

# V&V Reference Report

## L2 ASCDS Version : 7.6.9

Observation 2413 - L2 Version 3  
Chandra X-Ray Center

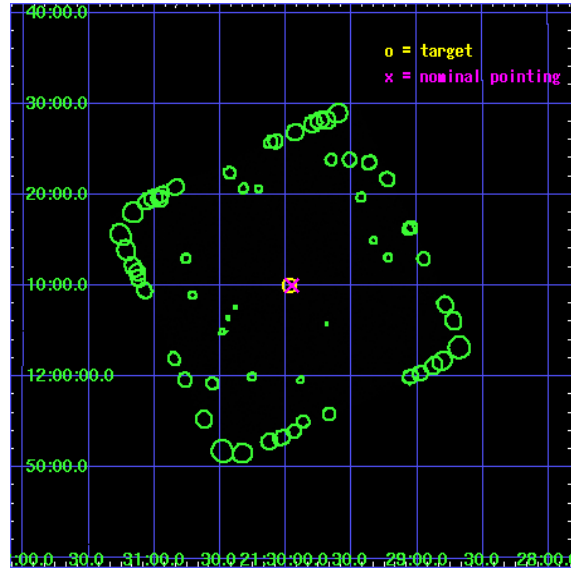
L2 Processing Date : Nov 20 2007

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# 1 Front

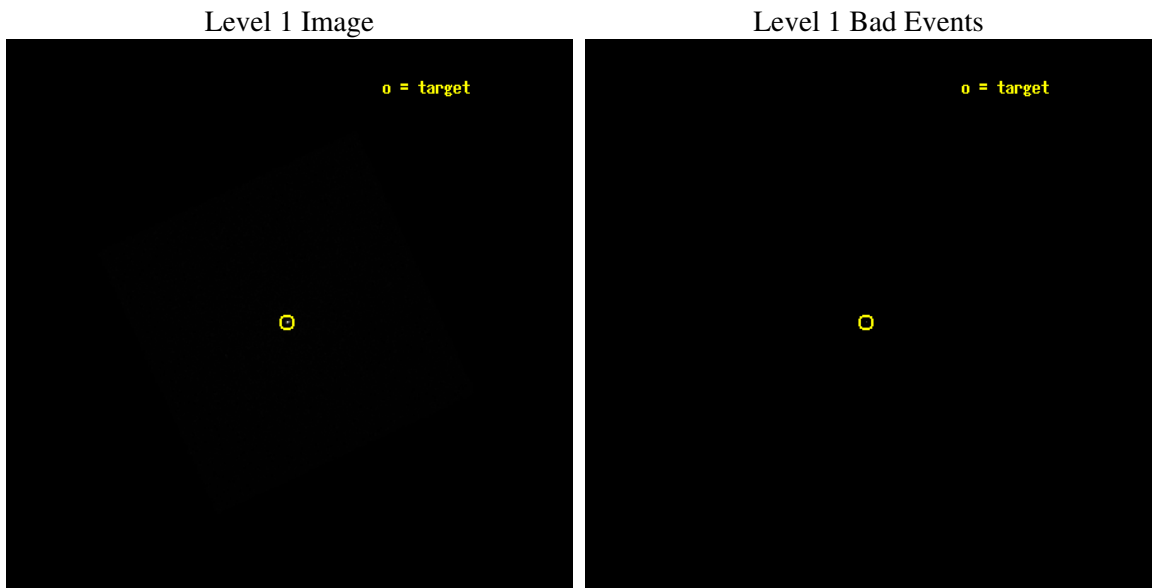
seq_num	300051
obs_id	2413
title	THE X-RAY SOURCE POPULATION IN THE CORE OF M15
observer	Prof Phil Charles
object	M15
ra_targ	322.492917
dec_targ	12.166806
ra_nom	322.48860254869
dec_nom	12.167030814616
roll_nom	200.16463579651
revision	3
ontime	10871.150428936
livetime	10789.907301242
l2events	570124



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0
ascdsver	7.6.11.2
caldbver	3.4.1
date	2007-11-20T18:36:32
revision	3

sched_exp_time	11000.000000
ontime	10871.150428936
l1events	775590

### 2.1.3 Events

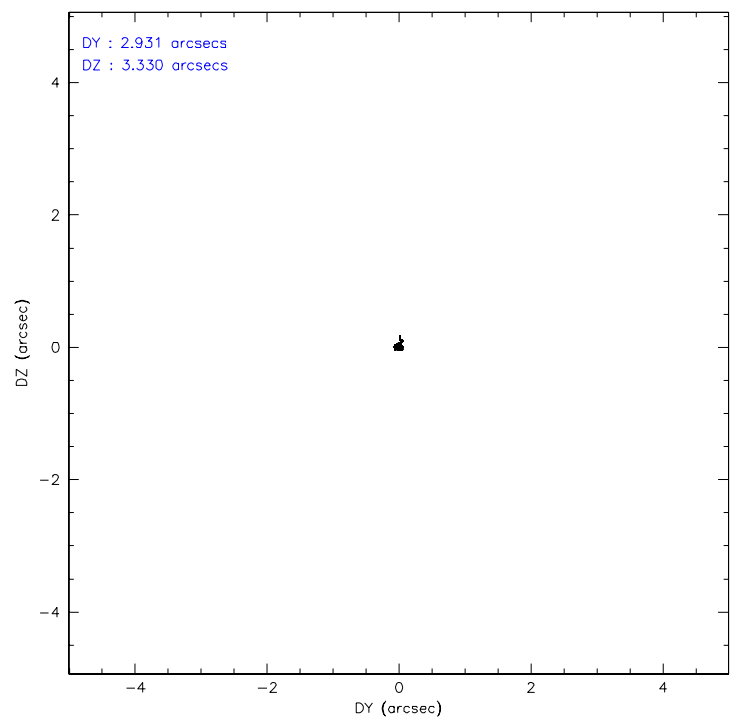
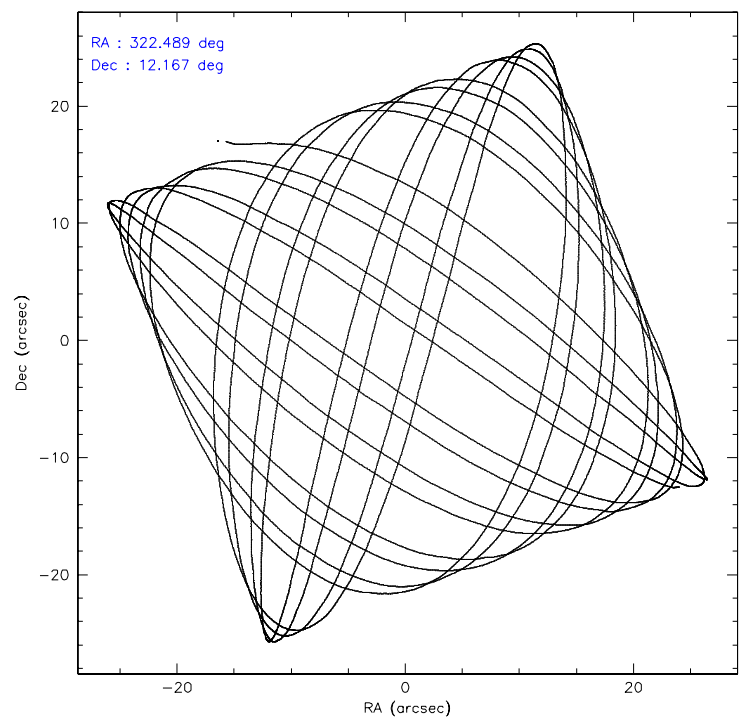
#### Level 1 Events

