

V&V Reference Report

L2 ASCDS Version : 10.5.4

Observation 20066 - L2 Version 1
Chandra X-Ray Center

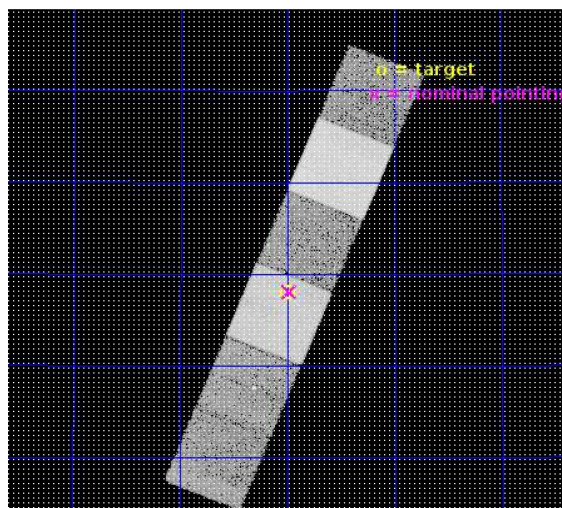
L2 Processing Date : Apr 29 2017

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1 Front

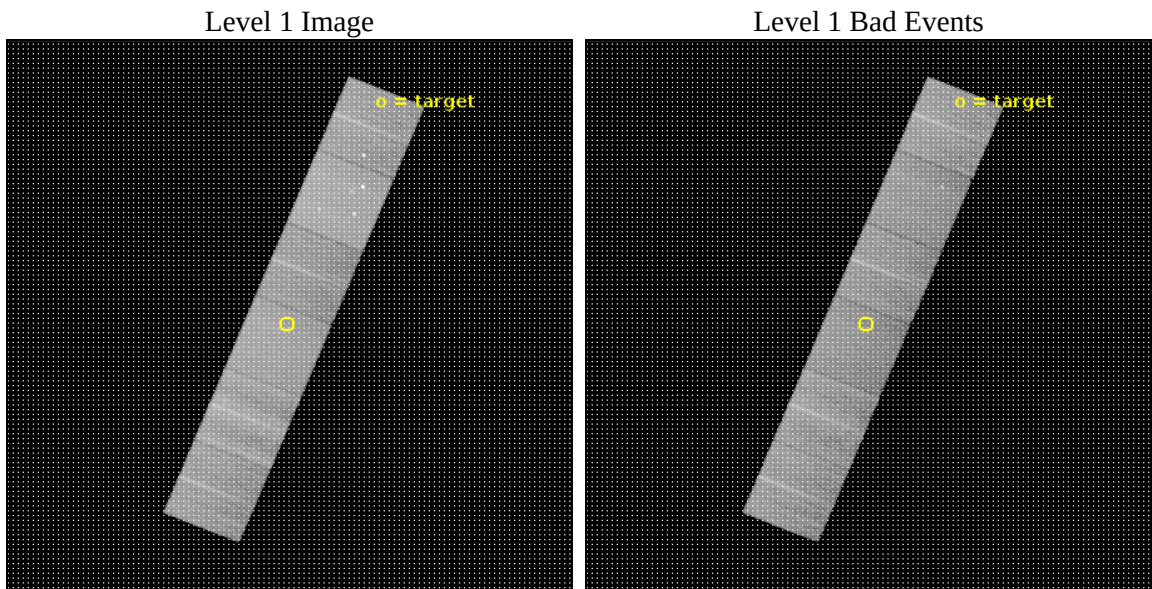
seq_num	201044	Sequence number
obs_id	20066	Observation id
title	Creating a gold-standard sample of ages and activity for old cool stars	Proposal title
observer	Katja Poppenhaeger	Principal investigator
object	Kepler-444	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	289.750833	Observer's specified target RA [deg]
dec_targ	41.633944	Observer's specified target Dec [deg]
ra_nom	289.74556612732	Nominal RA [deg]
dec_nom	41.63487149689	Nominal Dec [deg]
roll_nom	112.16012765097	Nominal Roll [deg]
revision	1	Processing version of data
ontime	19945.600297213	Sum of GTIs [s]
livetime	19693.037096451	Livetime [s]
ontime4	19945.600297213	Sum of GTIs [s]
ontime5	19945.600297213	Sum of GTIs [s]
ontime6	19945.600297213	Sum of GTIs [s]
ontime7	19945.600297213	Sum of GTIs [s]
ontime8	19945.600297213	Sum of GTIs [s]
ontime9	19939.118346572	Sum of GTIs [s]
l2events	235526	Number of level 2 events



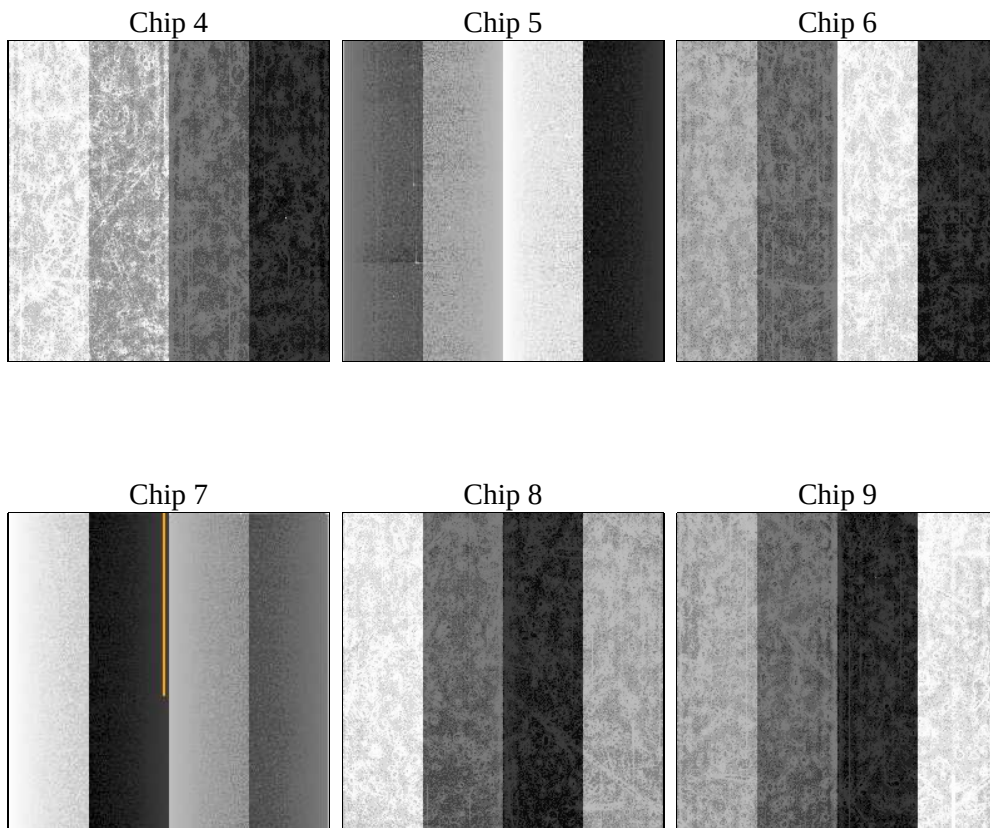
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	20000.000000	[s] Scheduled observation exposure time
ascdsver	10.5.4	Processing system revision	ontime	19945.600297213	Sum of GTIs [s]
caldsver	4.7.3	 	ontime4	19945.600297213	Sum of GTIs [s]
date	2017-04-29T22:46:39	Date and time of file creation	ontime5	19945.600297213	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	19945.600297213	Sum of GTIs [s]
			ontime7	19945.600297213	Sum of GTIs [s]
			ontime8	19945.600297213	Sum of GTIs [s]
			ontime9	19939.118346572	Sum of GTIs [s]
			l1events	1022828	Number of level 1 events

