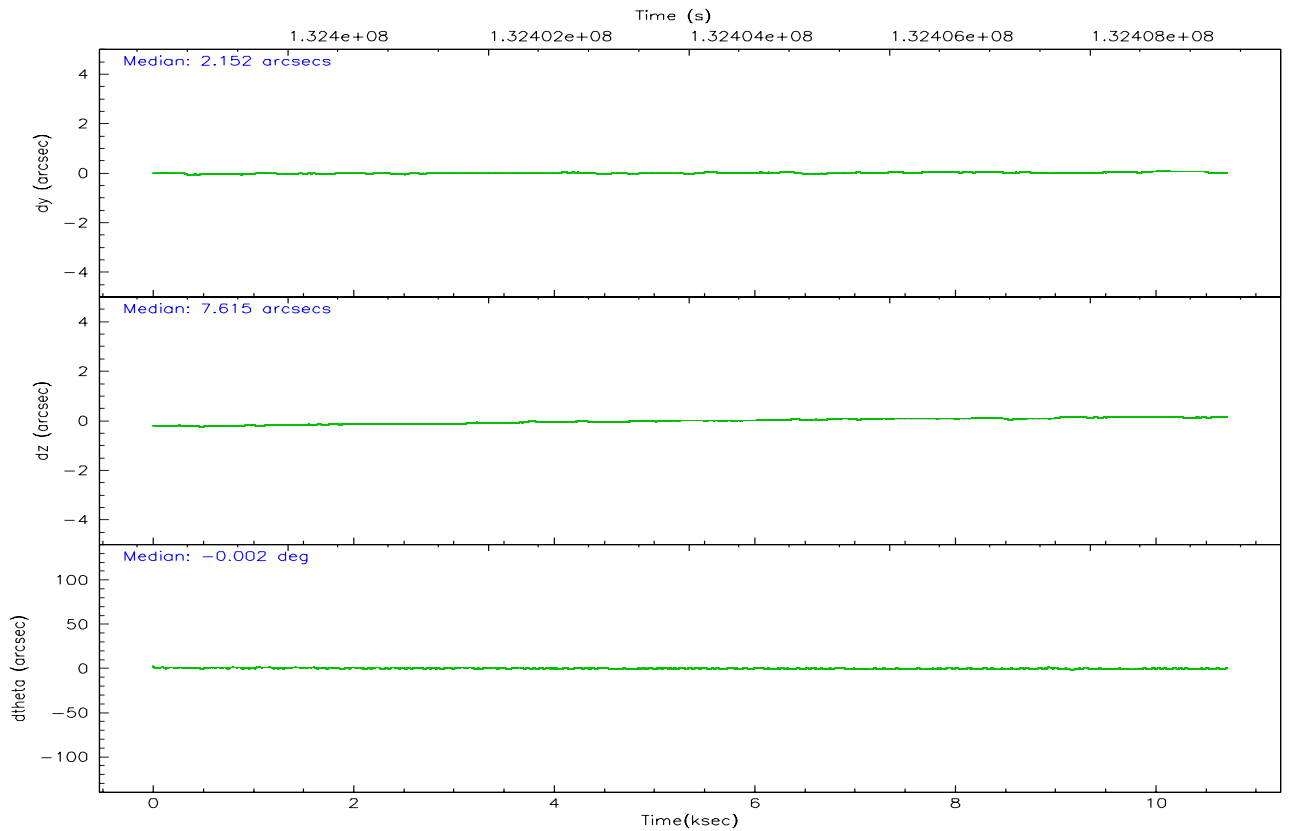
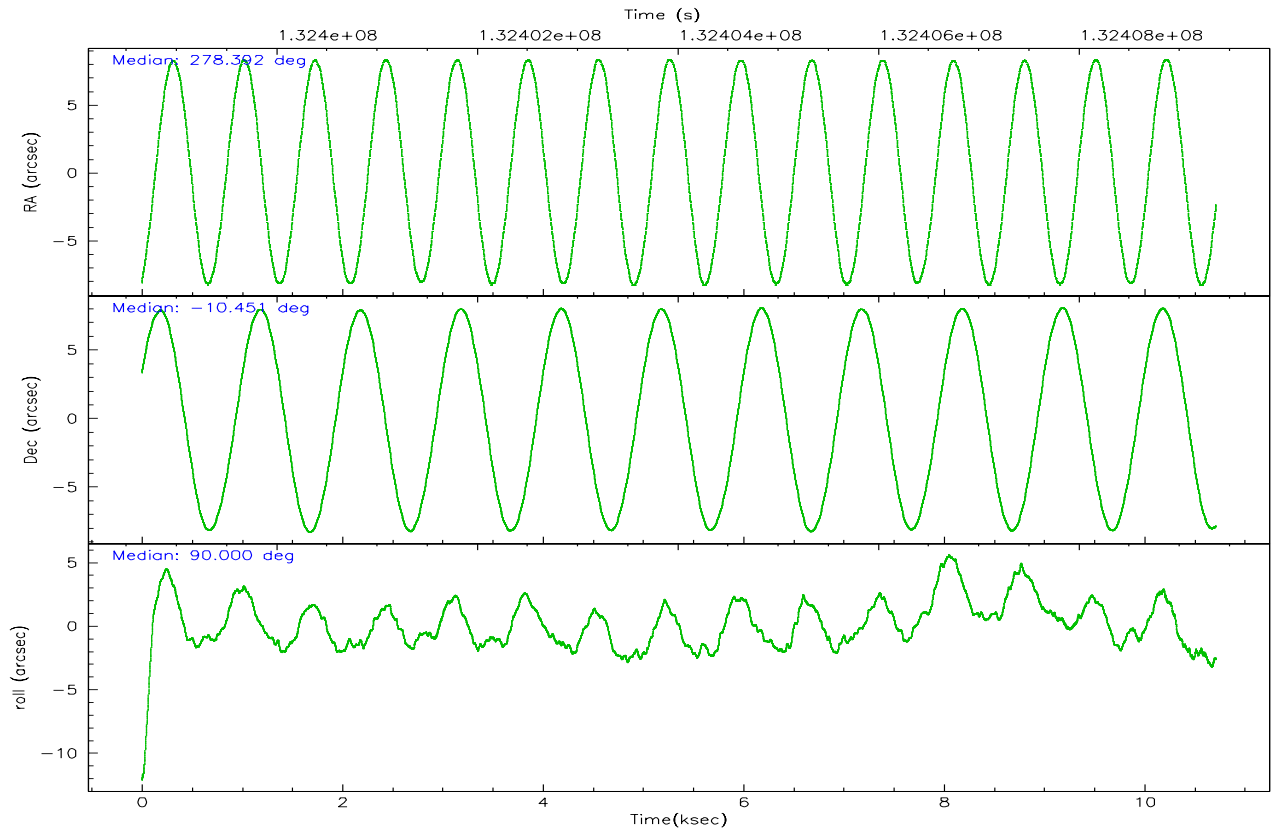
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	984	959	1074	1170	894	487
	5%	4%	5%	5%	3%	2%
grade 1 events	18	16	10	18	16	31
	0%	0%	0%	0%	0%	0%
grade 2 events	455	487	472	495	461	2312
	2%	2%	2%	2%	2%	9%
grade 3 events	294	291	286	315	319	488
	1%	1%	1%	1%	1%	2%
grade 4 events	265	289	320	295	273	441
	1%	1%	1%	1%	1%	1%
grade 5 events	666	745	670	753	854	1406
	3%	3%	3%	3%	3%	6%
grade 6 events	354	427	372	362	449	4980
	1%	2%	1%	1%	1%	21%
grade 7 events	15704	16269	17522	17486	19683	13139
	83%	83%	84%	83%	85%	56%

