

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 12222 - L2 Version 2
Chandra X-Ray Center

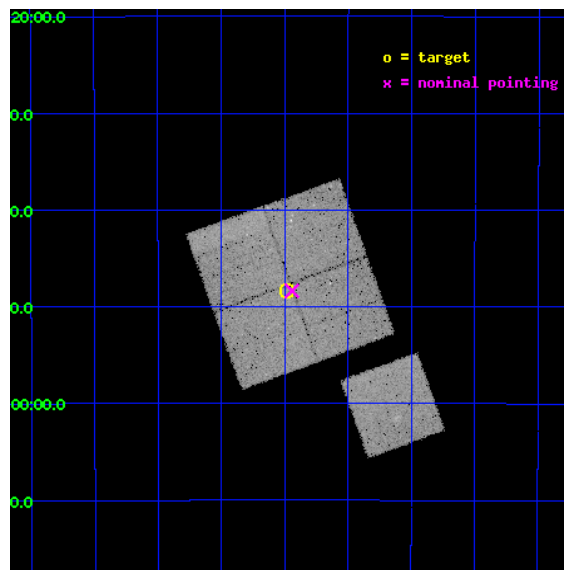
L2 Processing Date : Jun 28 2012

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

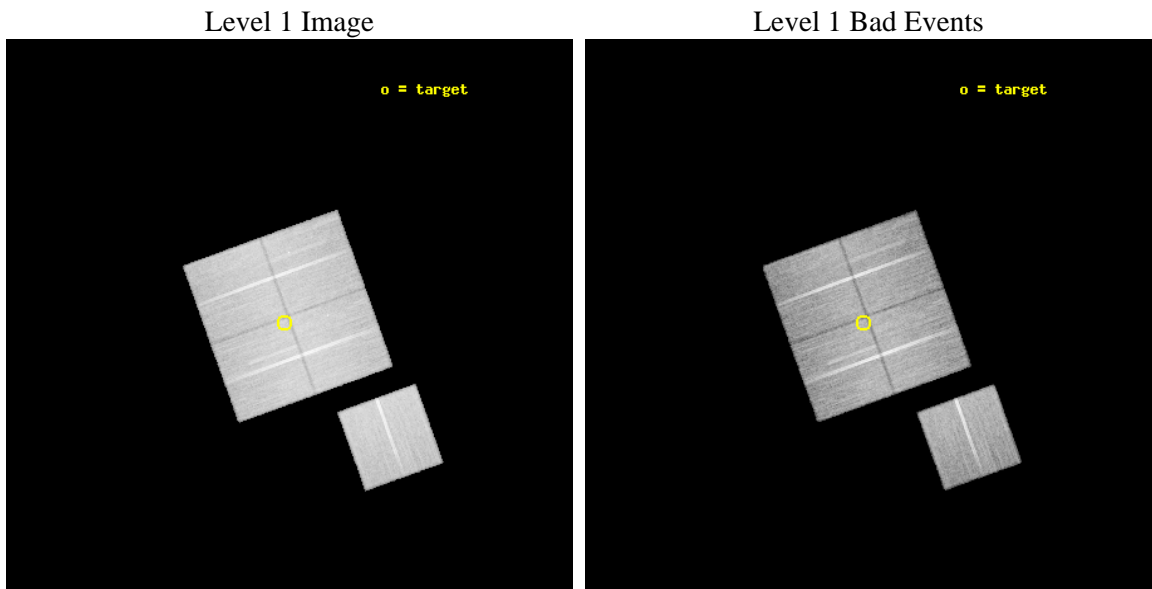
seq_num	900938	Sequence number
obs_id	12222	Observation id
title	The Chandra Deep Field-South Survey: An Ultradeep Chandra Legacy	P
observer	Dr. Harvey Tananbaum	Principal investigator
object	Chandra Deep Field-South	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	53.12	Observer's specified target RA [deg]
dec_targ	-27.806389	Observer's specified target Dec [deg]
ra_nom	53.110869993158	Nominal RA [deg]
dec_nom	-27.806033262712	Nominal Dec [deg]
roll_nom	160.20442174001	Nominal Roll [deg]
revision	2	Processing version of data
ontime	31049.14622438	Sum of GTIs [s]
livetime	30643.466270909	Livetime [s]
ontime0	31042.741153717	Sum of GTIs [s]
ontime1	31045.923154116	Sum of GTIs [s]
ontime2	31042.823383152	Sum of GTIs [s]
ontime3	31049.14622438	Sum of GTIs [s]
ontime6	31045.841104031	Sum of GTIs [s]
l2events	106545	Number of level 2 events



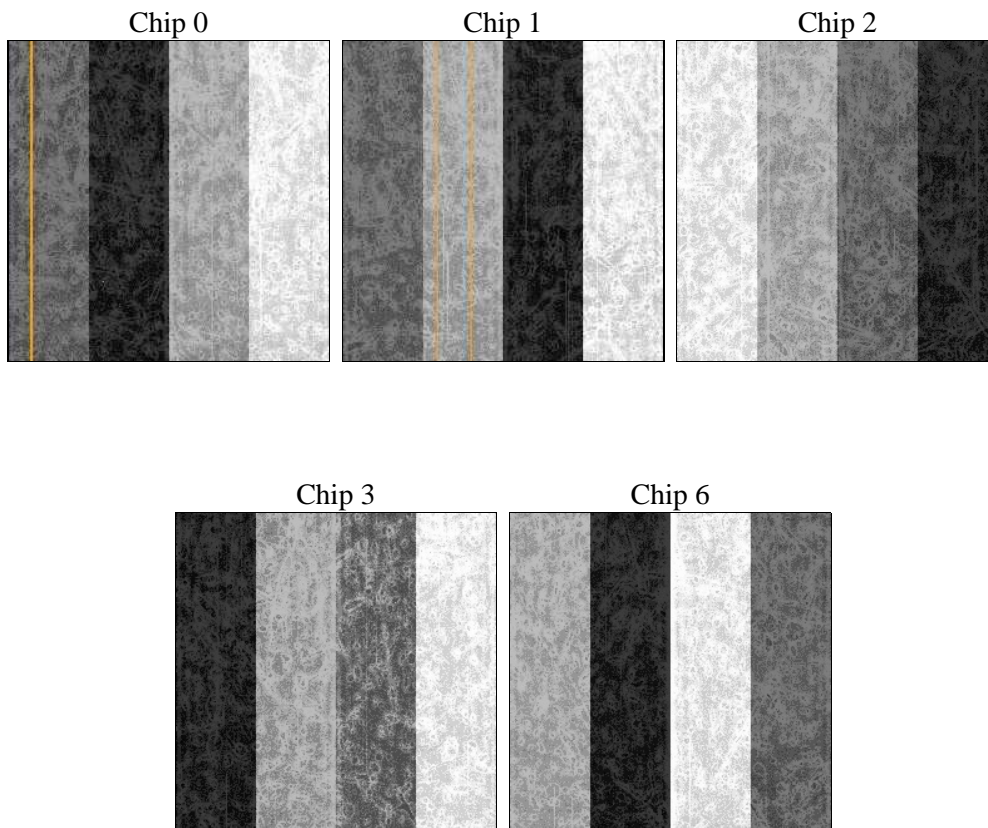
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	31000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	31049.14622438	Sum of GTIs [s]
caldbver	4.5.0	 	ontime0	31042.741153717	Sum of GTIs [s]
date	2012-06-28T04:41:59	Date and time of file creation	ontime1	31045.923154116	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	31042.823383152	Sum of GTIs [s]
			ontime3	31049.14622438	Sum of GTIs [s]
			ontime6	31045.841104031	Sum of GTIs [s]
			l1events	1134713	Number of level 1 events

