

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 15401 - L2 Version 2
Chandra X-Ray Center

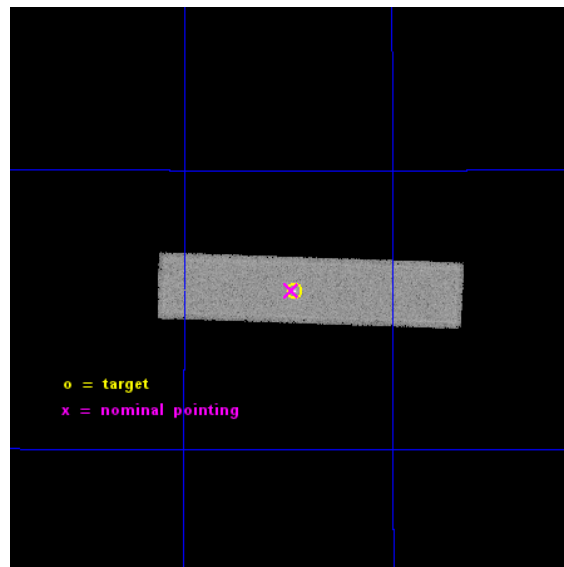
L2 Processing Date : Nov 30 2014

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1 Front

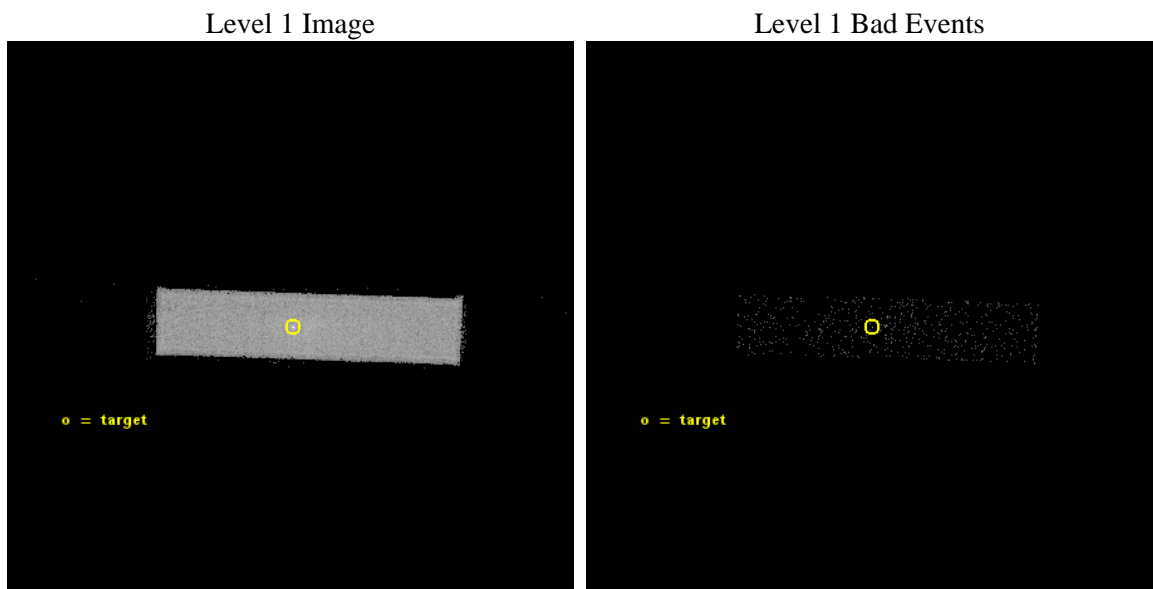
seq_num	291080	Sequence number
obs_id	15401	Observation id
title	AO-14 Measurements of the optical/UV Transmission of the HRC Filters.	Proposal title
observer	Dr. CXC Calibration	Principal investigator
object	Vega	Source name
ra_targ	279.235833	Observer's specified target RA [deg]
dec_targ	38.78475	Observer's specified target Dec [deg]
ra_nom	279.24195289097	Nominal RA [deg]
dec_nom	38.78508390881	Nominal Dec [deg]
roll_nom	1.802614823407	Nominal Roll [deg]
revision	2	Processing version of data
ontime	2158.6501160264	[s]
liveltime	2145.3479602141	Ontime multiplied by DTCOR
l2events	87052	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	2000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	2158.6501160264	[s]
caldbver	4.6.4	 	l1events	114395	Number of level 1 events
date	2014-12-01T00:48:07	Date and time of file creation			
revision	2	Processing version of data			

2.1.3 Events

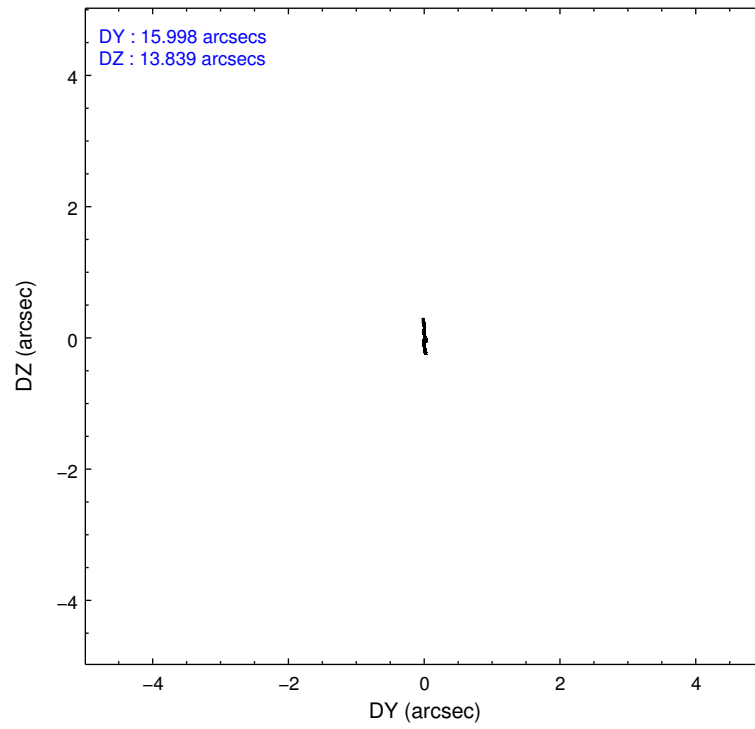
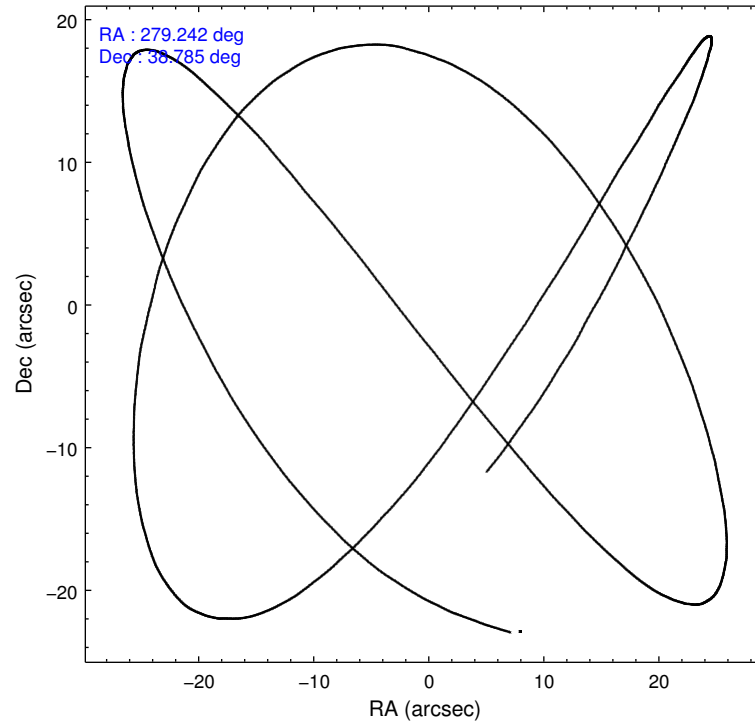
Level 1 Events