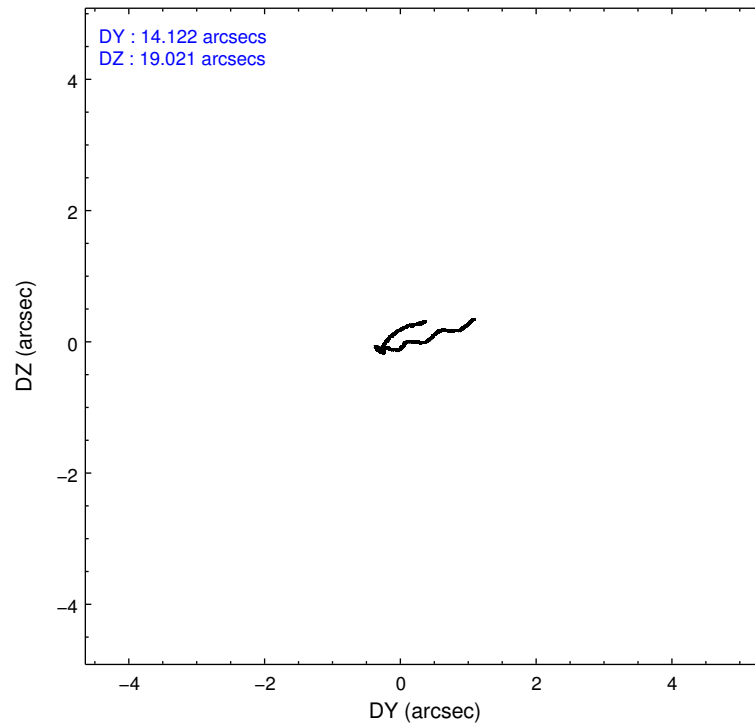
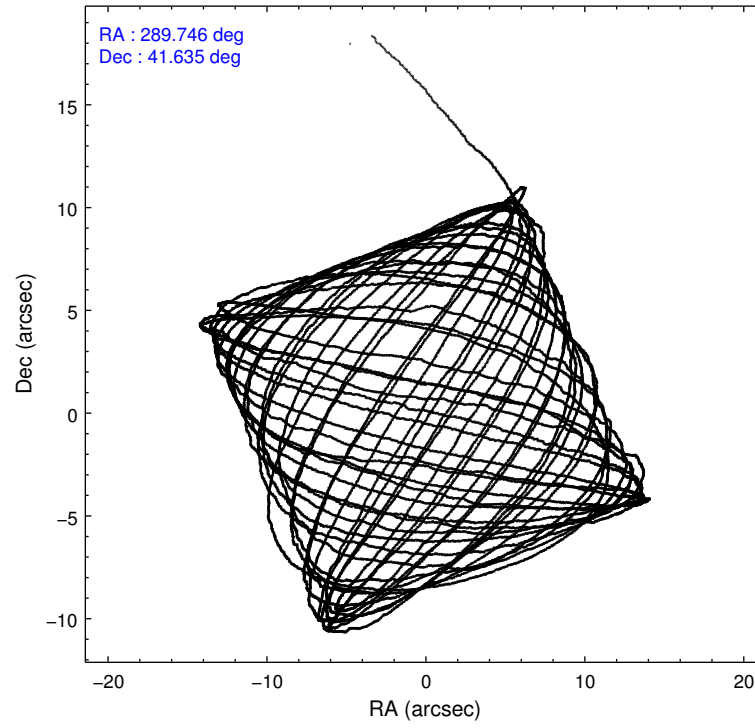
2.1.4 Events

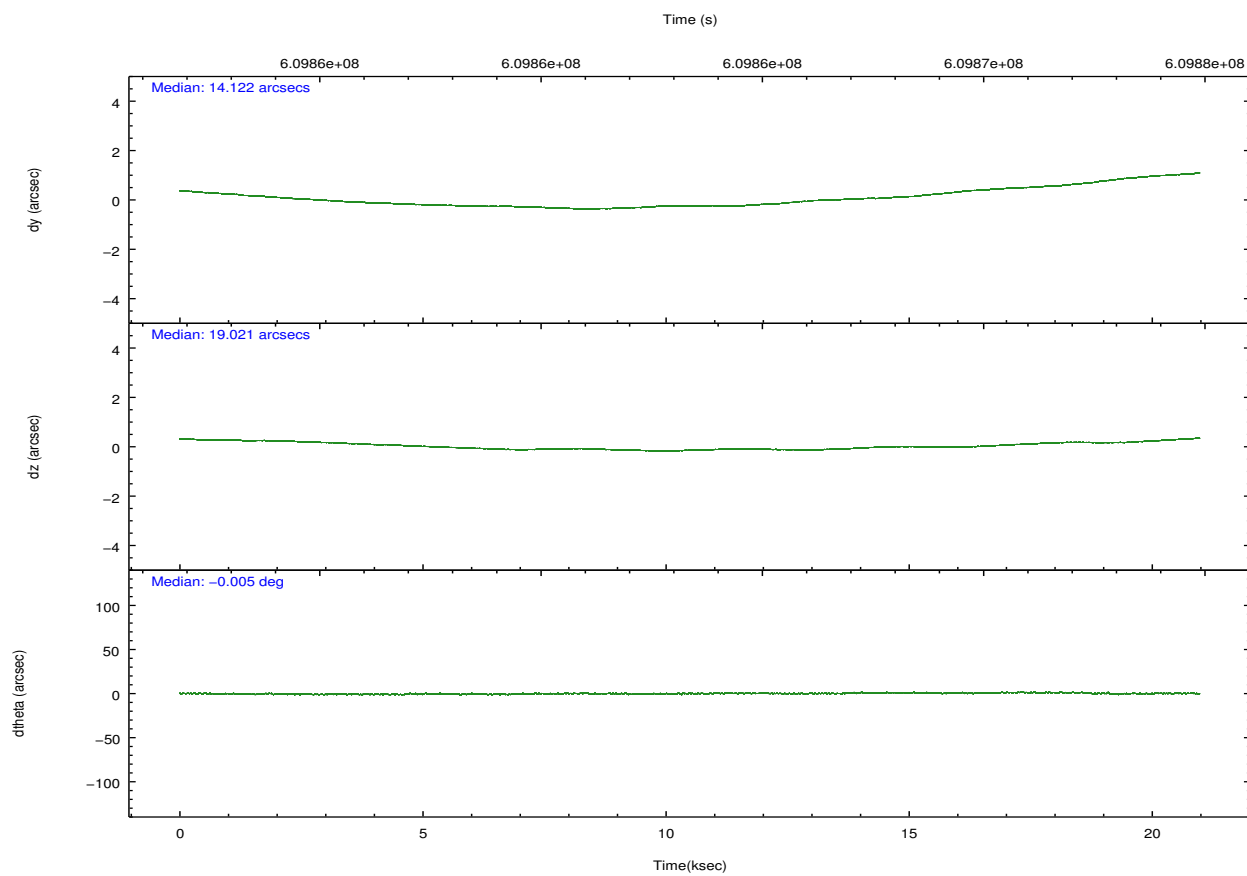
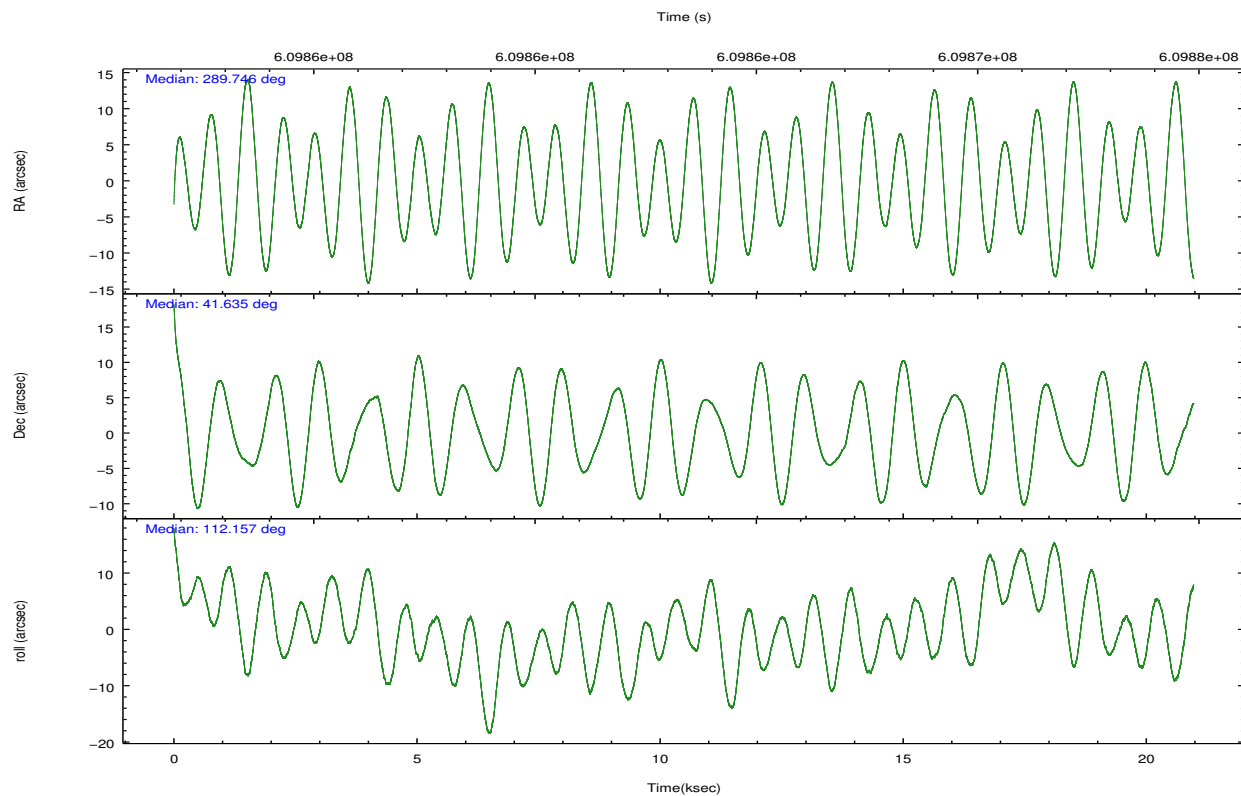
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	162808	225488	134683	176512	183783	139554	grade 0 events	10123	12275	5335	6841	15421	6062
rejected events	141883	111846	118842	98732	132130	122528		6%	5%	3%	3%	8%	4%
rejected %	87%	49%	88%	55%	71%	87%	grade 1 events	176	912	71	233	136	85
								0%	0%	0%	0%	0%	0%
							grade 2 events	4308	36854	3658	16767	12506	3849
								2%	16%	2%	9%	6%	2%
							grade 3 events	1765	3773	1644	6293	4954	1721
								1%	1%	1%	3%	2%	1%
							grade 4 events	1676	3515	1550	6234	4814	1652
								1%	1%	1%	3%	2%	1%
							grade 5 events	6686	15985	6449	17783	9923	7347
								4%	7%	4%	10%	5%	5%
							grade 6 events	3056	57242	3655	41657	13961	3745
								1%	25%	2%	23%	7%	2%
							grade 7 events	135018	94932	112321	80704	122068	115093
								82%	42%	83%	45%	66%	82%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	289.774835	289.7455661273249	CCD I2 on	N	N
[deg] Pointing Dec	41.618313	41.63487149688952	CCD I3 on	N	N
[deg] Pointing Roll	111.984059	112.1601276509664	CCD S0 on	O1	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S1 on	O3	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S2 on	O5	Y
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S3 on	Y	Y
[mm] SIM translation stage offset	0	0.00754346686406393	CCD S4 on	O4	Y
[s] Observation start time (MET)	609853834.184000	609852117.79442	CCD S5 on	O2	Y
Observation start date	2017-04-29T11:49:25	2017-04-29T11:21:57	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	609873834.184000	609874661.64573	On-chip summing requested	N	N
Observation end date	2017-04-29T17:22:45	2017-04-29T17:37:41	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



