

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 18592 - L2 Version 1
Chandra X-Ray Center

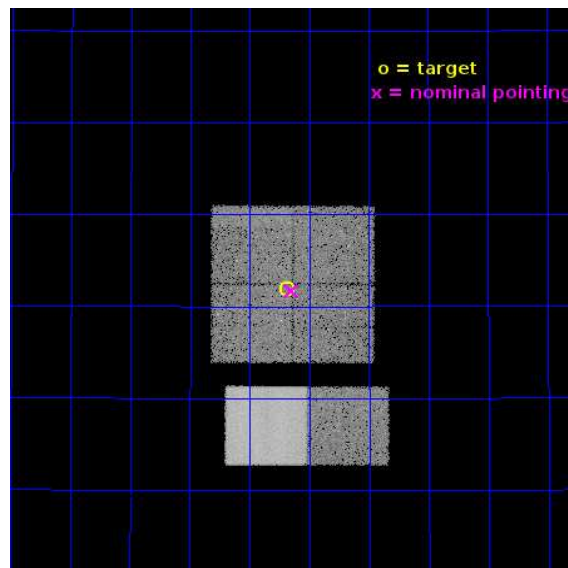
L2 Processing Date : May 7 2016

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

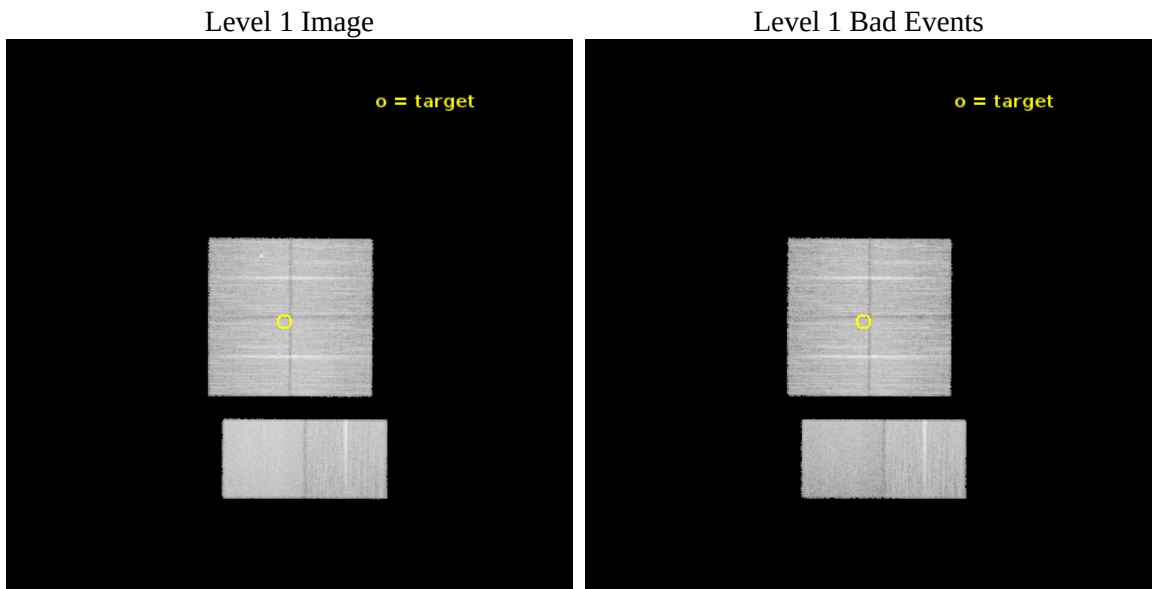
seq_num	901325	Sequence number
obs_id	18592	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field -- further pointings	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-12	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.92075	Observer's specified target RA [deg]
dec_targ	33.69775	Observer's specified target Dec [deg]
ra_nom	216.91269349606	Nominal RA [deg]
dec_nom	33.695244551286	Nominal Dec [deg]
roll_nom	180.21312229651	Nominal Roll [deg]
revision	1	Processing version of data
ontime	24374.318262577	Sum of GTIs [s]
livetime	24065.675968284	Livetime [s]
ontime0	24380.800363302	Sum of GTIs [s]
ontime1	24377.559302807	Sum of GTIs [s]
ontime2	24377.559332967	Sum of GTIs [s]
ontime3	24374.318262577	Sum of GTIs [s]
ontime6	24380.800363302	Sum of GTIs [s]
ontime7	24380.800363302	Sum of GTIs [s]
l2events	153818	Number of level 2 events



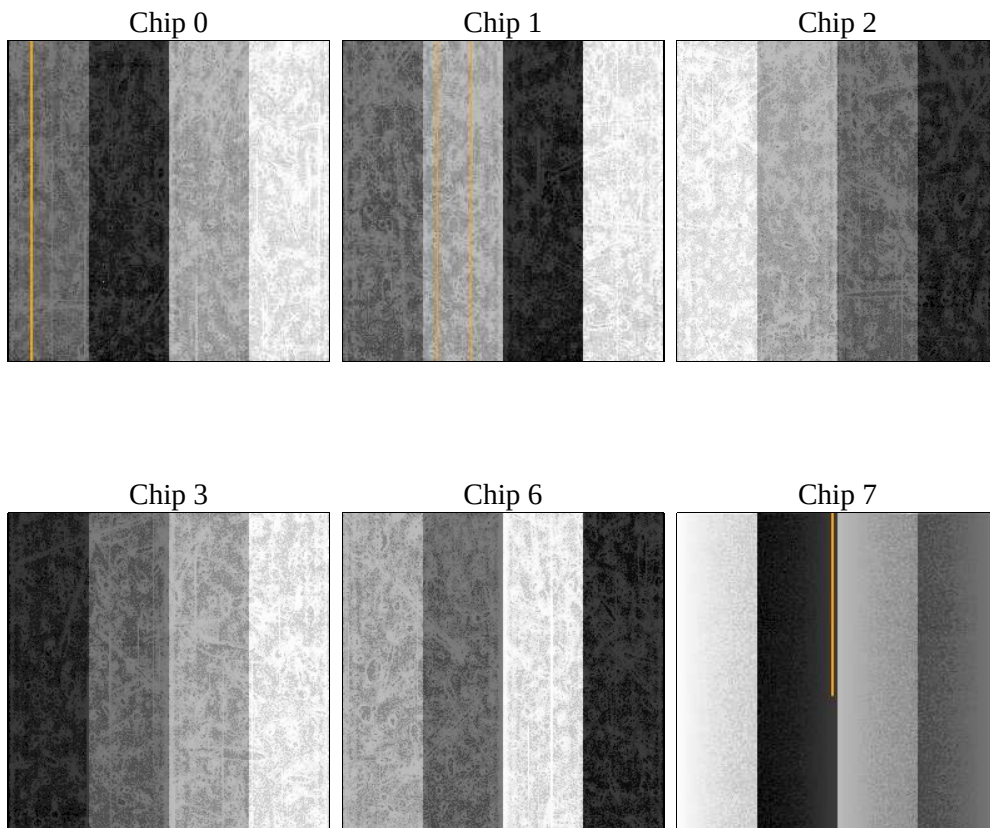
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	24419.569000	[s] Scheduled observation exposure time
ascdsver	10.4.3.1	Processing system revision	ontime	24374.318262577	Sum of GTIs [s]
caldsver	4.7.1	 	ontime0	24380.800363302	Sum of GTIs [s]
date	2016-05-07T04:04:09	Date and time of file creation	ontime1	24377.559302807	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	24377.559332967	Sum of GTIs [s]
			ontime3	24374.318262577	Sum of GTIs [s]
			ontime6	24380.800363302	Sum of GTIs [s]
			ontime7	24380.800363302	Sum of GTIs [s]
			l1events	948851	Number of level 1 events

