

V&V Reference Report

L2 ASCDS Version : 10.4.2.1

Observation 17435 - L2 Version 1
Chandra X-Ray Center

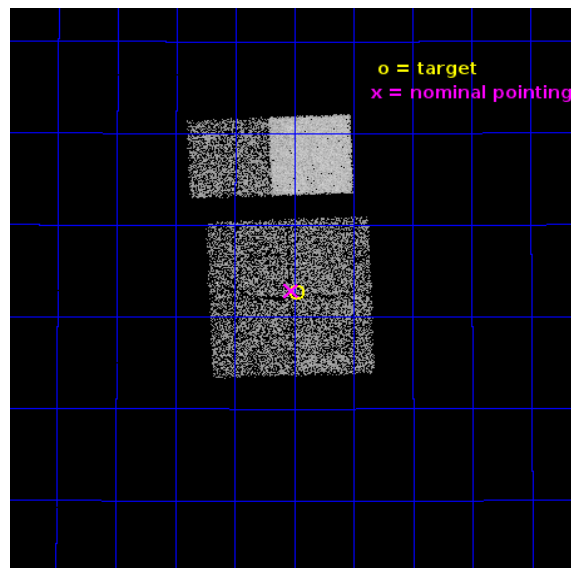
L2 Processing Date : Nov 4 2015

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1 Front

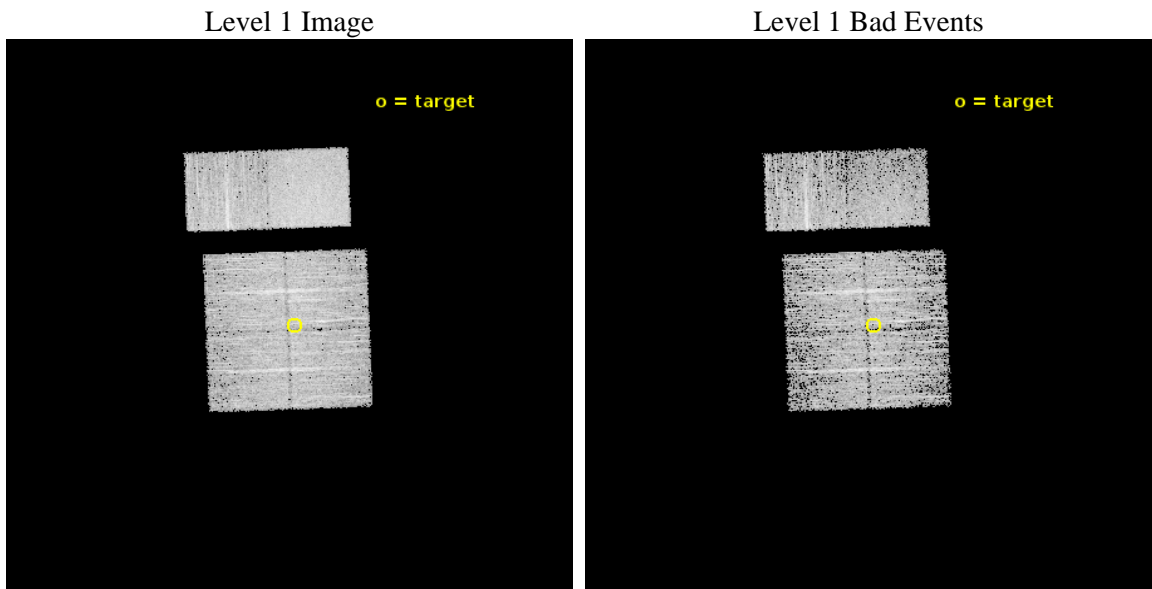
seq_num	901182	Sequence number
obs_id	17435	Observation id
title	A new moderate-depth contiguous layer of the Chandra Bootes field	
observer	Dr. Stephen Murray	Principal investigator
object	Bootes mod depth 4	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	216.869167	Observer's specified target RA [deg]
dec_targ	34.211528	Observer's specified target Dec [deg]
ra_nom	216.88073371103	Nominal RA [deg]
dec_nom	34.214419926402	Nominal Dec [deg]
roll_nom	357.80218368052	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6193.8508061171	Sum of GTIs [s]
livetime	6115.4205377208	Livetime [s]
ontime0	6196.9686765671	Sum of GTIs [s]
ontime1	6193.7687360048	Sum of GTIs [s]
ontime2	6197.0507565737	Sum of GTIs [s]
ontime3	6193.8508061171	Sum of GTIs [s]
ontime6	6197.173876524	Sum of GTIs [s]
ontime7	6197.1328365803	Sum of GTIs [s]
l2events	35787	Number of level 2 events



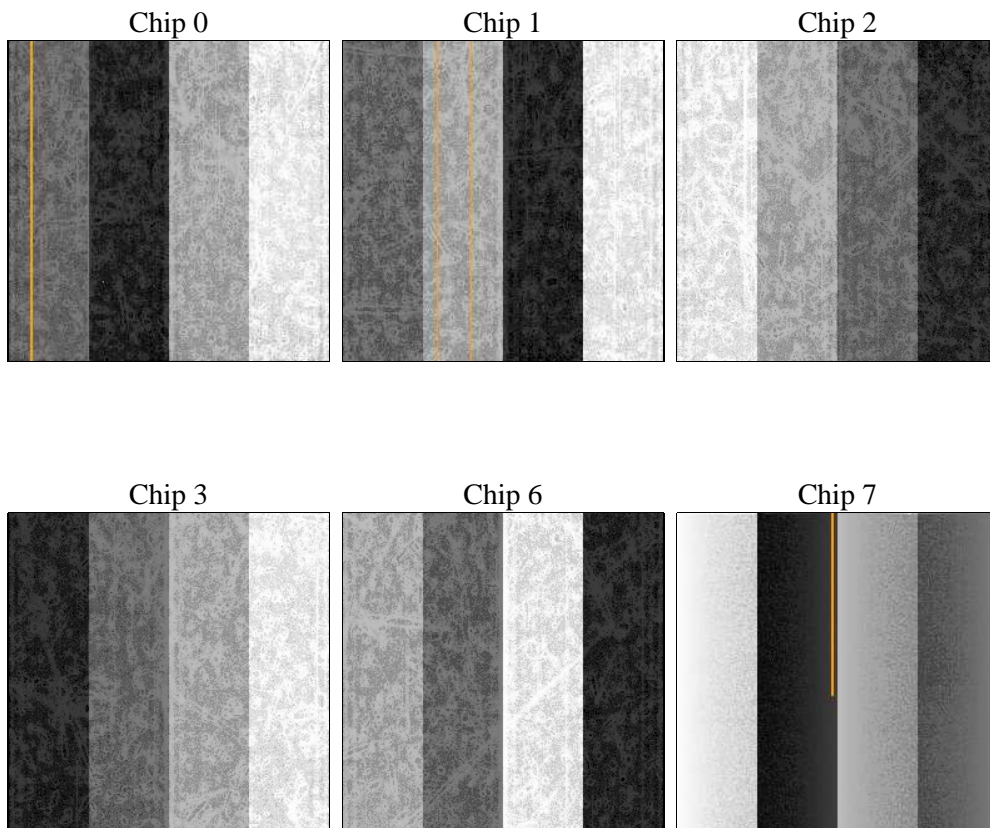
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	6250.000000	[s] Scheduled observation exposure time
ascdsver	10.4.2.1	Processing system revision	ontime	6193.8508061171	Sum of GTIs [s]
caldsver	4.6.10a	 	ontime0	6196.9686765671	Sum of GTIs [s]
date	2015-11-05T02:02:30	Date and time of file creation	ontime1	6193.7687360048	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6197.0507565737	Sum of GTIs [s]
			ontime3	6193.8508061171	Sum of GTIs [s]
			ontime6	6197.173876524	Sum of GTIs [s]
			ontime7	6197.1328365803	Sum of GTIs [s]
			l1events	205710	Number of level 1 events

