

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 15620 - L2 Version 2  
Chandra X-Ray Center

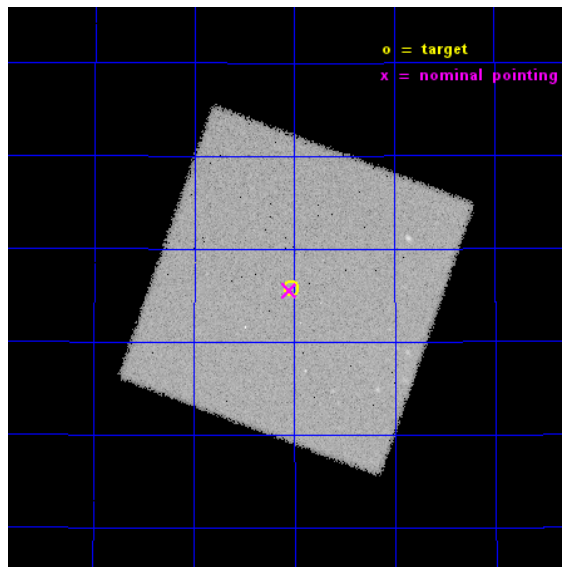
L2 Processing Date : Dec 1 2014

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# 1 Front

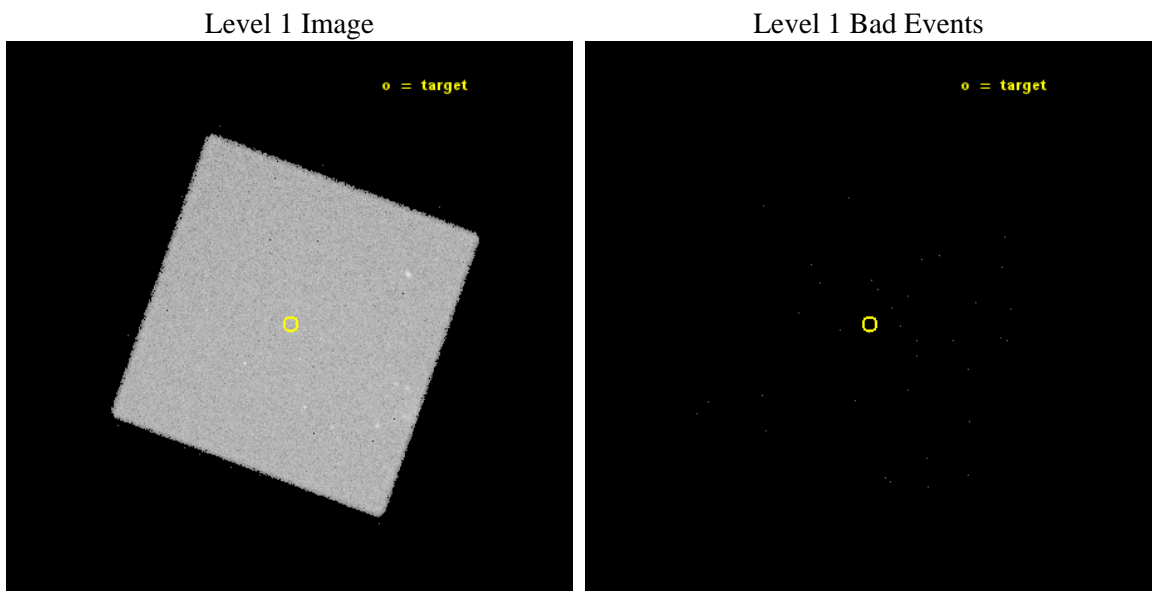
seq_num	300318	Sequence number
obs_id	15620	Observation id
title	Understanding the X-ray temperature vs life time dependence of novae	&#160
observer	Dr Martin Henze	Principal investigator
object	M31N 2013-01b	Source name
ra_targ	11.00875	Observer's specified target RA [deg]
dec_targ	41.429	Observer's specified target Dec [deg]
ra_nom	11.012452990672	Nominal RA [deg]
dec_nom	41.425783909748	Nominal Dec [deg]
roll_nom	334.90205249932	Nominal Roll [deg]
revision	2	Processing version of data
ontime	5179.5815304518	[s]
livetime	5134.0240522087	Ontime multiplied by DTCOR
l2events	340435	Number of level 2 events



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



### 2.1.2 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	5179.5815304518	[s]
caldbver	4.6.4	&#160	l1events	522138	Number of level 1 events
date	2014-12-02T00:36:19	Date and time of file creation			
revision	2	Processing version of data			

### 2.1.3 Events

#### Level 1 Events

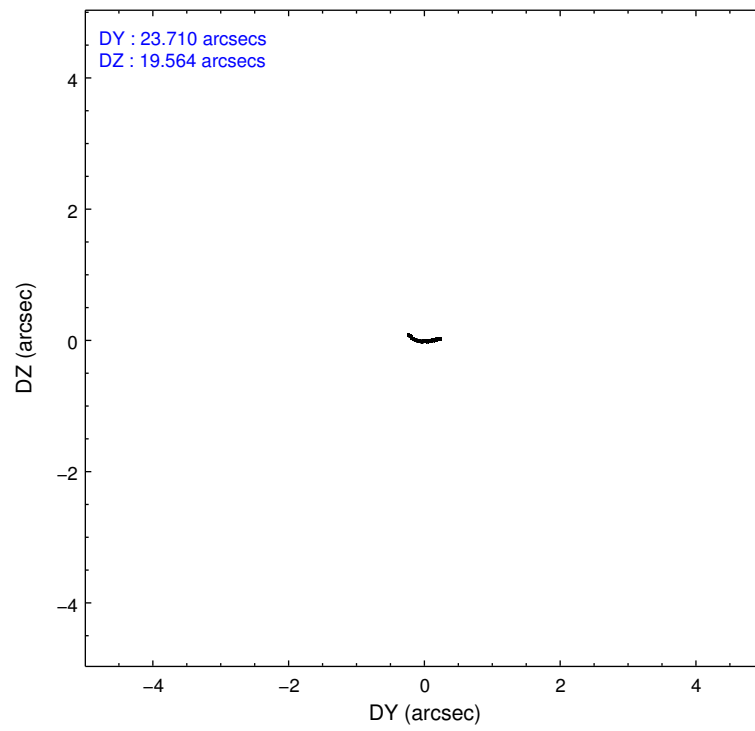
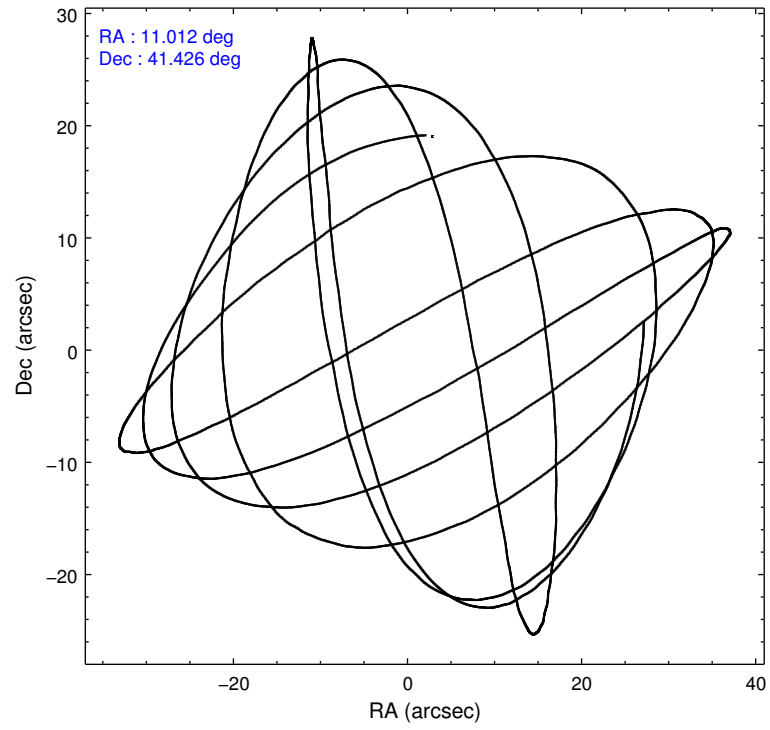
	<b>segment 0</b>
level 1 events	522138
rejected events	56858
rejected %	10%