## 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	1/4	1/4
Pointing RA	278.405857	278.3918439311299	Subarray start row	0	769
Pointing Dec	-10.474584	-10.45086410694093	Subarray row count	1024	256
Pointing Roll	89.796313	90.00245673787602	Alternating exposures requested	N	N
Window start time	131328064.184000	131328064.184000	Primary exposure time	0.000000	1.2
Window stop time	133920064.184000	133920064.184000			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.001439871863259334			
SIM translation stage pos (mm)	-232.092463	-232.0989598023052			
SIM translation stage offset (mm)	-1.5	-1.493493200624528			
Observation start time	132399768.184000	132398342.51058			
Observation start date	2002-03-13T09:41:44	2002-03-13T09:19:02			
Observation end time	132409368.184000	132410114.12356			
Observation end date	2002-03-13T12:21:44	2002-03-13T12:35:14			
Read mode	TIMED	TIMED			

2.3 Aspect





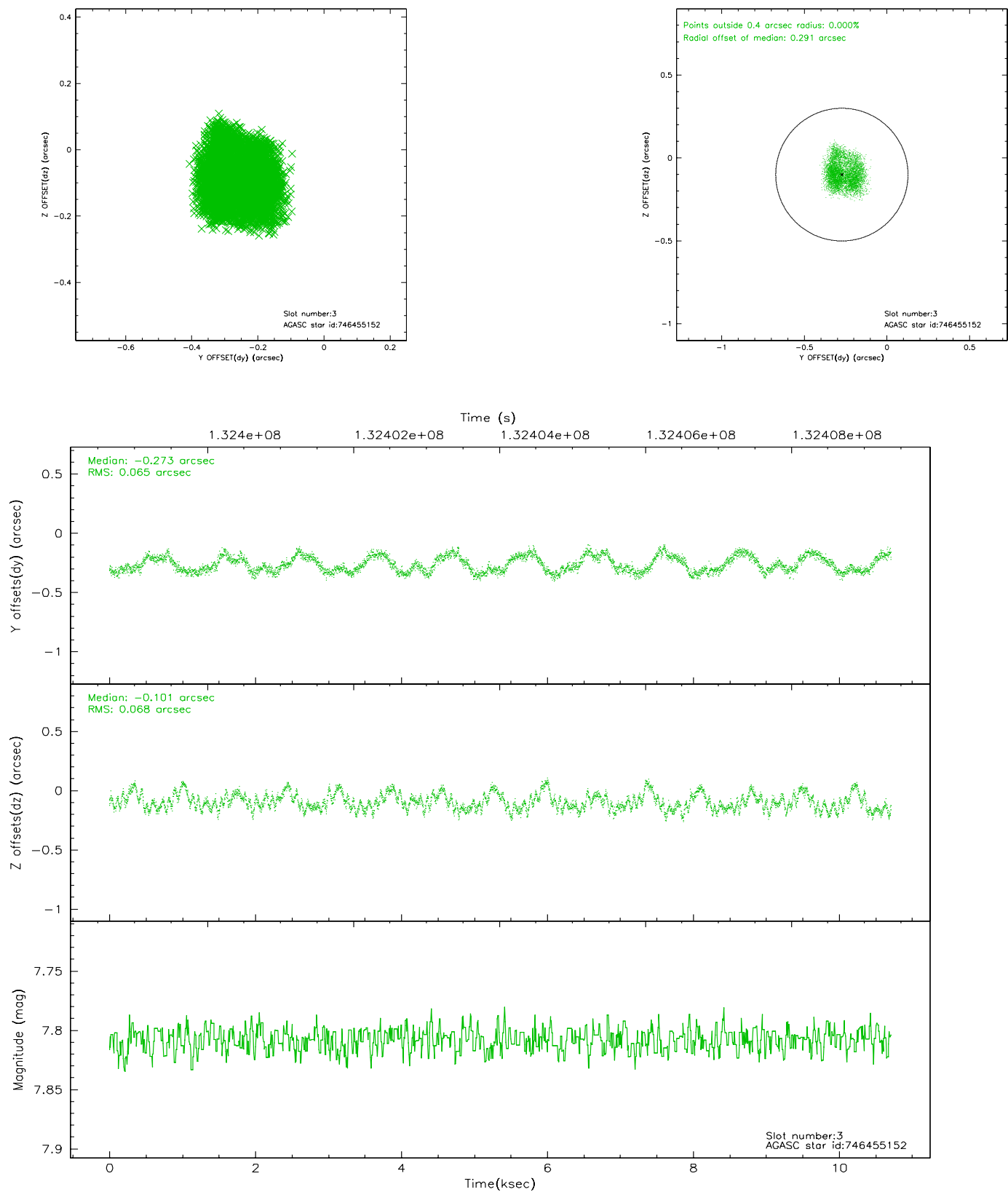
### Slot Statistics

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	2614	-0.036	0.116	0.007	0.013	0.000000	0.000000	937.59	-861.48
1	FID	ACIS-I-5	7.23	2614	-0.034	0.040	0.006	0.011	0.000000	0.000000	-1810.23	1035.70
2	FID	ACIS-I-6	7.25	2614	-0.022	-0.086	0.007	0.012	0.000000	0.000000	402.64	1680.61
3	GUIDE	746455152	7.81	5227	-0.273	-0.101	0.104	0.149	278.447893	-9.976732	1792.86	-143.17
4	GUIDE	746462392	8.54	5225	0.120	0.086	0.107	0.159	279.038421	-10.890715	-1491.98	-2242.34
5	GUIDE	746455112	8.93	5225	0.129	-0.048	0.111	0.171	278.266531	-10.703234	-824.78	488.81
6	GUIDE	746460328	9.77	5221	-0.092	-0.032	0.322	0.461	278.603974	-9.898096	2077.55	-695.57
7	GUIDE	746461728	9.77	5225	0.135	0.092	0.134	0.216	278.986921	-10.530755	-195.85	-2057.83