2.1.4 Events

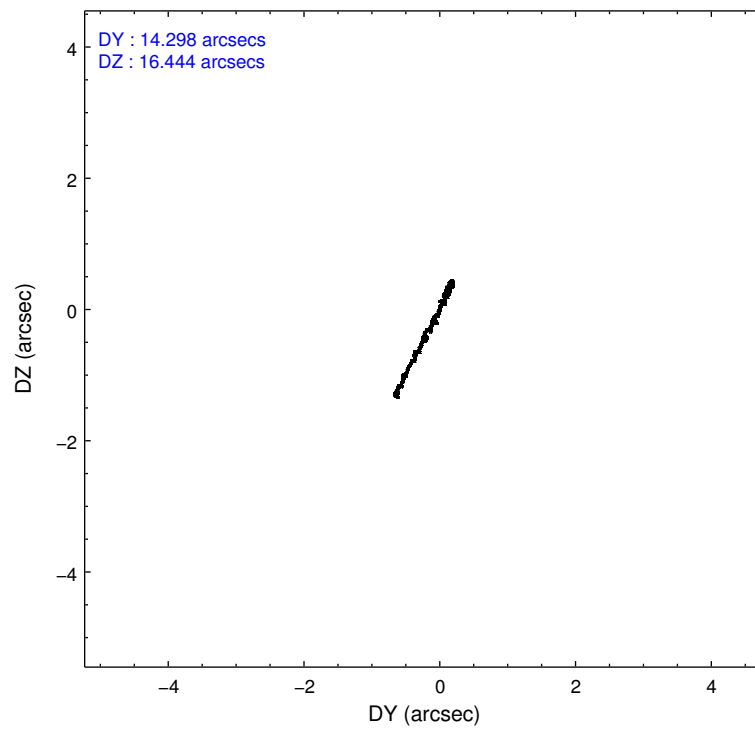
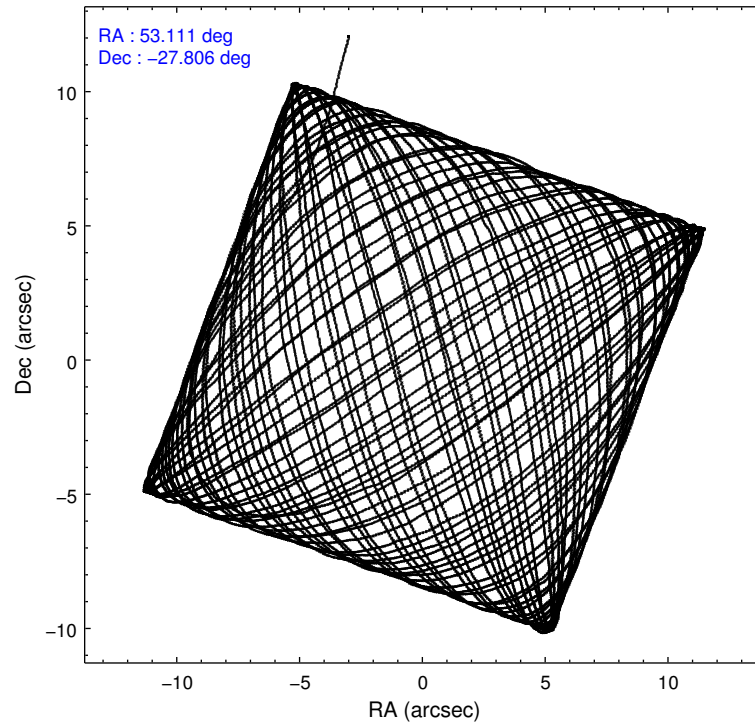
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	217292	215911	240293	231380	229837
rejected events	191315	187813	215917	207857	204268
rejected %	88%	86%	89%	89%	88%

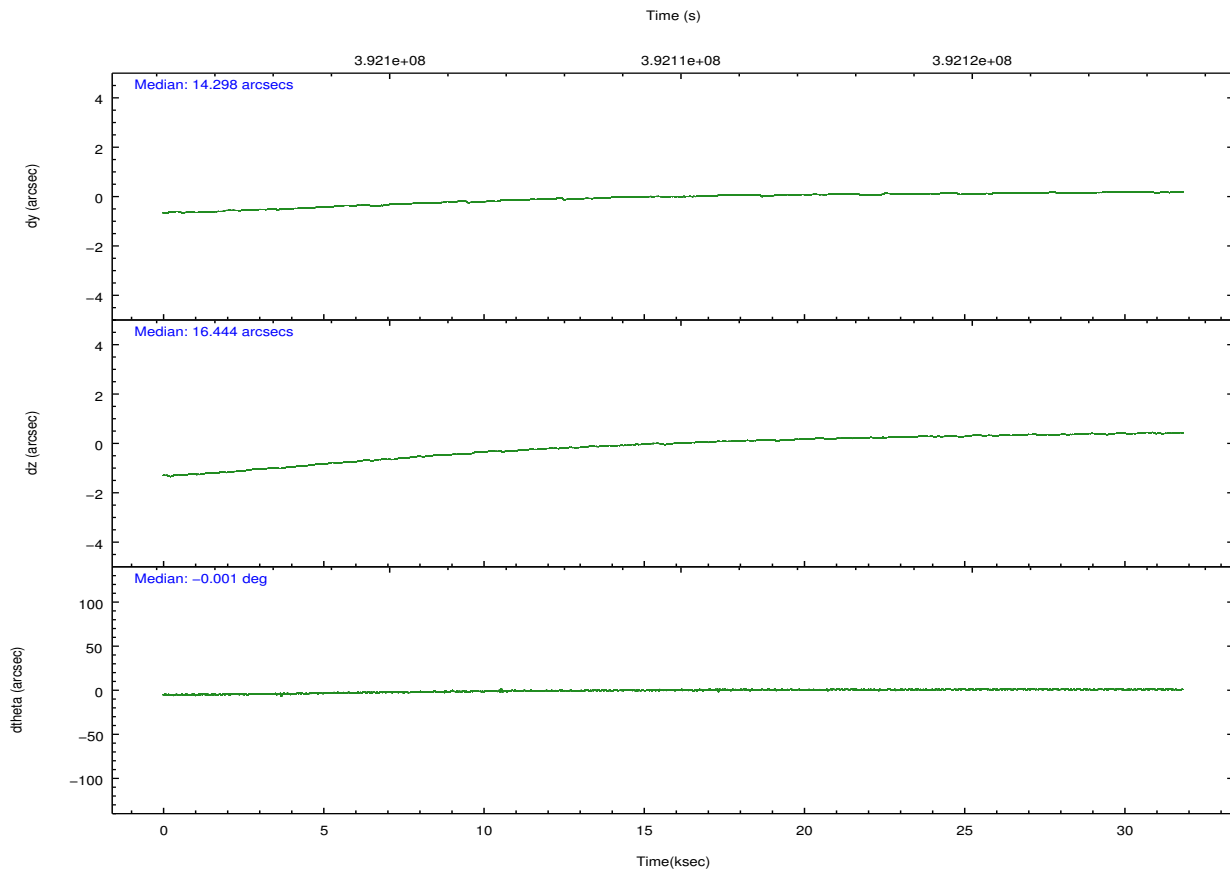
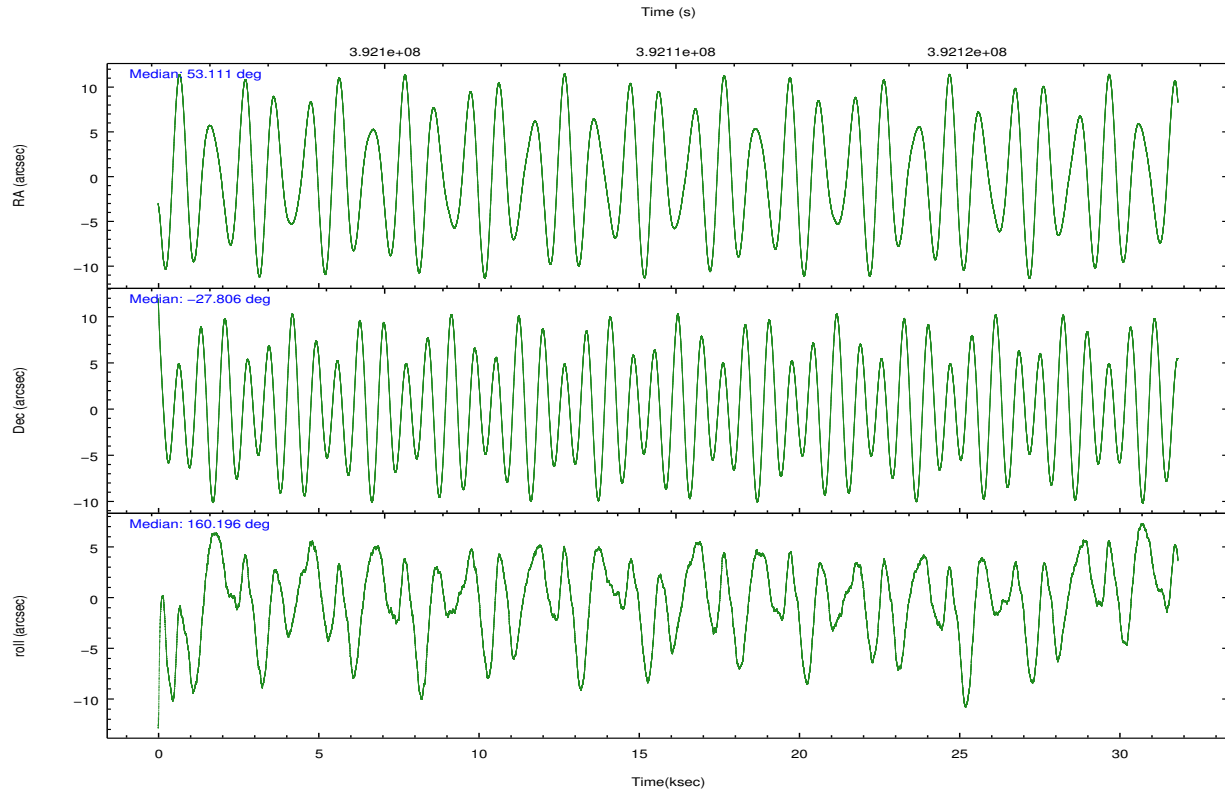
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	9039	9978	8741	8175	8761
	4%	4%	3%	3%	3%
grade 1 events	134	121	163	144	113
	0%	0%	0%	0%	0%
grade 2 events	6299	6489	6019	5366	5740
	2%	3%	2%	2%	2%
grade 3 events	2801	2964	2532	2592	2812
	1%	1%	1%	1%	1%
grade 4 events	2653	2922	2561	2573	2658
	1%	1%	1%	1%	1%
grade 5 events	9413	9940	8826	10719	10118
	4%	4%	3%	4%	4%
grade 6 events	5197	5749	4527	4820	5603
	2%	2%	1%	2%	2%
grade 7 events	181756	177748	206924	196991	194032
	83%	82%	86%	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	53.141450	53.11086999315847	CCD I2 on	Y	Y
[deg] Pointing Dec	-27.801055	-27.80603326271195	CCD I3 on	Y	Y
[deg] Pointing Roll	160.010008	160.2044217400067	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)	392094635.184000	392093243.492	CCD S5 on	N	N
Observation start date	2010-06-05T03:09:29	2010-06-05T02:47:23	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	392125635.184000	392126669.2562	On-chip summing requested	N	N
Observation end date	2010-06-05T11:46:09	2010-06-05T12:04:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



