

V&V Reference Report

L2 ASCDS Version : 10.1

Observation 15166 - L2 Version 3
Chandra X-Ray Center

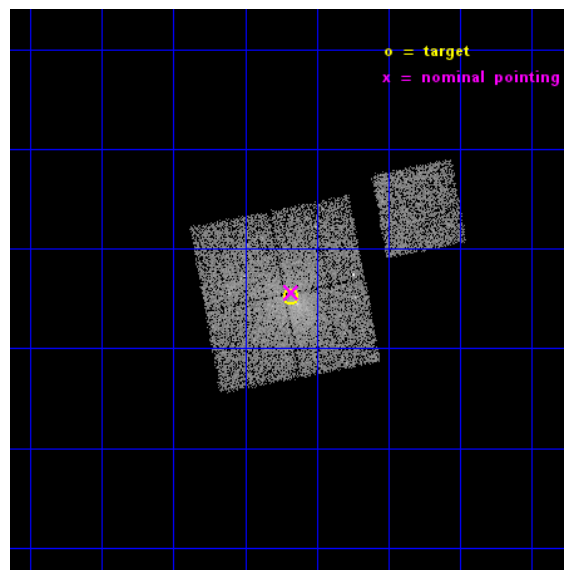
L2 Processing Date : Dec 6 2014

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1 Front

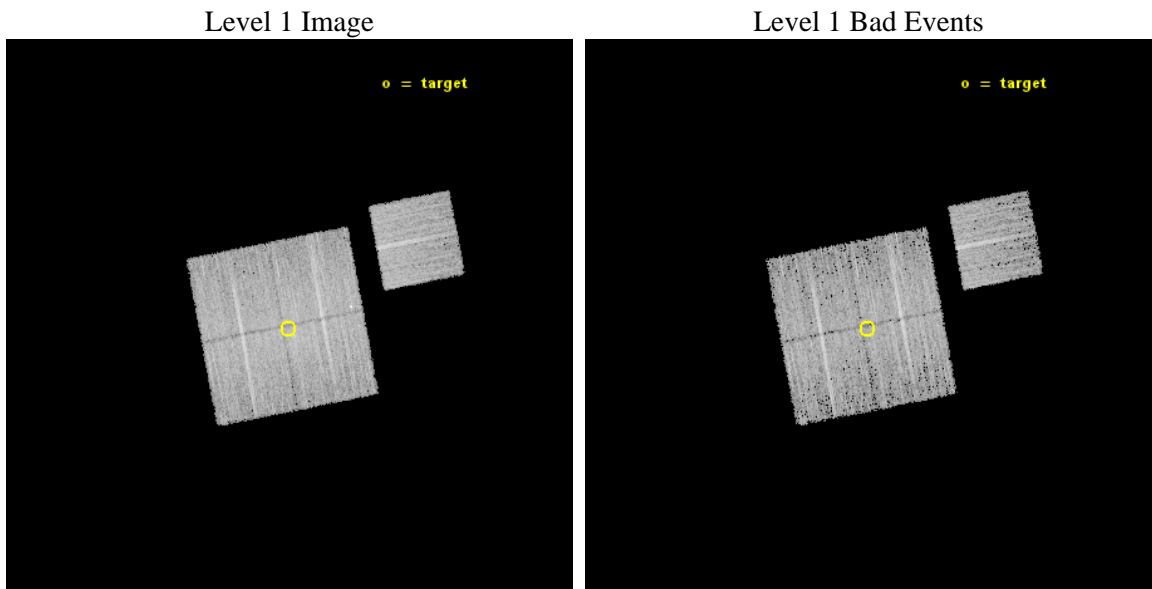
seq_num	801294	Sequence number
obs_id	15166	Observation id
title	COMPLETING eHIFLUGCS: THE ULTIMATE PRECISE AND ACCURATE LOCAL BASELINE	Proposal title
observer	Dr. Thomas Reiprich	Principal investigator
object	A0957	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	153.42	Observer's specified target RA [deg]
dec_targ	-0.914444	Observer's specified target Dec [deg]
ra_nom	153.41910598932	Nominal RA [deg]
dec_nom	-0.90640611640274	Nominal Dec [deg]
roll_nom	79.084665260092	Nominal Roll [deg]
revision	3	Processing version of data
ontime	11947.400091887	Sum of GTIs [s]
livetime	11791.298514138	Livetime [s]
ontime0	11947.400091887	Sum of GTIs [s]
ontime1	11947.400091887	Sum of GTIs [s]
ontime2	11947.400091887	Sum of GTIs [s]
ontime3	11947.400091887	Sum of GTIs [s]
ontime6	11947.400091887	Sum of GTIs [s]
l2events	35526	Number of level 2 events



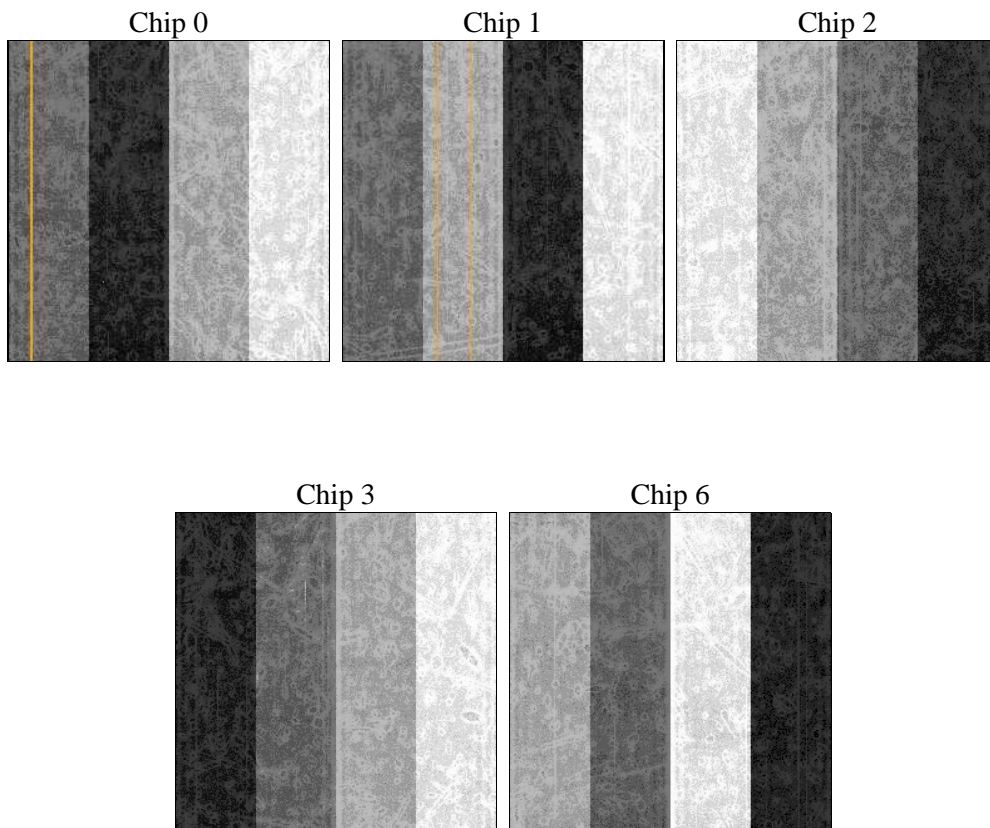
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	11859.553000	[s] Scheduled observation exposure time
ascdsver	10.3.1	Processing system revision	ontime	11947.400091887	Sum of GTIs [s]
caldbver	4.6.4	 	ontime0	11947.400091887	Sum of GTIs [s]
date	2014-12-07T02:02:02	Date and time of file creation	ontime1	11947.400091887	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	11947.400091887	Sum of GTIs [s]
			ontime3	11947.400091887	Sum of GTIs [s]
			ontime6	11947.400091887	Sum of GTIs [s]
			l1events	260888	Number of level 1 events