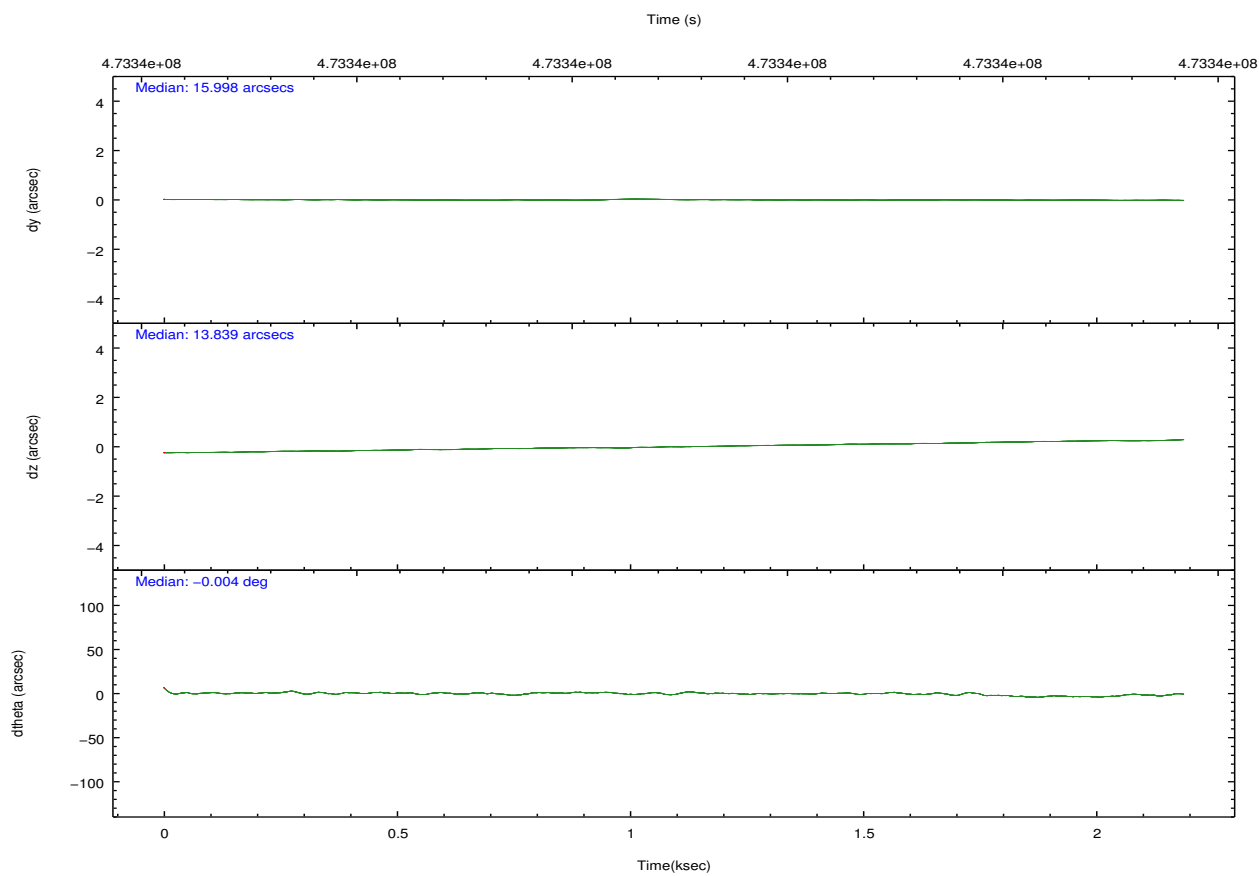
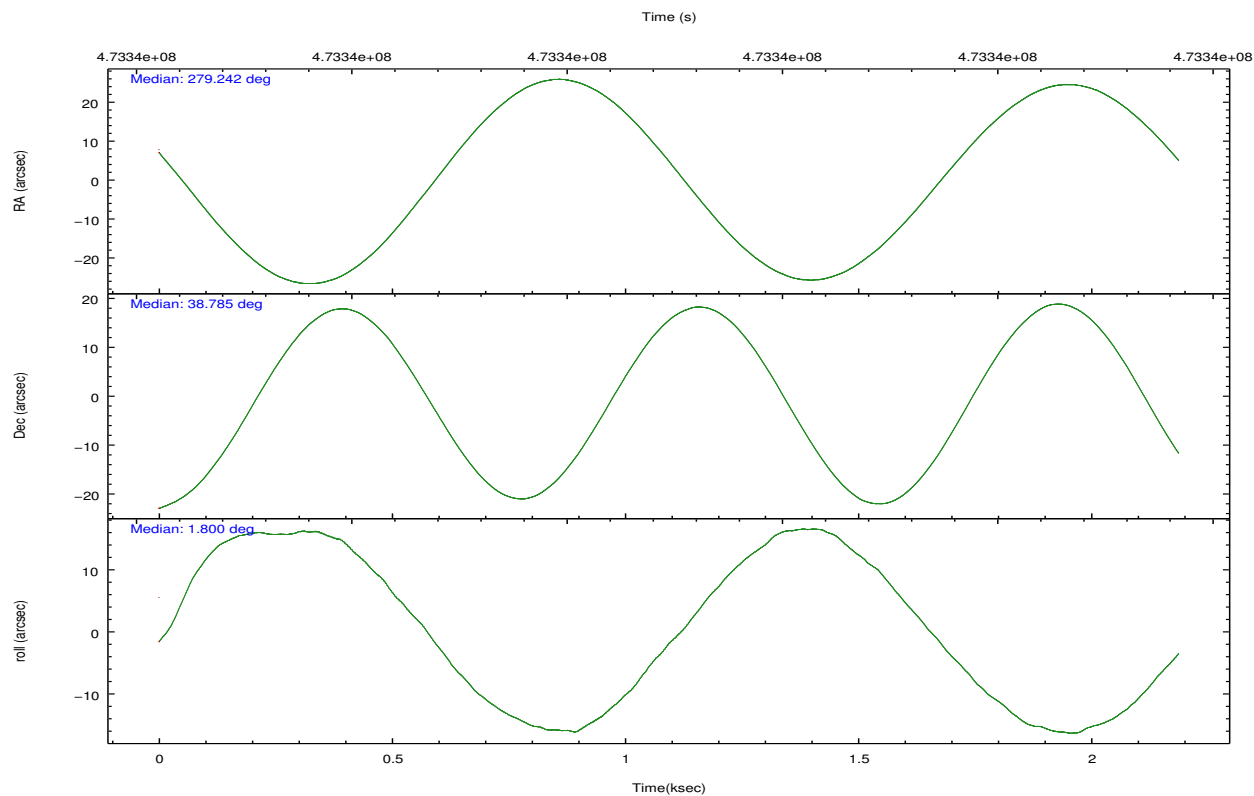
	segment 1	segment 2	segment 3
level 1 events	3	114388	4
rejected events	3	4631	4
rejected %	100%	4%	100%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	HRC	HRC	Obspar format version number	7	7
Detector	HRC-S	HRC-S	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	OBSERVING	OBSERVING			
Observation mode	POINTING	POINTING			
[deg] Pointing RA	279.211659	279.2419528909666			
[deg] Pointing Dec	38.768499	38.78508390880977			
[deg] Pointing Roll	1.754270	1.802614823407027			
[s] Window start time (MET)	470707267.184000	470707267.184000			
[s] Window stop time (MET)	475977667.184000	475977667.184000			
[mm] SIM focus pos	-1.533336	-1.526339935833849			
[mm] SIM defocus	7.710433287538843e-07	0.006996703570447904			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	473339834.184000	473339454.9887			
Observation start date	2012-12-31T11:16:07	2012-12-31T11:10:54			
[s] Observation end time (MET)	473341834.184000	473342656.06387			
Observation end date	2012-12-31T11:49:27	2012-12-31T12:04:16			

