

V&V Reference Report

L2 ASCDS Version : 10.5.1.1

Observation 18473 - L2 Version 1
Chandra X-Ray Center

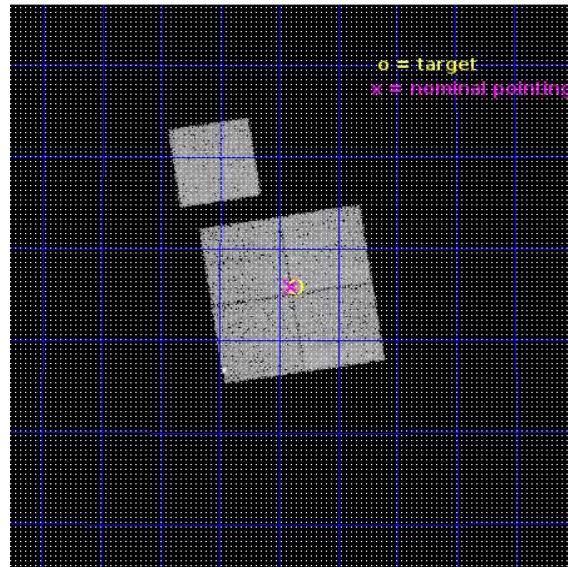
L2 Processing Date : Oct 26 2016

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1 Front

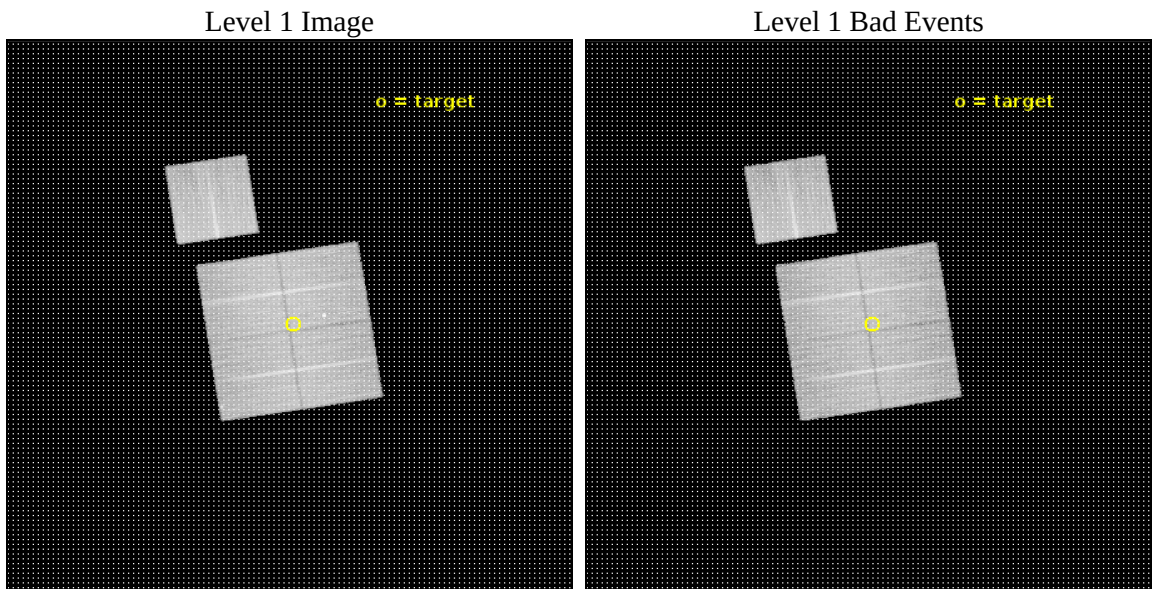
seq_num	901206	Sequence number
obs_id	18473	Observation id
title	An extended moderate-depth contiguous layer of the Chandra Bootes field	Proposal title
observer	Ralph Kraft	Principal investigator
object	Bootes Cy17-1	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	217.83987	Observer's specified target RA [deg]
dec_targ	34.429639	Observer's specified target Dec [deg]
ra_nom	217.84872254817	Nominal RA [deg]
dec_nom	34.431489736815	Nominal Dec [deg]
roll_nom	351.20368063826	Nominal Roll [deg]
revision	1	Processing version of data
ontime	25215.318233728	Sum of GTIs [s]
livetime	24885.861537758	Livetime [s]
ontime0	25221.600194097	Sum of GTIs [s]
ontime1	25221.600194097	Sum of GTIs [s]
ontime2	25218.459203959	Sum of GTIs [s]
ontime3	25215.318233728	Sum of GTIs [s]
ontime6	25221.600194097	Sum of GTIs [s]
l2events	81455	Number of level 2 events



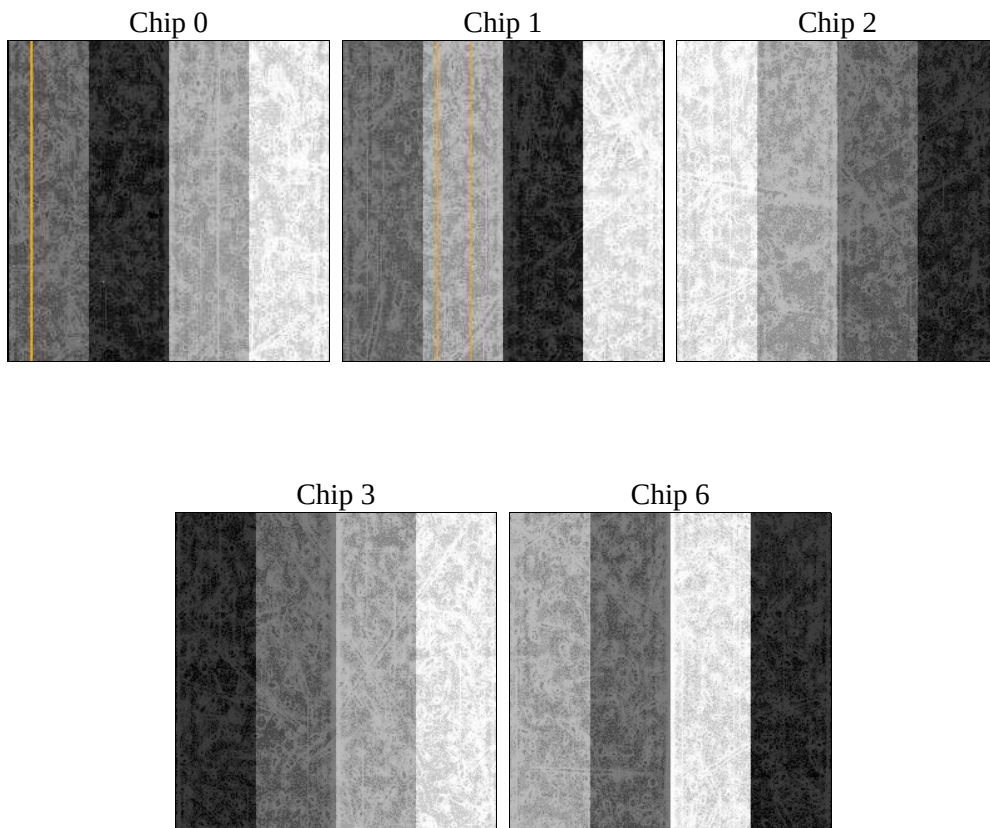
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	25449.762000	[s] Scheduled observation exposure time
ascdsver	10.5.1.1	Processing system revision	ontime	25215.318233728	Sum of GTIs [s]
caldsver	4.7.2	 	ontime0	25221.600194097	Sum of GTIs [s]
date	2016-10-26T10:15:59	Date and time of file creation	ontime1	25221.600194097	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	25218.459203959	Sum of GTIs [s]
			ontime3	25215.318233728	Sum of GTIs [s]
			ontime6	25221.600194097	Sum of GTIs [s]
			l1events	835435	Number of level 1 events