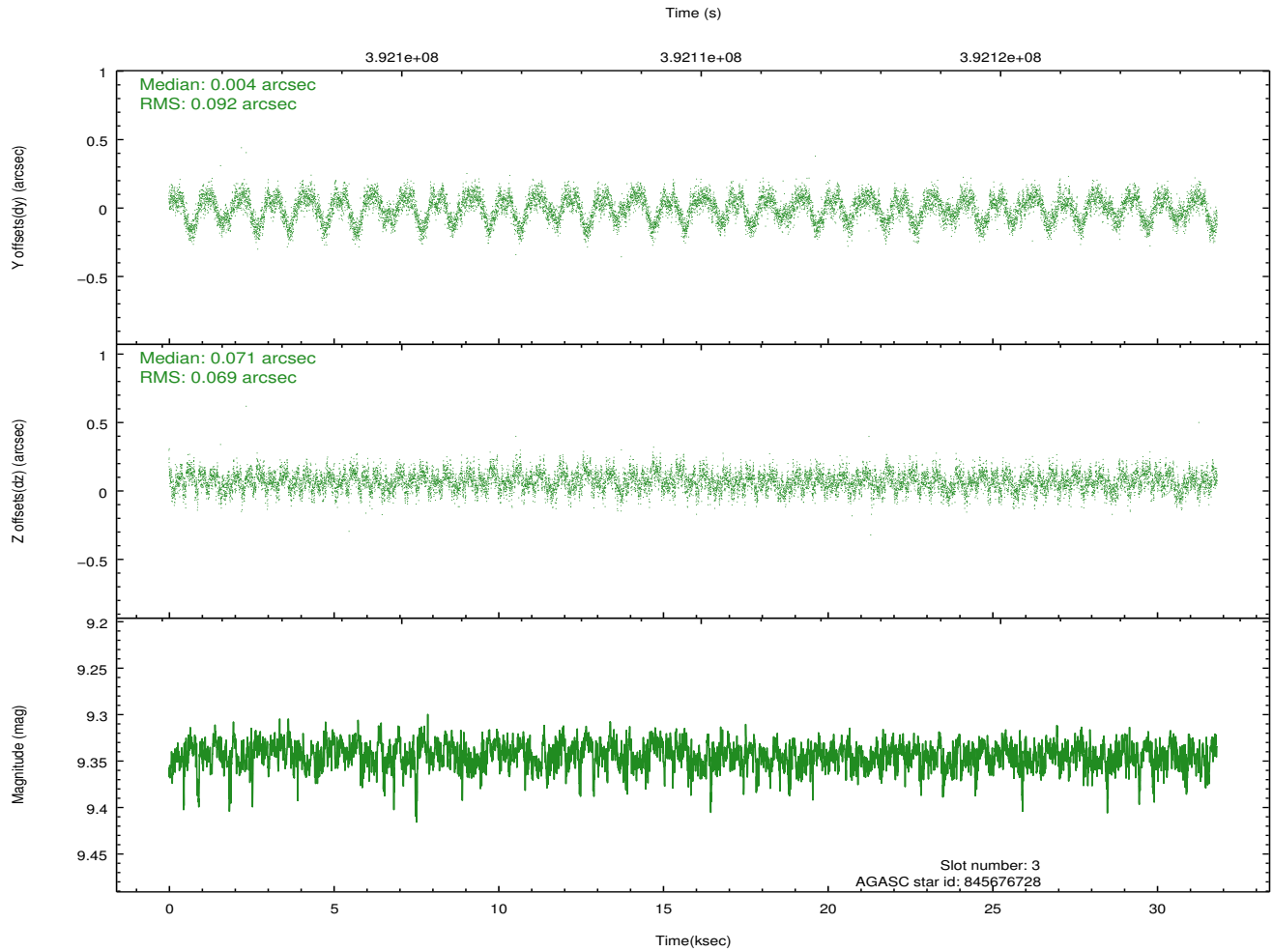
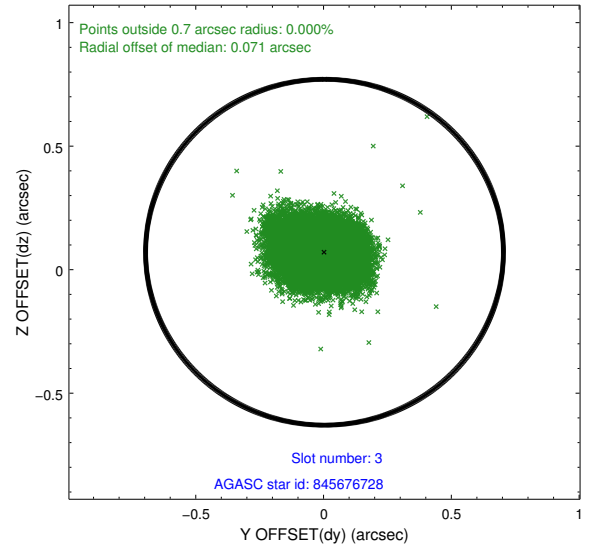
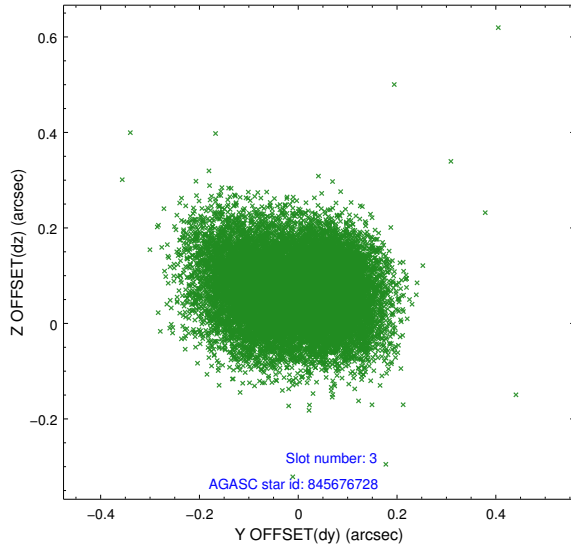


