

V&V Reference Report

L2 ASCDS Version : 10.7

Observation 21160 - L2 Version 1
Chandra X-Ray Center

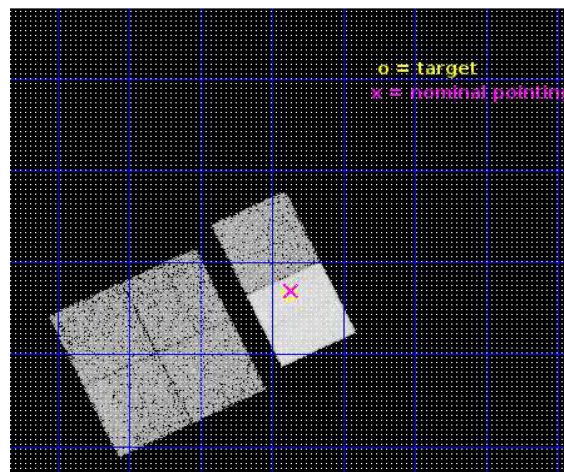
L2 Processing Date : Nov 7 2018

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1 Front

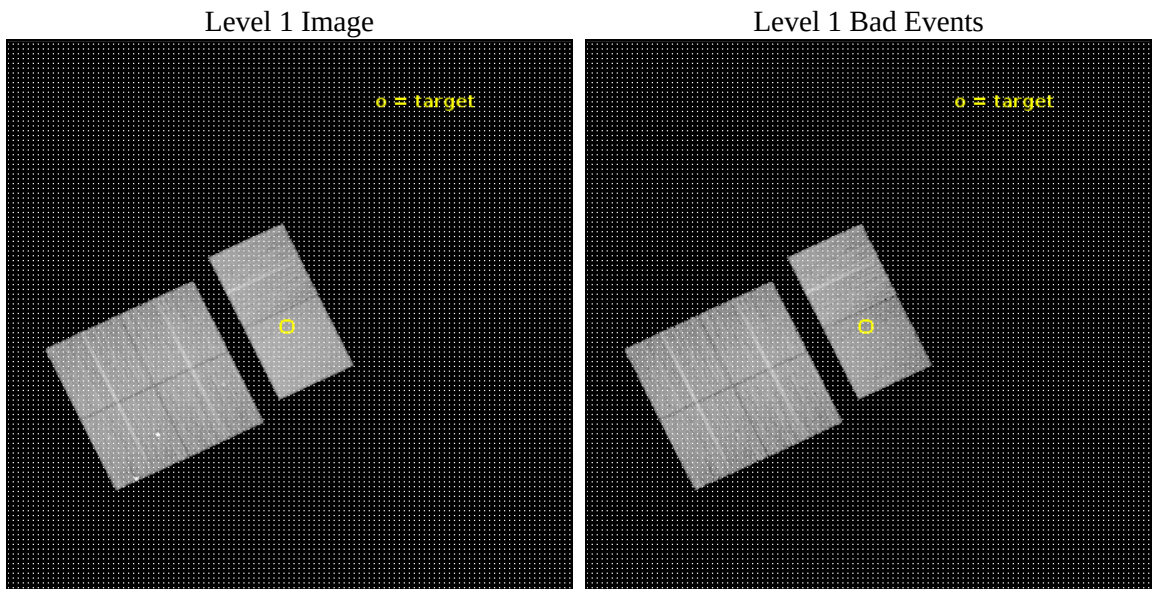
seq_num	201216	Sequence number
obs_id	21160	Observation id
title	Spin-down, dynamos and habitability: Chandra/K2 exploration of nearby M dwarfs	Proposal title
observer	Beate Stelzer	Principal investigator
object	EPIC 201717791	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	177.467917	Observer's specified target RA [deg]
dec_targ	3.943028	Observer's specified target Dec [deg]
ra_nom	177.46559352486	Nominal RA [deg]
dec_nom	3.9488851021669	Nominal Dec [deg]
roll_nom	64.31983414234	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15945.600237608	Sum of GTIs [s]
livetime	15743.687446112	Livetime [s]
ontime0	15942.359267354	Sum of GTIs [s]
ontime1	15942.359217286	Sum of GTIs [s]
ontime2	15942.359257221	Sum of GTIs [s]
ontime3	15945.600237608	Sum of GTIs [s]
ontime6	15945.600237608	Sum of GTIs [s]
ontime7	15945.600237608	Sum of GTIs [s]
l2events	120164	Number of level 2 events



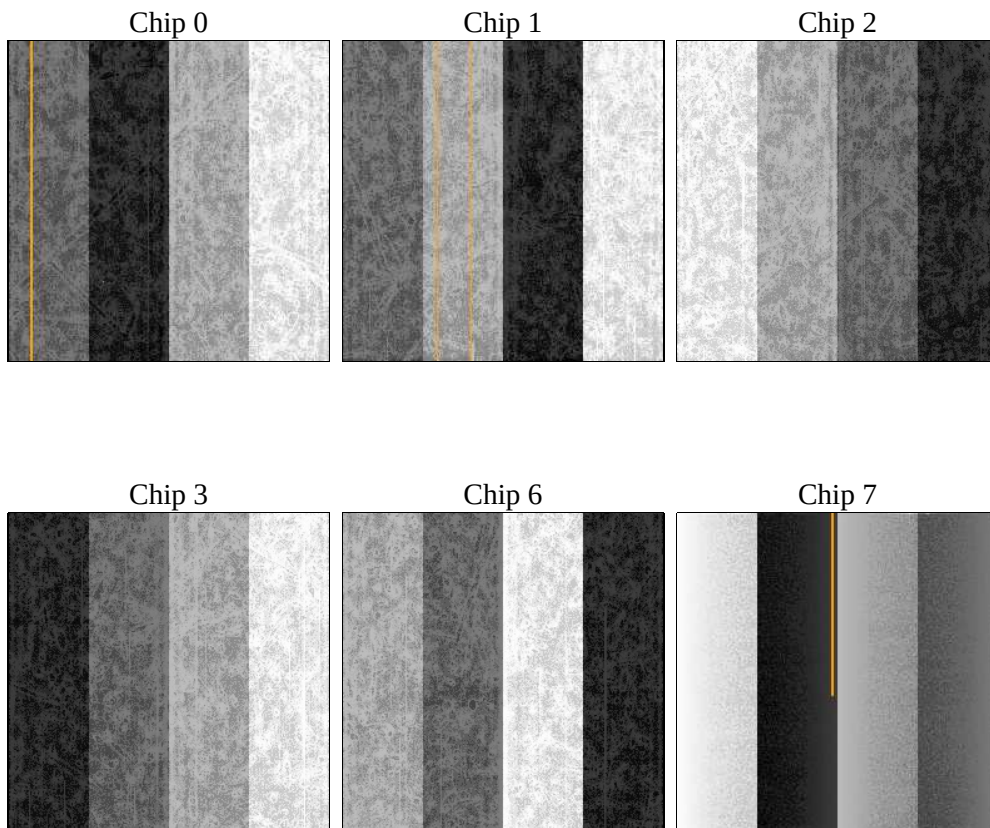
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	16000.000000	[s] Scheduled observation exposure time
ascdsver	10.7	Processing system revision	ontime	15945.600237608	Sum of GTIs [s]
caldsver	4.8.0.1	 	ontime0	15942.359267354	Sum of GTIs [s]
date	2018-11-07T22:24:27	Date and time of file creation	ontime1	15942.359217286	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	15942.359257221	Sum of GTIs [s]
			ontime3	15945.600237608	Sum of GTIs [s]
			ontime6	15945.600237608	Sum of GTIs [s]
			ontime7	15945.600237608	Sum of GTIs [s]
			l1events	756727	Number of level 1 events

