

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 9147 - L2 Version 3
Chandra X-Ray Center

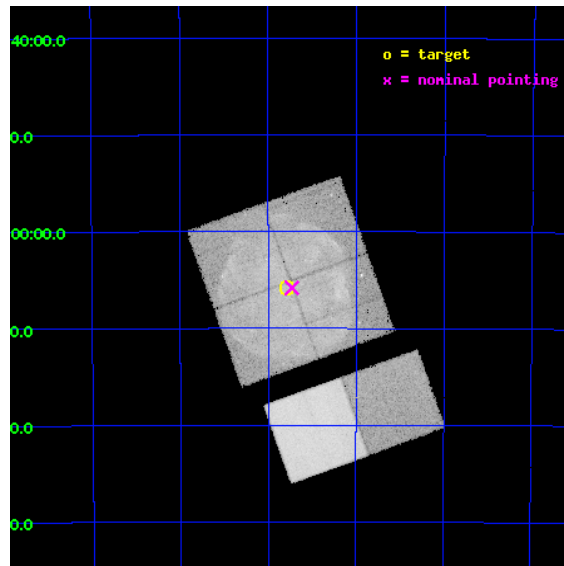
L2 Processing Date : Jun 18 2012

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1 Front

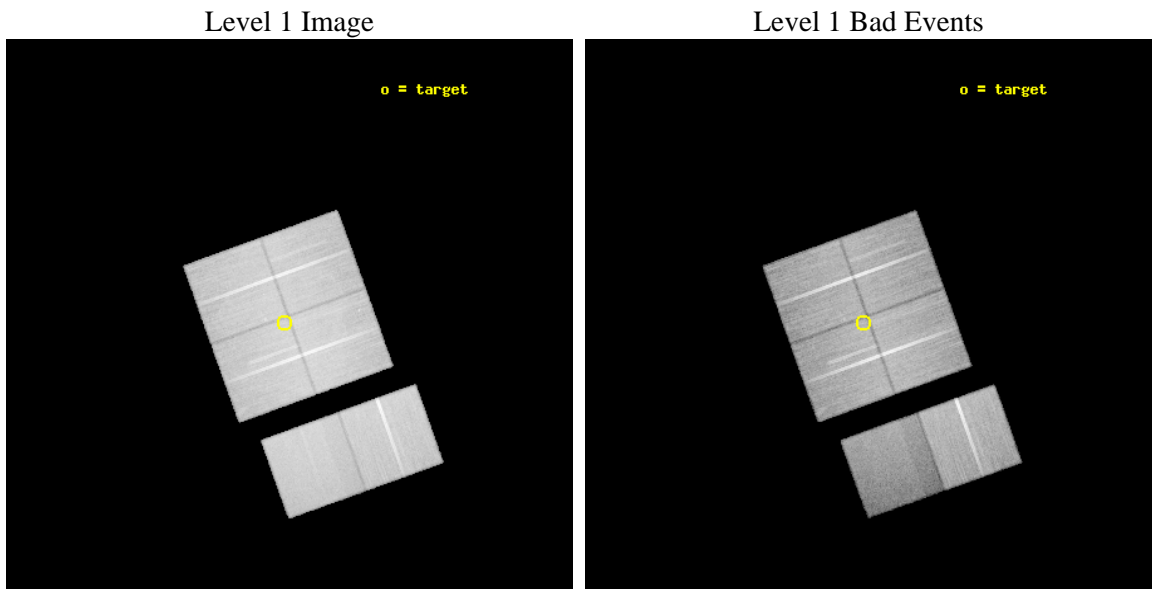
seq_num	501008	Sequence number
obs_id	9147	Observation id
title	Galactic Supernova Remnant G272.2-3.2	Proposal title
observer	Professor Gordon Garmire	Principal investigator
object	G272.2-3.2	Source name
dtycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	136.695833	Observer's specified target RA [deg]
dec_targ	-52.097222	Observer's specified target Dec [deg]
ra_nom	136.68268343044	Nominal RA [deg]
dec_nom	-52.096877007093	Nominal Dec [deg]
roll_nom	160.19830713773	Nominal Roll [deg]
revision	3	Processing version of data
ontime	42172.717892051	Sum of GTIs [s]
liveltime	41638.70154474	Livetime [s]
ontime0	42172.717862368	Sum of GTIs [s]
ontime1	42172.717872262	Sum of GTIs [s]
ontime2	42175.958962202	Sum of GTIs [s]
ontime3	42172.717892051	Sum of GTIs [s]
ontime6	42175.958852649	Sum of GTIs [s]
ontime7	42179.19984293	Sum of GTIs [s]
l2events	348447	Number of level 2 events