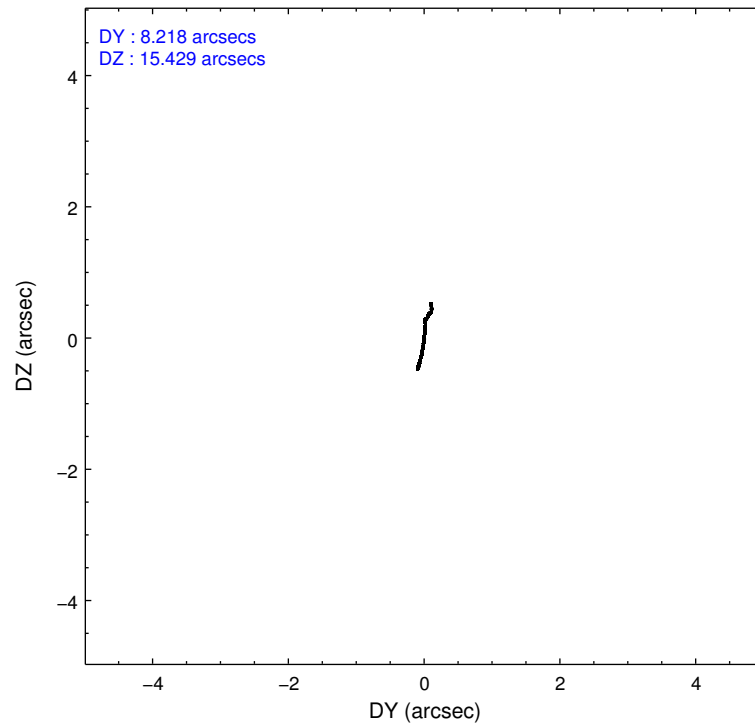
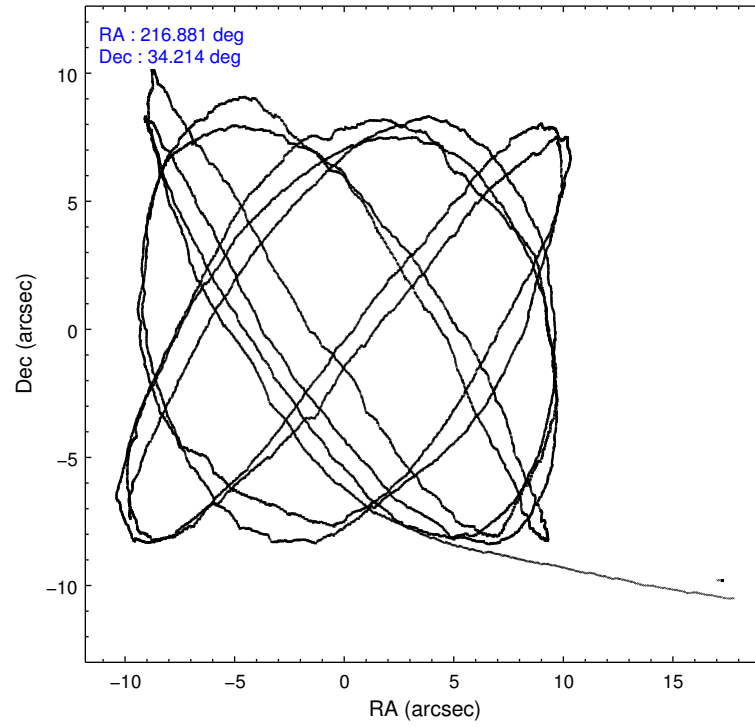
2.1.4 Events

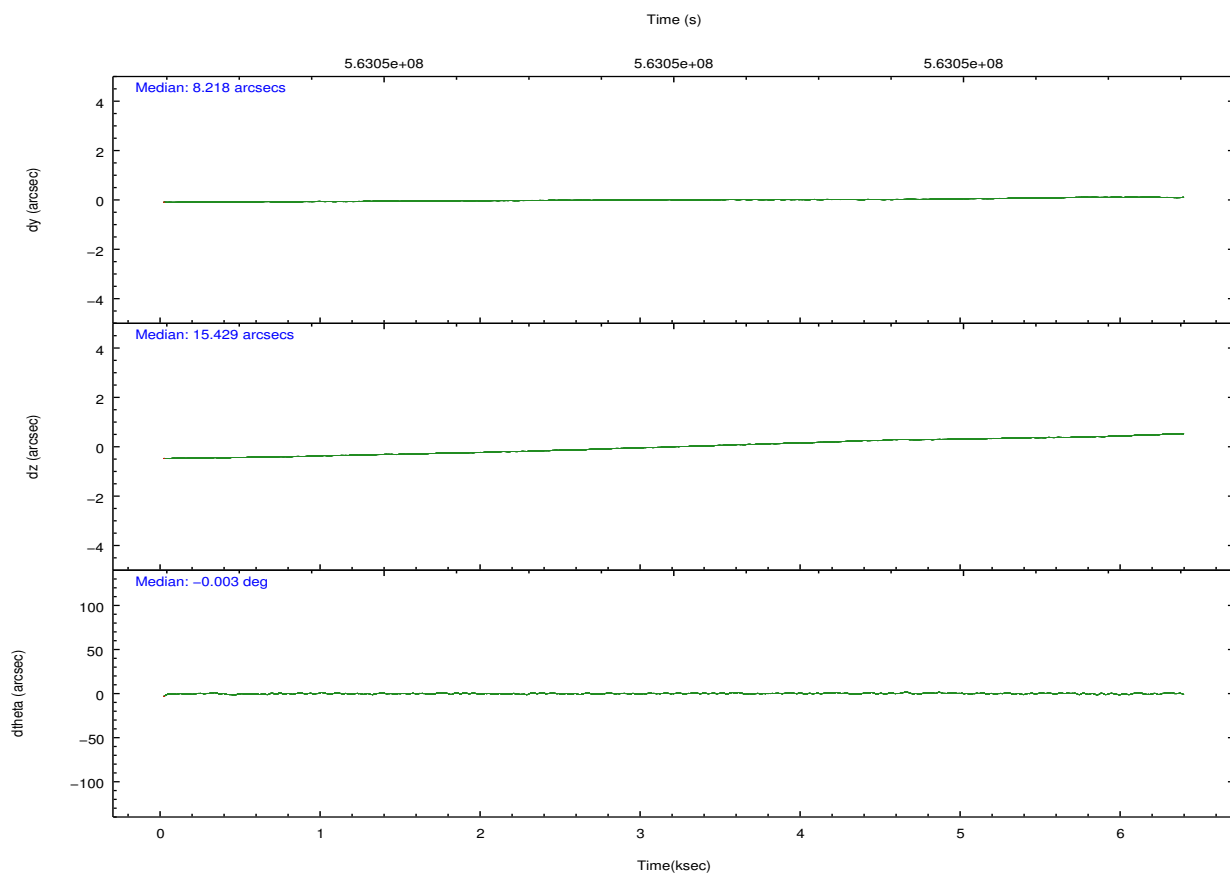
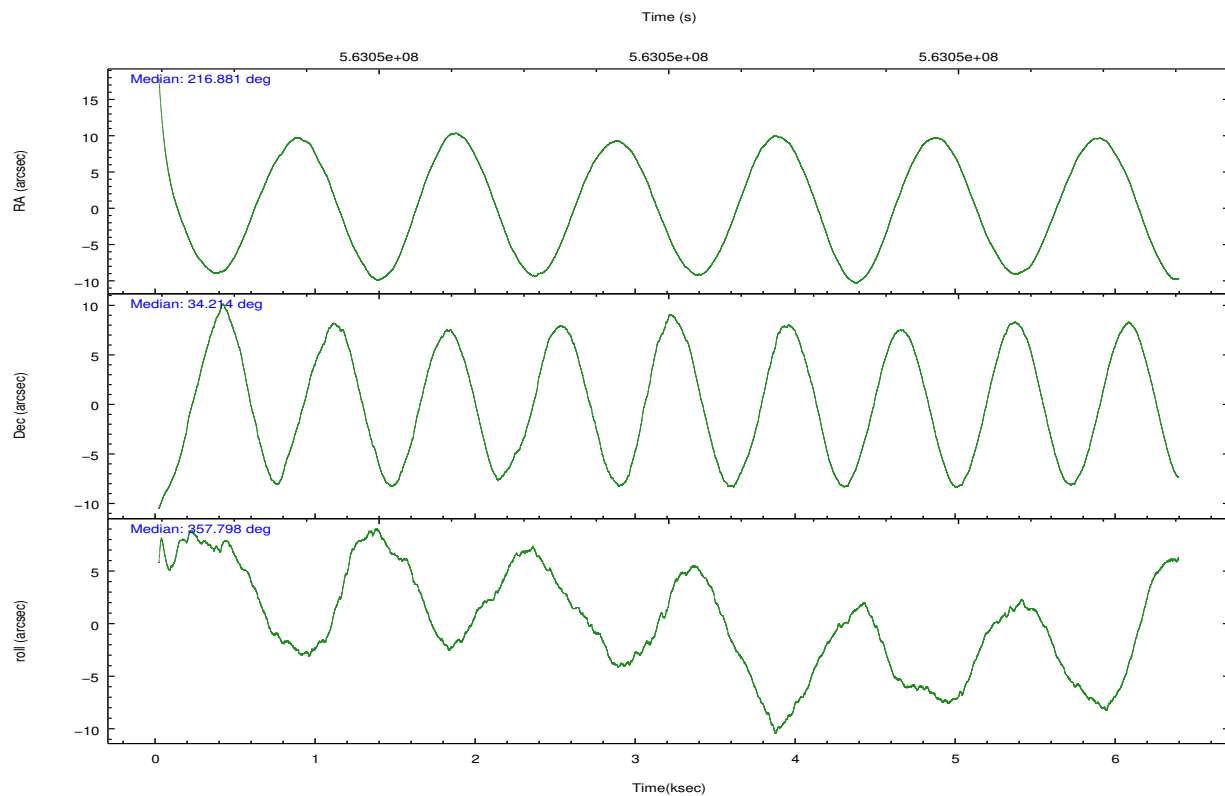
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	29146	31059	33320	33305	34425	44455	grade 0 events	1322	1484	1388	1339	1311	1689
rejected events	25369	26716	29513	29578	30439	25038		4%	4%	4%	4%	3%	3%
rejected %	87%	86%	88%	88%	88%	56%	grade 1 events	21	20	24	15	6	49
								0%	0%	0%	0%	0%	0%
							grade 2 events	907	1130	880	874	904	4051
								3%	3%	2%	2%	2%	9%
							grade 3 events	379	371	405	377	367	1494
								1%	1%	1%	1%	1%	3%
							grade 4 events	347	402	403	355	366	1470
								1%	1%	1%	1%	1%	3%
							grade 5 events	1429	1507	1370	1687	1621	4250
								4%	4%	4%	5%	4%	9%
							grade 6 events	826	962	737	786	1038	10728
								2%	3%	2%	2%	3%	24%
							grade 7 events	23915	25183	28113	27872	28812	20724
								82%	81%	84%	83%	83%	46%