2.1.4 Events

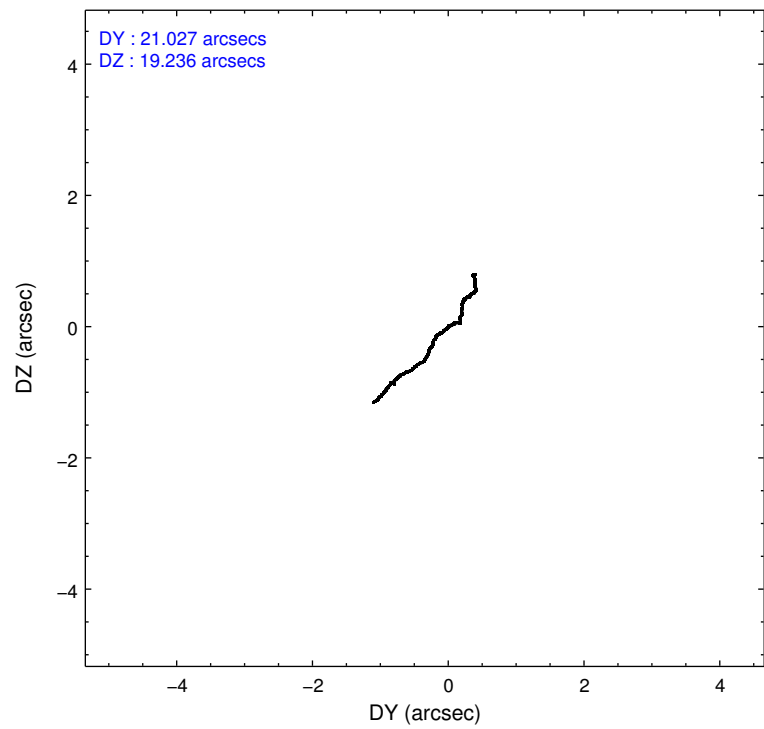
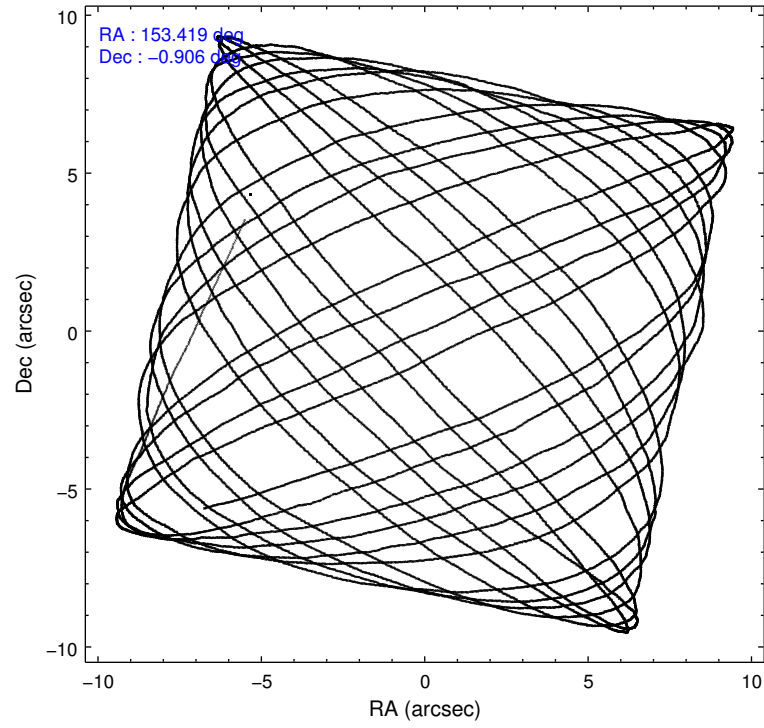
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	50387	52077	54607	53163	50654
rejected events	41822	43340	46263	43953	44335
rejected %	83%	83%	84%	82%	87%

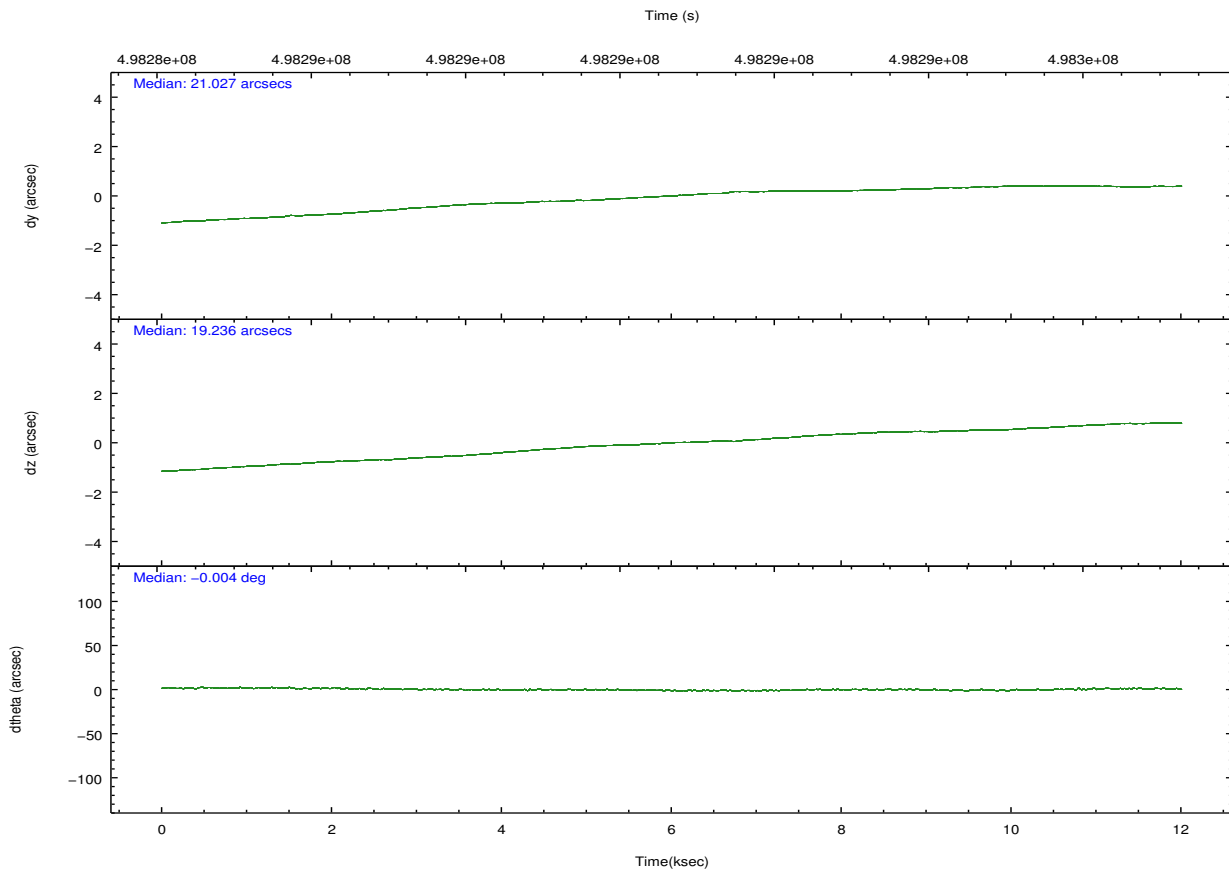
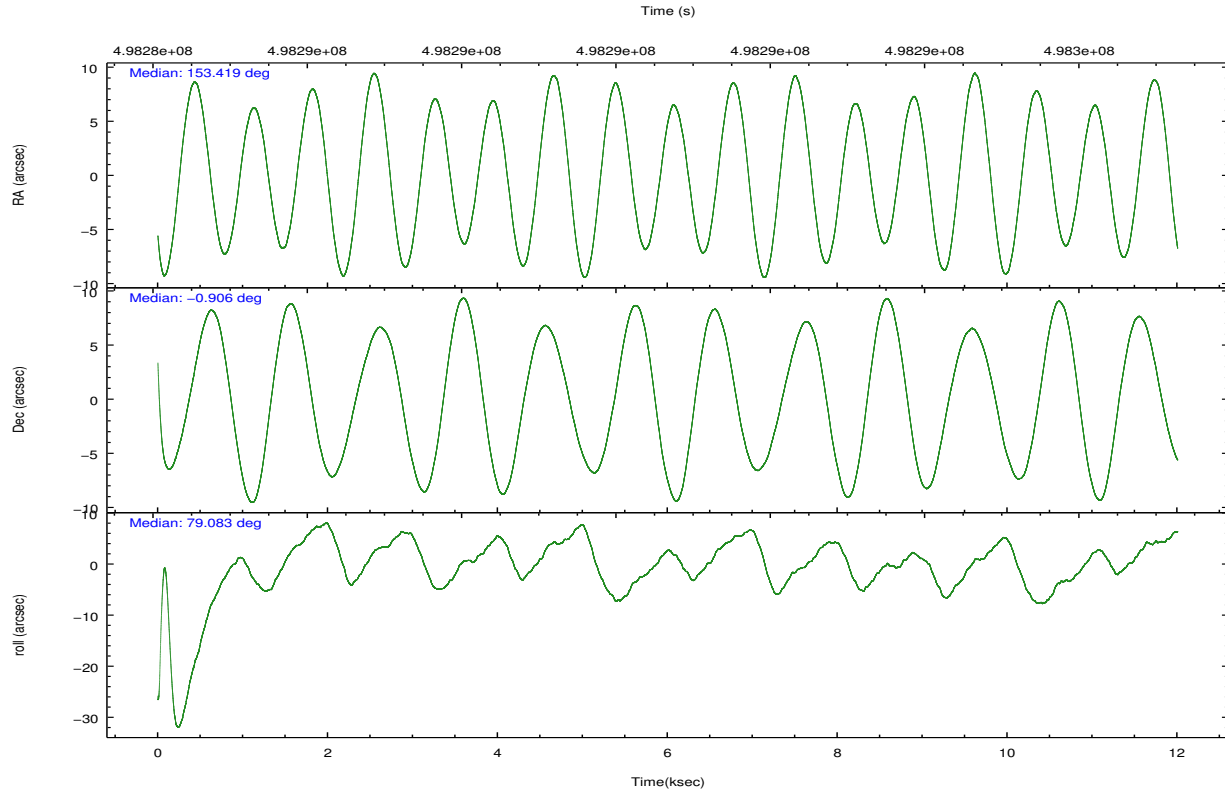
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	4057	4076	4083	4900	2323
	8%	7%	7%	9%	4%
grade 1 events	45	31	37	47	24
	0%	0%	0%	0%	0%
grade 2 events	1850	1754	1743	1632	1432
	3%	3%	3%	3%	2%
grade 3 events	747	744	697	733	623
	1%	1%	1%	1%	1%
grade 4 events	687	756	683	695	585
	1%	1%	1%	1%	1%
grade 5 events	2194	2387	2004	2512	2291
	4%	4%	3%	4%	4%
grade 6 events	1225	1407	1142	1253	1358
	2%	2%	2%	2%	2%
grade 7 events	39582	40922	44218	41391	42018
	78%	78%	80%	77%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01236	ACIS-01236	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	153.428200	153.4191059893222	CCD I2 on	Y	Y
[deg] Pointing Dec	-0.932357	-0.9064061164027384	CCD I3 on	Y	Y
[deg] Pointing Roll	78.876168	79.08466526009234	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	N	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	498284823.184000	498283525.26763	CCD S5 on	N	N
Observation start date	2013-10-16T04:25:56	2013-10-16T04:05:25	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	498296683.184000	498296919.45586	On-chip summing requested	N	N
Observation end date	2013-10-16T07:43:36	2013-10-16T07:48:39	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect