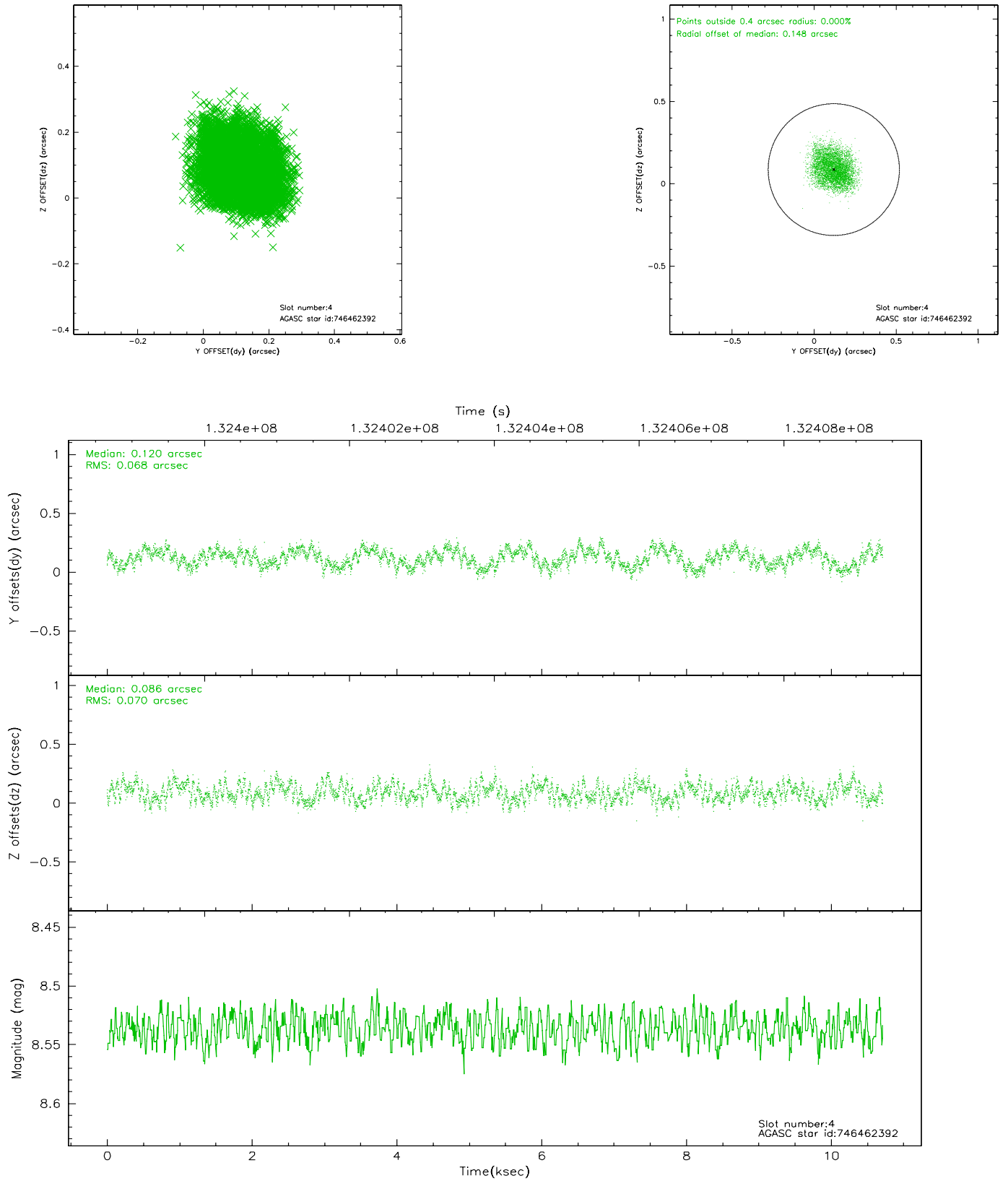


## 2.4 Star Slots

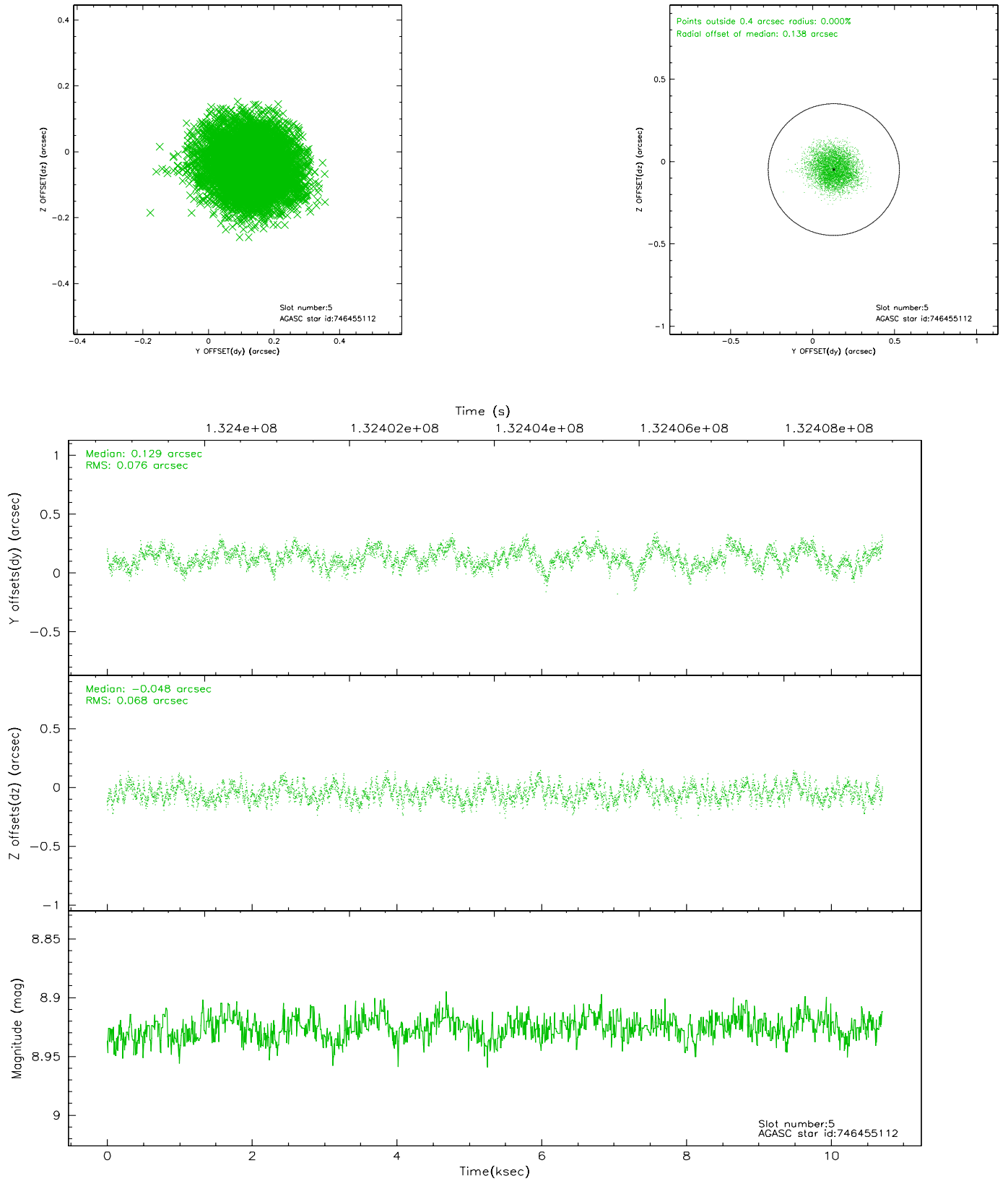
### 2.4.1 Slot 3



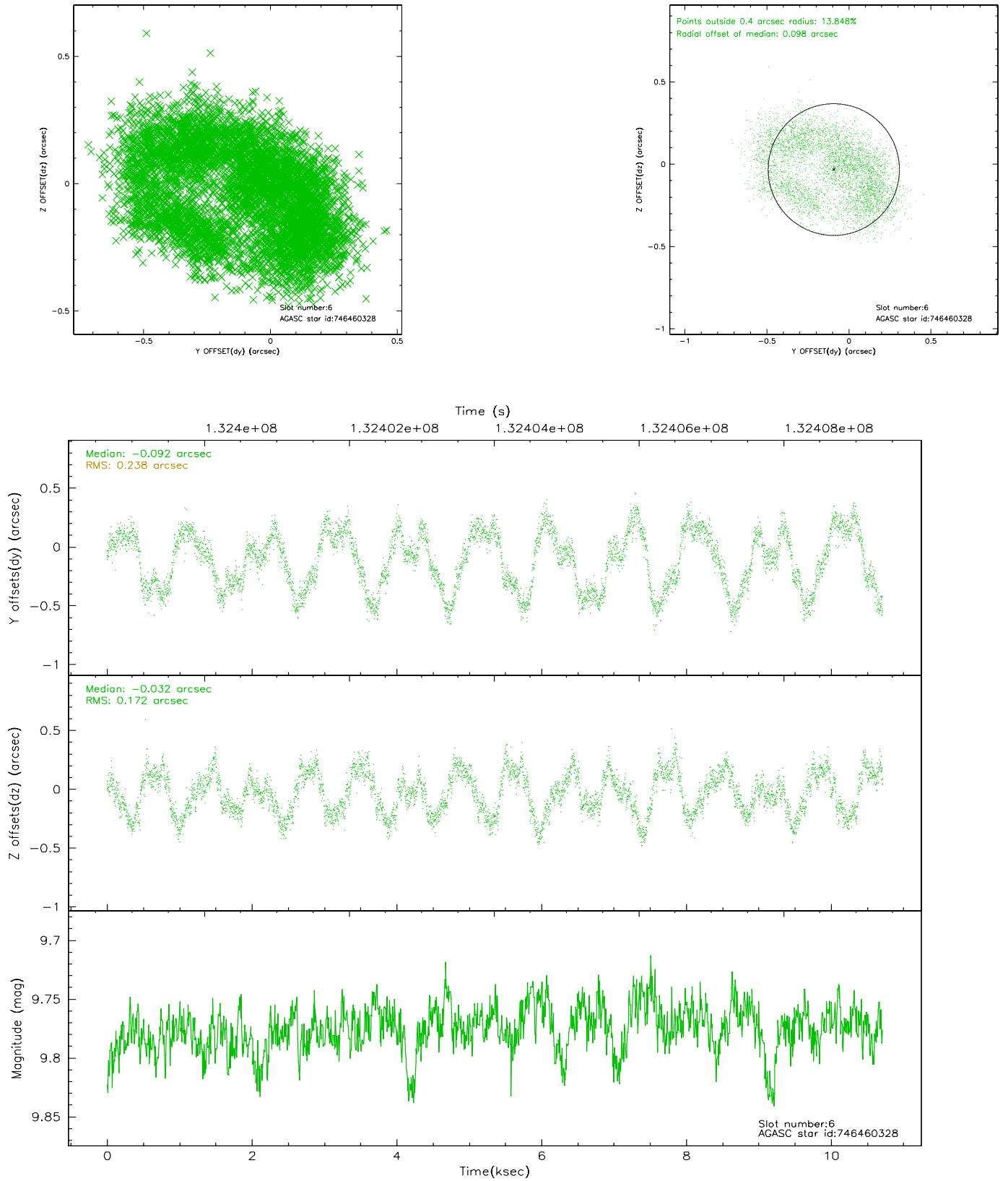
## 2.4.2 Slot 4



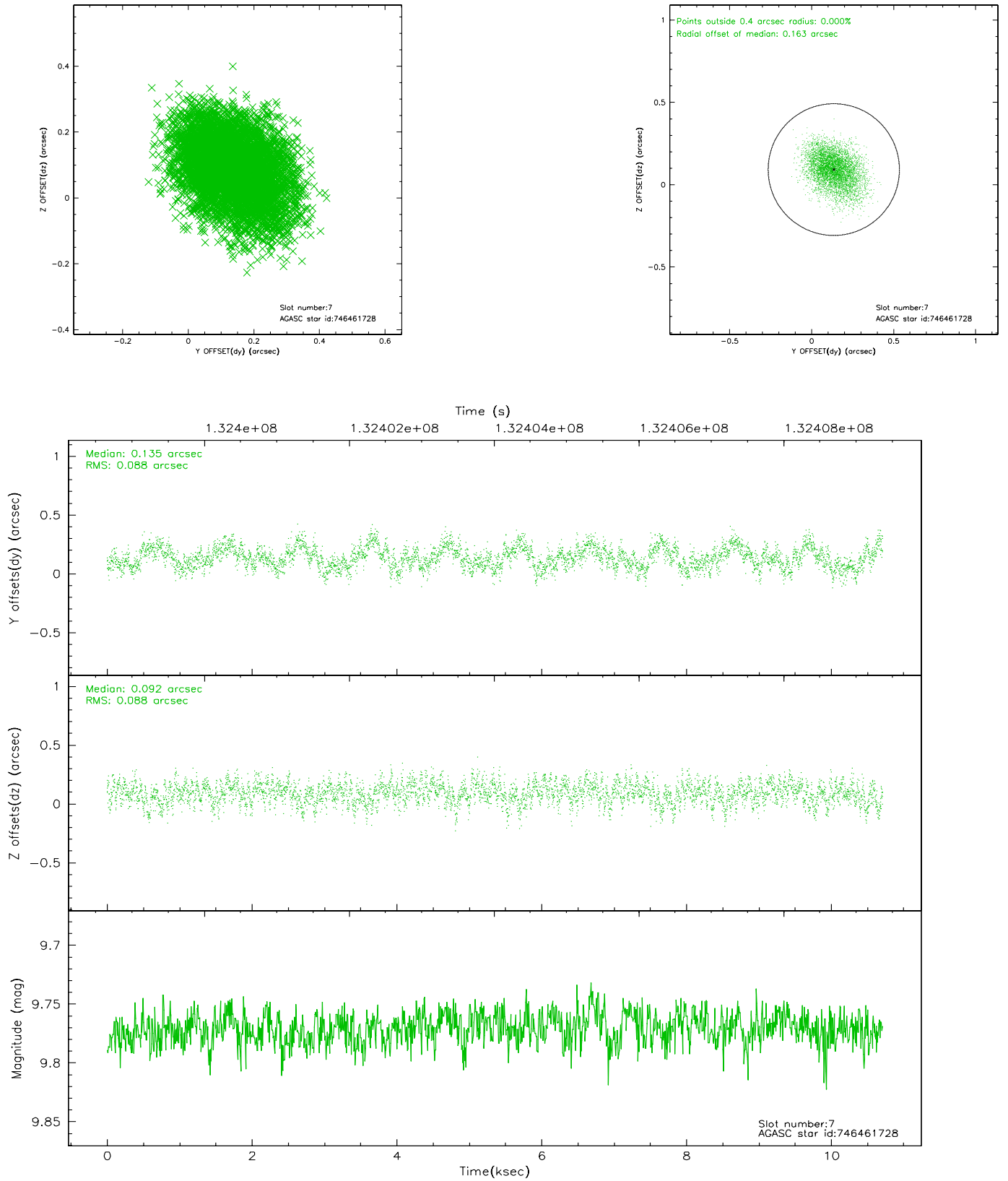