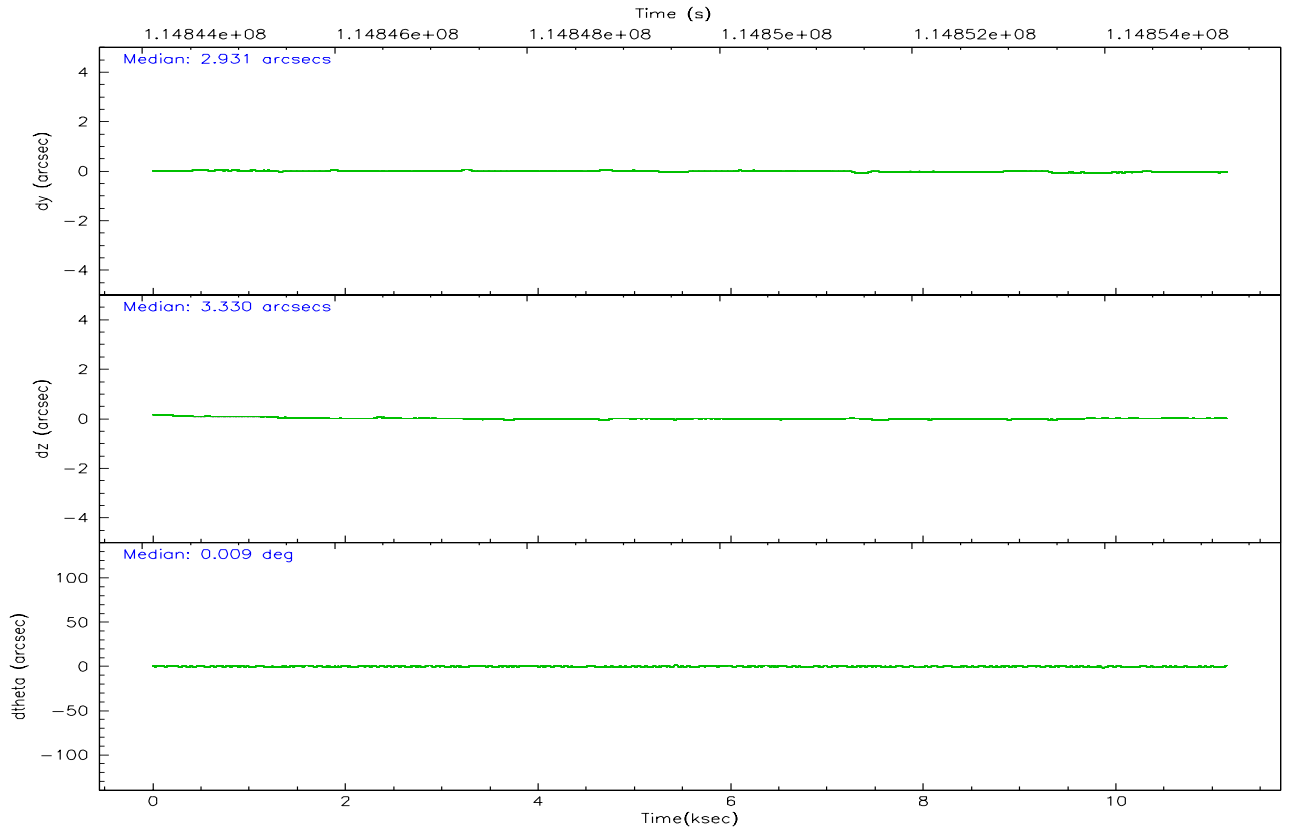
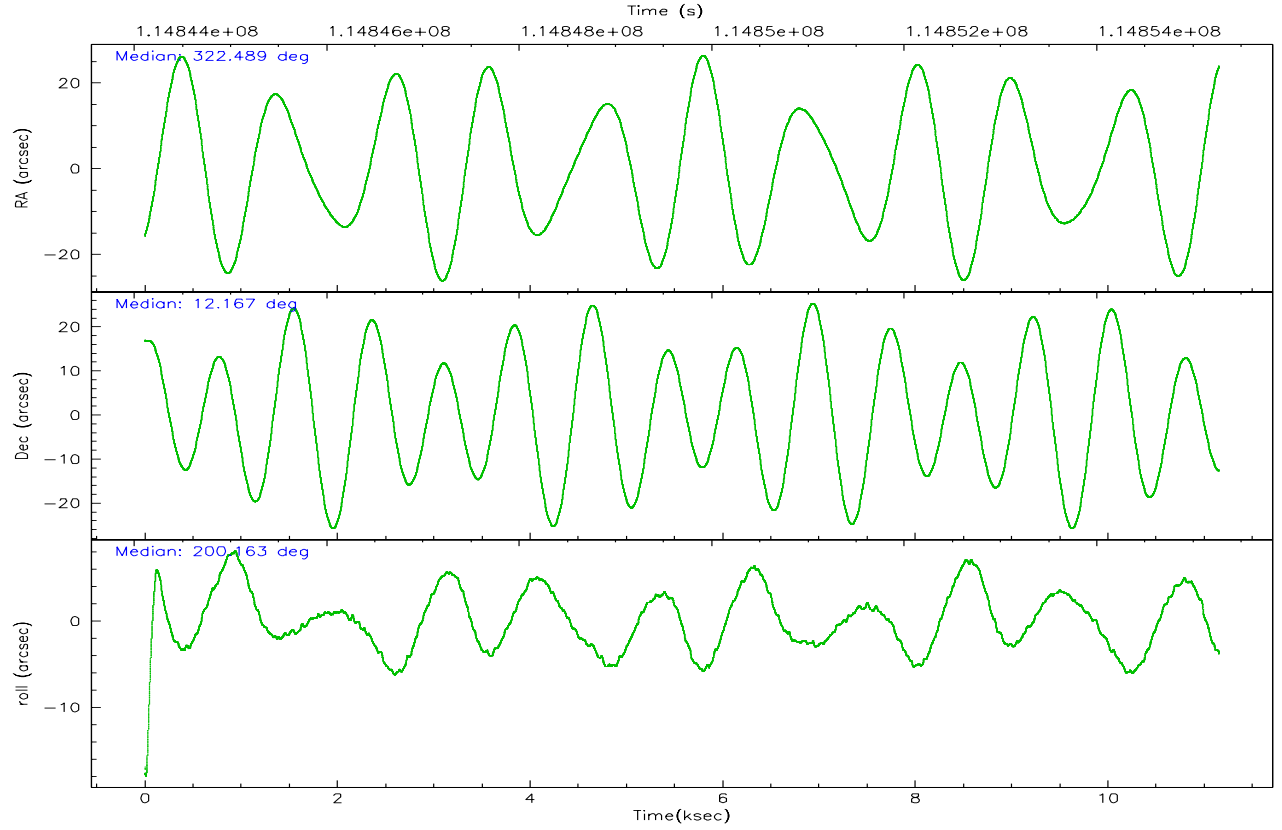
	<b>segment 0</b>
level 1 events	775590
rejected events	5687
rejected %	0%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	6	6
Detector	HRC-I	HRC-I	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
Pointing RA	322.505925	322.4886025486918			
Pointing Dec	12.188201	12.1670308146163			
Pointing Roll	200.256502	200.1646357965089			
SIM focus pos (mm)	-1.040293	-1.038866356238299			
SIM defocus (mm)	0	0.001426264420575141			
SIM translation stage pos (mm)	126.985494	126.9804656746847			
SIM translation stage offset (mm)	0	0.005023216916882234			
Phase constraints	Y	Y			
Phase period	0.712917	0.712917			
Phase epoch	50642.547000	50642.547000			
Phase start	0.900000	0.900000			
Phase end	0.100000	0.100000			
Phase start error	0.050000	0.050000			
Phase end error	0.050000	0.050000			
Observation start time	114844269.184000	114843427.67123			
Observation start date	2001-08-22T05:10:05	2001-08-22T04:57:07			
Observation end time	114855269.184000	114855799.93422			
Observation end date	2001-08-22T08:13:25	2001-08-22T08:23:19			