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	216.851315	216.88073371103	CCD I2 on	Y	Y
[deg] Pointing Dec	34.201464	34.21441992640224	CCD I3 on	Y	Y
[deg] Pointing Roll	357.610031	357.8021836805157	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)	563044948.184000	563043544.20933	CCD S5 on	N	N
Observation start date	2015-11-04T17:21:20	2015-11-04T16:59:04	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	563051198.184000	563051383.9222701	On-chip summing requested	N	N
Observation end date	2015-11-04T19:05:30	2015-11-04T19:09:43	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



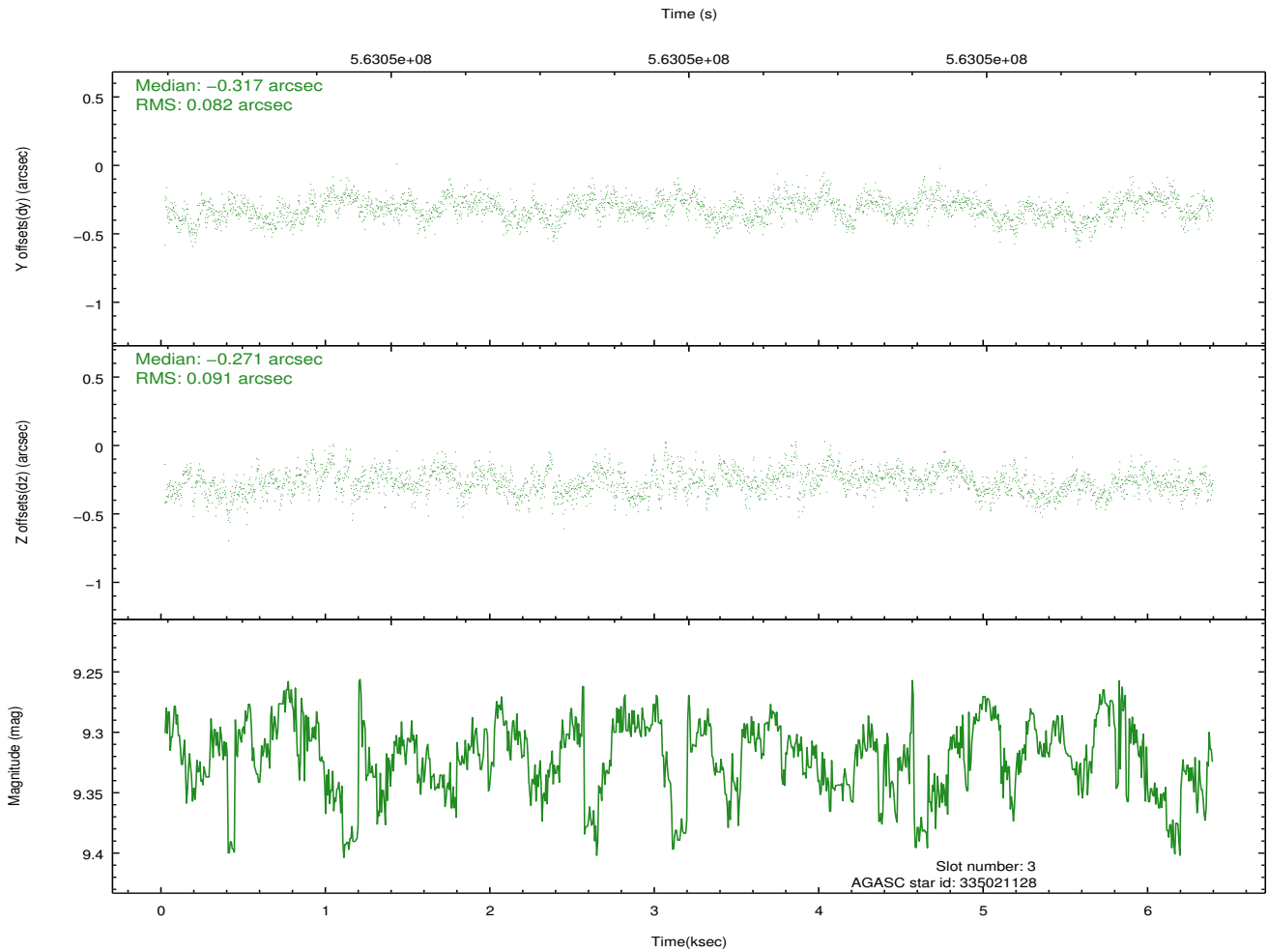
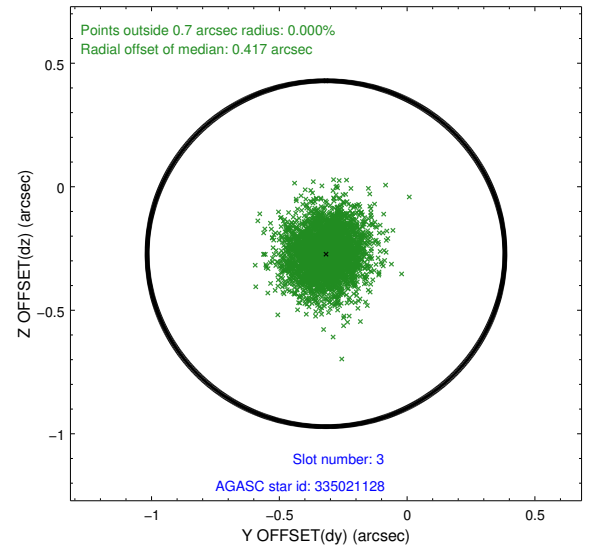
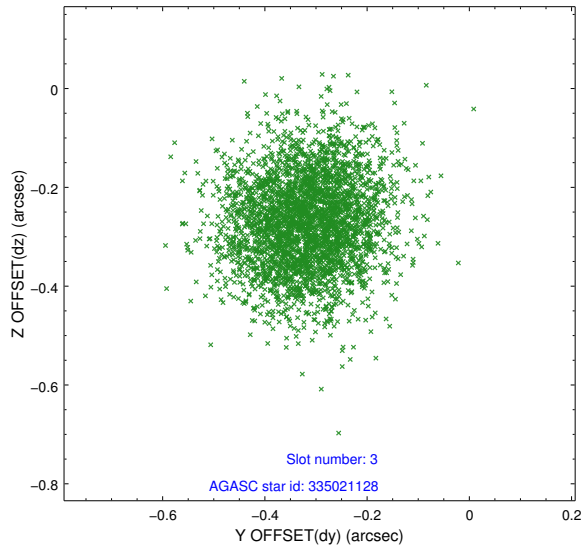