2.1.4 Events

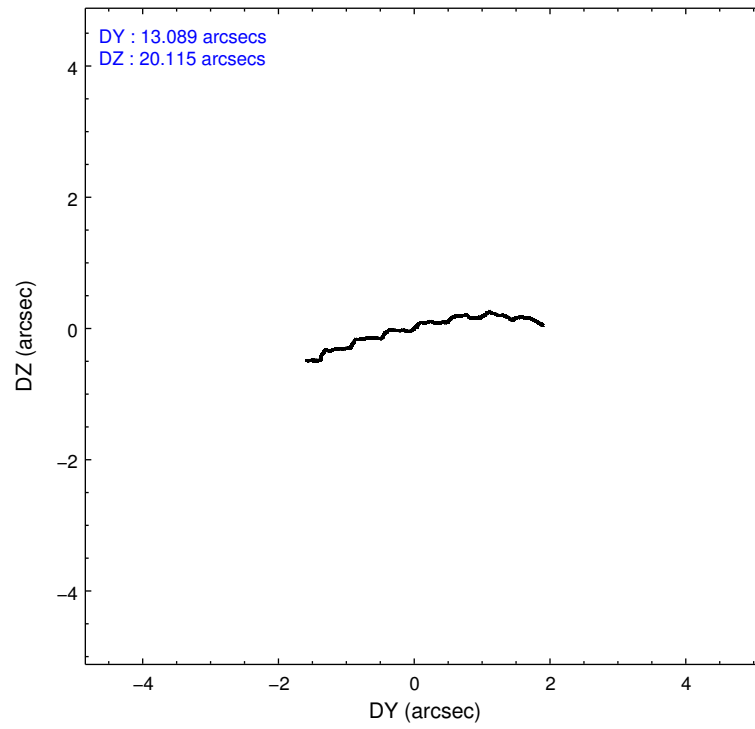
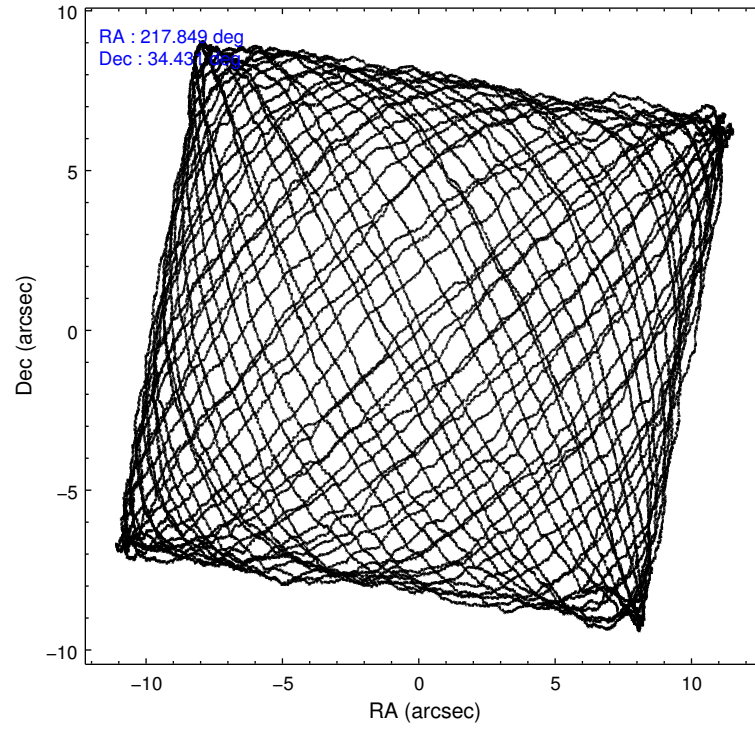
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
level 1 events	160783	158721	173352	168685	173894
rejected events	141280	137706	154951	148536	154516
rejected %	87%	86%	89%	88%	88%

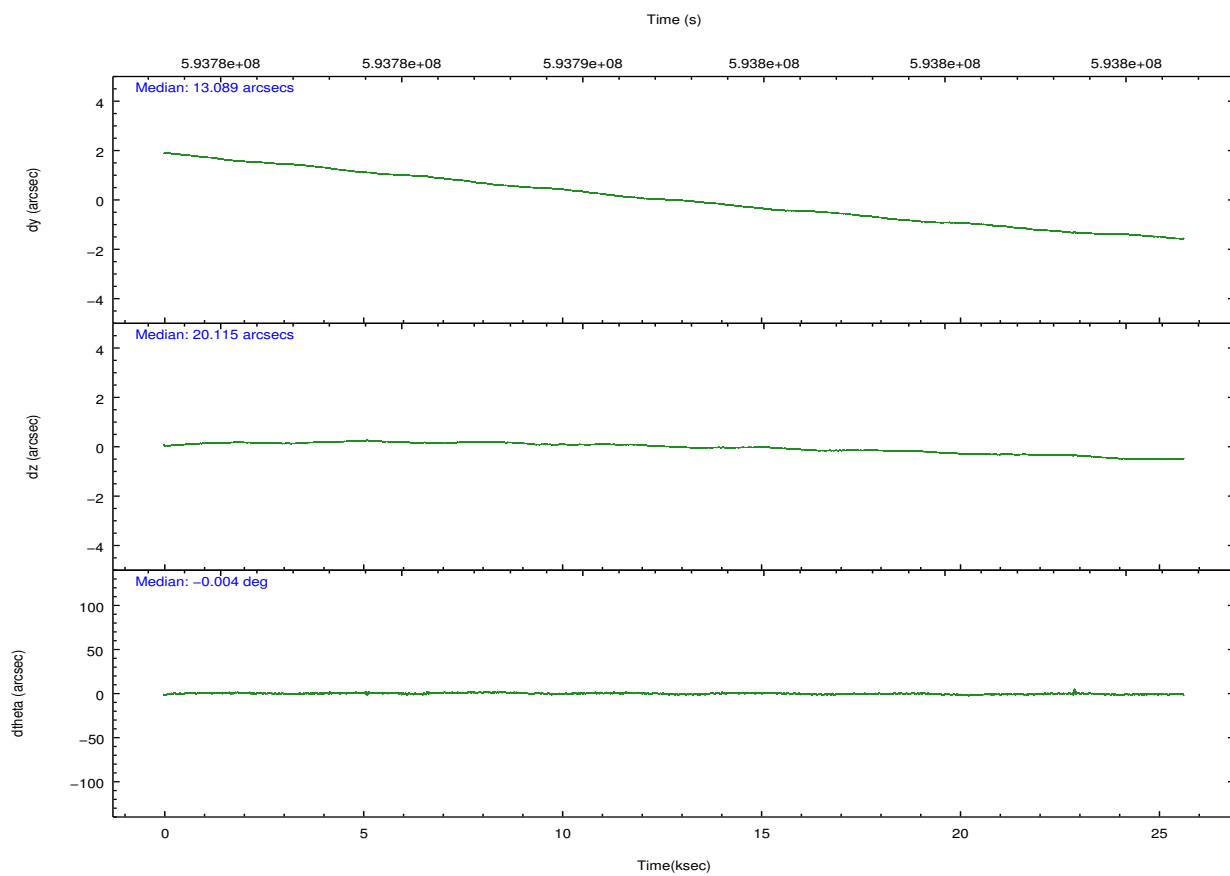
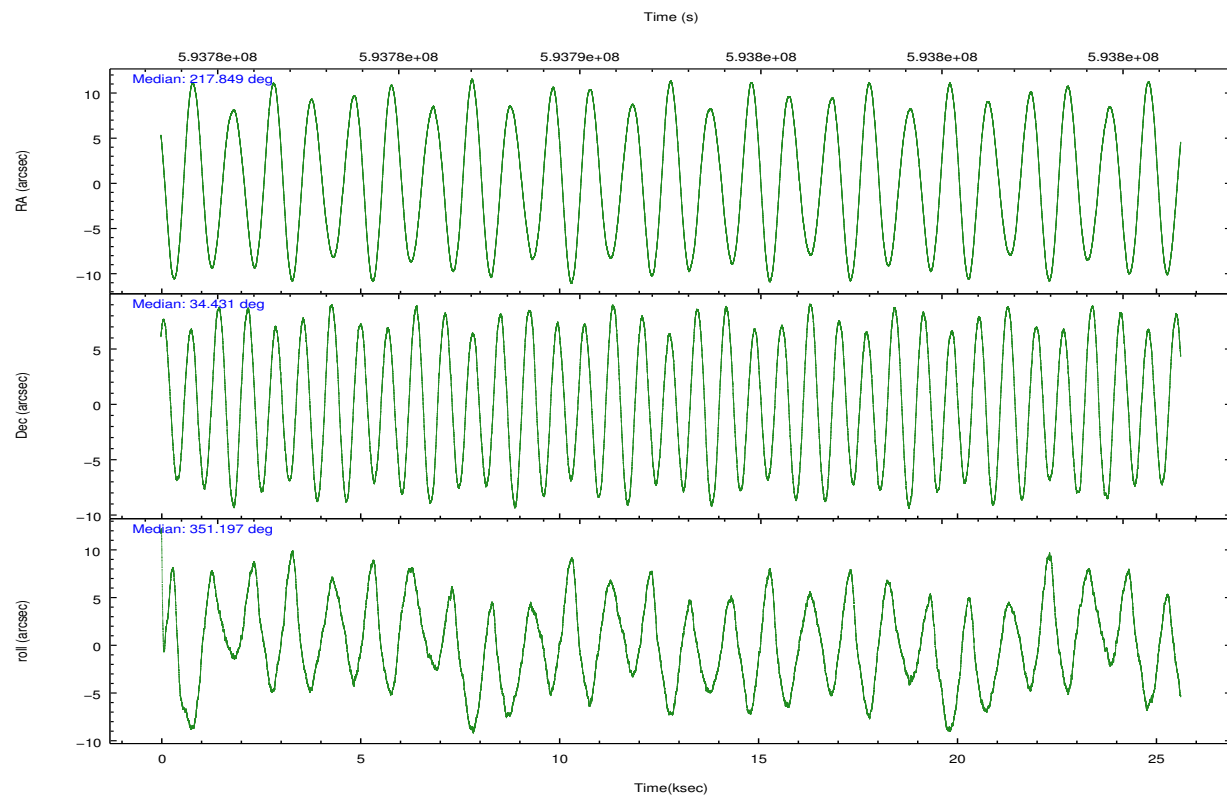
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6
grade 0 events	6724	7031	6606	7109	6552
	4%	4%	3%	4%	3%
grade 1 events	83	72	95	118	77
	0%	0%	0%	0%	0%
grade 2 events	4922	5387	4592	5505	4433
	3%	3%	2%	3%	2%
grade 3 events	1919	1955	1780	1854	1976
	1%	1%	1%	1%	1%
grade 4 events	1916	1963	1825	1975	1941
	1%	1%	1%	1%	1%
grade 5 events	6917	7523	6590	8244	7918
	4%	4%	3%	4%	4%
grade 6 events	4028	4684	3603	3715	4477
	2%	2%	2%	2%	2%
grade 7 events	134274	130106	148261	140165	146520
	83%	81%	85%	83%	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	217.817601	217.8487225481716	CCD I2 on	Y	Y
[deg] Pointing Dec	34.421400	34.4314897368148	CCD I3 on	Y	Y
[deg] Pointing Roll	351.012584	351.2036806382618	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	N
[mm] SIM translation stage offset	0	-0.005018542100998502	CCD S4 on	N	N
[s] Observation start time (MET)	593779872.184000	593779480.33877	CCD S5 on	N	N
Observation start date	2016-10-25T10:50:04	2016-10-25T10:44:40	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	593805322.184000	593805558.90279	On-chip summing requested	N	N
Observation end date	2016-10-25T17:54:14	2016-10-25T17:59:18	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