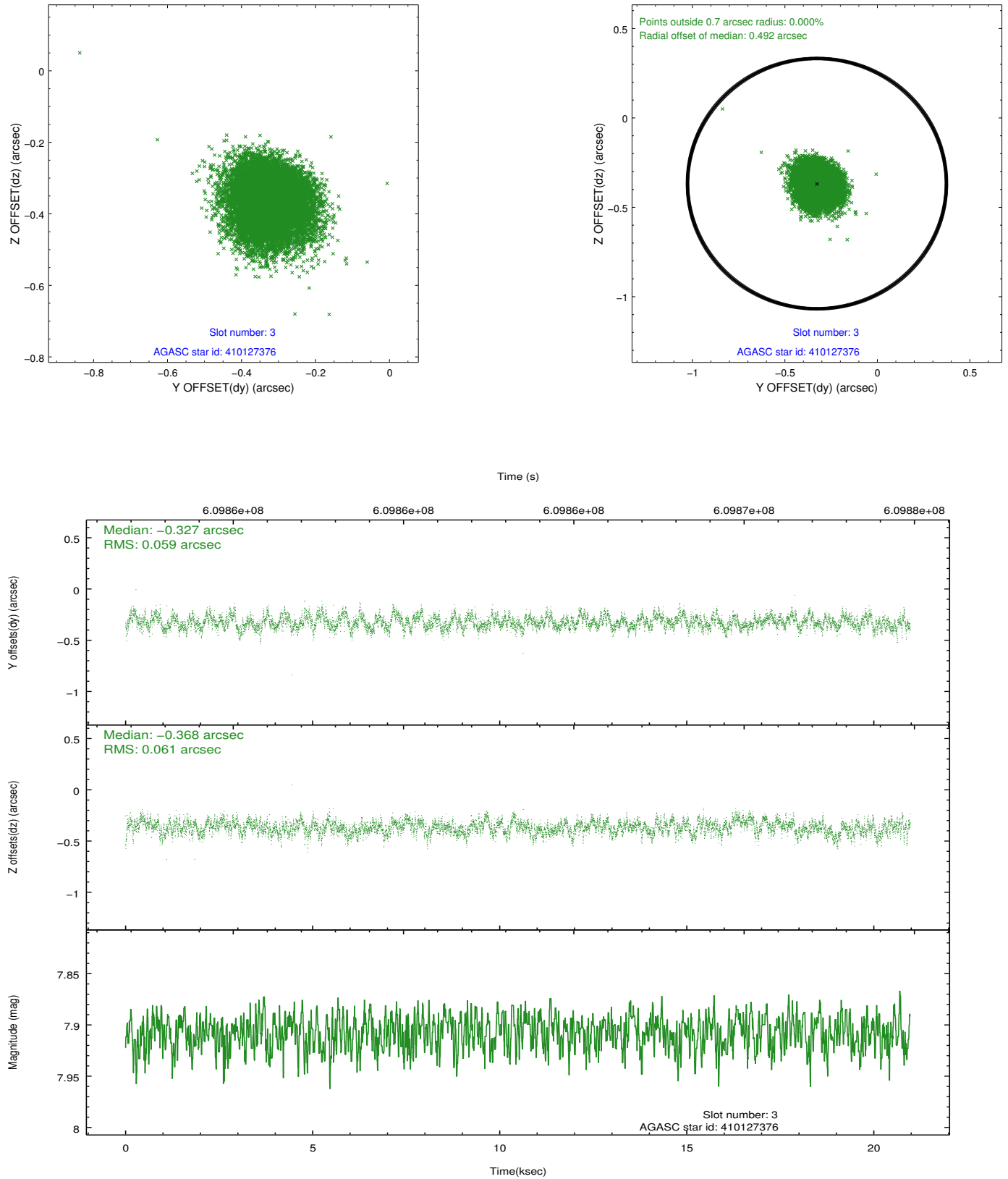


Slot Statistics

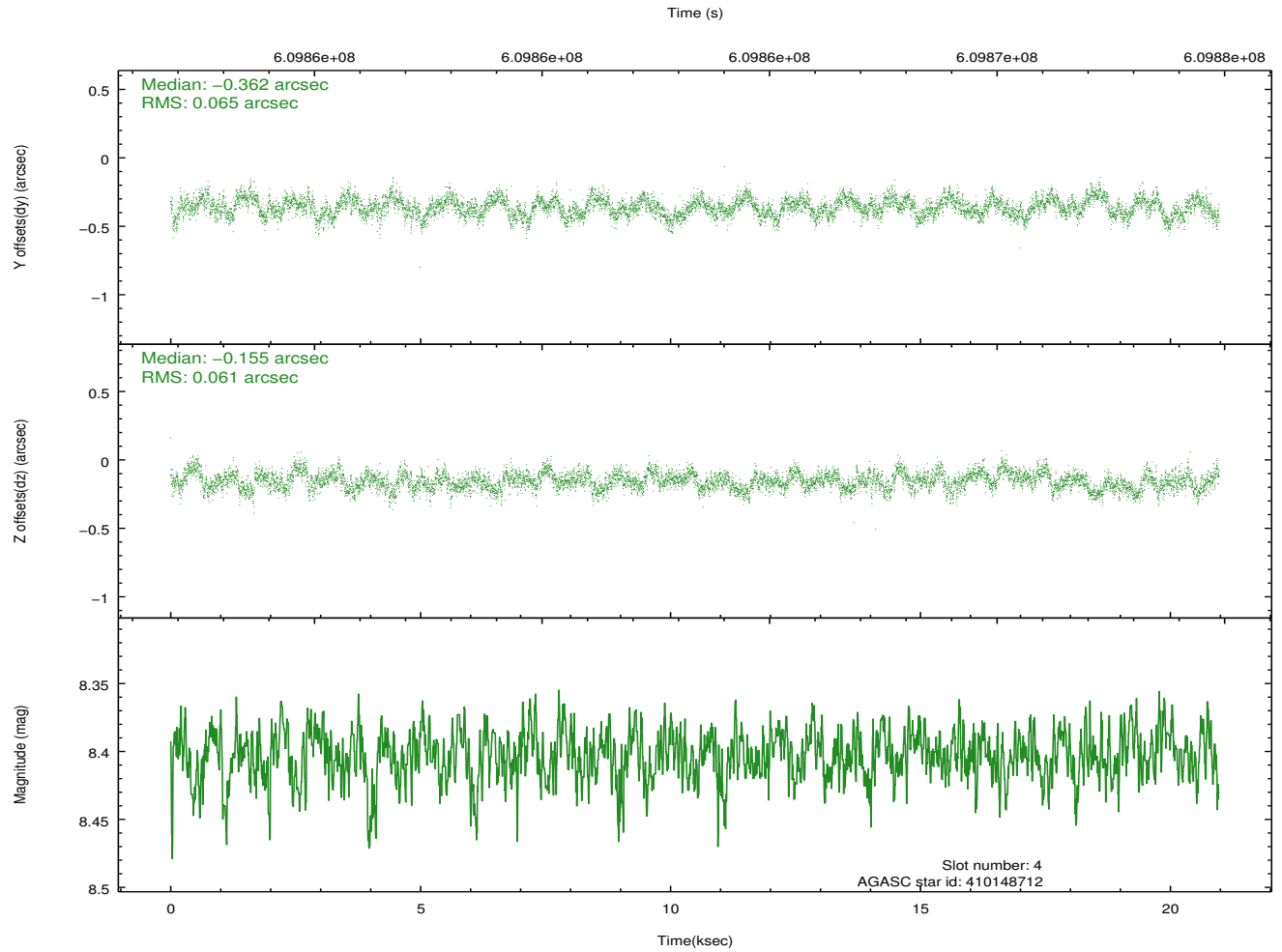
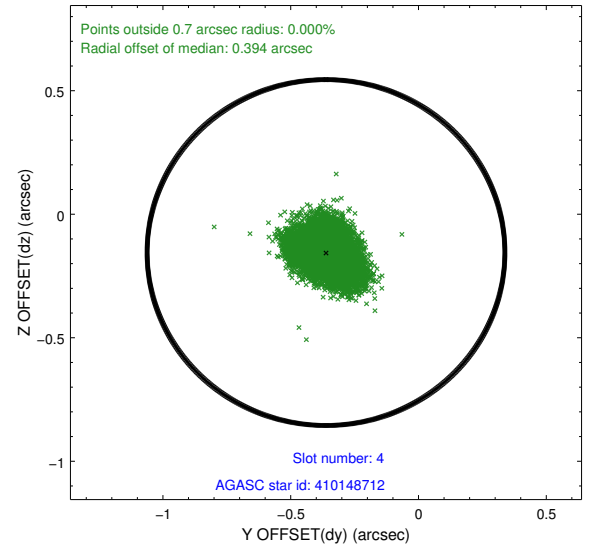
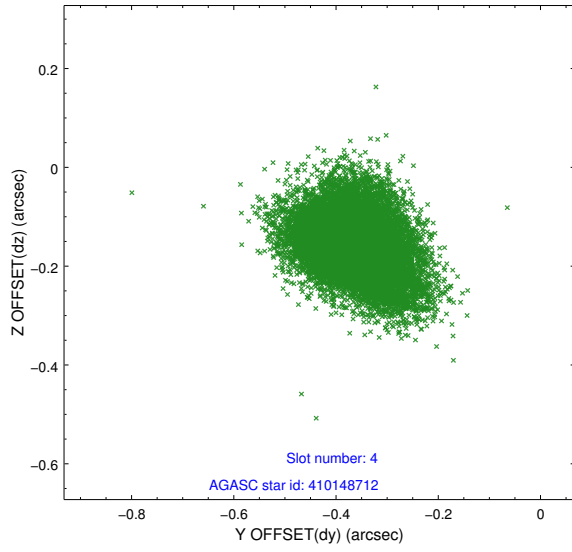
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	6.92	5116	-0.179	-0.086	0.016	0.033	0.000000	0.000000	-767.33	-1740.64
1	FID		ACIS-S-4	7.04	5116	0.451	0.110	0.014	0.022	0.000000	0.000000	2146.48	167.89
2	FID		ACIS-S-5	7.03	5116	-0.303	-0.014	0.012	0.032	0.000000	0.000000	-1820.09	161.58
3	GUIDE	used	410127376	7.91	10232	-0.327	-0.368	0.091	0.144	289.545272	42.006289	1525.71	46.24
4	GUIDE	used	410148712	8.40	10228	-0.362	-0.155	0.094	0.152	289.425952	42.024521	1706.96	317.36
5	GUIDE	used	410150512	8.59	10224	-0.142	-0.231	0.099	0.160	289.443153	41.410233	-356.10	1110.46
6	GUIDE	used	411840600	7.79	10231	0.317	0.338	0.100	0.158	290.889021	41.283462	-2227.55	-2350.47
7	GUIDE	used	411840320	9.24	10221	0.515	0.409	0.174	0.266	290.759998	41.433657	-1599.06	-2220.51