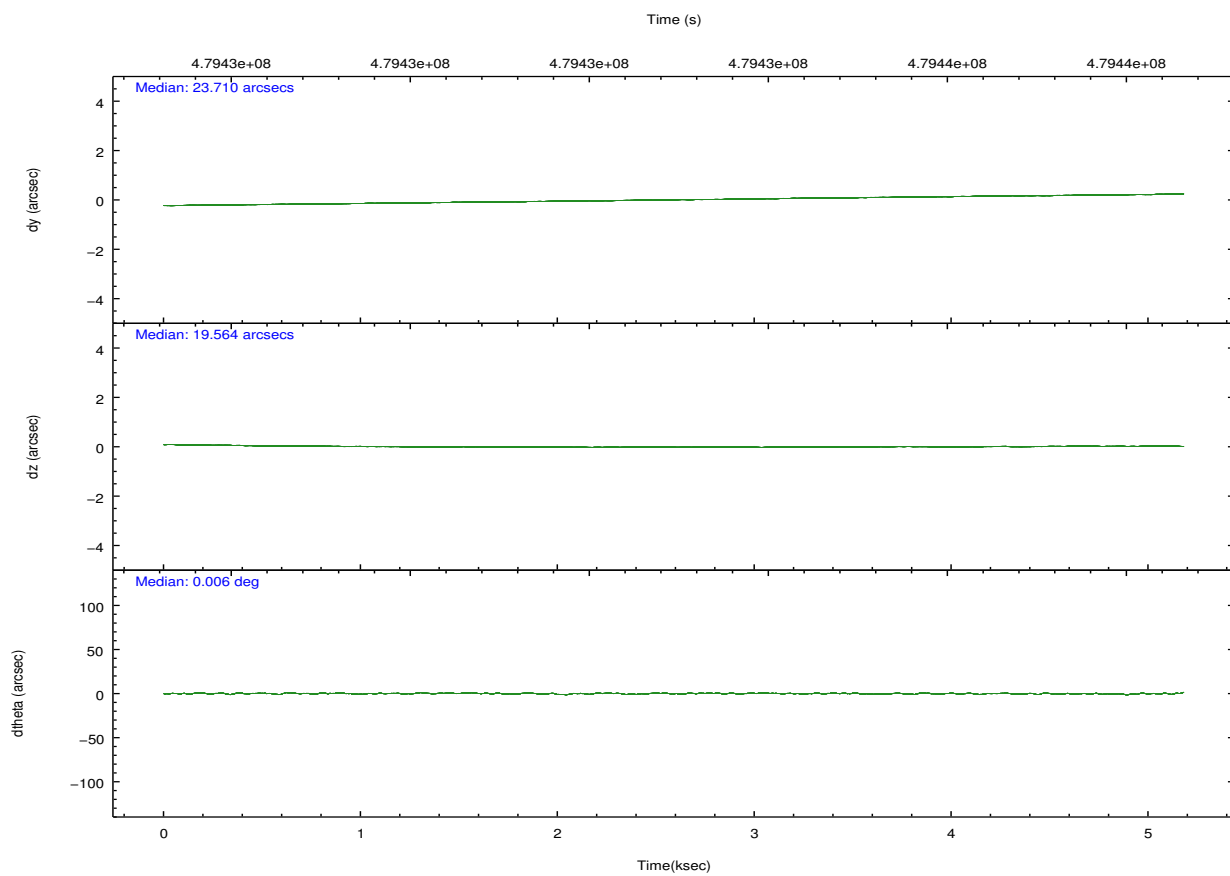
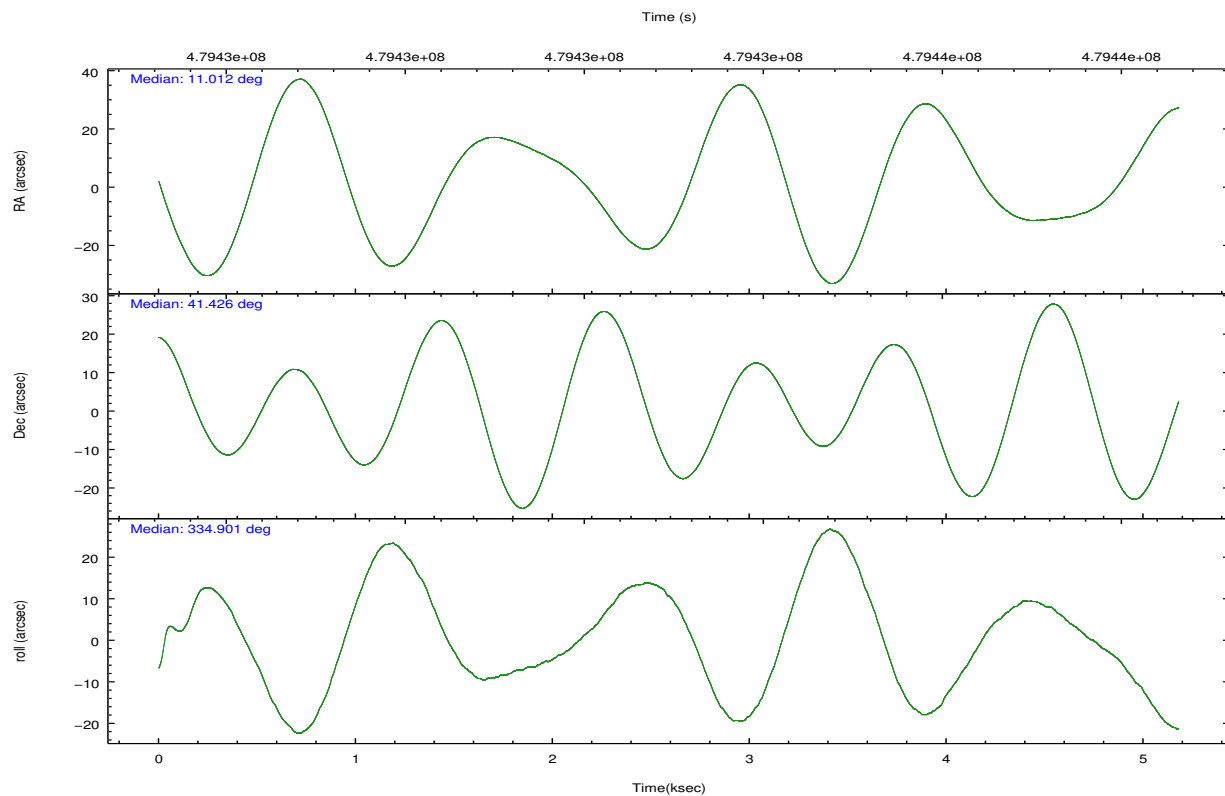


## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
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			
[deg] Pointing RA	10.976552	11.01245299067191			
[deg] Pointing Dec	41.422967	41.42578390974833			
[deg] Pointing Roll	335.021300	334.9020524993227			
[mm] SIM focus pos	-1.040293	-1.038866356238299			
[mm] SIM defocus	0	0.001426264420575141			
[mm] SIM translation stage pos	126.985494	126.9829799899862			
[mm] SIM translation stage offset	0	0.002508901615314585			
[s] Observation start time (MET)	479431063.184000	479430264.13019			
Observation start date	2013-03-11T23:16:36	2013-03-11T23:04:24			
[s] Observation end time (MET)	479436063.184000	479436302.40552			
Observation end date	2013-03-12T00:39:56	2013-03-12T00:45:02			

## 2.3 Aspect



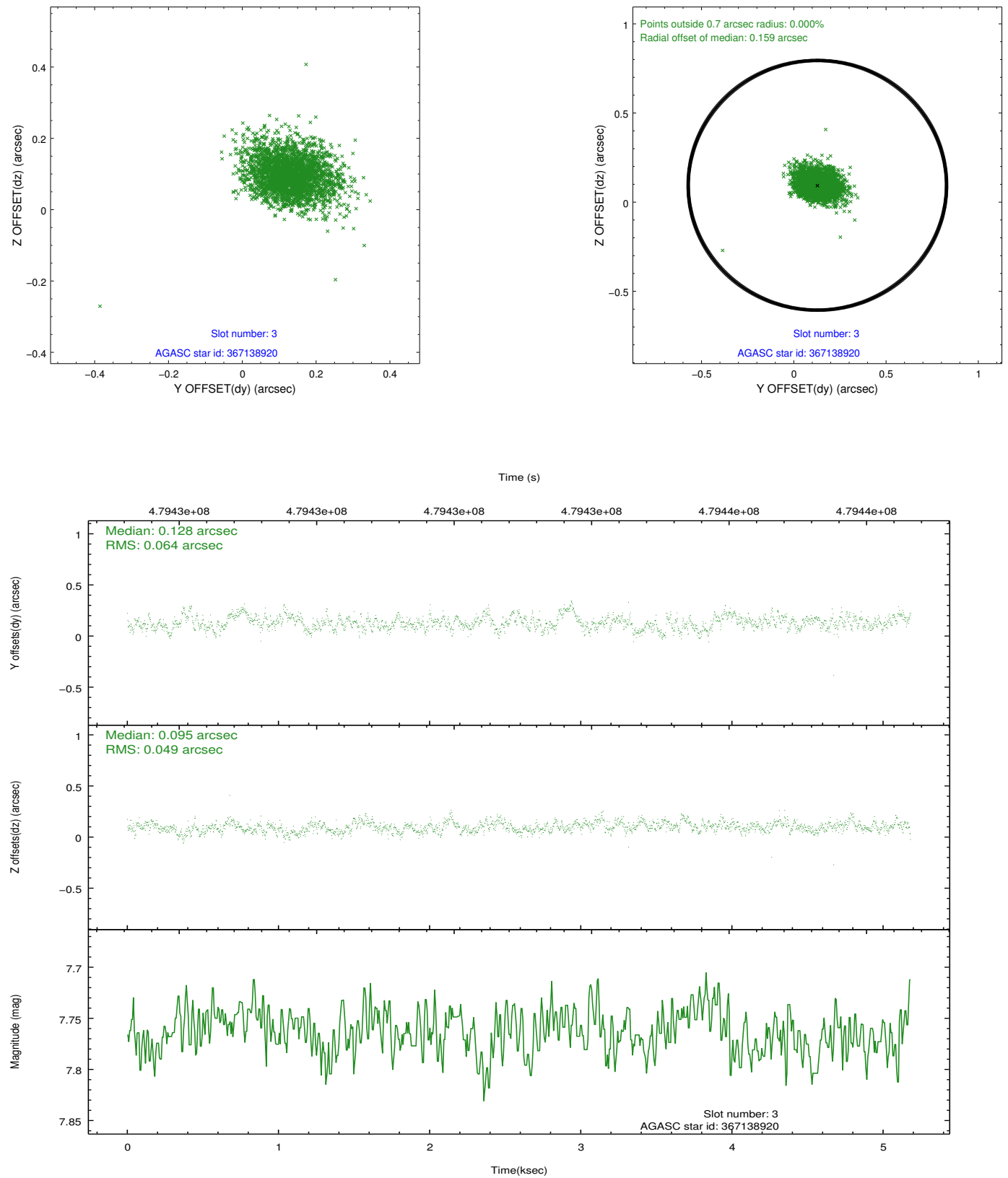


### Slot Statistics

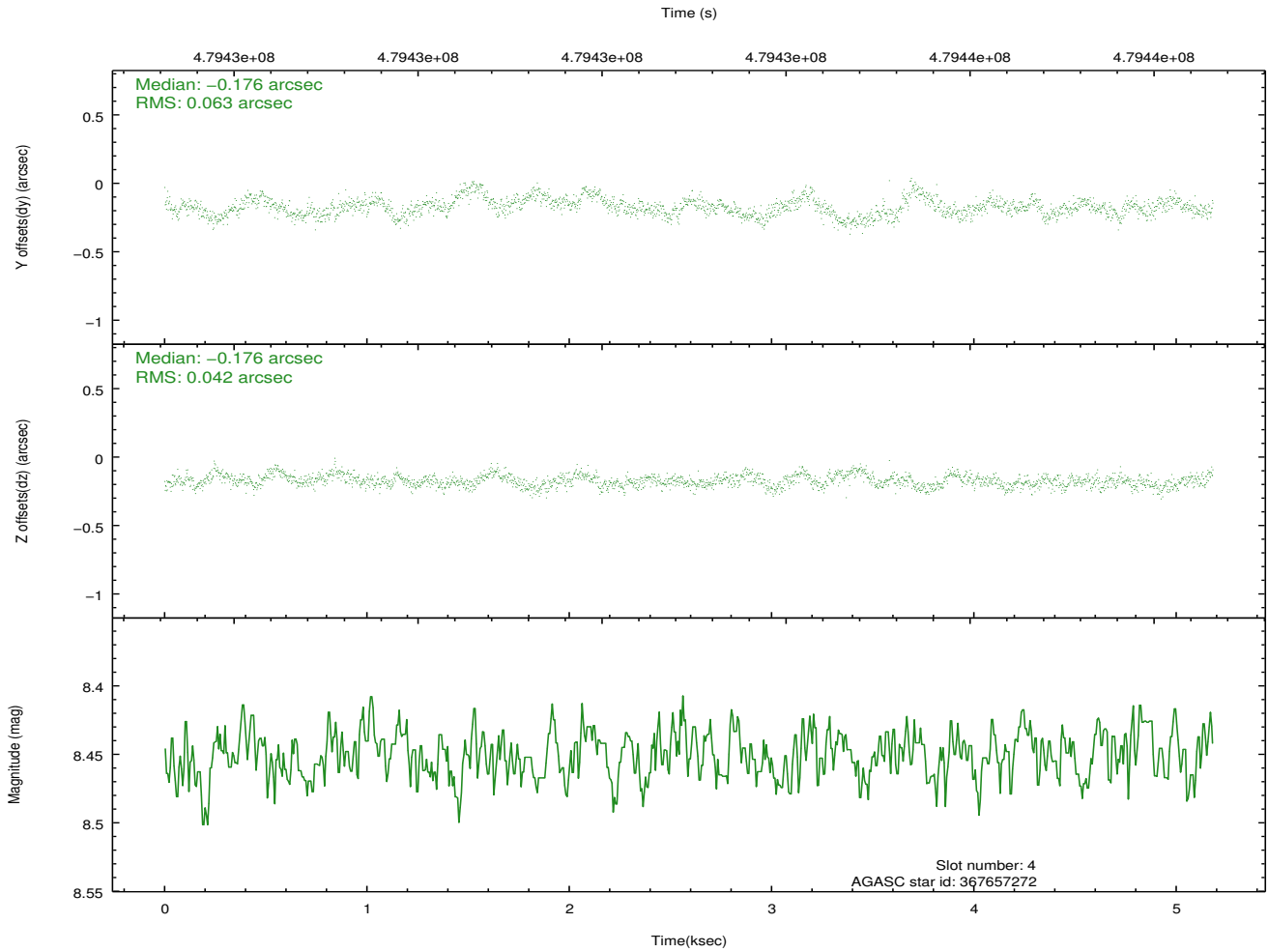
