

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 14702 - L2 Version 2
Chandra X-Ray Center

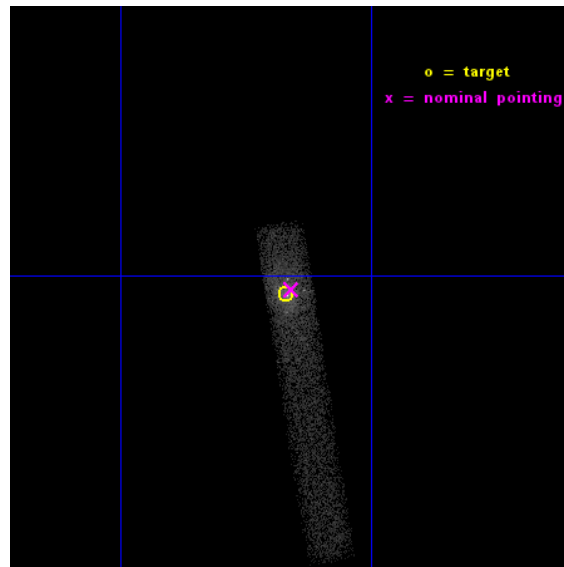
L2 Processing Date : Dec 2 2014

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1 Front

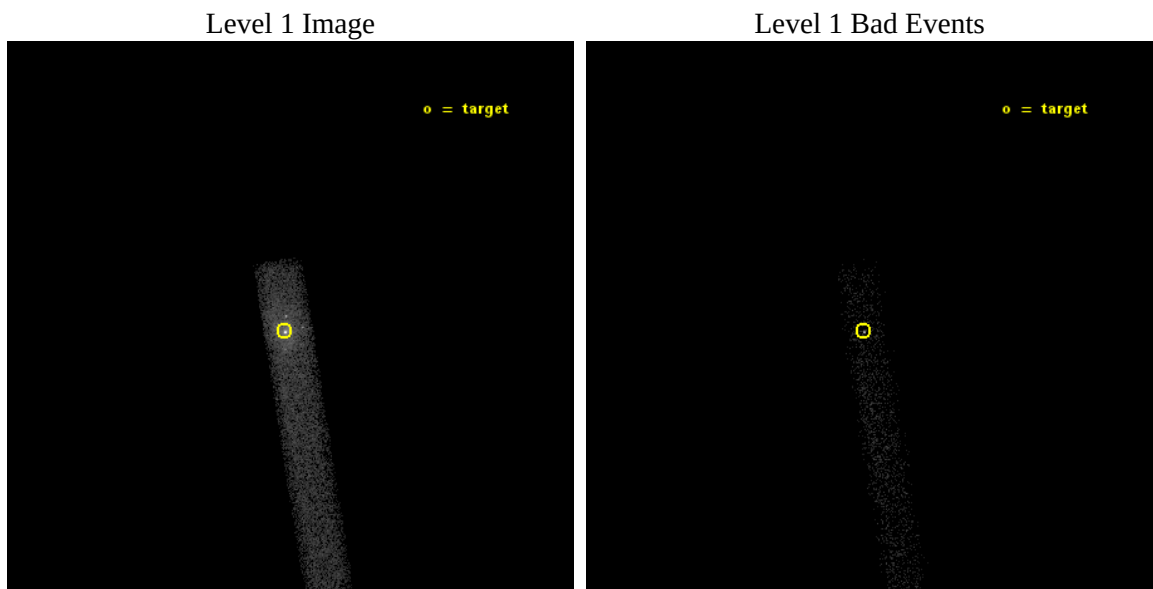
seq_num	501830	Sequence number
obs_id	14702	Observation id
title	PROMPT STUDY OF MAGNETAR OUTBURSTS WITH CHANDRA	Proposal title
observer	Dr. Nanda Rea	Principal investigator
object	NEWMAGNETAR	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.417458	Observer's specified target RA [deg]
dec_targ	-29.007889	Observer's specified target Dec [deg]
ra_nom	266.41483802882	Nominal RA [deg]
dec_nom	-29.00586163163	Nominal Dec [deg]
roll_nom	80.73708175775	Nominal Roll [deg]
revision	2	Processing version of data
ontime	15070.397390544	Sum of GTIs [s]
livetime	13668.054952426	Livetime [s]
ontime7	15070.397390544	Sum of GTIs [s]
l2events	23499	Number of level 2 events



2 OBI

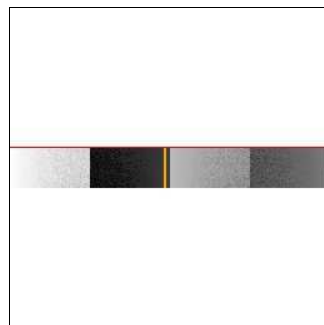
2.1 OBI

2.1.1 Images



2.1.2 Bias

Chip 7



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.3	Processing system revision	ontime	15070.397390544	Sum of GTIs [s]
caldsver	4.6.4	 	ontime7	15070.397390544	Sum of GTIs [s]
date	2014-12-03T03:59:17	Date and time of file creation	l1events	31670	Number of level 1 events
revision	2	Processing version of data			

2.1.4 Events

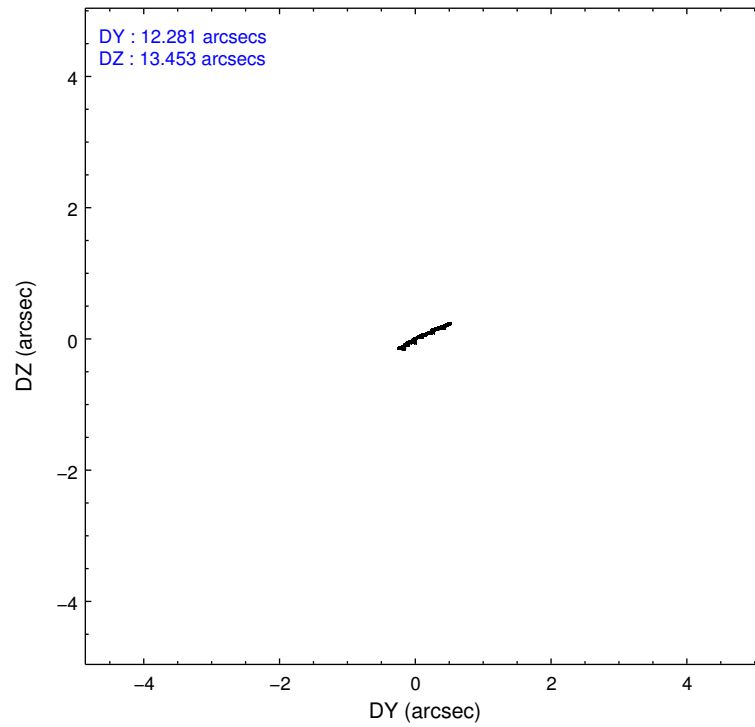
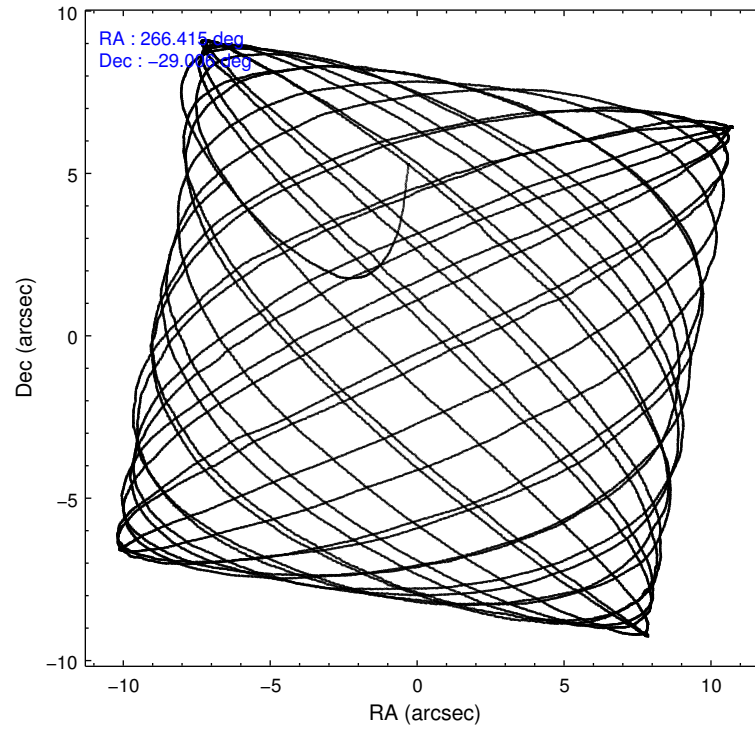
	ccd 7
level 1 events	31670
rejected events	7802
rejected %	24%