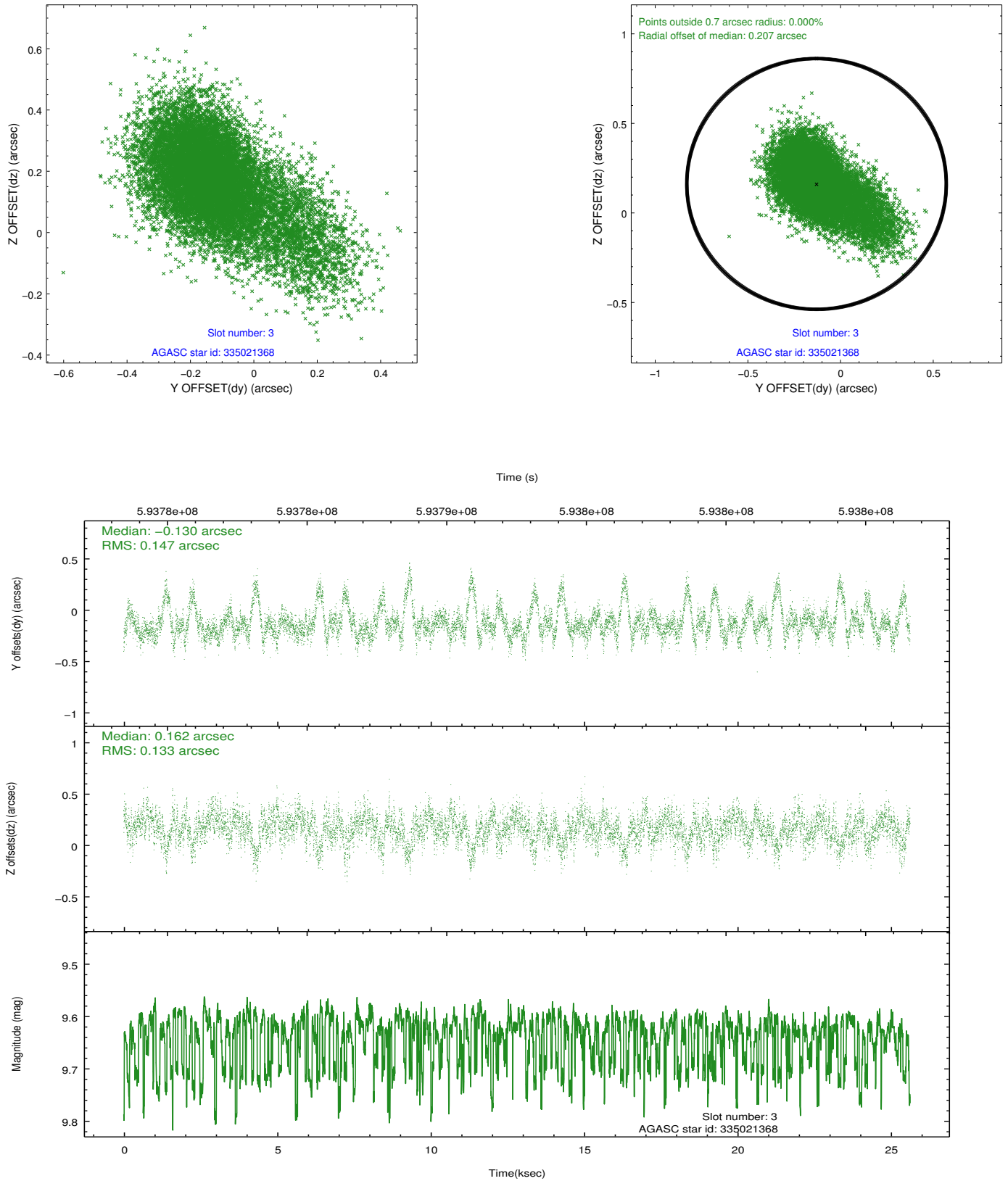


Slot Statistics

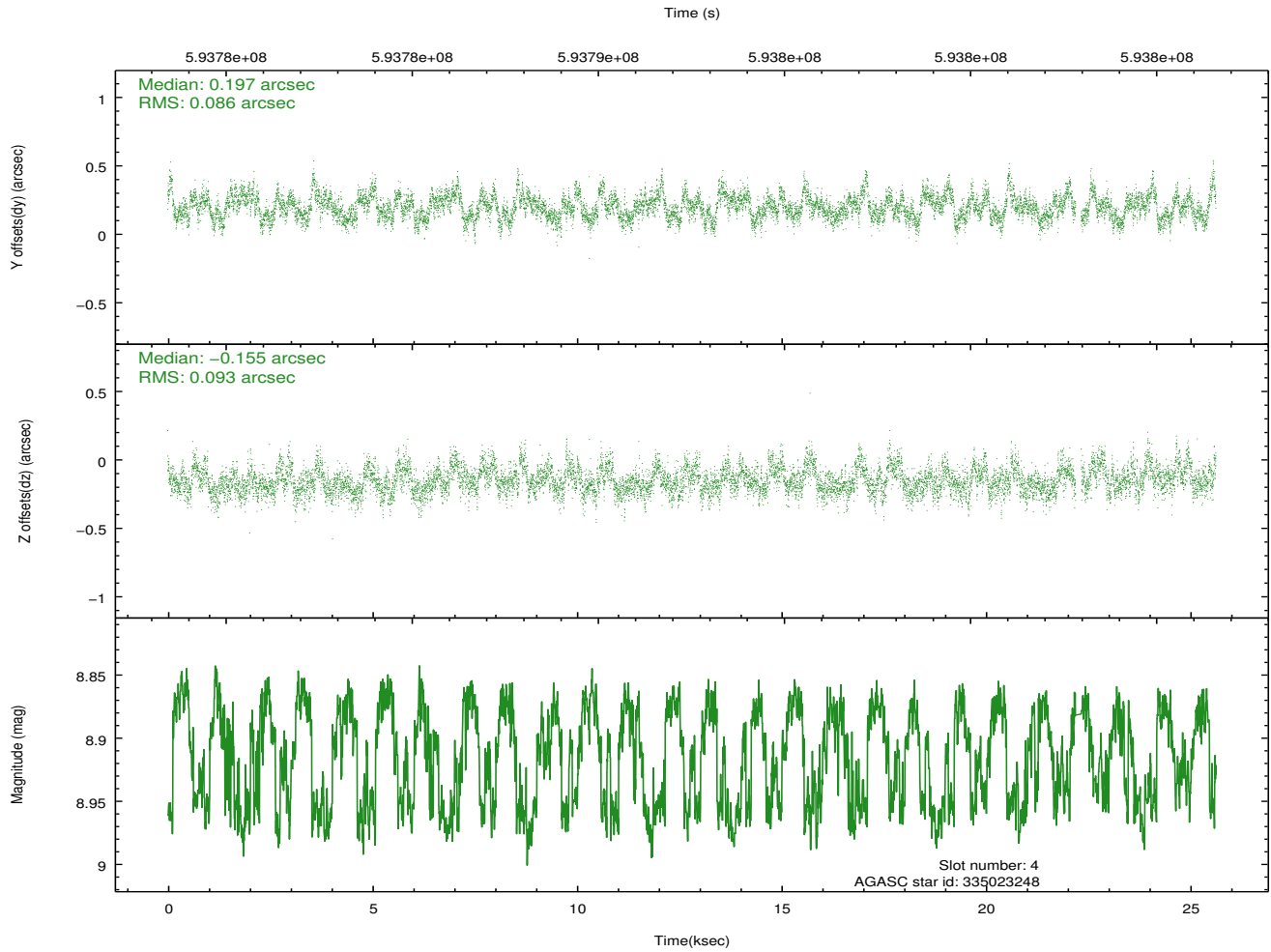
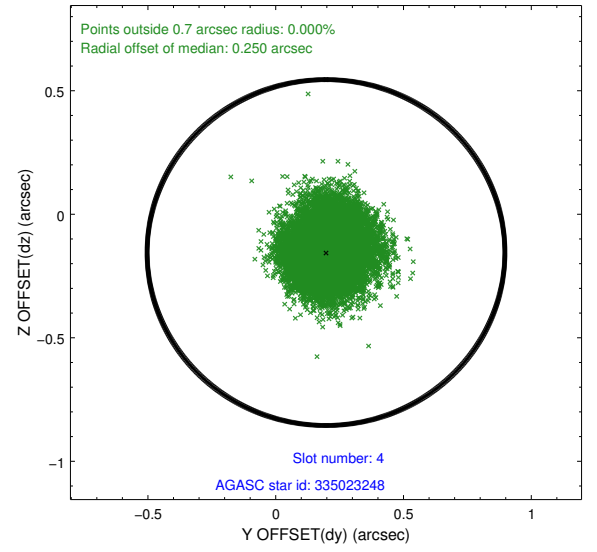
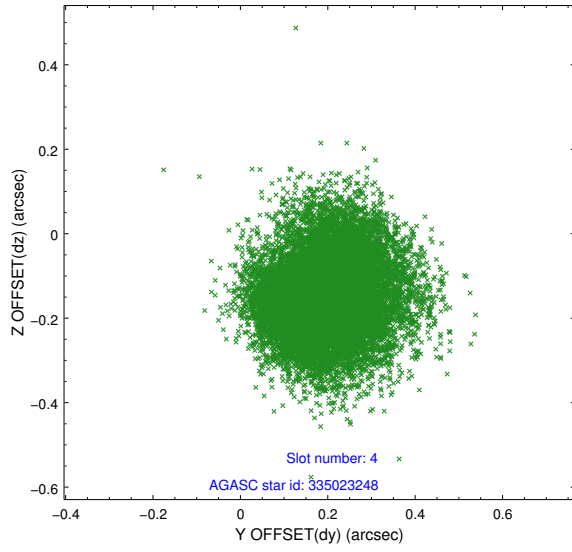
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.18	6252	0.068	-0.047	0.020	0.038	0.000000	0.000000	926.46	-843.82
1	FID		ACIS-I-5	7.18	6250	-0.315	0.038	0.022	0.032	0.000000	0.000000	-1822.03	1053.60
2	FID		ACIS-I-6	7.19	6252	0.154	0.078	0.027	0.038	0.000000	0.000000	391.89	1698.34
3	GUIDE	used	335021368	9.63	12491	-0.130	0.162	0.192	0.386	217.529643	33.934817	-576.02	-1862.97
4	GUIDE	used	335023248	8.91	12428	0.197	-0.155	0.135	0.215	217.634832	34.944512	-827.12	1776.19
5	GUIDE	used	335028696	9.17	12493	-0.427	0.148	0.142	0.234	217.260519	33.844112	-1321.62	-2308.03
6	GUIDE	used	335417968	9.35	12483	-0.069	-0.428	0.144	0.239	217.358149	35.055285	-1694.83	2045.04
7	GUIDE	used	335025848	9.68	12411	0.429	0.256	0.246	0.396	217.530531	33.778292	-486.53	-2419.06