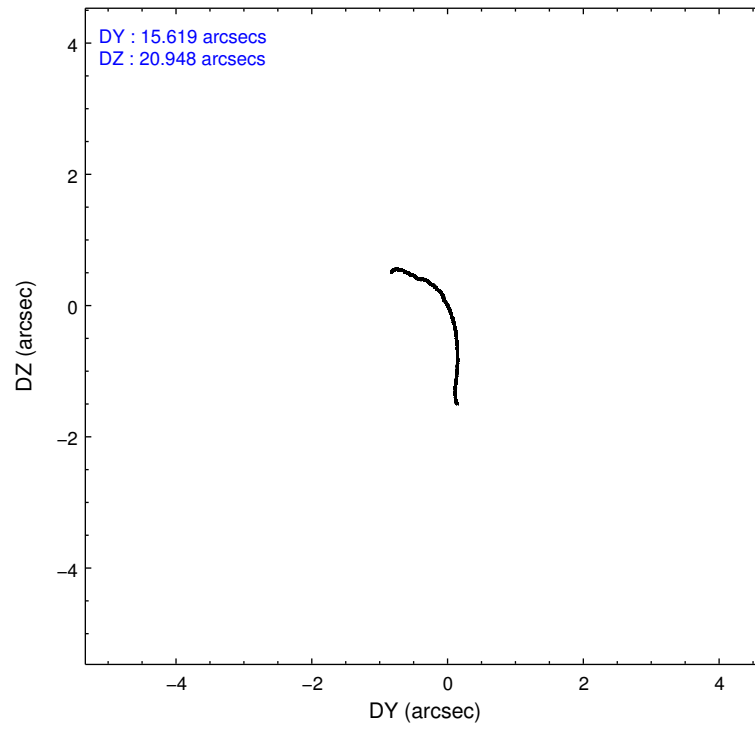
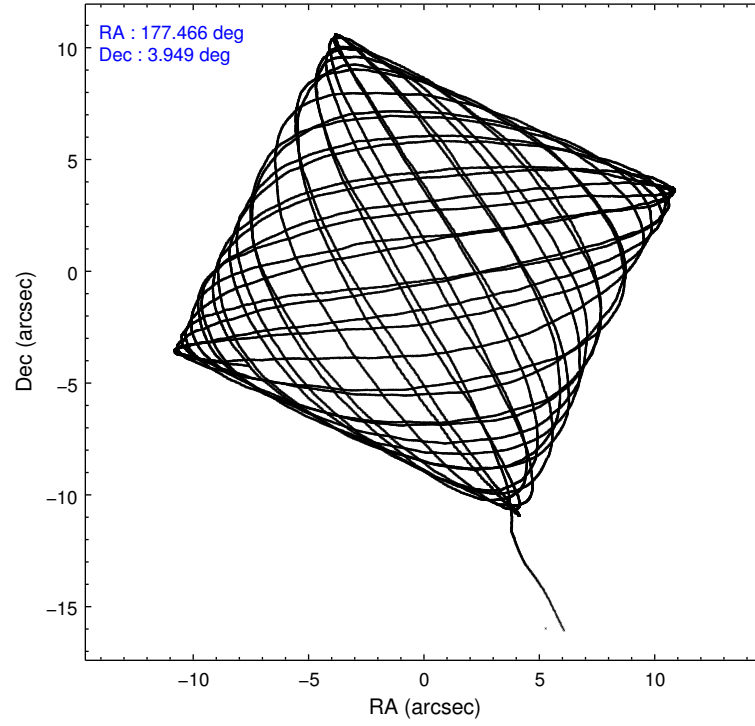
2.1.4 Events

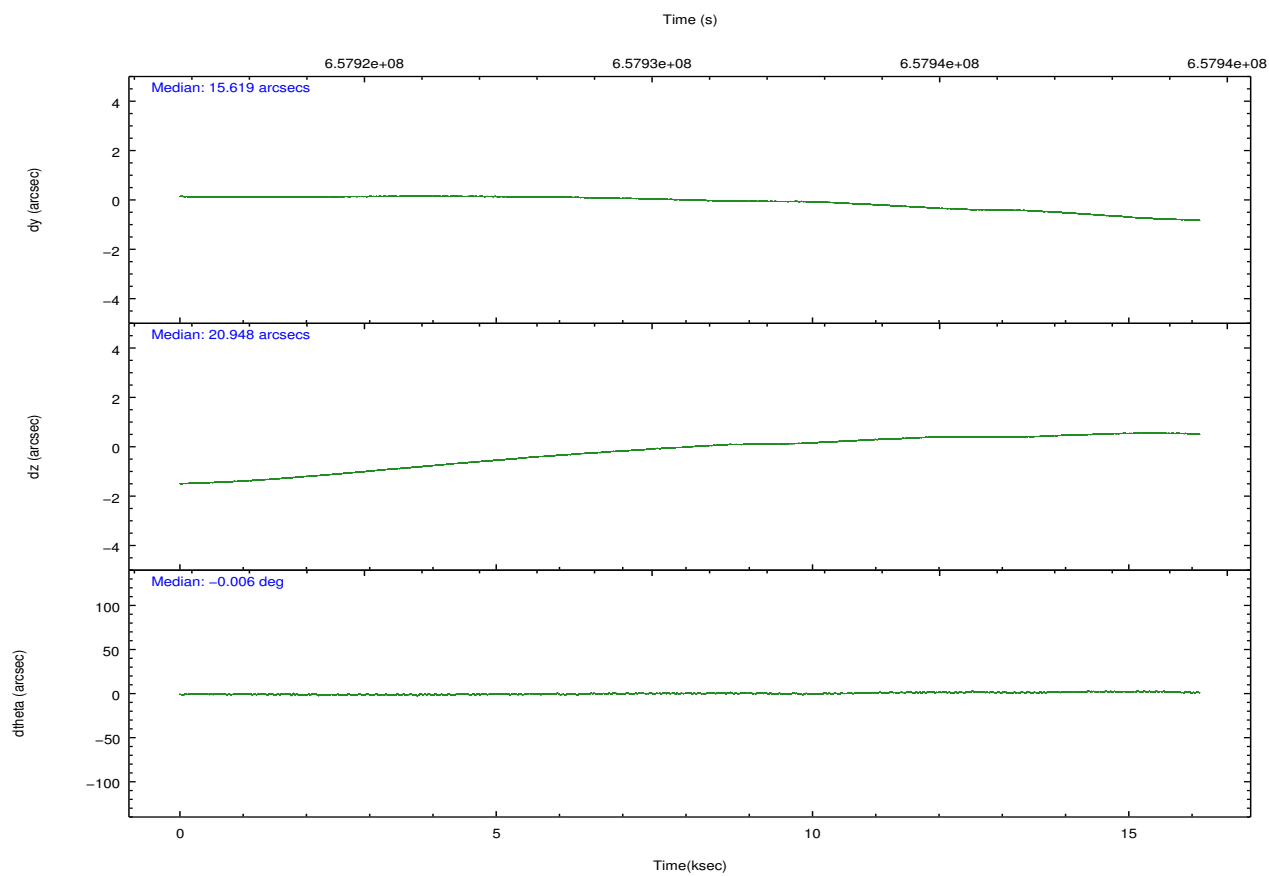
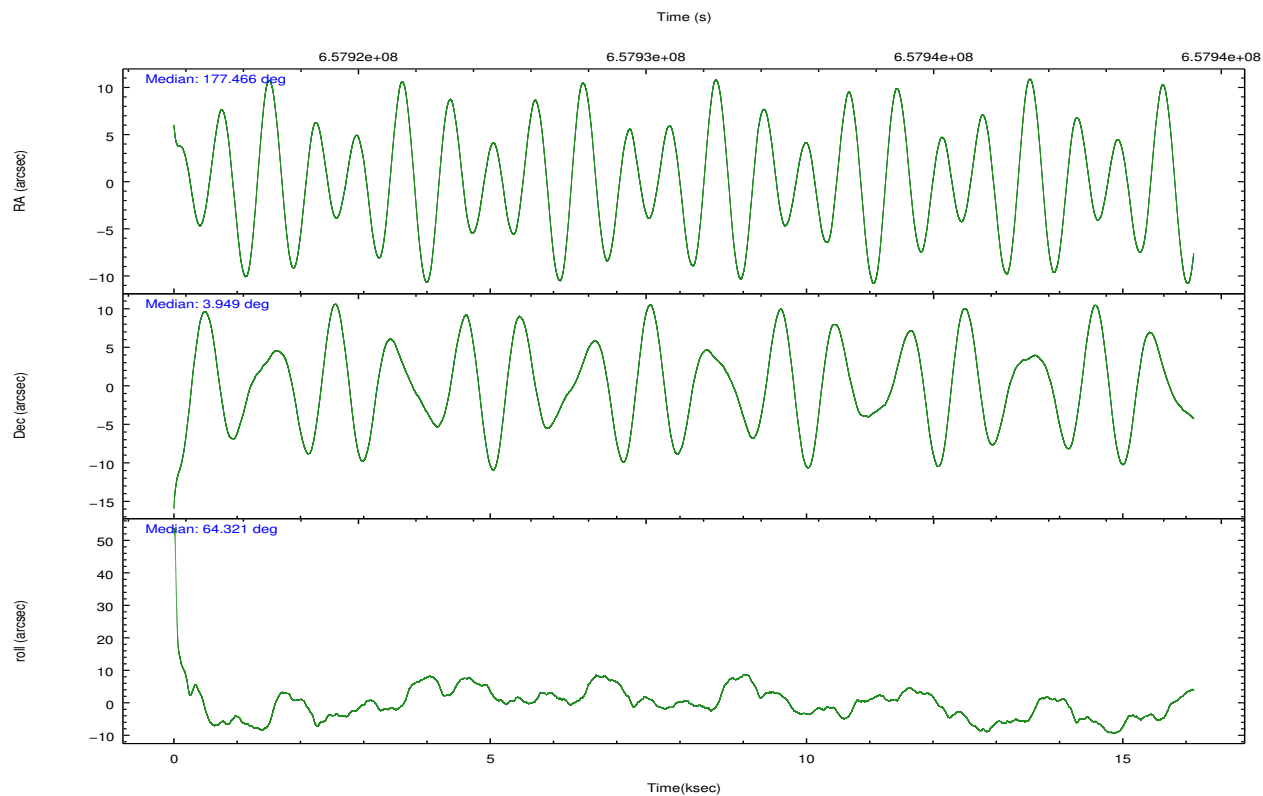
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	113948	122328	122846	116816	127990	152799	grade 0 events	4301	12574	4225	4556	4104	5711
rejected events	100731	99722	110626	104351	114488	86240		3%	10%	3%	3%	3%	3%
rejected %	88%	81%	90%	89%	89%	56%	grade 1 events	67	100	64	87	52	247
								0%	0%	0%	0%	0%	0%
							grade 2 events	3554	4073	2855	2612	3481	14133
								3%	3%	2%	2%	2%	9%
							grade 3 events	1239	1304	1242	1289	1221	5218
								1%	1%	1%	1%	0%	3%
							grade 4 events	1208	1236	1246	1319	1188	5036
								1%	1%	1%	1%	0%	3%
							grade 5 events	5223	4876	4511	5385	5244	14644
								4%	3%	3%	4%	4%	9%
							grade 6 events	2916	3428	2659	2699	3513	36493
								2%	2%	2%	2%	2%	23%
							grade 7 events	95440	94737	106044	98869	109187	71317
								83%	77%	86%	84%	85%	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	O1	Y
Observation mode	POINTING	POINTING	CCD I1 on	O2	Y
[deg] Pointing RA	177.468036	177.4655935248643	CCD I2 on	O3	Y
[deg] Pointing Dec	3.921564	3.948885102166912	CCD I3 on	O4	Y
[deg] Pointing Roll	64.163016	64.3198341423395	CCD S0 on	N	N
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	N	N
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1425803651734	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.01005778216563158	CCD S4 on	N	N
[s] Observation start time (MET)	657922733.184000	657921859.35311	CCD S5 on	N	N
Observation start date	2018-11-06T20:17:44	2018-11-06T20:04:19	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	657938733.184000	657939156.74164	On-chip summing requested	N	N
Observation end date	2018-11-07T00:44:24	2018-11-07T00:52:36	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