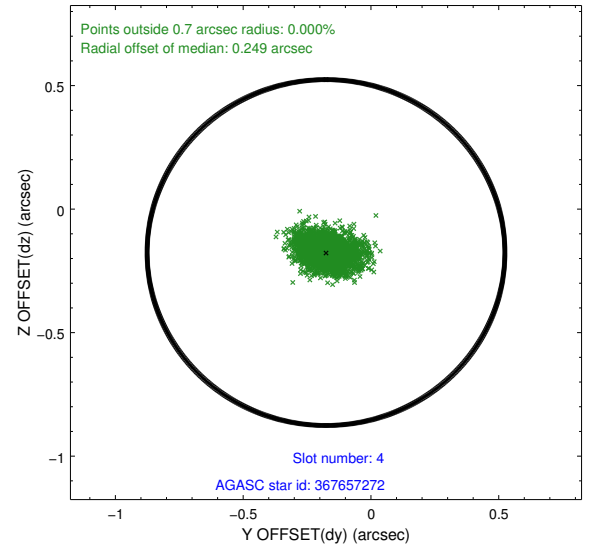
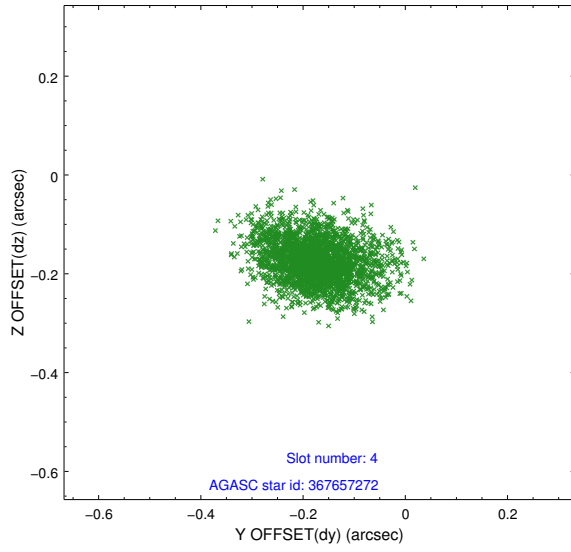
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-I-1	6.99	1264	-0.131	0.023	0.007	0.012	0.000000	0.000000	-779.81	-1307.81
1	FID		HRC-I-2	7.04	1263	0.248	-0.086	0.009	0.015	0.000000	0.000000	832.58	-1310.44
2	FID		HRC-I-3	7.09	1263	0.002	-0.028	0.010	0.018	0.000000	0.000000	-1207.63	995.65
3	GUIDE	used	367138920	7.76	2528	0.128	0.095	0.082	0.139	11.513485	40.808909	2259.84	-1381.28
4	GUIDE	used	367657272	8.45	2528	-0.176	-0.176	0.078	0.136	11.834471	41.298907	2288.17	585.48
5	GUIDE	used	367663272	9.27	2512	0.026	0.110	0.140	0.231	10.656279	41.699429	-1200.66	540.15
6	GUIDE	used	367674552	8.85	2516	0.084	-0.019	0.101	0.168	11.016238	41.570845	-127.69	528.65
7	GUIDE	used	367667384	8.65	2524	-0.066	-0.015	0.089	0.146	12.077552	41.596878	2414.78	1837.38