### 2.4.3 Slot 5



## 2.4.4 Slot 6

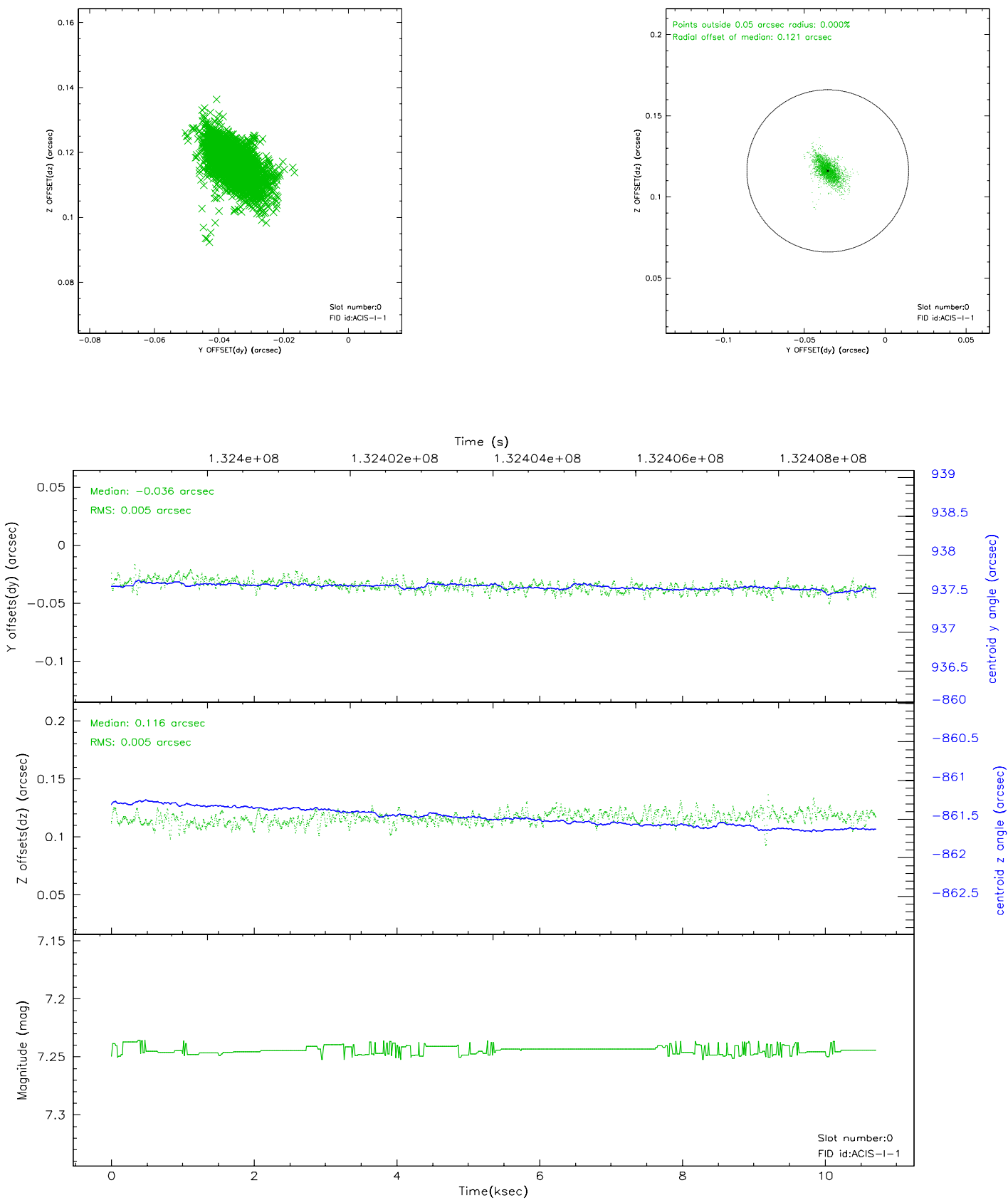


## 2.4.5 Slot 7

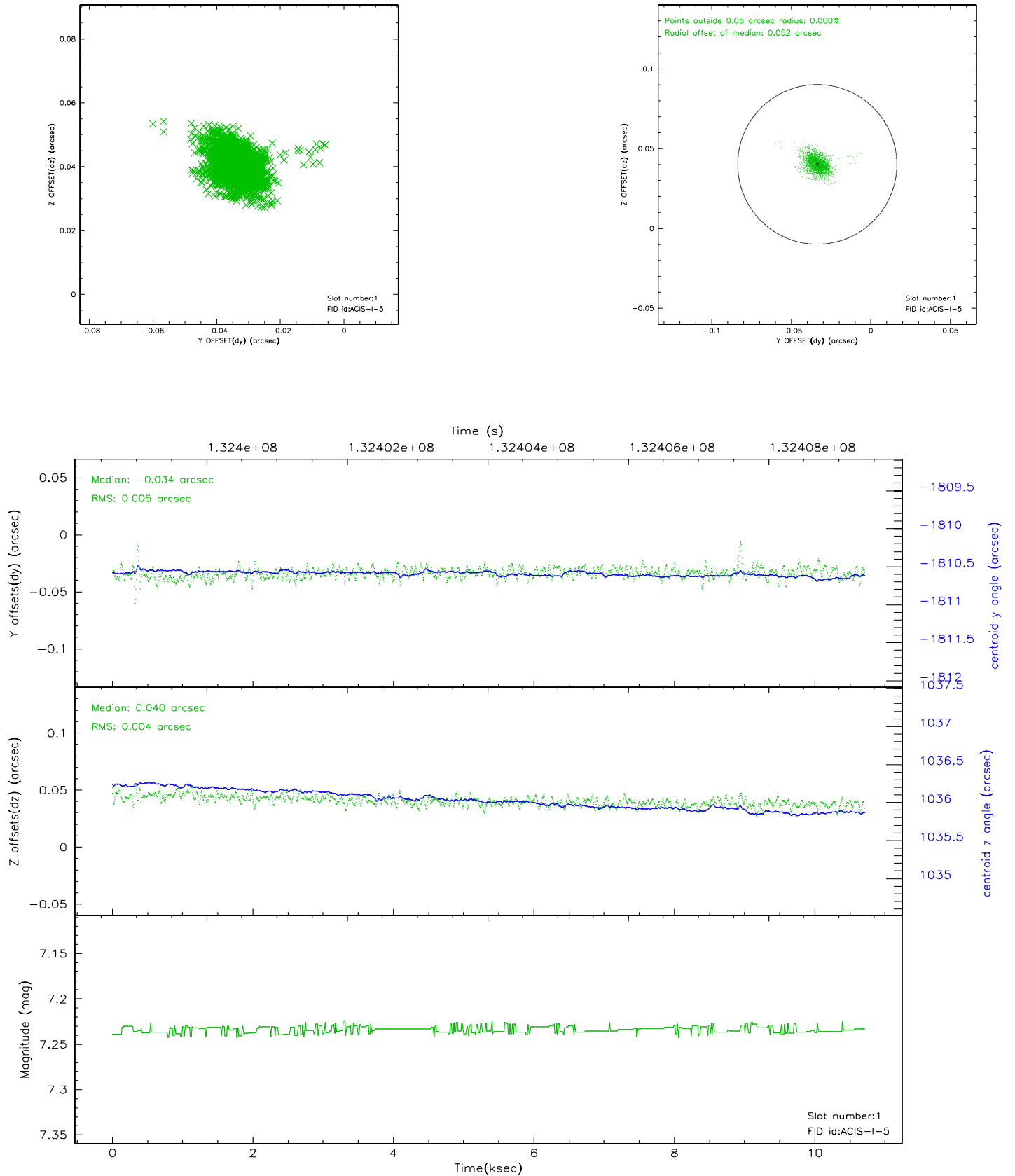


## 2.5 FID Slots

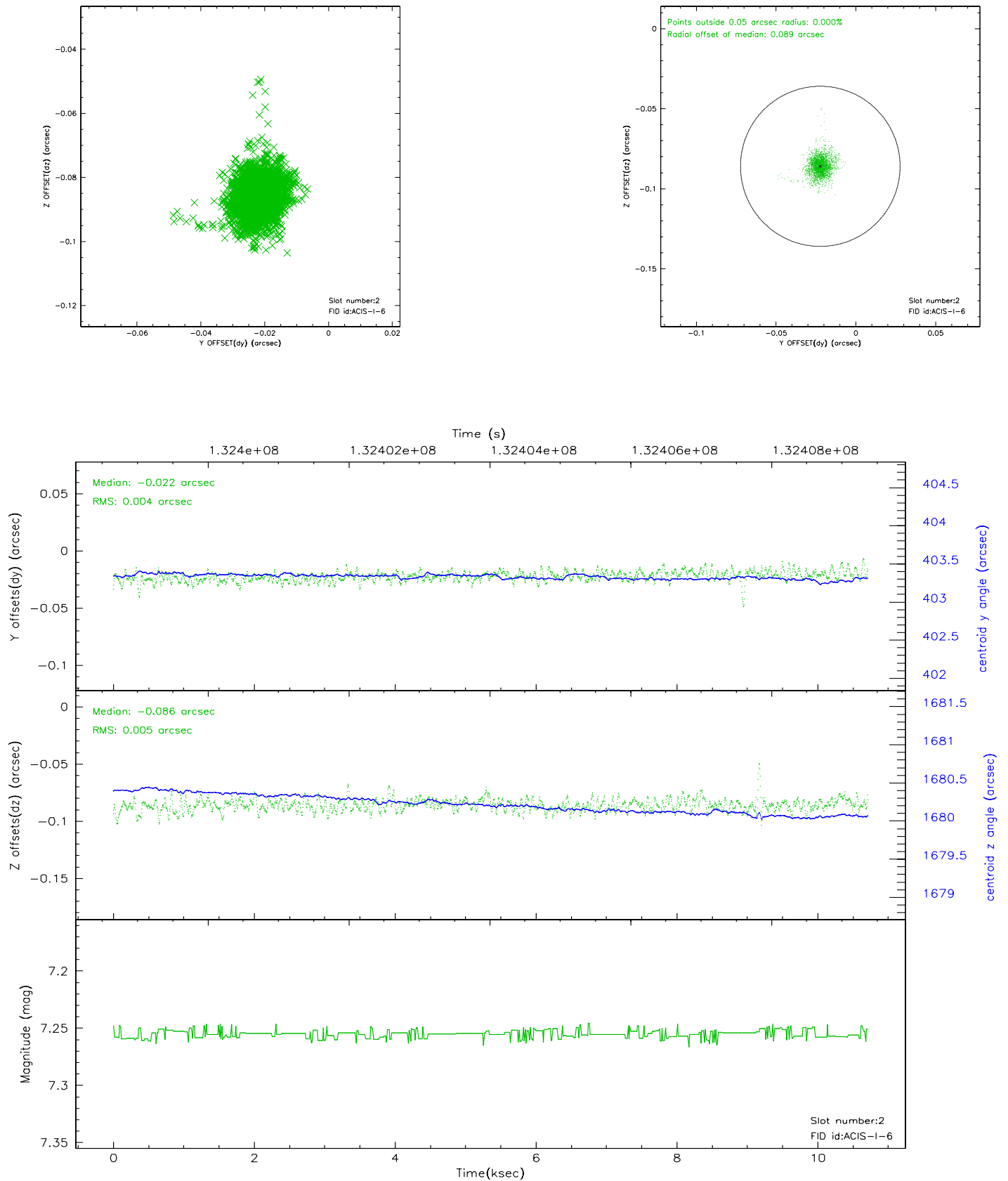
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





### 3 Point Sources

6.76 arcmin



# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2006.09.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.11

## A.2 Comments

Comments for Obi 1

Star in slot 6 has an RMS deviation > 0.200000 arcsec

Missed target. Due to an error in the specification of the sub-array parameters, the source G12.5-0.9 falls outside the sub-array data area. The target name was changed to include the phrase 'outer nebula', indicating the active CCD chip region is offset from the source.