

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4418 - L2 Version 4
Chandra X-Ray Center

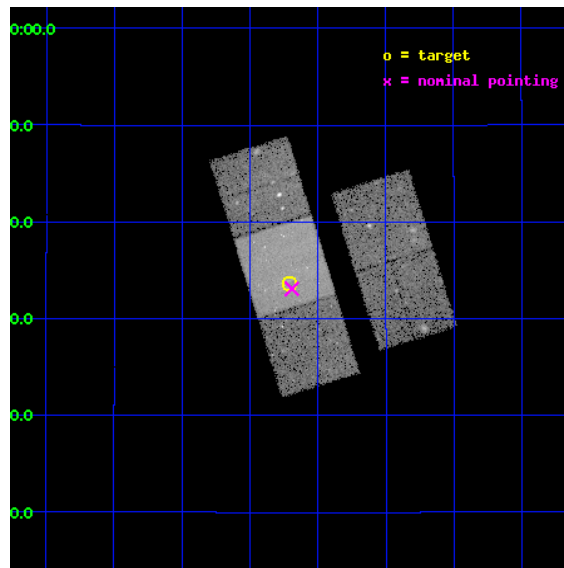
L2 Processing Date : Oct 23 2012

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1 Front

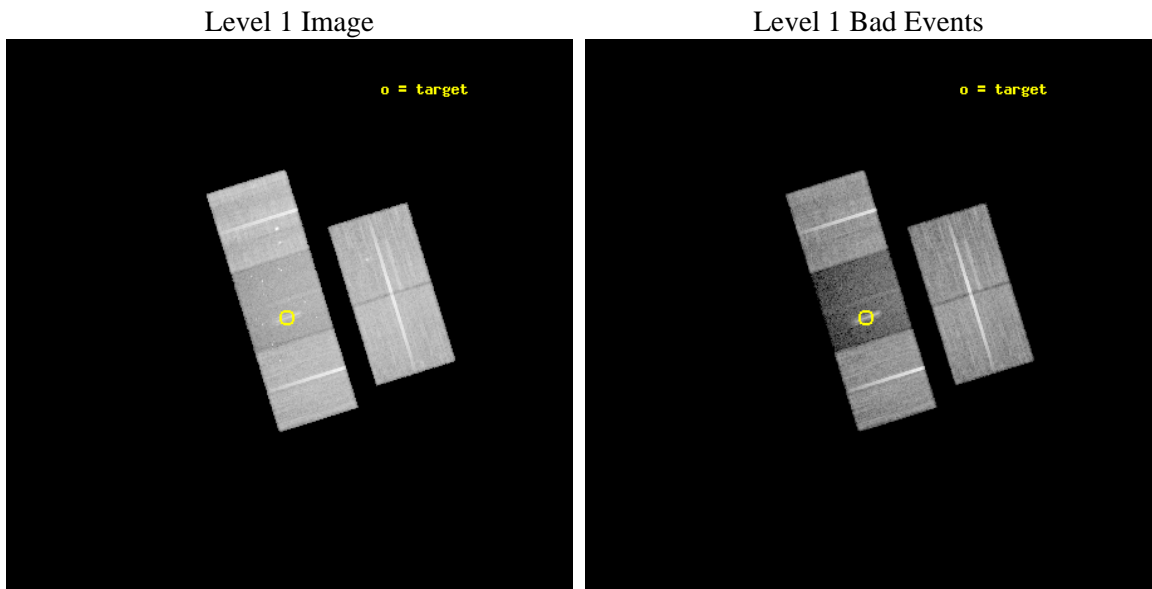
seq_num	100036	Sequence number
obs_id	4418	Observation id
title	MULTIWAVELENGTH OBSERVATIONS OF JUPITER'S AURORAL HOT SPOT	Propos
observer	Dr. Ronald Elsner	Principal investigator
object	JUPITER	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	132.80266	Observer's specified target RA [deg]
dec_targ	18.56011	Observer's specified target Dec [deg]
ra_nom	132.79798525671	Nominal RA [deg]
dec_nom	18.551527566076	Nominal Dec [deg]
roll_nom	252.78566516301	Nominal Roll [deg]
revision	4	Processing version of data
ontime	41273.399920613	Sum of GTIs [s]
livetime	40734.132565615	Livetime [s]
ontime2	41270.258940399	Sum of GTIs [s]
ontime3	41267.117940247	Sum of GTIs [s]
ontime6	41270.258940369	Sum of GTIs [s]
ontime7	41273.399920613	Sum of GTIs [s]
ontime8	41273.399920613	Sum of GTIs [s]
l2events	115042	Number of level 2 events



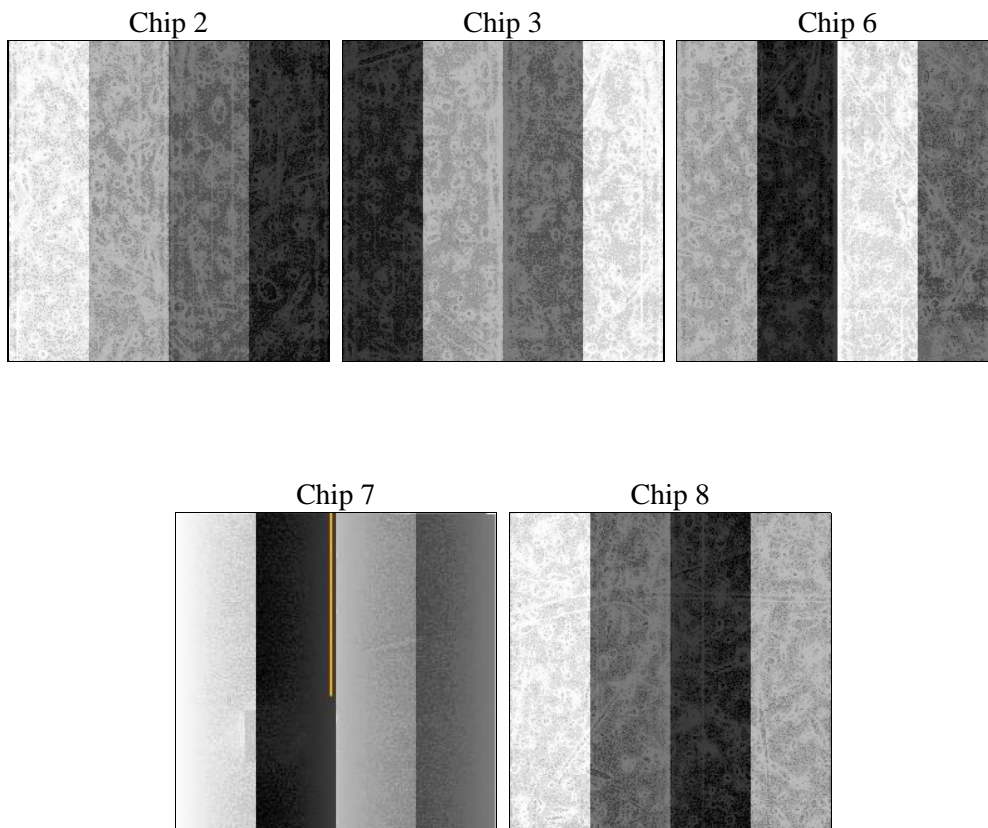
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	41182.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	41273.399920613	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	41270.258940399	Sum of GTIs [s]
date	2012-10-23T17:51:32	Date and time of file creation	ontime3	41267.117940247	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	41270.258940369	Sum of GTIs [s]
			ontime7	41273.399920613	Sum of GTIs [s]
			ontime8	41273.399920613	Sum of GTIs [s]
			l1events	901831	Number of level 1 events