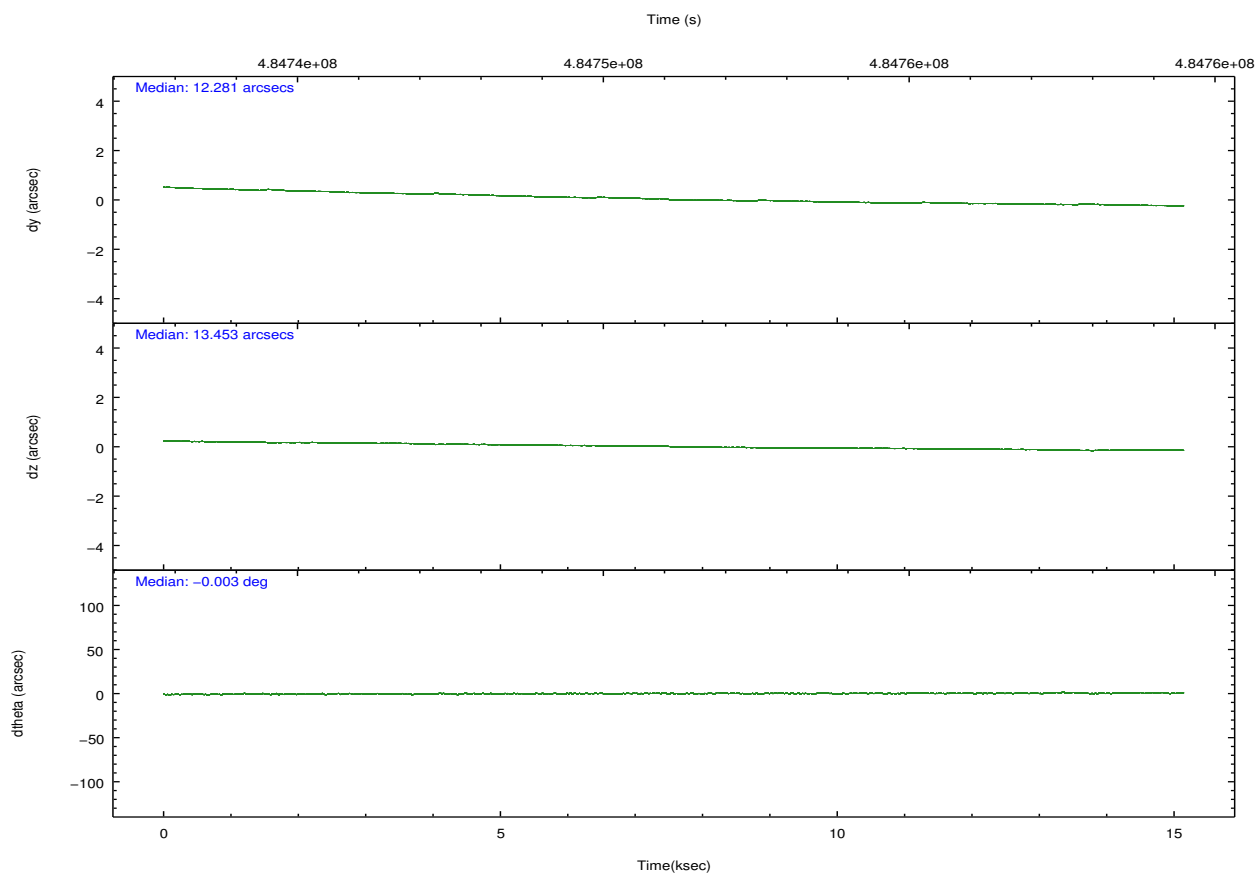
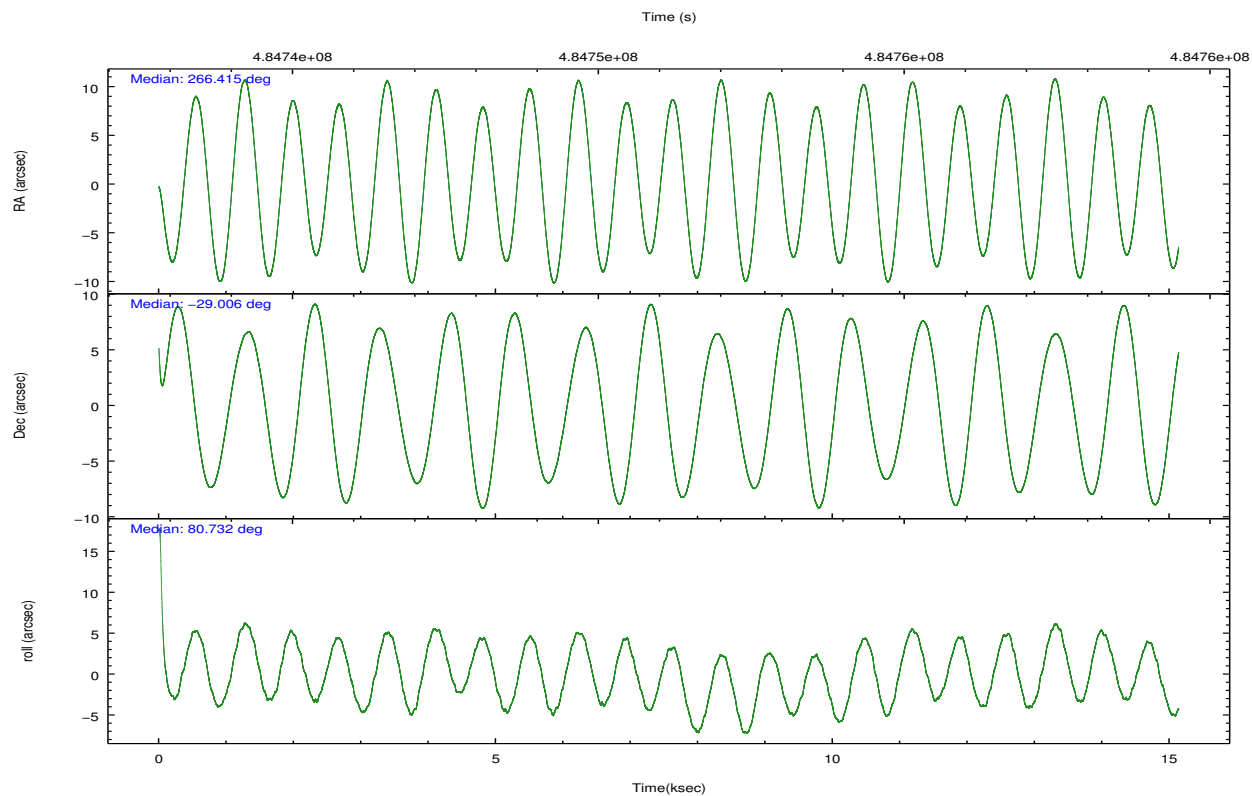
	ccd 7
grade 0 events	3826
	12%
grade 1 events	51
	0%
grade 2 events	5237
	16%
grade 3 events	2799
	8%
grade 4 events	2715
	8%
grade 5 events	1780
	5%
grade 6 events	9294
	29%
grade 7 events	5968
	18%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.426347	266.4148380288174	Subarray requested	CUSTOM	1/8
[deg] Pointing Dec	-29.031313	-29.00586163163046	Subarray start row	449	449
[deg] Pointing Roll	80.586016	80.73708175775019	Subarray row count	128	128
[mm] SIM focus pos	-0.684267	-0.6828225247311905	Alternating exposures requested	N	N
[mm] SIM defocus	0	0.001444936568705701	[s] Primary exposure time	0.000000	0.4
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	484743726.184000	484742330.50526			
Observation start date	2013-05-12T11:00:59	2013-05-12T10:38:50			
[s] Observation end time (MET)	484758726.184000	484760156.79373			
Observation end date	2013-05-12T15:10:59	2013-05-12T15:35:56			
Read mode	TIMED	TIMED			