## 2.3 Aspect





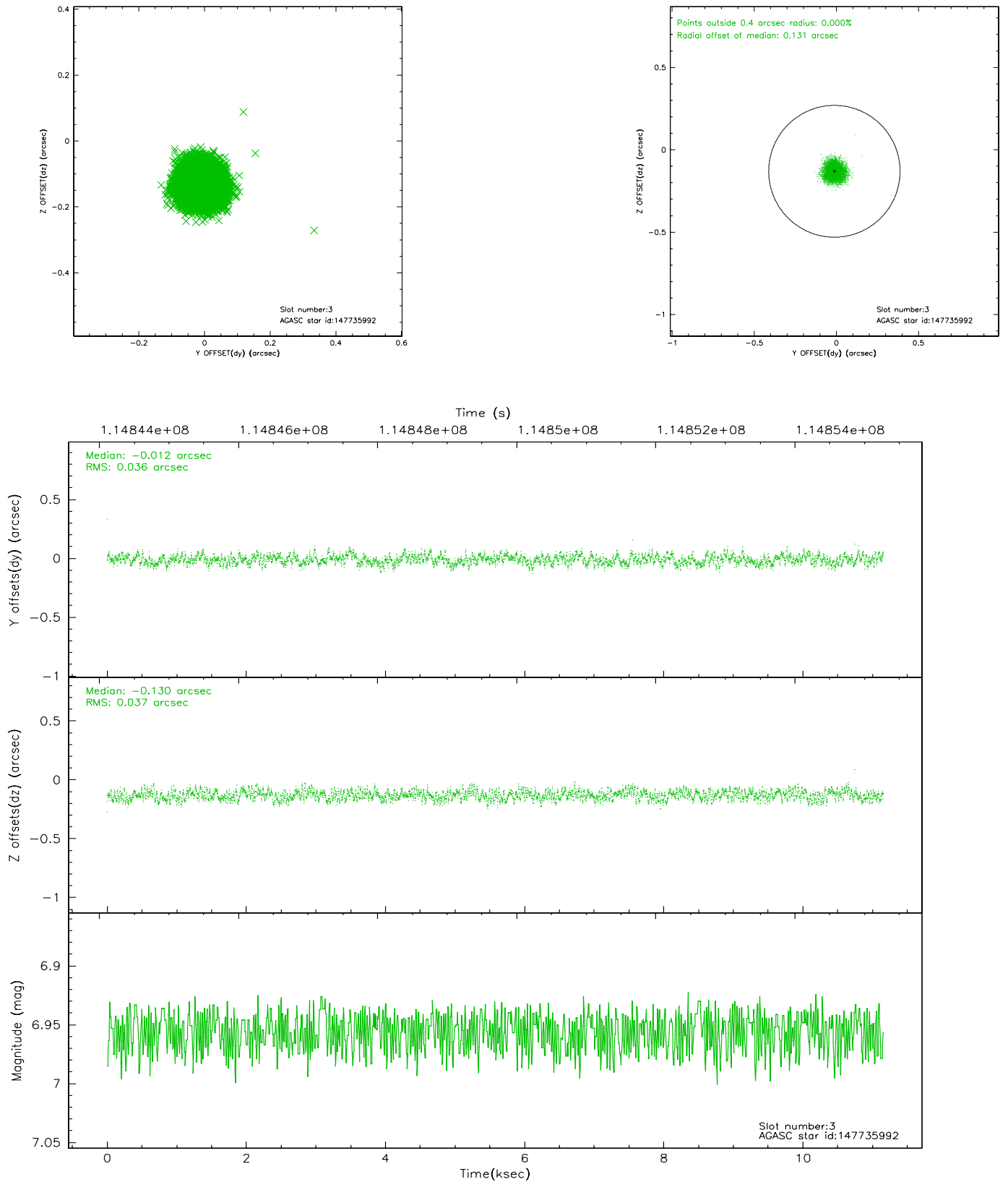
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	HRC-I-2	7.00	2721	0.084	-0.041	0.006	0.010	0.000000	0.000000	854.30	-1292.65
1	FID	HRC-I-3	7.05	2720	-0.001	0.014	0.006	0.011	0.000000	0.000000	-1186.56	1013.09
2	FID	HRC-I-4	6.98	2721	0.036	-0.060	0.006	0.010	0.000000	0.000000	1284.00	1011.43
3	GUIDE	147735992	6.95	5443	-0.012	-0.130	0.056	0.085	322.299566	11.952911	975.16	543.53
4	GUIDE	147722152	7.53	5443	-0.015	-0.013	0.062	0.099	322.735072	12.555367	-1212.73	-960.82
5	GUIDE	147719608	8.70	5441	0.017	0.030	0.066	0.106	322.898936	12.907459	-2190.63	-1952.22
6	GUIDE	147735328	8.67	5442	-0.023	0.097	0.070	0.113	321.823462	12.214663	2218.57	-923.05
7	GUIDE	147736824	9.15	5442	0.036	0.015	0.076	0.123	322.394074	11.689801	991.70	1547.36