Slot Statistics

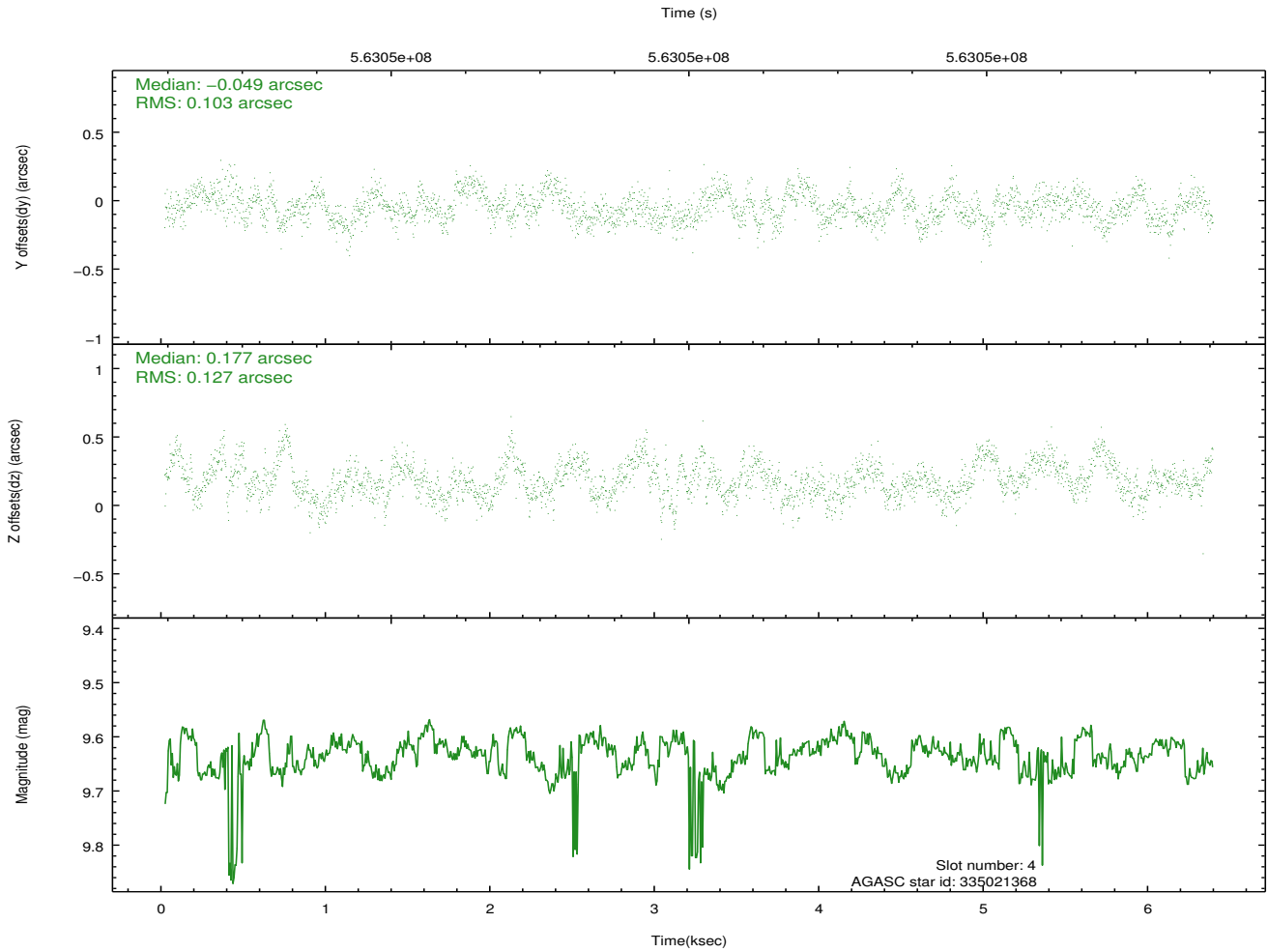
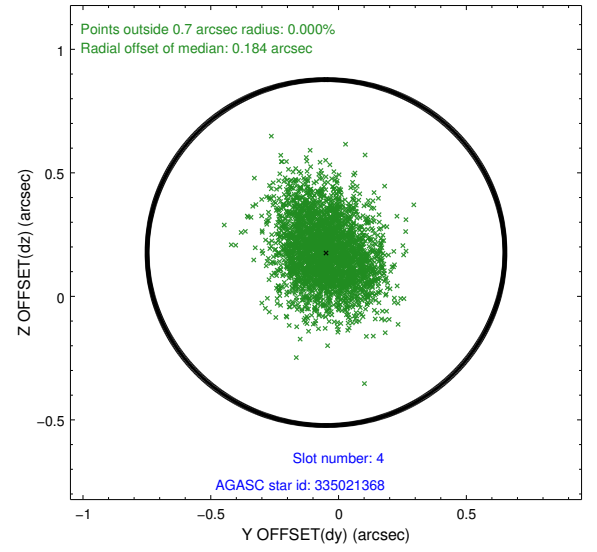
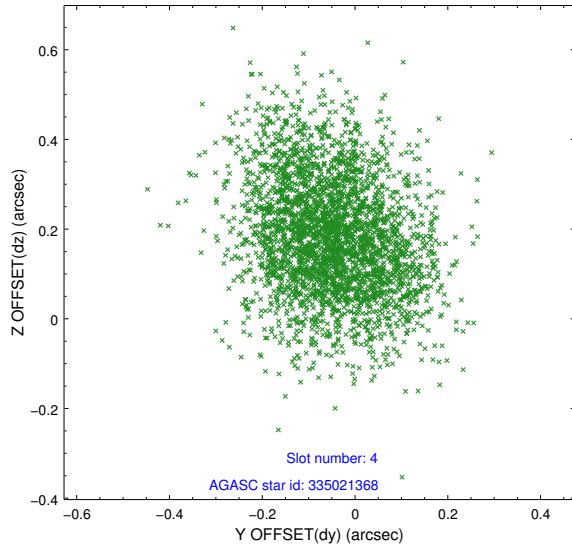
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-1	7.25	1555	0.020	-0.071	0.026	0.038	0.000000	0.000000	931.46	-839.10
1	FID		ACIS-I-4	7.19	1555	0.255	0.063	0.018	0.026	0.000000	0.000000	2152.23	1060.38
2	FID		ACIS-I-5	7.24	1555	-0.374	0.079	0.011	0.016	0.000000	0.000000	-1815.77	1059.26
3	GUIDE	used	335021128	9.32	3103	-0.317	-0.271	0.131	0.214	216.159551	34.422539	-2086.28	716.22
4	GUIDE	used	335021368	9.63	3107	-0.049	0.177	0.171	0.287	217.529643	33.934817	2063.43	-867.22
5	GUIDE	used	335025848	9.65	3110	0.269	0.163	0.144	0.233	217.530531	33.778292	2095.02	-1430.48
6	GUIDE	used	335028696	9.20	3107	-0.596	0.103	0.135	0.239	217.260519	33.844112	1276.25	-1232.03
7	GUIDE	used	335030384	8.83	3107	0.686	-0.170	0.127	0.211	216.806407	34.722197	-209.94	1867.04