2.3 Aspect



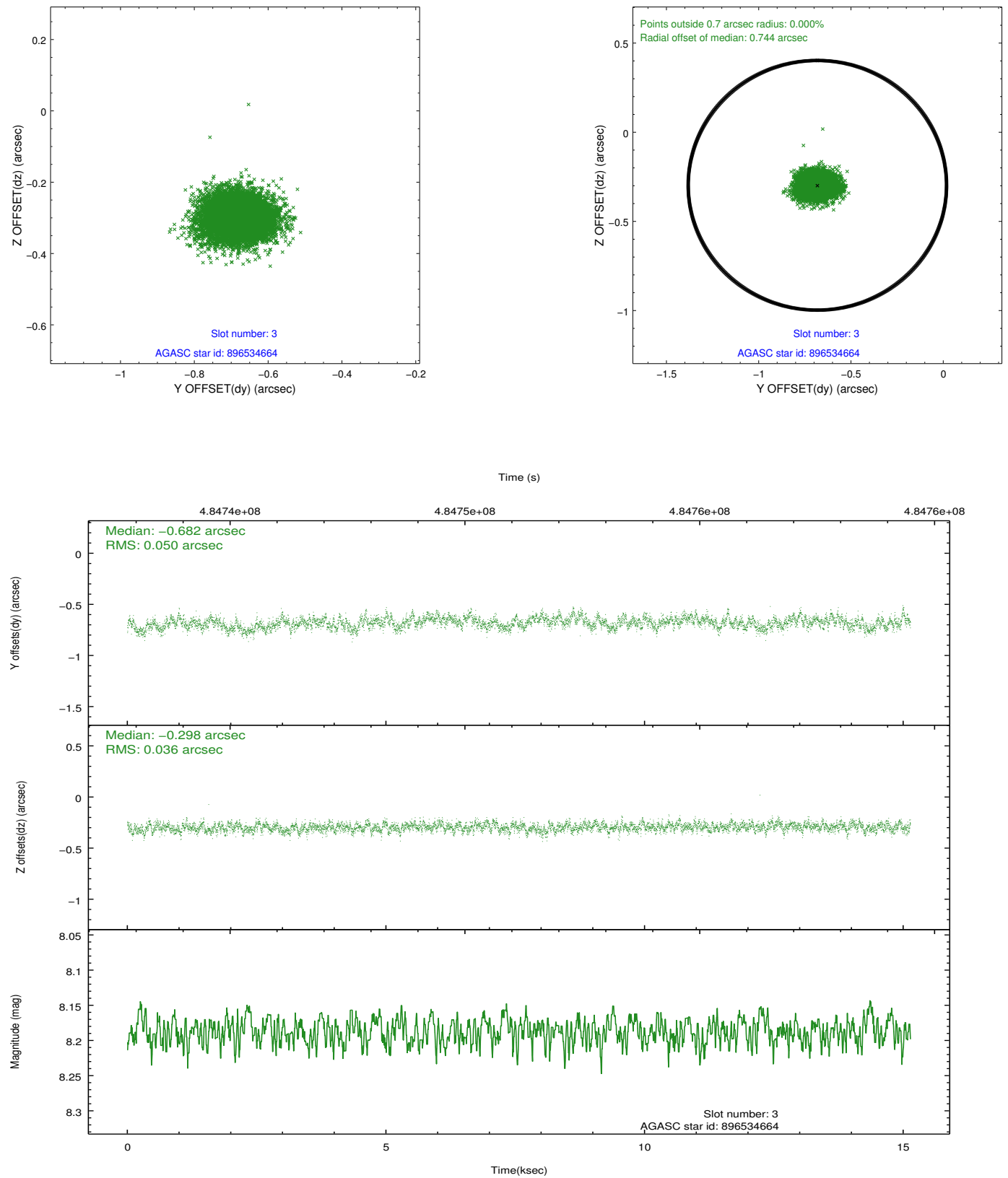


Slot Statistics

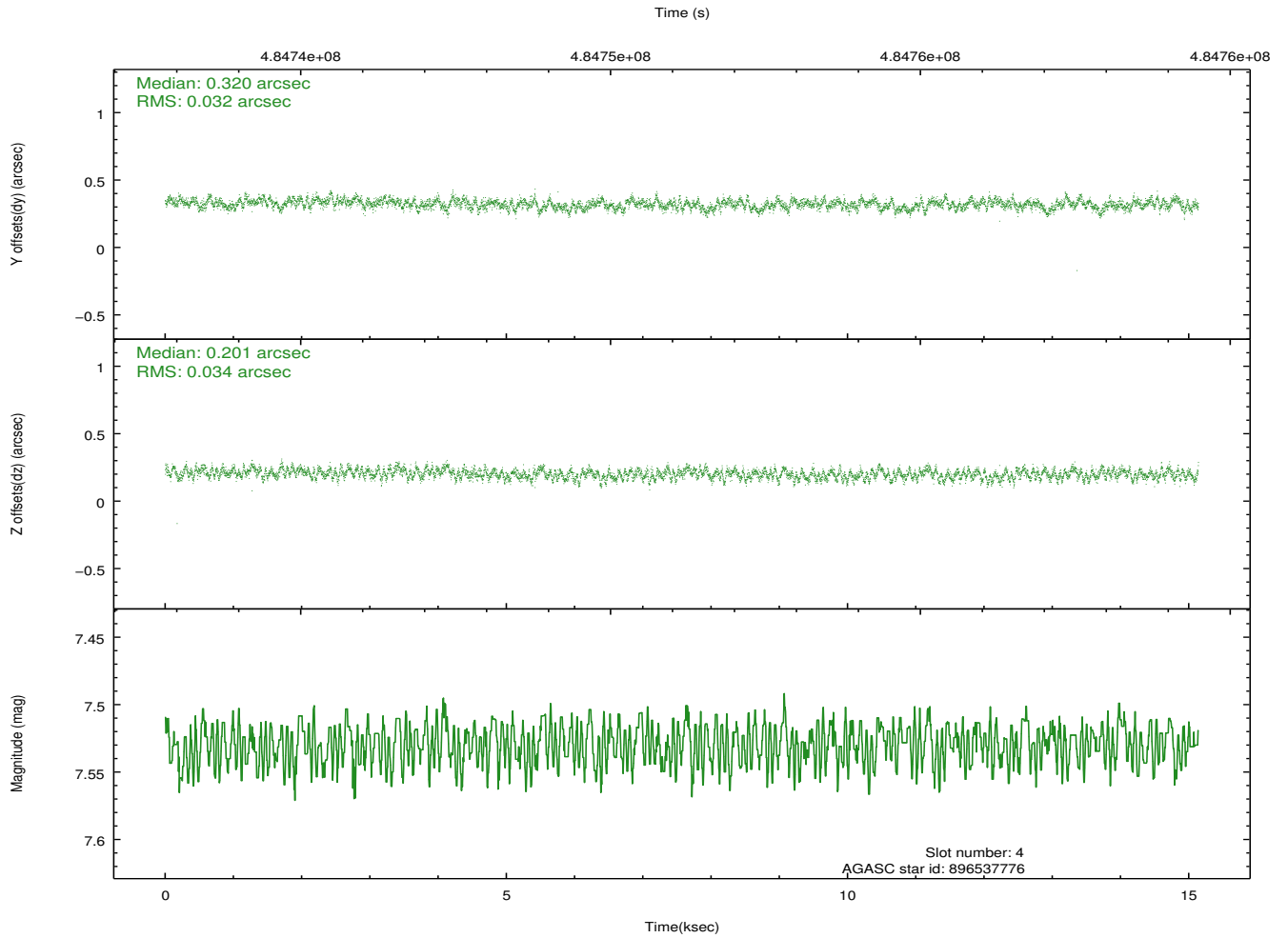
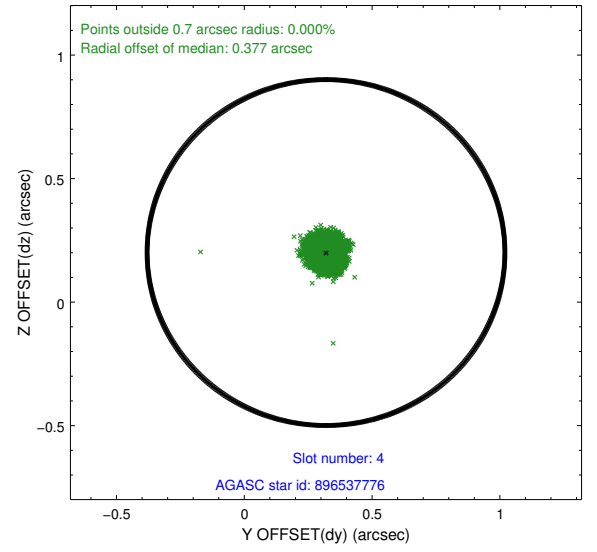
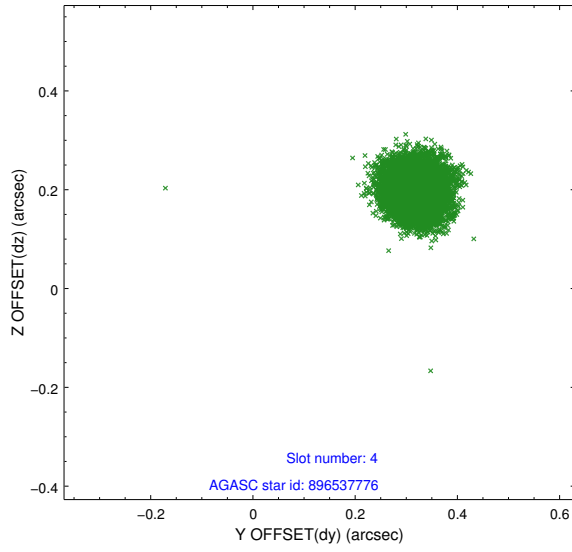
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	3693	-0.033	-0.034	0.008	0.014	0.000000	0.000000	-765.30	-1734.78
1	FID		ACIS-S-4	7.10	3693	0.154	0.025	0.009	0.015	0.000000	0.000000	2148.05	173.42
2	FID		ACIS-S-5	7.13	3693	-0.152	0.018	0.009	0.015	0.000000	0.000000	-1817.86	167.47
3	GUIDE	used	896534664	8.19	7383	-0.682	-0.298	0.066	0.107	266.405570	-28.407461	2204.16	432.24
4	GUIDE	used	896537776	7.53	7385	0.320	0.201	0.050	0.078	266.655684	-29.665673	-2135.57	-1081.31
5	GUIDE	used	896538208	7.98	7385	-0.063	0.242	0.066	0.107	267.176969	-28.671626	1657.75	-2128.14
6	GUIDE	used	896541360	7.72	7386	0.228	0.189	0.064	0.103	266.684478	-29.453744	-1368.23	-1047.33
7	GUIDE	used	896403224	8.28	7383	0.191	-0.336	0.083	0.138	265.612825	-29.438915	-1874.01	2274.05