2.1.4 Events

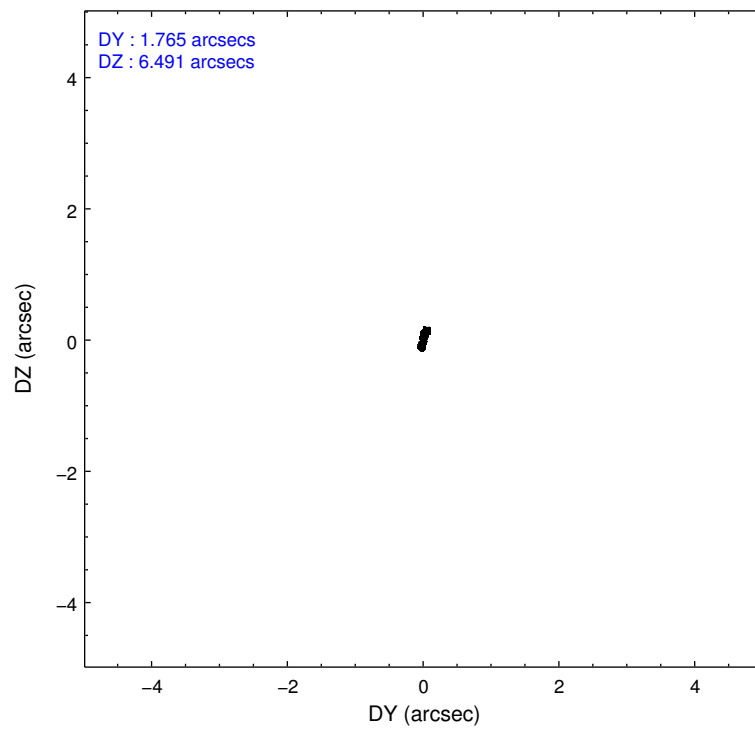
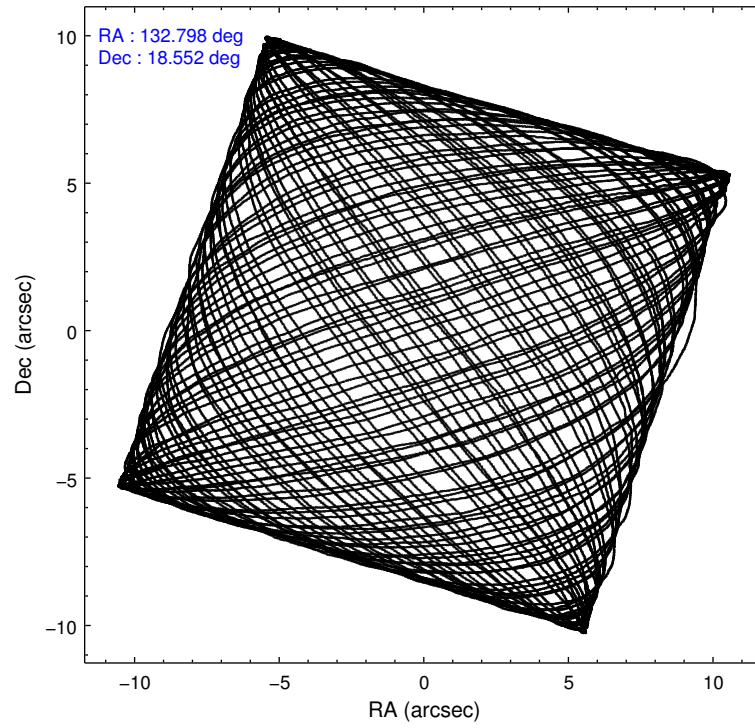
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	197676	185529	184110	109775	224741
rejected events	181895	169375	167285	51572	170581
rejected %	92%	91%	90%	46%	75%

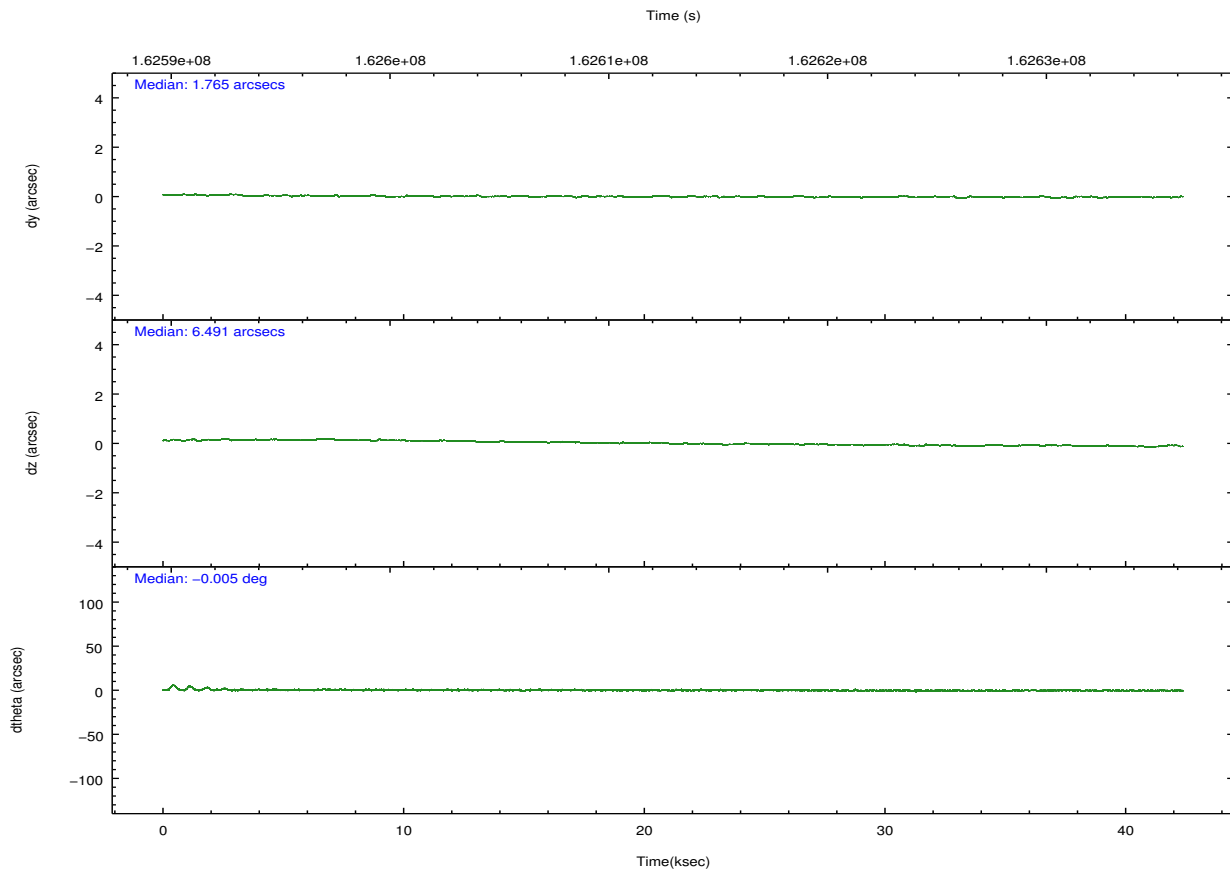
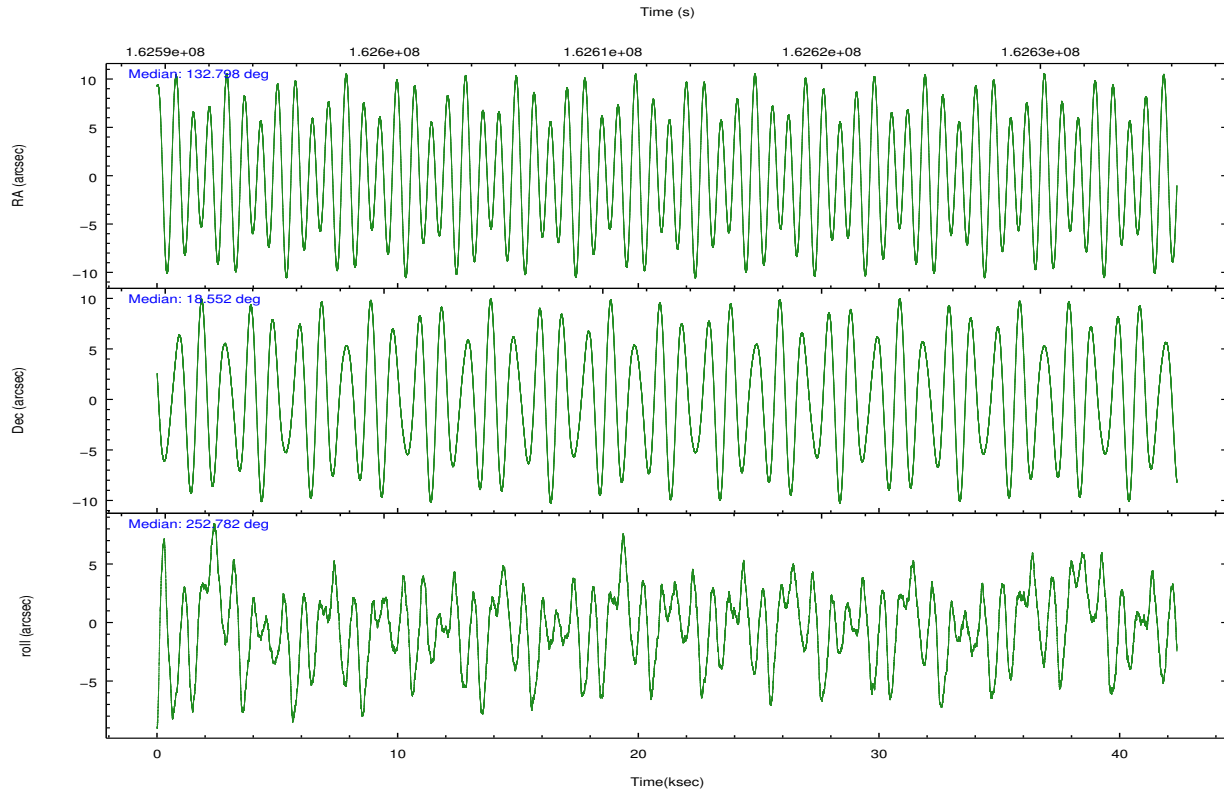
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	6476	6877	6771	7282	17017
	3%	3%	3%	6%	7%
grade 1 events	88	105	71	219	138
	0%	0%	0%	0%	0%
grade 2 events	3573	3171	3417	13667	12062
	1%	1%	1%	12%	5%
grade 3 events	1780	1934	1981	5411	5955
	0%	1%	1%	4%	2%
grade 4 events	1830	1750	1998	5470	5562
	0%	0%	1%	4%	2%
grade 5 events	2798	3539	3616	10934	6234
	1%	1%	1%	9%	2%
grade 6 events	2125	2427	2661	26378	13574
	1%	1%	1%	24%	6%
grade 7 events	179006	165726	163595	40414	164199
	90%	89%	88%	36%	73%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	132.791250	132.7979852567144	Subarray requested	NONE	NONE
[deg] Pointing Dec	18.577986	18.55152756607604	Alternating exposures requested	N	N
[deg] Pointing Roll	252.631184	252.7856651630057	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	162592942.184000	162591476.11958			
Observation start date	2003-02-25T20:41:18	2003-02-25T20:17:56			
[s] Observation end time (MET)	162634124.184000	162634639.3839			
Observation end date	2003-02-26T08:07:40	2003-02-26T08:17:19			
Read mode	TIMED	TIMED			