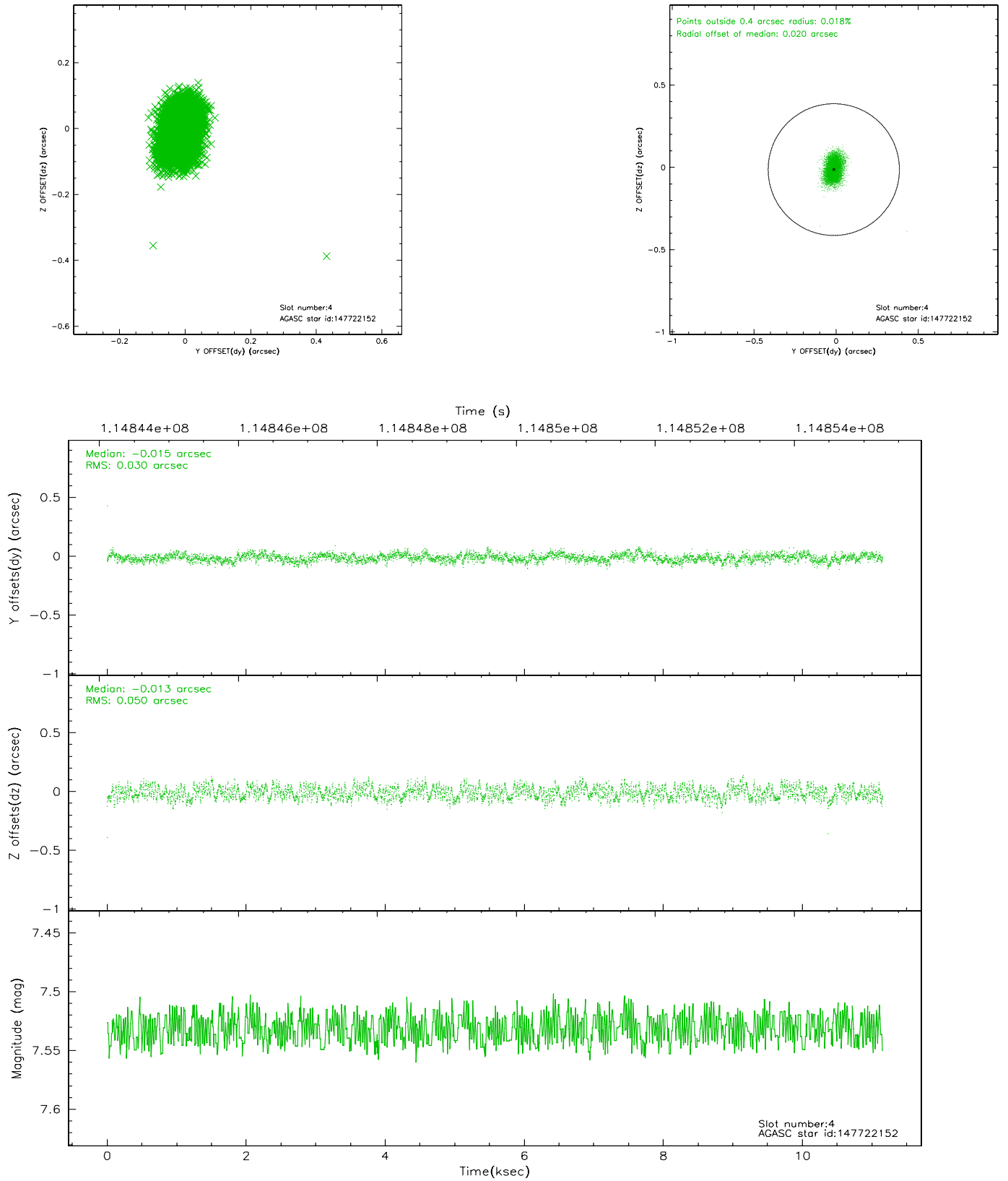


## 2.4 Star Slots

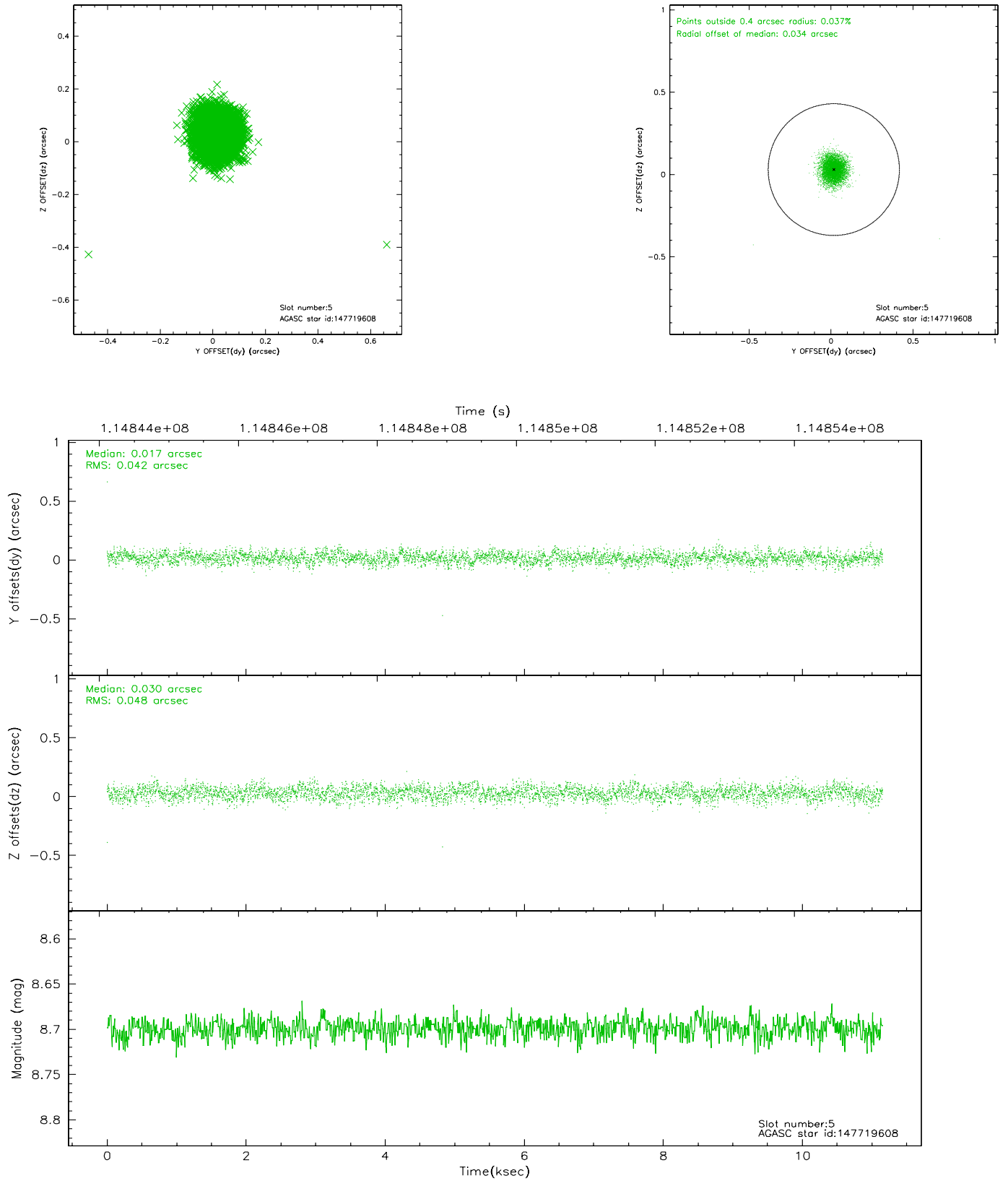