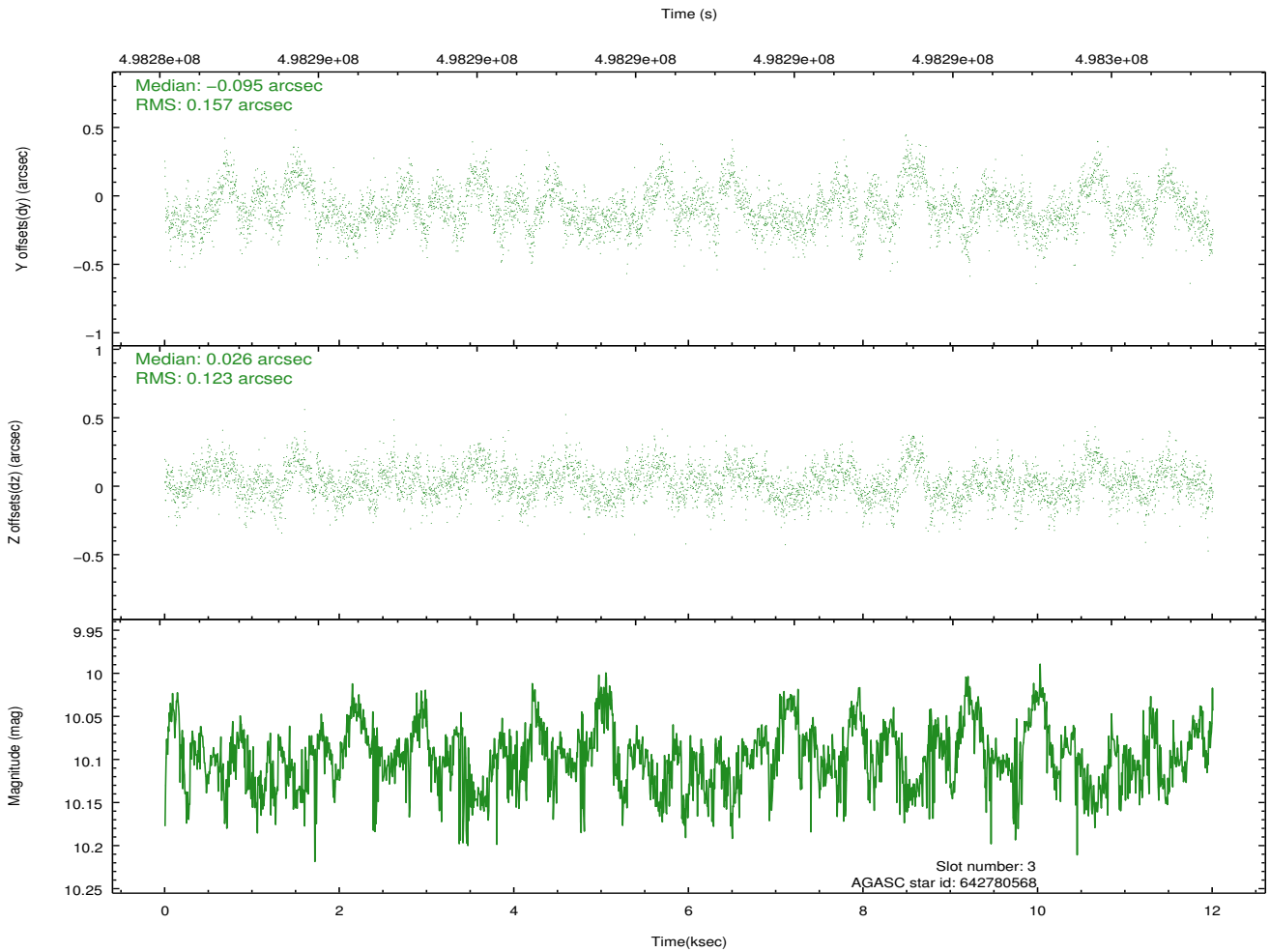
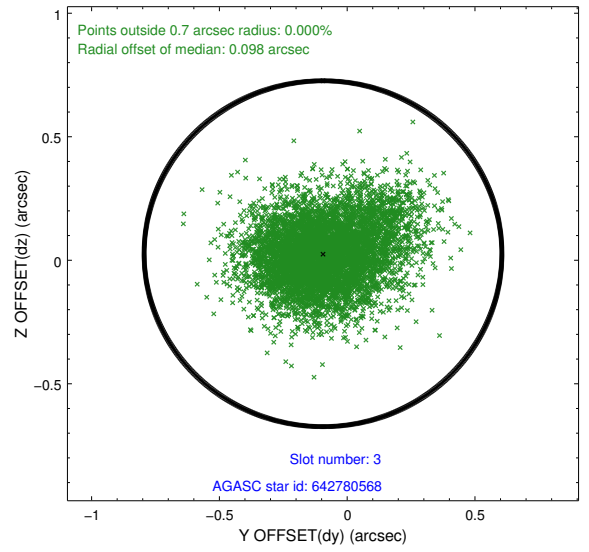
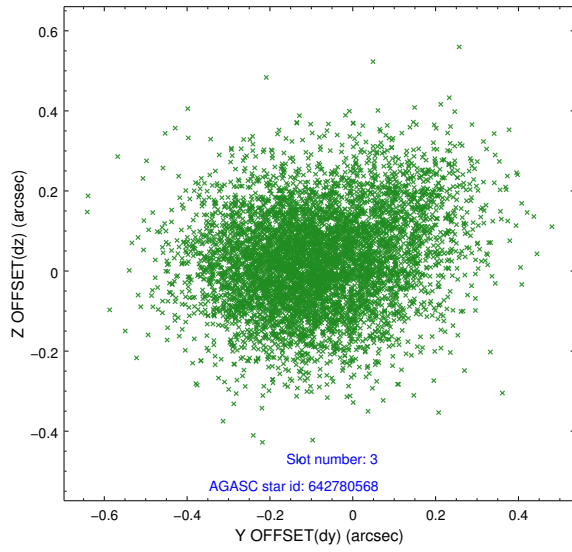
Slot Statistics

slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.06	2929	0.018	0.052	0.019	0.035	0.000000	0.000000	918.44	-842.80
1	FID		ACIS-I-5	7.06	2929	-0.227	0.027	0.012	0.024	0.000000	0.000000	-1829.75	1054.39
2	FID		ACIS-I-6	7.06	2929	0.118	-0.010	0.020	0.034	0.000000	0.000000	383.55	1699.39
3	GUIDE	used	642780568	10.10	5852	-0.095	0.026	0.209	0.351	153.574830	-0.346791	2170.01	-110.72
4	GUIDE	used	642783752	7.90	5858	0.185	-0.048	0.096	0.148	153.639411	-1.126972	-540.12	-880.84
5	GUIDE	used	642785416	8.94	5852	-0.018	0.123	0.143	0.209	153.061684	-1.260657	-1414.11	1066.49
6	GUIDE	used	642787648	9.80	5823	0.029	0.408	0.236	0.357	154.072131	-0.641558	1474.44	-2071.70
7	GUIDE	used	642779736	10.01	5803	-0.100	-0.513	0.207	0.346	152.881906	-0.299383	1856.97	2369.29