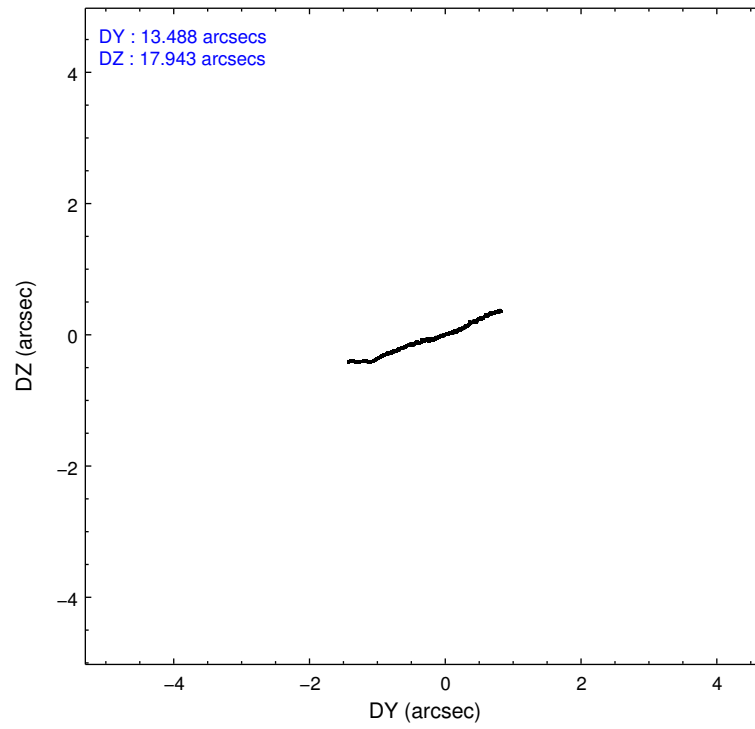
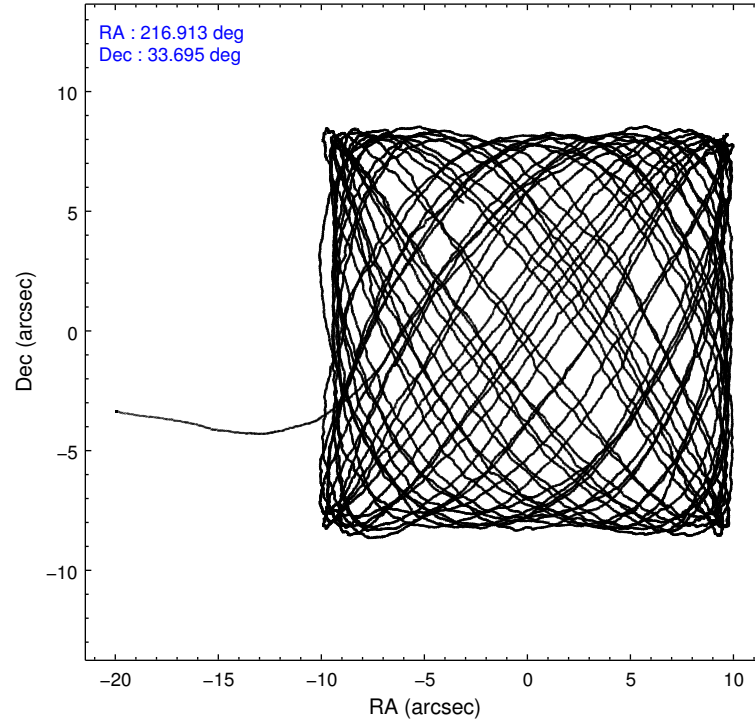
2.1.4 Events

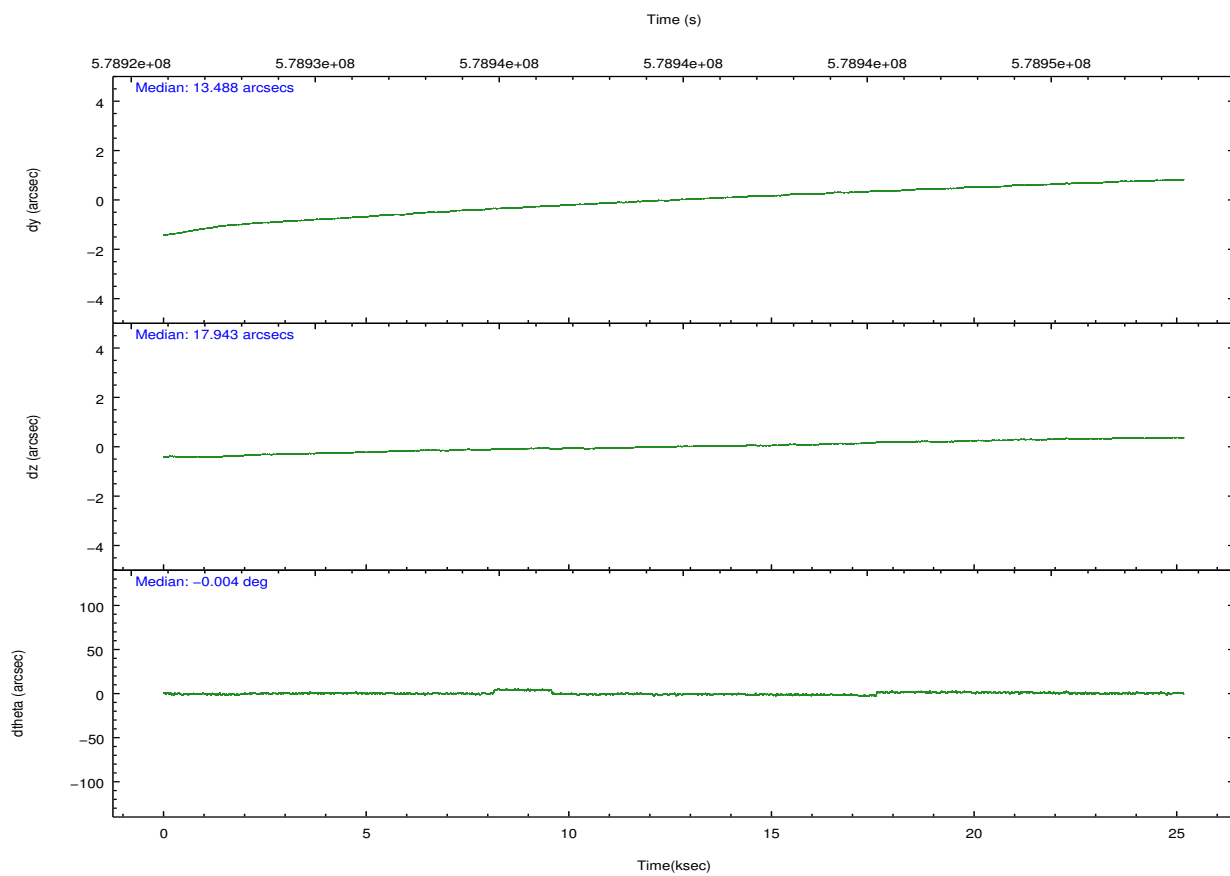
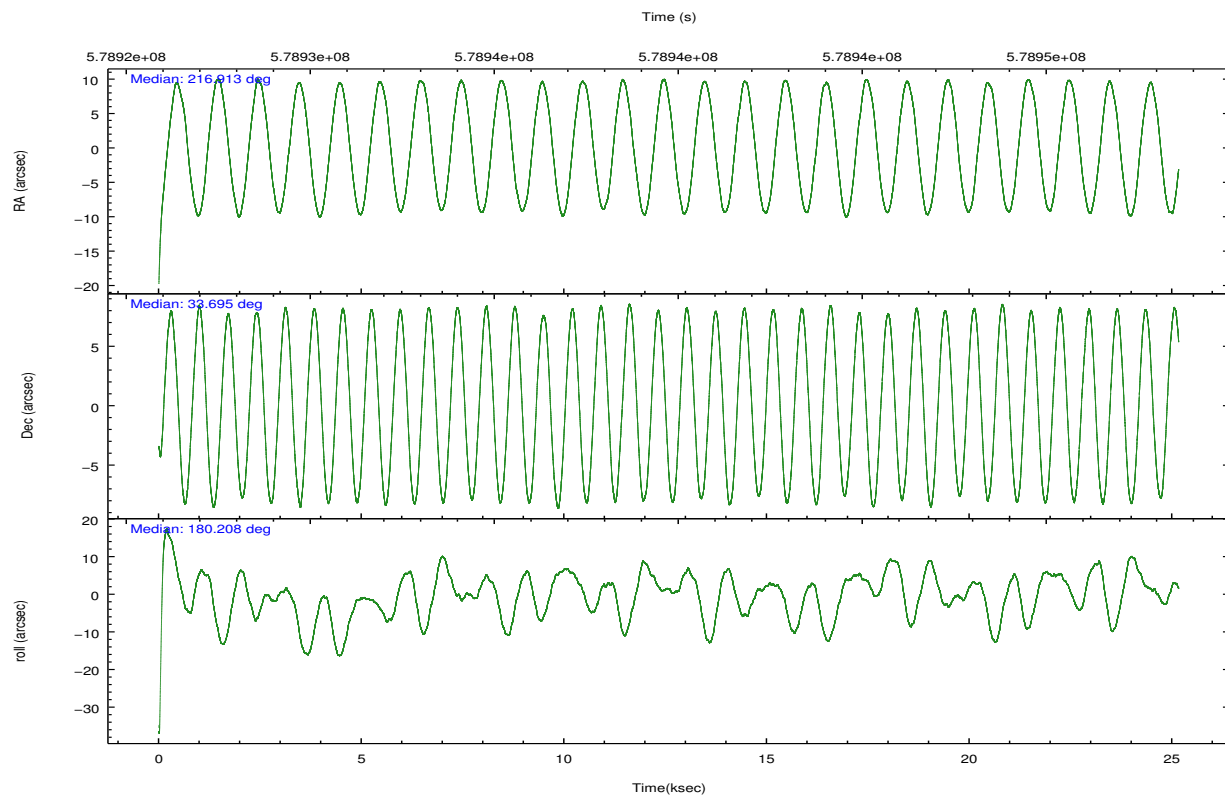
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	143021	144838	155358	150586	157469	197579	grade 0 events	5854	6769	5736	5892	5666	6992
rejected events	126057	125757	139462	134429	140014	113484		4%	4%	3%	3%	3%	3%
rejected %	88%	86%	89%	89%	88%	57%	grade 1 events	90	87	69	91	81	268
								0%	0%	0%	0%	0%	0%
							grade 2 events	4157	4516	3785	3544	4112	17768
								2%	3%	2%	2%	2%	8%
							grade 3 events	1788	1844	1593	1716	1720	6618
								1%	1%	1%	1%	1%	3%
							grade 4 events	1589	1821	1574	1616	1653	6258
								1%	1%	1%	1%	1%	3%
							grade 5 events	6499	6745	6231	7310	7475	19484
								4%	4%	4%	4%	4%	9%
							grade 6 events	3577	4132	3209	3393	4307	46470
								2%	2%	2%	2%	2%	23%
							grade 7 events	119467	118924	133161	127024	132455	93721
								83%	82%	85%	84%	84%	47%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	216.941322	216.9126934960594	CCD I2 on	Y	Y
[deg] Pointing Dec	33.709200	33.69524455128619	CCD I3 on	Y	Y
[deg] Pointing Roll	179.988581	180.213122296508	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	O2	Y
[mm] SIM translation stage pos	-233.592463	-233.5874344608287	CCD S3 on	O1	Y
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	578927919.184000	578926528.89838	CCD S5 on	N	N
Observation start date	2016-05-06T13:17:31	2016-05-06T12:55:28	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	578952339.184000	578952576.19987	On-chip summing requested	N	N
Observation end date	2016-05-06T20:04:31	2016-05-06T20:09:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