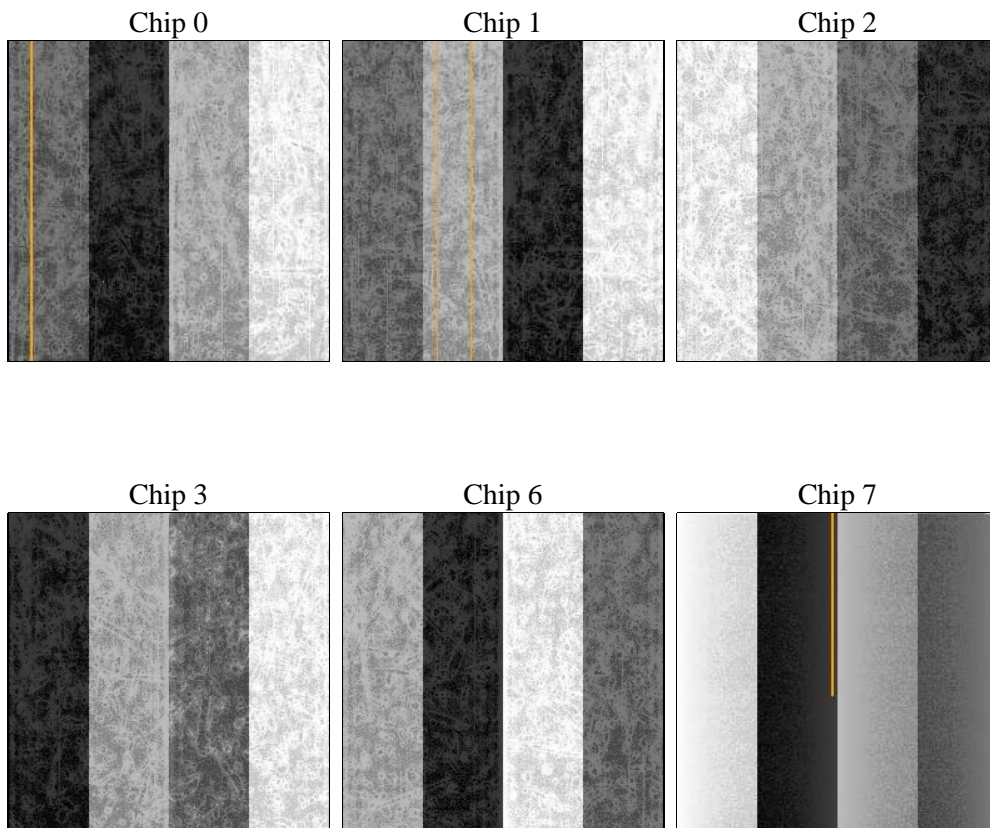
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	42000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	42172.717892051	Sum of GTIs [s]
caldbver	4.4.10	 	ontime0	42172.717862368	Sum of GTIs [s]
date	2012-06-18T19:42:35	Date and time of file creation	ontime1	42172.717872262	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	42175.958962202	Sum of GTIs [s]
			ontime3	42172.717892051	Sum of GTIs [s]
			ontime6	42175.958852649	Sum of GTIs [s]
			ontime7	42179.19984293	Sum of GTIs [s]
			l1events	2011162	Number of level 1 events