2.4 Star Slots

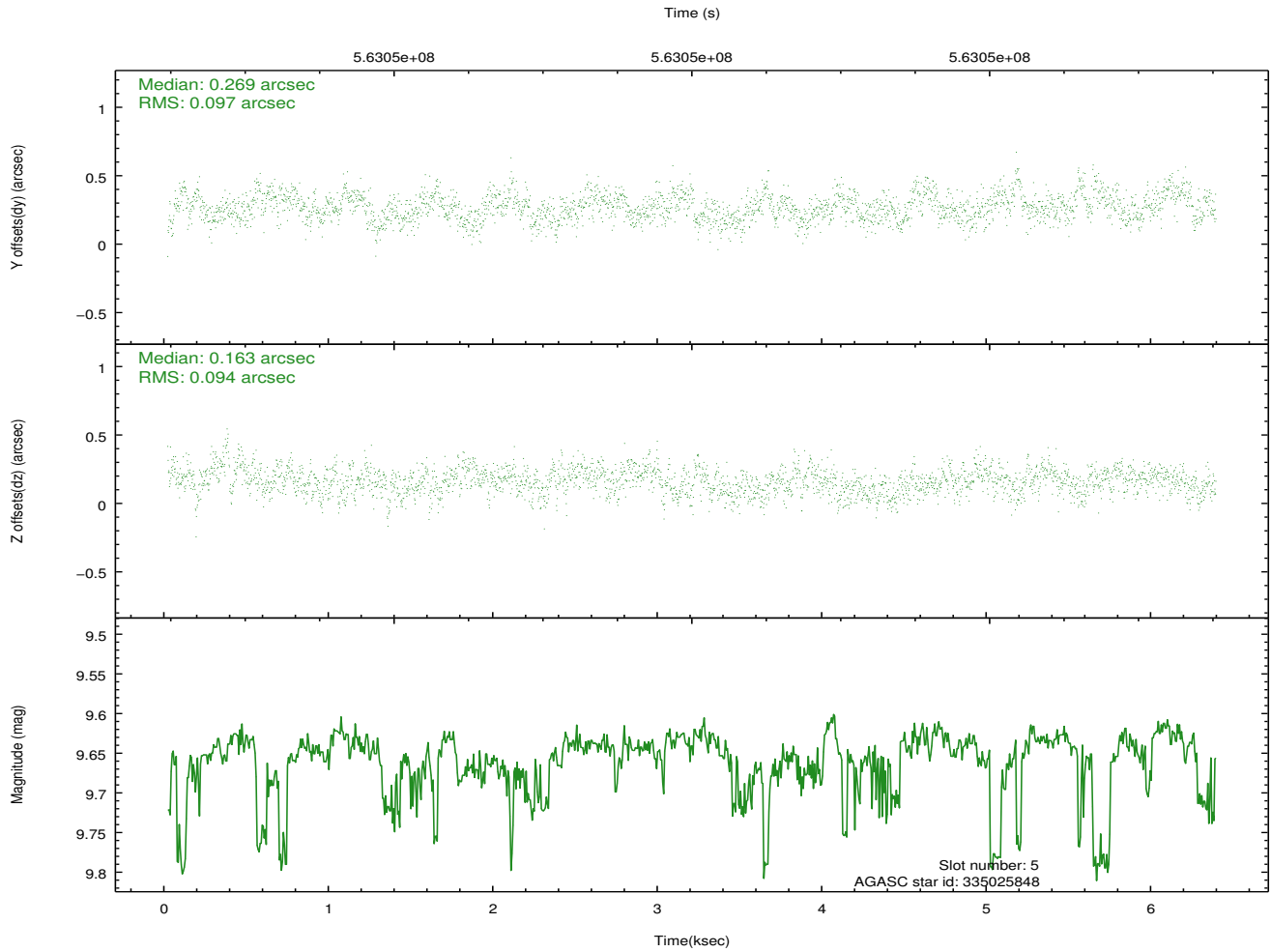
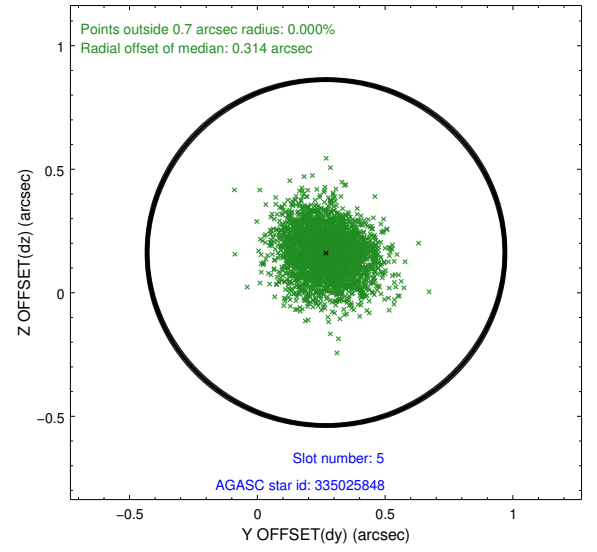
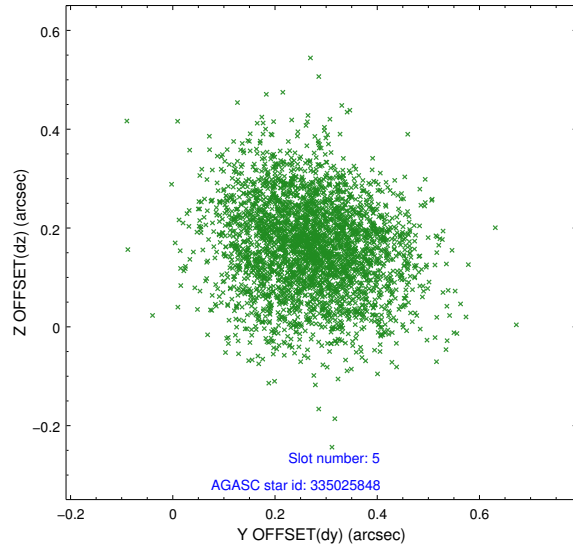
2.4.1 Slot 3