2.4 Star Slots

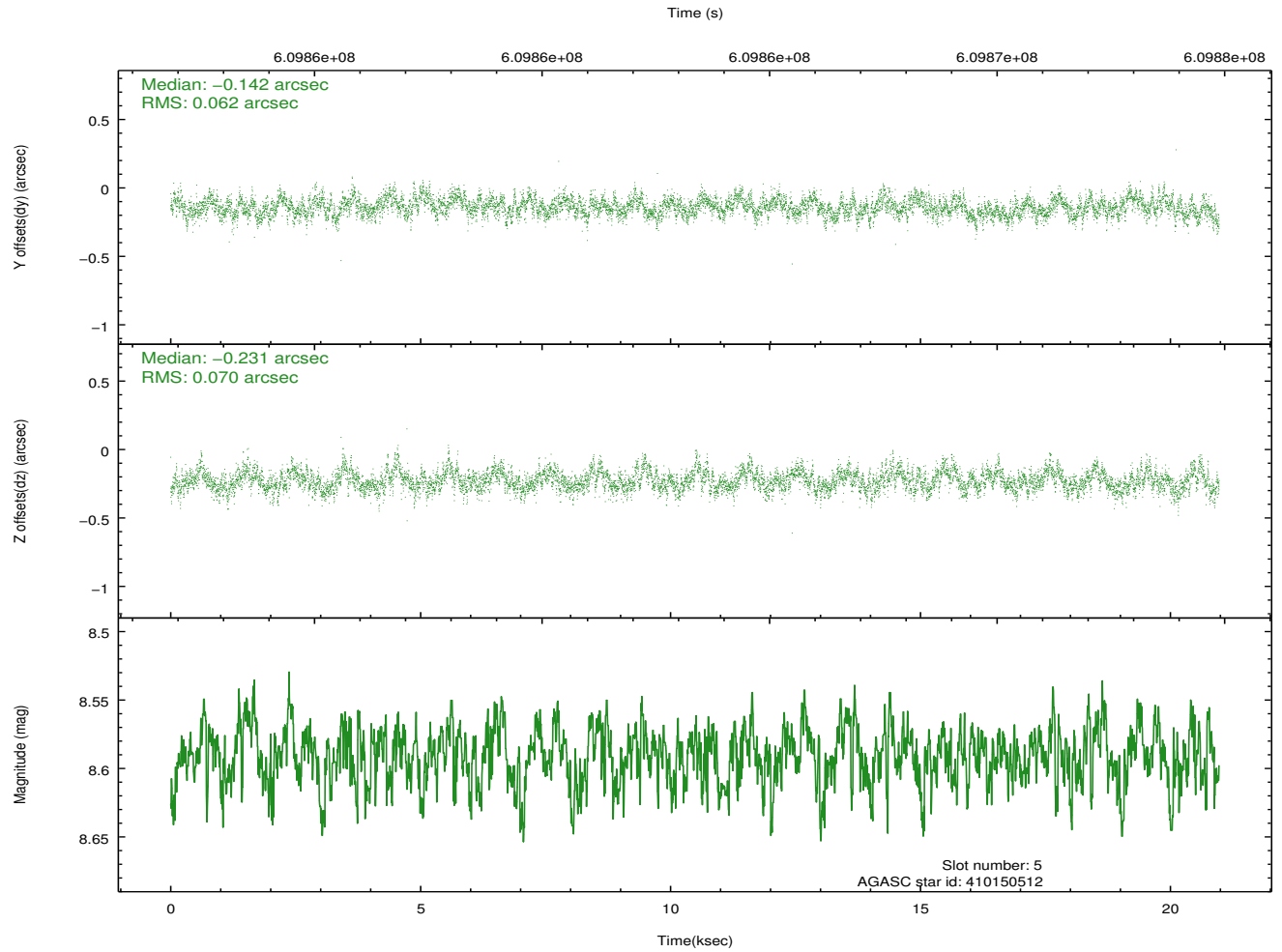
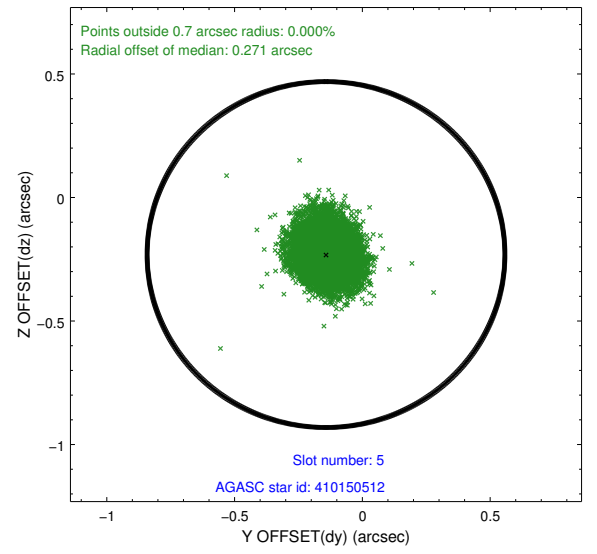
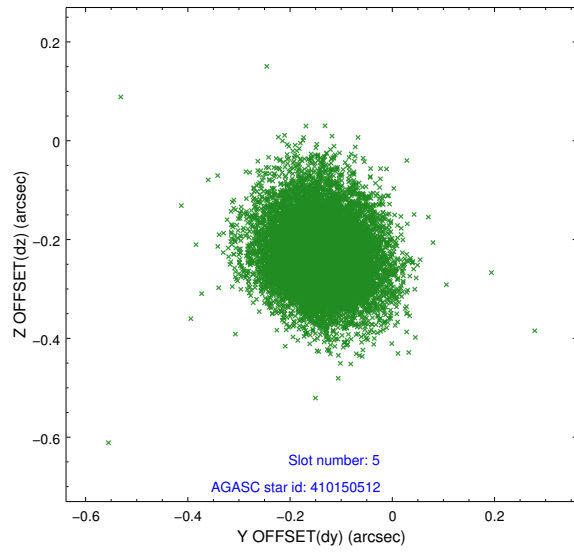