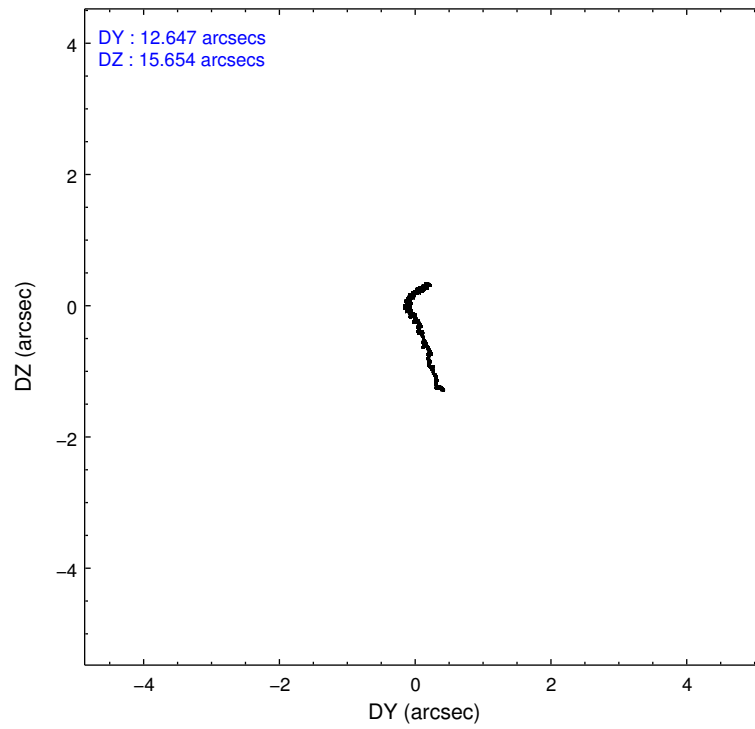
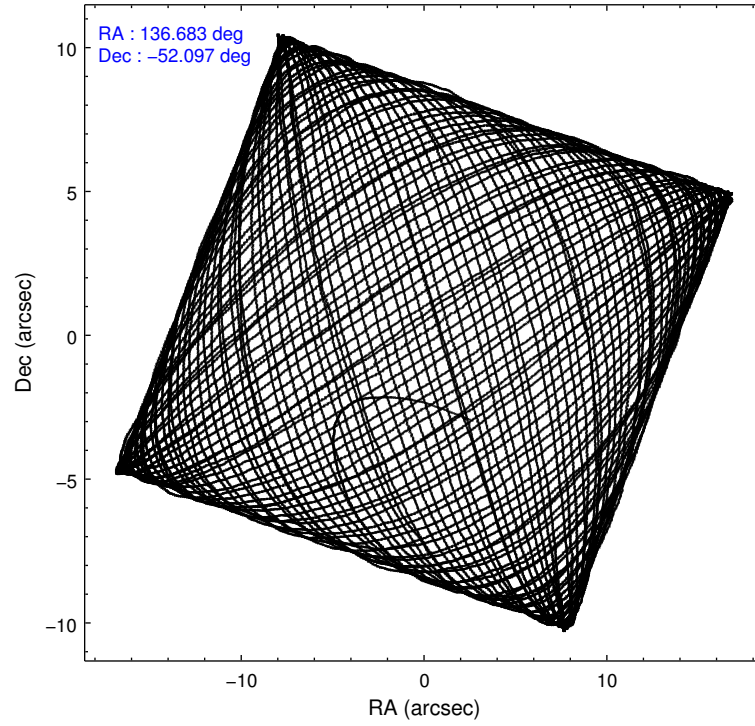
2.1.4 Events