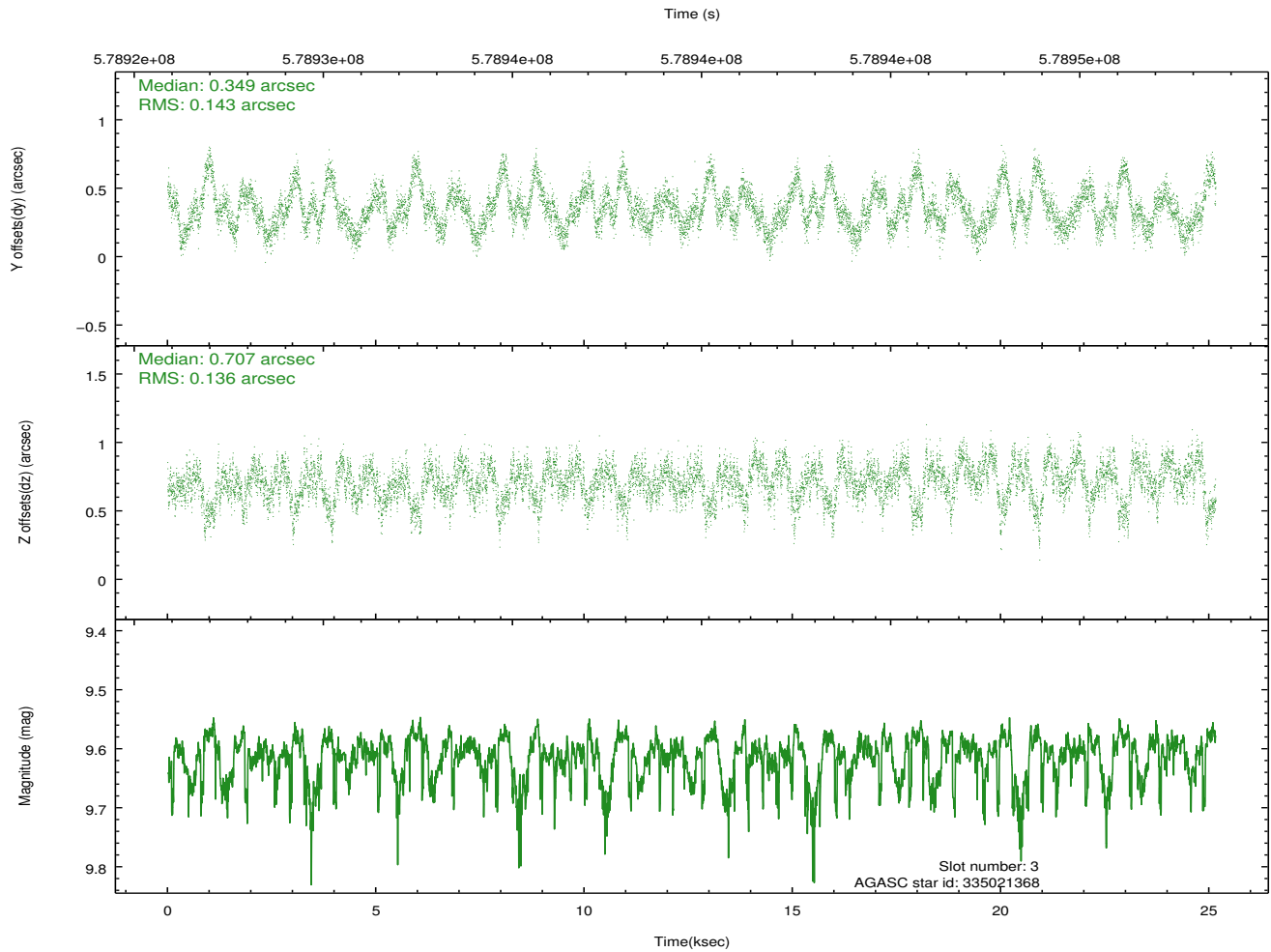
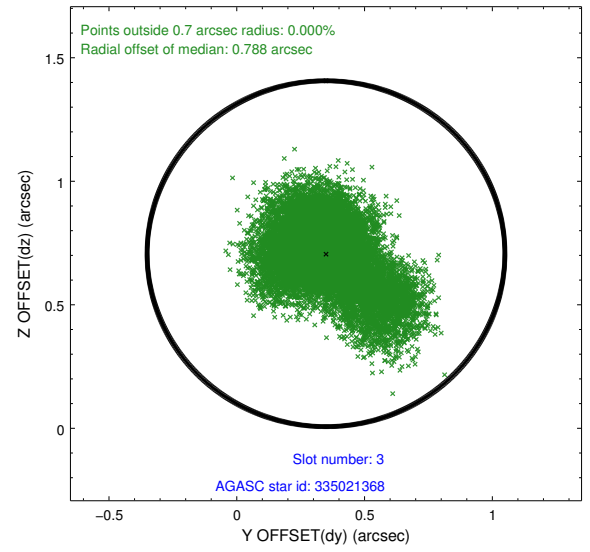
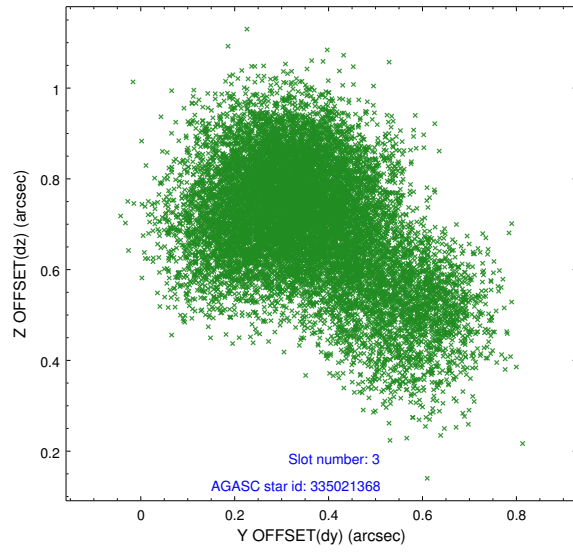