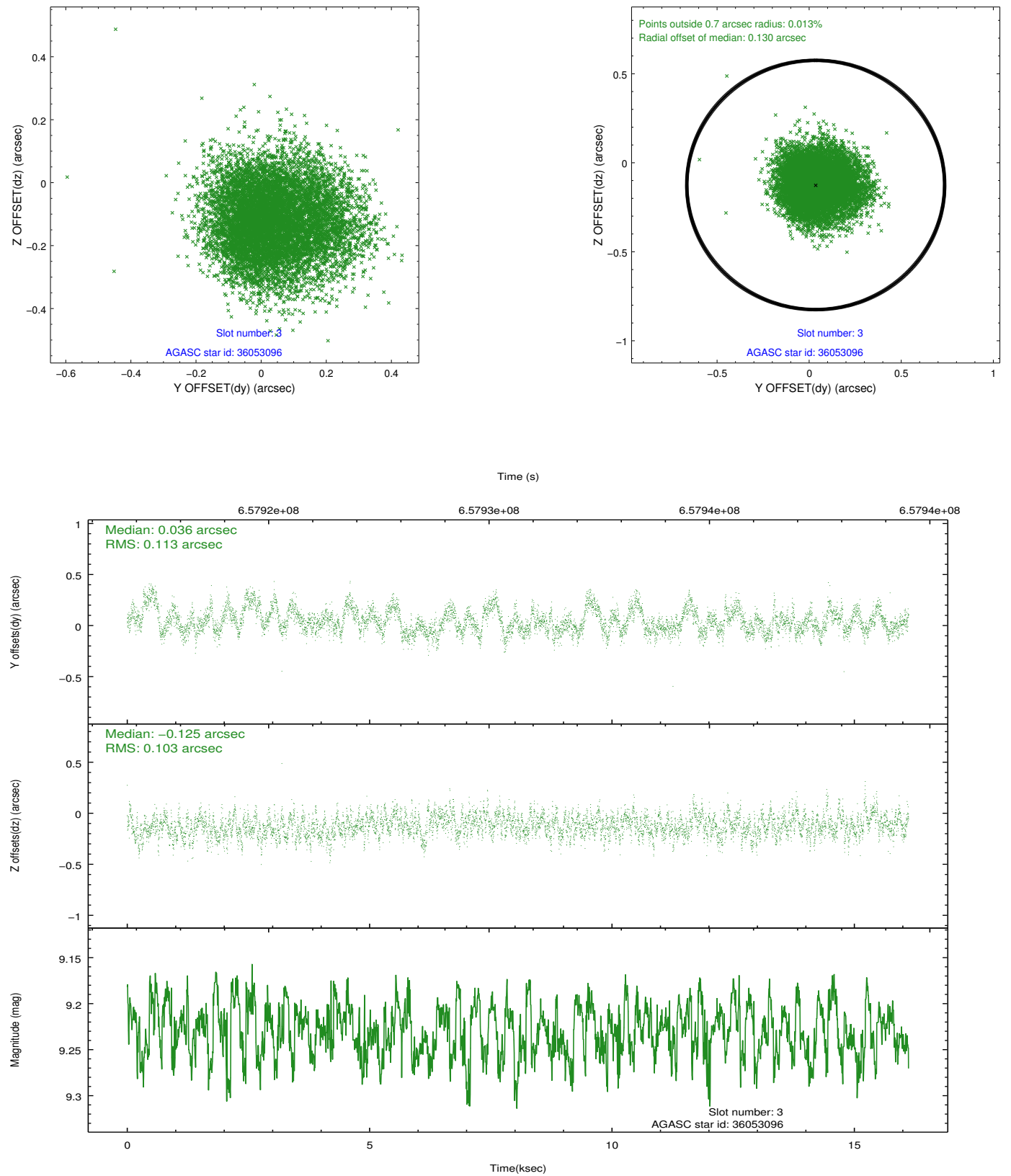


Slot Statistics

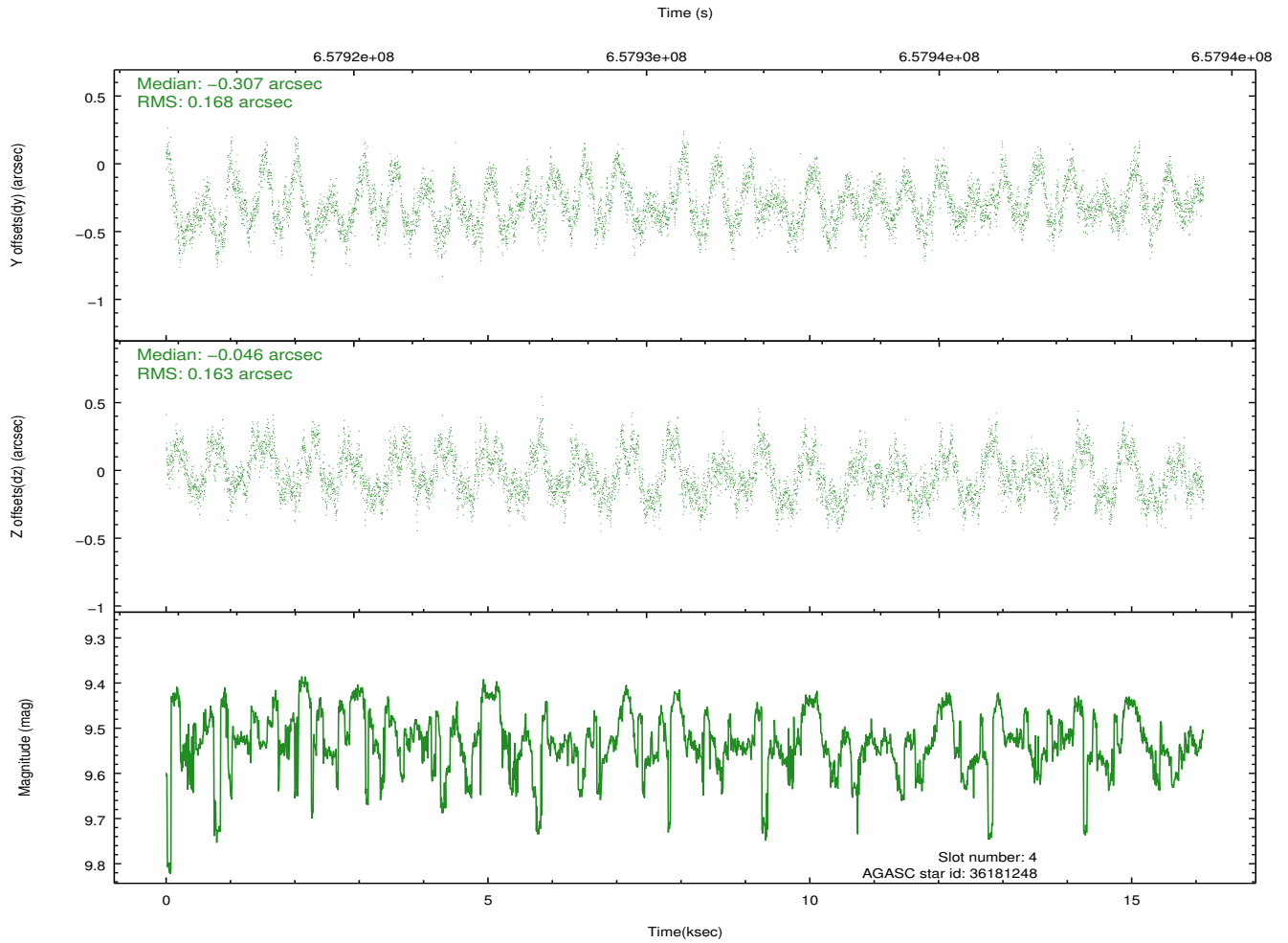
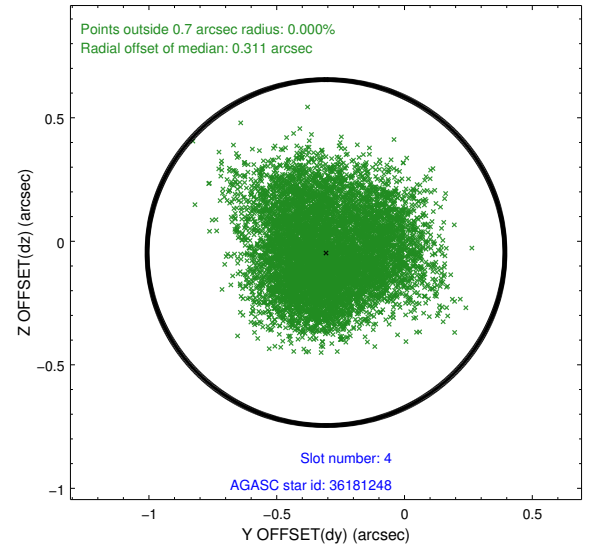
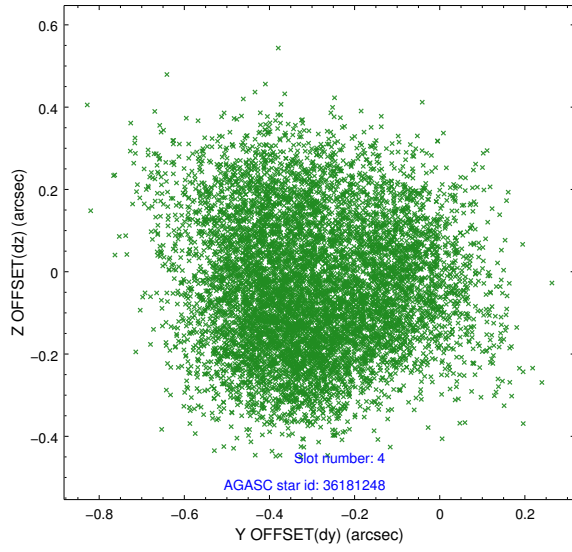
pt	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mea
0	FID		ACIS-S-2	7.13	3932	1.000	-0.376	-0.237	0.010	0.016	0.000000	0.000000	-768.79	-1742
1	FID		ACIS-S-4	7.26	3931	1.000	0.841	0.244	0.018	0.034	0.000000	0.000000	2145.50	166
2	FID		ACIS-S-5	7.23	3931	1.000	-0.495	0.001	0.014	0.023	0.000000	0.000000	-1821.48	159
3	GUIDE	used	36053096	9.23	7855	1.000	0.036	-0.125	0.163	0.263	177.485394	3.855975	-185.04	-156
4	GUIDE	used	36181248	9.53	7849	1.000	-0.307	-0.046	0.254	0.387	177.692333	4.229559	1349.19	-240
5	GUIDE	used	36182136	9.29	7843	1.000	-0.070	0.179	0.206	0.343	177.980361	3.762317	287.17	-1904
6	GUIDE	used	36183056	9.60	7845	1.000	-0.212	-0.604	0.197	0.322	177.523220	4.050900	505.90	24
7	GUIDE	used	36181832	9.03	7860	1.000	0.543	0.582	0.197	0.339	177.902996	3.260131	-1462.10	-2440