2.3 Aspect



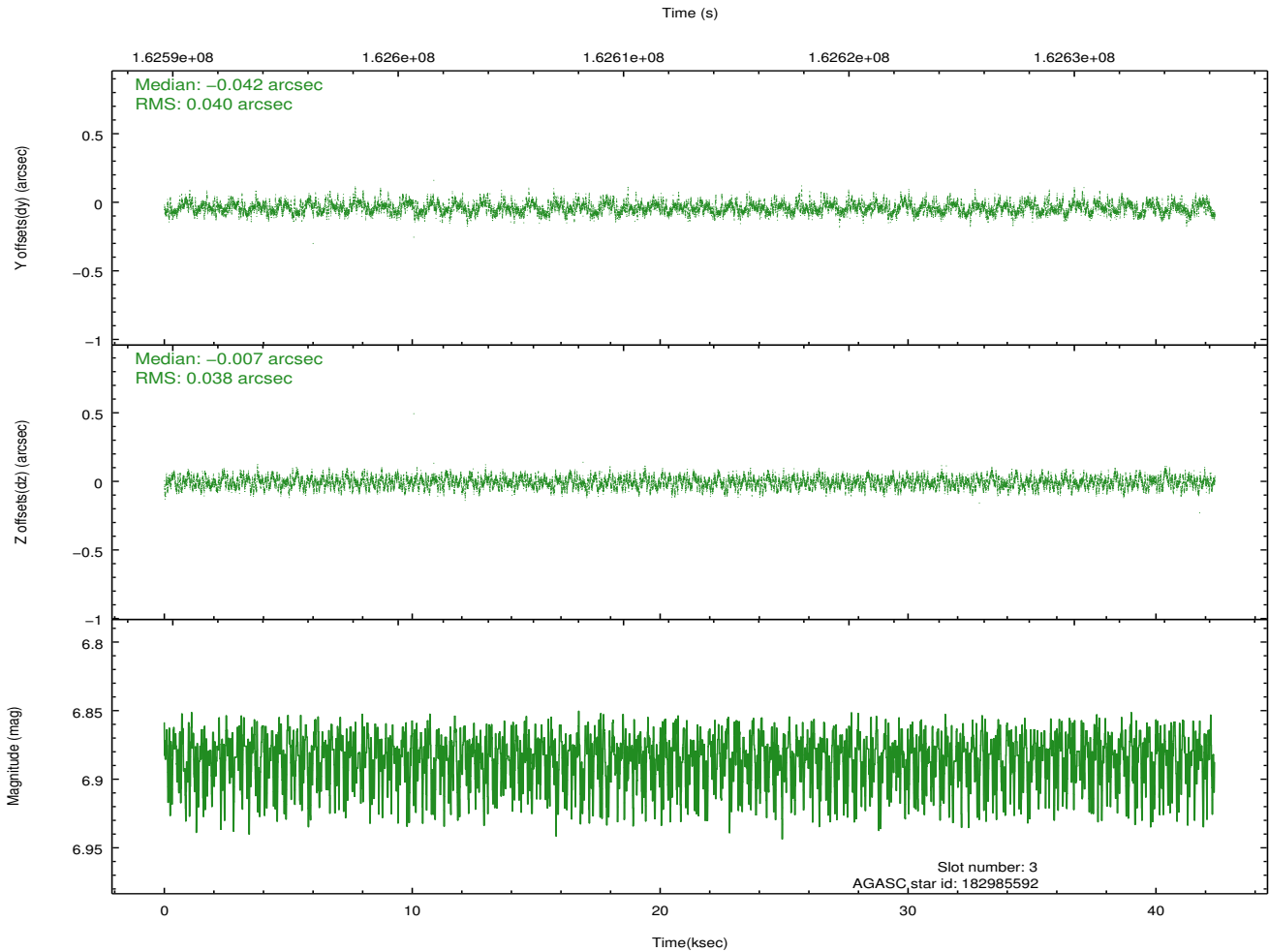
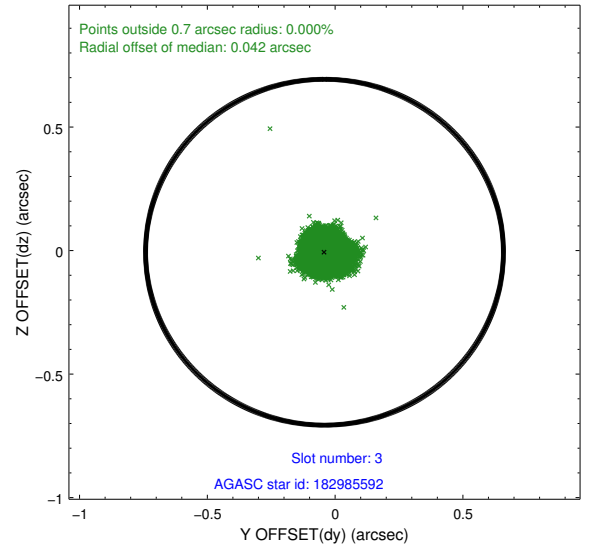
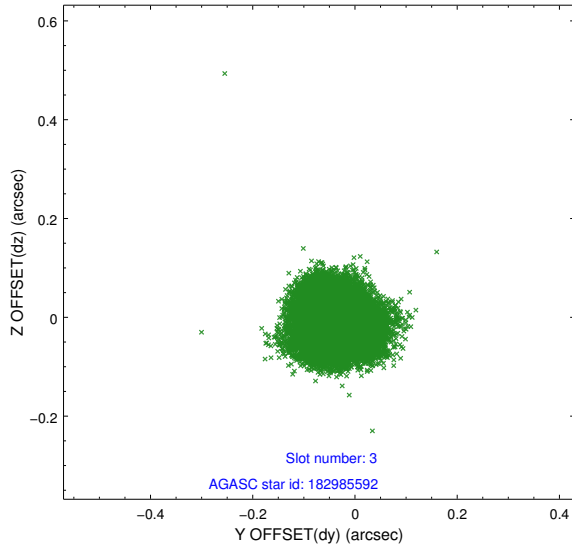