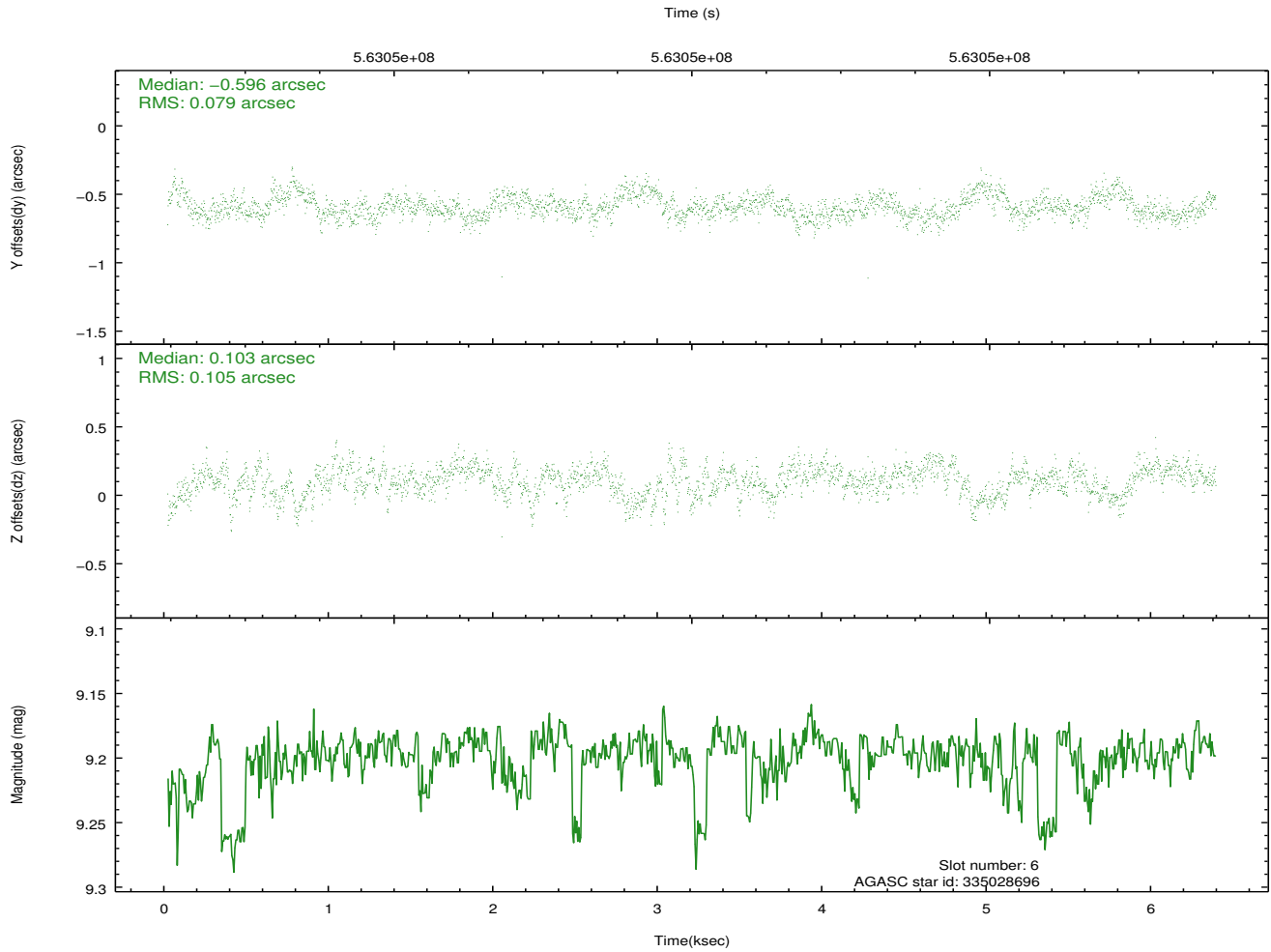
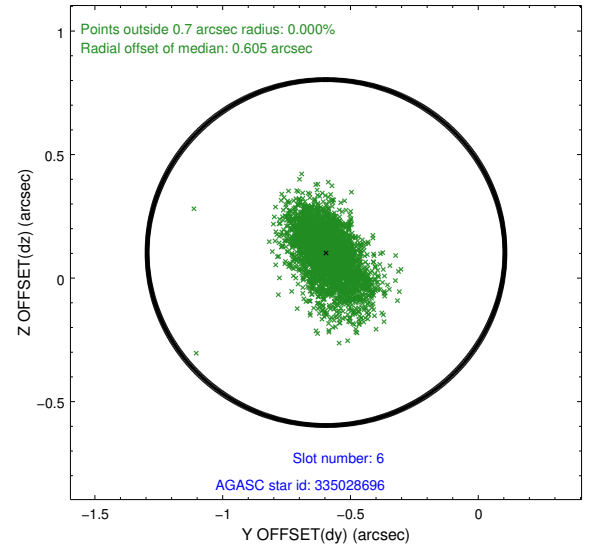
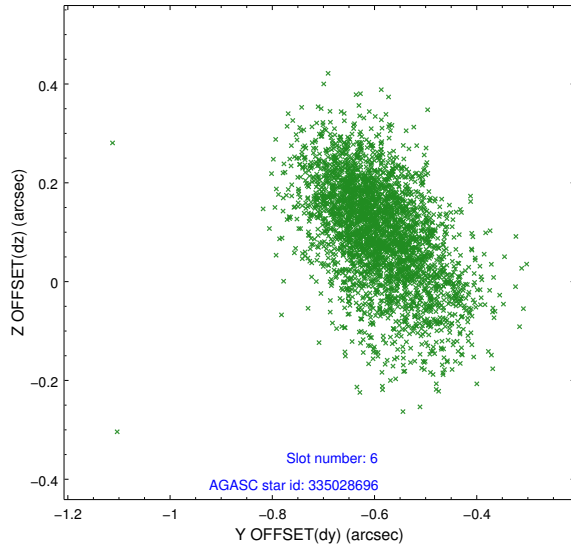
2.4.2 Slot 4



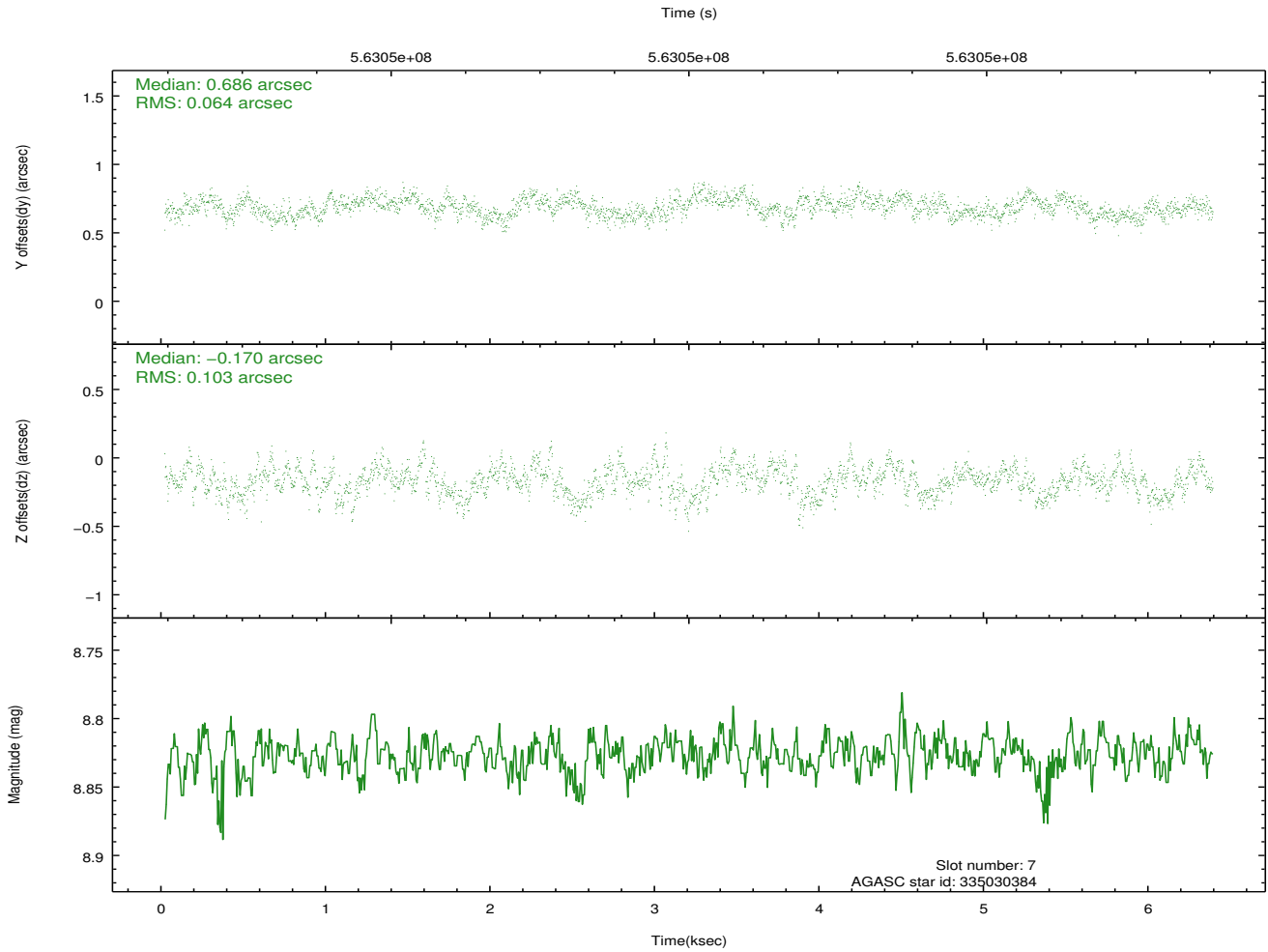
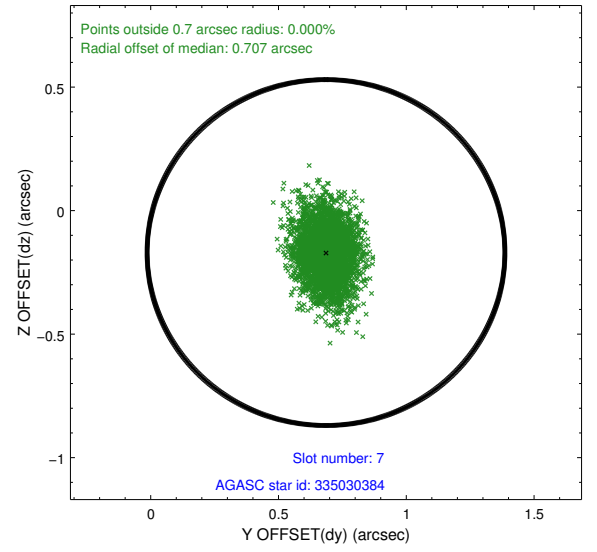
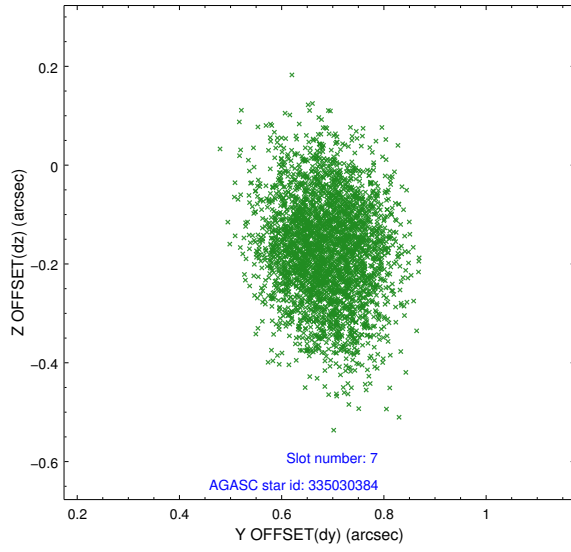
2.4.3 Slot 5