2.3 Aspect



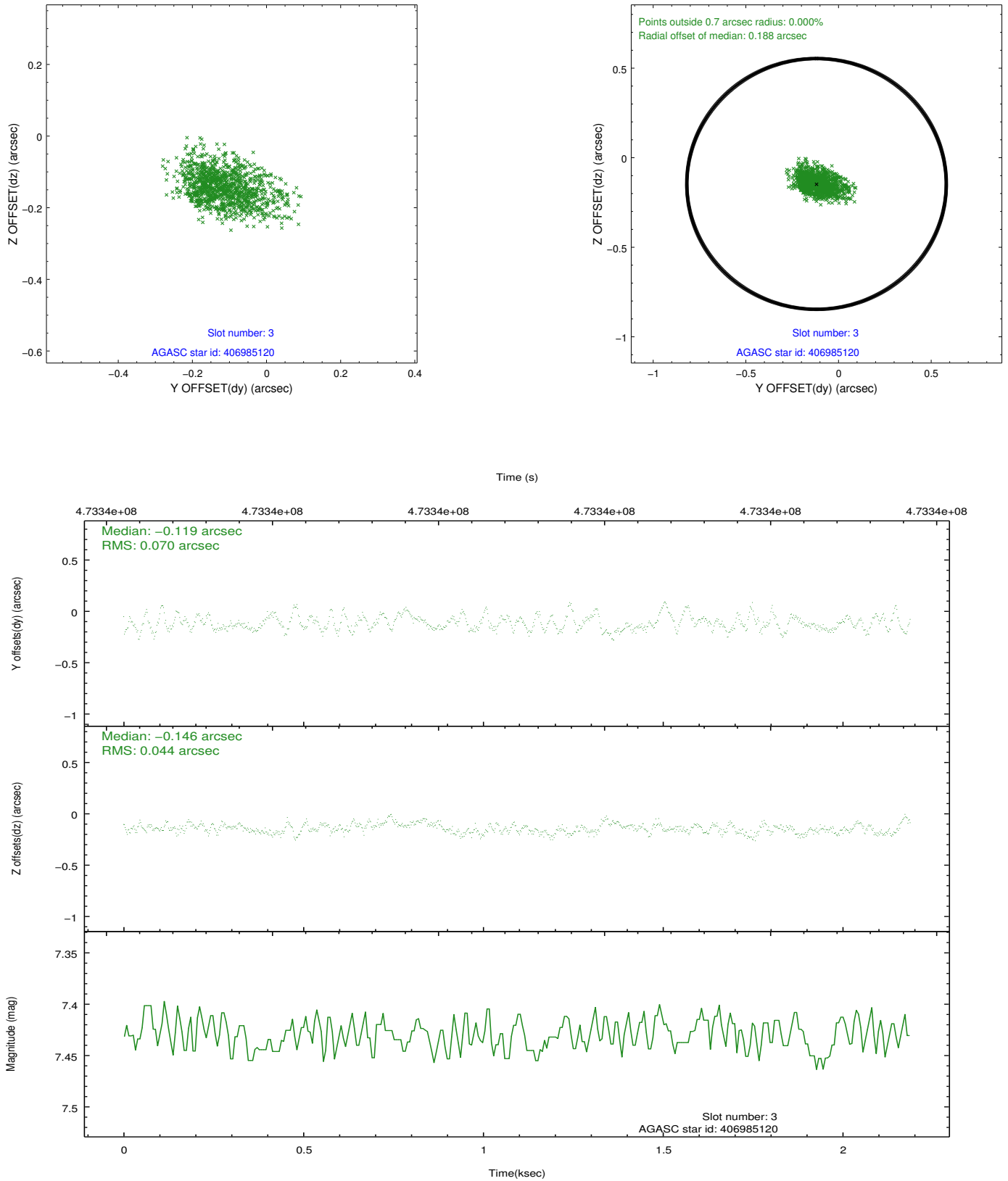


Slot Statistics

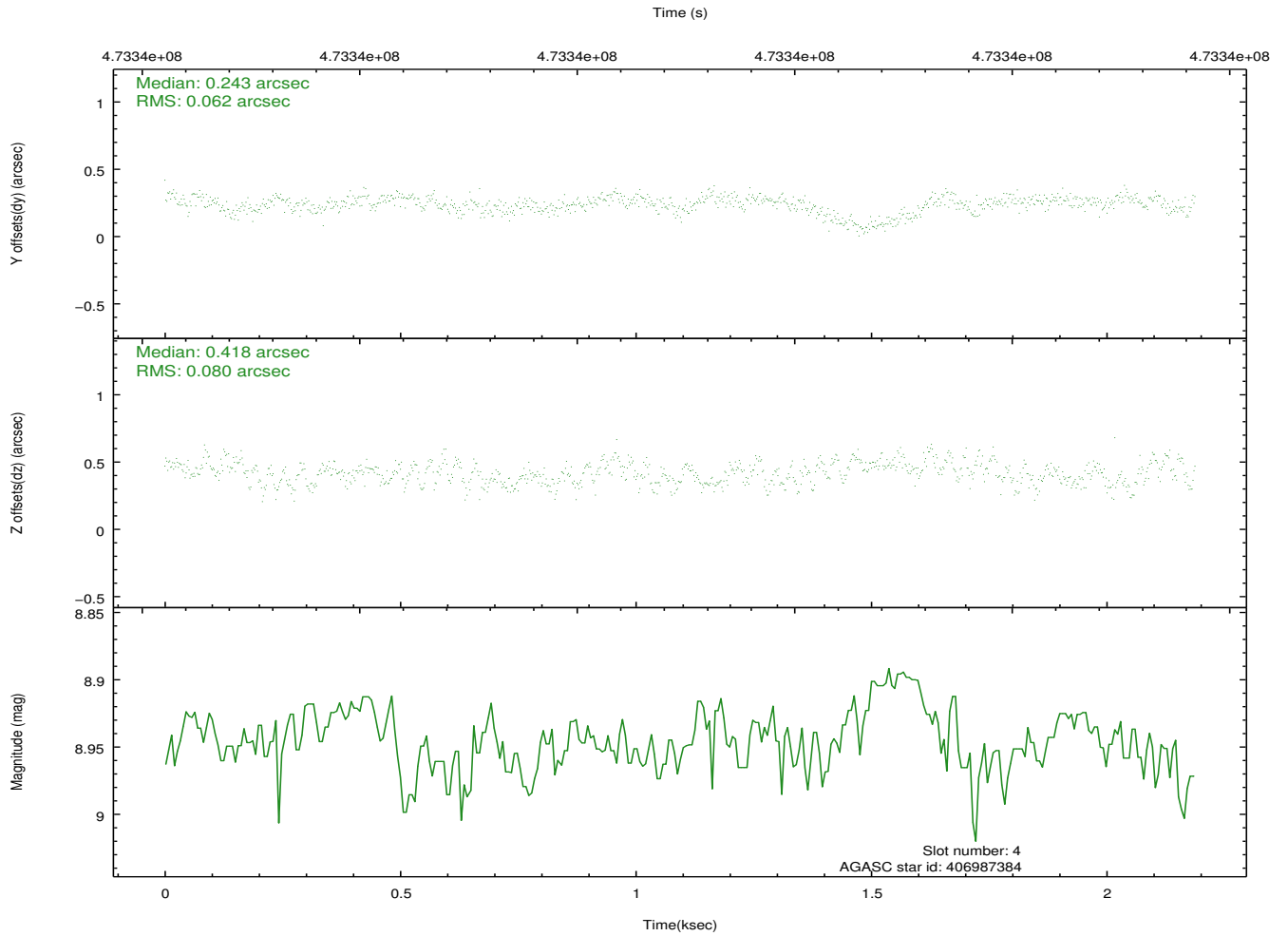
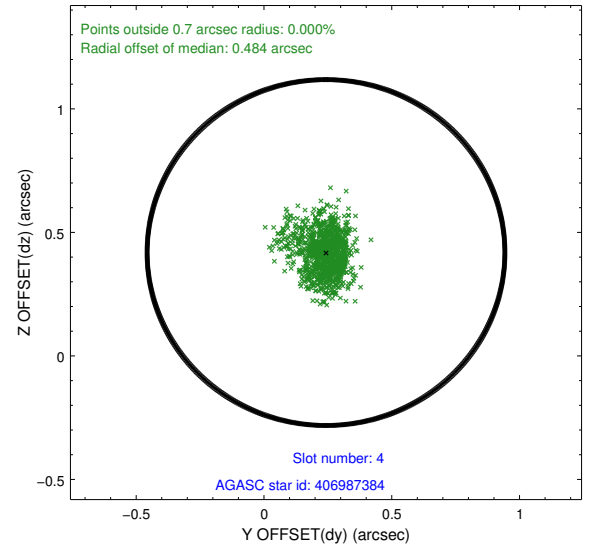
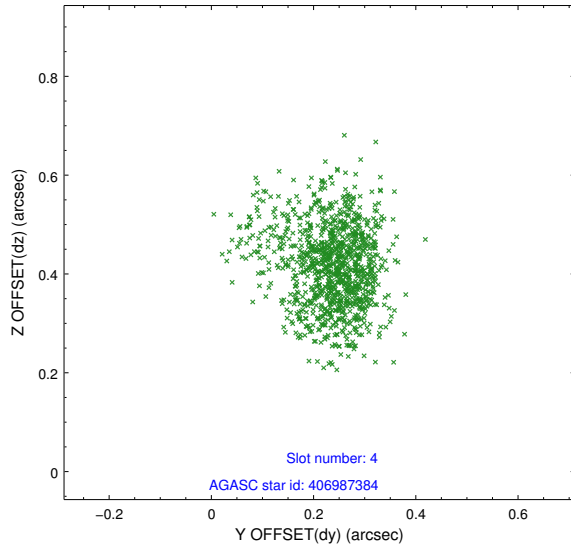
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		HRC-S-1	6.99	534	-0.047	-0.144	0.006	0.011	0.000000	0.000000	-1170.55	-462.66
1	FID		HRC-S-2	6.96	534	0.218	-0.099	0.011	0.020	0.000000	0.000000	1227.18	-456.11
2	FID		HRC-S-4	6.93	534	0.232	-0.061	0.010	0.019	0.000000	0.000000	1230.26	568.66
3	GUIDE	used	406985120	7.43	1068	-0.119	-0.146	0.085	0.152	278.839732	38.894839	-1027.56	487.55
4	GUIDE	used	406987384	8.95	1066	0.243	0.418	0.108	0.186	278.815518	38.115336	-1193.87	-2313.64
5	GUIDE	used	406987272	6.95	1068	0.145	0.167	0.059	0.095	278.536588	38.437504	-1940.04	-1128.07
6	GUIDE	used	407521232	8.63	1068	-0.062	-0.230	0.095	0.149	279.628883	39.431715	1231.03	2351.52
7	GUIDE	used	407513096	8.14	1066	-0.207	-0.209	0.071	0.115	279.928965	39.436841	2068.50	2352.98