Slot Statistics

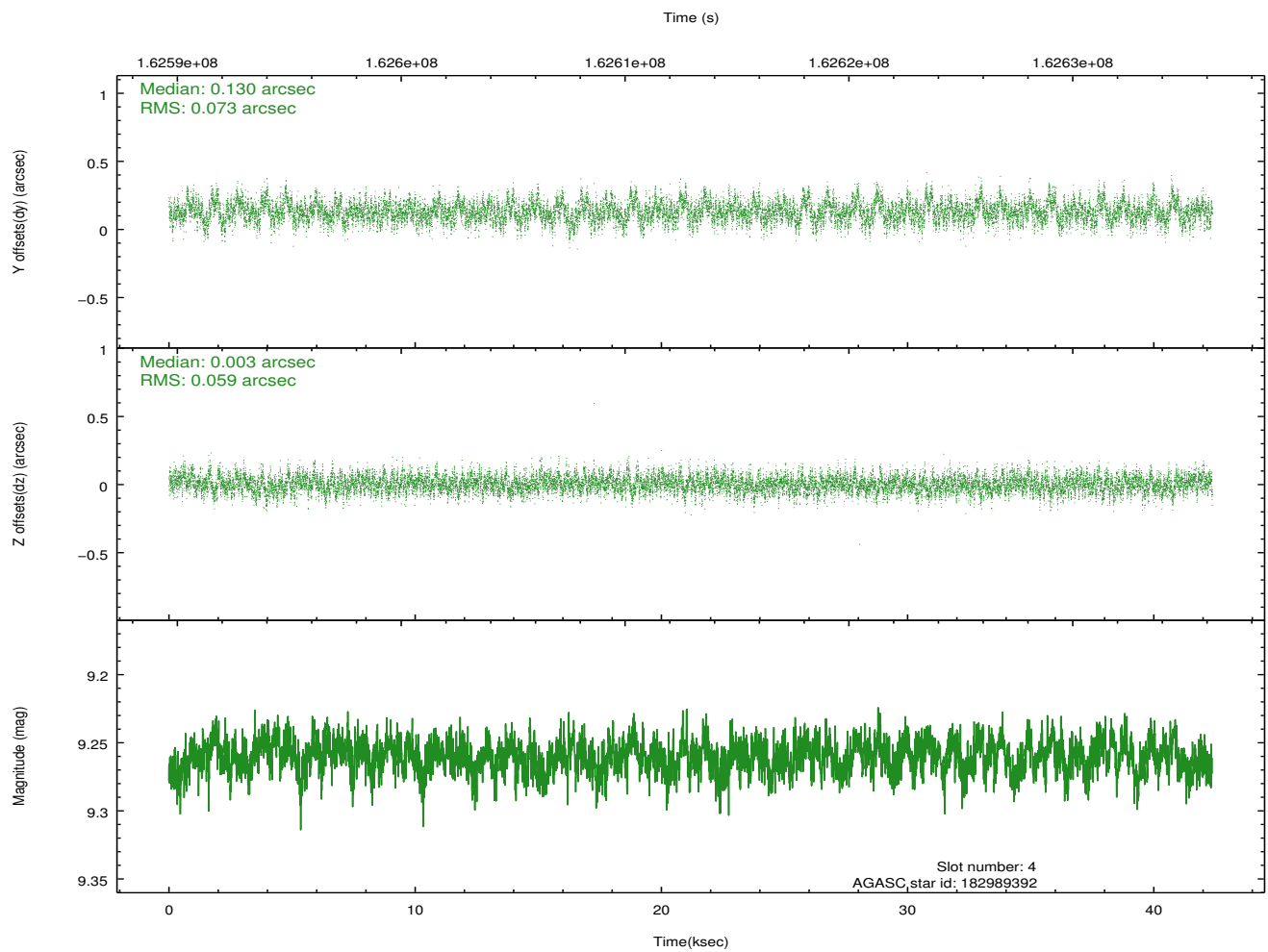
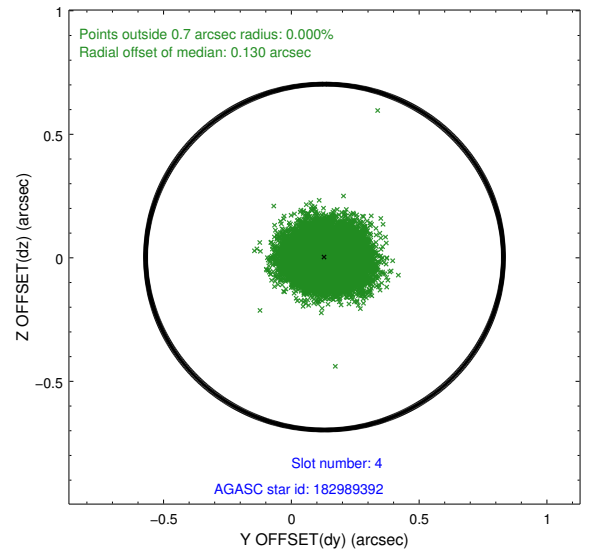
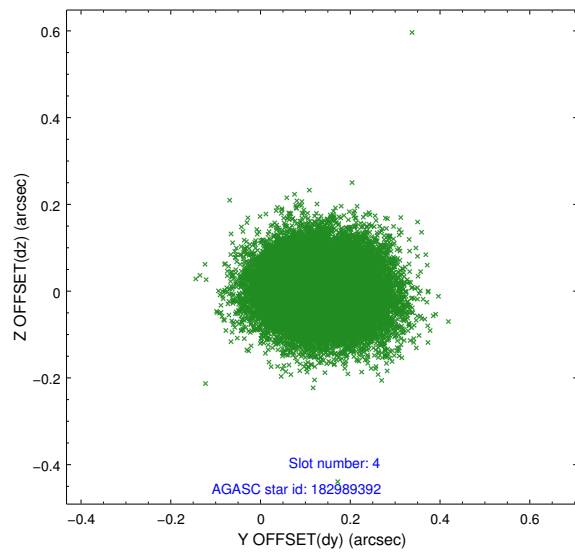
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.11	10334	-0.060	-0.013	0.007	0.014	0.000000	0.000000	-754.40	-1727.68
1	FID	ACIS-S-4	7.21	10332	0.024	0.032	0.006	0.012	0.000000	0.000000	2158.92	180.89
2	FID	ACIS-S-5	7.24	10334	0.005	-0.011	0.007	0.012	0.000000	0.000000	-1807.21	174.45
3	GUIDE	182985592	6.88	20671	-0.042	-0.007	0.060	0.093	132.688010	18.832182	-768.24	-608.65
4	GUIDE	182989392	9.26	20663	0.130	0.003	0.099	0.161	132.825117	17.883707	2350.98	857.41
5	GUIDE	182991352	8.86	20668	-0.089	-0.048	0.078	0.125	132.561076	19.276214	-2165.68	-1497.02
6	GUIDE	182992064	8.37	20664	-0.016	-0.063	0.060	0.097	133.014881	18.894292	-1314.51	387.06
7	GUIDE	182986552	9.66	20605	0.021	0.116	0.143	0.223	133.280093	18.160834	931.93	2044.15