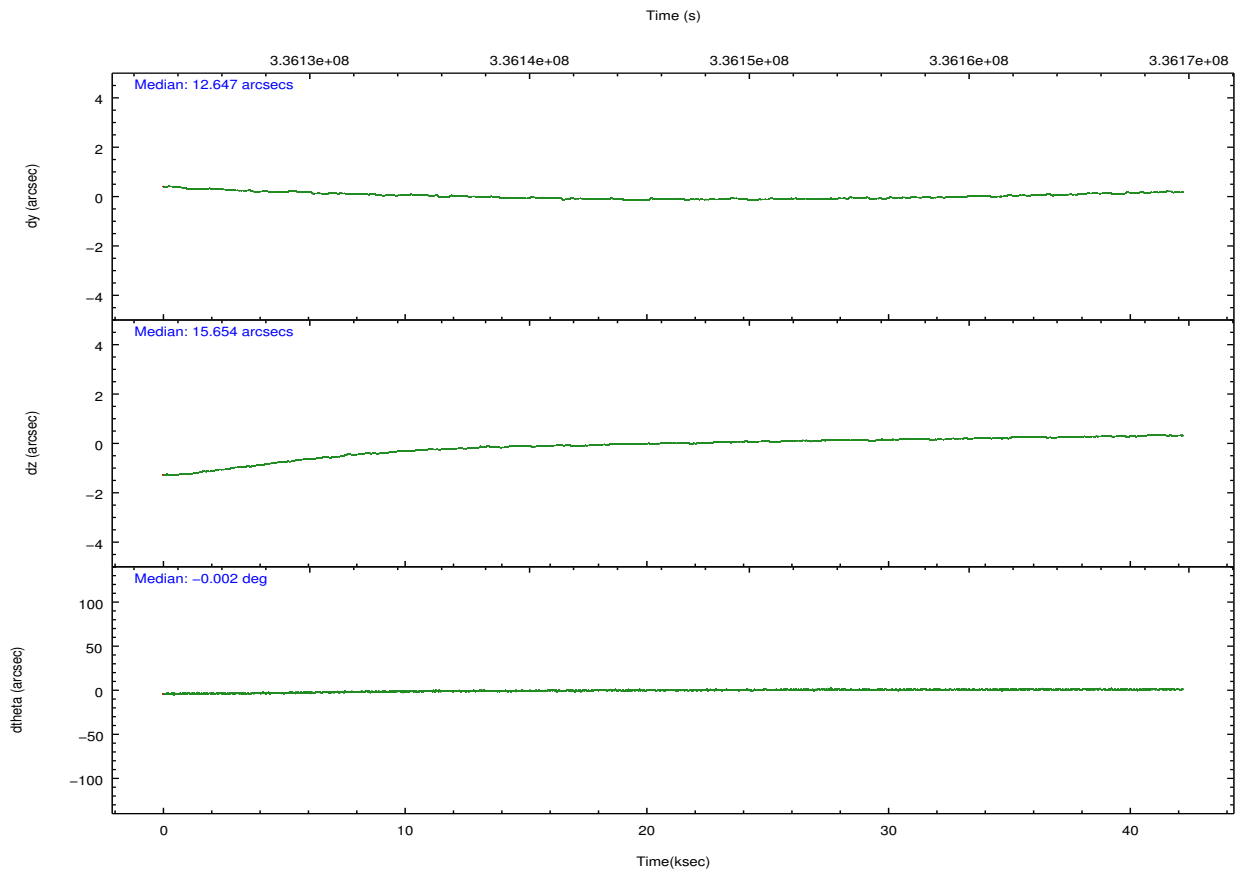
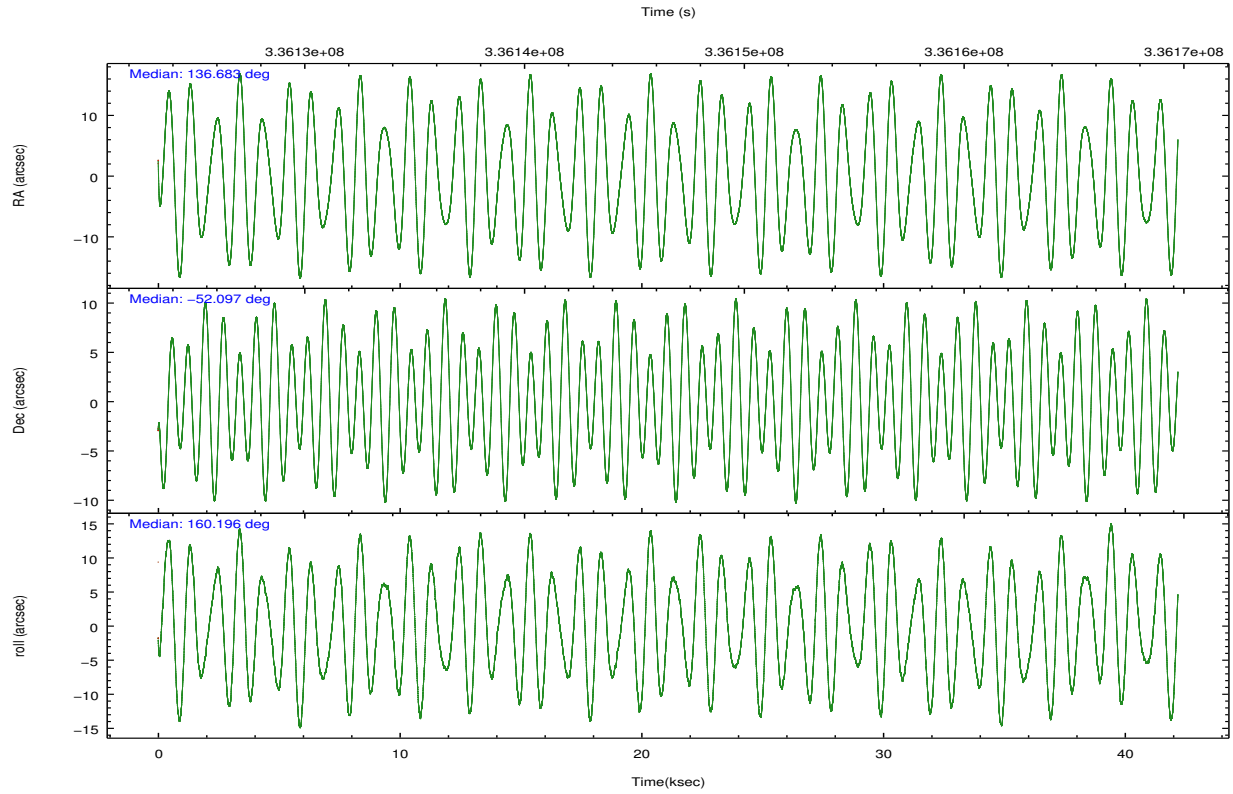
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	321678	322941	365975	343507	341545	315516	grade 0 events	23040	25065	30019	29045	12209	16004
rejected events	276206	273675	313489	292740	307752	160891		7%	7%	8%	8%	3%	5%
rejected %	85%	84%	85%	85%	90%	50%	grade 1 events	240	272	269	320	177	467
								0%	0%	0%	0%	0%	0%
							grade 2 events	9149	8921	9374	8304	7760	32999
								2%	2%	2%	2%	2%	10%
							grade 3 events	3901	4321	3788	3950	3618	14668
								1%	1%	1%	1%	1%	4%
							grade 4 events	3672	4160	3805	3755	3502	14511
								1%	1%	1%	1%	1%	4%
							grade 5 events	9899	11169	9202	11646	11743	34253
								3%	3%	2%	3%	3%	10%
							grade 6 events	5936	7055	5753	5982	6913	77461
								1%	2%	1%	1%	2%	24%
							grade 7 events	265841	261978	303765	280505	295623	125153
								82%	81%	83%	81%	86%	39%