2.4 Star Slots

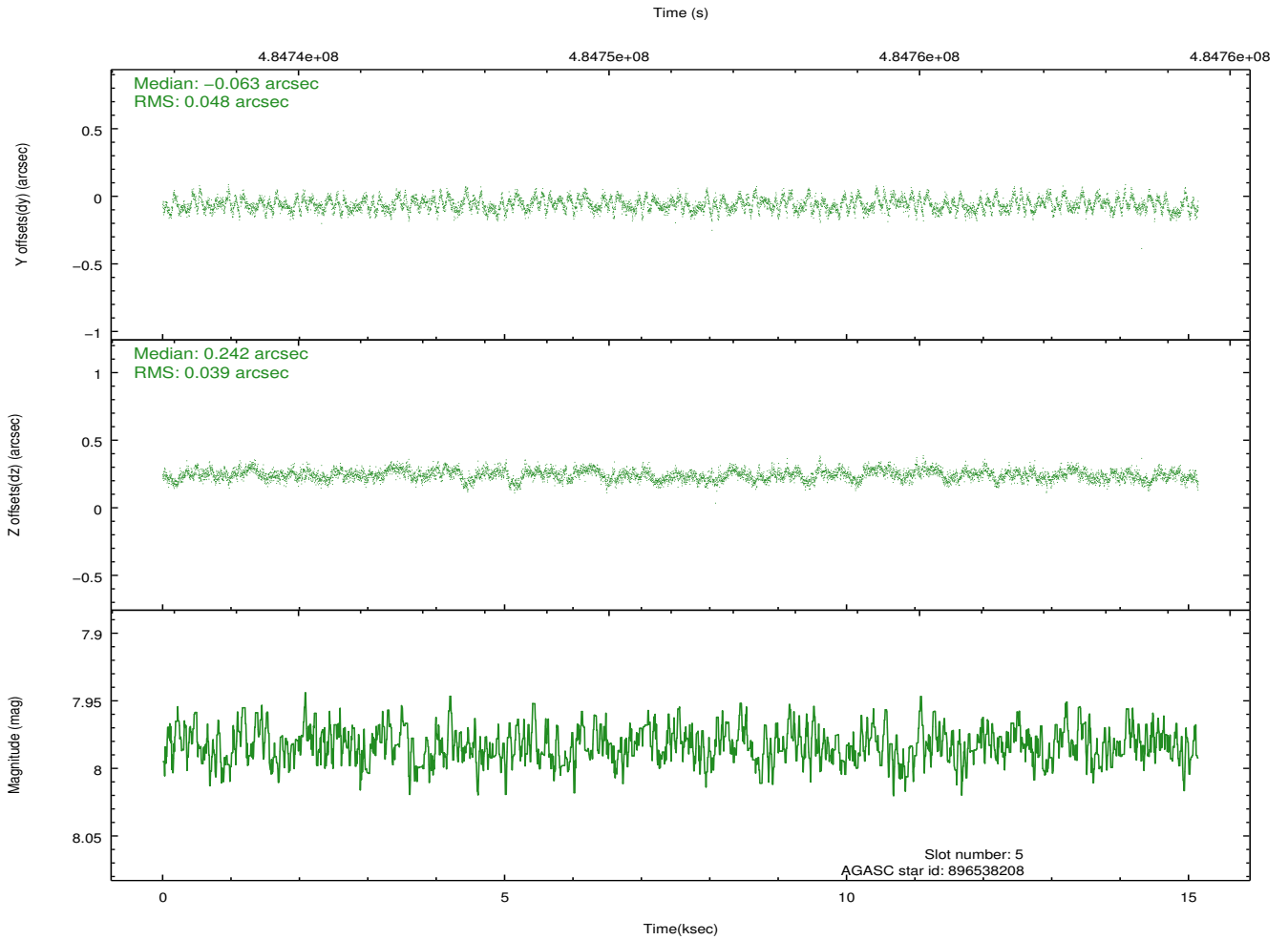
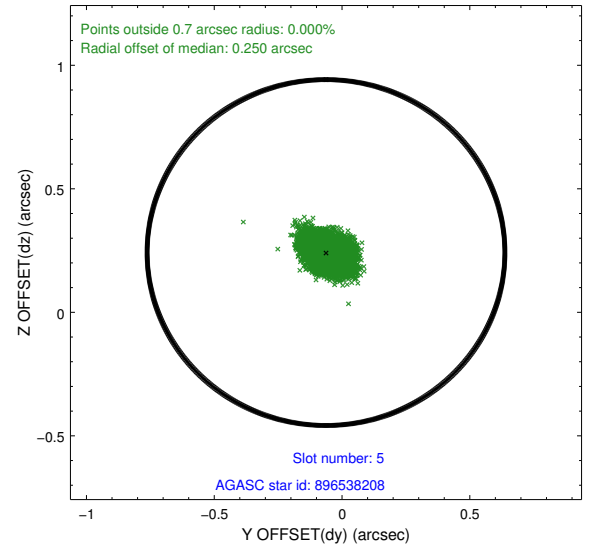
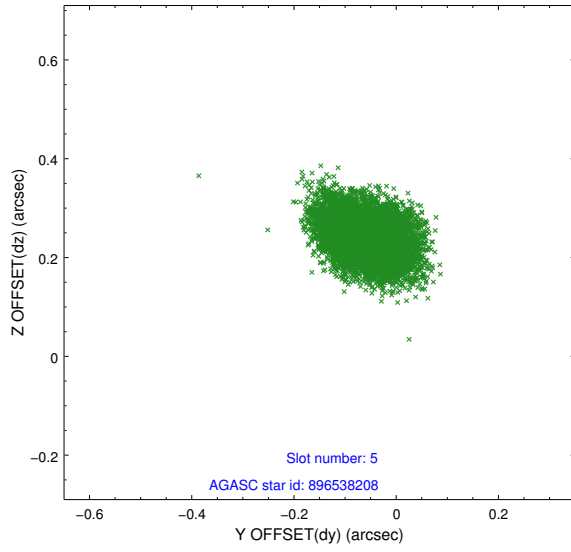
2.4.1 Slot 3