2.4 Star Slots

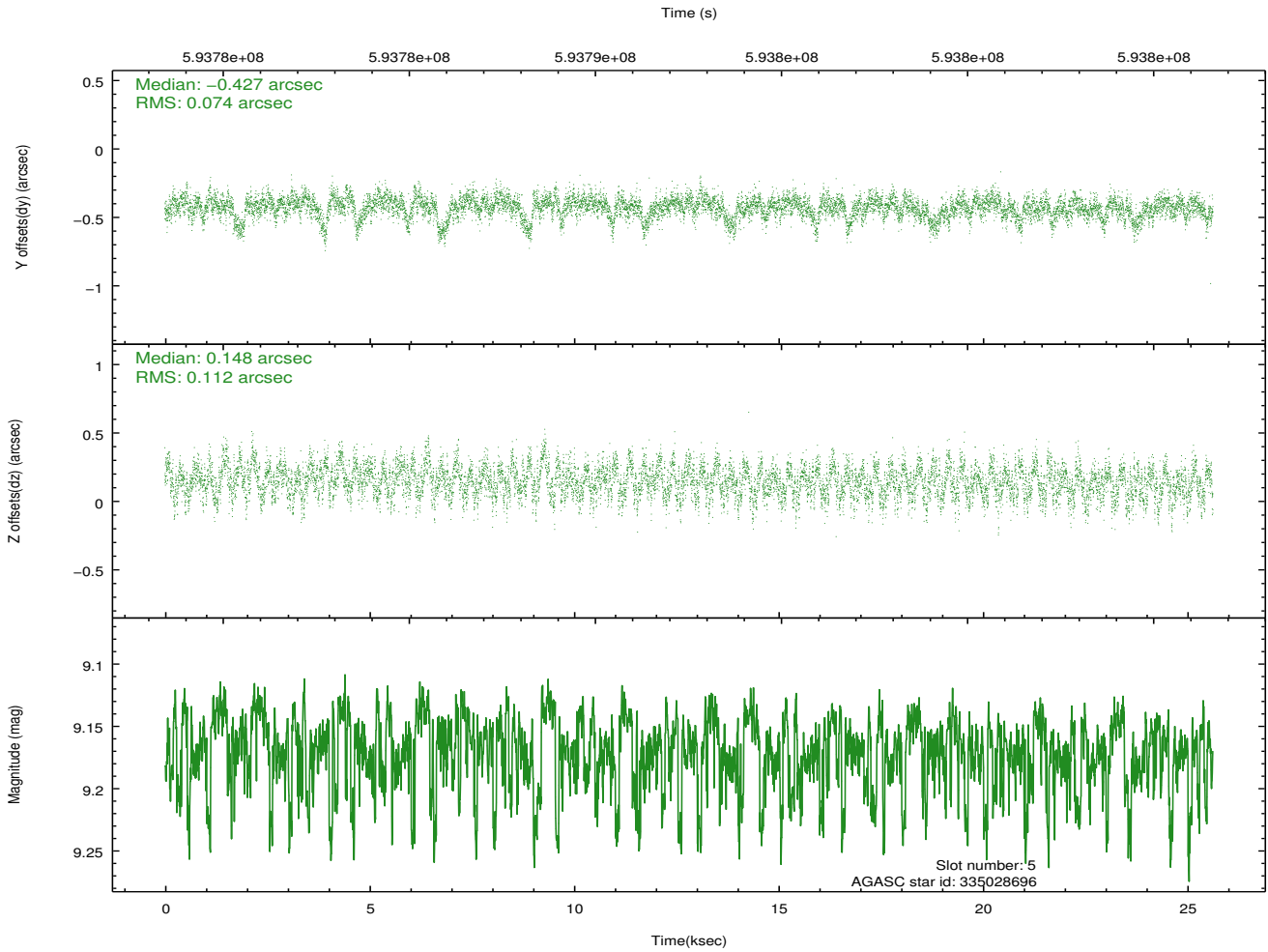
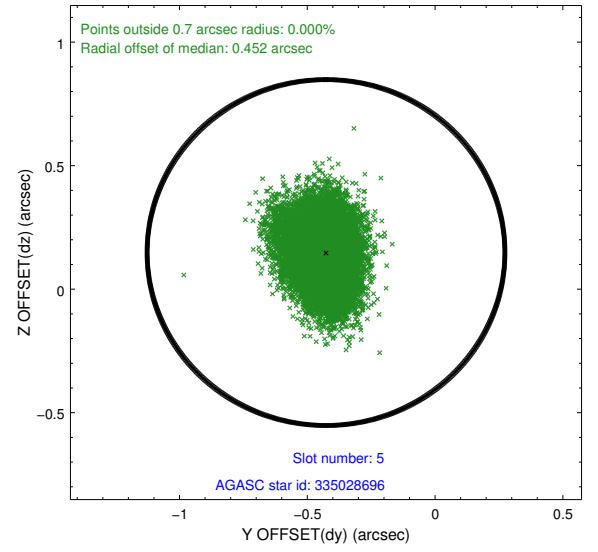
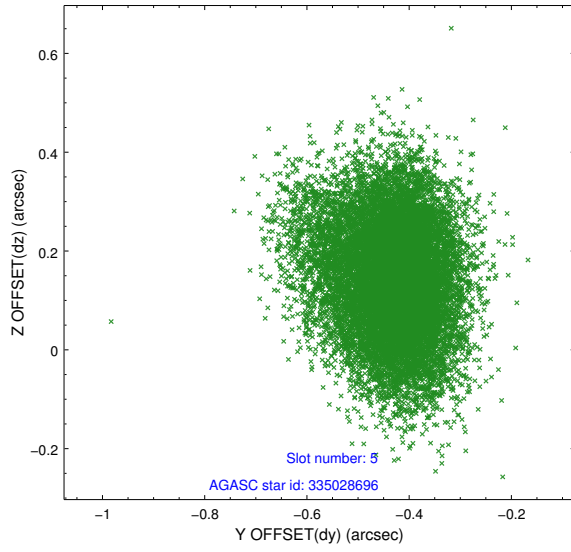