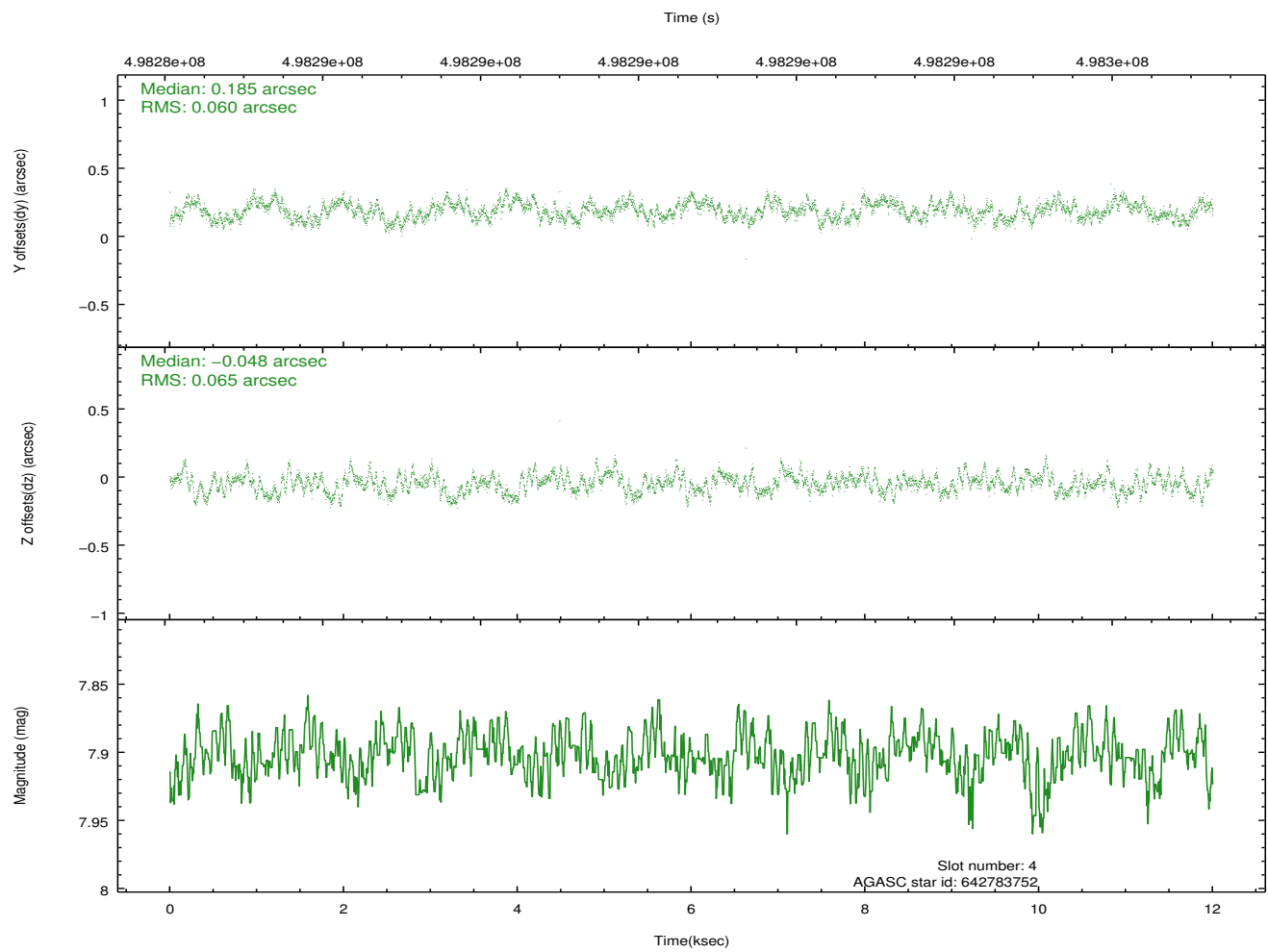
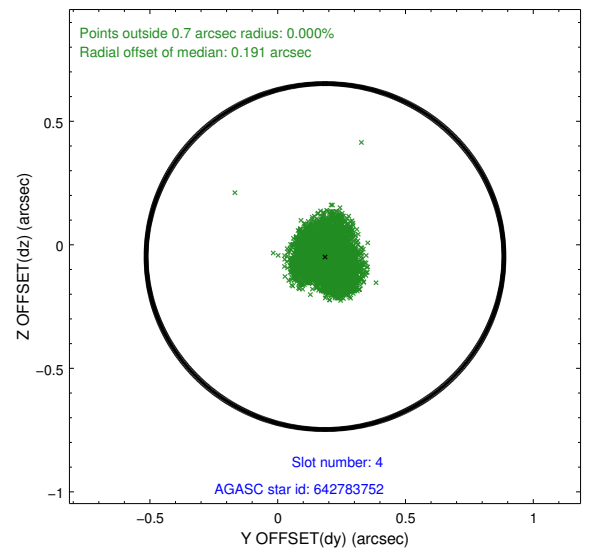
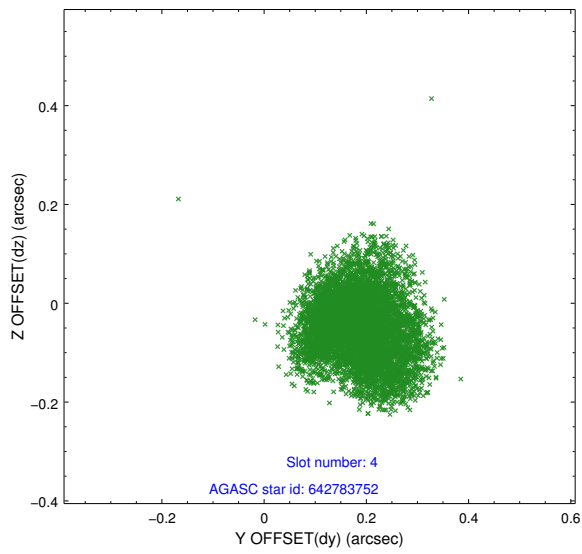
∞