### 2.4.1 Slot 3



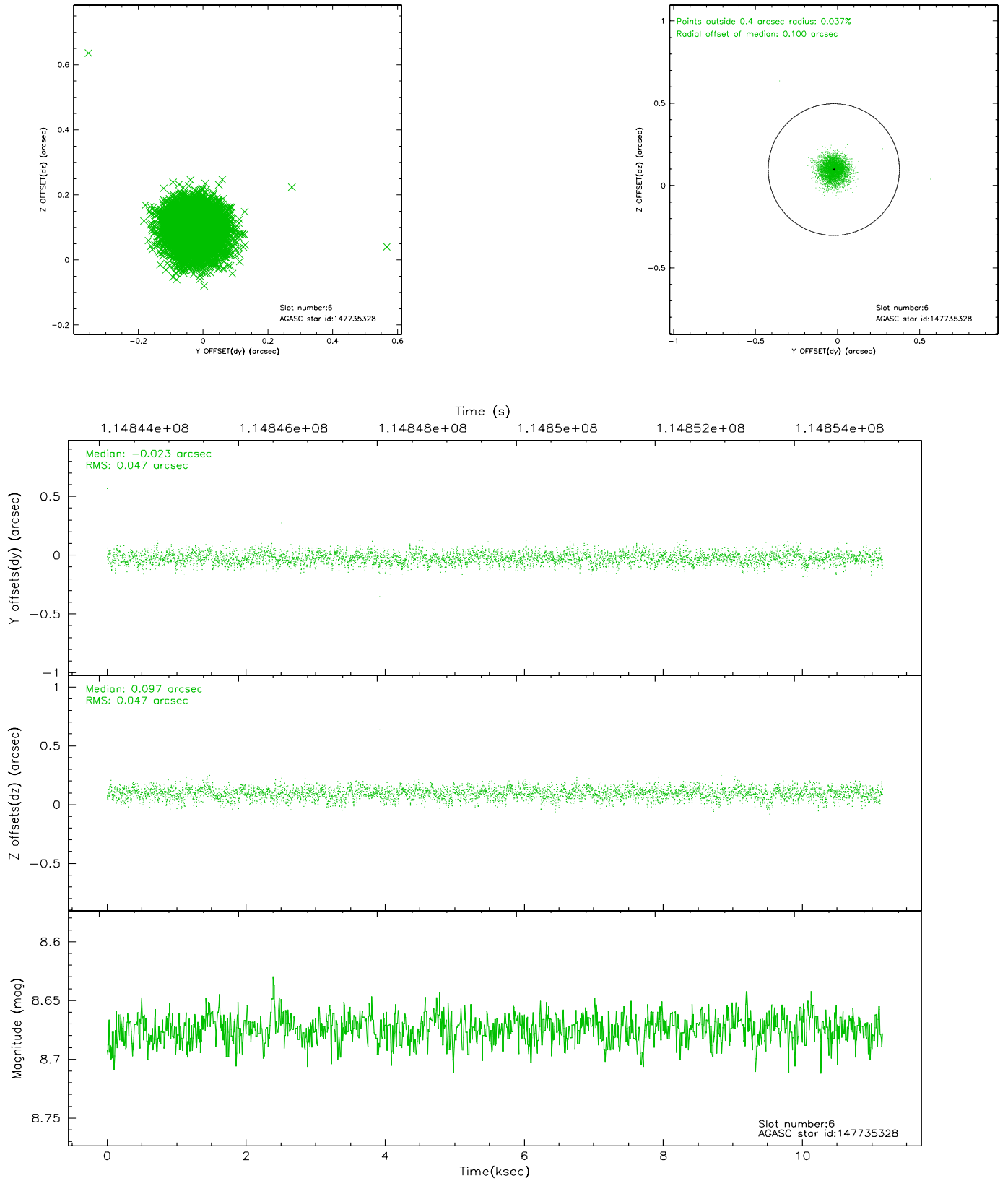
## 2.4.2 Slot 4



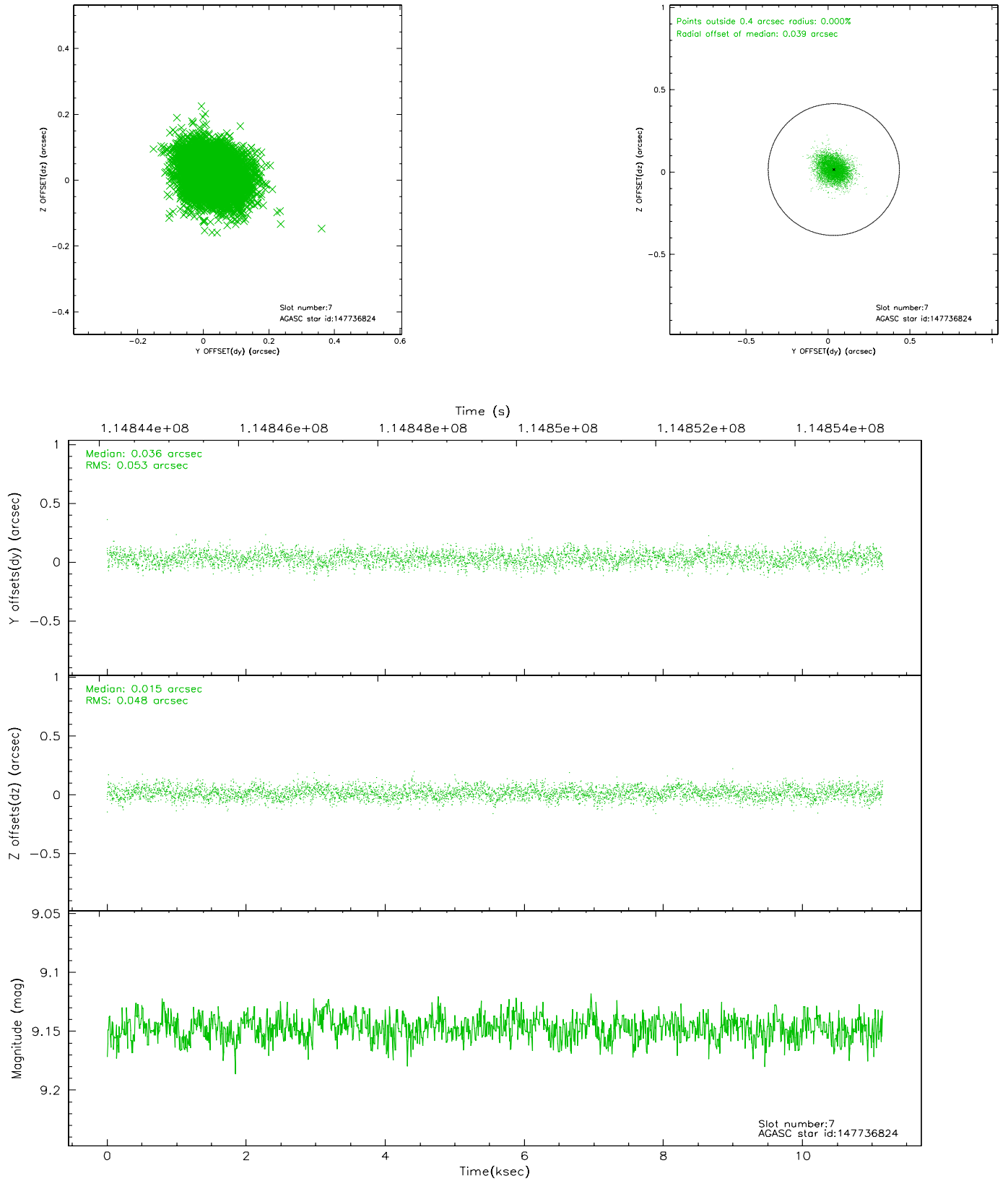