2.4.4 Slot 6

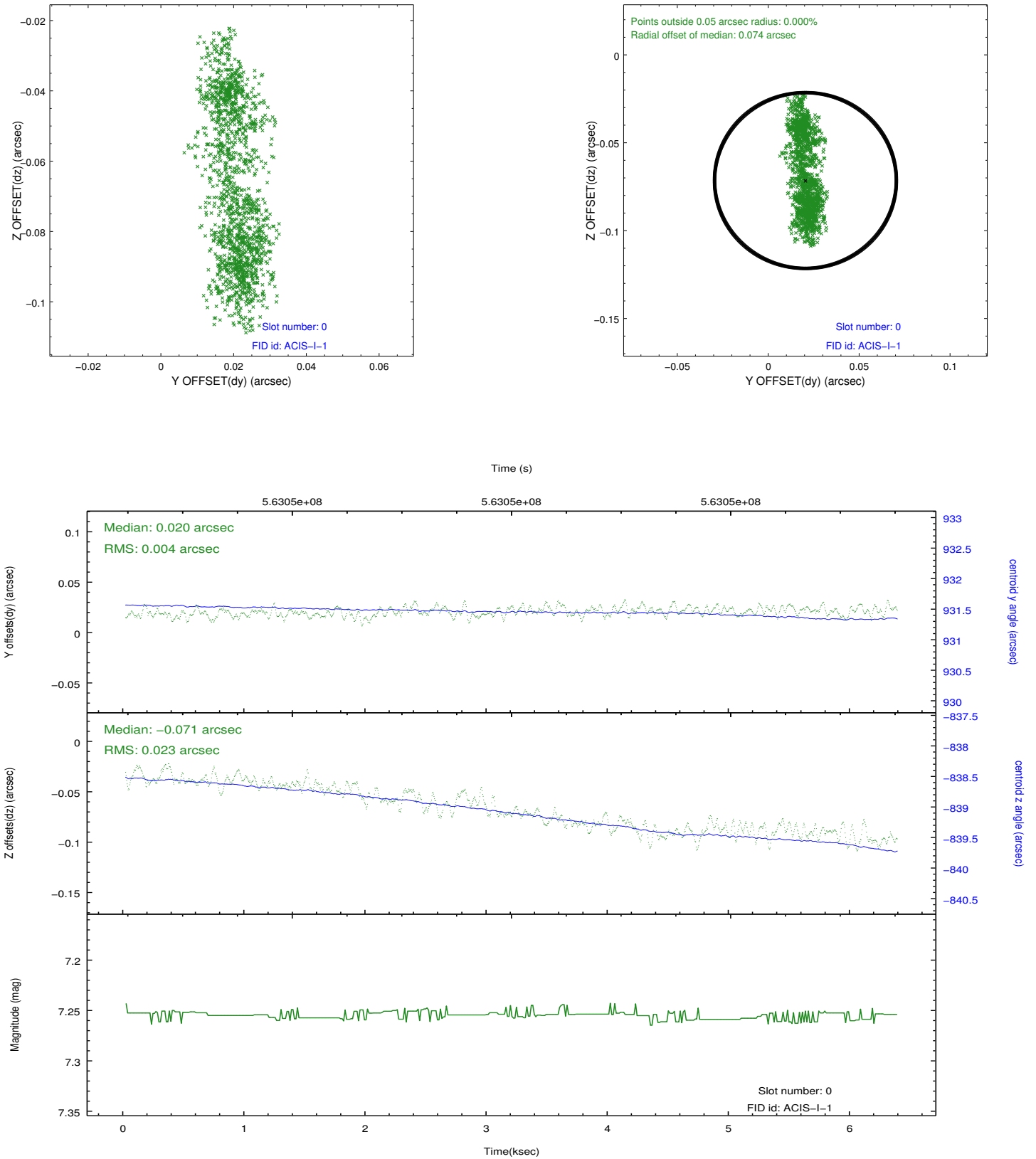


2.4.5 Slot 7

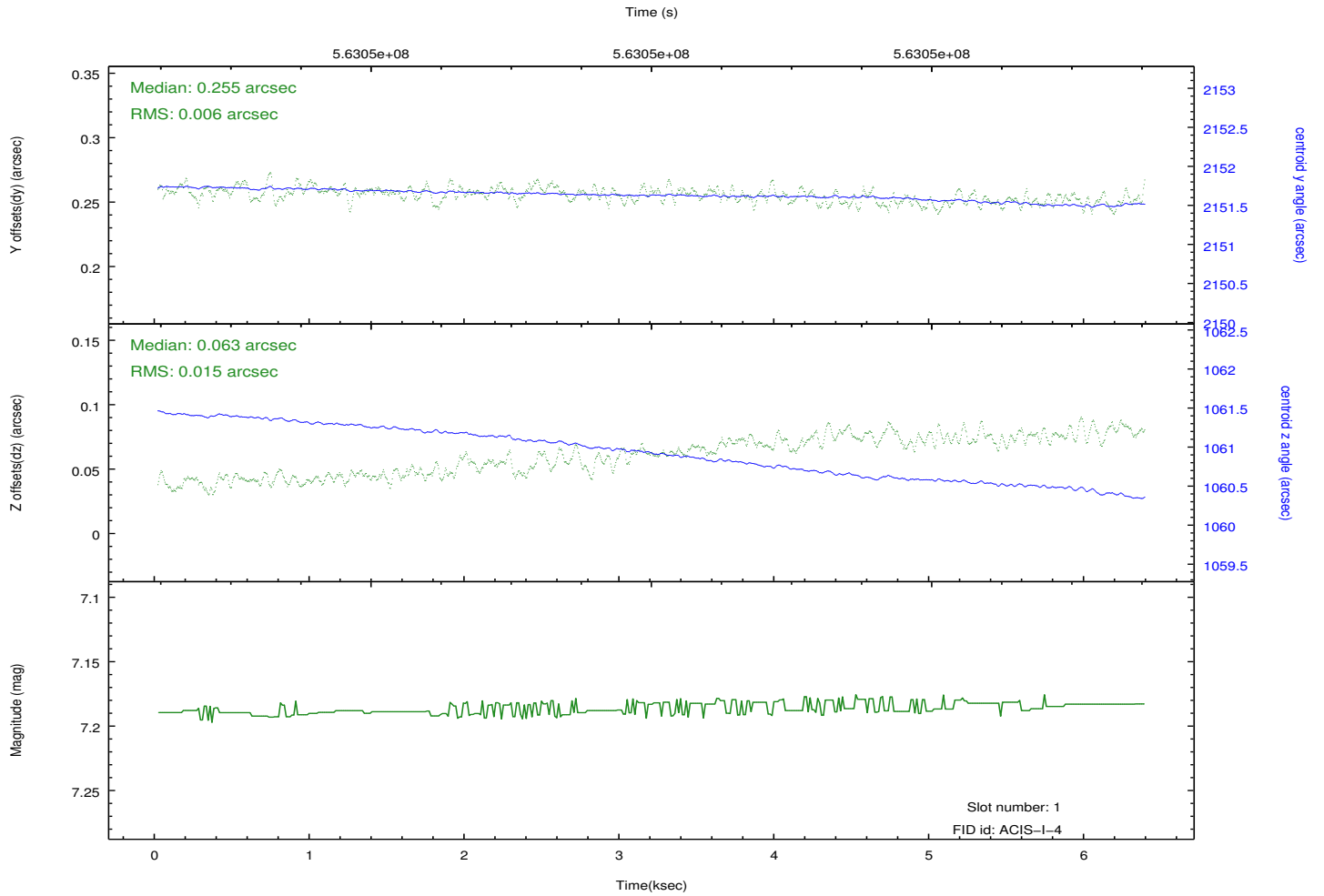
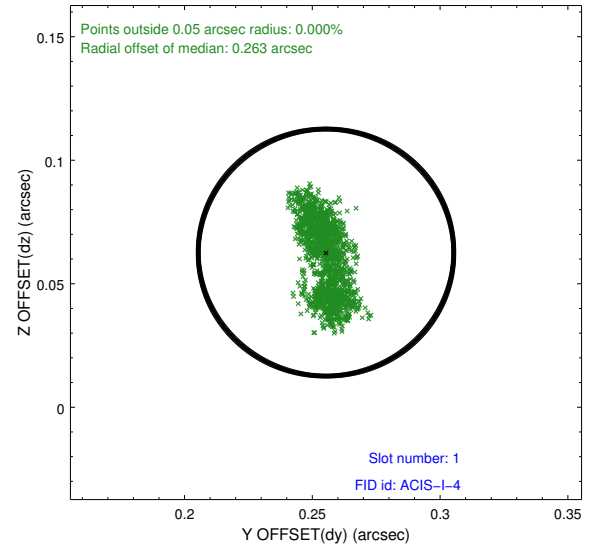
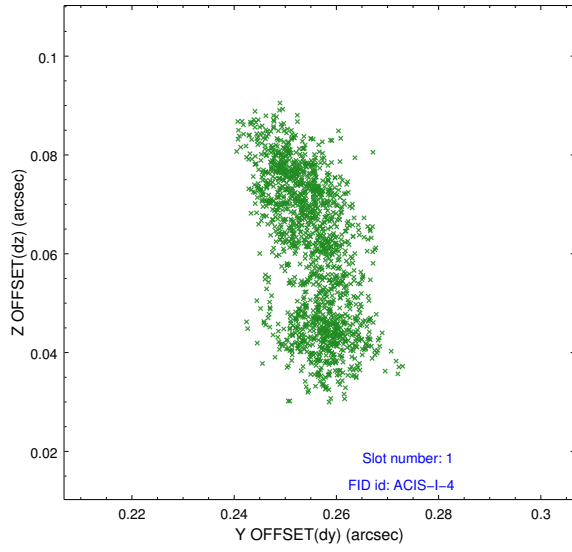


2.5 FID Slots