2.4 Star Slots

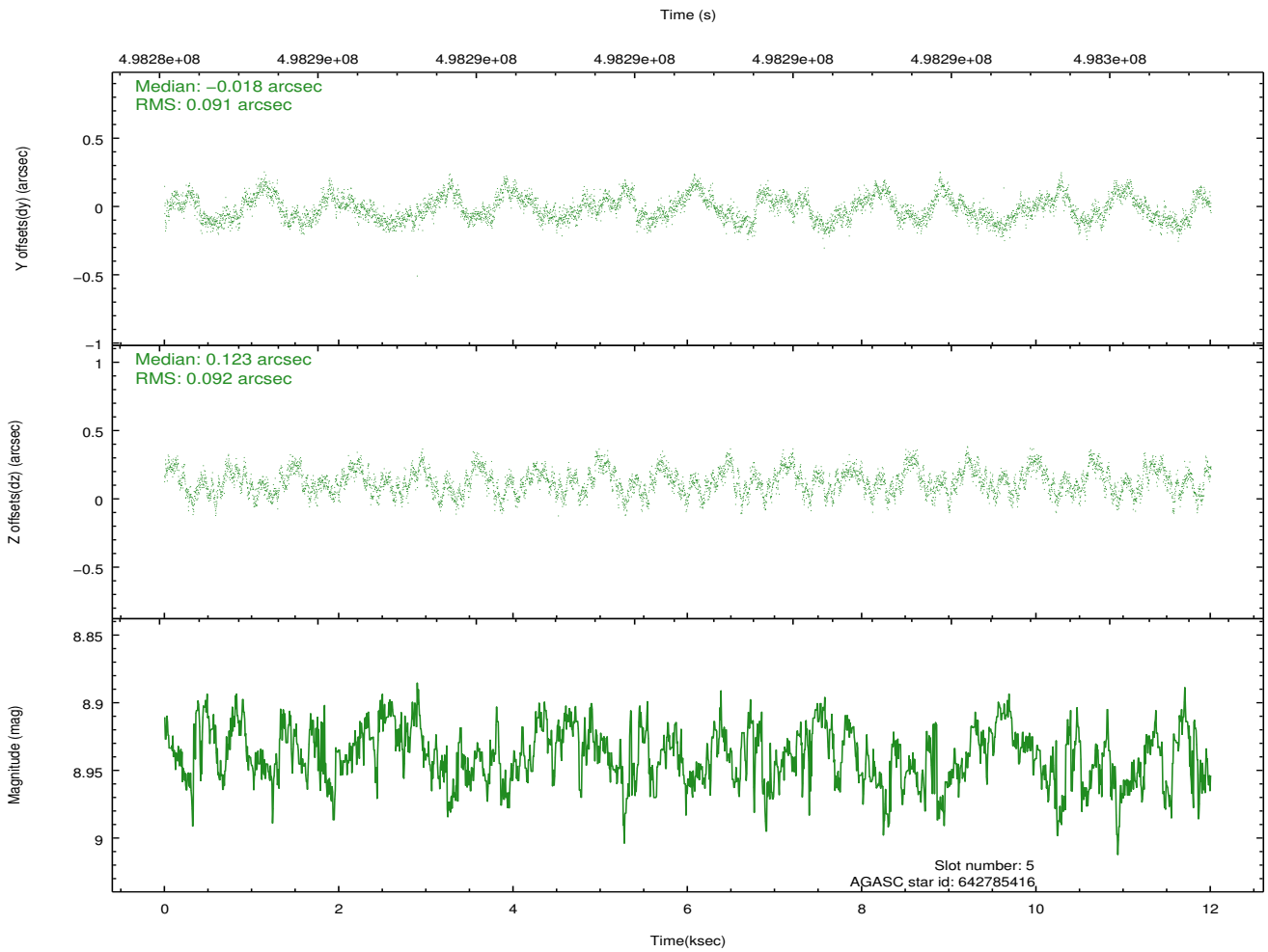
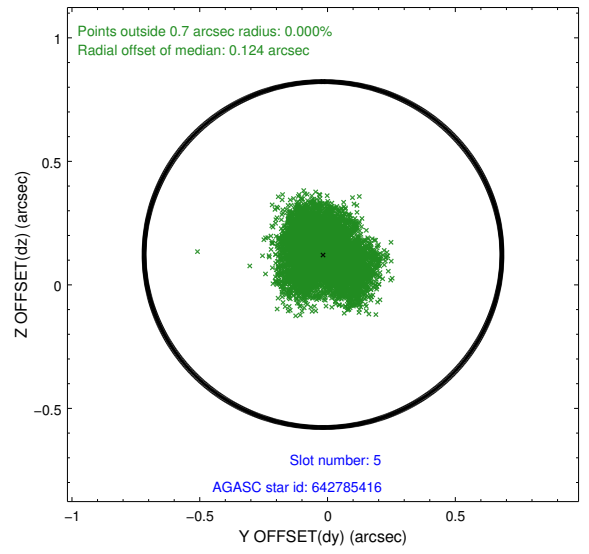
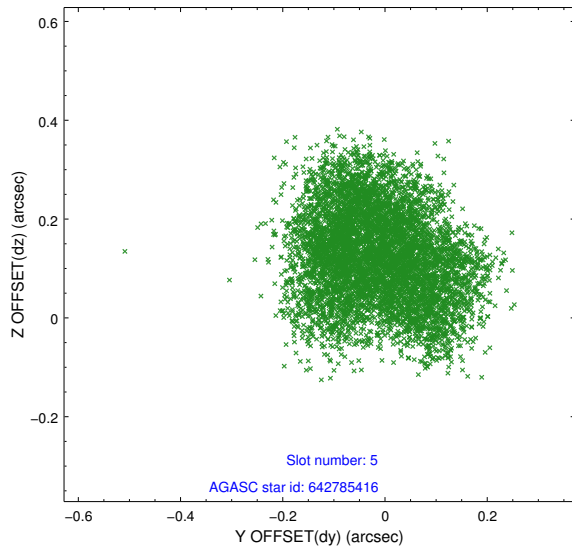
2.4.1 Slot 3



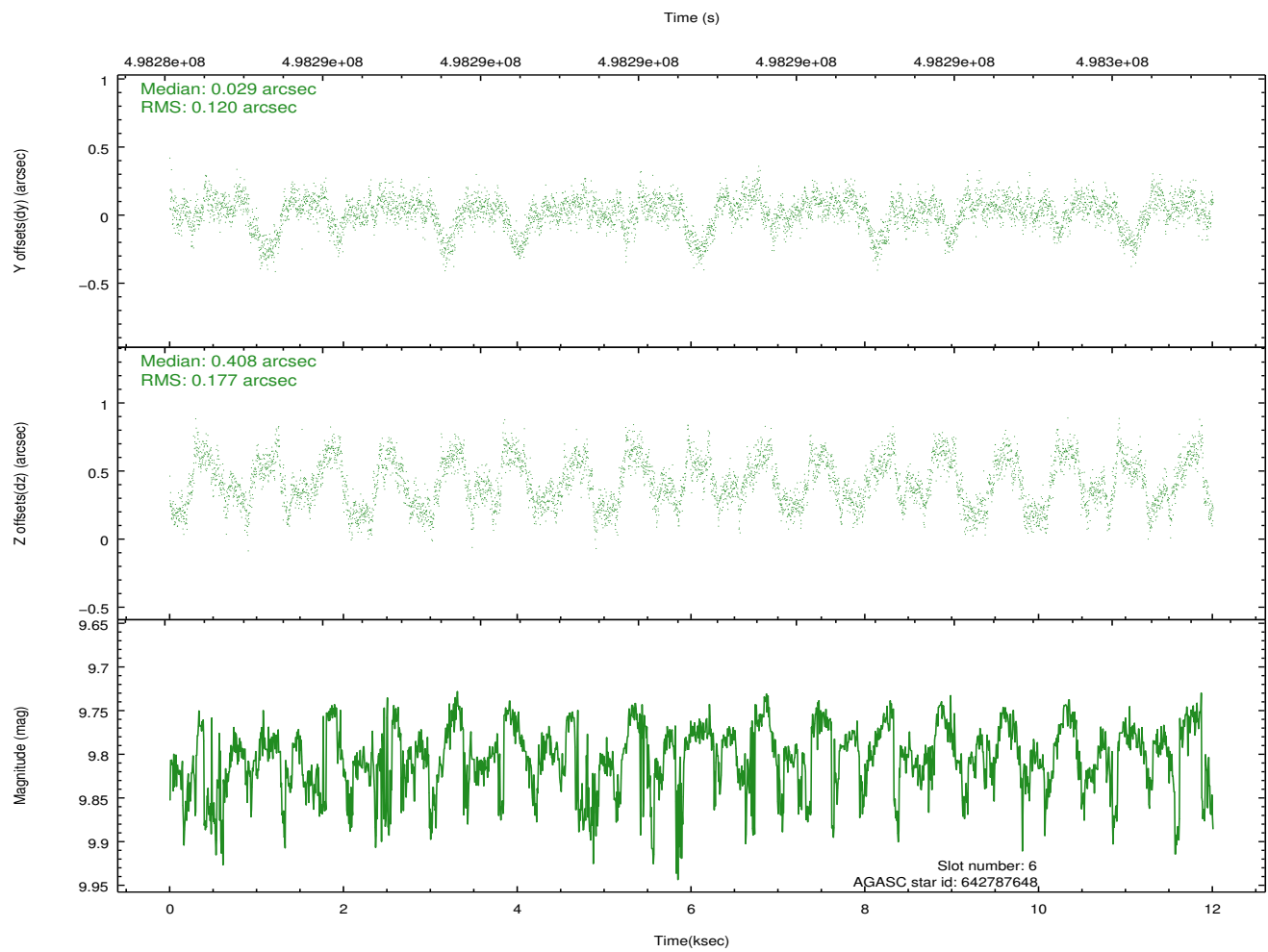
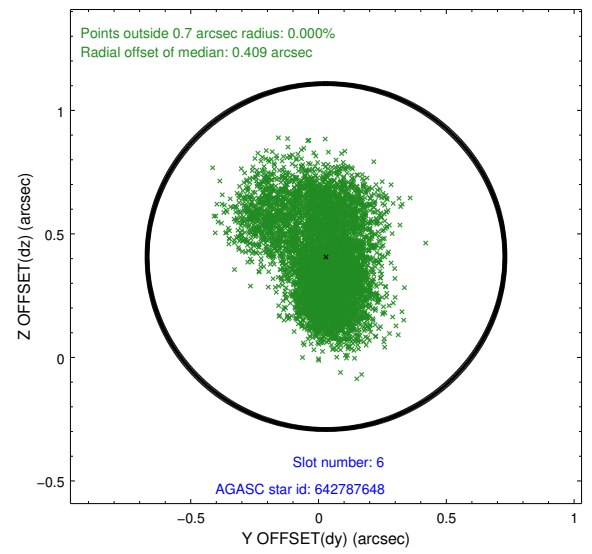
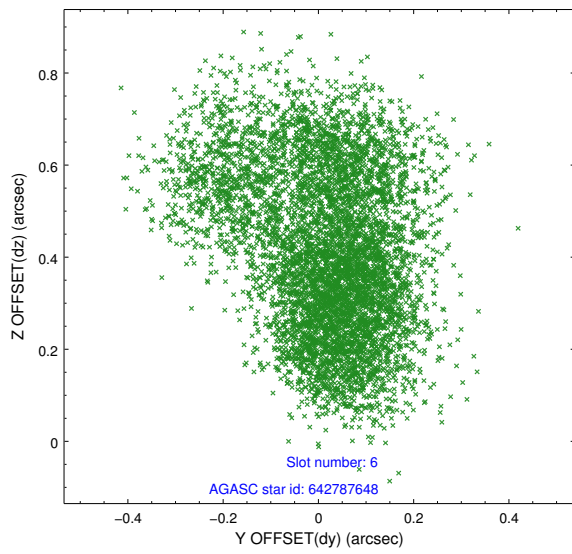
2.4.2 Slot 4