2.4.1 Slot 3



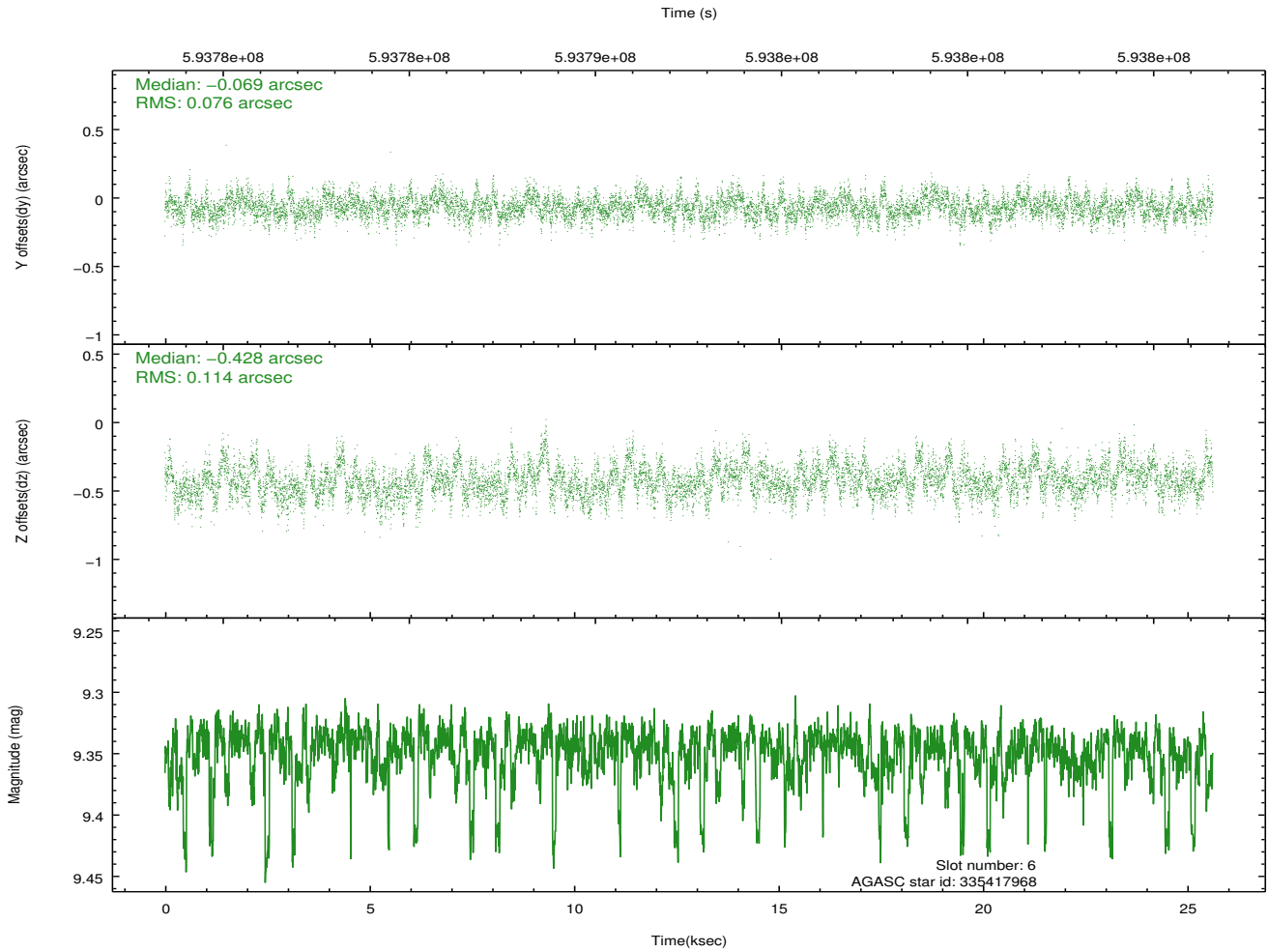
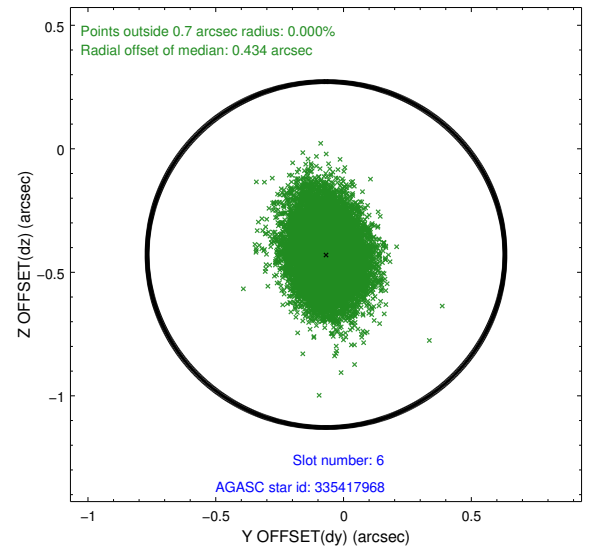
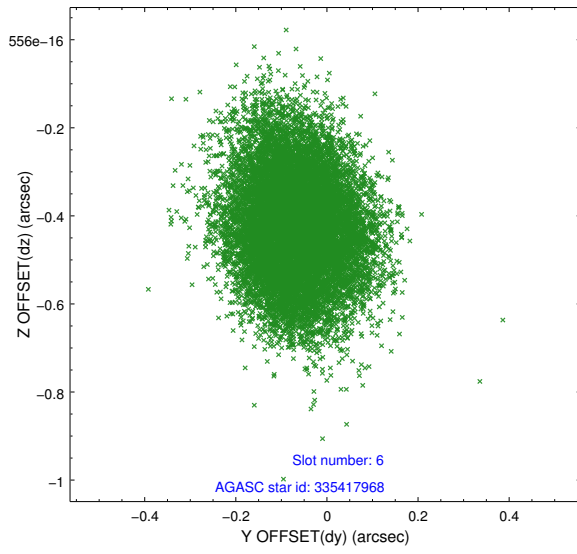
2.4.2 Slot 4