Slot Statistics

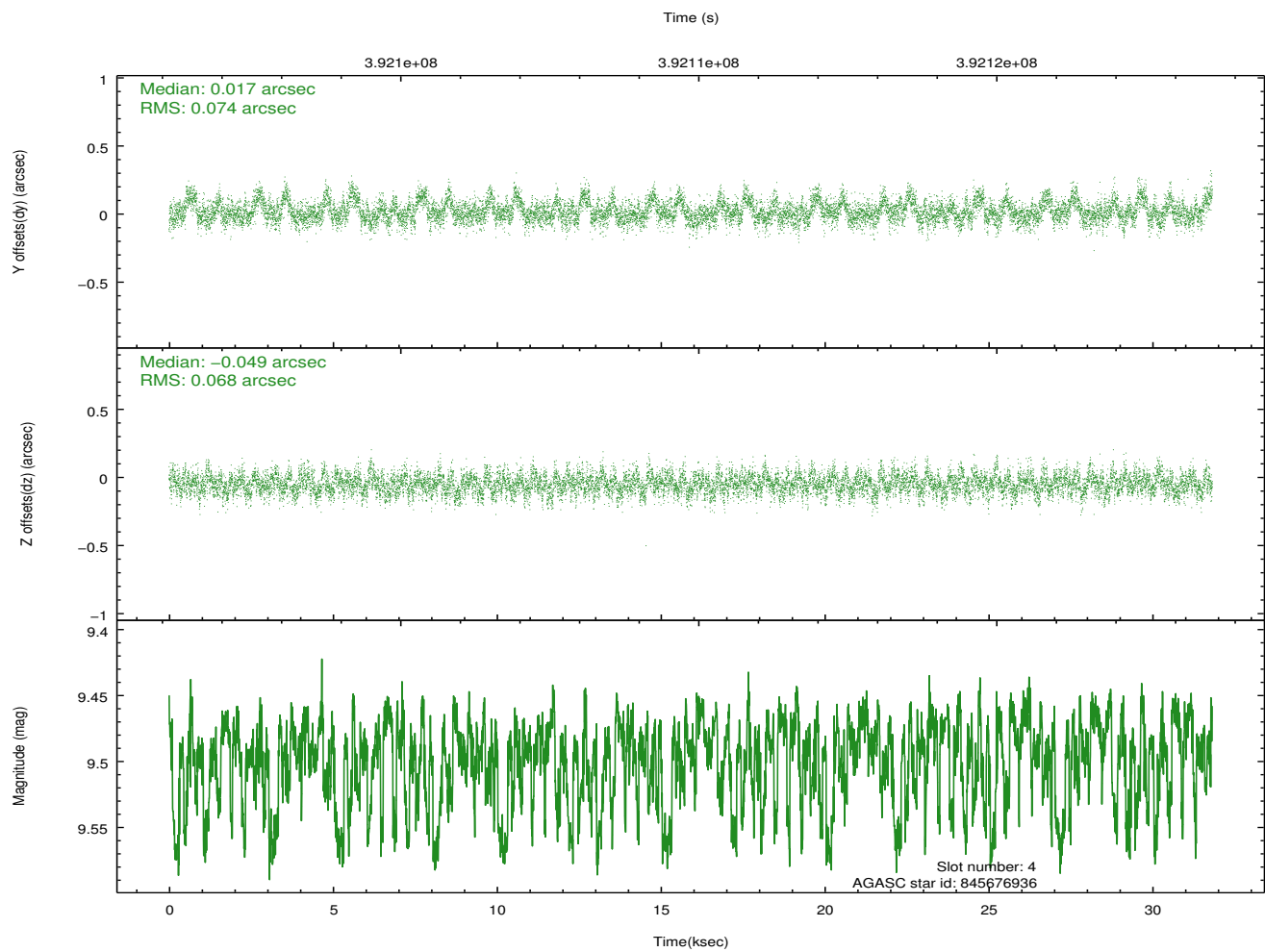
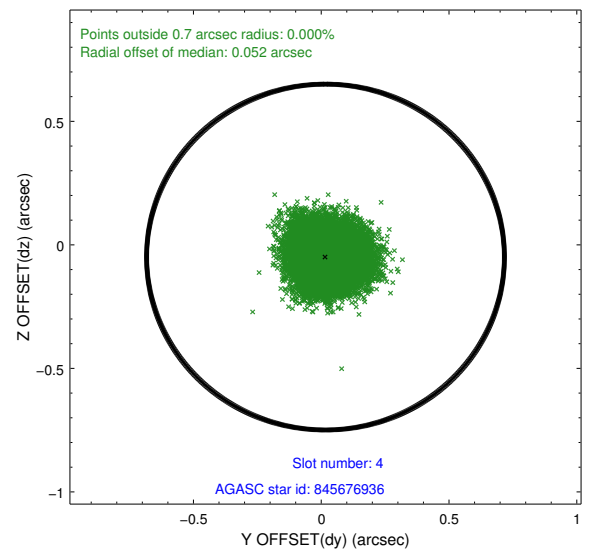
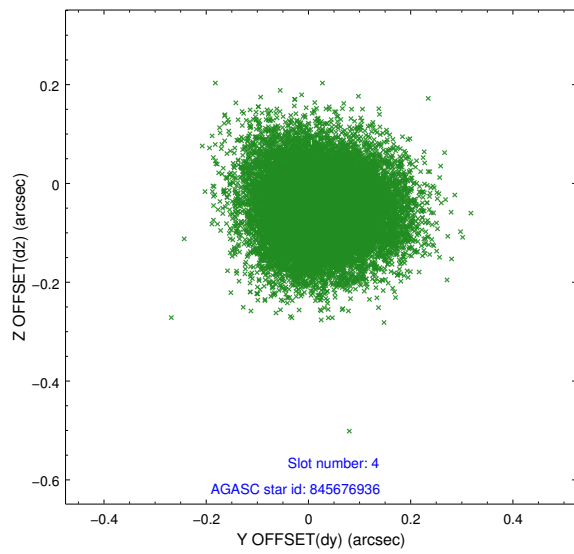
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	6.98	7762	0.058	-0.026	0.011	0.044	0.000000	0.000000	925.32	-839.94
1	FID	ACIS-I-5	6.97	7761	-0.206	0.062	0.011	0.028	0.000000	0.000000	-1822.99	1057.62
2	FID	ACIS-I-6	6.97	7762	0.059	0.035	0.012	0.021	0.000000	0.000000	390.83	1702.15
3	GUIDE	845676728	9.34	15500	0.004	0.071	0.123	0.196	52.877179	-27.664318	960.00	-173.11
4	GUIDE	845676936	9.50	15470	0.017	-0.049	0.108	0.173	52.843773	-27.880153	792.28	592.66
5	GUIDE	845807880	8.81	15516	0.100	-0.180	0.094	0.176	53.382027	-27.886093	-823.99	26.81
6	GUIDE	845816224	10.22	15350	-0.093	-0.142	0.152	0.261	53.578992	-28.631005	-2321.97	2337.46
7	GUIDE	845417688	9.96	15469	-0.027	0.297	0.157	0.254	54.025245	-27.354040	-2108.73	-2468.43