## 2.4 Star Slots

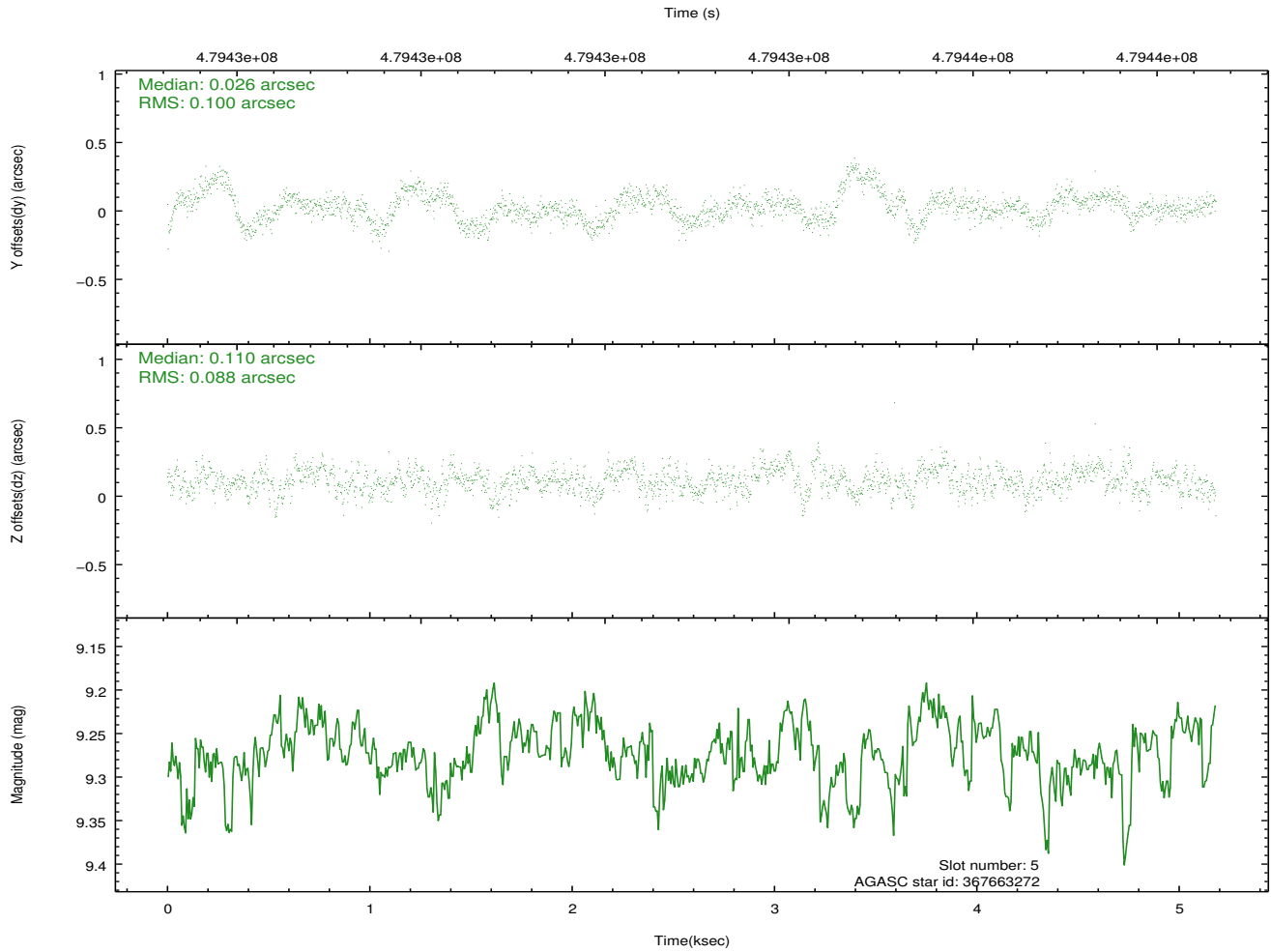
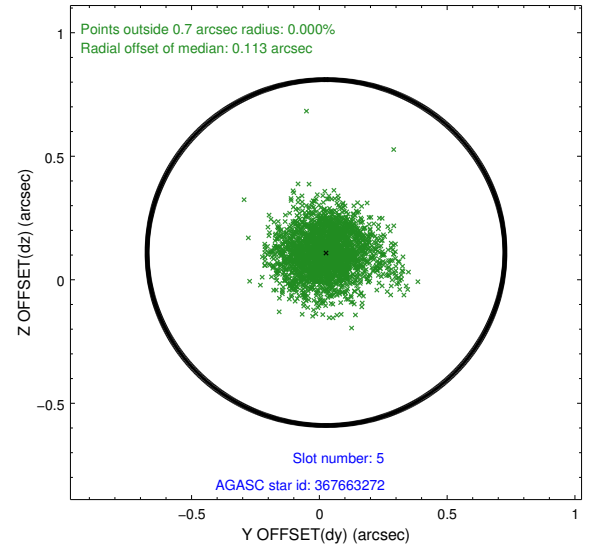
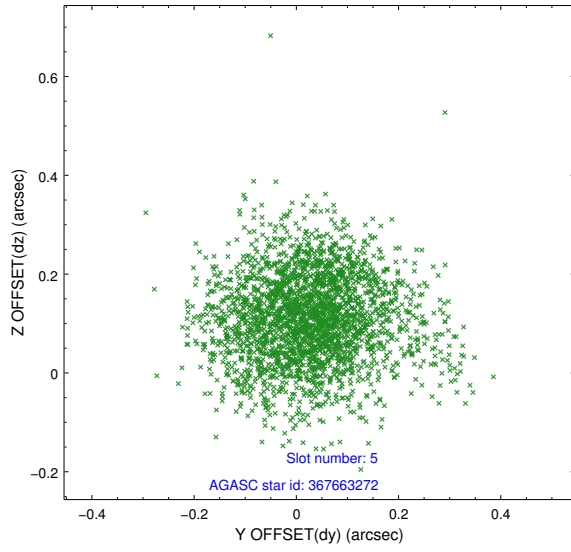
### 2.4.1 Slot 3