### 2.4.3 Slot 5



## 2.4.4 Slot 6

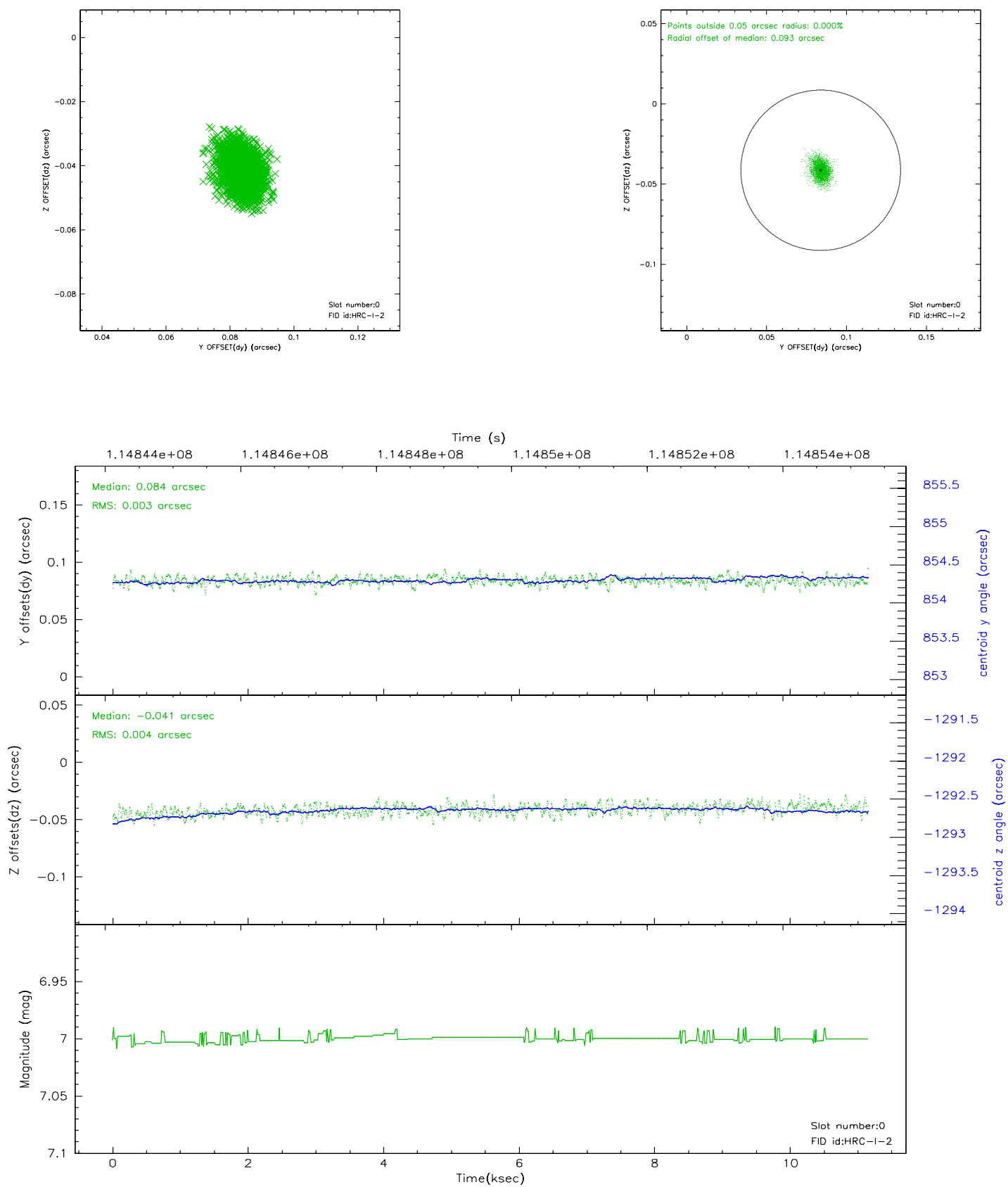


## 2.4.5 Slot 7