Slot Statistics

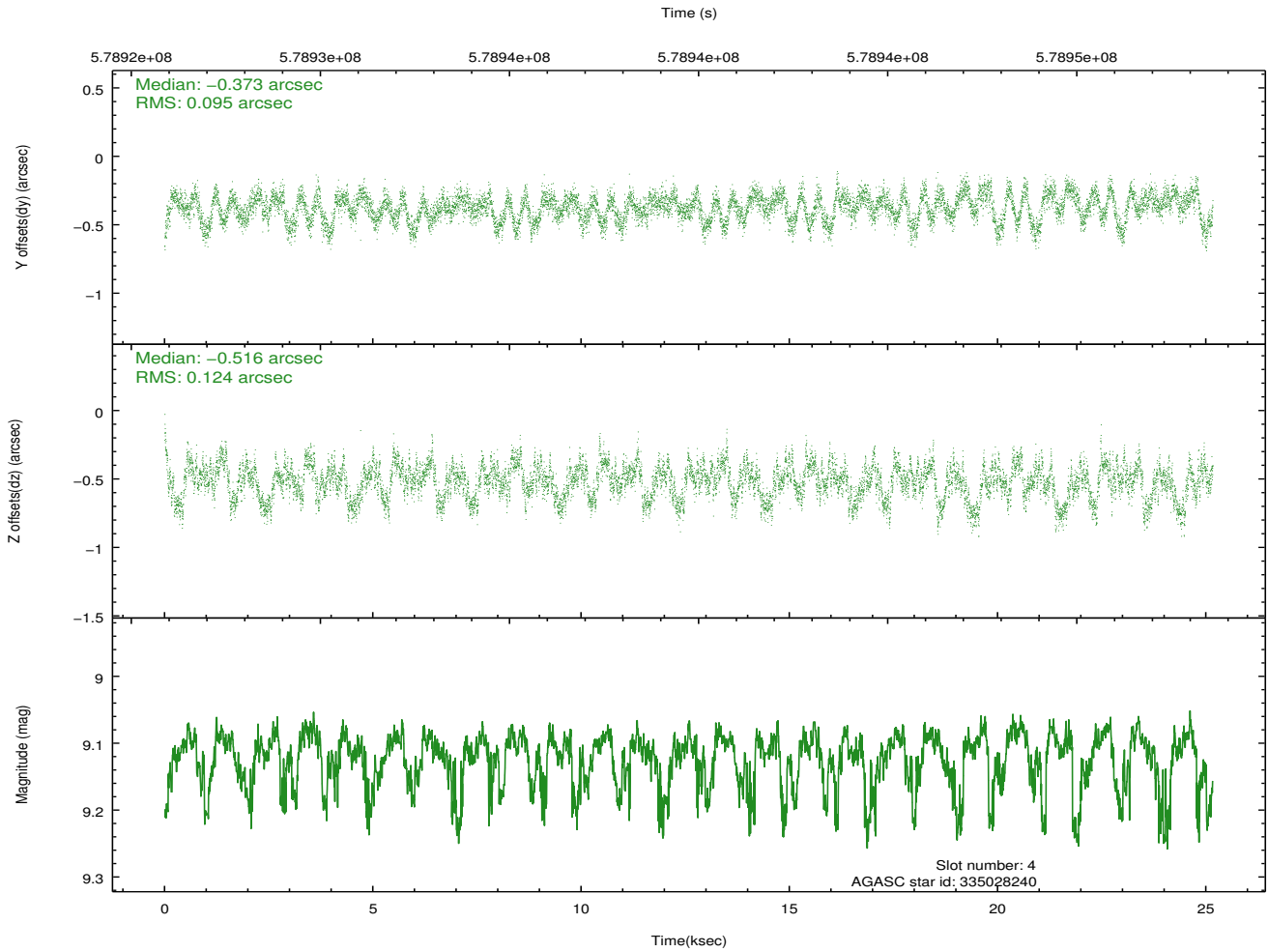
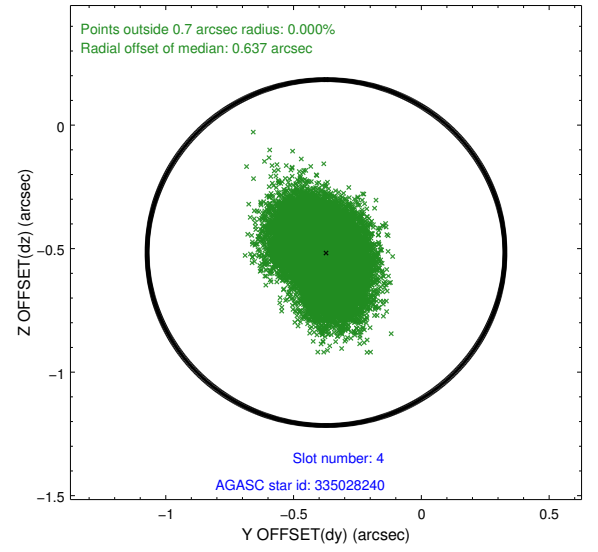
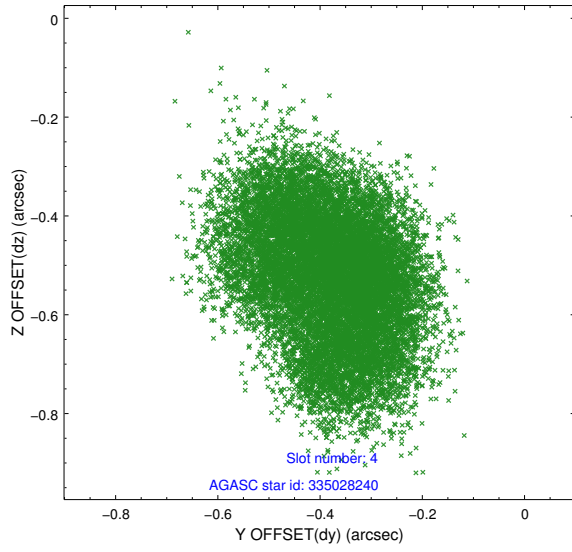
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.24	6137	-0.048	-0.072	0.050	0.068	0.000000	0.000000	926.08	-841.65
1	FID		ACIS-I-4	7.18	6137	0.360	0.097	0.039	0.050	0.000000	0.000000	2146.51	1058.29
2	FID		ACIS-I-5	7.25	6138	-0.410	0.045	0.020	0.028	0.000000	0.000000	-1822.21	1056.07
3	GUIDE	used	335021368	9.61	12263	0.349	0.707	0.204	0.358	217.529643	33.934817	-1756.09	-816.83
4	GUIDE	used	335028240	9.12	12267	-0.373	-0.516	0.170	0.262	216.746851	33.385009	585.23	1165.81
5	GUIDE	used	335028696	9.15	12267	0.859	0.403	0.117	0.185	217.260519	33.844112	-952.82	-486.71
6	GUIDE	used	335029808	9.04	12267	-0.491	-0.181	0.146	0.224	216.789548	33.180488	456.97	1902.99
7	GUIDE	used	335030152	9.68	12258	-0.347	-0.389	0.182	0.287	216.202154	33.091054	2229.10	2218.12