2.4 Star Slots

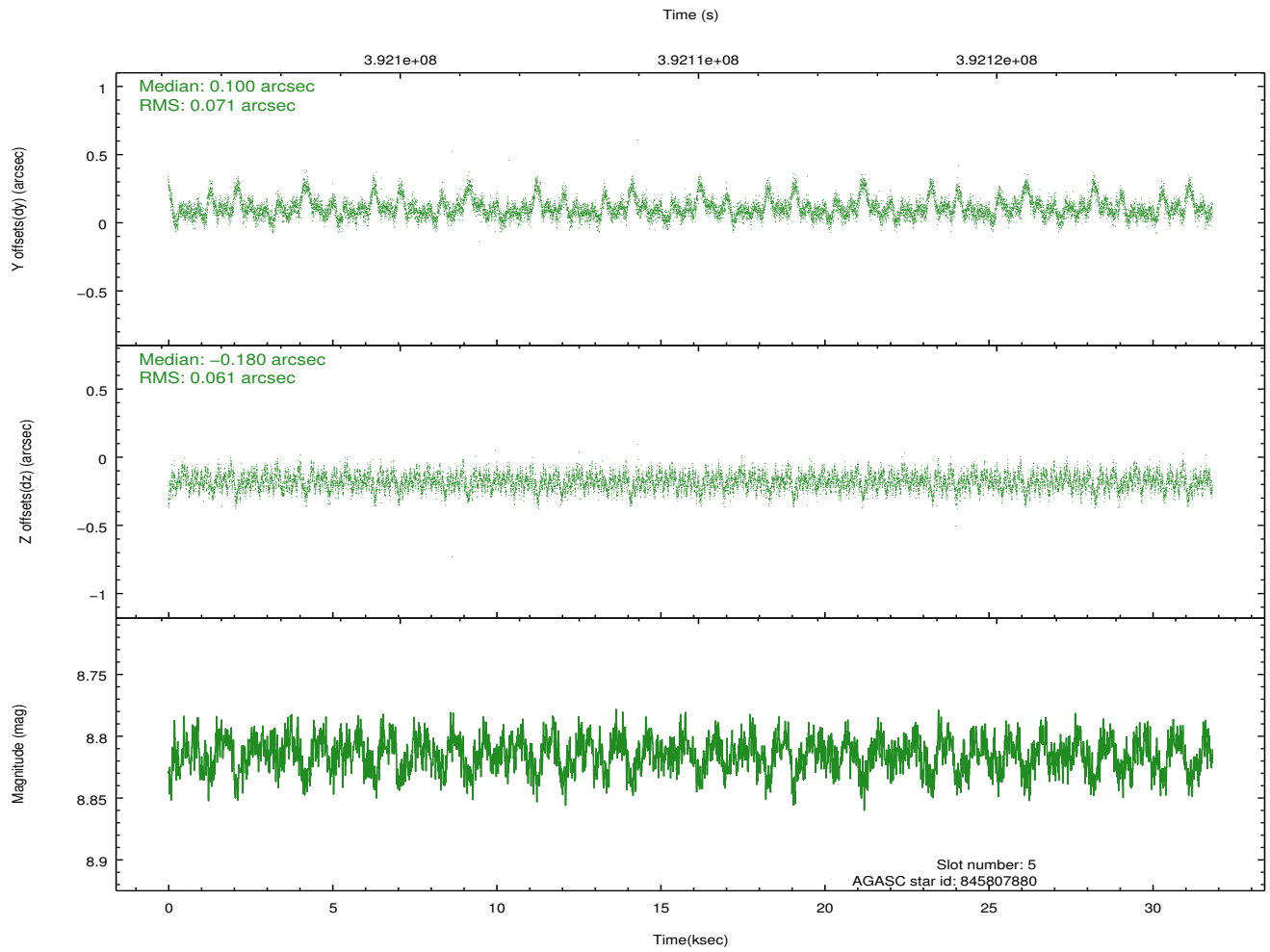
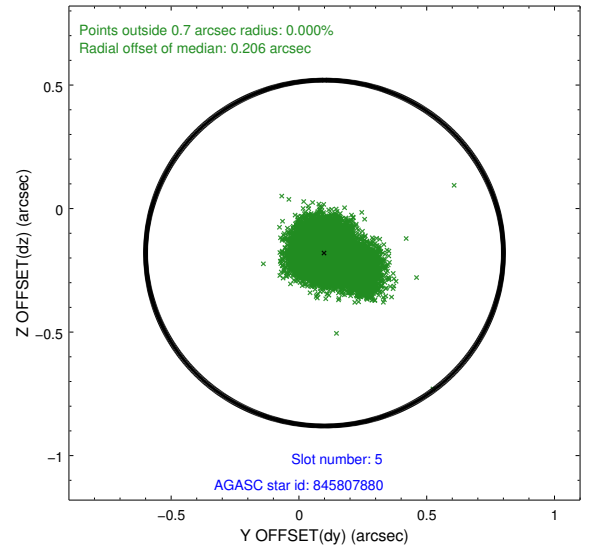
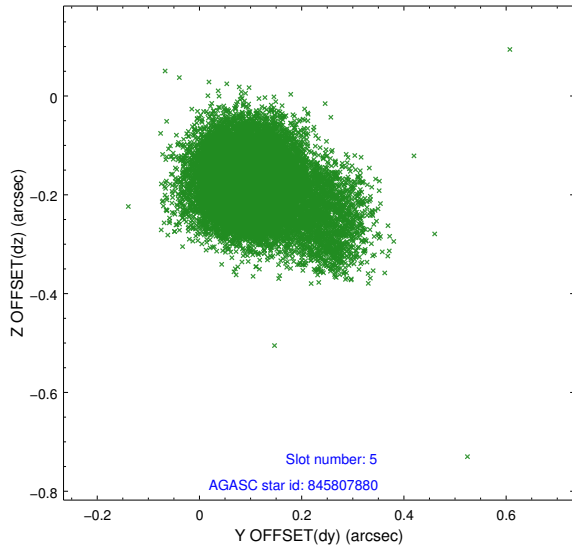
2.4.1 Slot 3



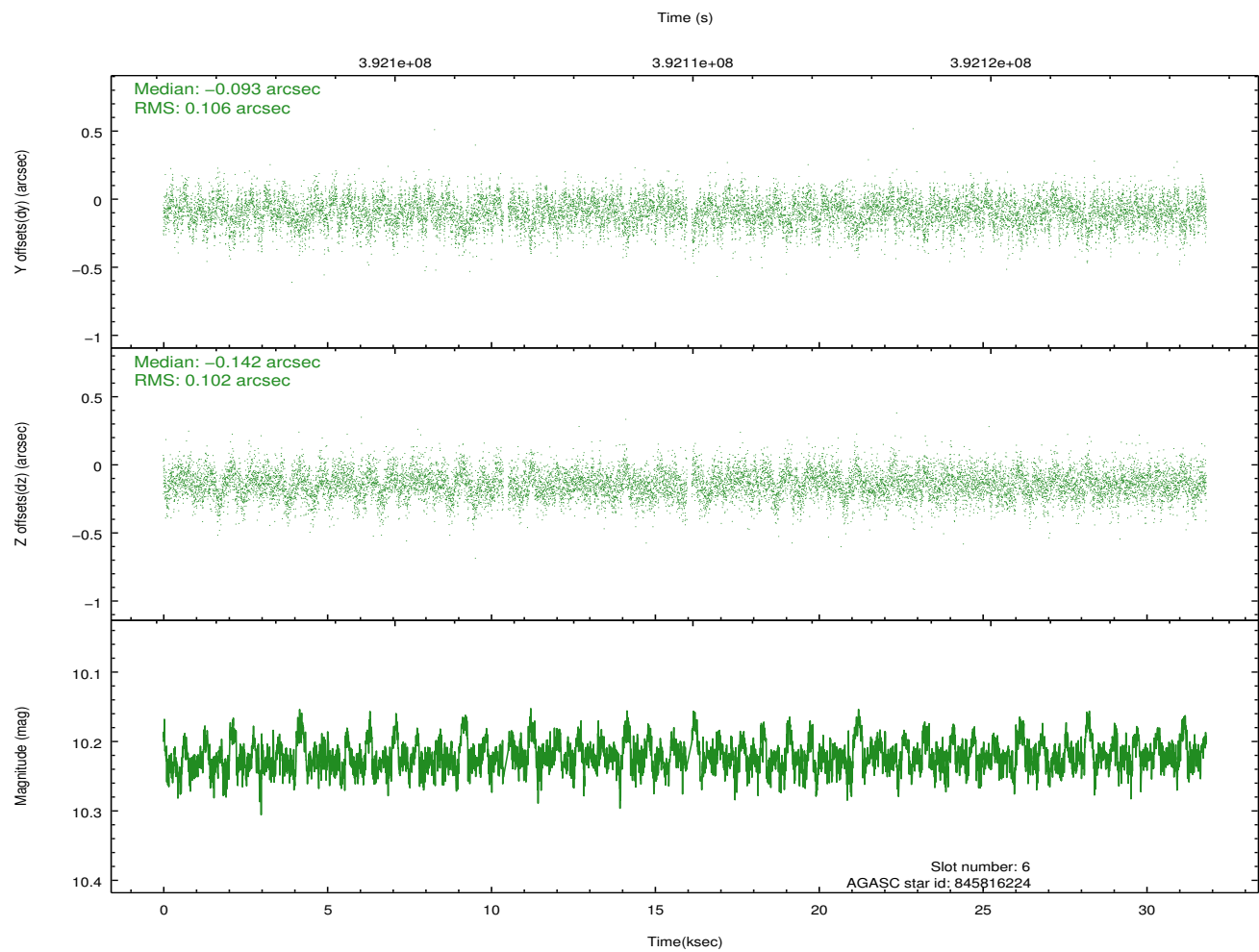
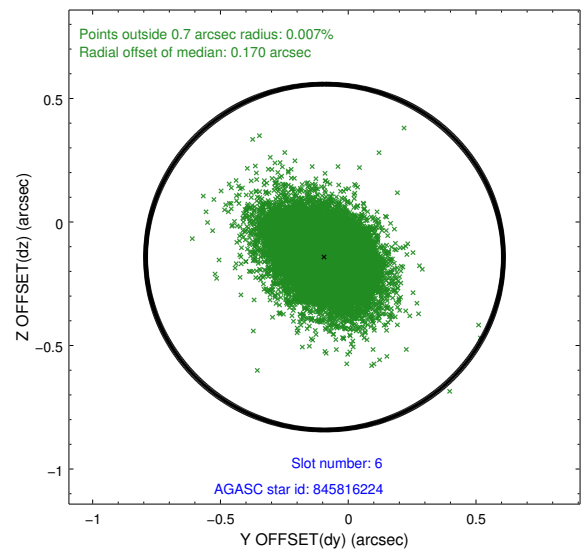
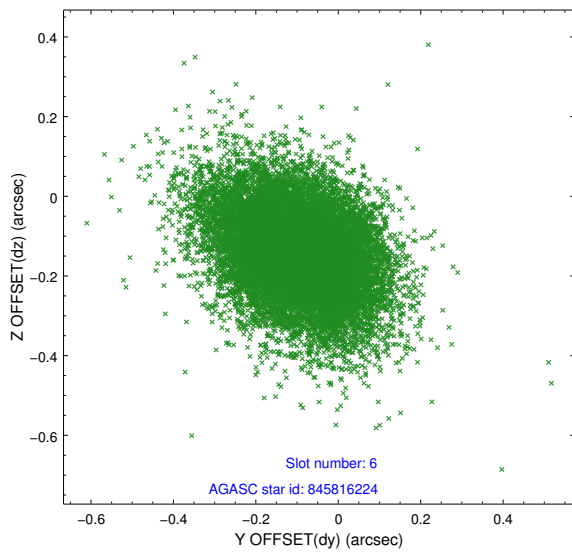
2.4.2 Slot 4