2.4.1 Slot 3



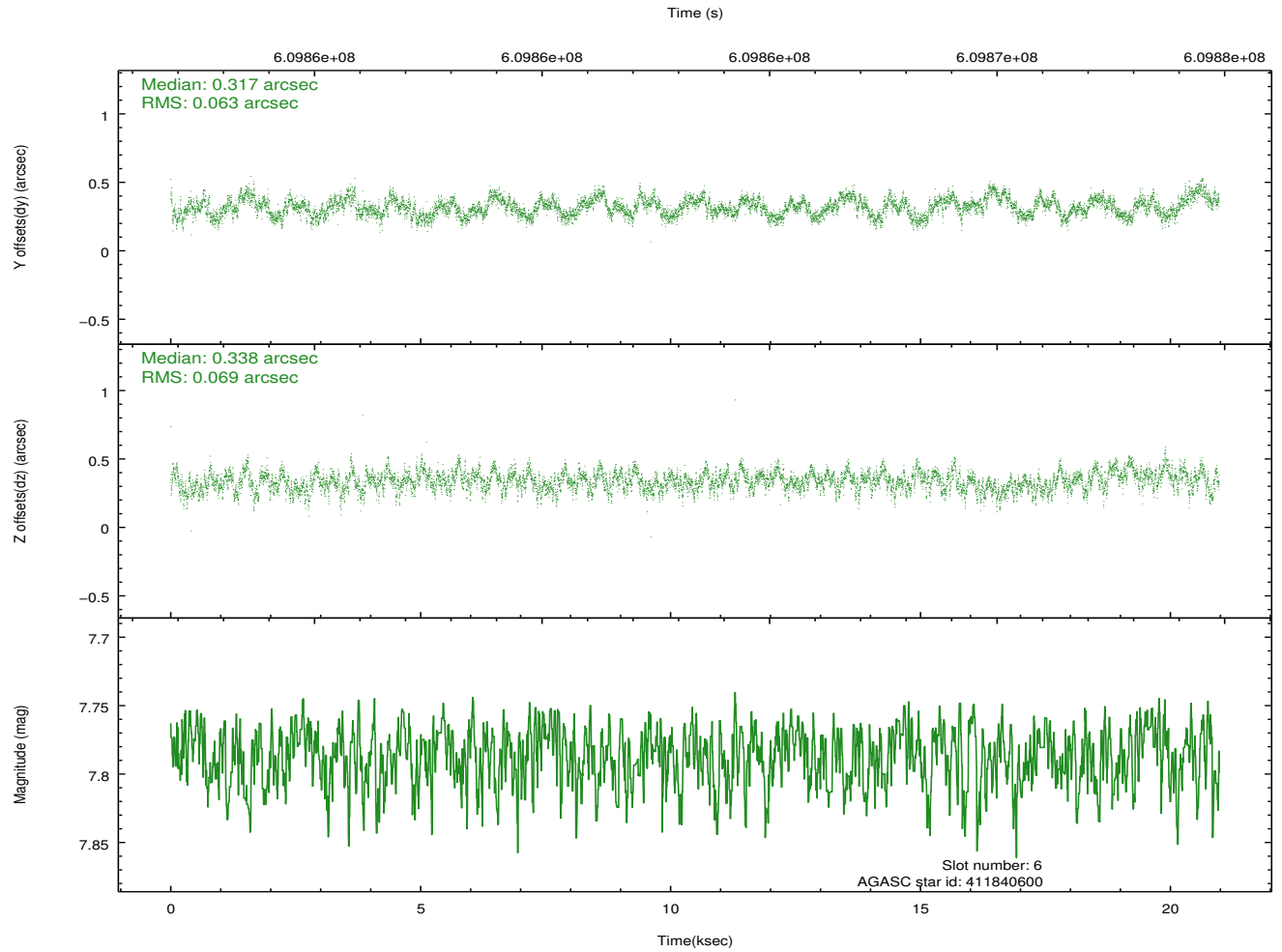
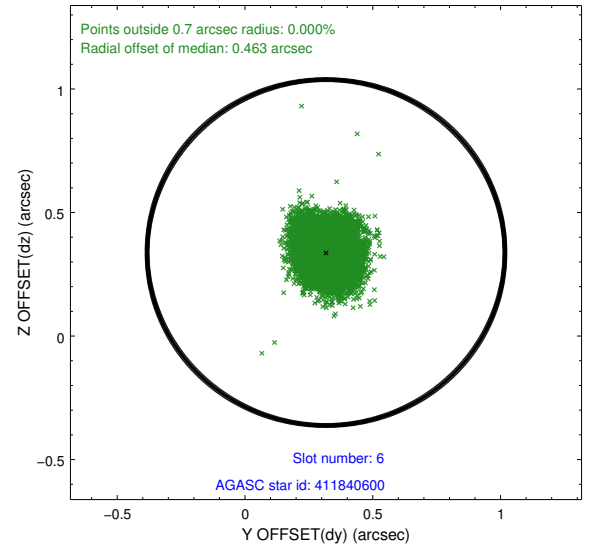
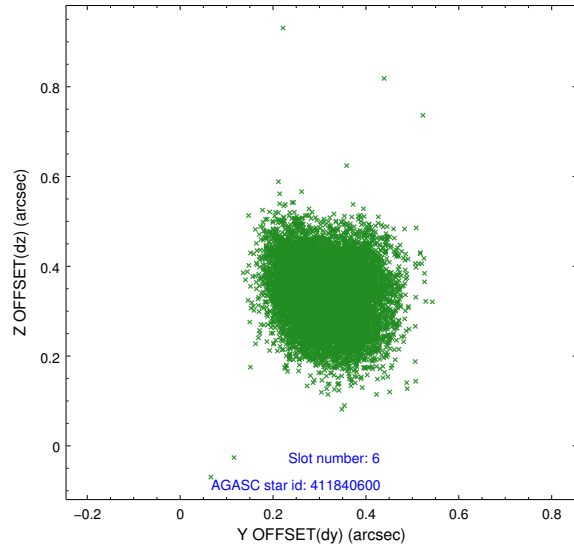
2.4.2 Slot 4



