

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12138 - L2 Version 2
Chandra X-Ray Center

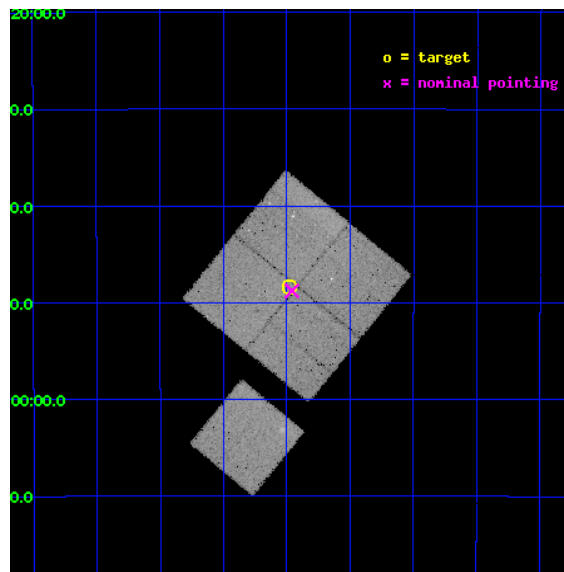
L2 Processing Date : Jun 24 2012

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1 Front

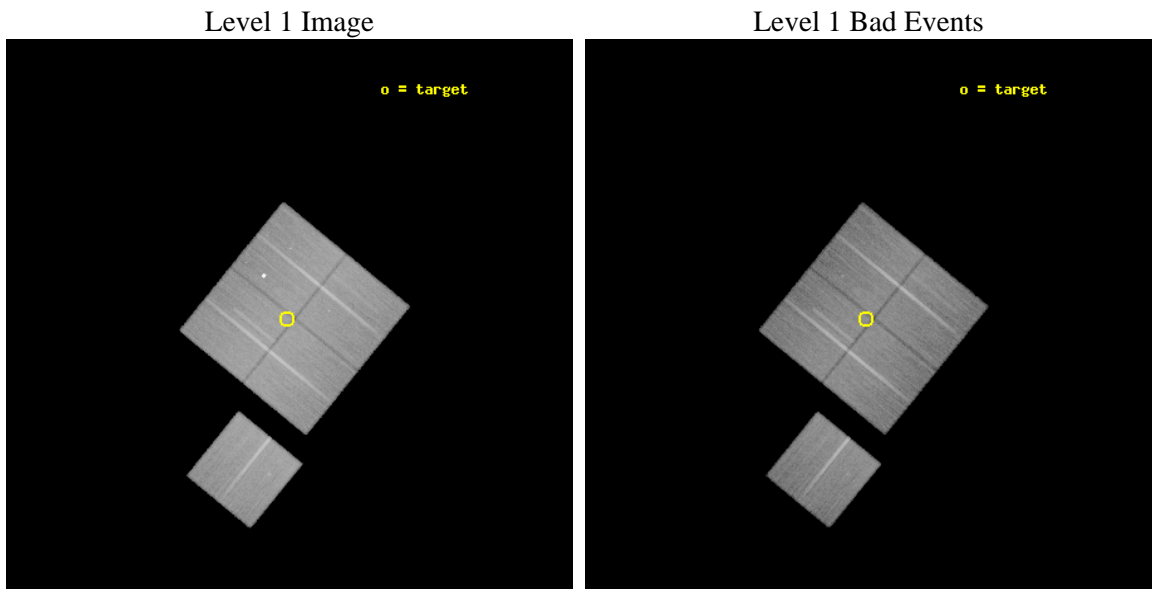
seq_num	900937	Sequence number
obs_id	12138	Observation id
title	The Chandra Deep Field-South Survey: An Ultradeep Chandra Legacy	P
observer	Dr. Harvey Tananbaum	Principal investigator
object	Chandra Deep Field-South	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	53.12	Observer's specified target RA [deg]
dec_targ	-27.806389	Observer's specified target Dec [deg]
ra_nom	53.114950078583	Nominal RA [deg]
dec_nom	-27.813125955991	Nominal Dec [deg]
roll_nom	219.20632841158	Nominal Roll [deg]
revision	2	Processing version of data
ontime	39044.418349802	Sum of GTIs [s]
livetime	38534.27427998	Livetime [s]
ontime0	39050.700300336	Sum of GTIs [s]
ontime1	39044.418339849	Sum of GTIs [s]
ontime2	39047.559339941	Sum of GTIs [s]
ontime3	39044.418349802	Sum of GTIs [s]
ontime6	39044.418349683	Sum of GTIs [s]
l2events	134300	Number of level 2 events



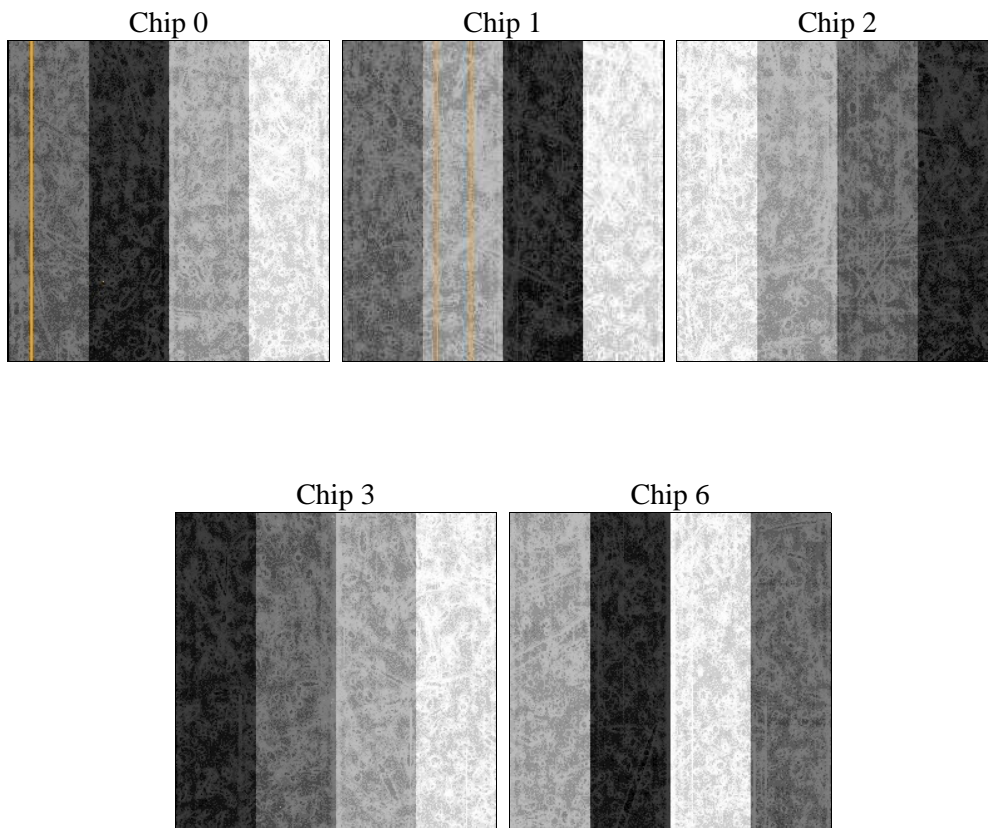
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	39000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	39044.418349802	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	39050.700300336	Sum of GTIs [s]
date	2012-06-24T10:00:39	Date and time of file creation	ontime1	39044.418339849	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	39047.559339941	Sum of GTIs [s]
			ontime3	39044.418349802	Sum of GTIs [s]
			ontime6	39044.418349683	Sum of GTIs [s]
			l1events	1454442	Number of level 1 events