2.4 Star Slots

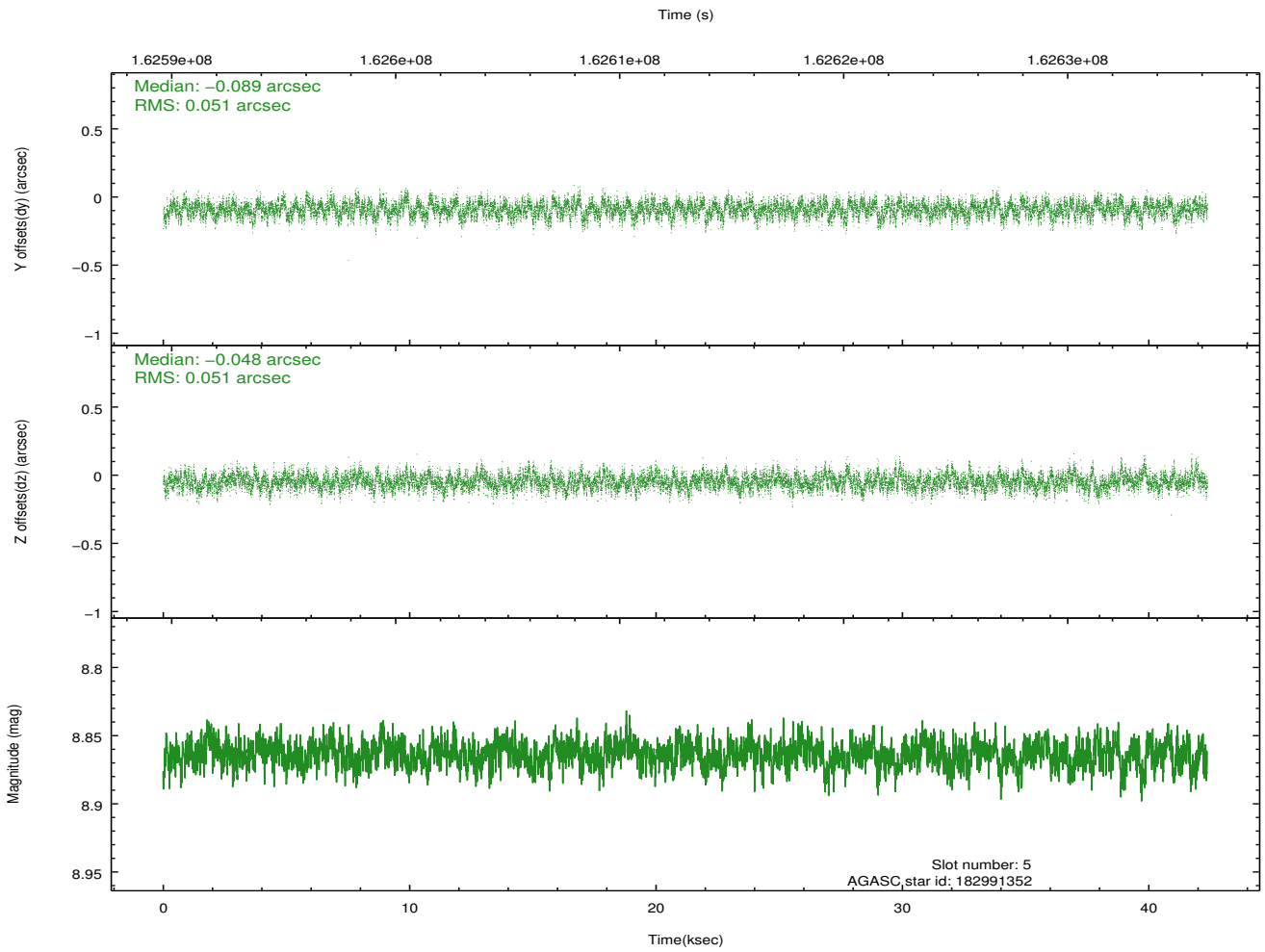
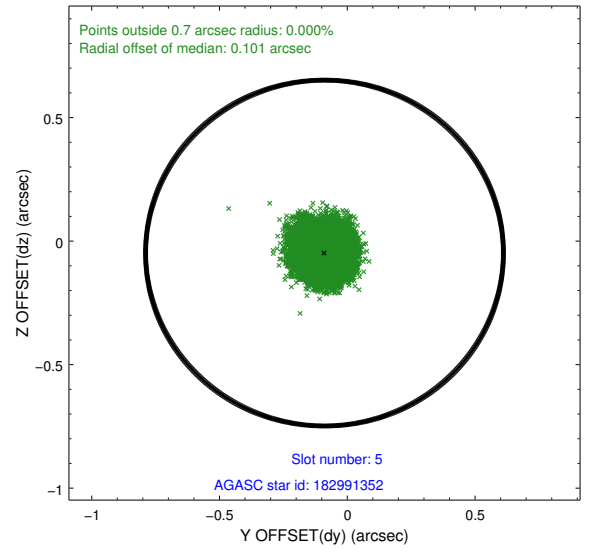
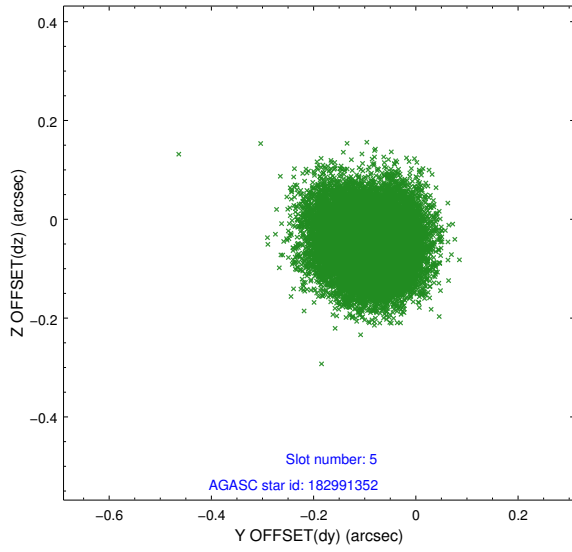
2.4.1 Slot 3