2.4 Star Slots

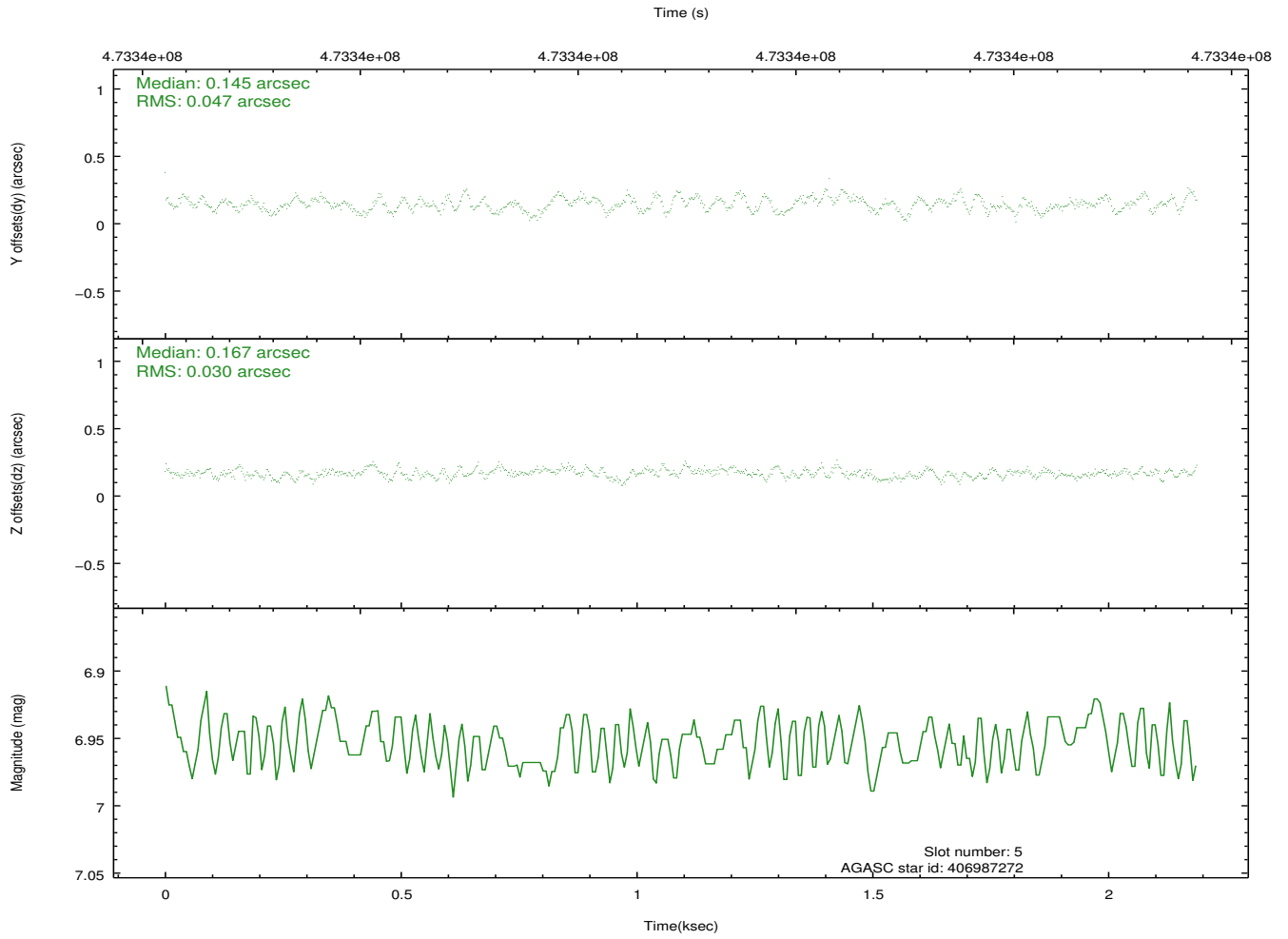
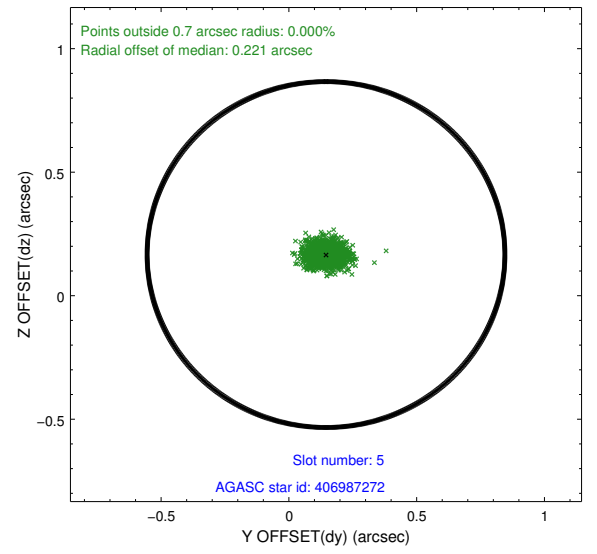
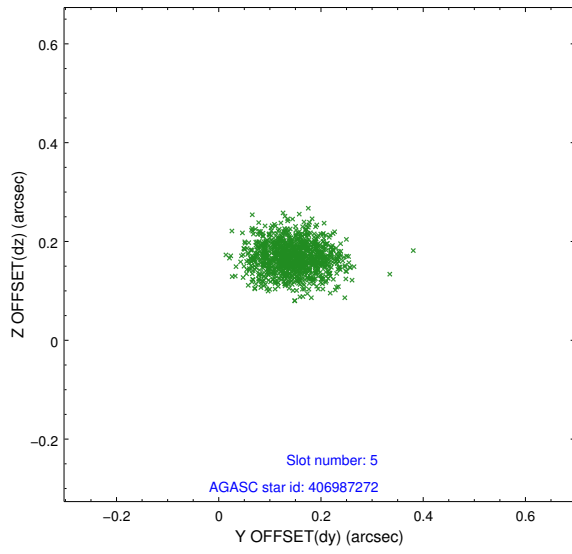
2.4.1 Slot 3