2.1.4 Events

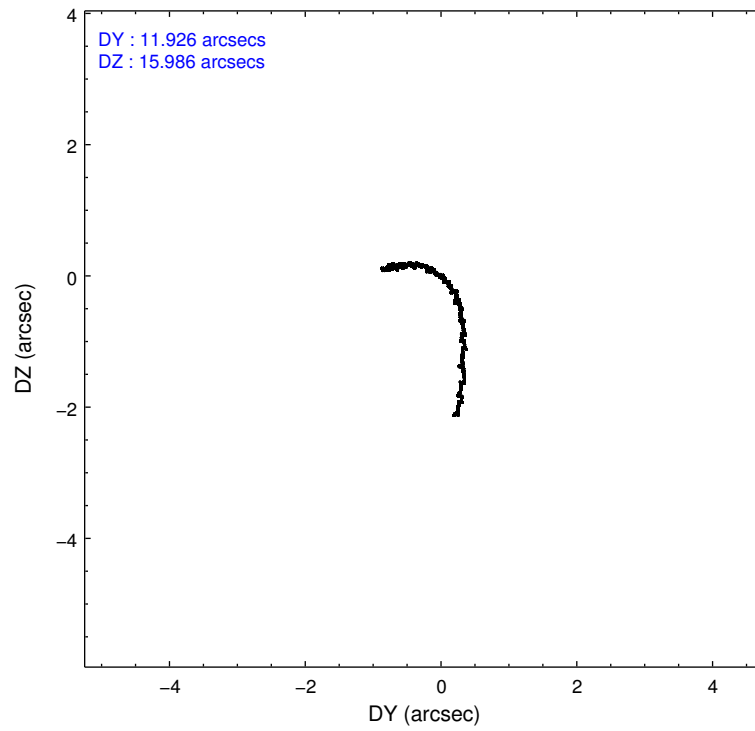
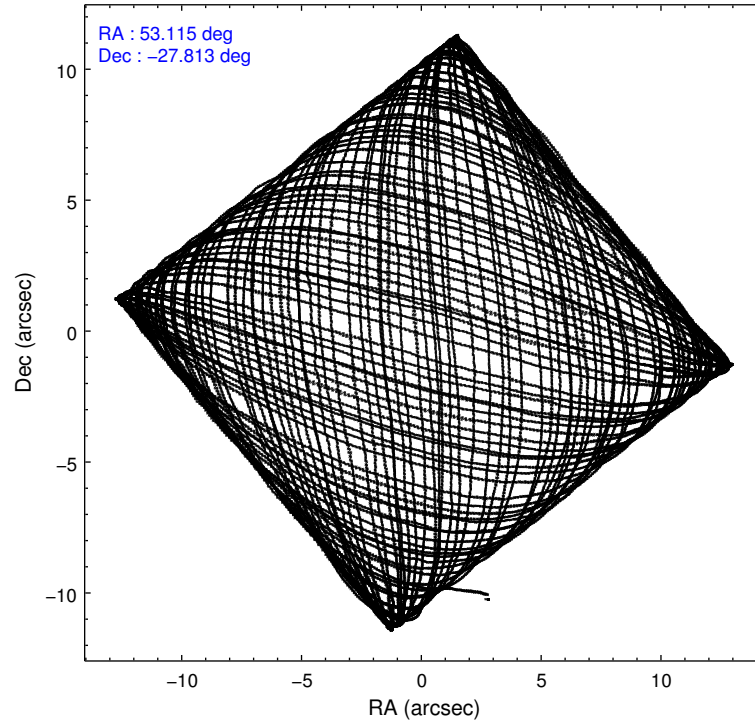
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	277361	292664	297320	290849	296248
rejected events	245620	244458	266569	261019	264043
rejected %	88%	83%	89%	89%	89%

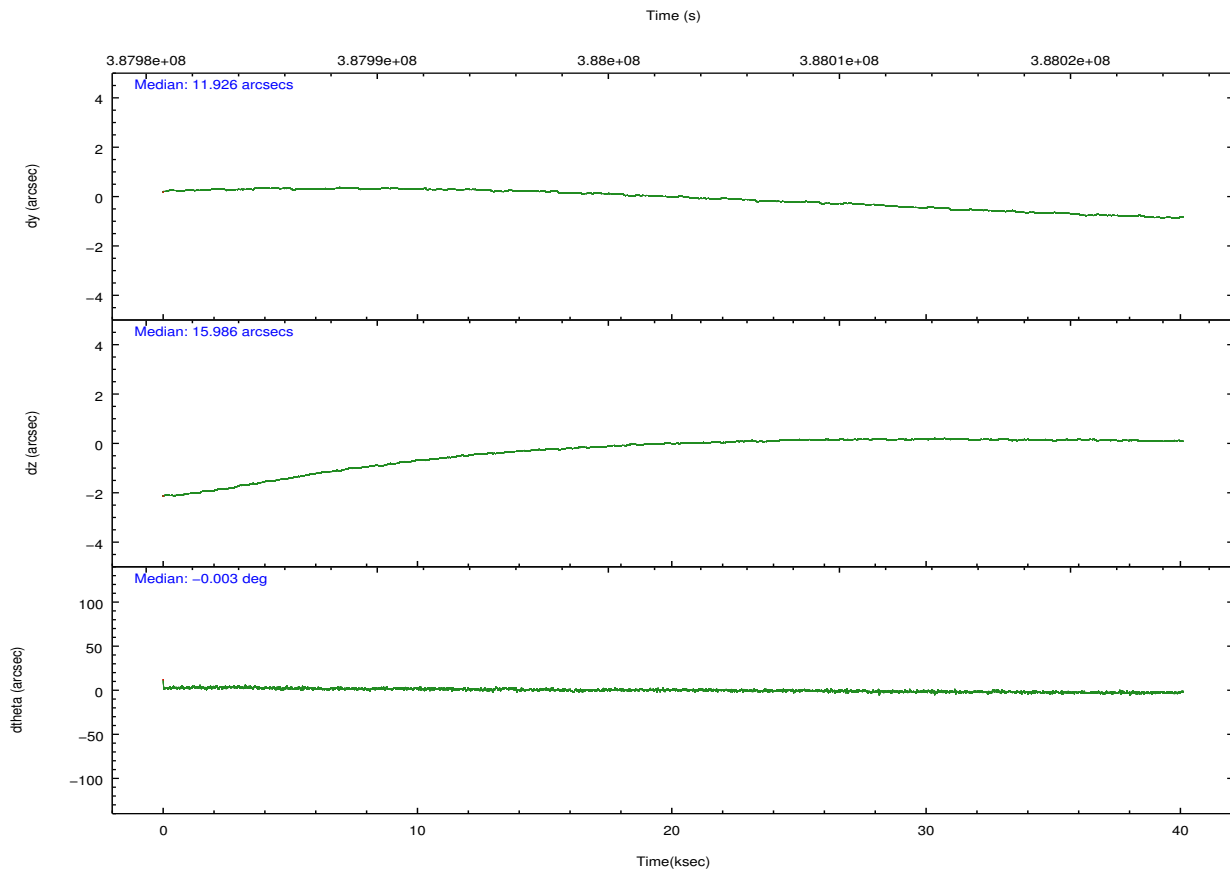
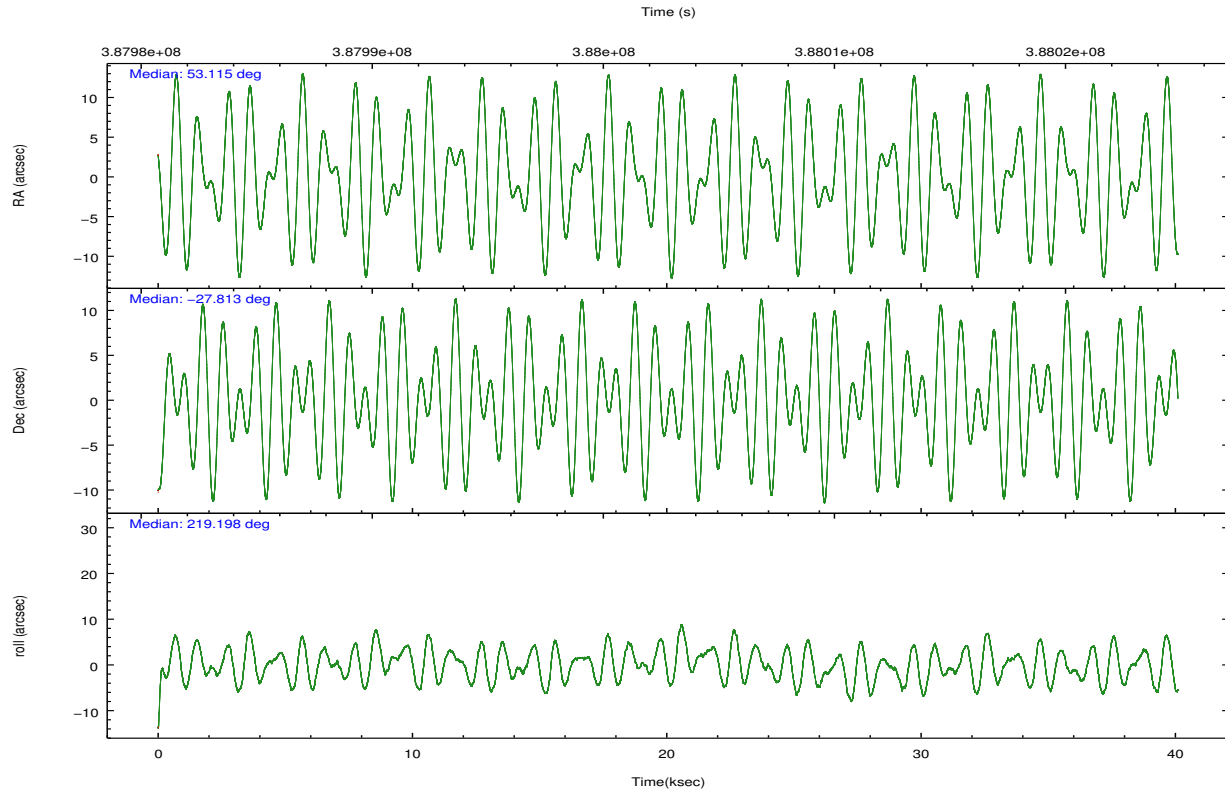
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	10919	24939	10609	10298	11284
	3%	8%	3%	3%	3%
grade 1 events	161	247	176	182	170
	0%	0%	0%	0%	0%
grade 2 events	7876	8455	7687	6762	7083
	2%	2%	2%	2%	2%
grade 3 events	3527	3695	3185	3347	3431
	1%	1%	1%	1%	1%
grade 4 events	3176	3714	3275	3363	3359
	1%	1%	1%	1%	1%
grade 5 events	11802	12593	11181	13458	12551
	4%	4%	3%	4%	4%
grade 6 events	6244	7405	5997	6062	7049
	2%	2%	2%	2%	2%
grade 7 events	233656	231616	255210	247377	251321
	84%	79%	85%	85%	84%