2.4 Star Slots

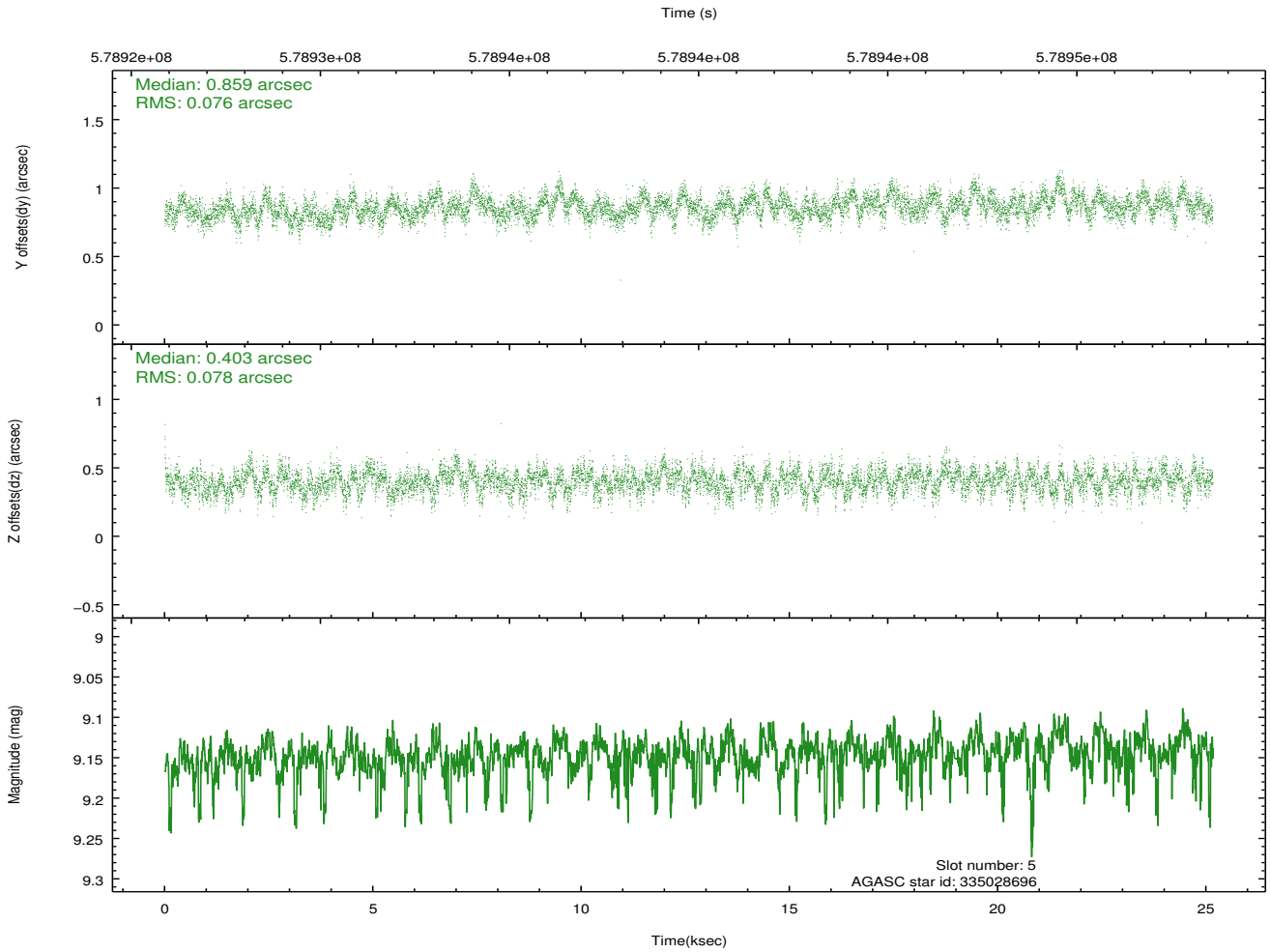
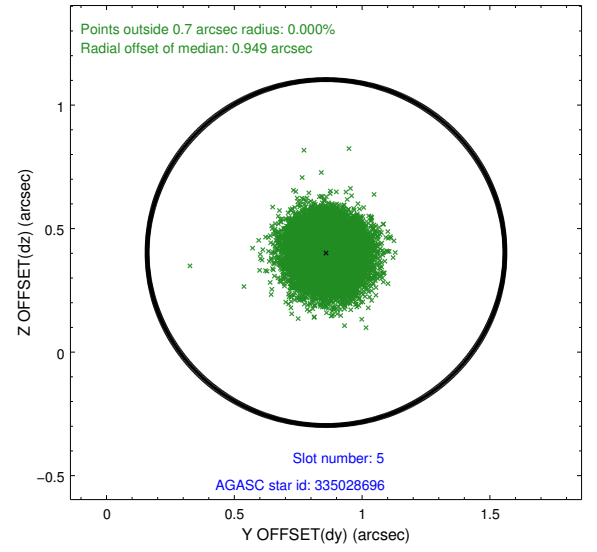
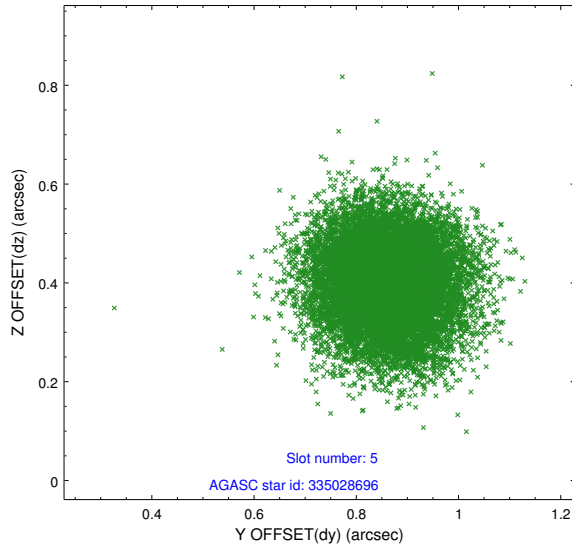
2.4.1 Slot 3