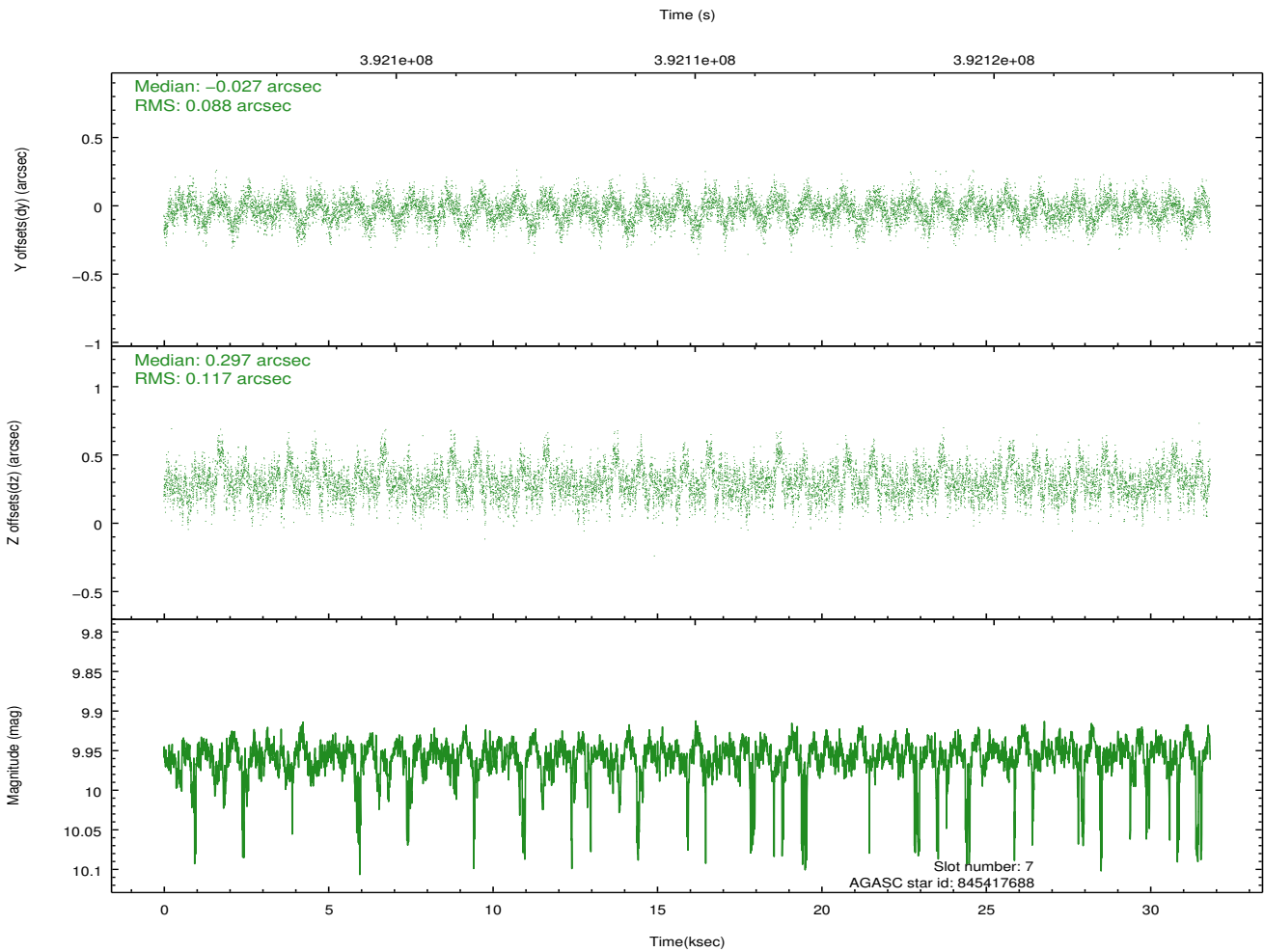
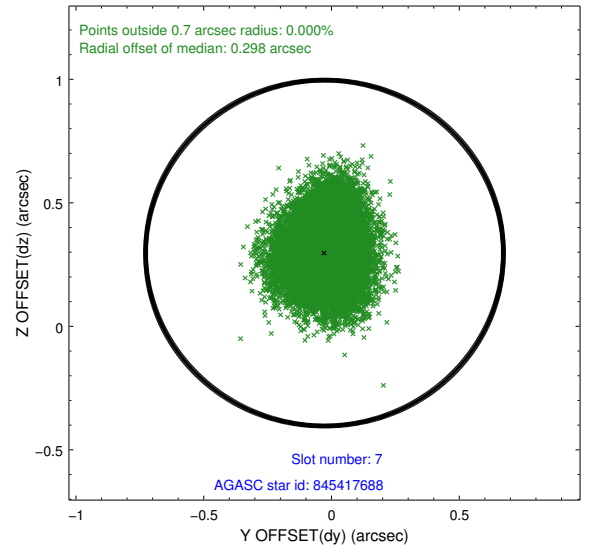
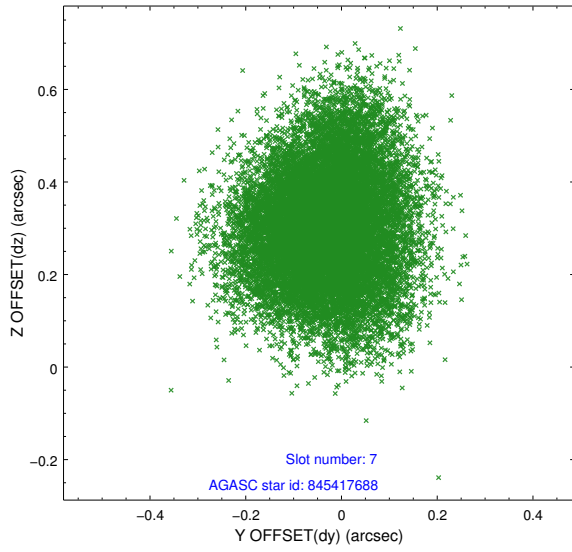
2.4.3 Slot 5