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	53.125871	53.11495007858294	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.787380	-27.81312595599125	CCD I3 on	Y	Y
[deg] Pointing Roll	219.002733	219.2063284115806	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)	387983852.184000	387981628.49527	CCD S5 on	N	N
Observation start date	2010-04-18T13:16:26	2010-04-18T12:40:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	388022852.184000	388024193.67243	On-chip summing requested	N	N
Observation end date	2010-04-19T00:06:26	2010-04-19T00:29:53	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



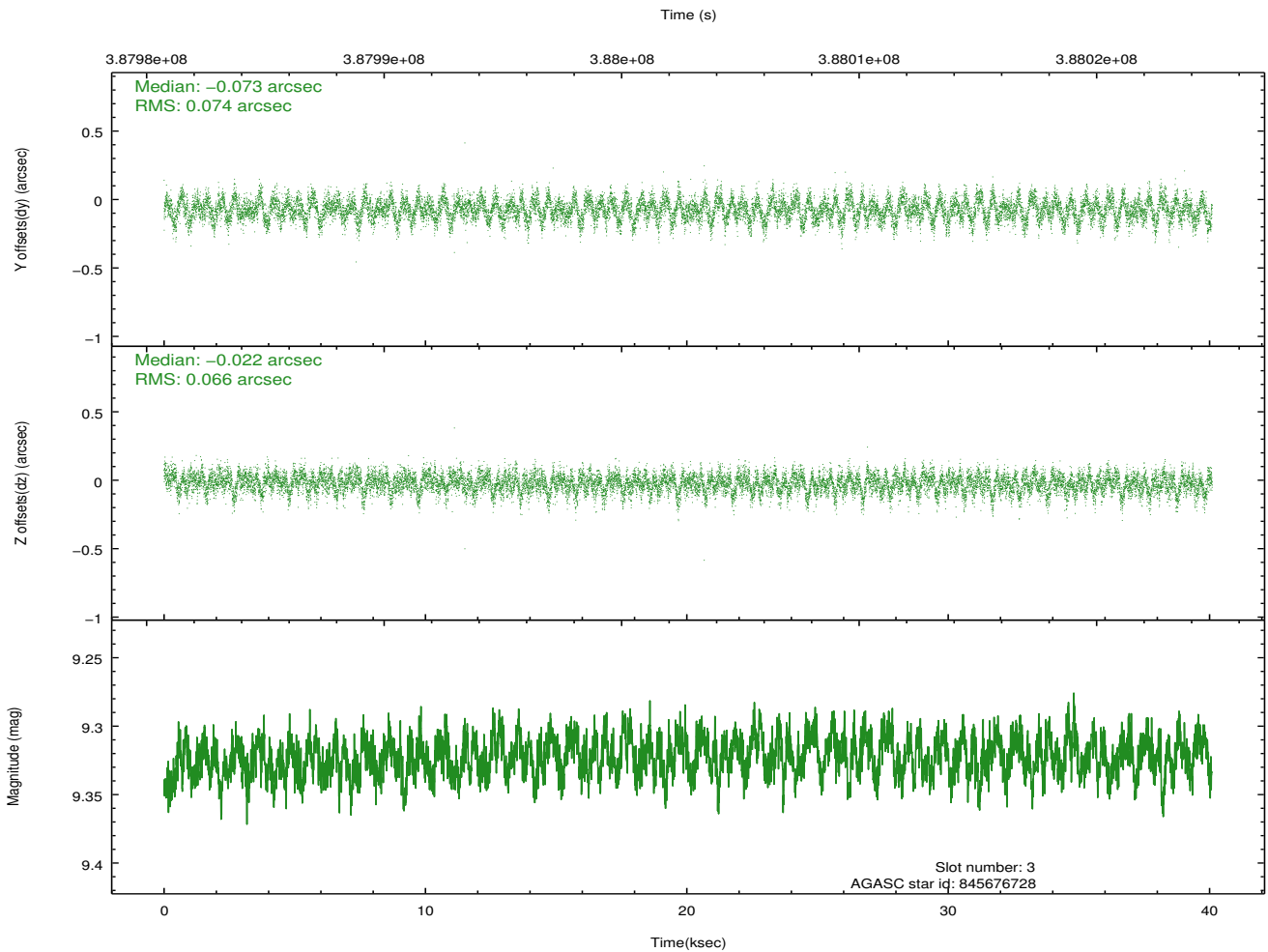
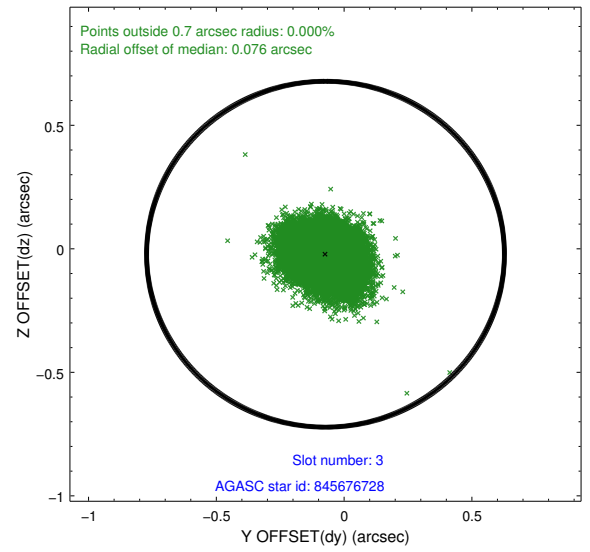
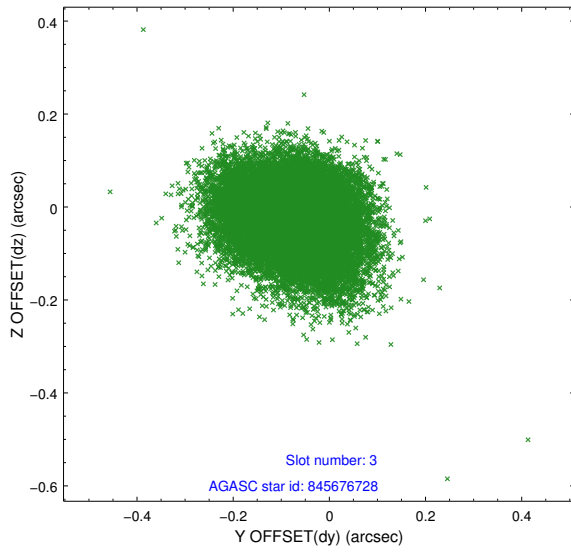