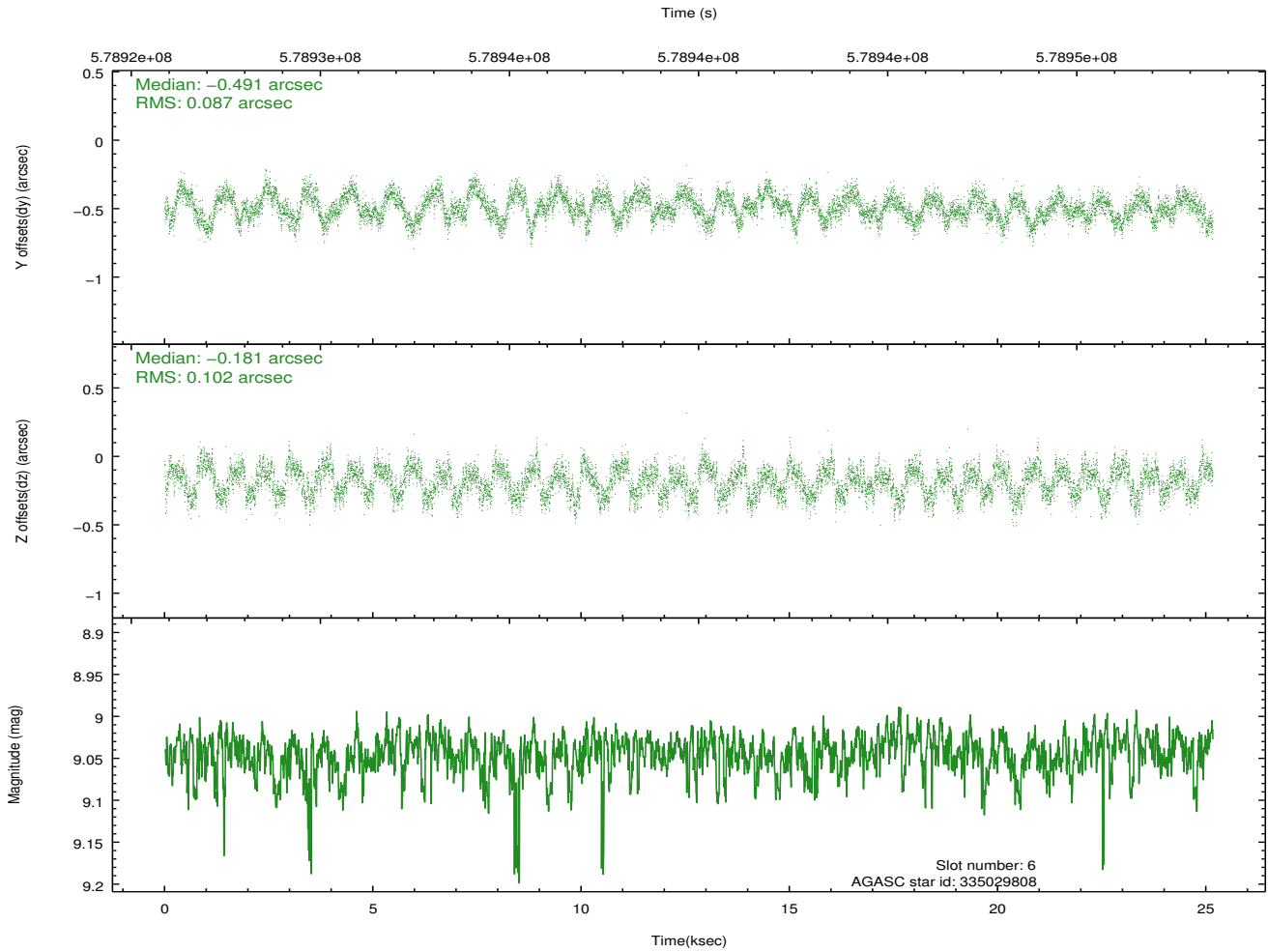
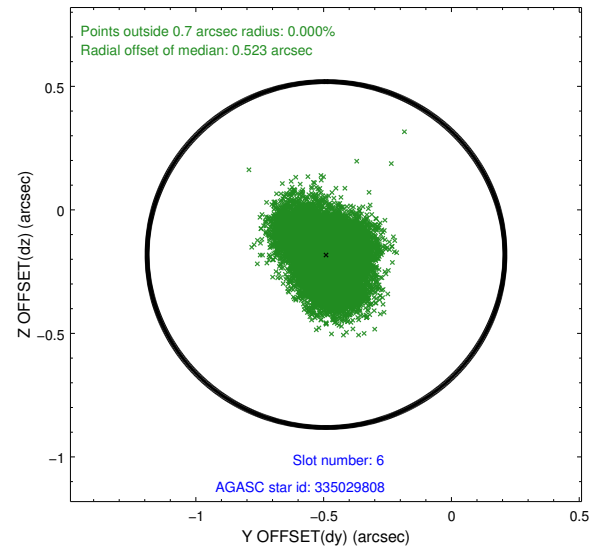
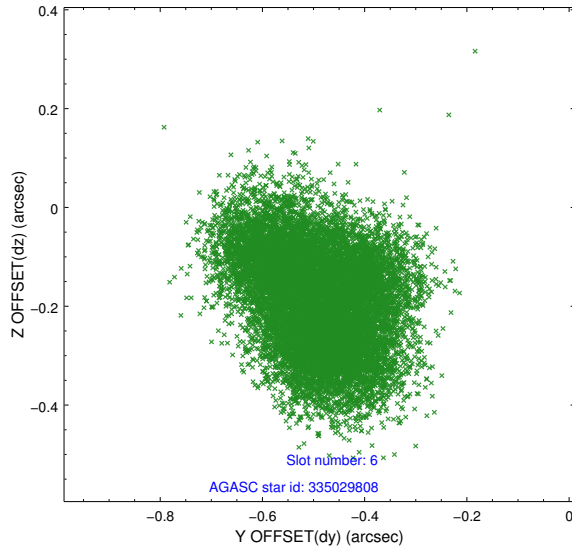
2.4.2 Slot 4



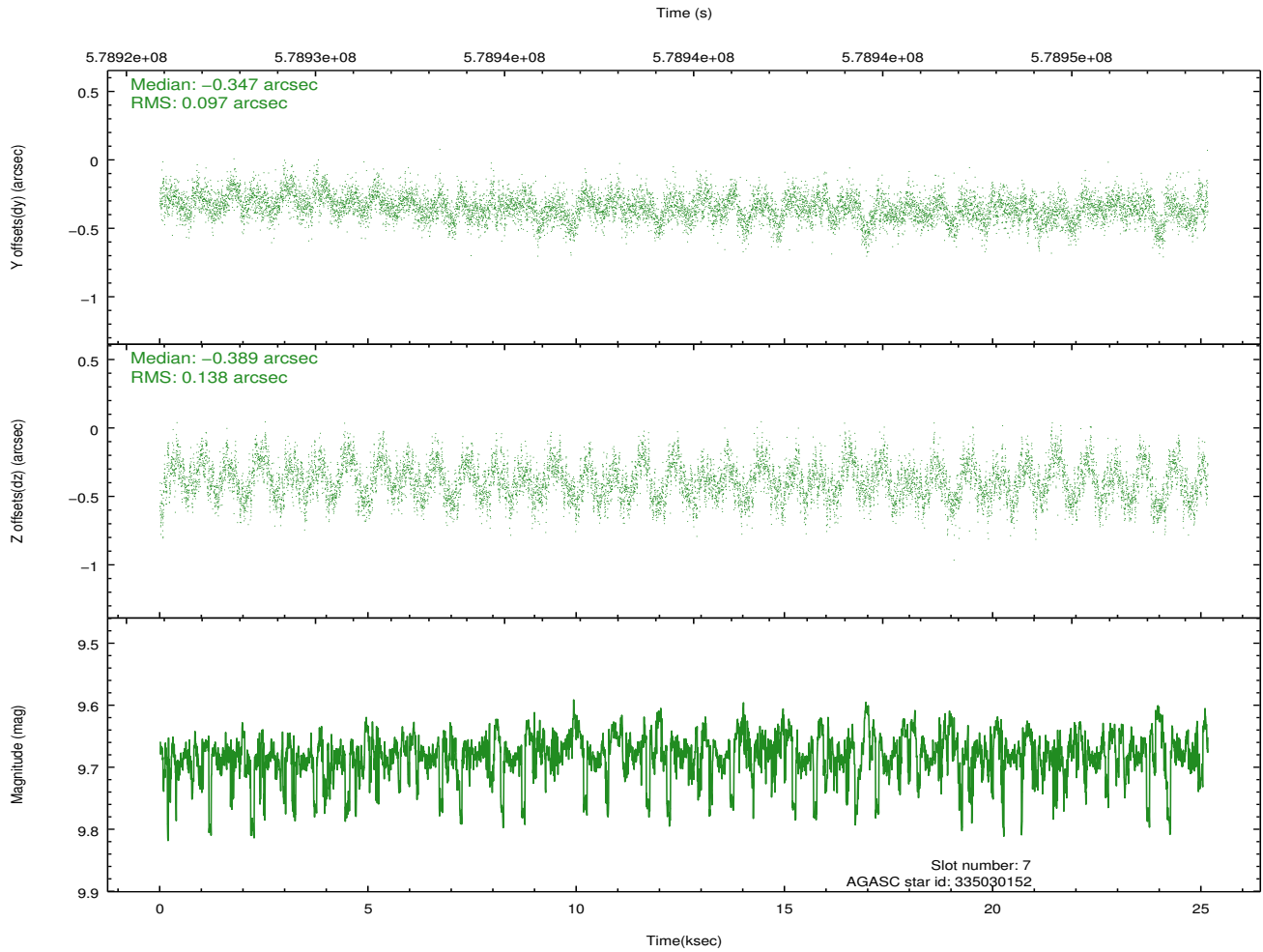
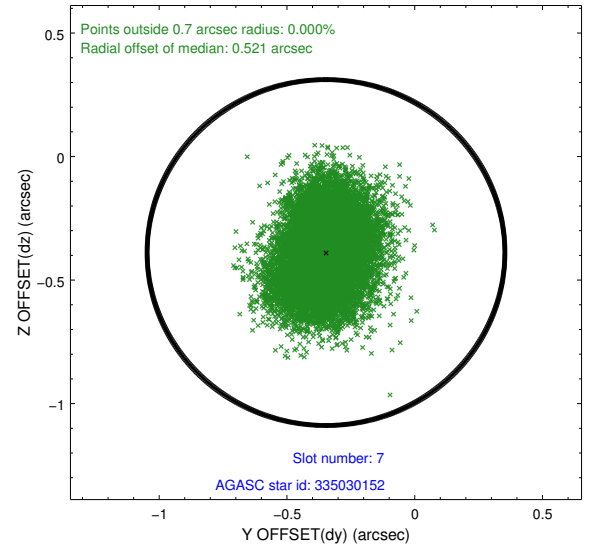
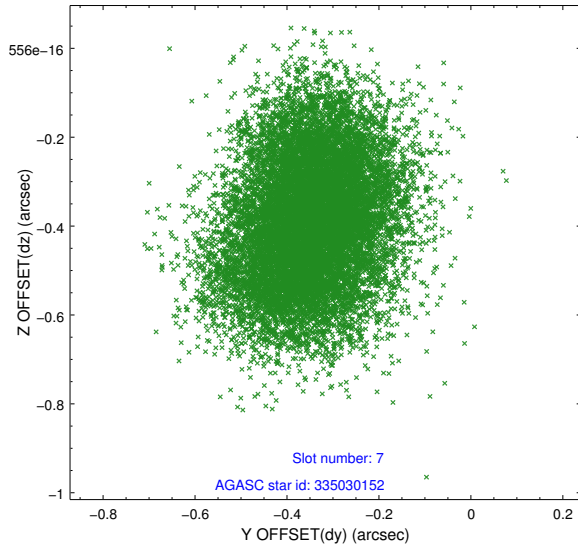
2.4.3 Slot 5