2.4.4 Slot 6

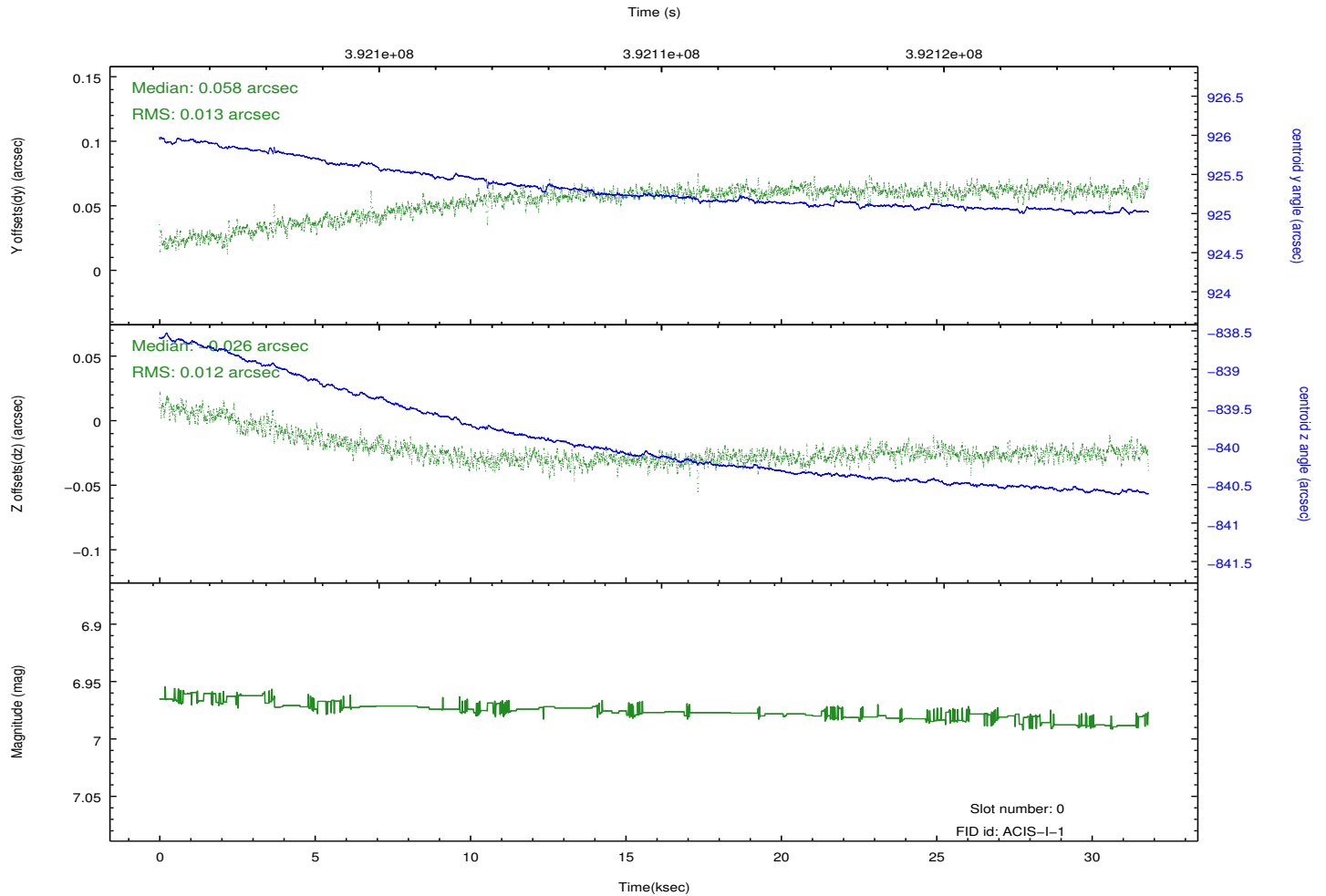
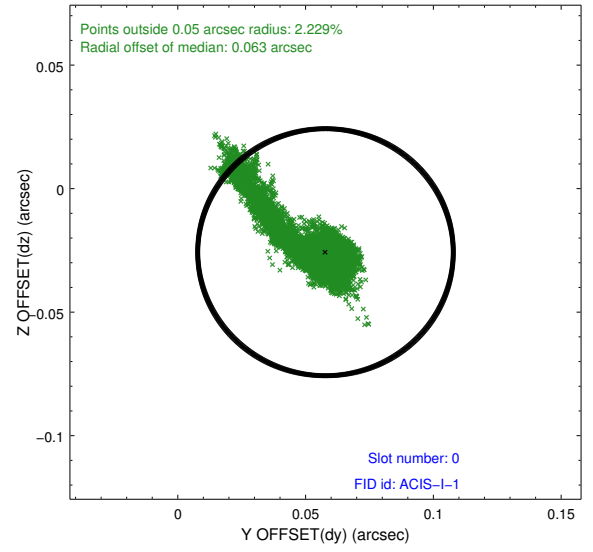
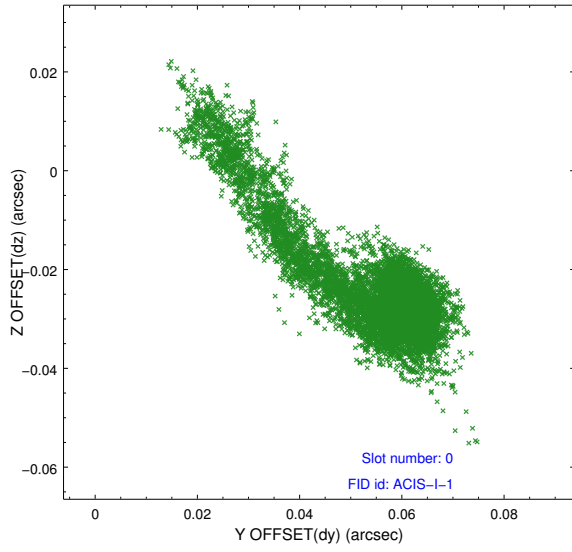


2.4.5 Slot 7

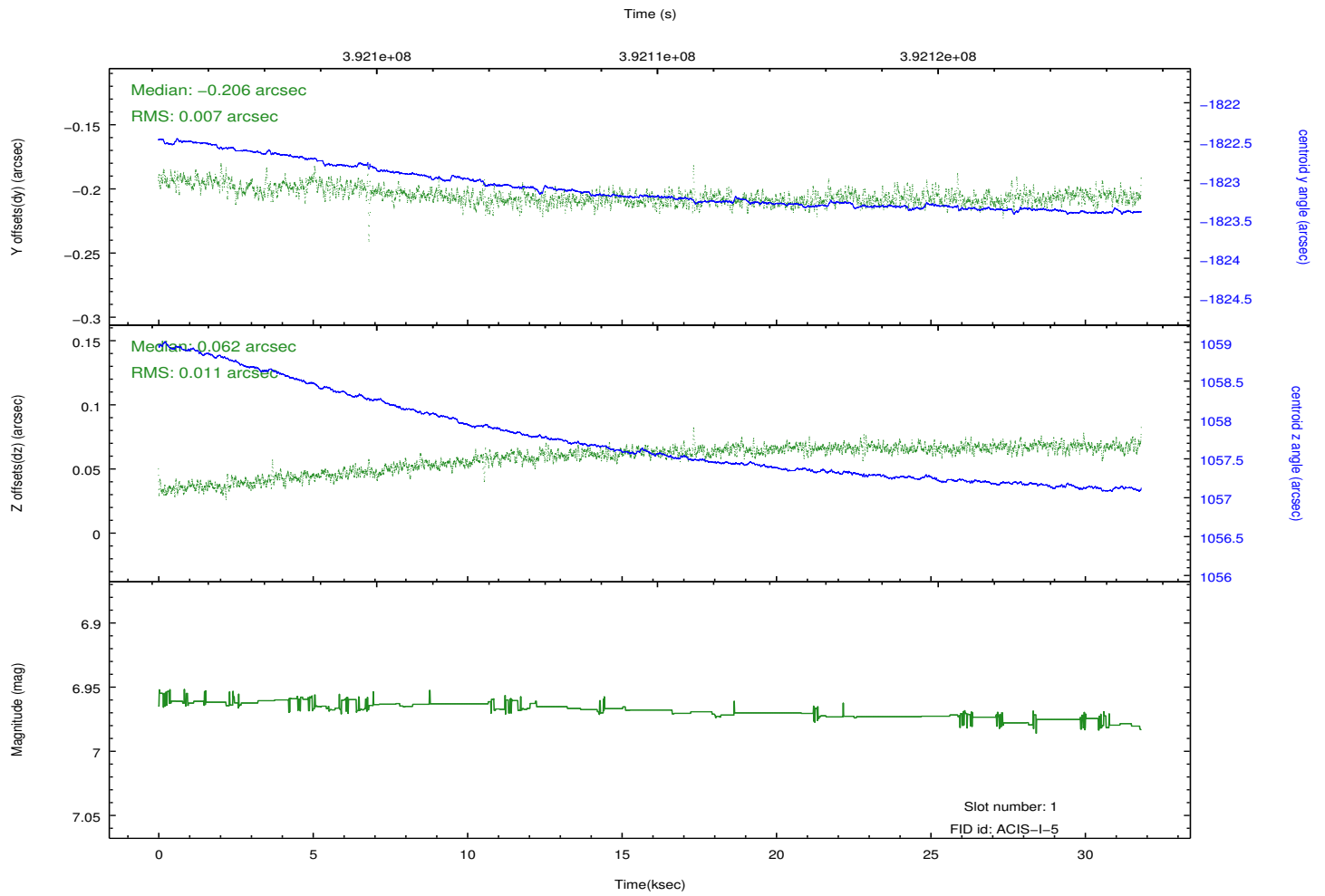
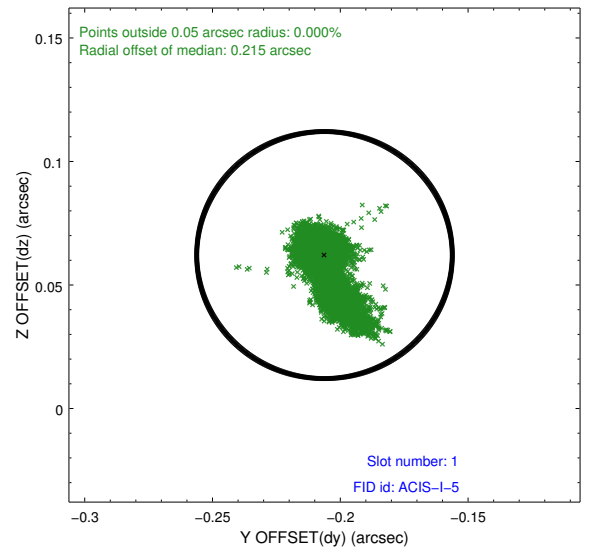
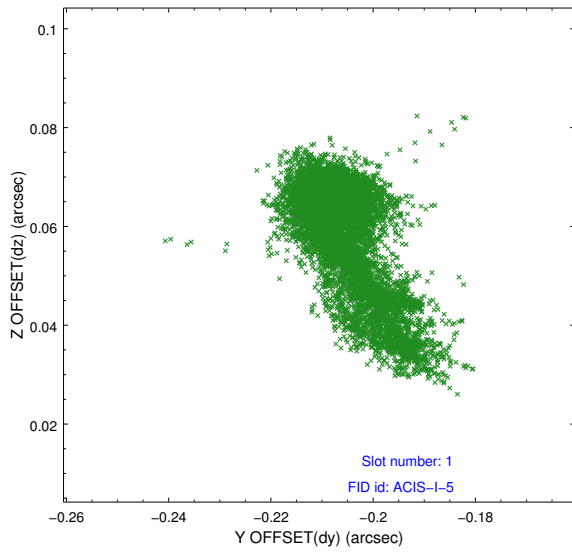