2.4 Star Slots

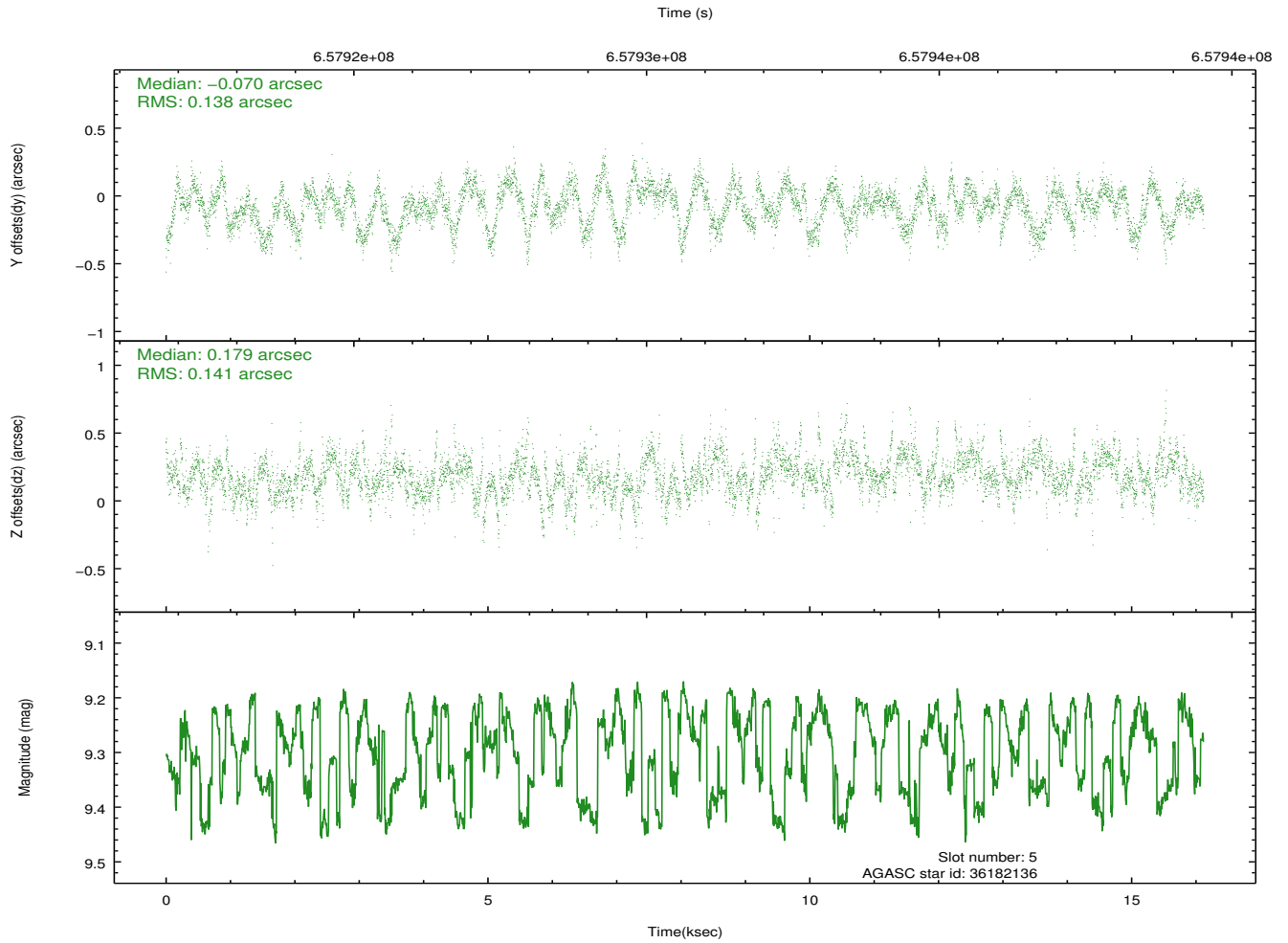
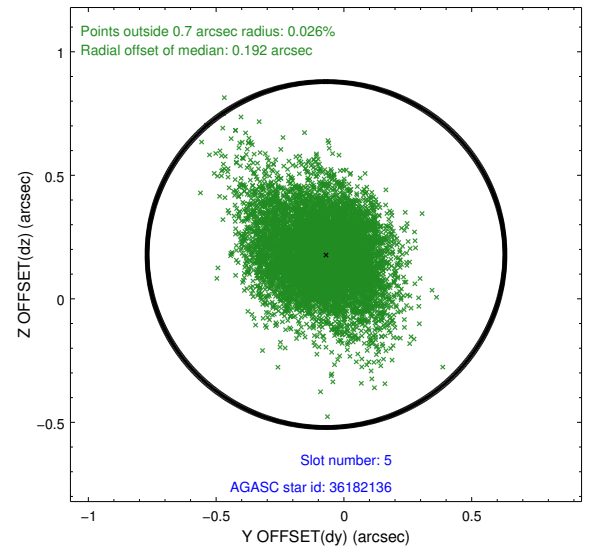
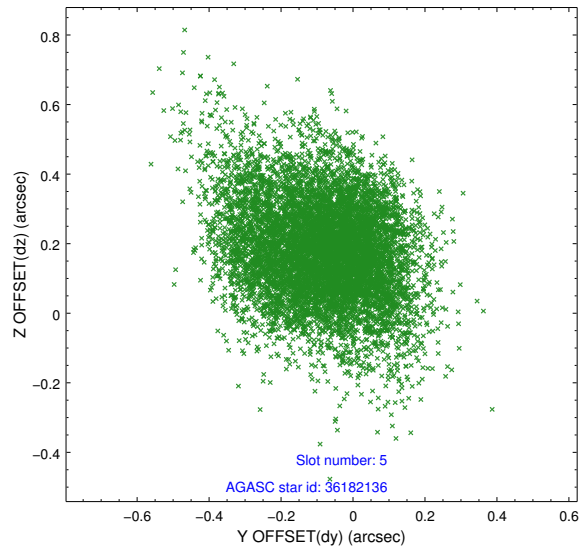
2.4.1 Slot 3