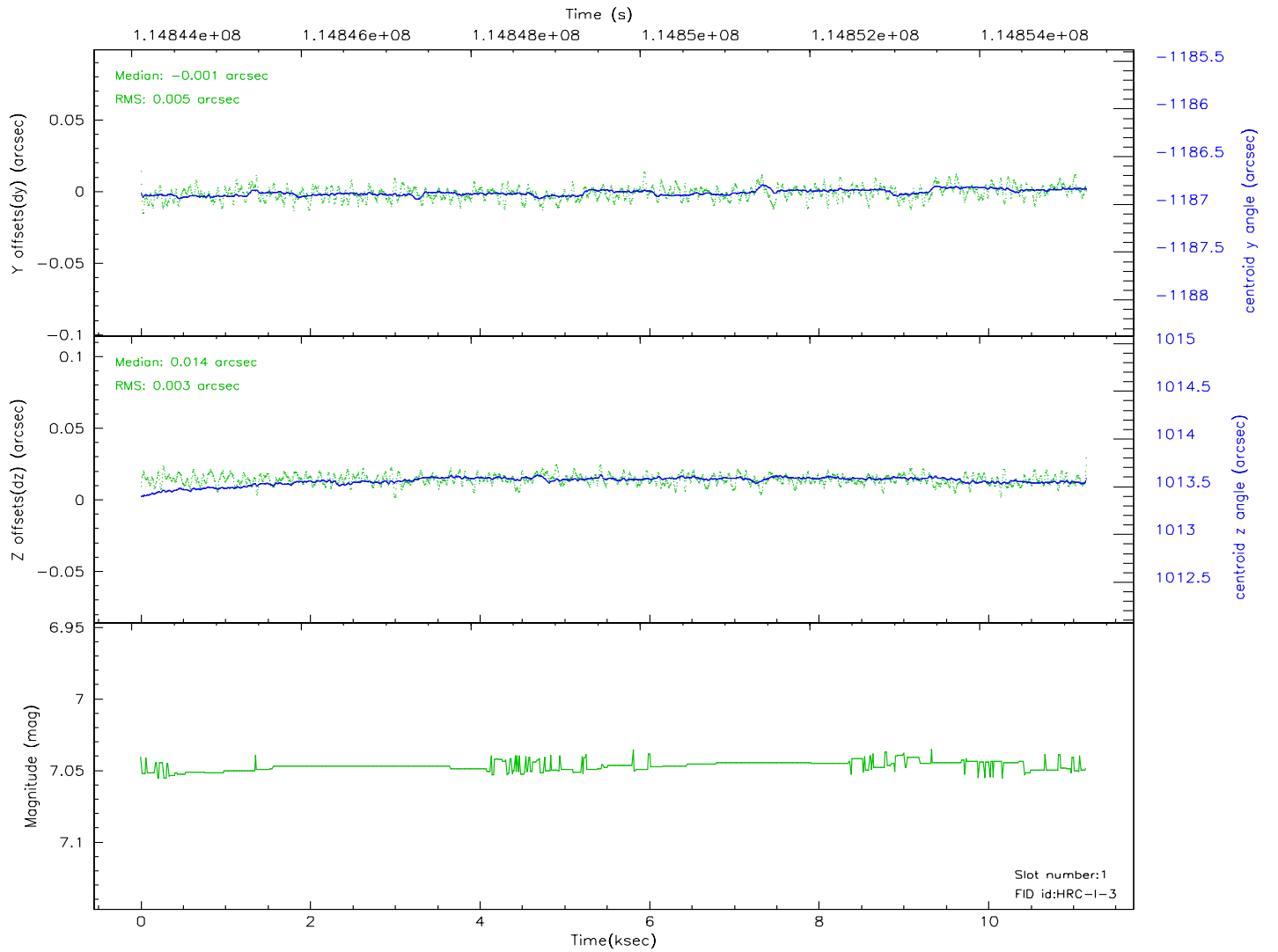
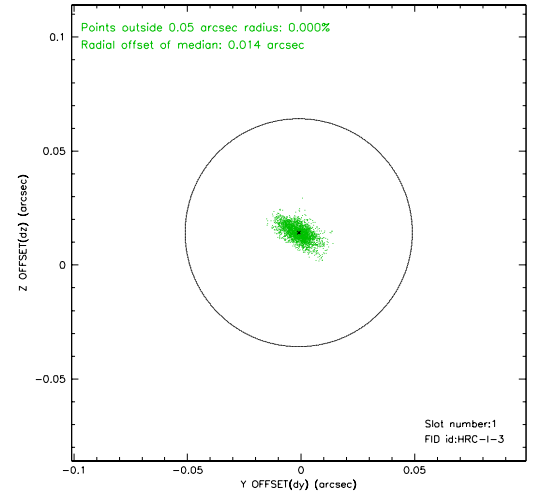
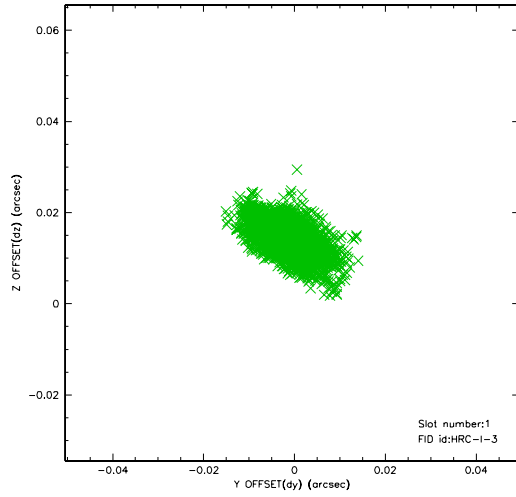