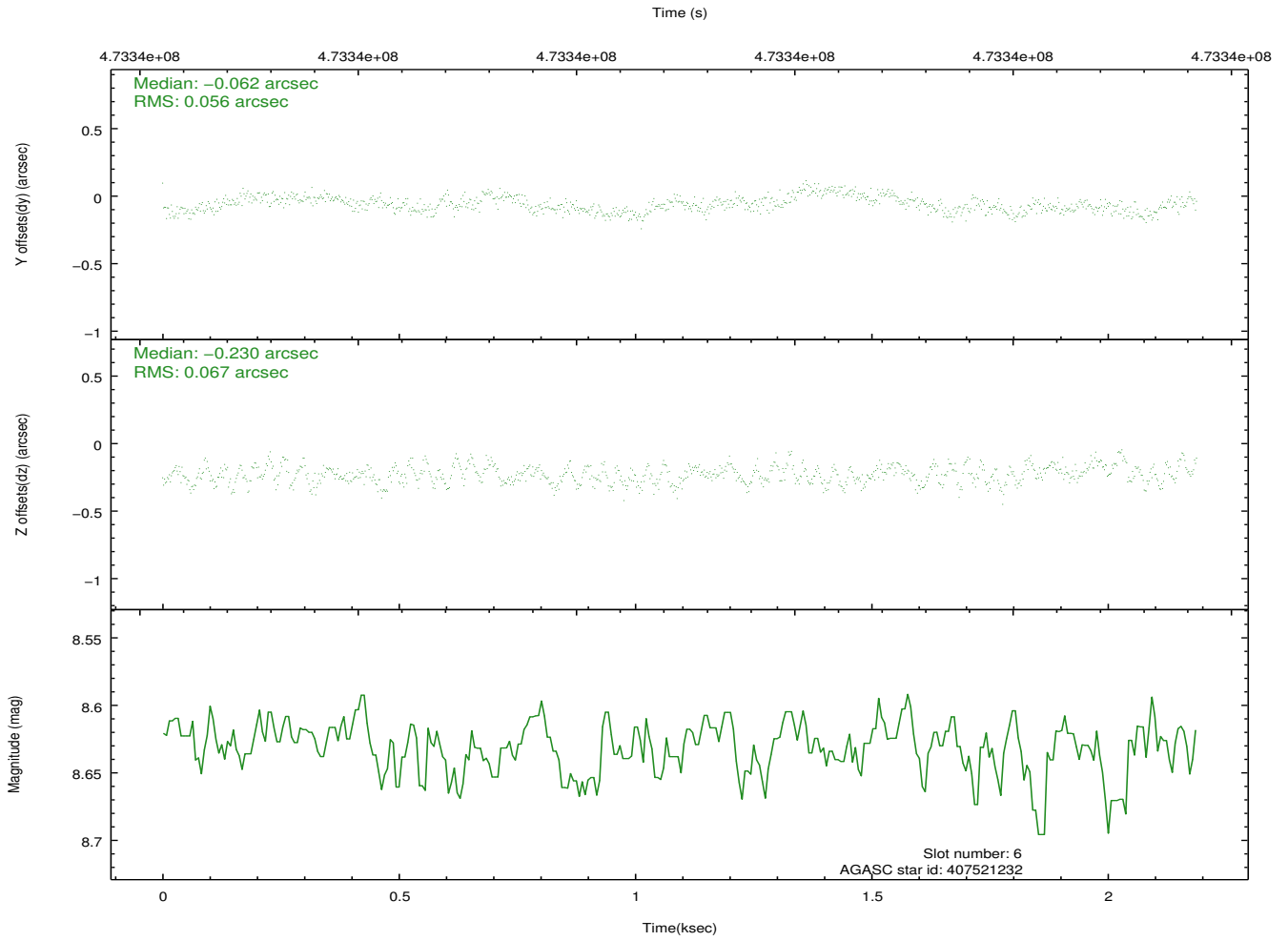
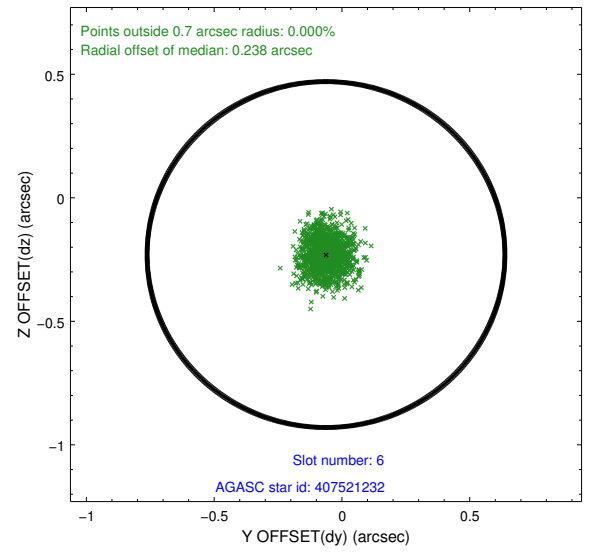
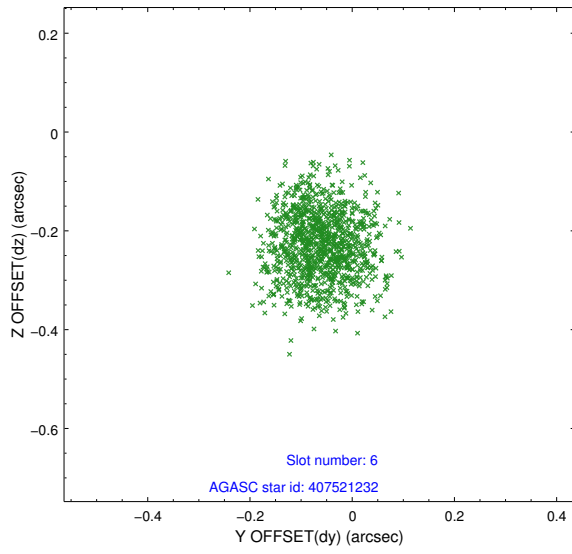
2.4.2 Slot 4