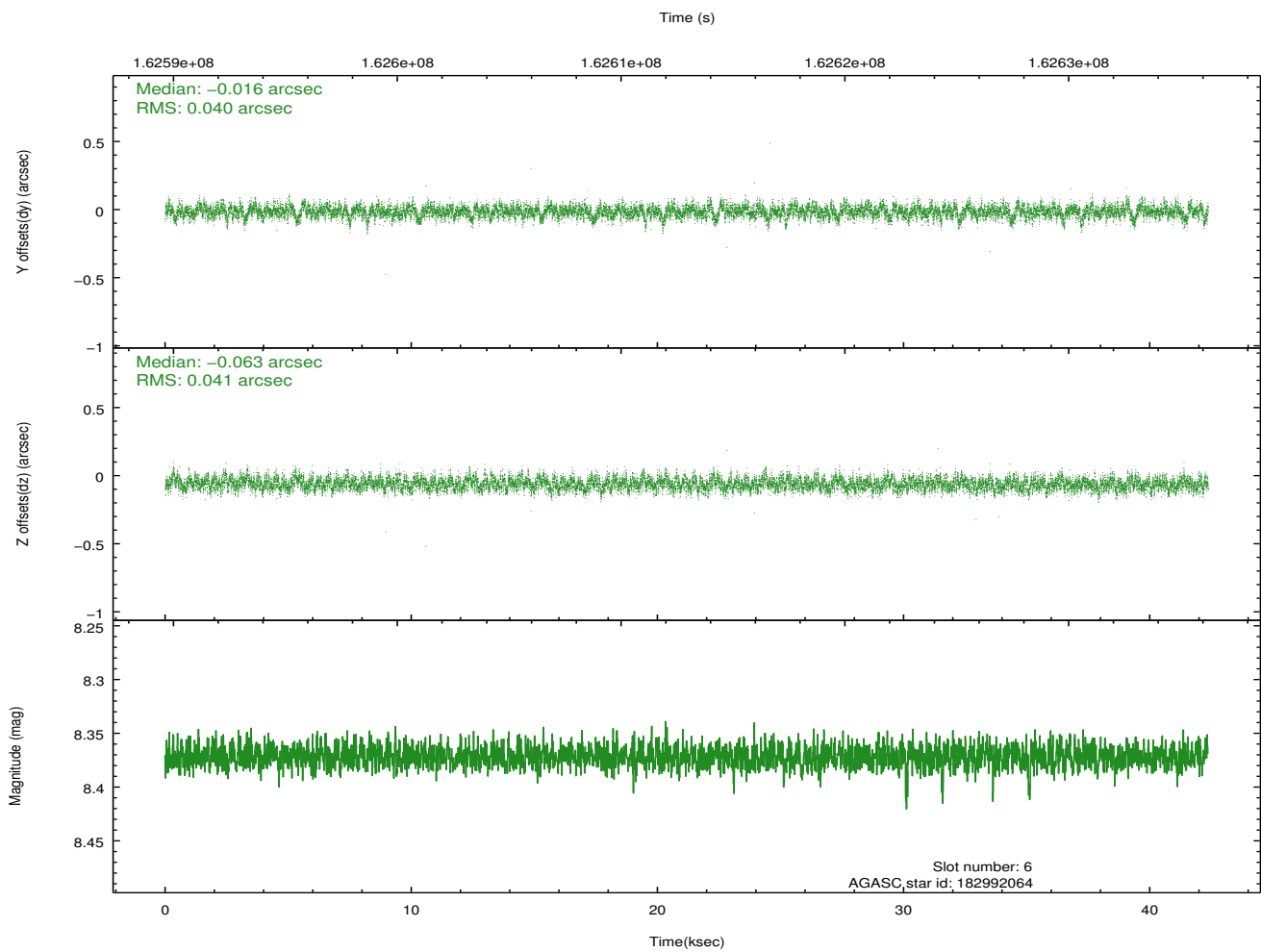
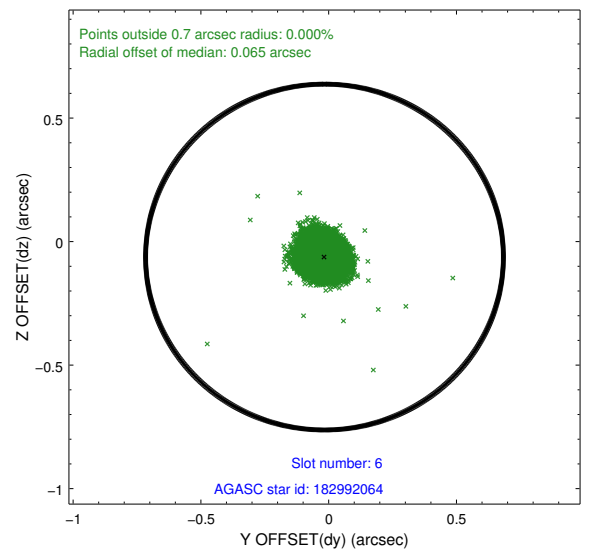
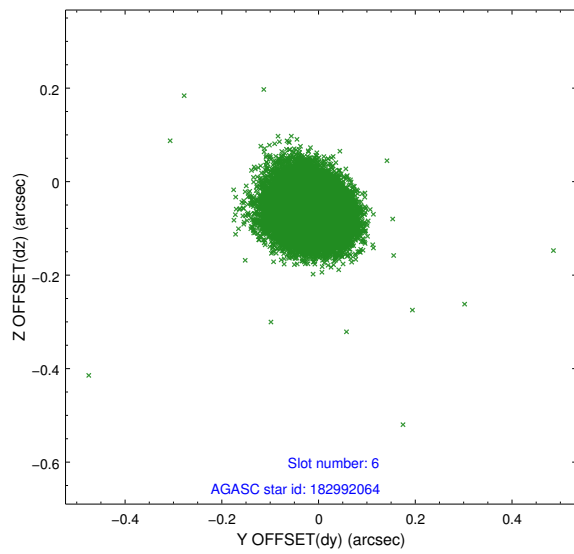
2.4.2 Slot 4



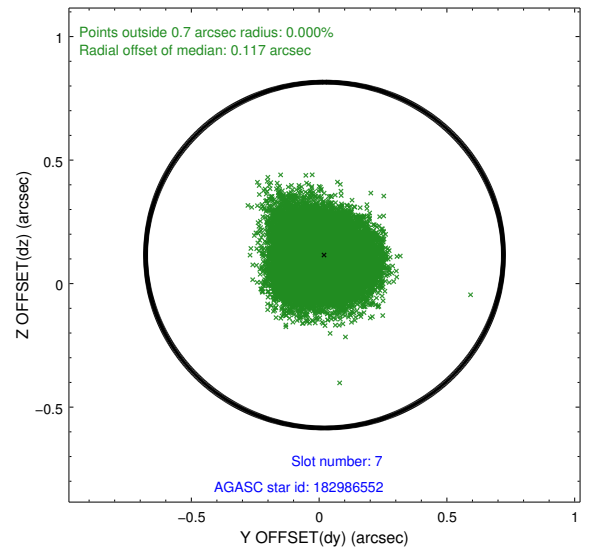
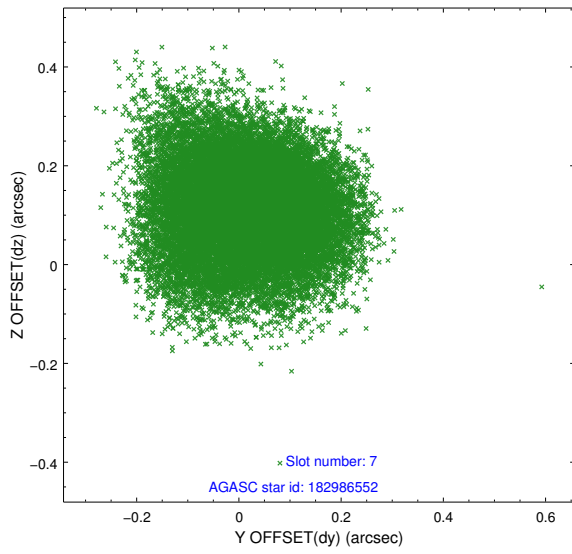
2.4.3 Slot 5