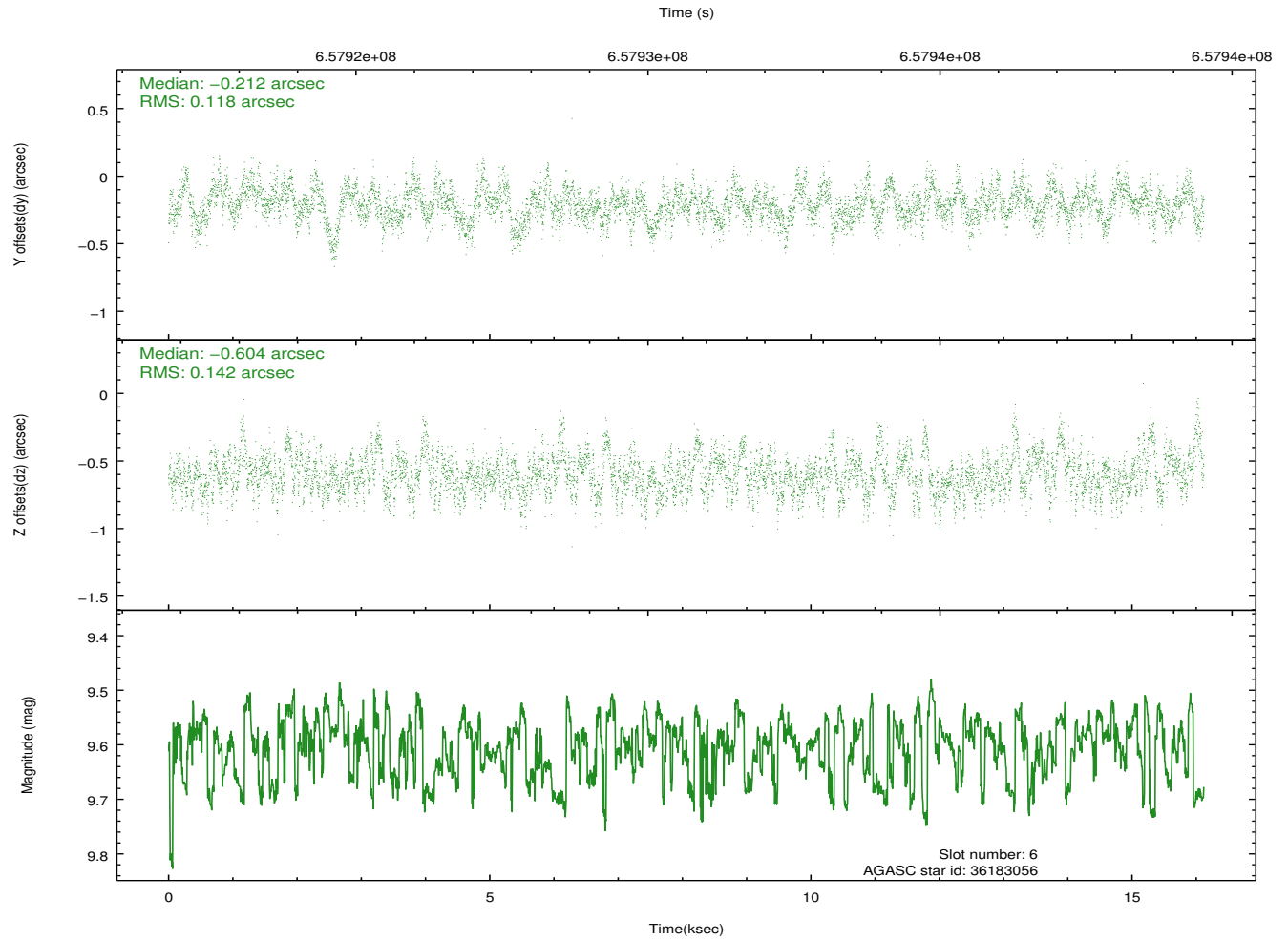
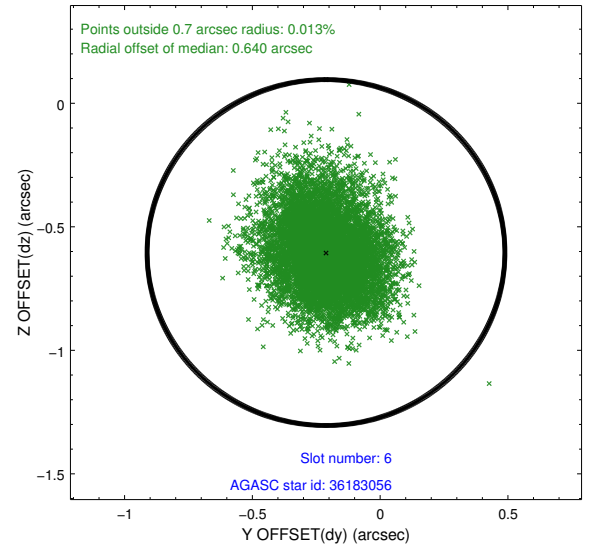
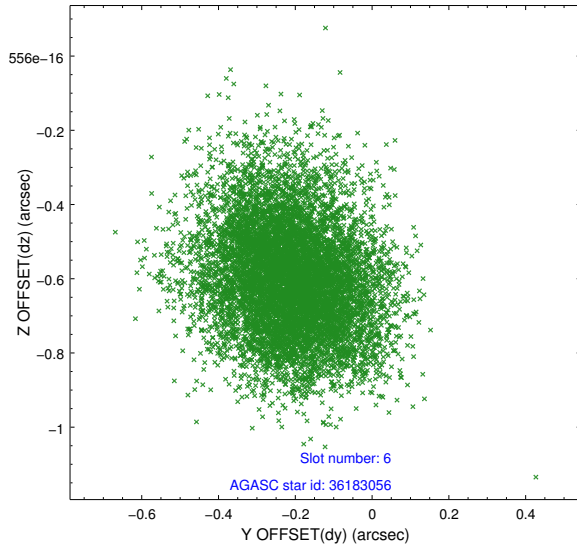
2.4.2 Slot 4



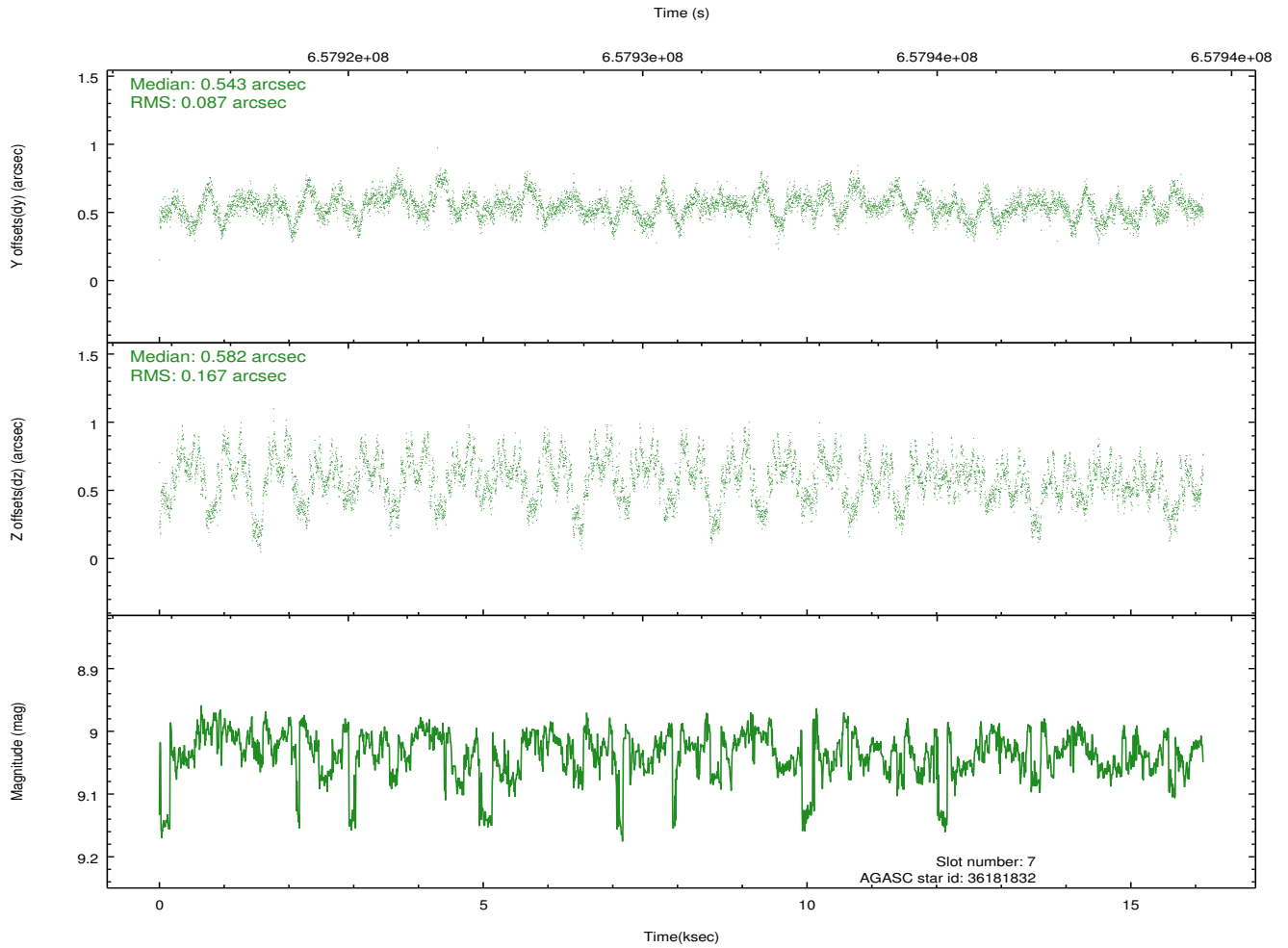
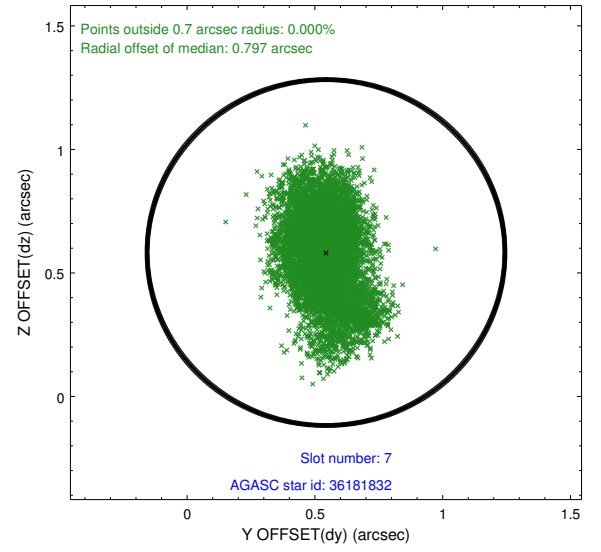
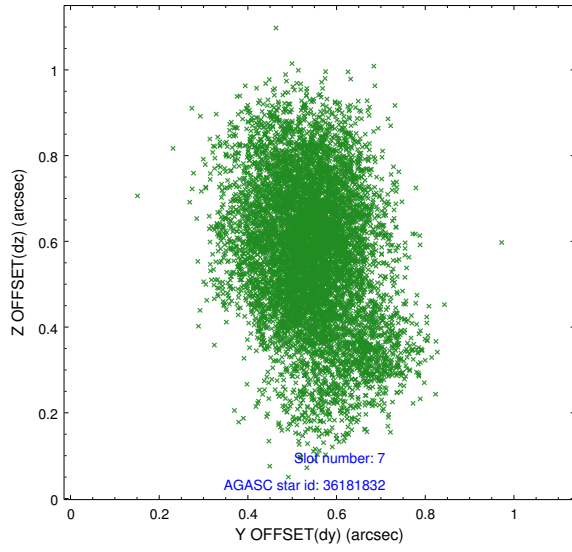
2.4.3 Slot 5