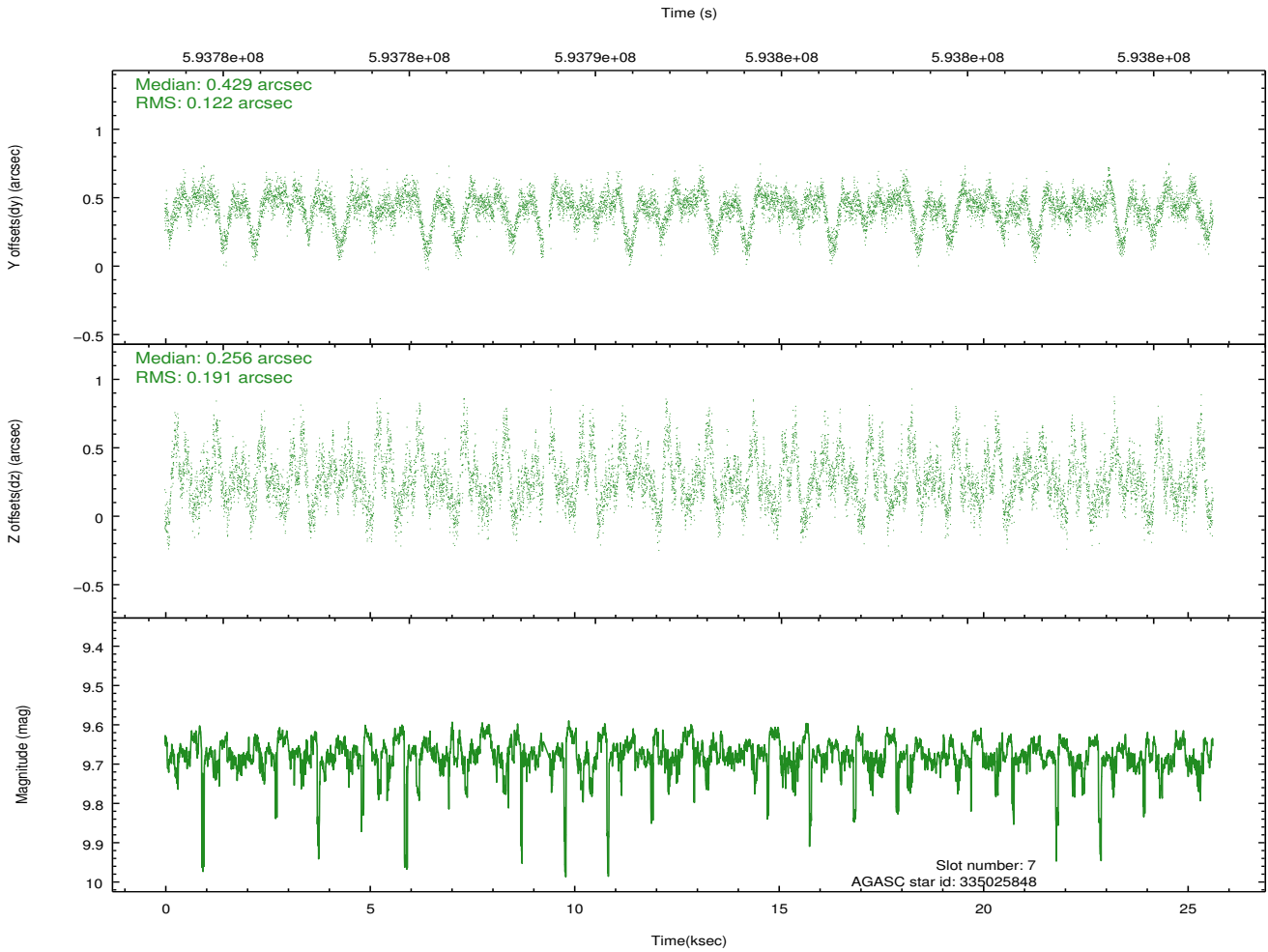
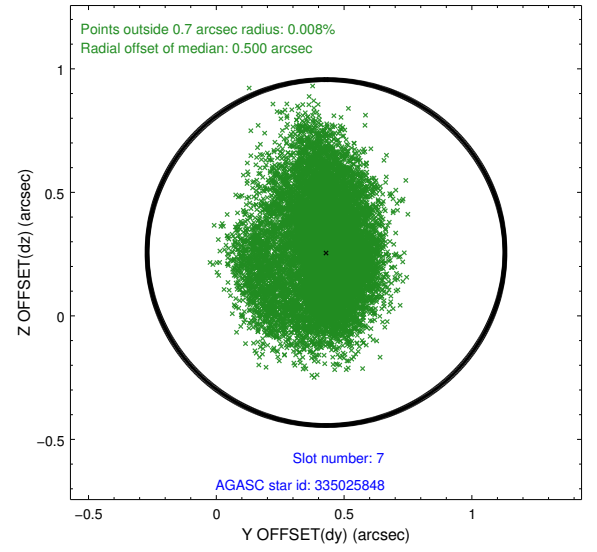
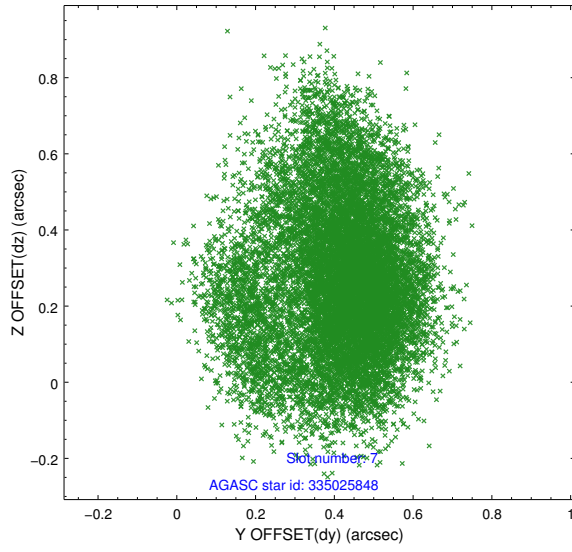
2.4.3 Slot 5