2.4.4 Slot 6

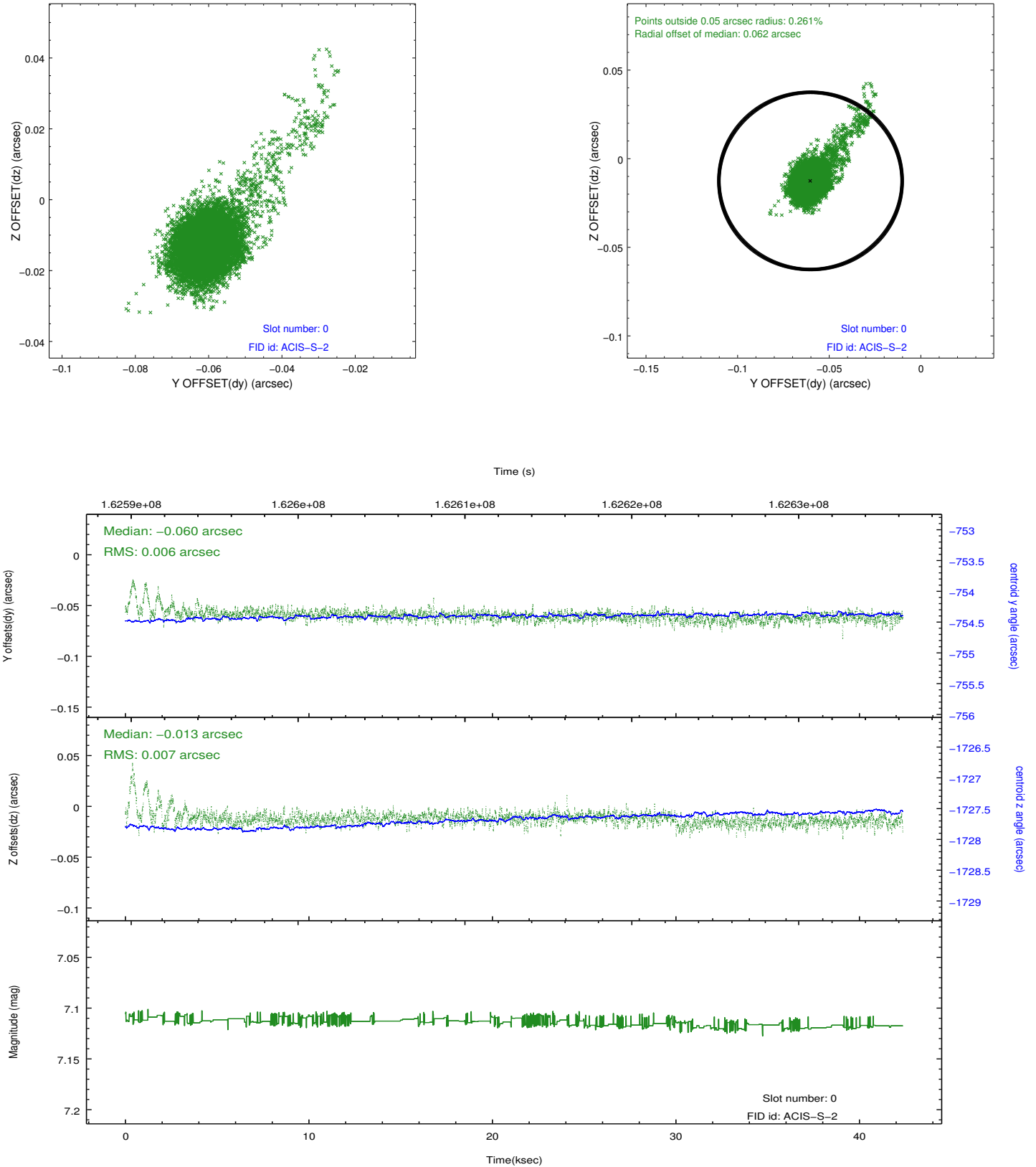


2.4.5 Slot 7

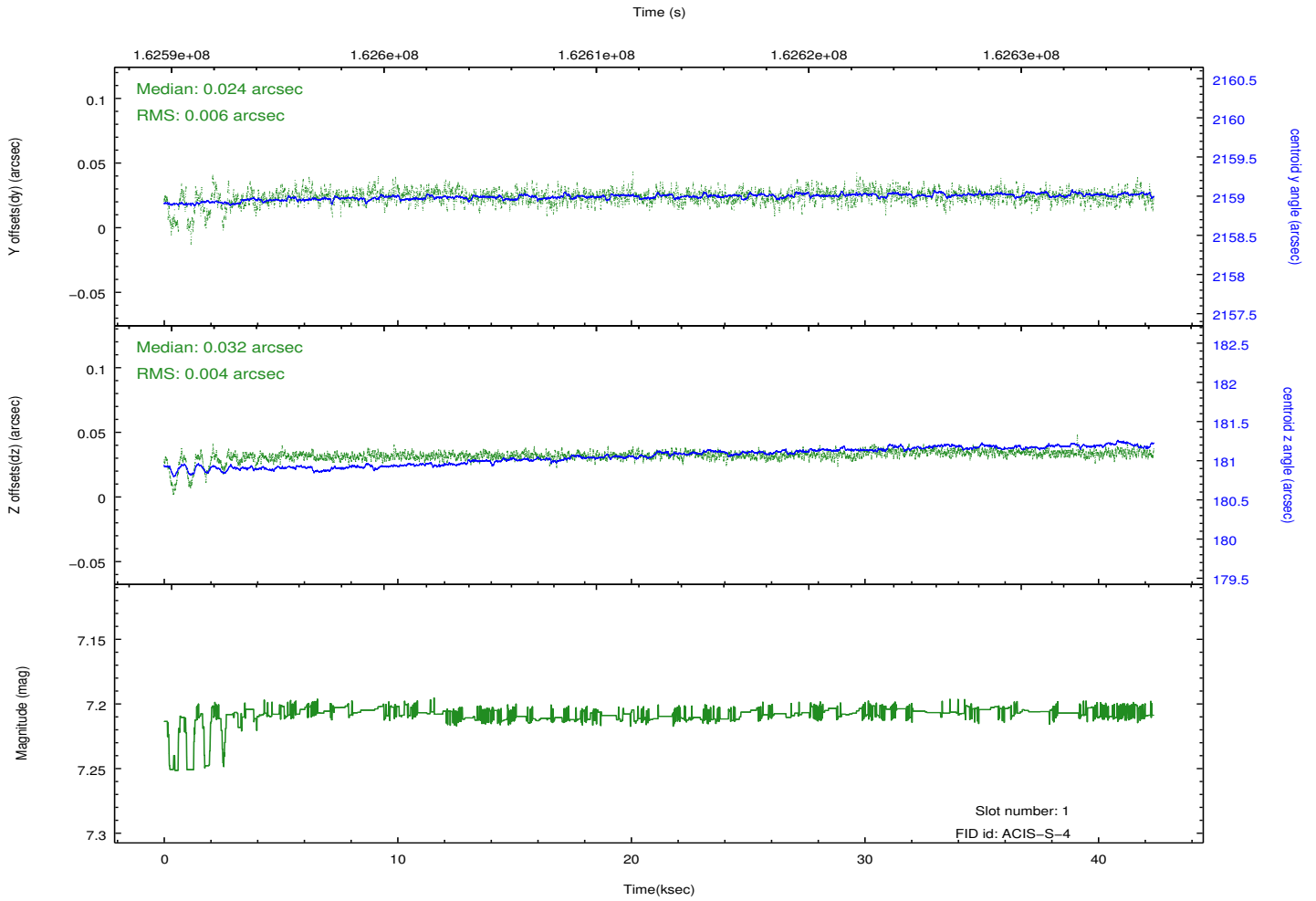
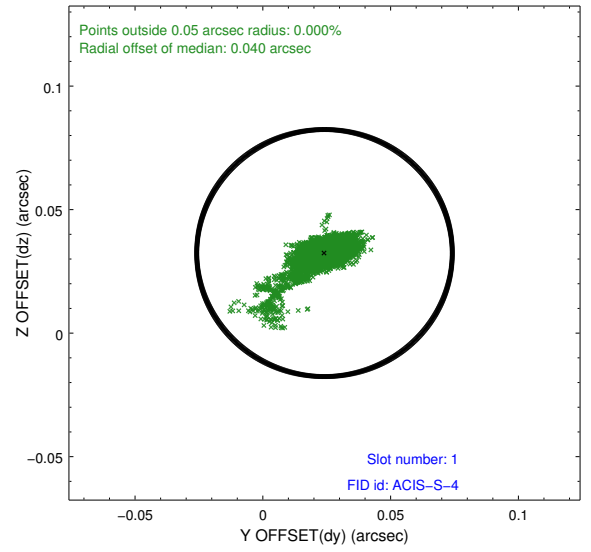
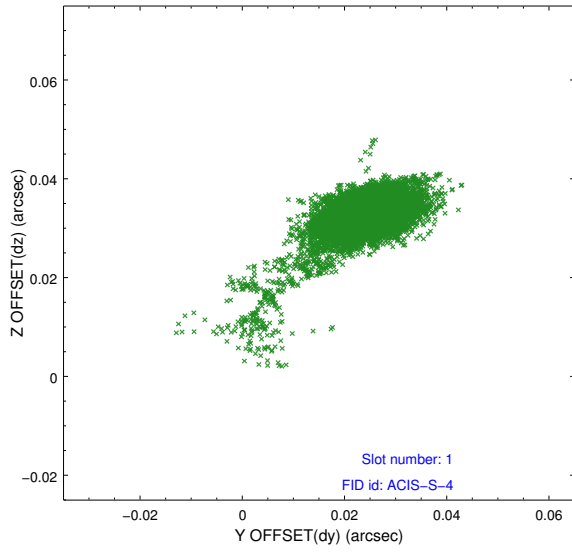