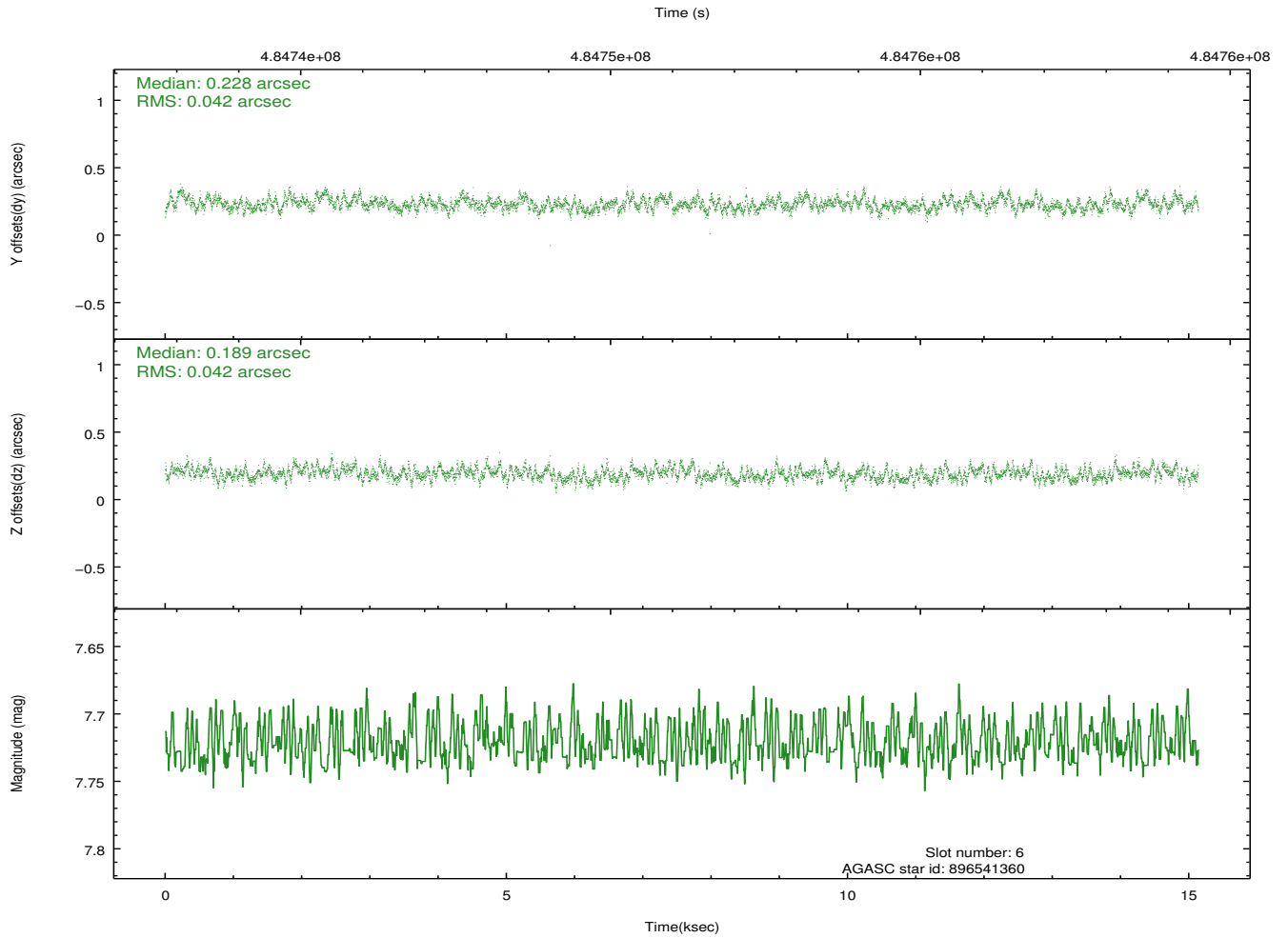
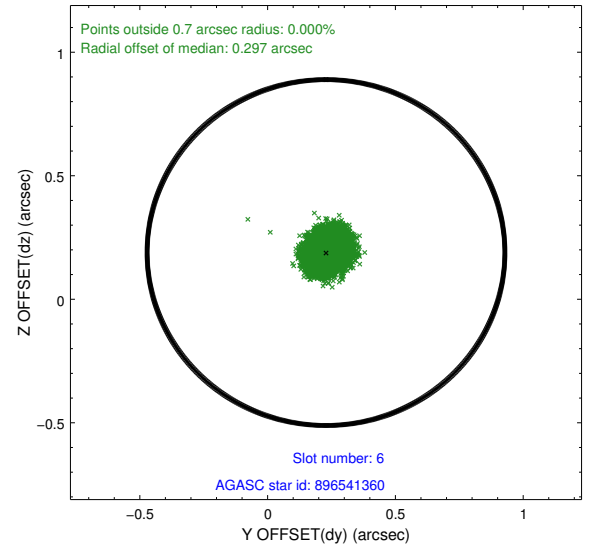
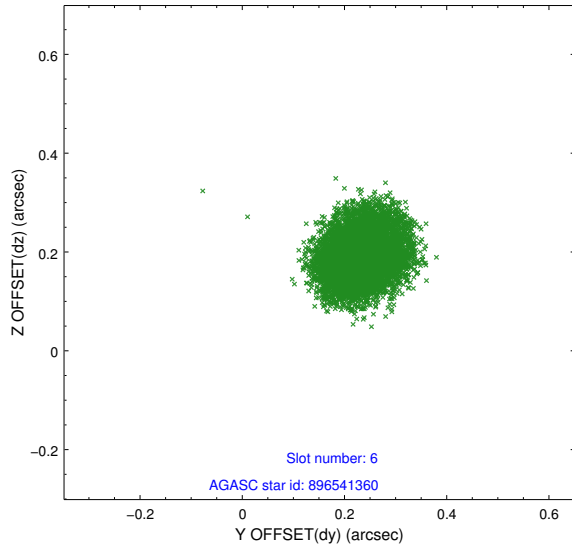
2.4.2 Slot 4