2.4.4 Slot 6

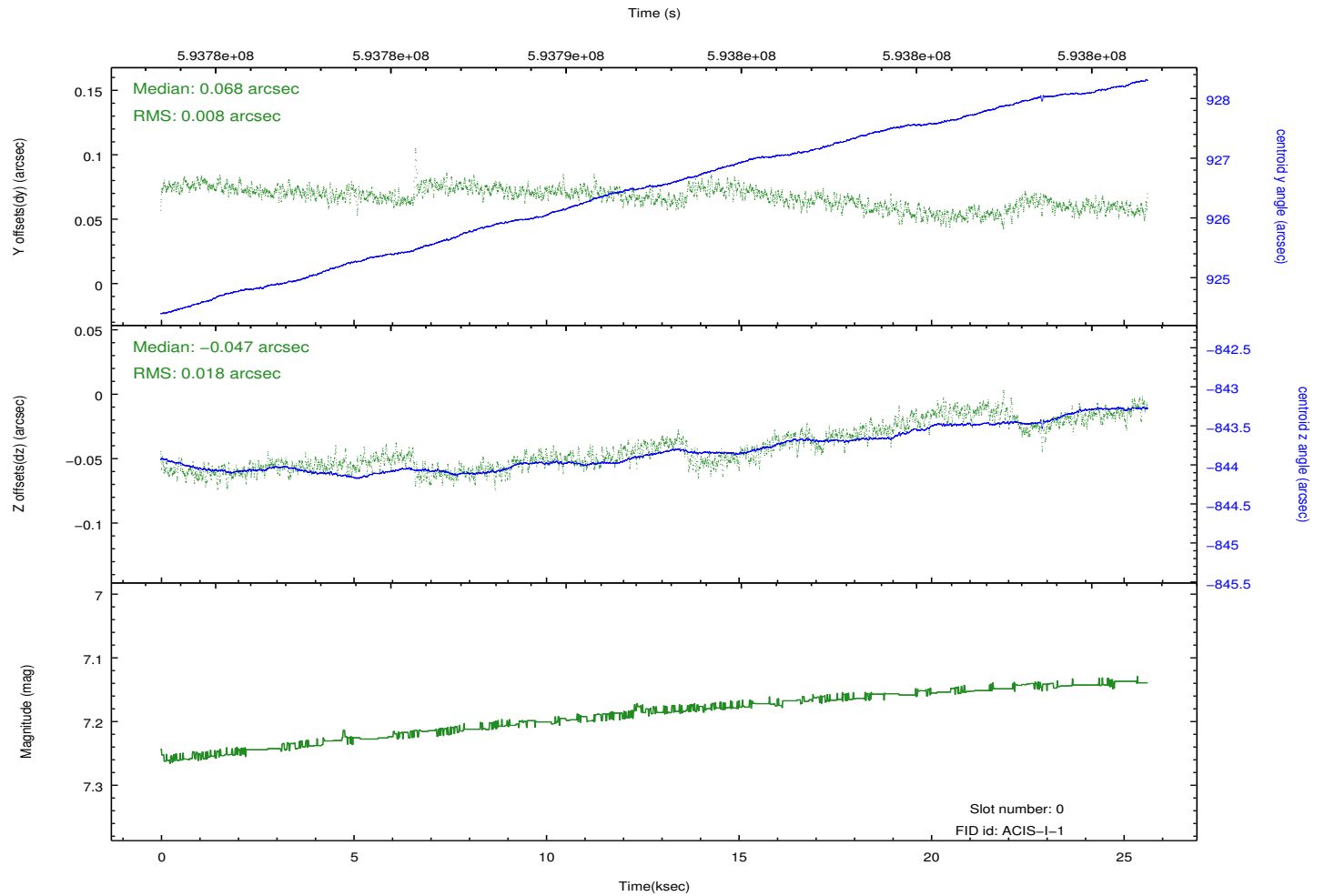
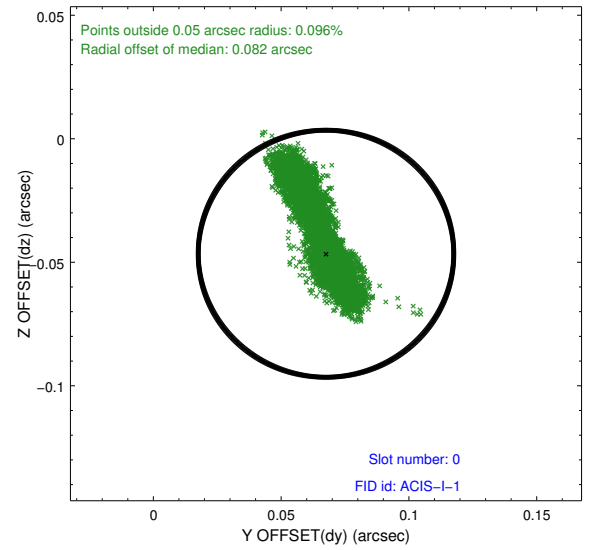
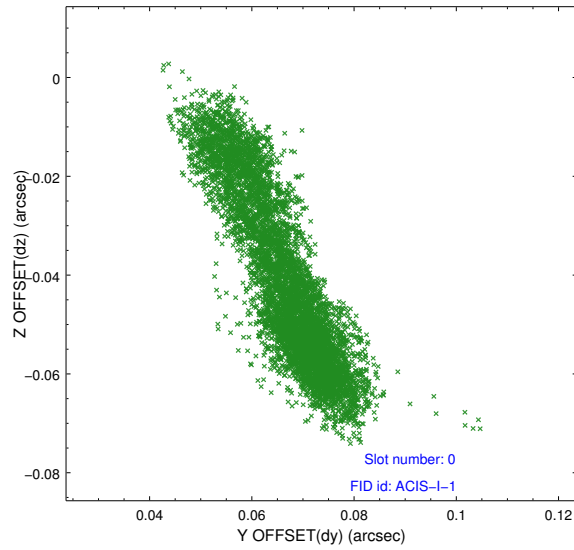