Slot Statistics

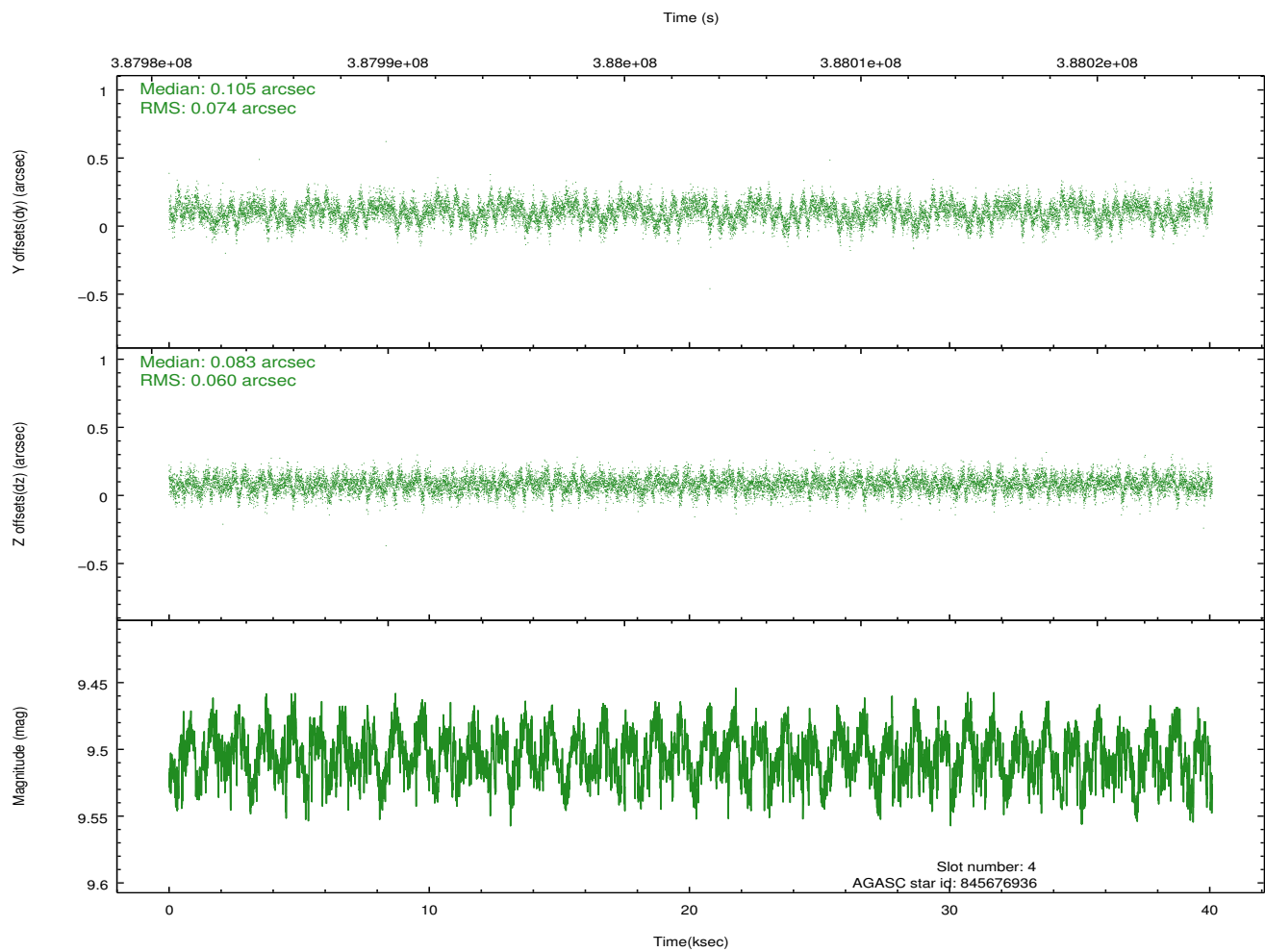
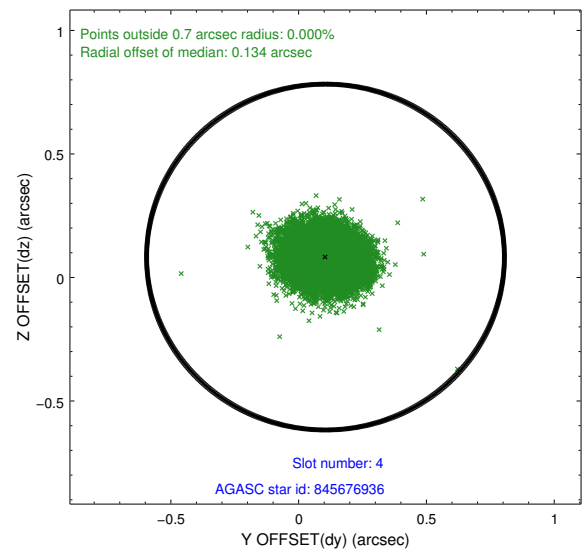
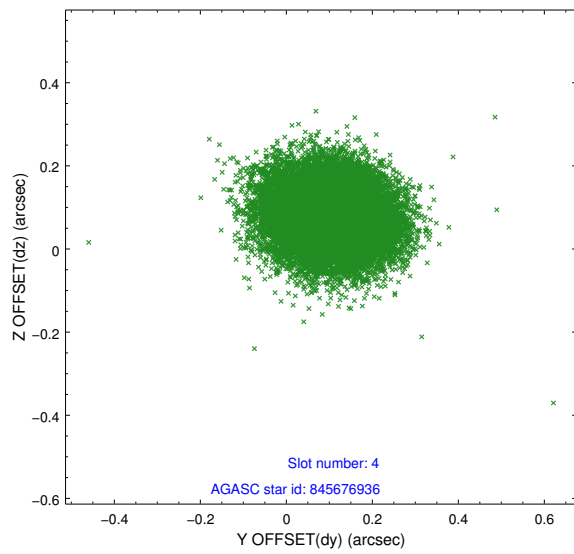
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.02	9781	-0.054	-0.011	0.028	0.091	0.000000	0.000000	927.68	-839.23
1	FID	ACIS-I-2	6.94	9781	-0.141	-0.051	0.017	0.038	0.000000	0.000000	-766.49	-845.76
2	FID	ACIS-I-4	6.94	9780	0.096	0.127	0.015	0.051	0.000000	0.000000	2147.69	1060.69
3	GUIDE	845676728	9.32	19535	-0.073	-0.022	0.105	0.172	52.877179	-27.664318	338.28	-842.32
4	GUIDE	845676936	9.51	19540	0.105	0.083	0.102	0.164	52.843773	-27.880153	908.55	-303.94
5	GUIDE	845807840	9.48	19478	0.032	-0.041	0.113	0.185	54.104867	-27.888625	-2183.76	2254.29
6	GUIDE	845807880	8.78	19551	-0.009	-0.041	0.074	0.120	53.382027	-27.886093	-409.13	790.17
7	GUIDE	845676584	9.71	19527	-0.052	0.027	0.122	0.201	52.264247	-27.542890	1590.10	-2406.82