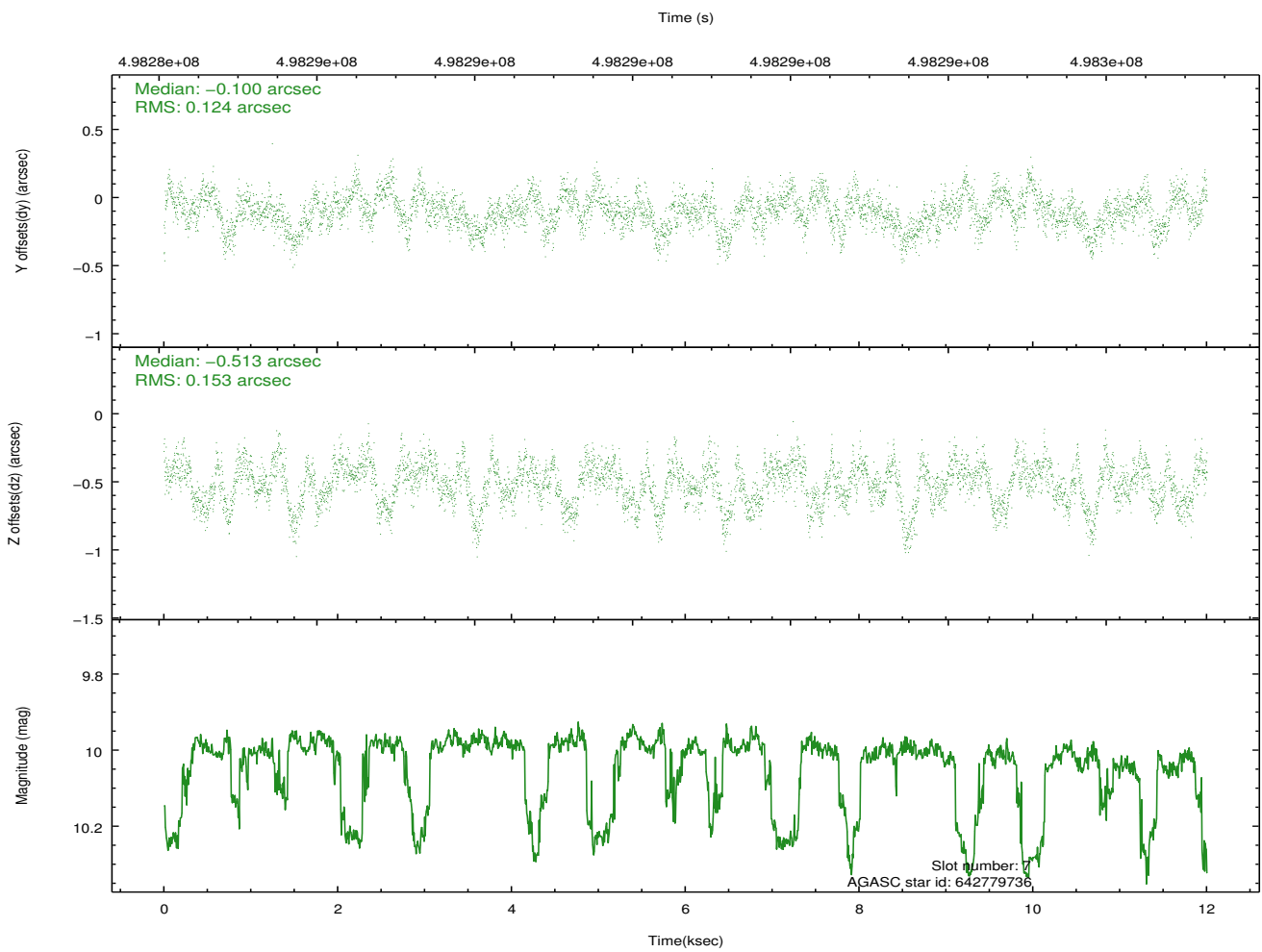
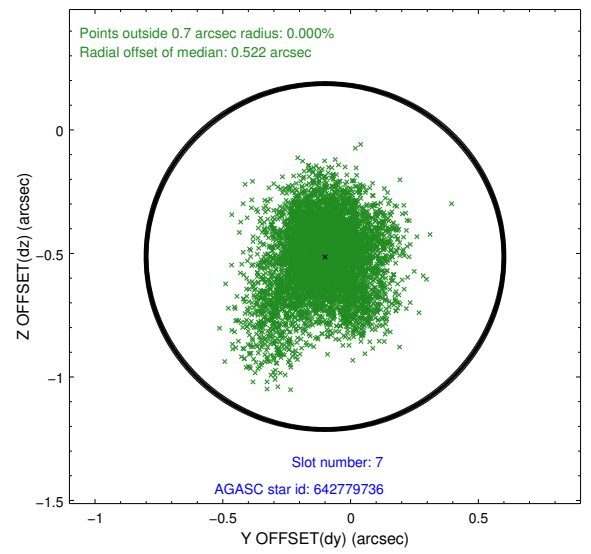
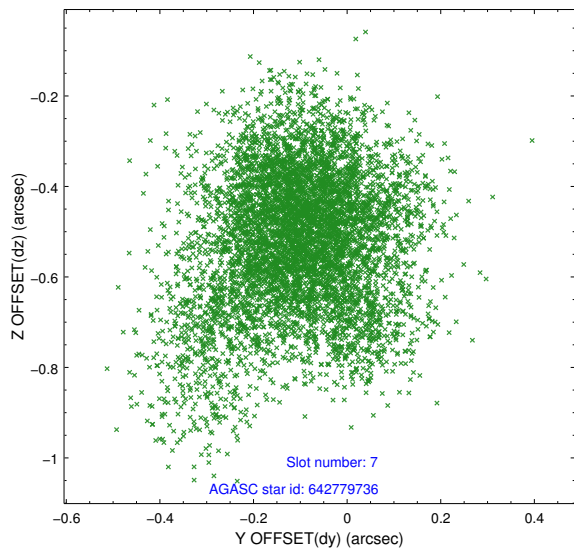
2.4.3 Slot 5