2.5 FID Slots

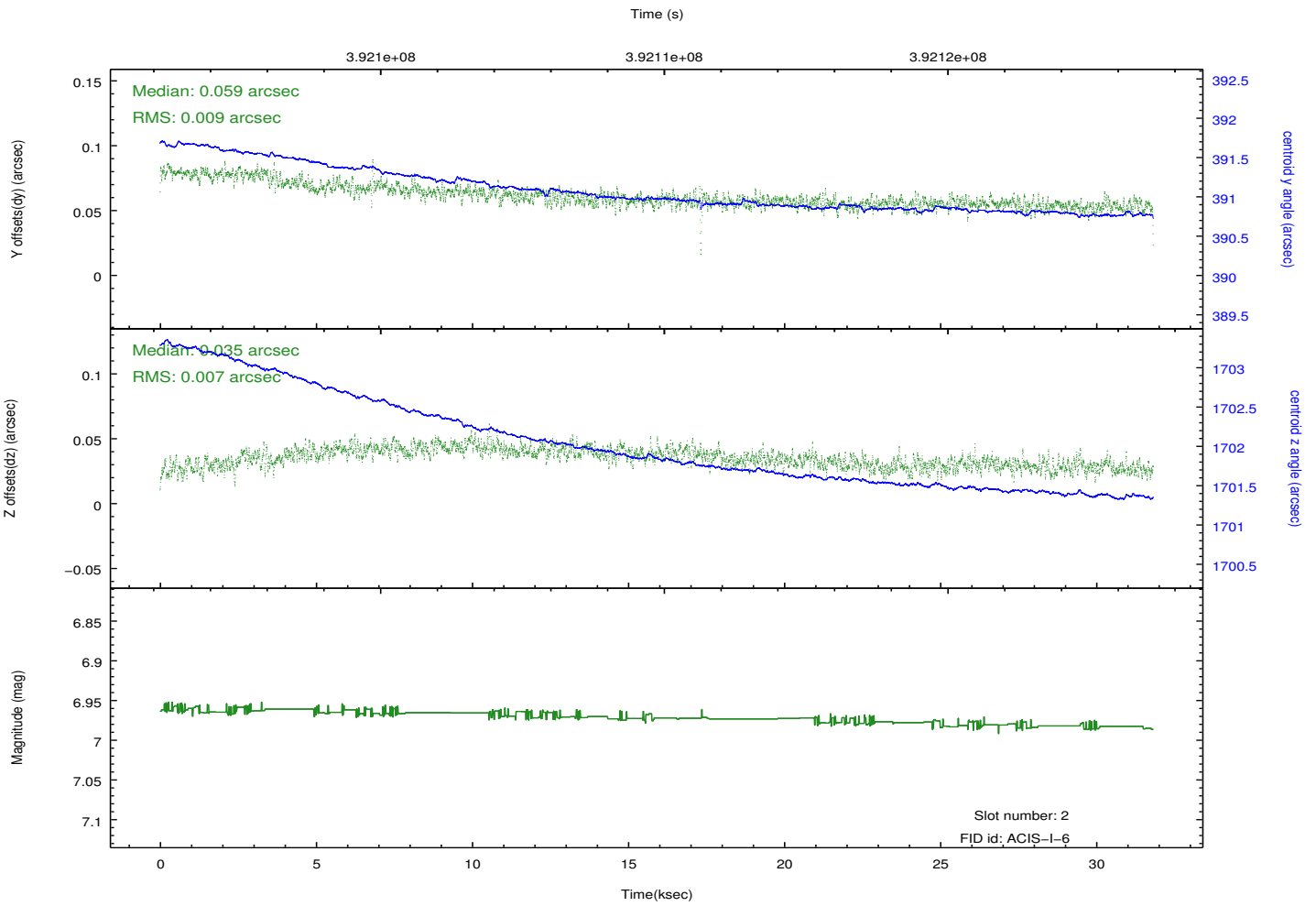
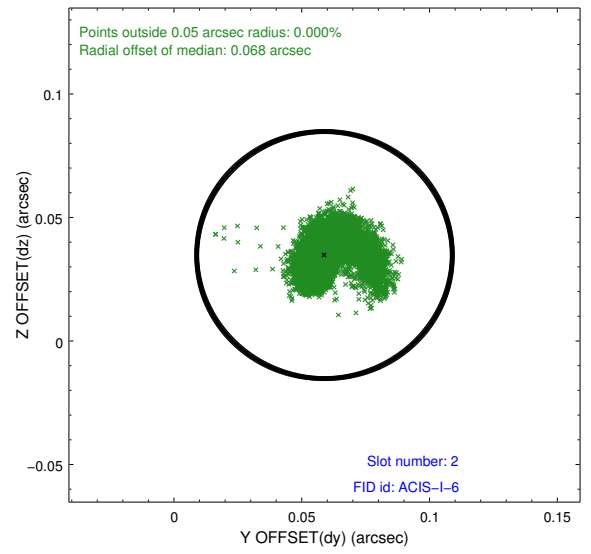
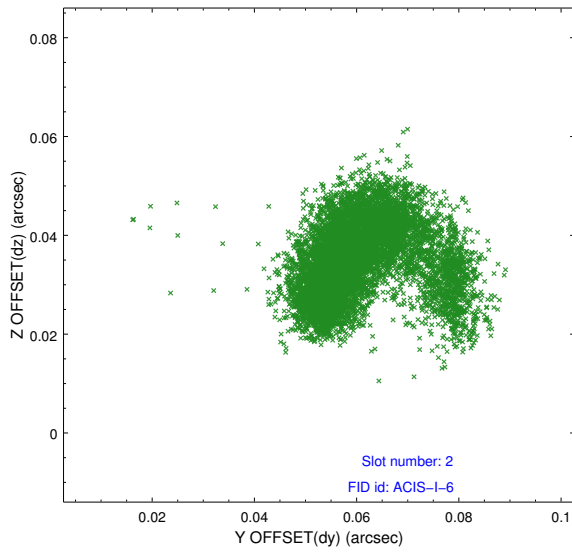
2.5.1 Slot 0



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)	2012.07.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	31.049146216989

A.2 Comments