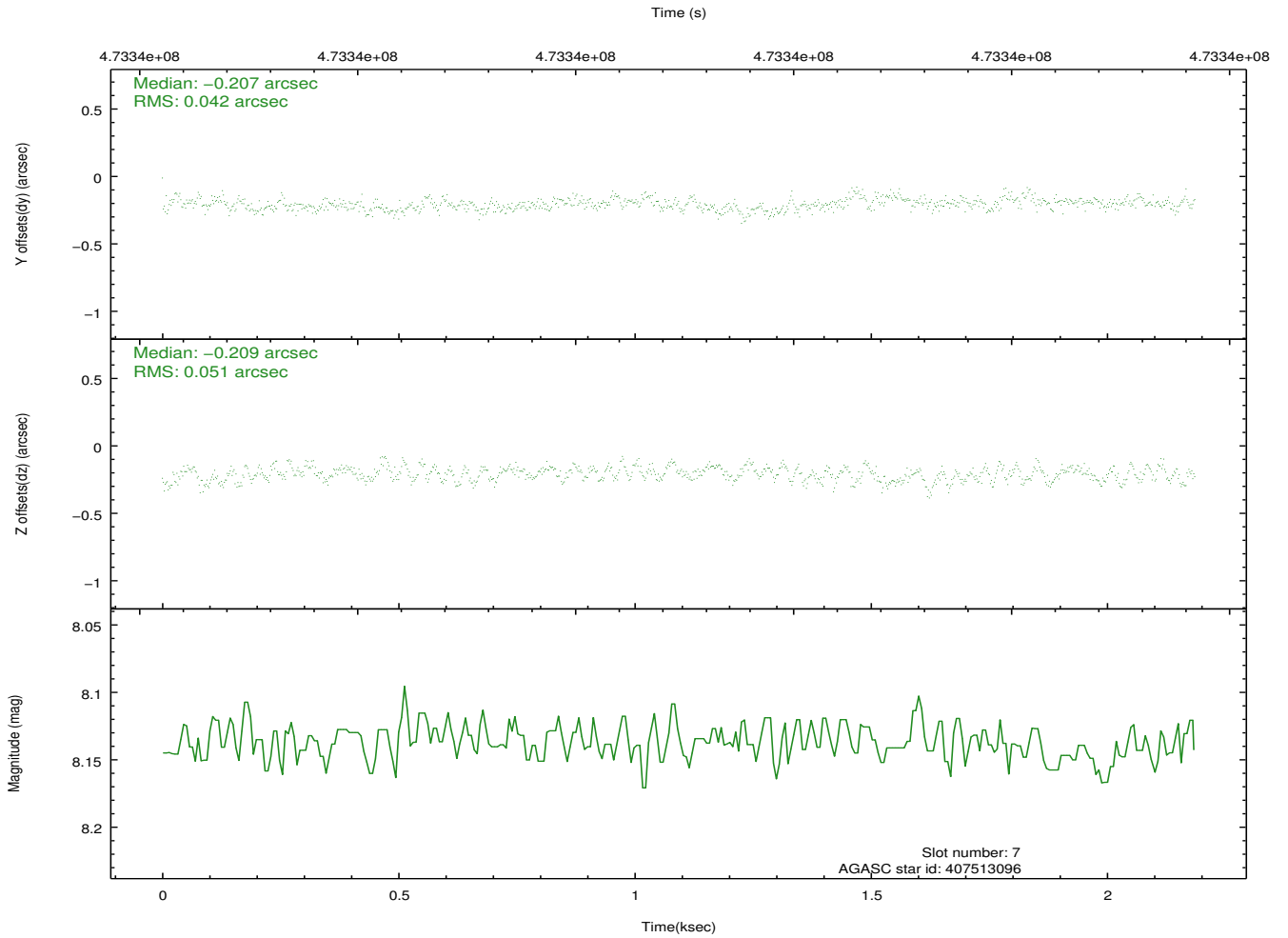
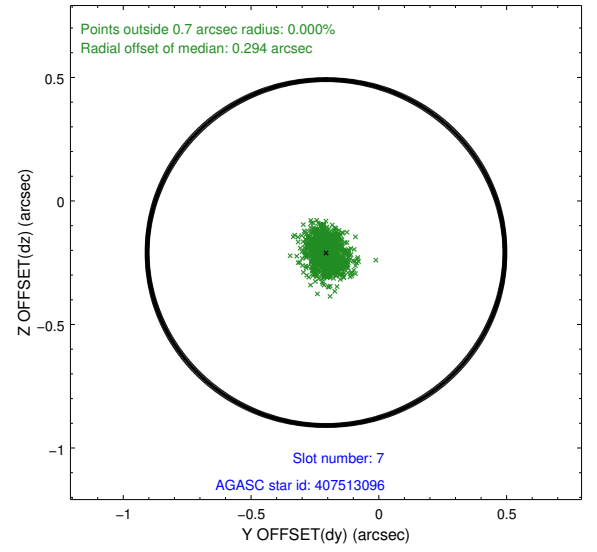
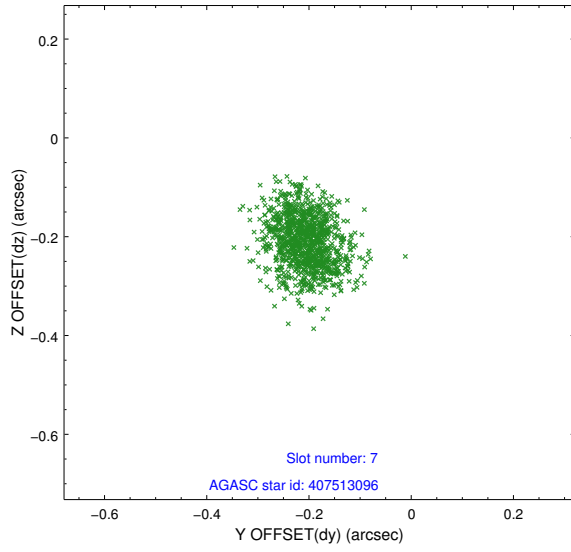
2.4.3 Slot 5