2.4.4 Slot 6

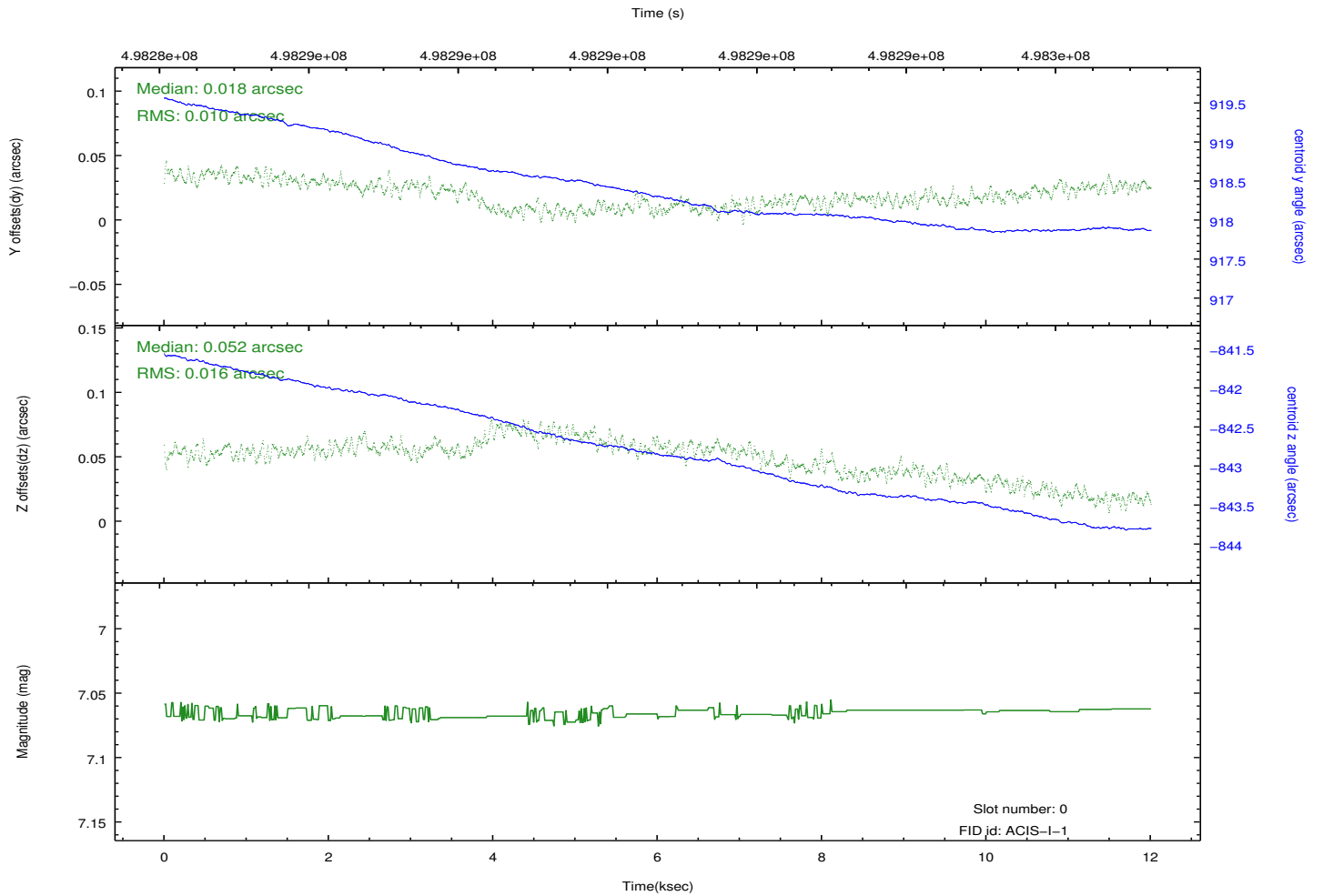
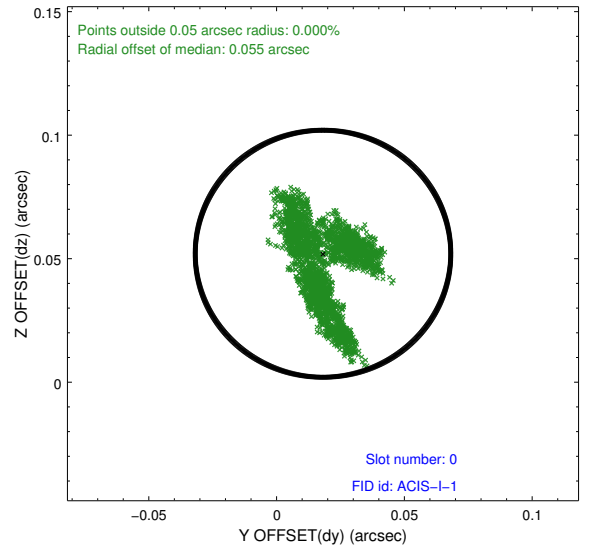
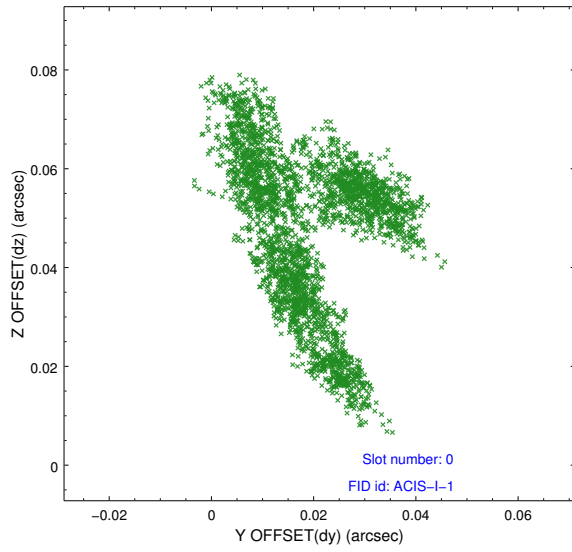


2.4.5 Slot 7

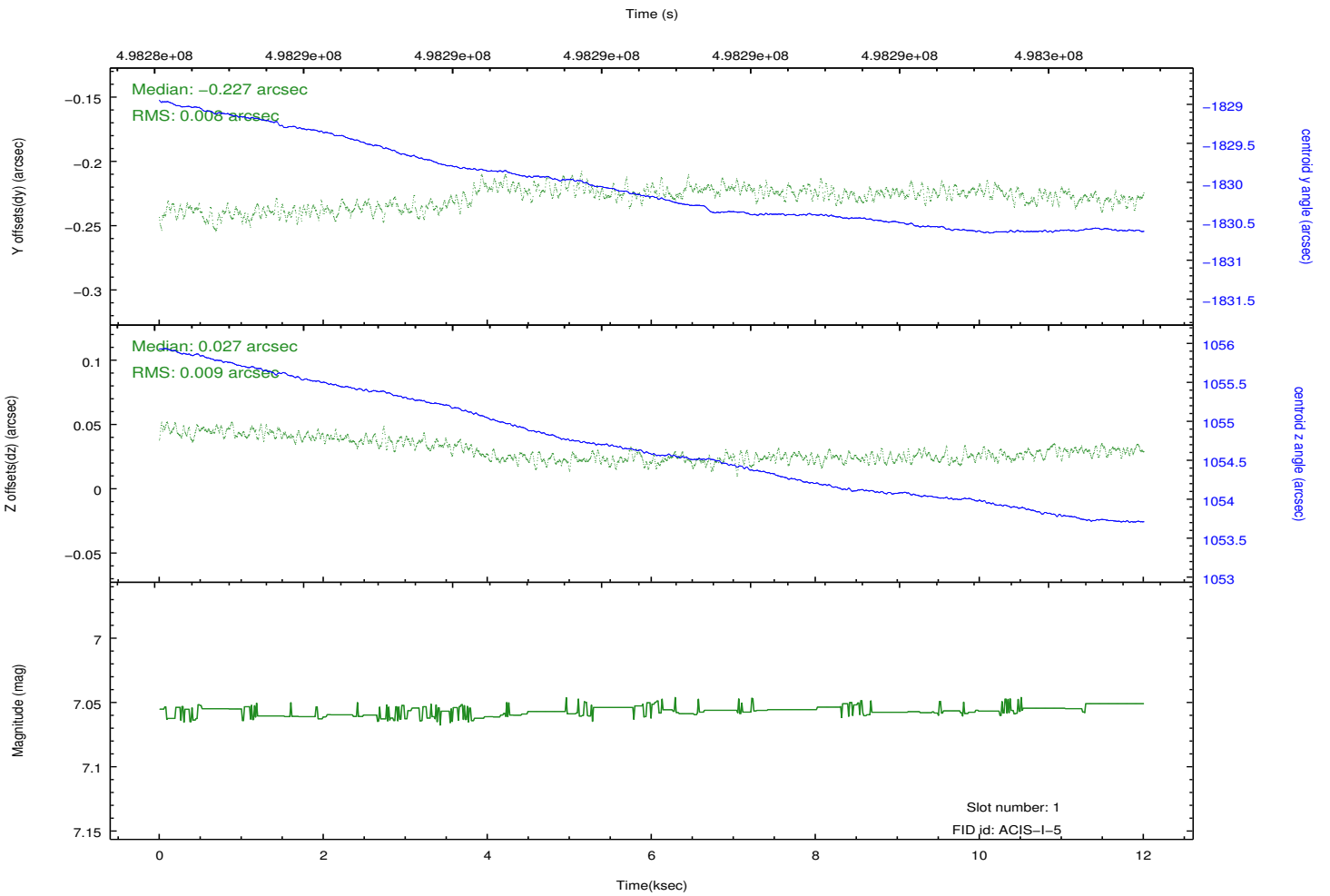
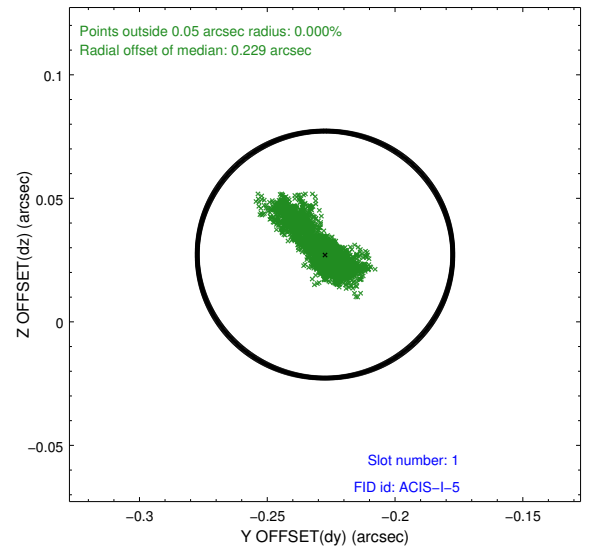
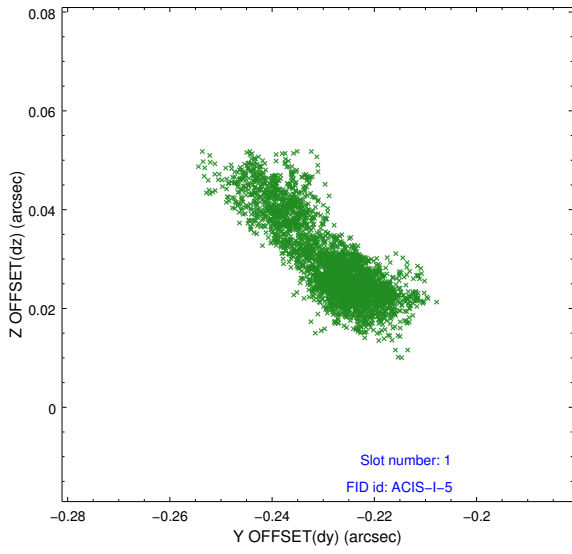