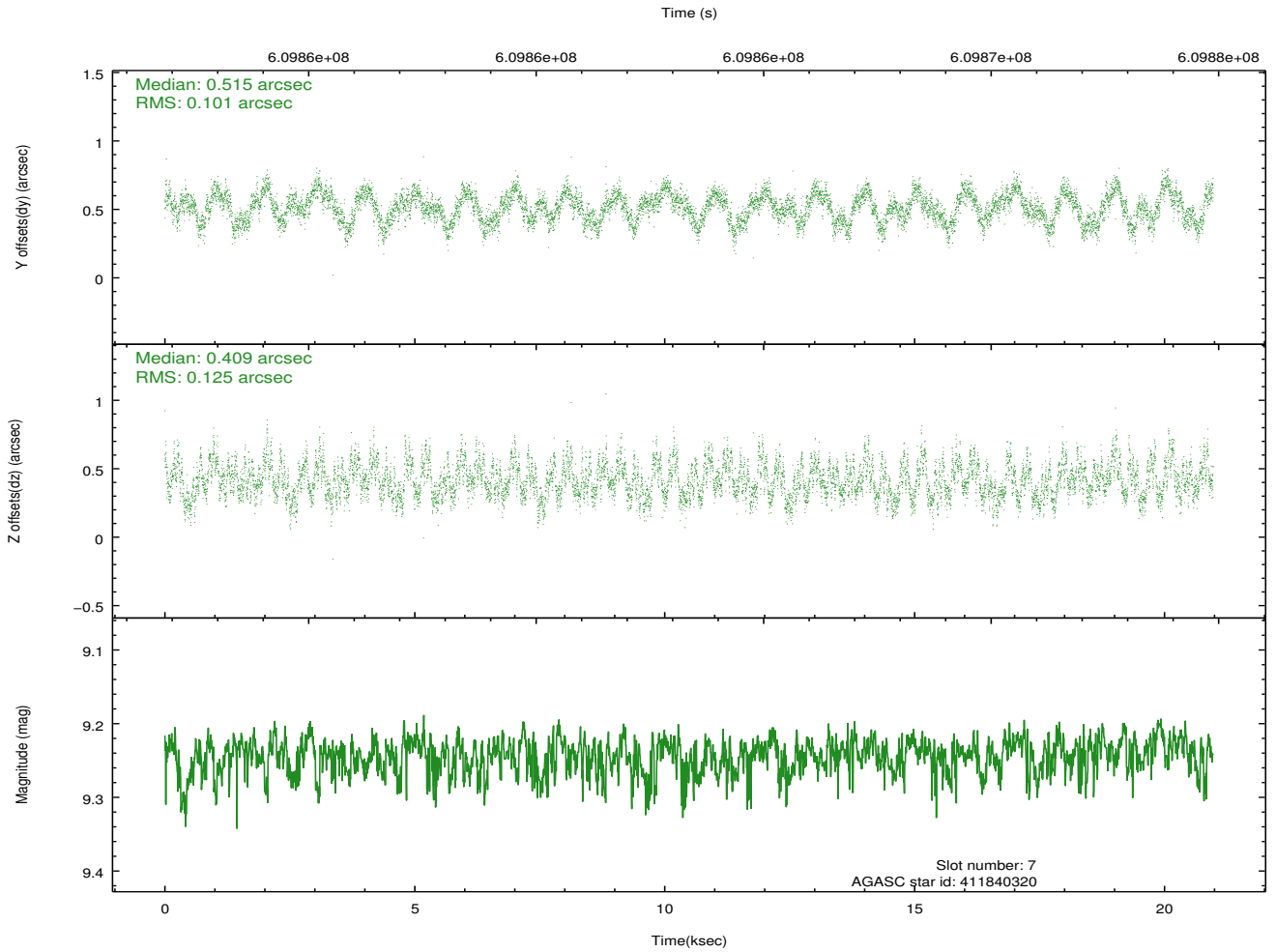
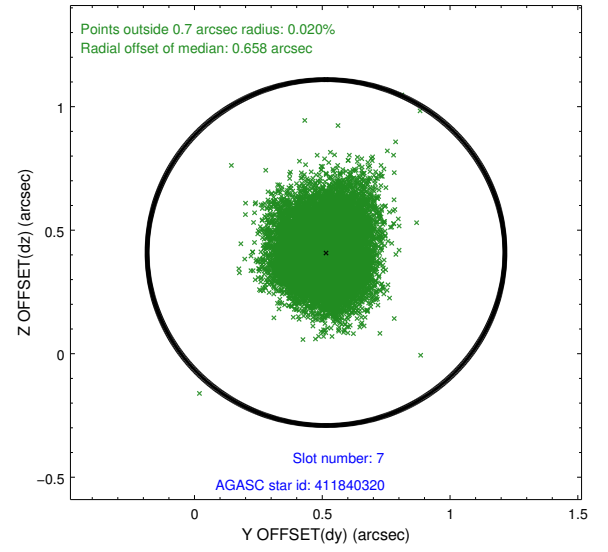
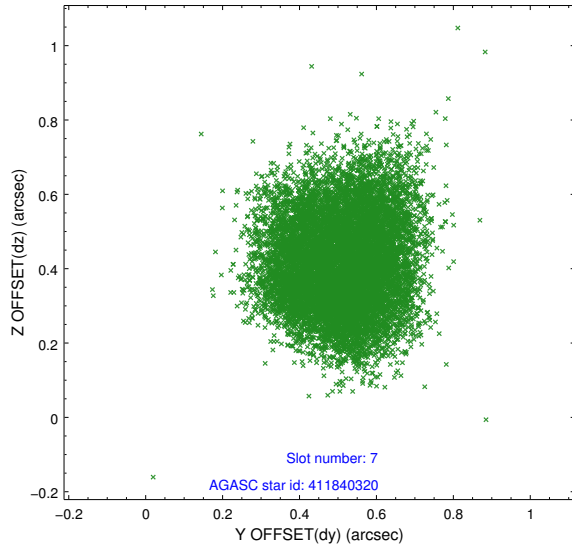
2.4.3 Slot 5