## 2.5 FID Slots

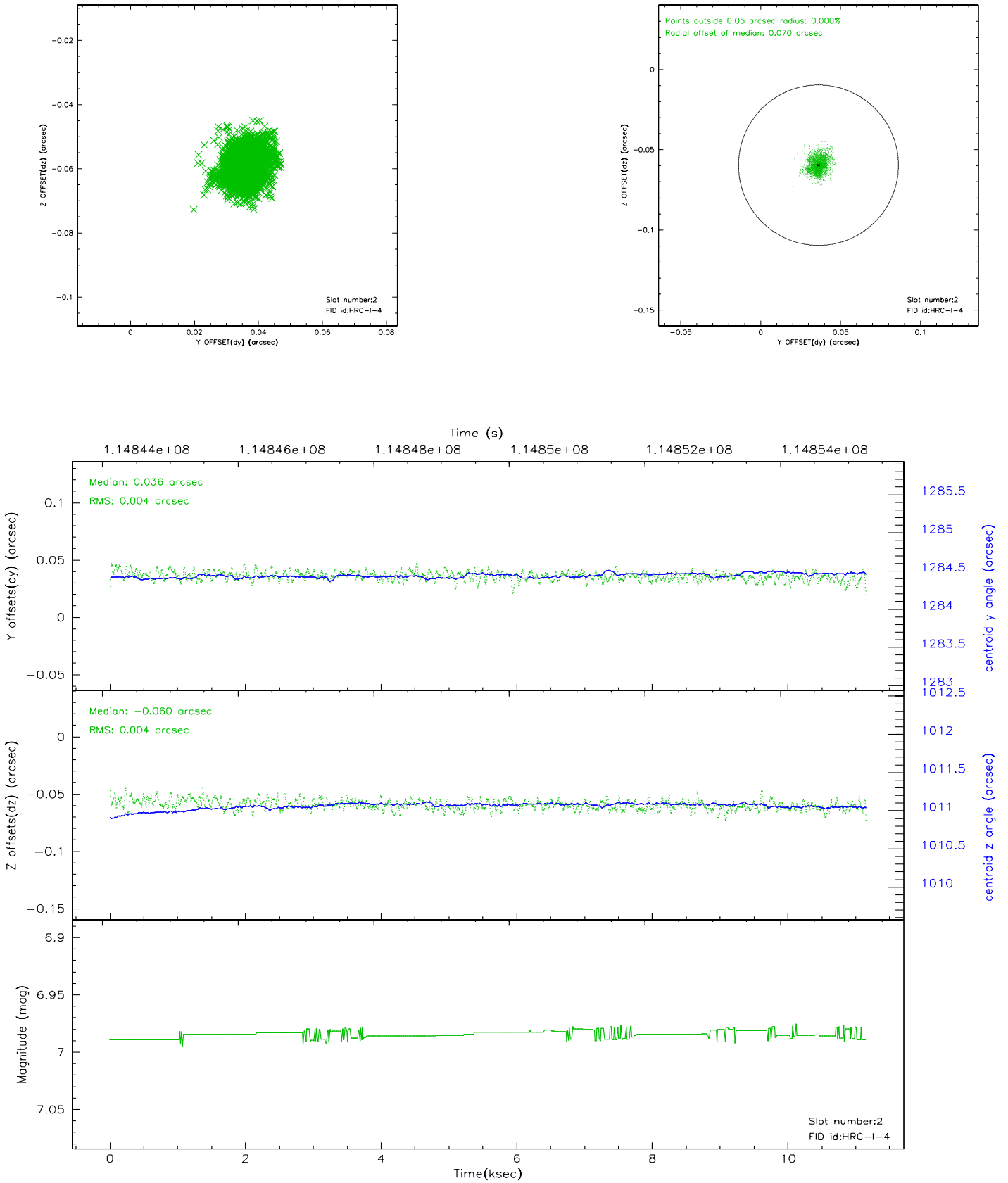
### 2.5.1 Slot 0



## 2.5.2 Slot 1

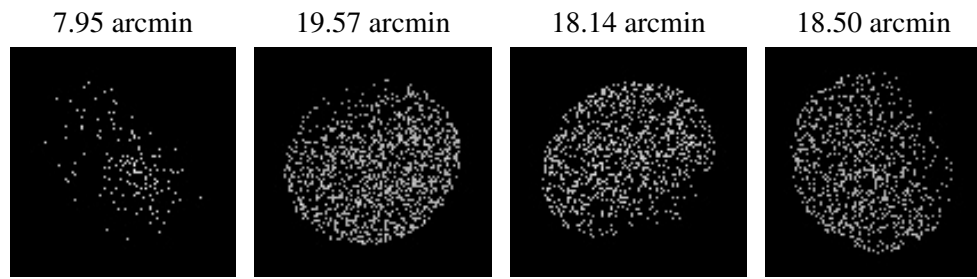


### 2.5.3 Slot 2





### 3 Point Sources



# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2007.12.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10.871

## A.2 Comments

Phase constraint OK per prior V&V report.

The current observation has been reprocessed as part of Repro III ('C' supplement) the purpose of which is to update all HRC-I ObsIDs since Jan 2000 to the latest calibrations available for that configuration. Specifically, we are updating the DEGAP solution and the Gain Maps applied. For more information see the Repro IIIC web page at

<http://asc.harvard.edu/cda/repro3.html#IIIC>

and the associated links.