2.5 FID Slots

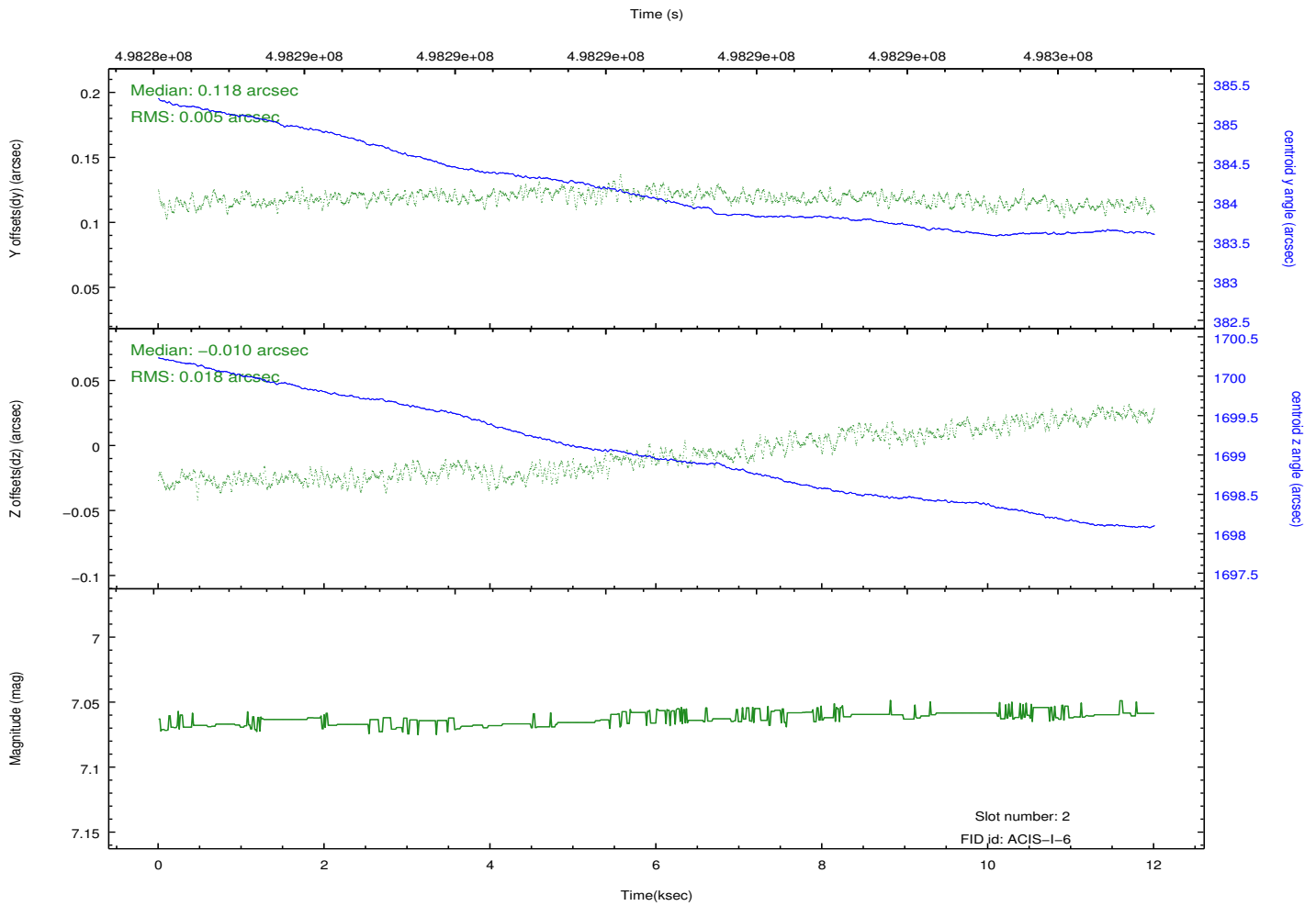
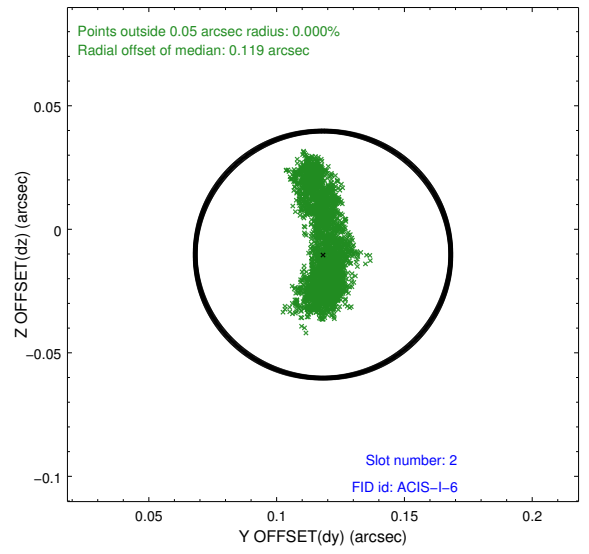
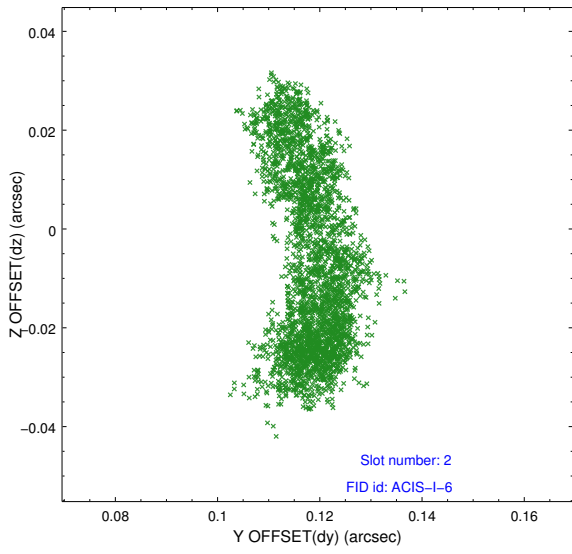
2.5.1 Slot 0



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)	2014.12.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.947400091887

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.