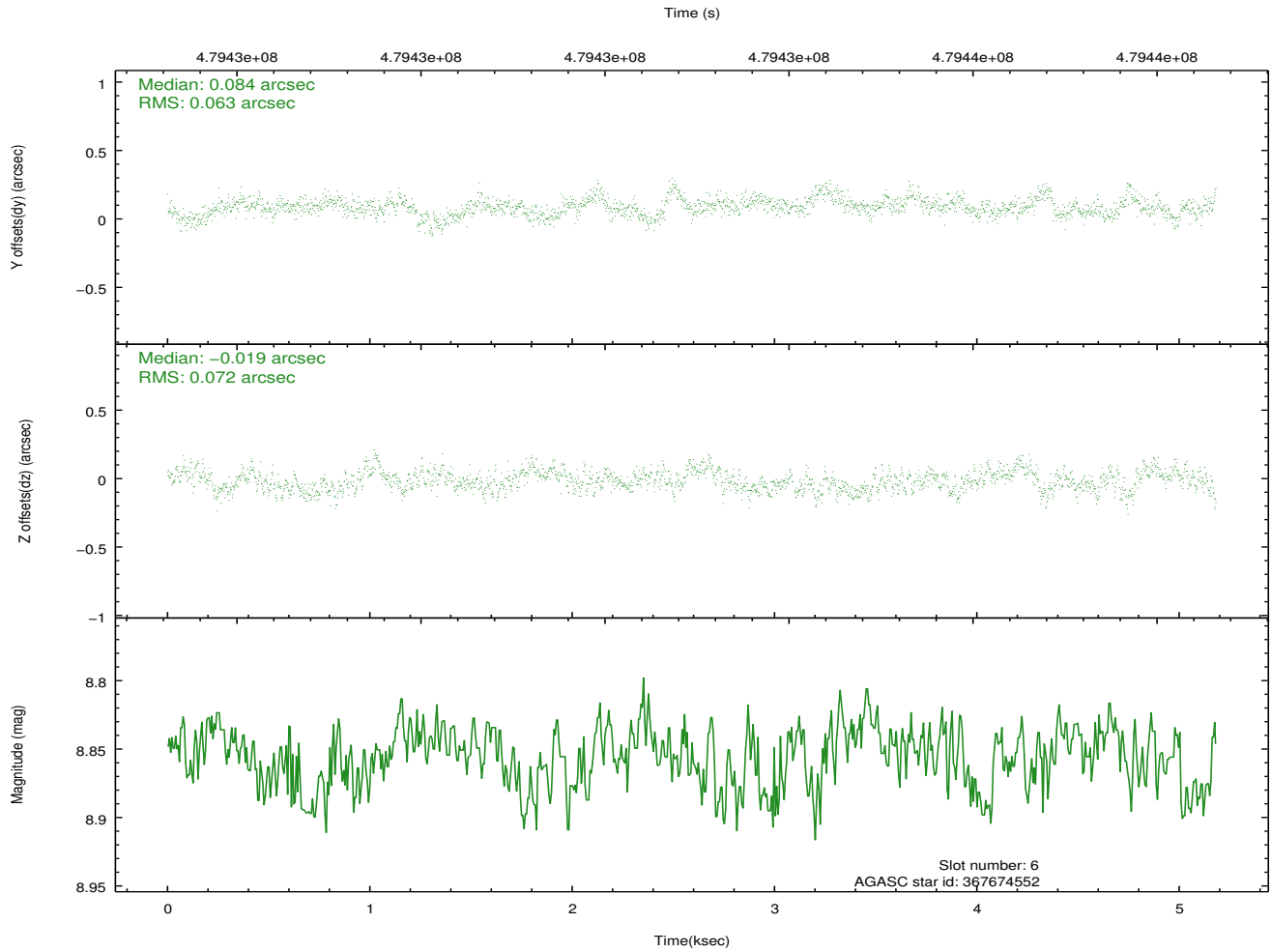
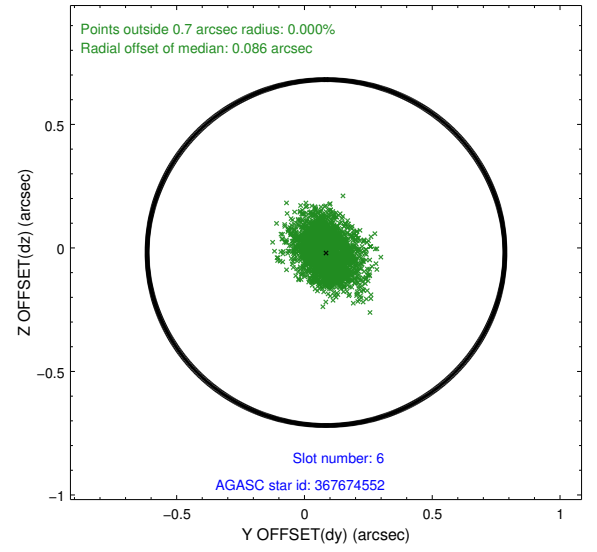
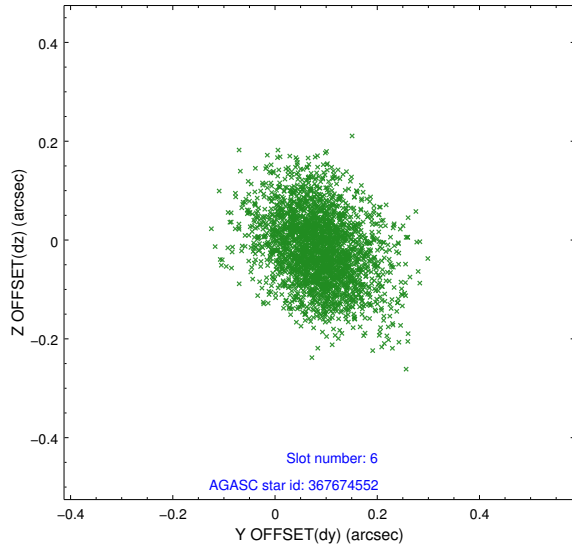