2.4 Star Slots

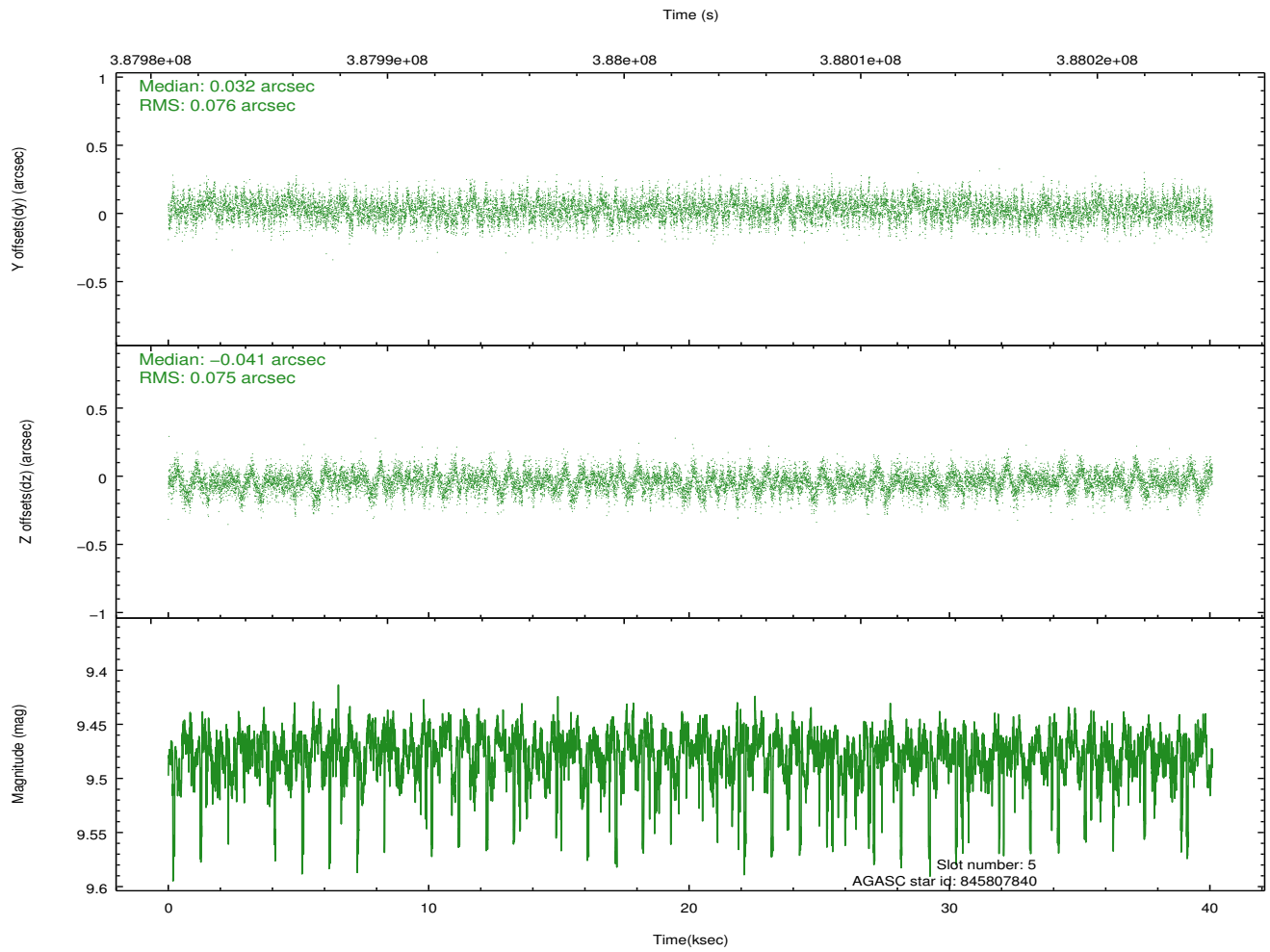
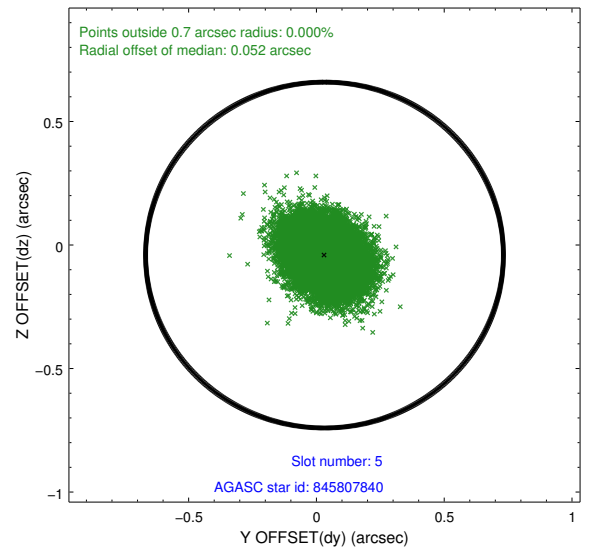
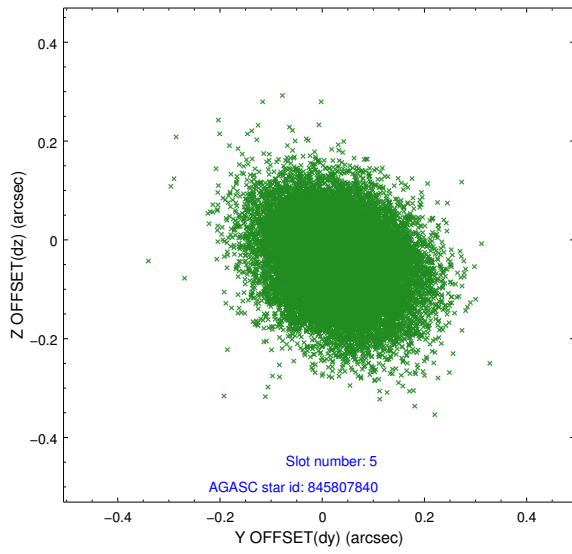
2.4.1 Slot 3



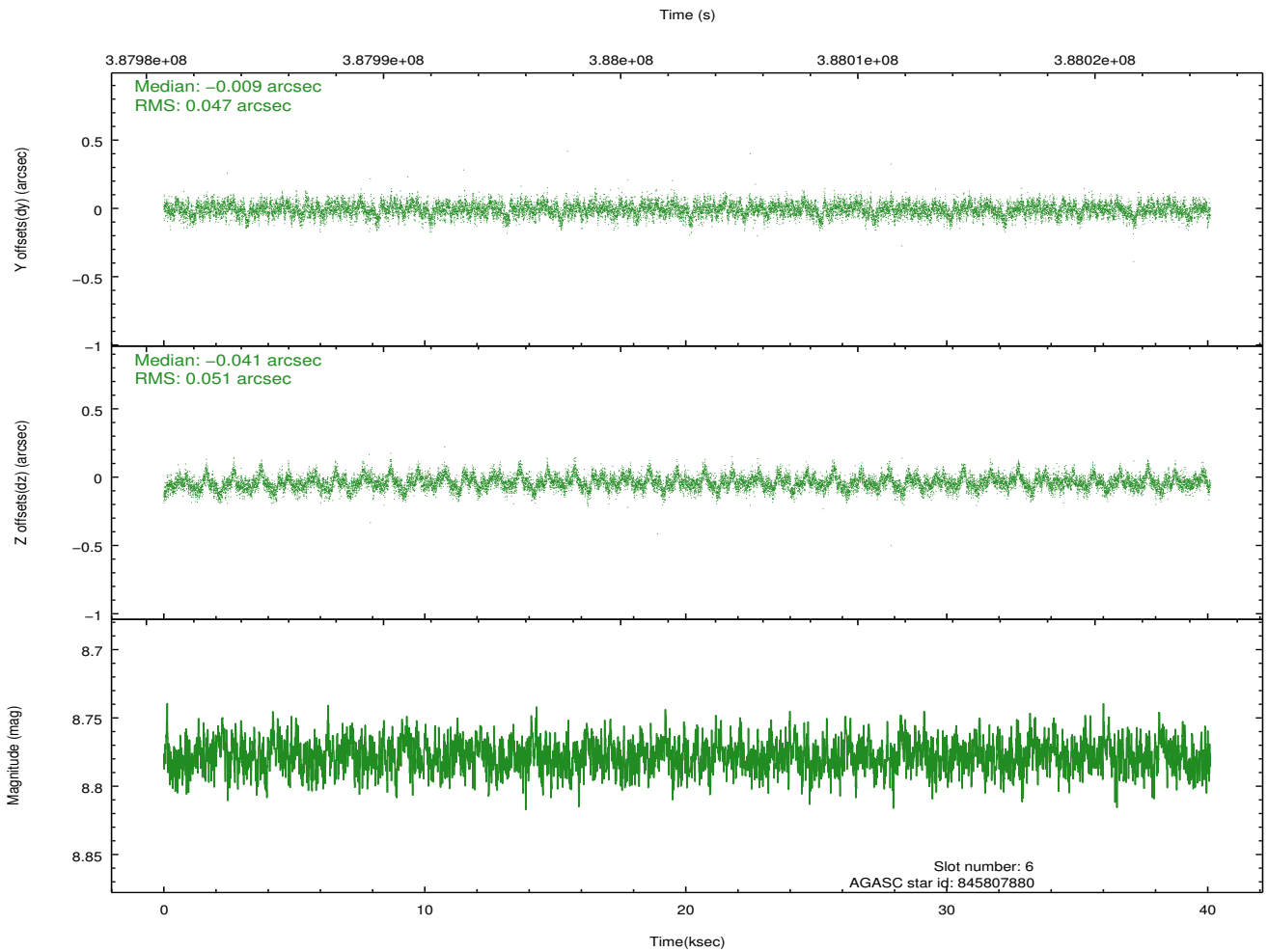
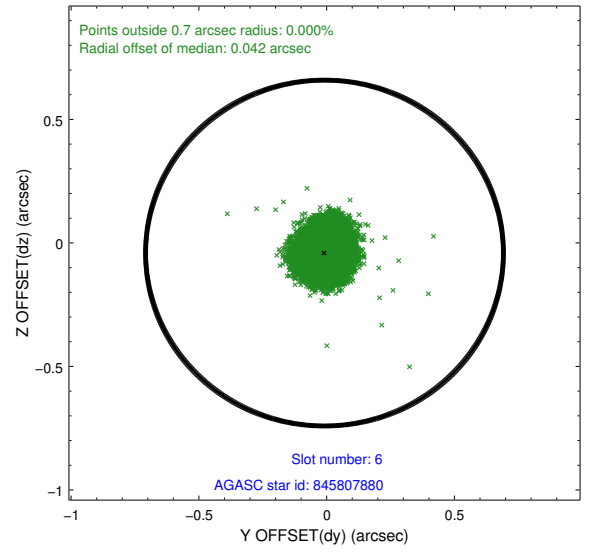
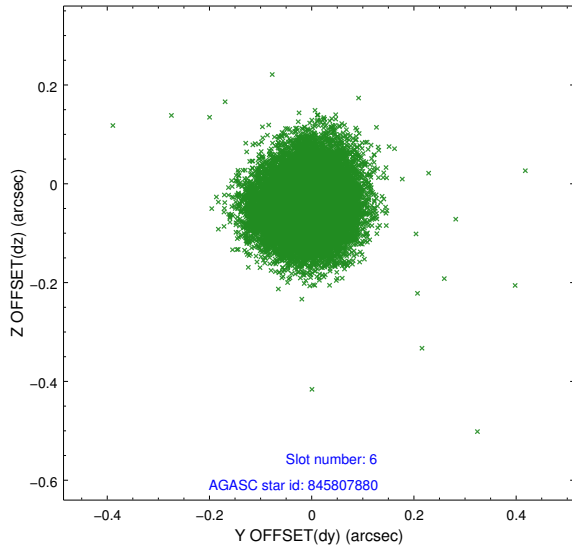
2.4.2 Slot 4