2.4.4 Slot 6

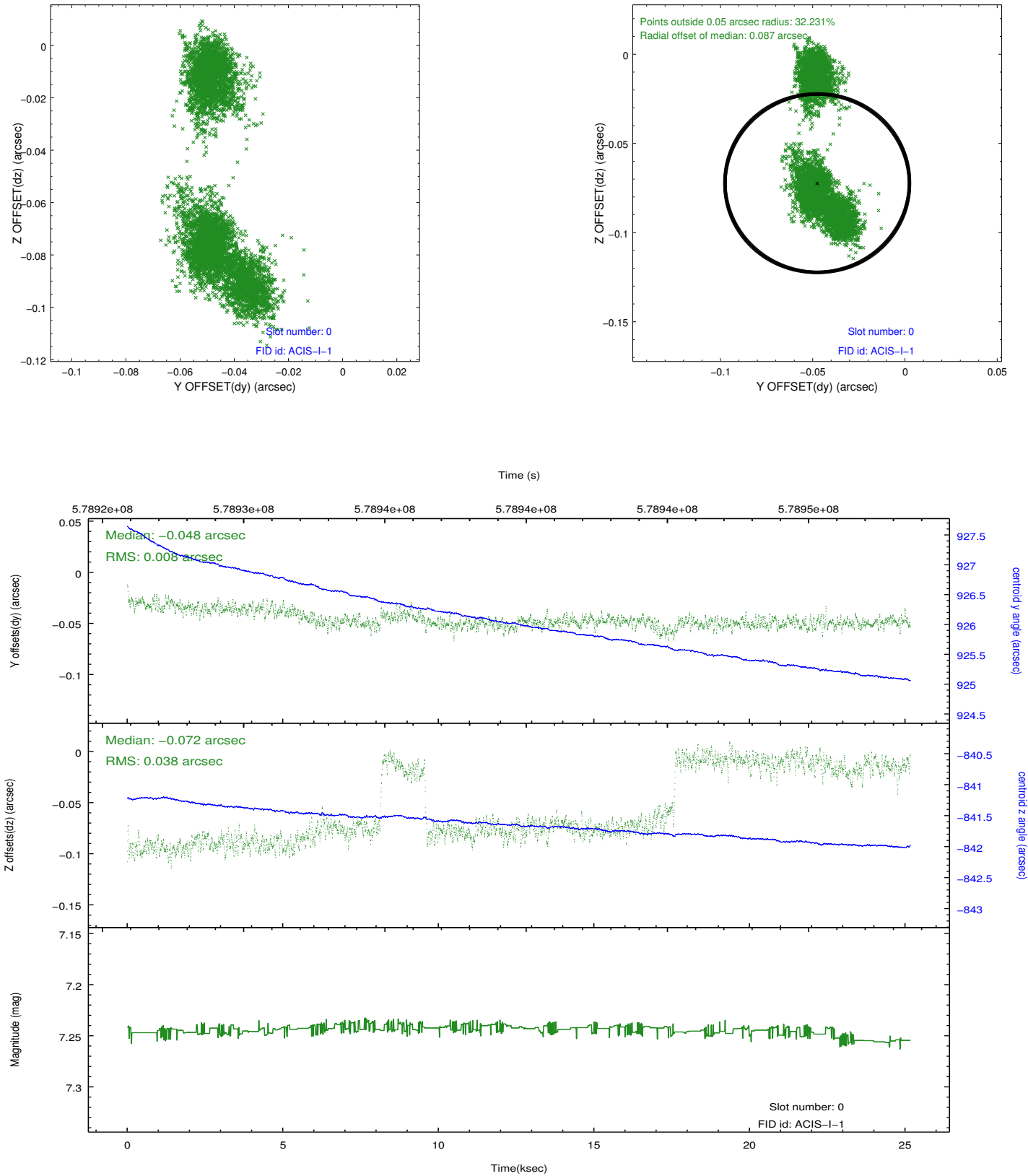


2.4.5 Slot 7

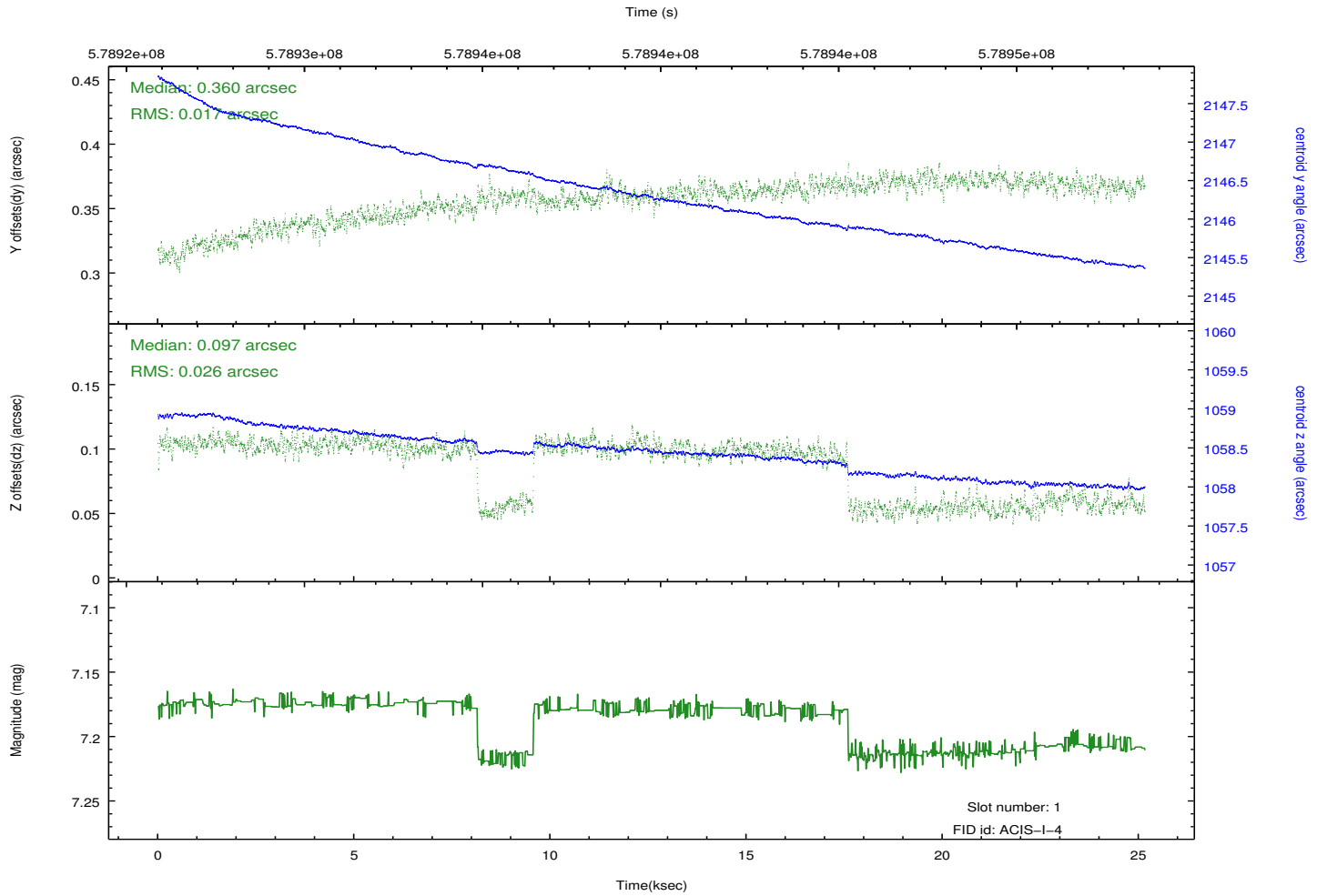
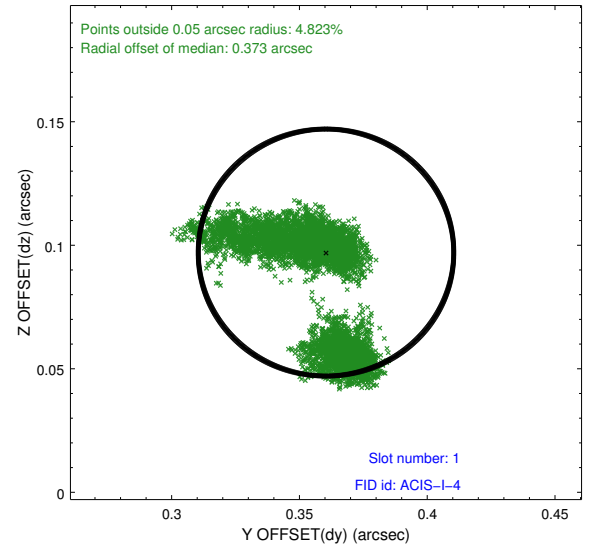
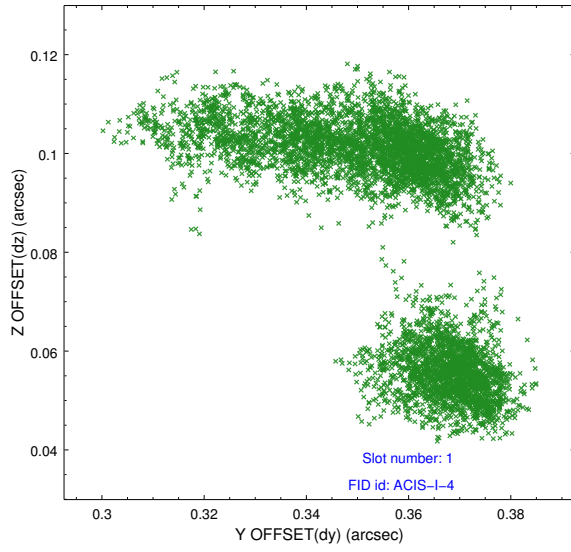


2.5 FID Slots