## 2.4.2 Slot 4



### 2.4.3 Slot 5

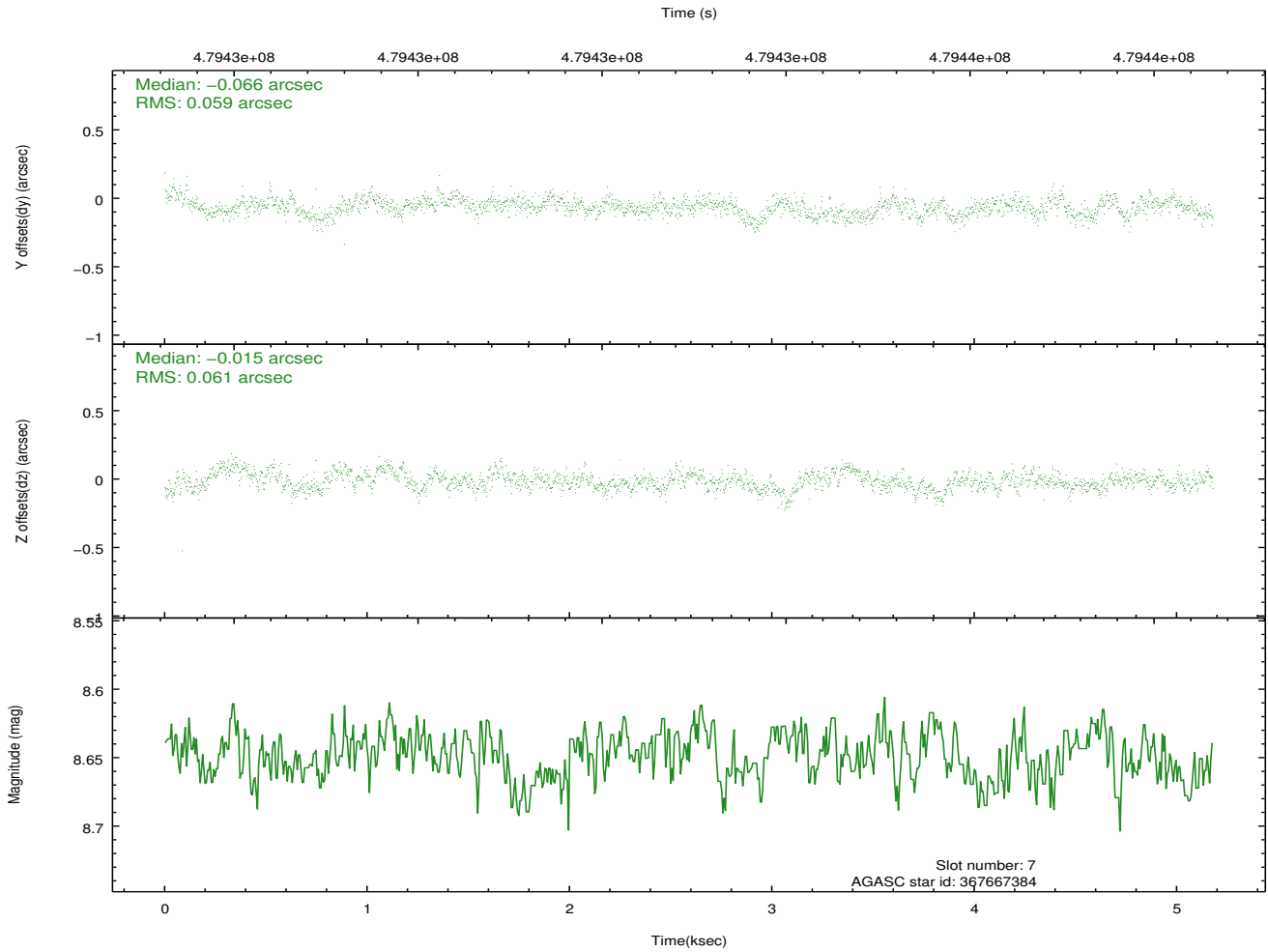
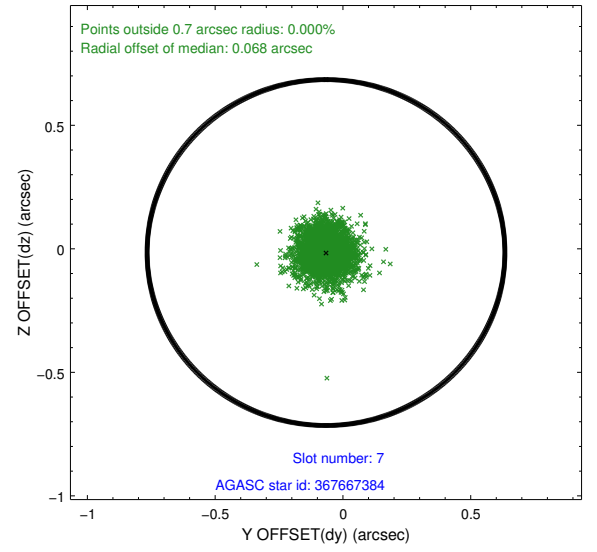
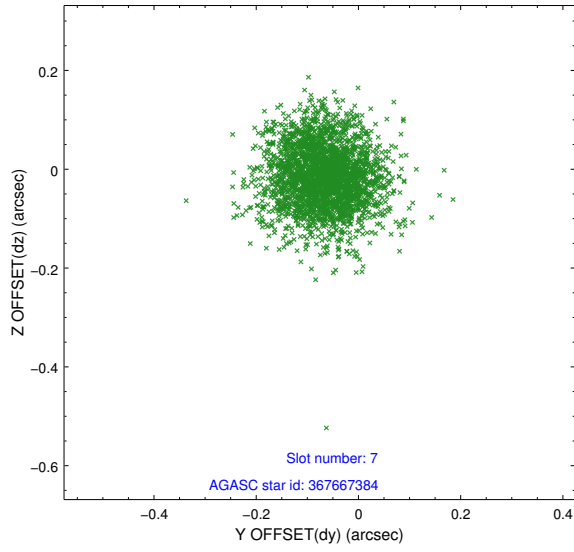