2.4.5 Slot 7

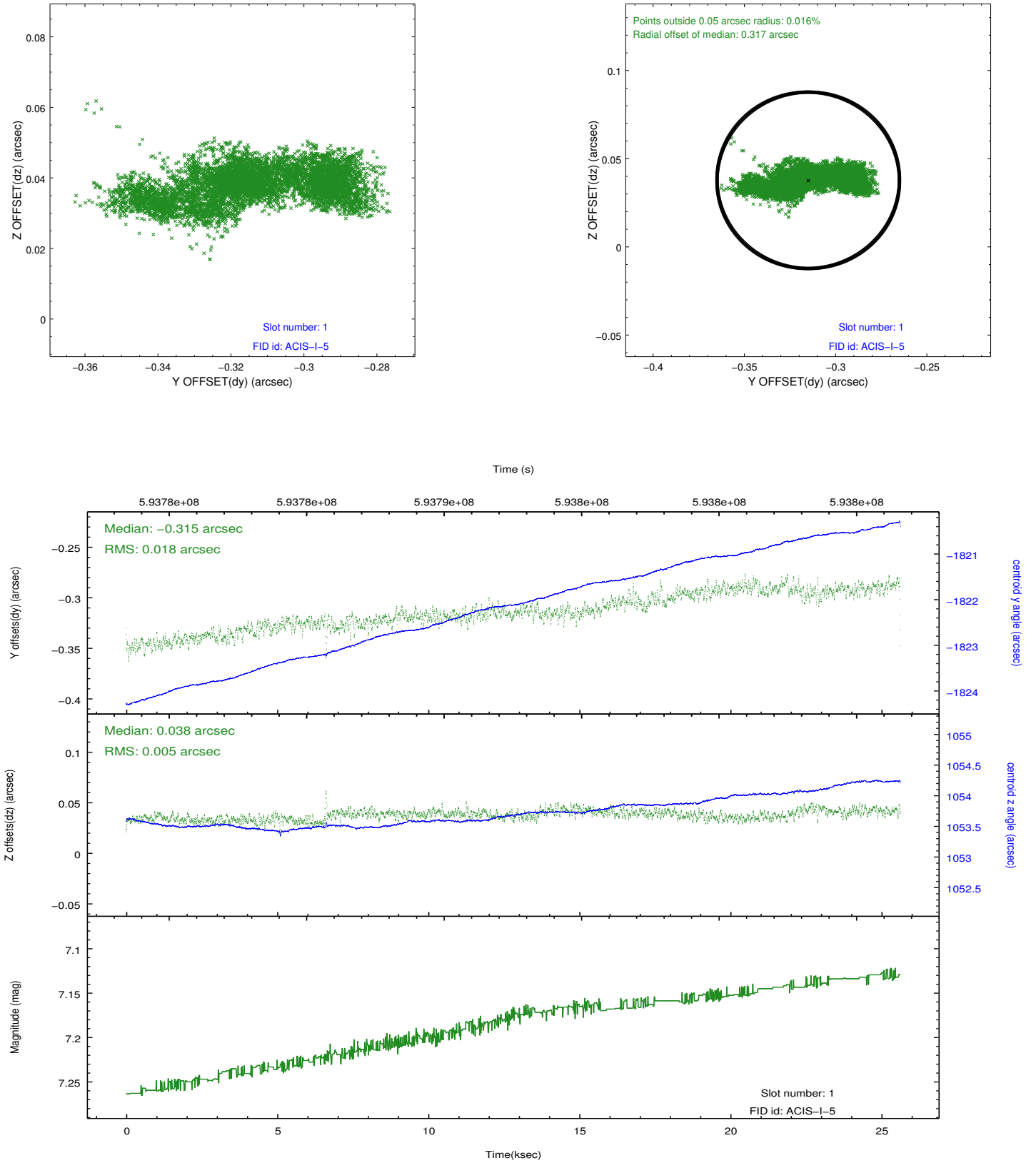


2.5 FID Slots

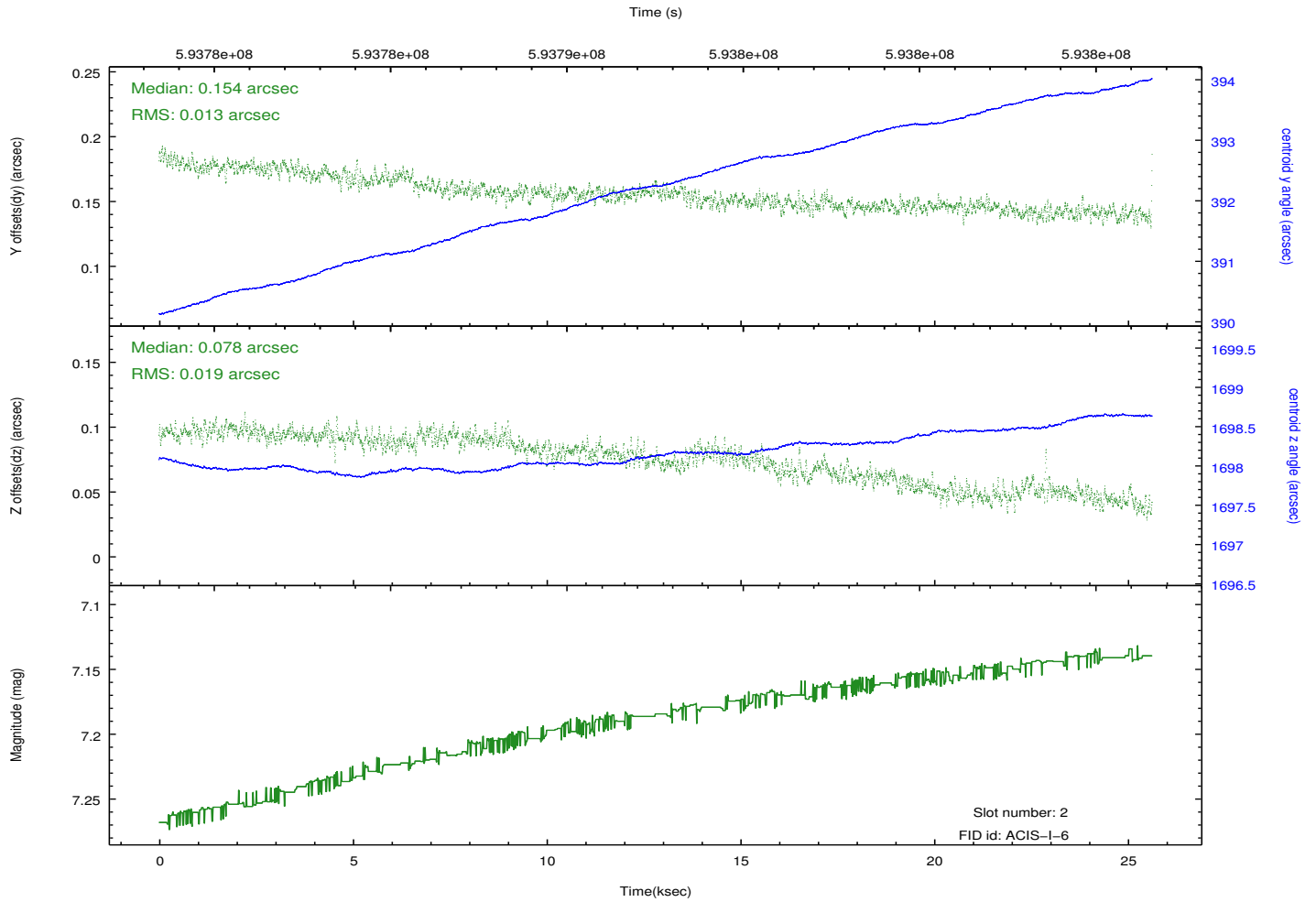
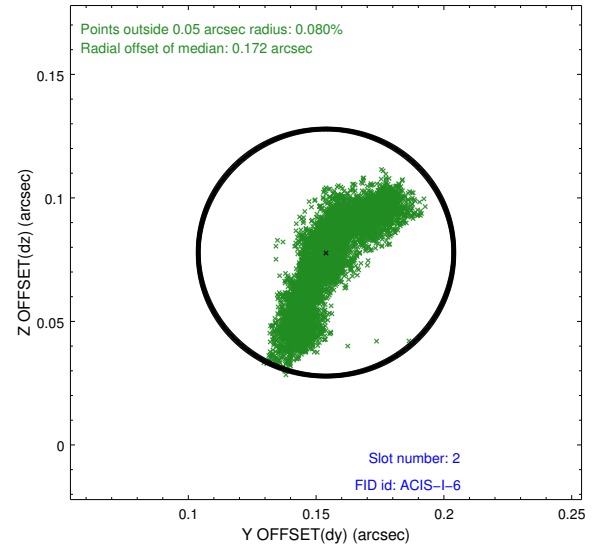
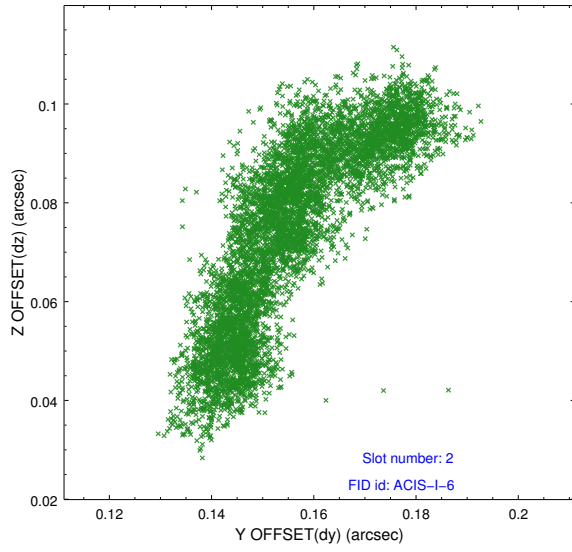
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2016.10.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	25.215318233728

A.2 Comments