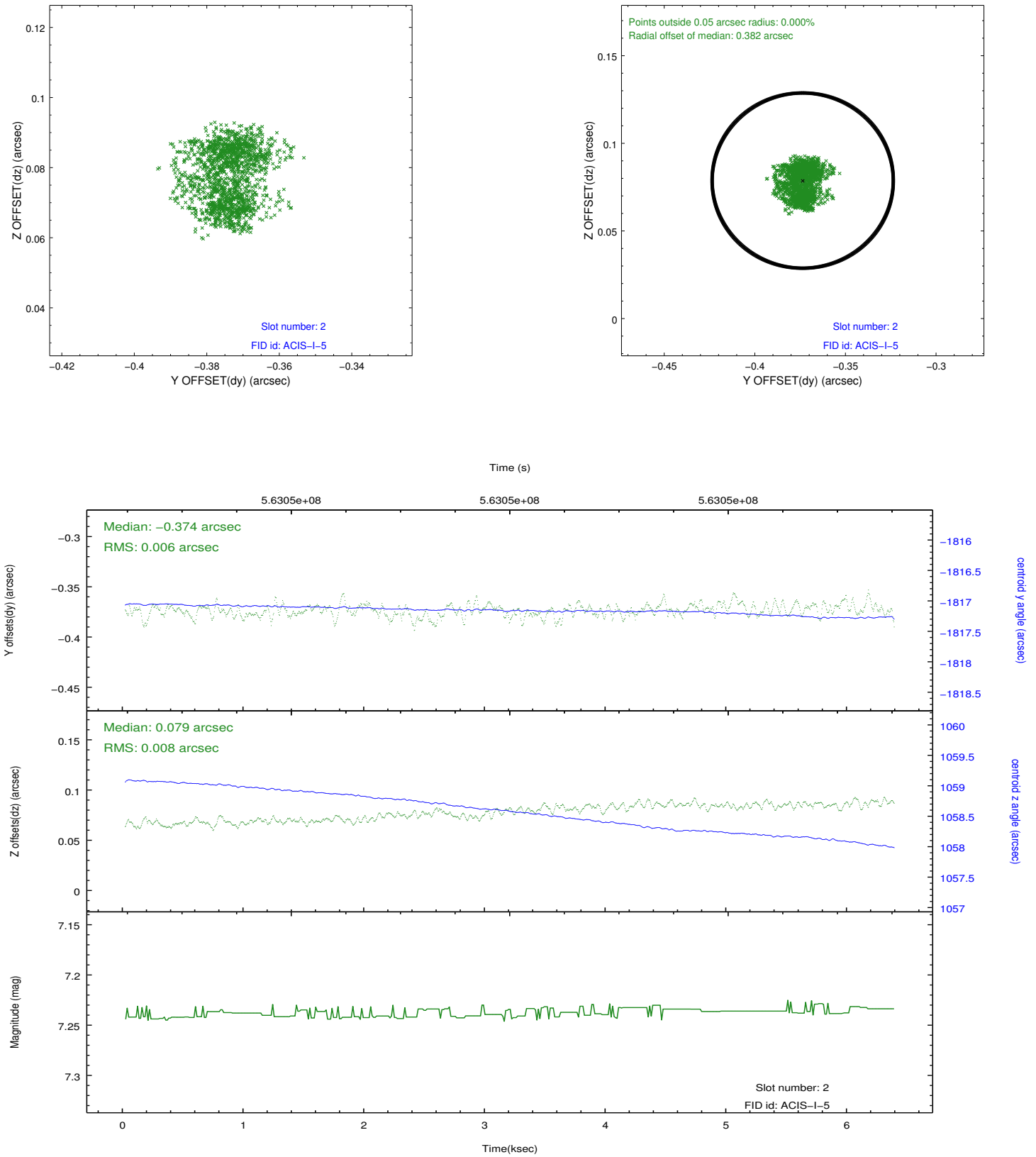
2.5.1 Slot 0



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)	2015.11.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1938508061171

A.2 Comments