## 2.4.4 Slot 6



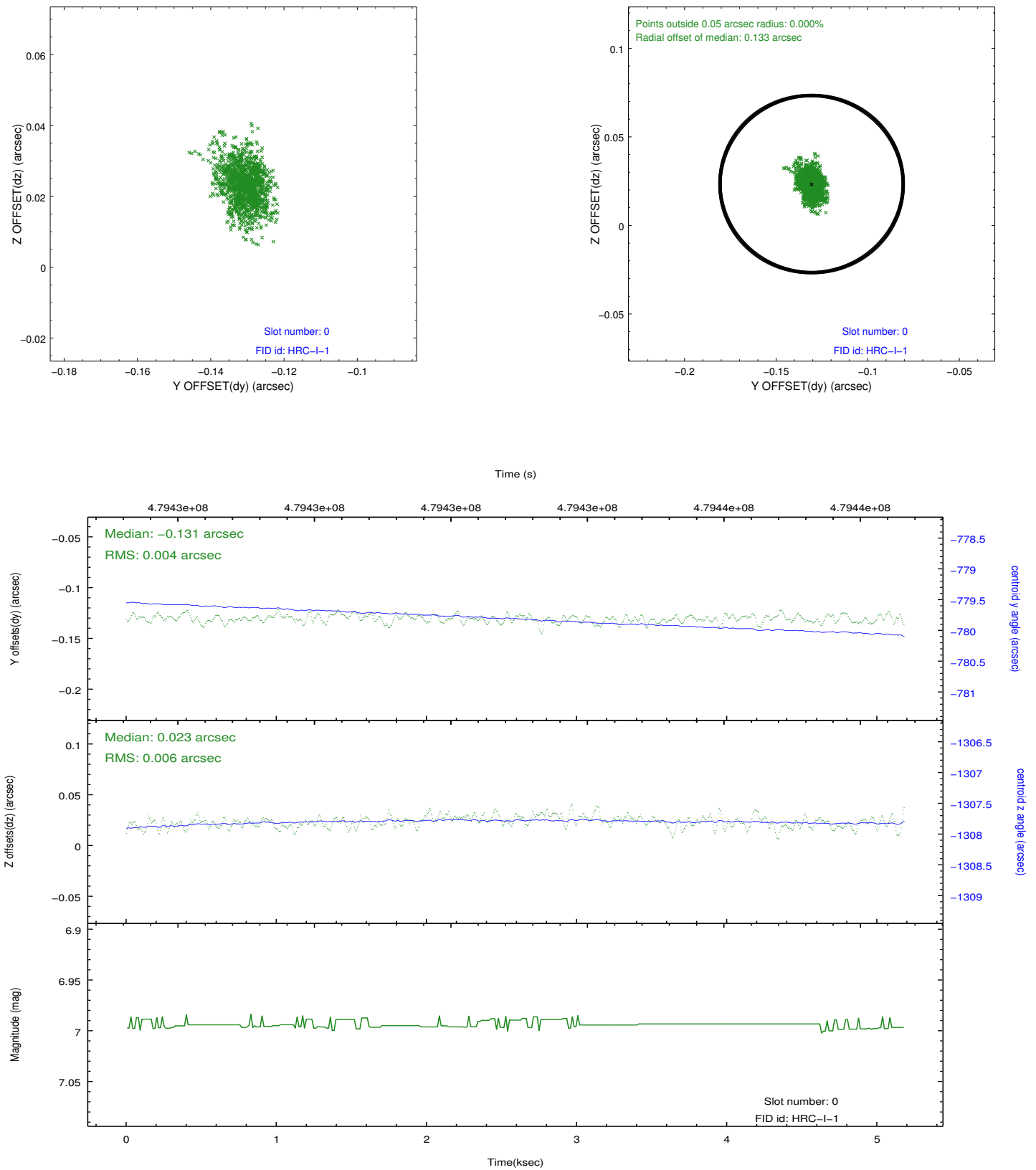


## 2.4.5 Slot 7

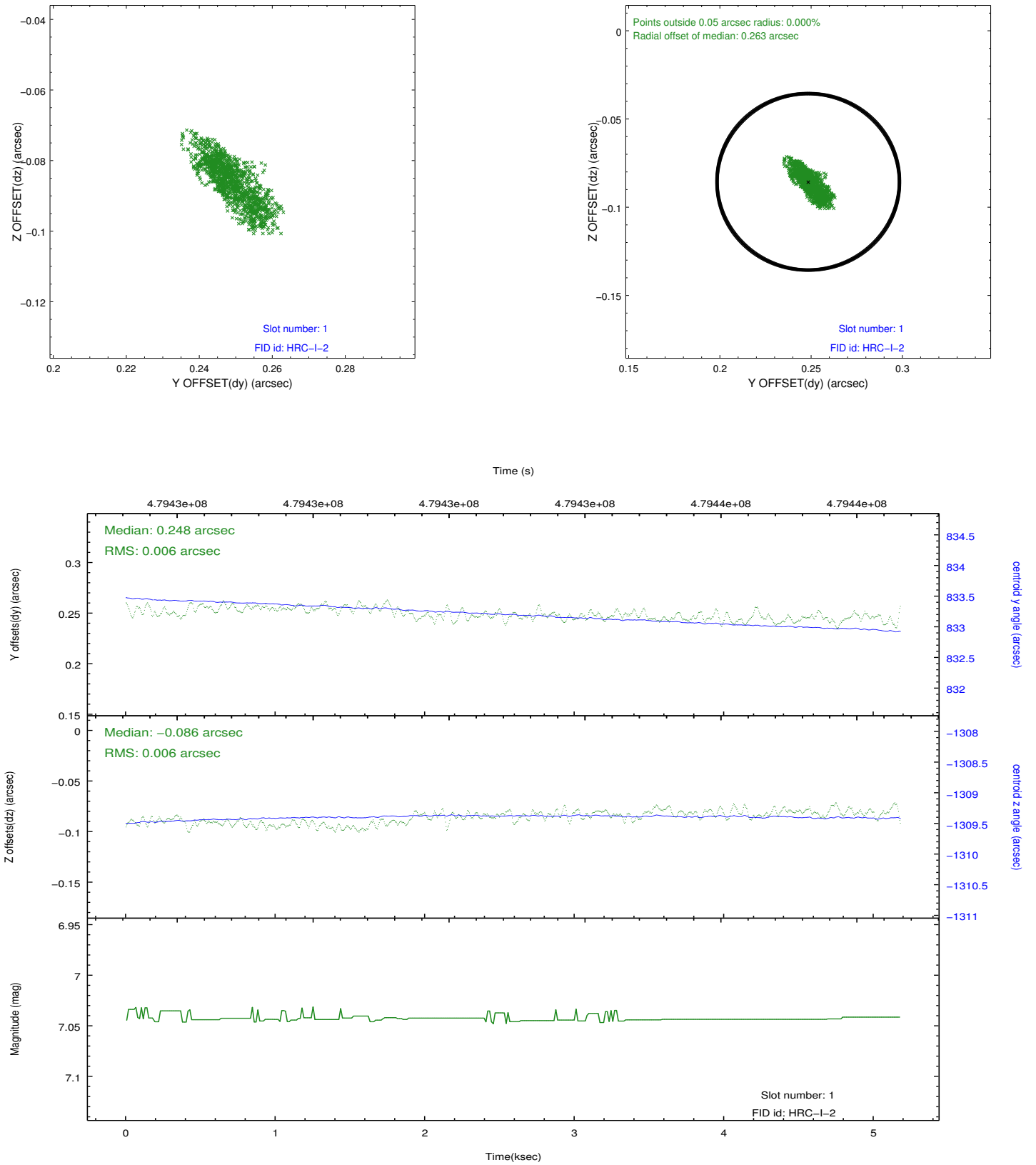


## 2.5 FID Slots

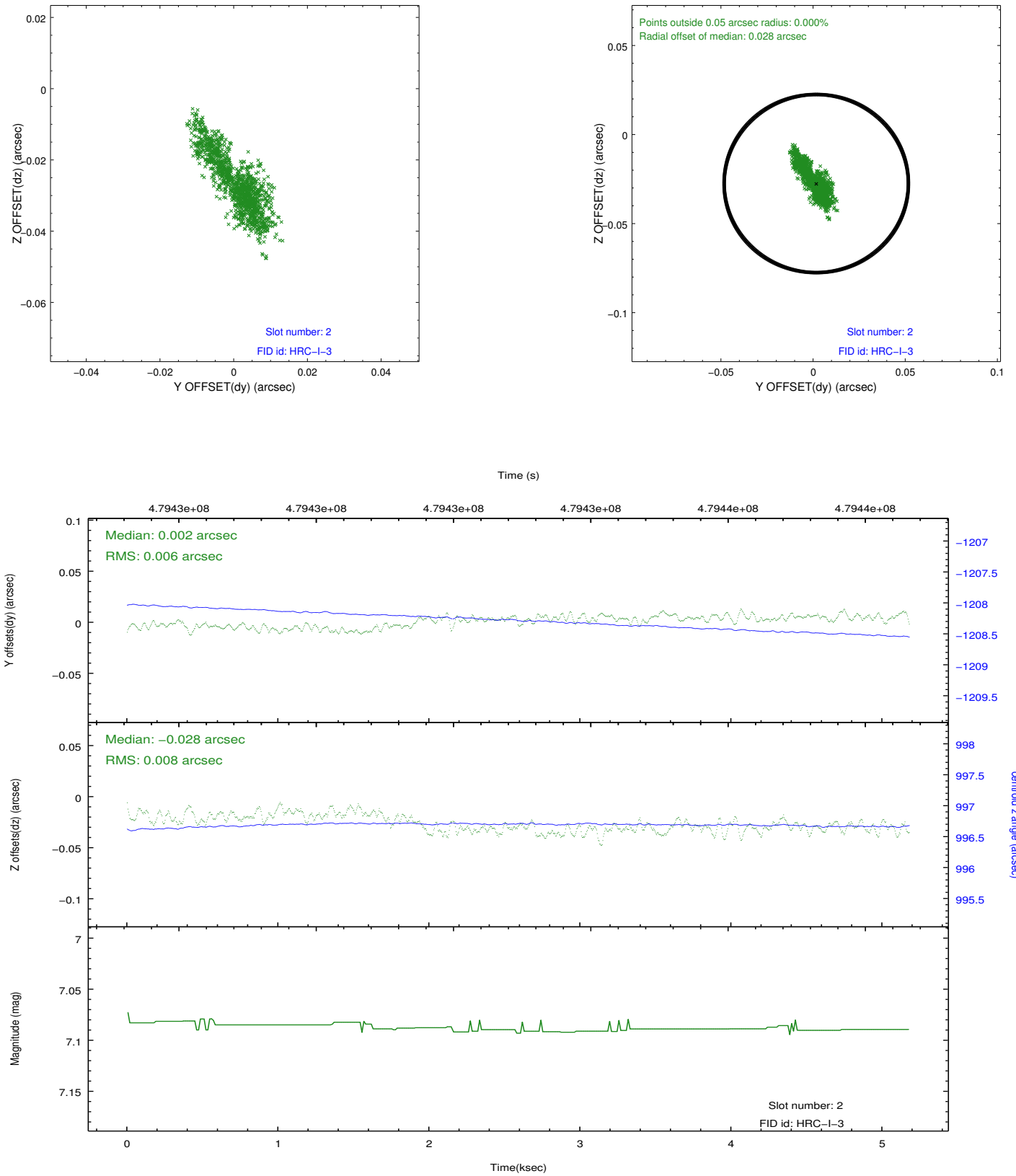
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2



# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.1795815304518

## A.2 Comments

These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.