2.4.4 Slot 6

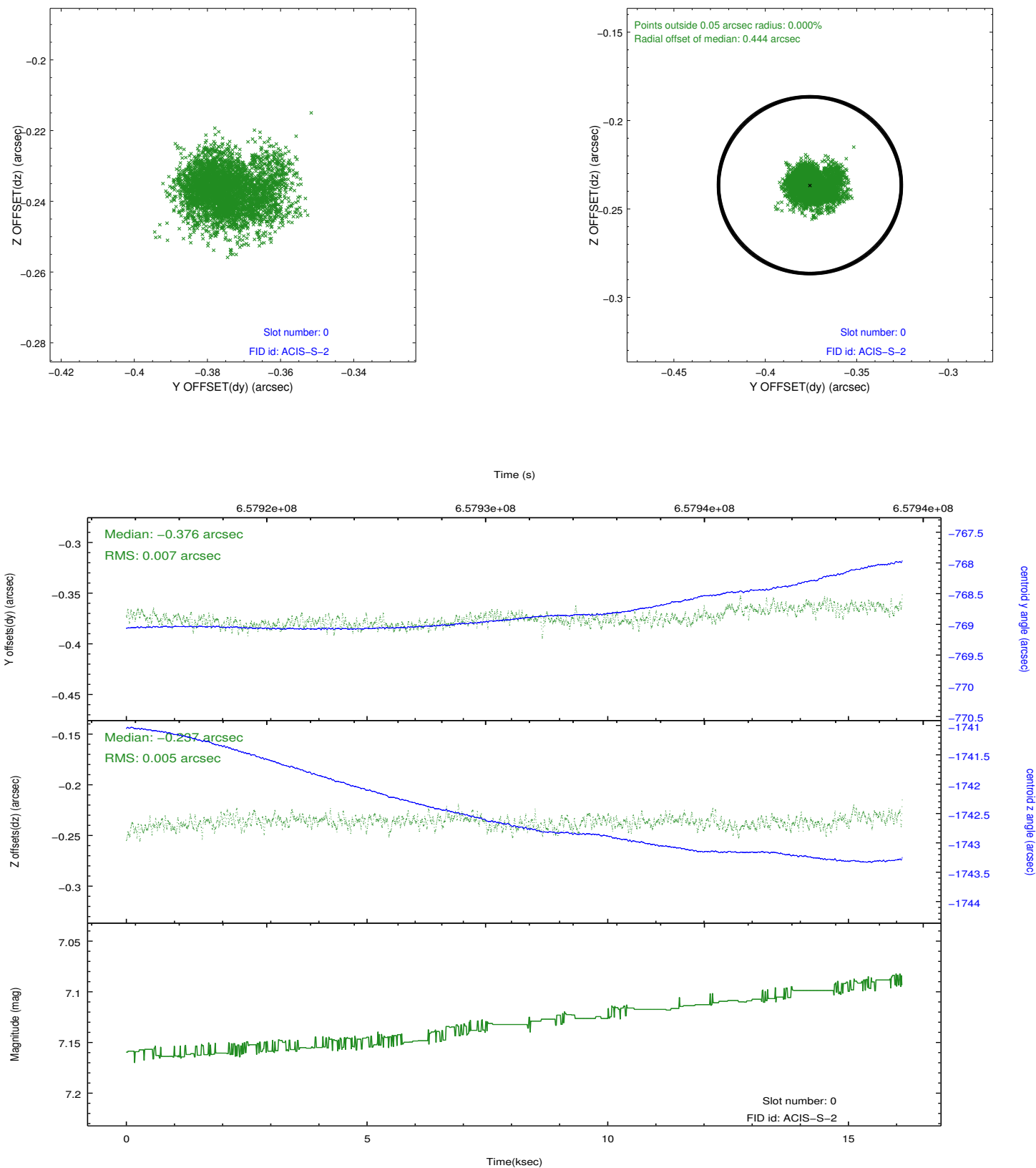


2.4.5 Slot 7

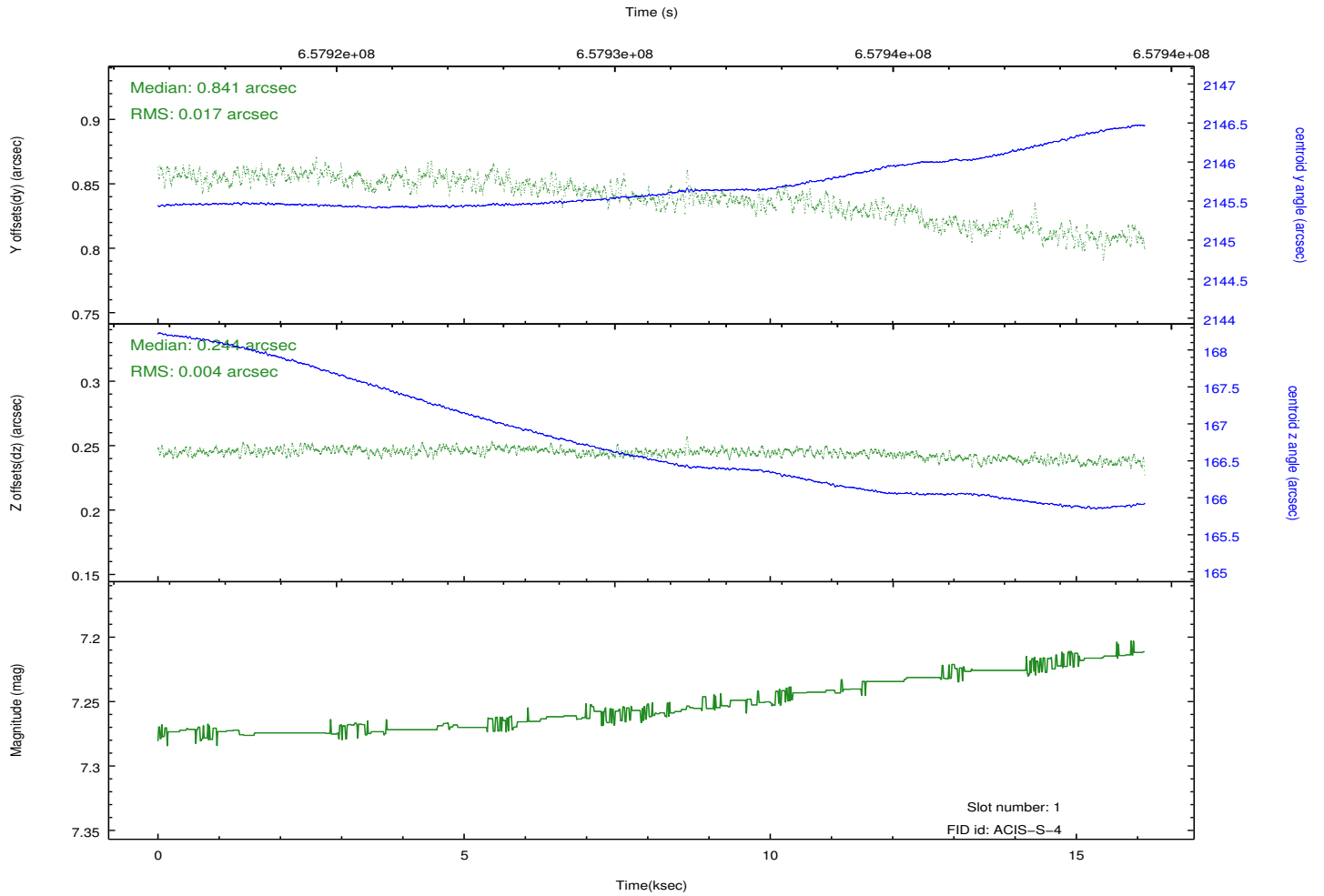
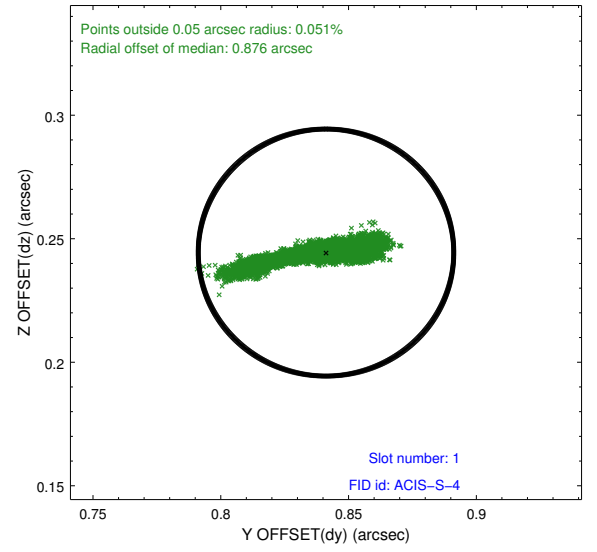
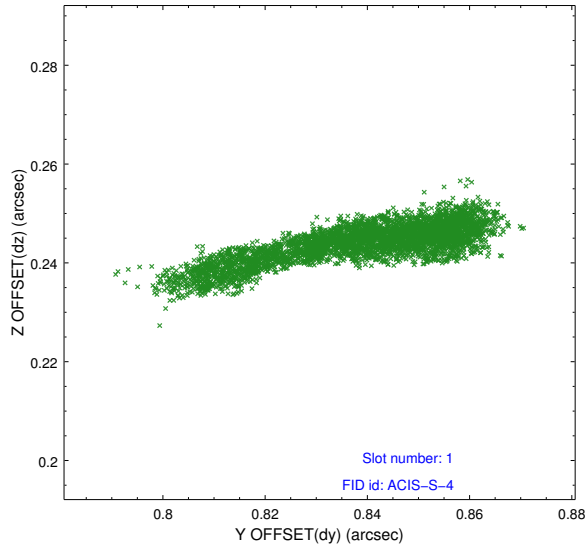


2.5 FID Slots