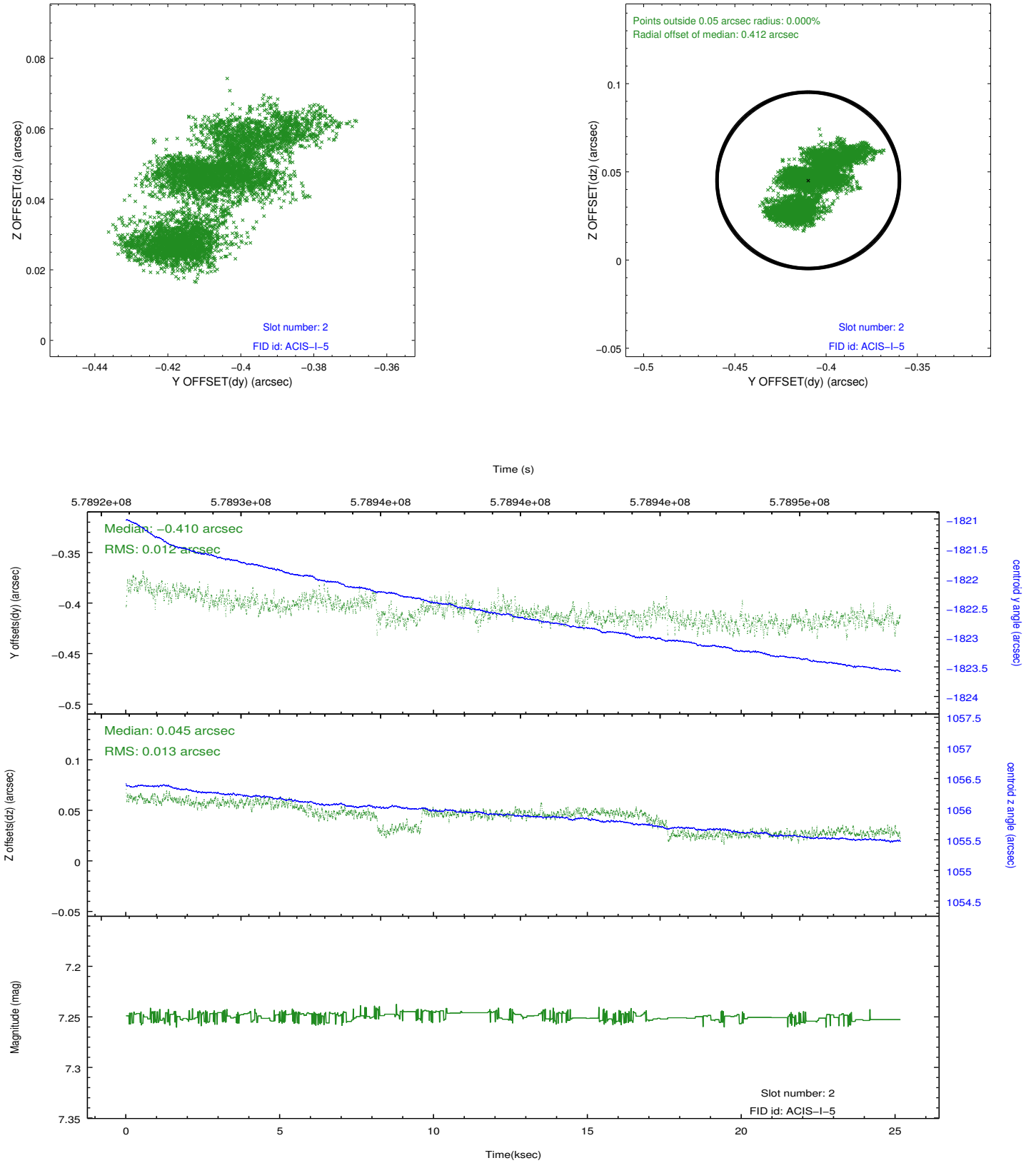
2.5.1 Slot 0



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)	2016.05.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.374318262577

A.2 Comments