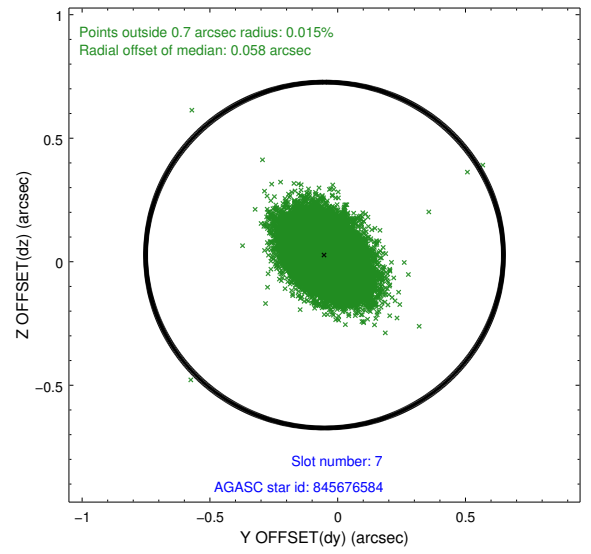
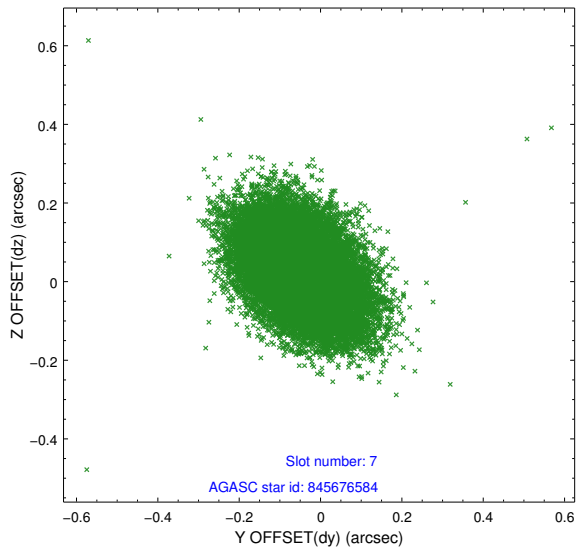
2.4.3 Slot 5