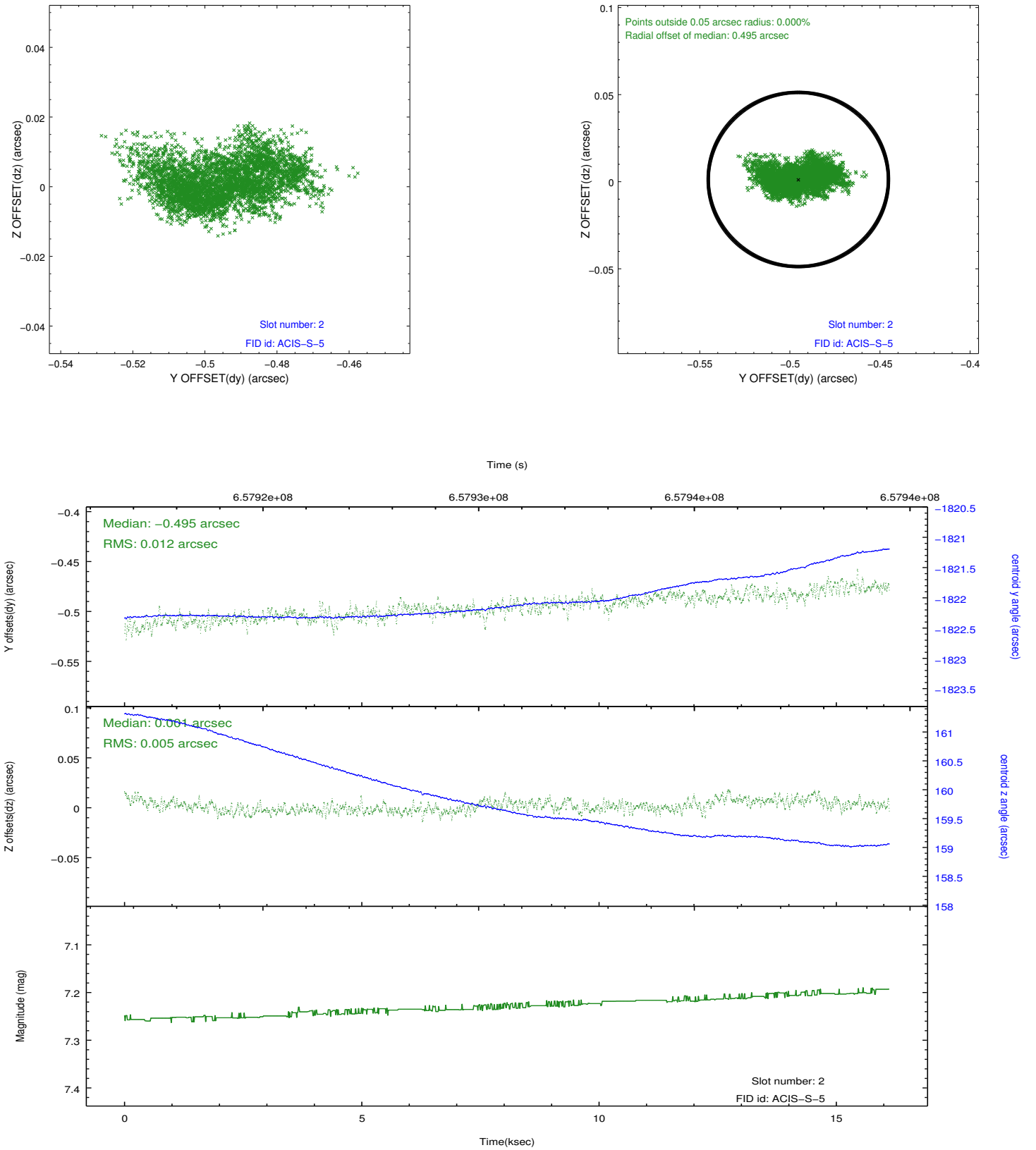
2.5.1 Slot 0



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)	2018.11.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.945600237608

A.2 Comments