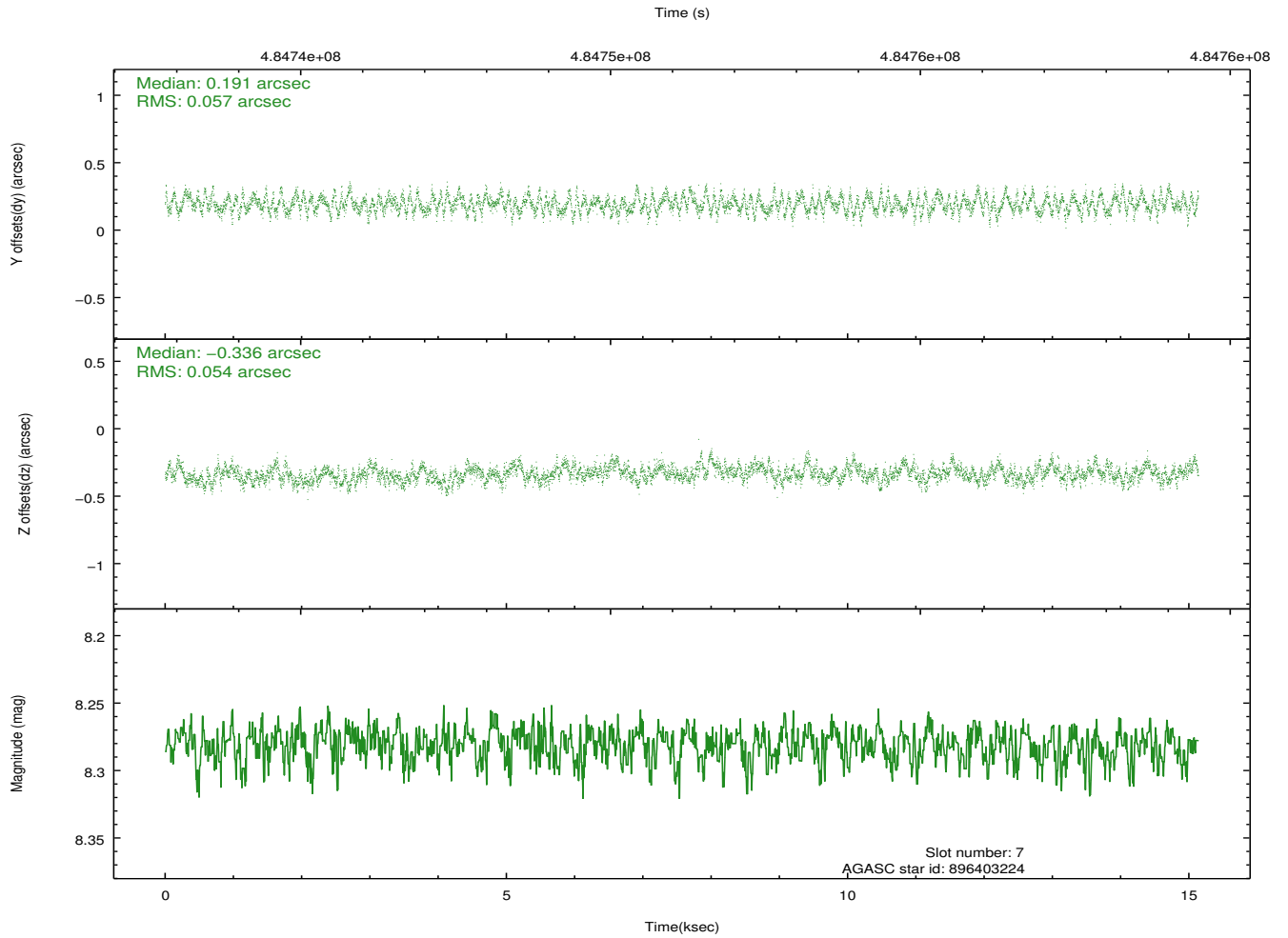
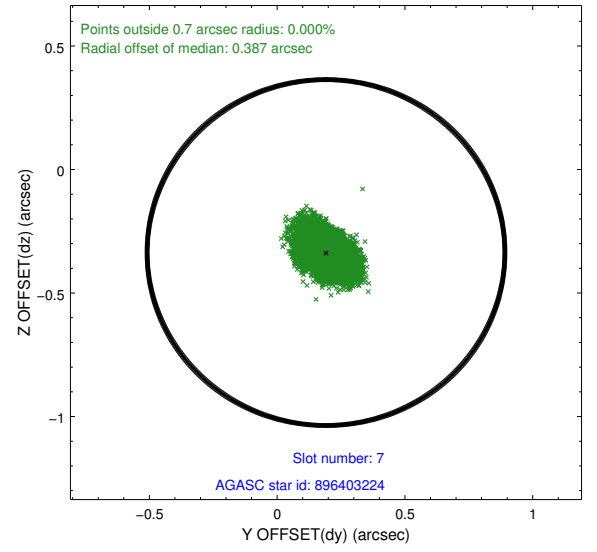
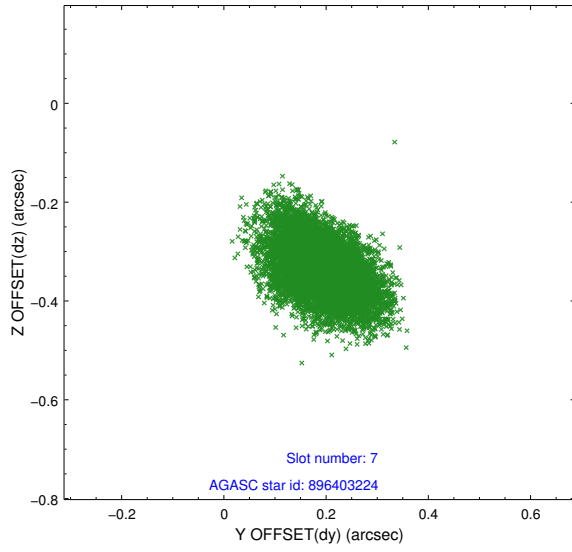
2.4.3 Slot 5