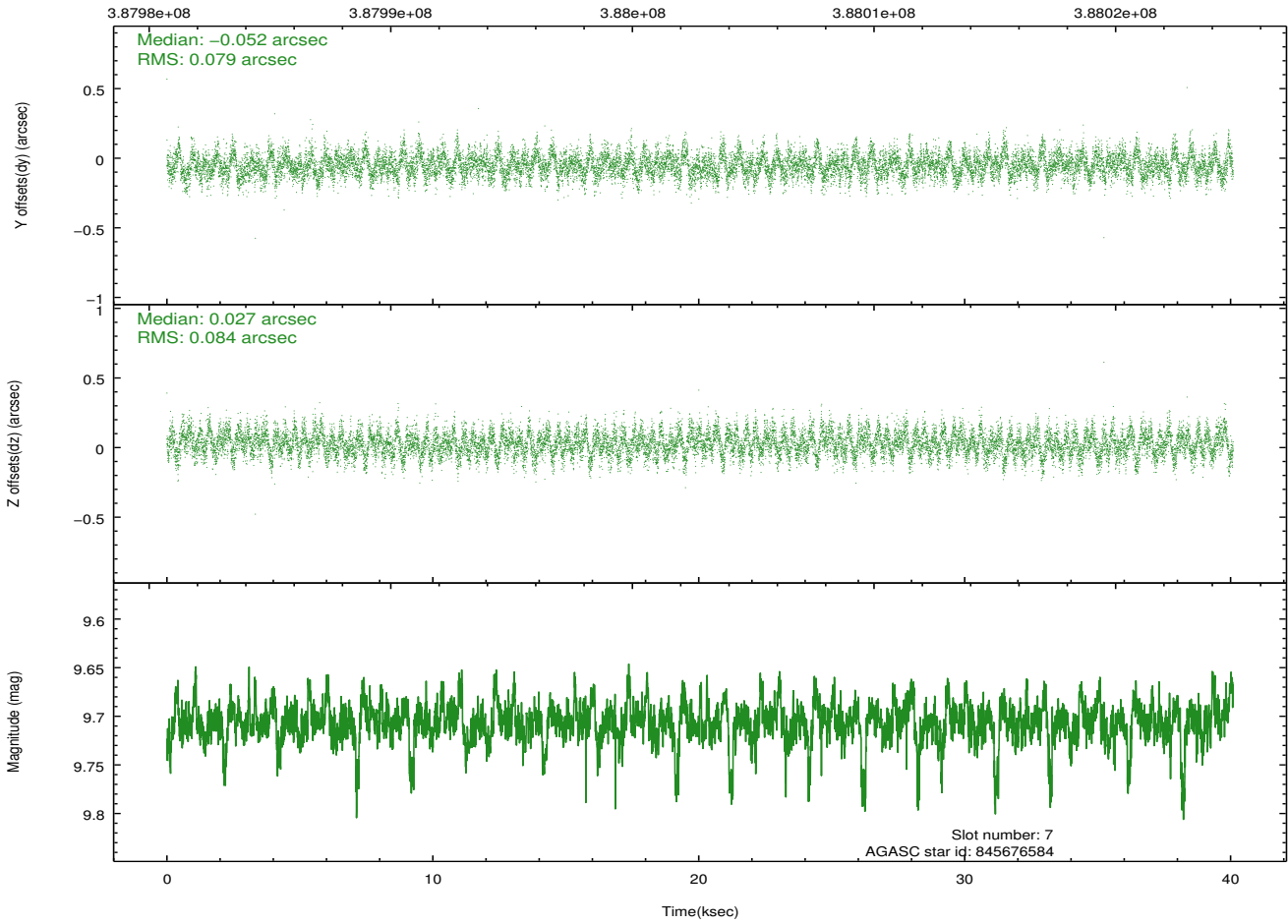
2.4.4 Slot 6



2.4.5 Slot 7

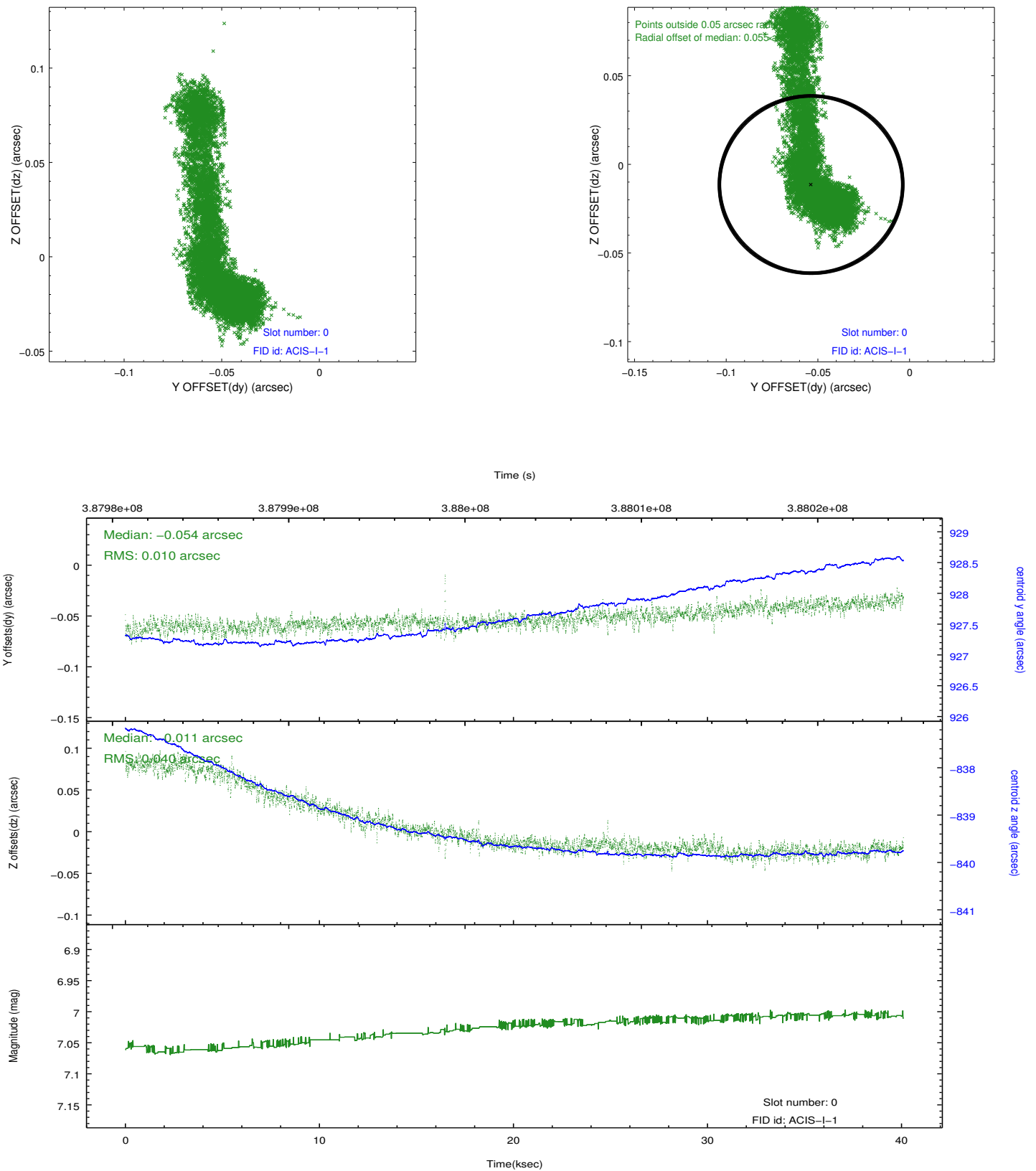


Time (s)

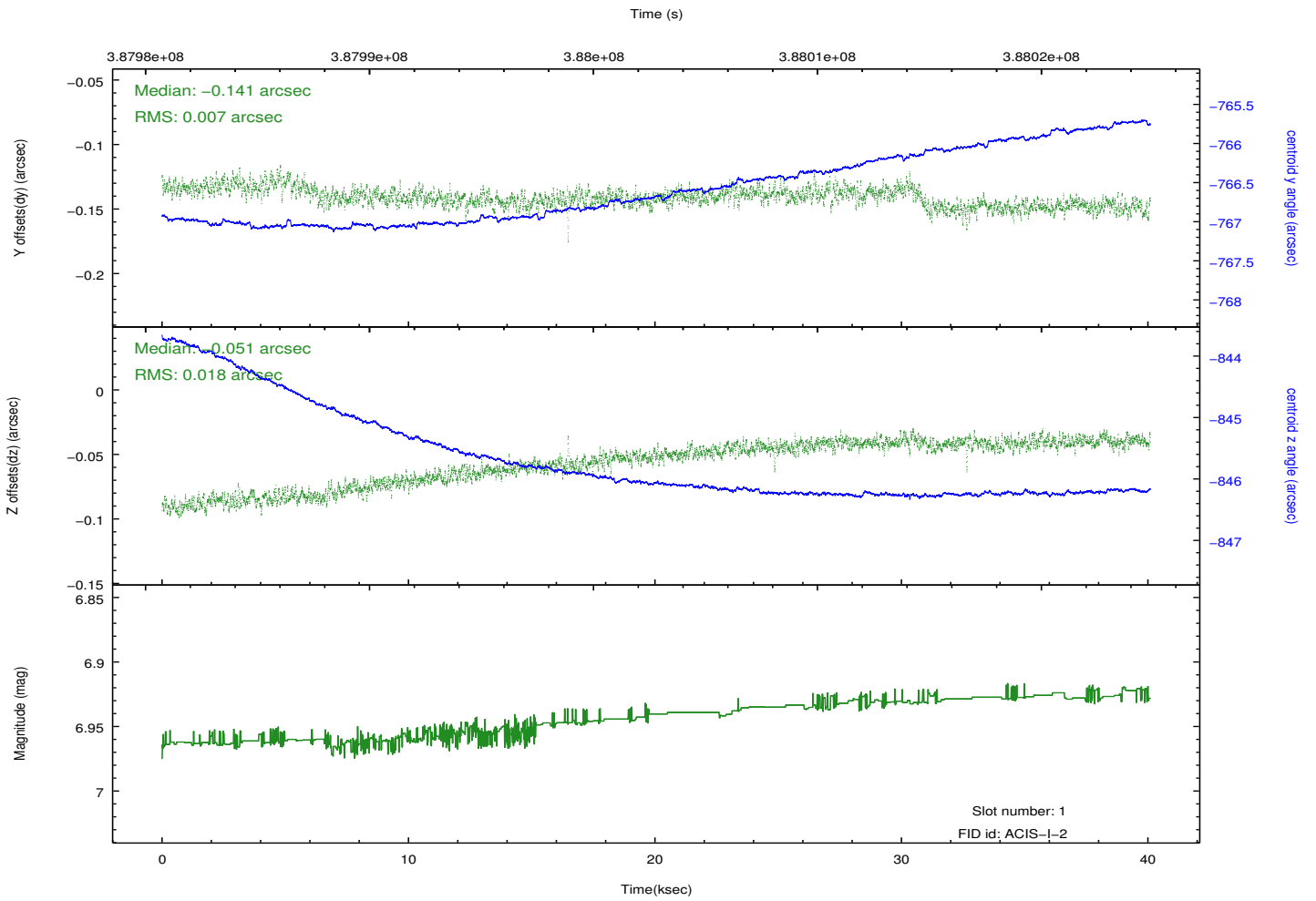
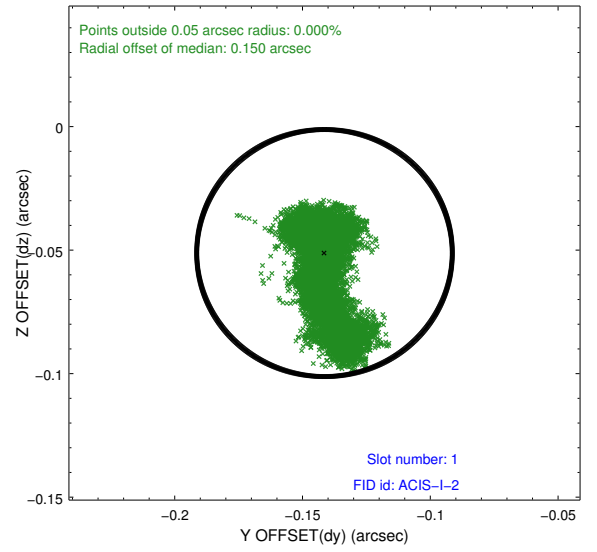
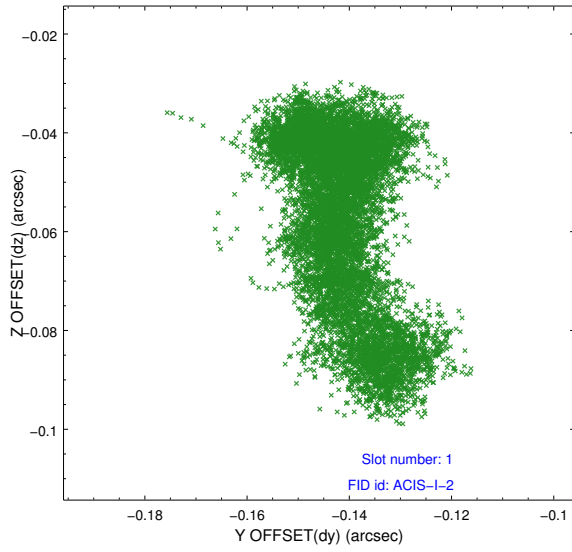