2.4.4 Slot 6

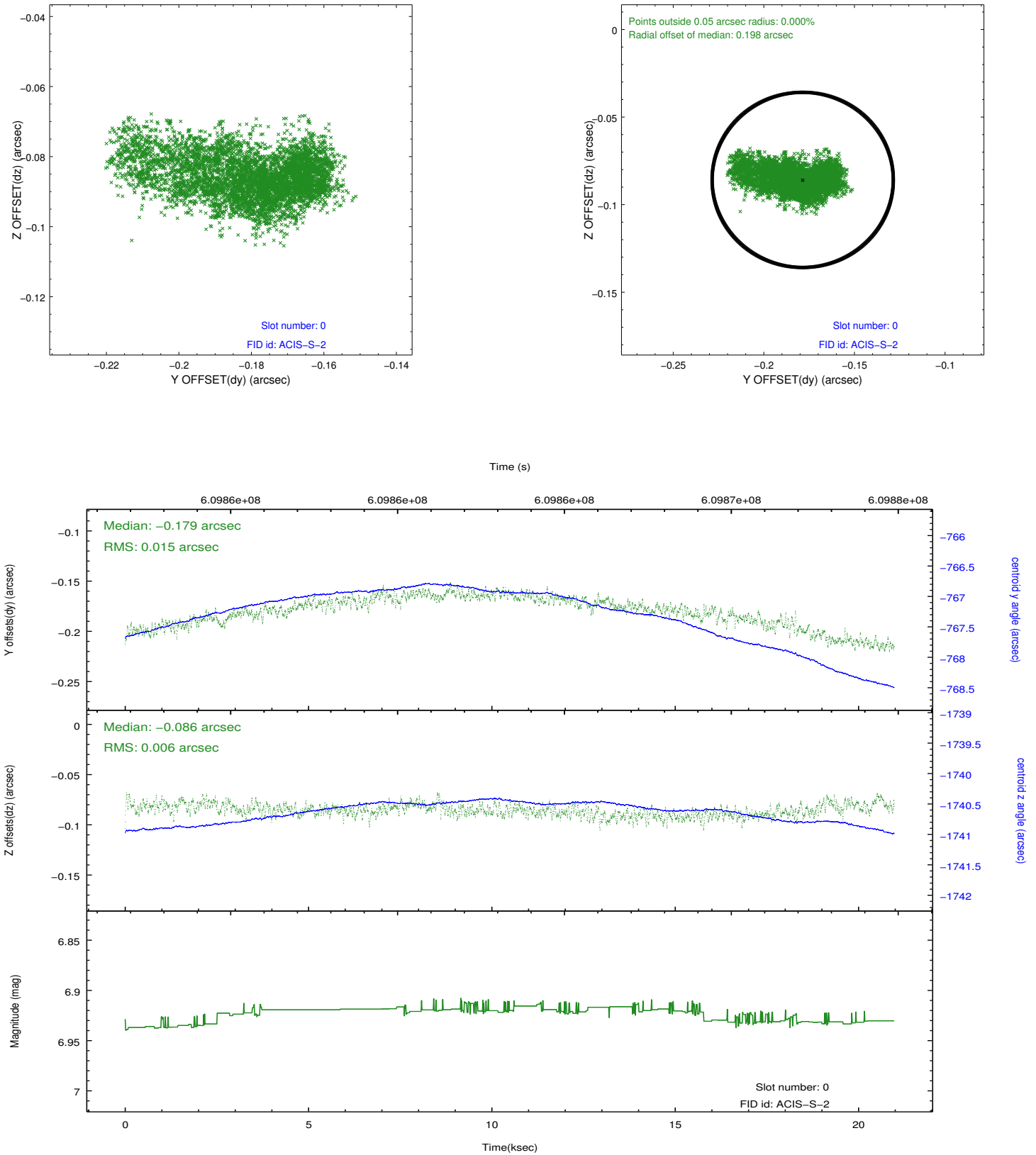


2.4.5 Slot 7

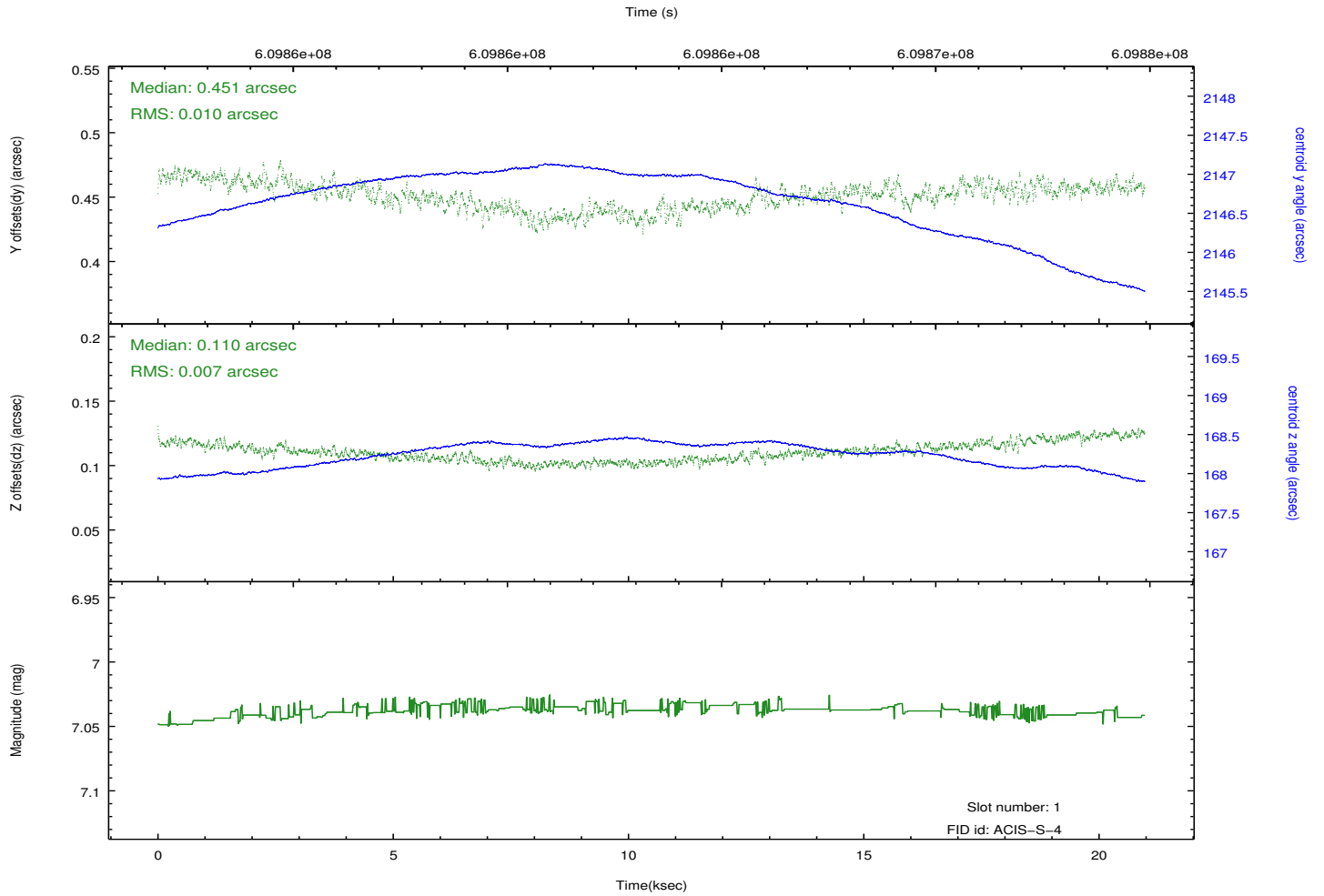
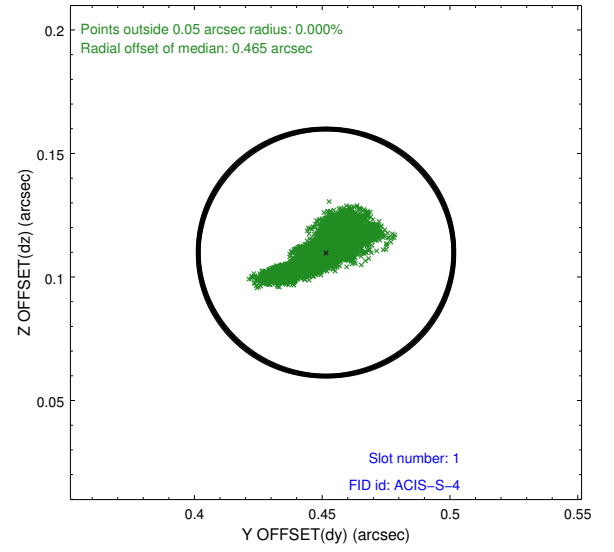
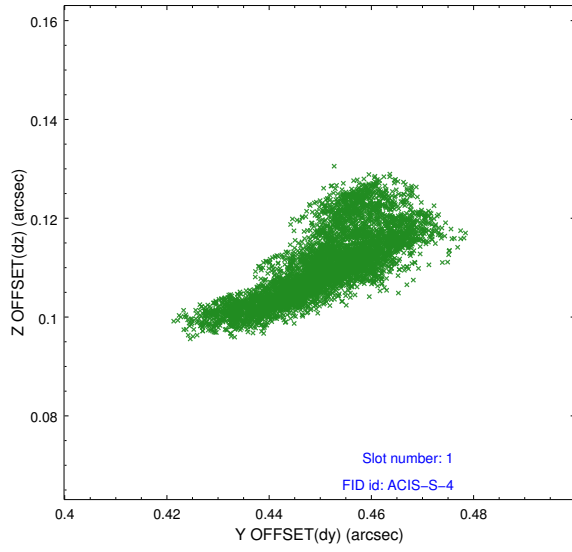