2.5 FID Slots

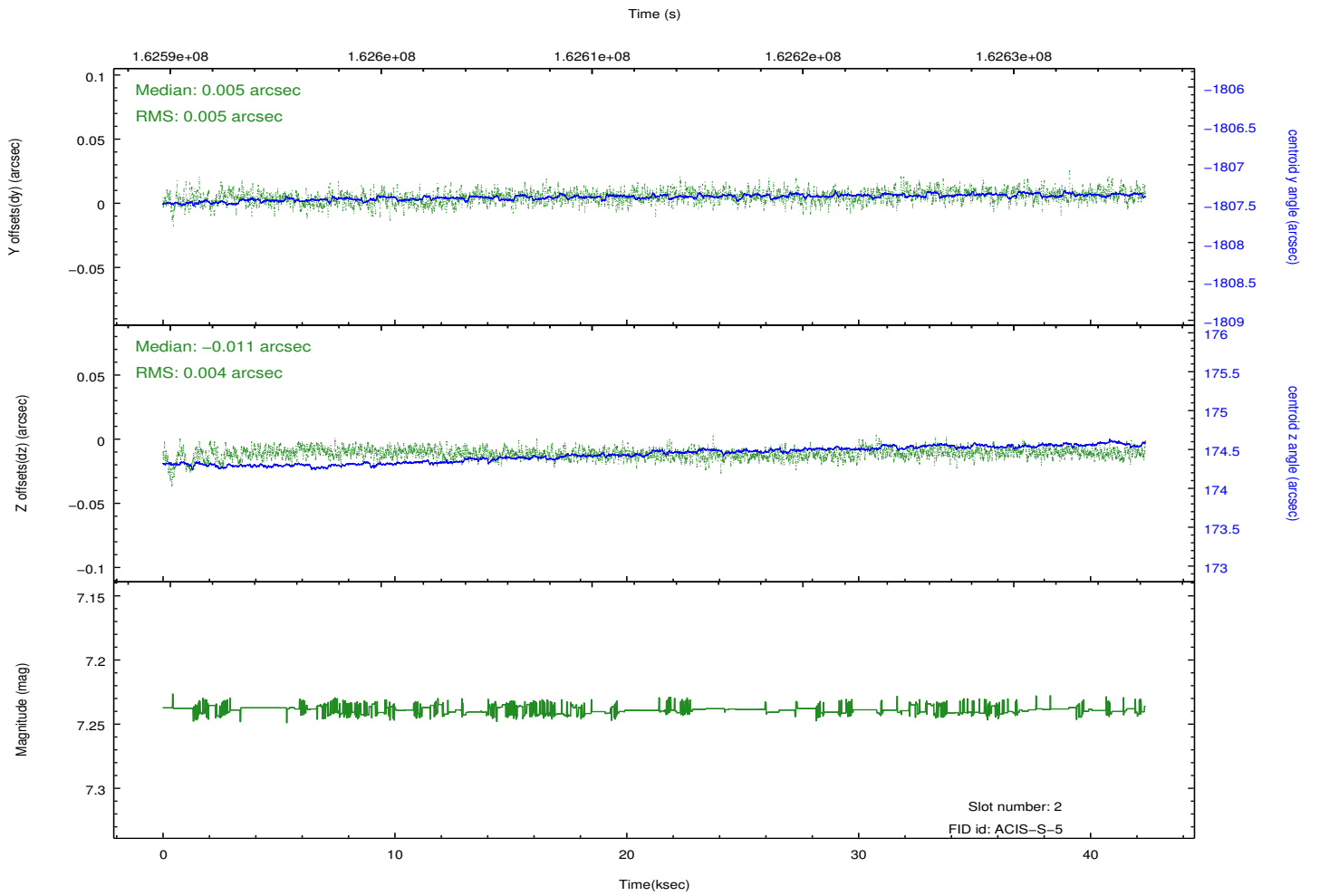
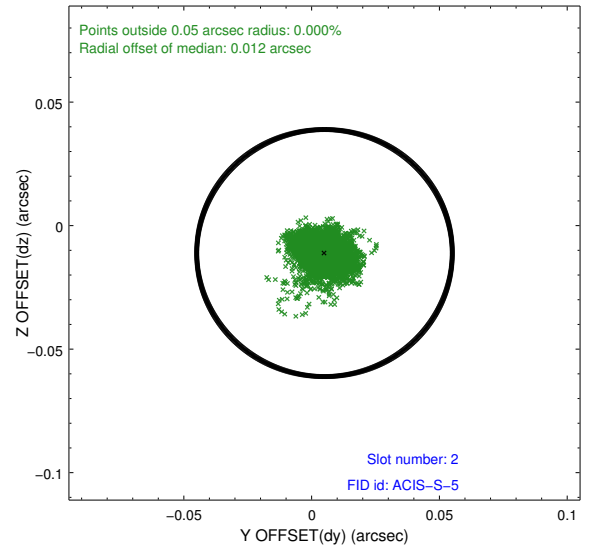
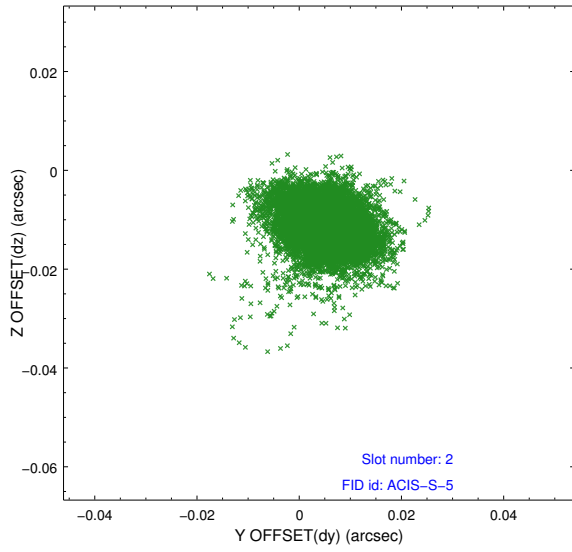
2.5.1 Slot 0



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)	2012.11.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	41.276

A.2 Comments

Joint proposal with HST. Window preference met. Bias map for CCD chip 7 was inadvertently exposed to the image of Jupiter, raising the bias values at that position. The bias map was repaired by removing a square area that includes most of the Jupiter image, then replacing the square area with appropriate pixel values modeled from another bias file. The region affected is bounded by the sky coords:

(132.83802,18.54007), (132.84526,18.56223), (132.82188,18.56909), (132.81465,18.54692)