2.5 FID Slots

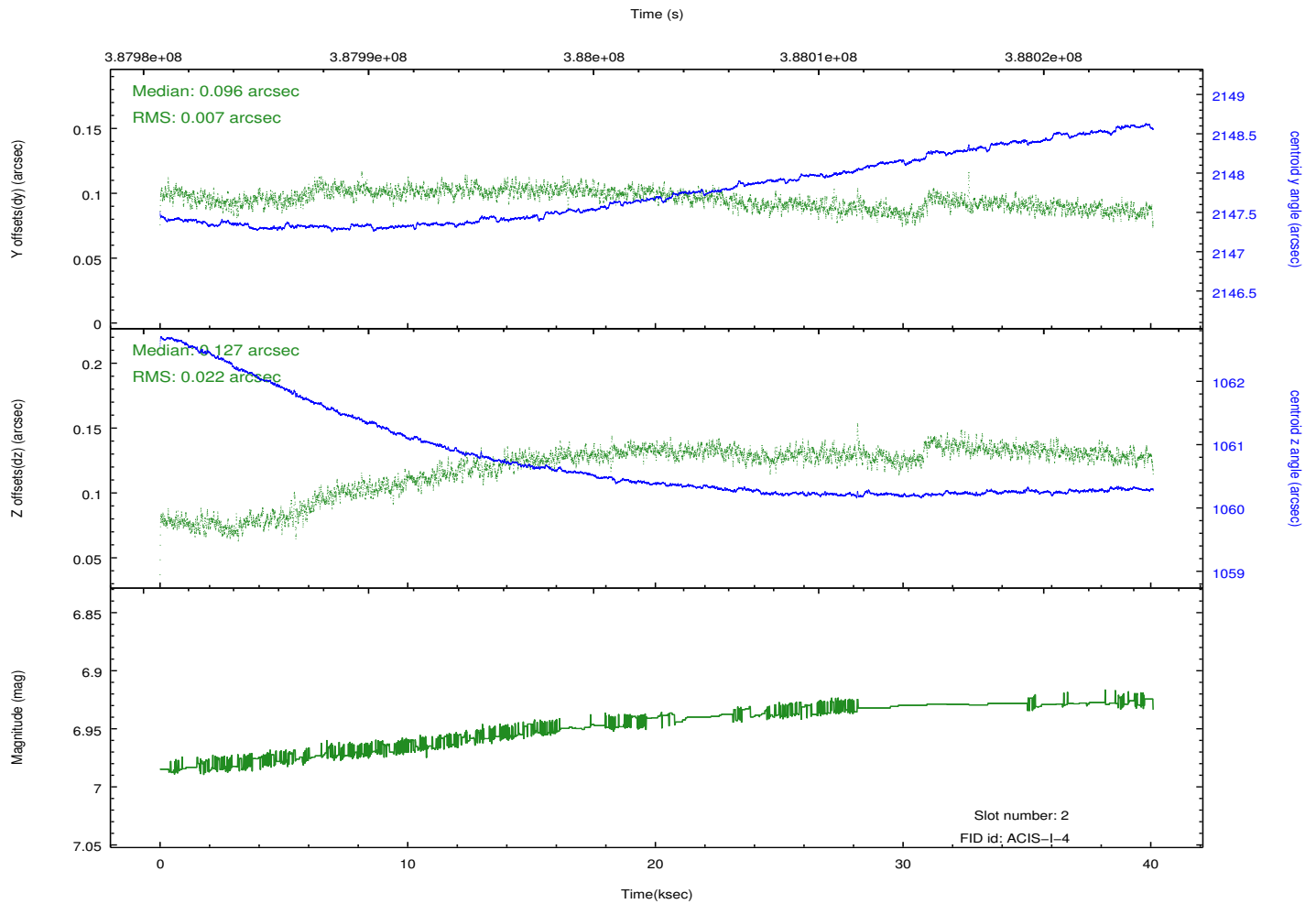
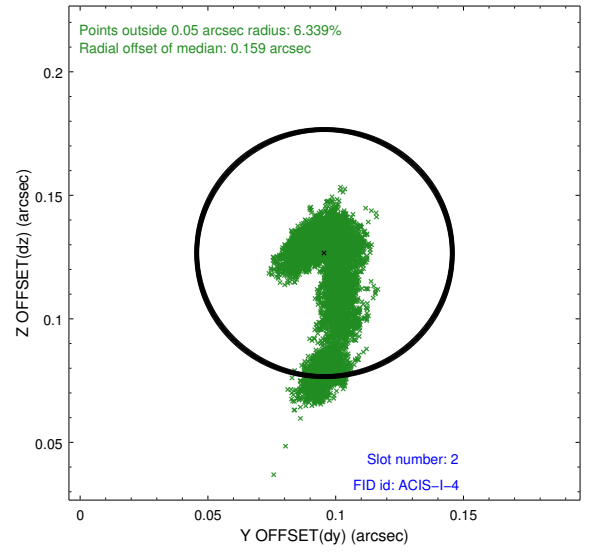
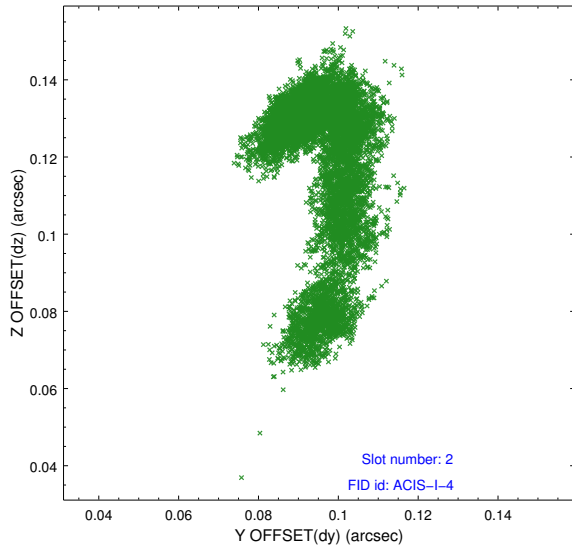
2.5.1 Slot 0



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)	2012.07.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.044418349743

A.2 Comments