2.4.4 Slot 6

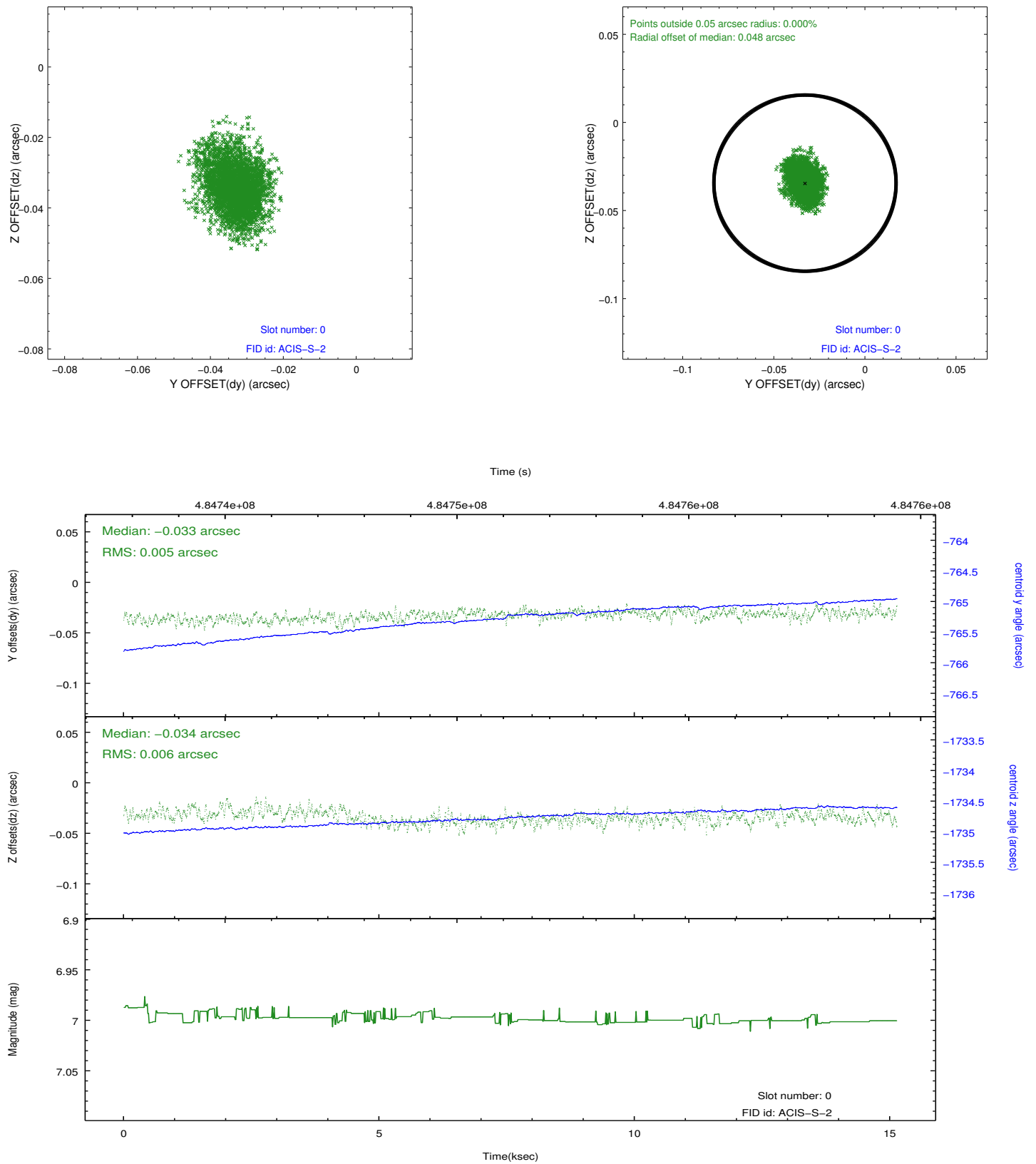


2.4.5 Slot 7

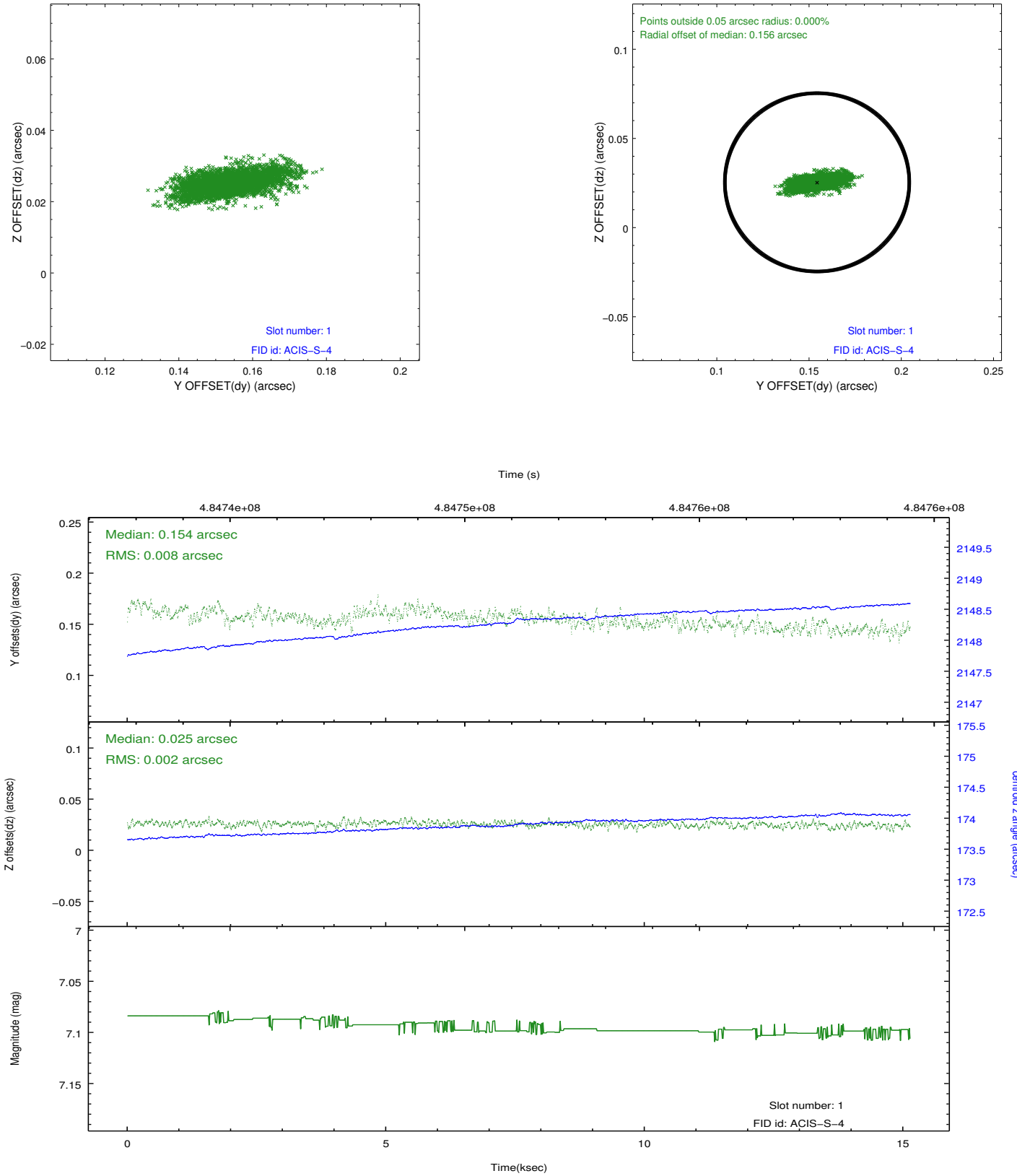


2.5 FID Slots

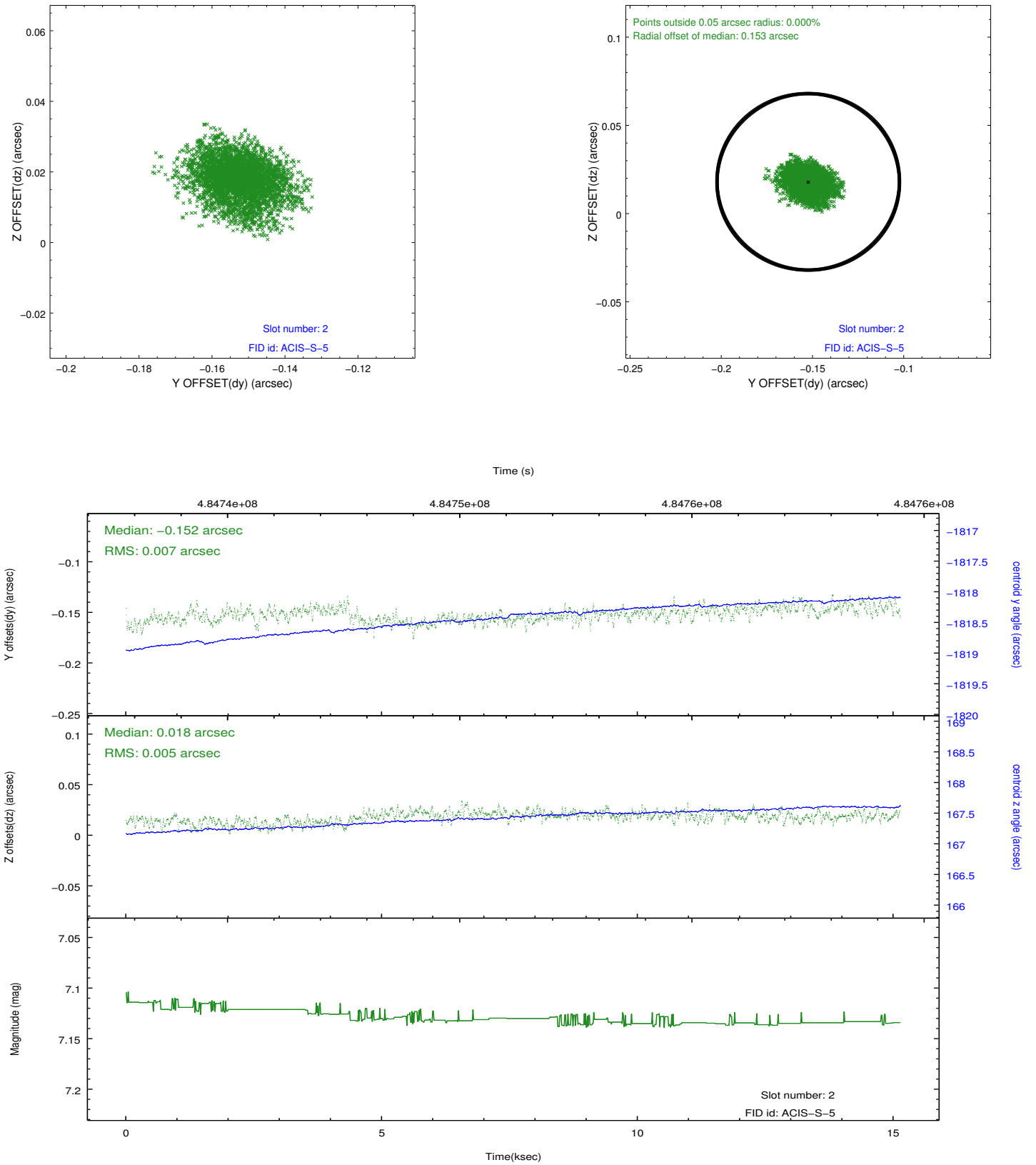
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.070397390544

A.2 Comments

Monitor constraint met.

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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.