2.5 FID Slots

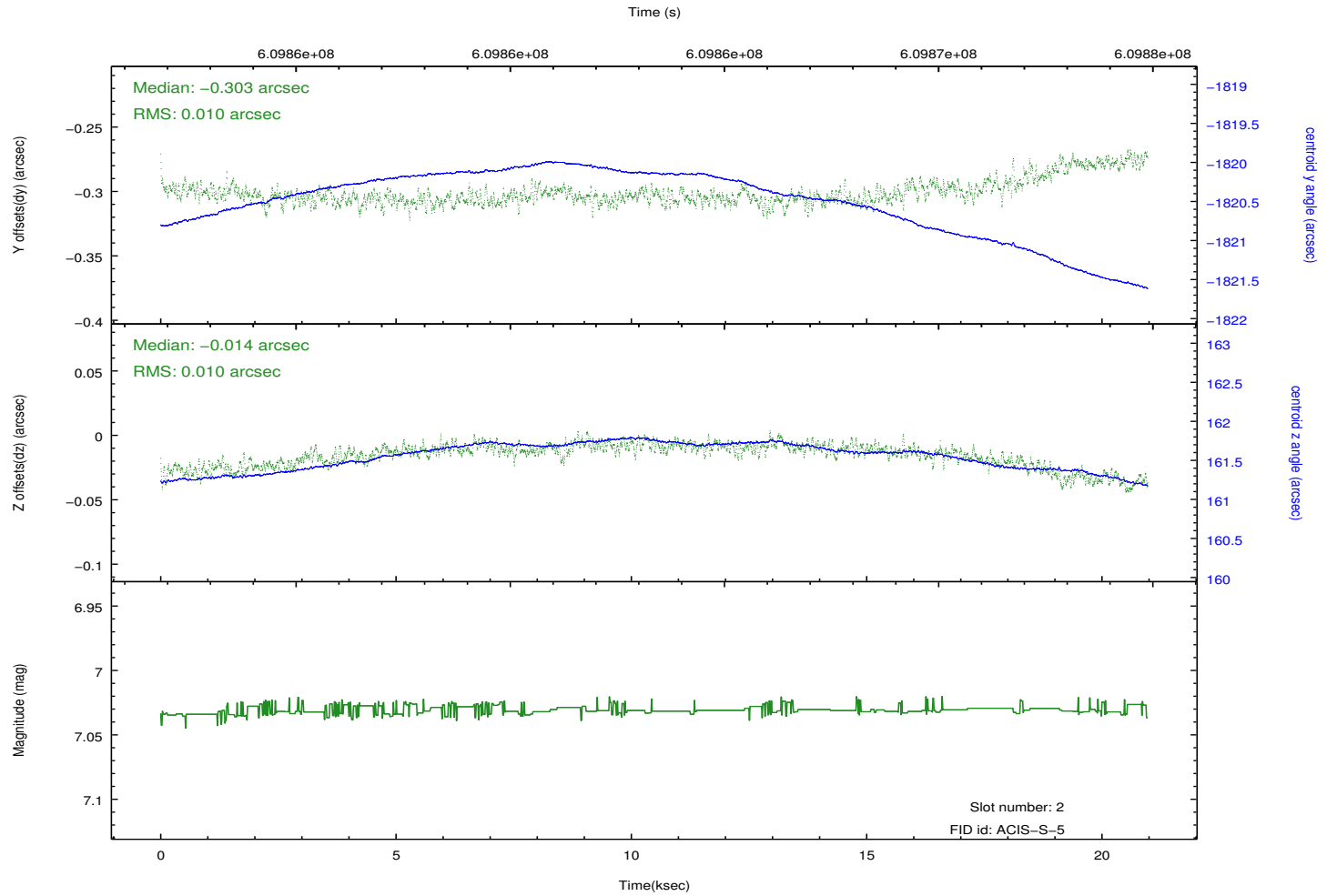
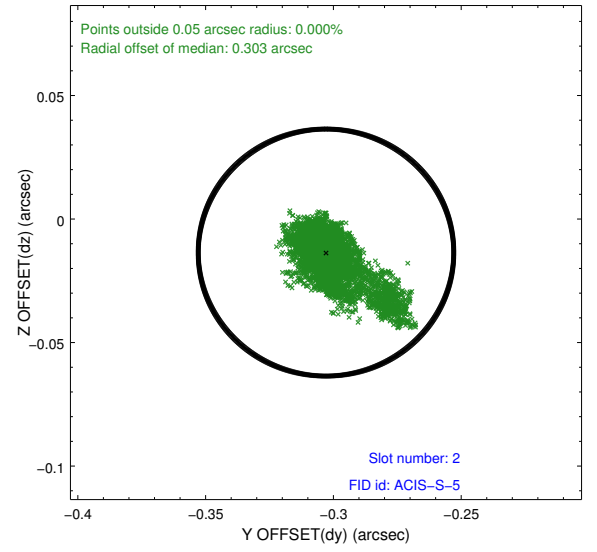
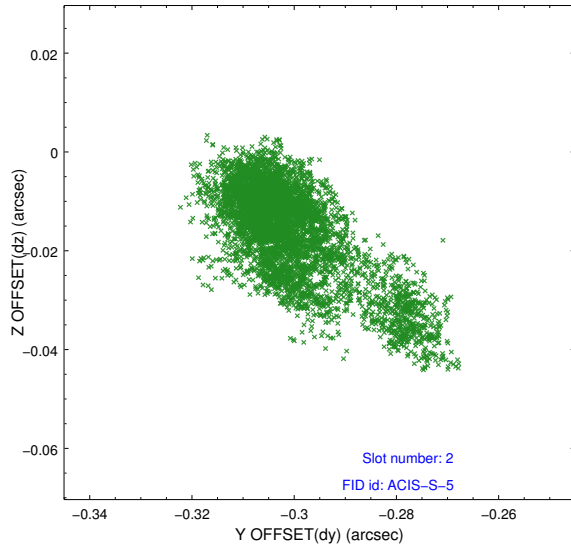
2.5.1 Slot 0



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)	2017.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	19.945600297213

A.2 Comments