2.4.4 Slot 6

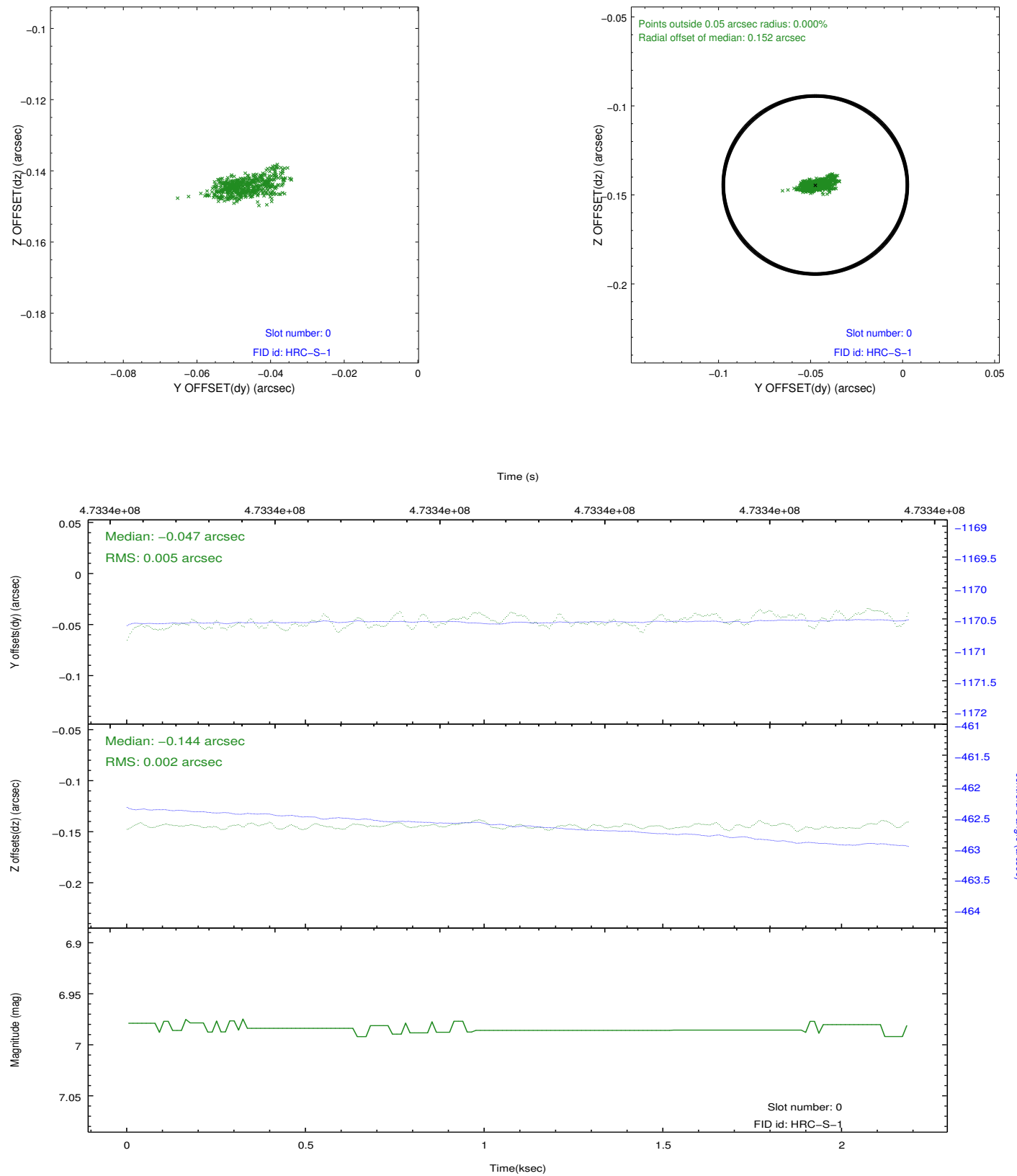


2.4.5 Slot 7

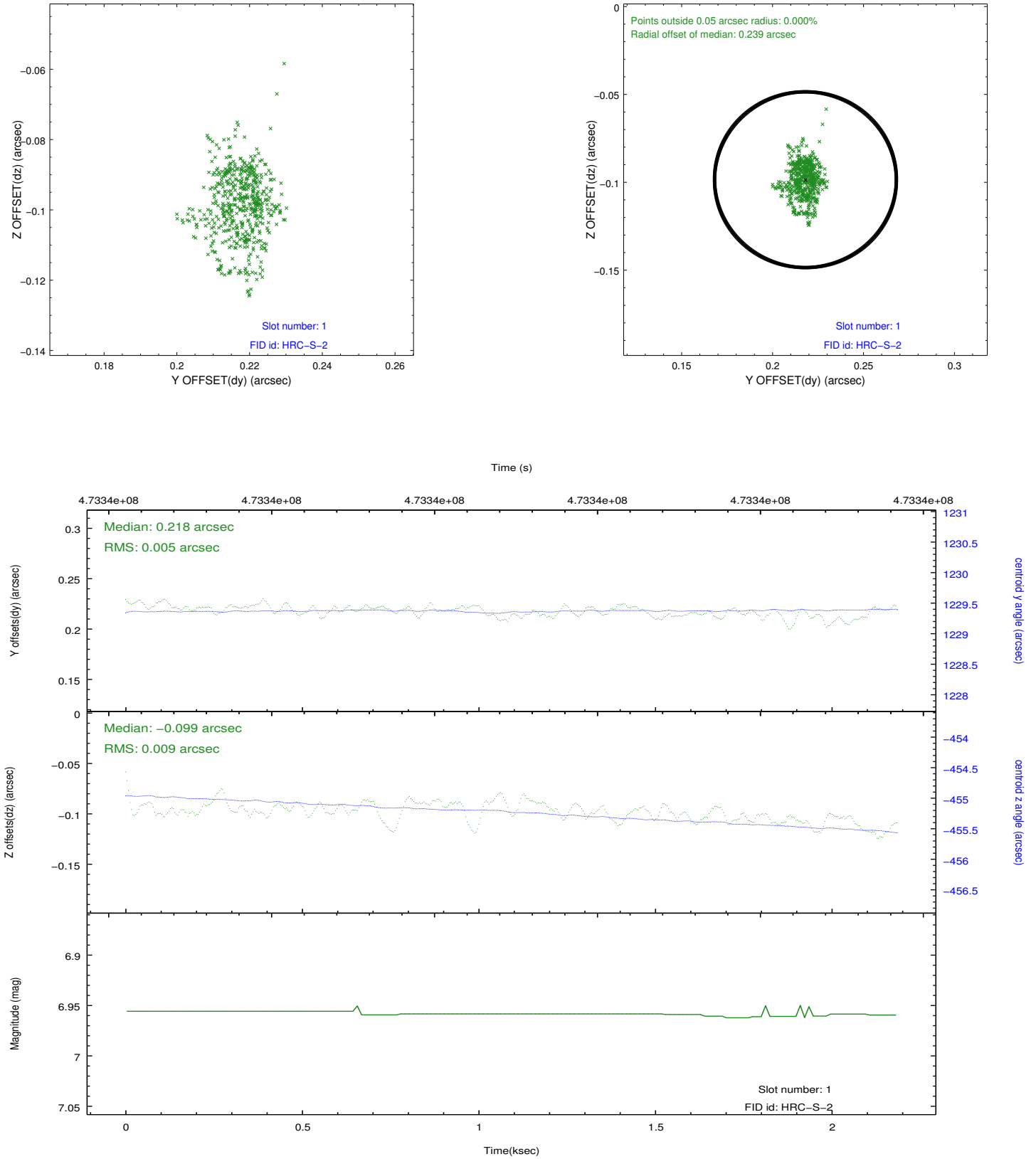


2.5 FID Slots

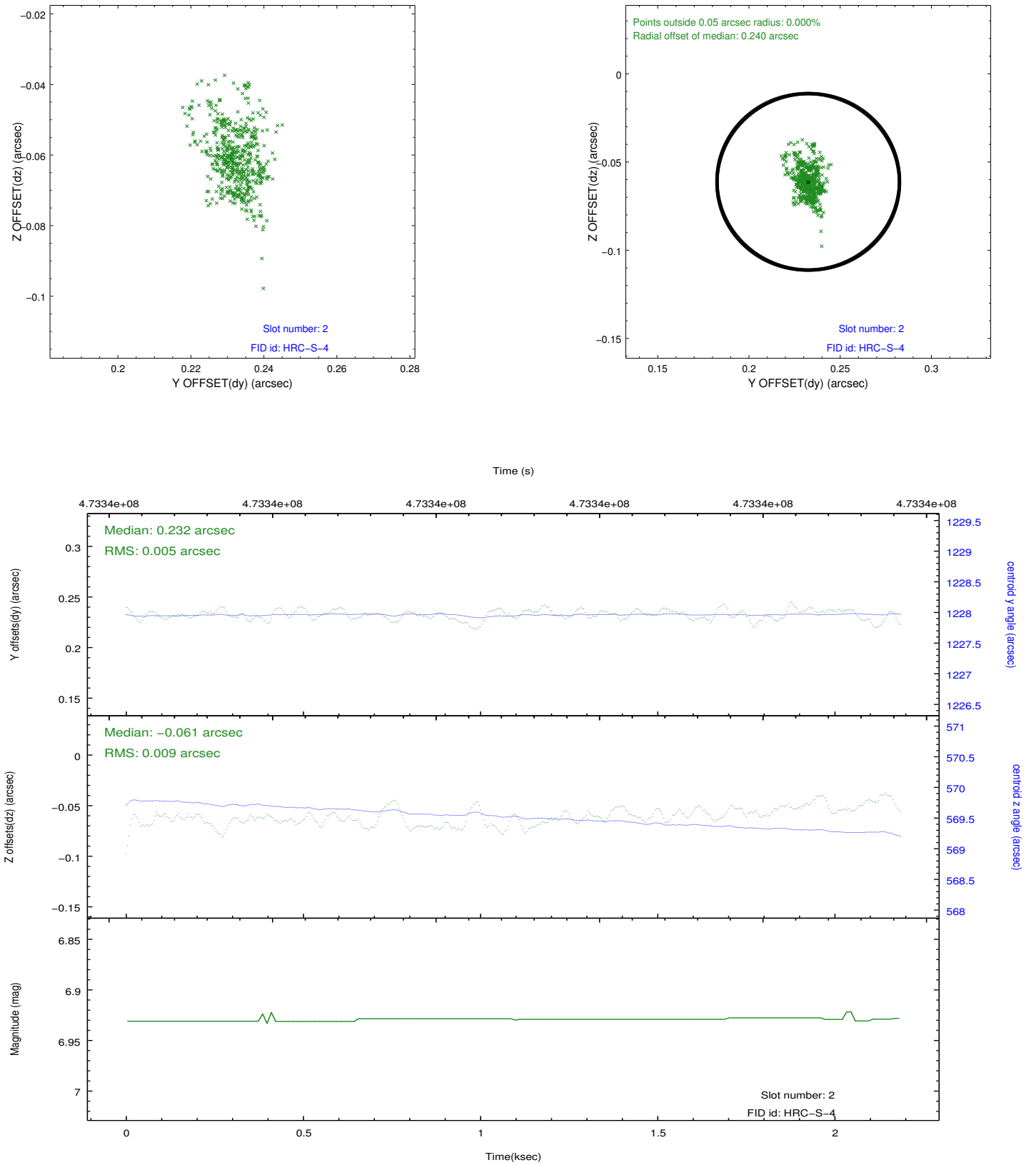
2.5.1 Slot 0



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)	2014.12.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.1586501160264

A.2 Comments

Window preference met.

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.