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	136.726719	136.6826834304422	CCD I2 on	Y	Y
[deg] Pointing Dec	-52.091885	-52.09687700709348	CCD I3 on	Y	Y
[deg] Pointing Roll	160.024372	160.1983071377296	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)	336125616.184000	336124409.75386	CCD S5 on	N	N
Observation start date	2008-08-26T08:12:31	2008-08-26T07:53:29	Number of optional ACIS chips dropped	0	0
[s] Observation end time (MET)	336167616.184000	336168449.90602	On-chip summing requested	N	N
Observation end date	2008-08-26T19:52:31	2008-08-26T20:07:29	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.2

2.3 Aspect



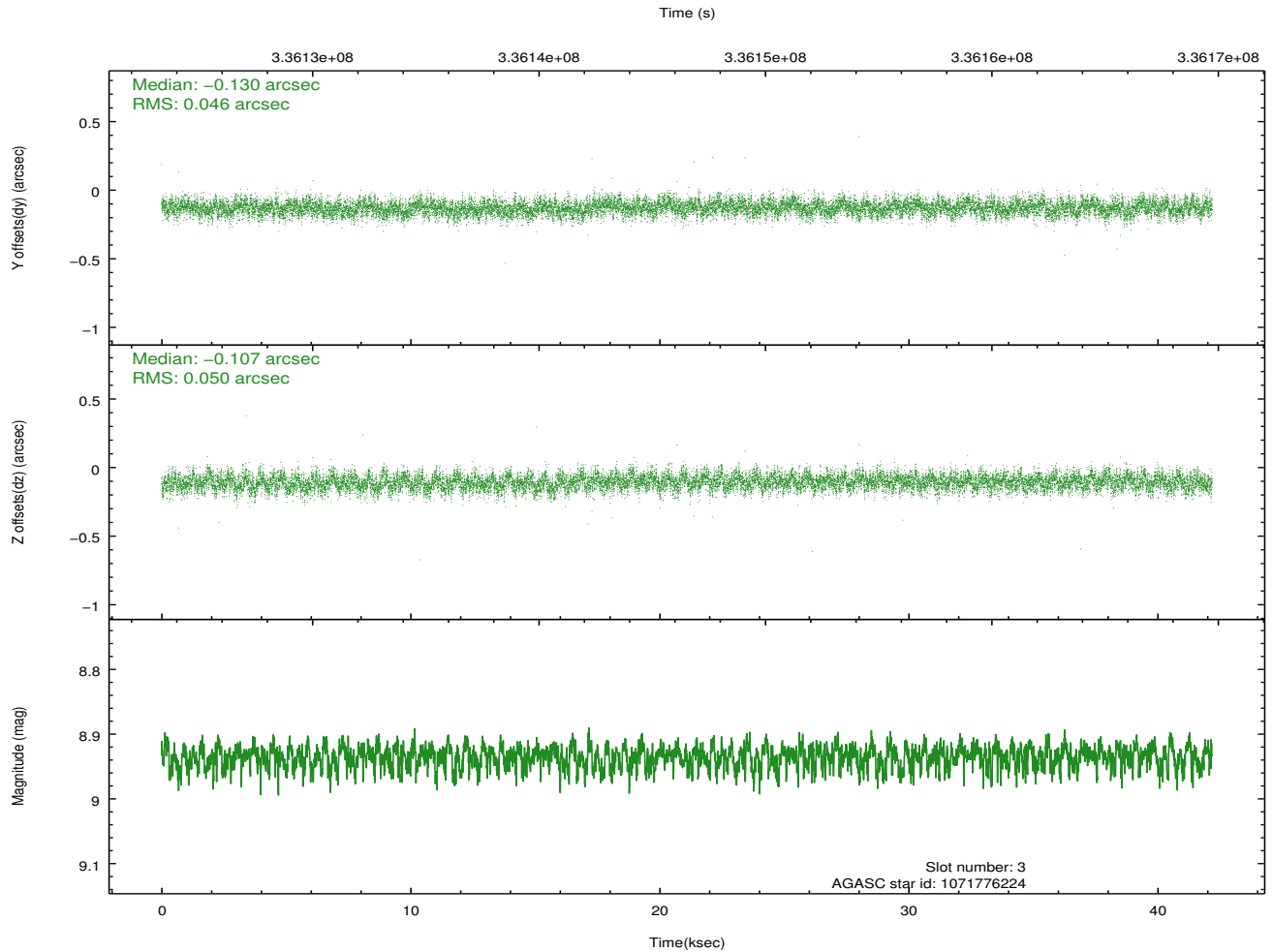
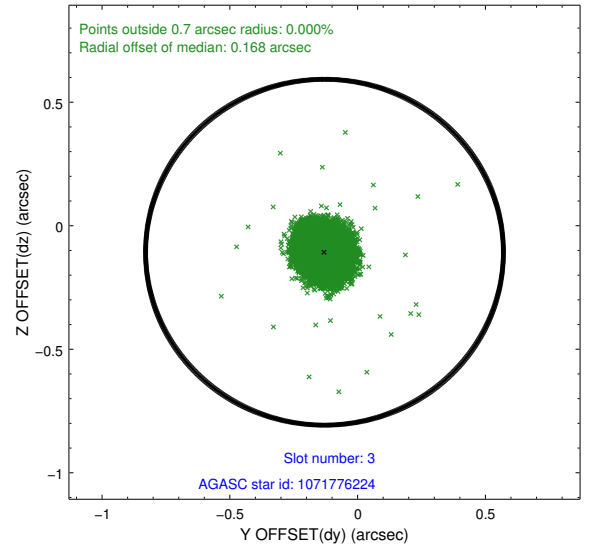
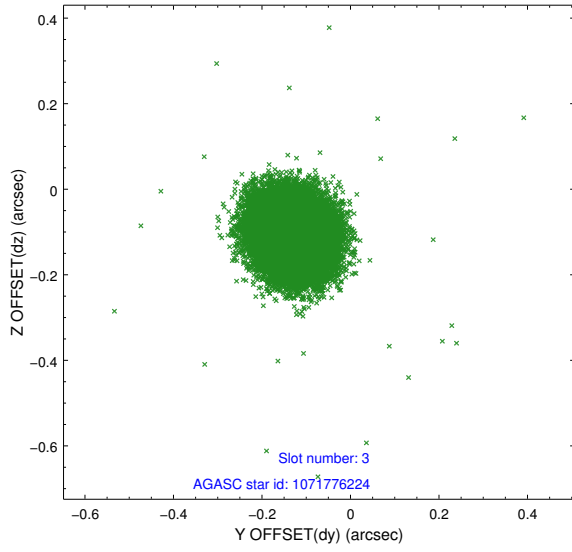


Slot Statistics

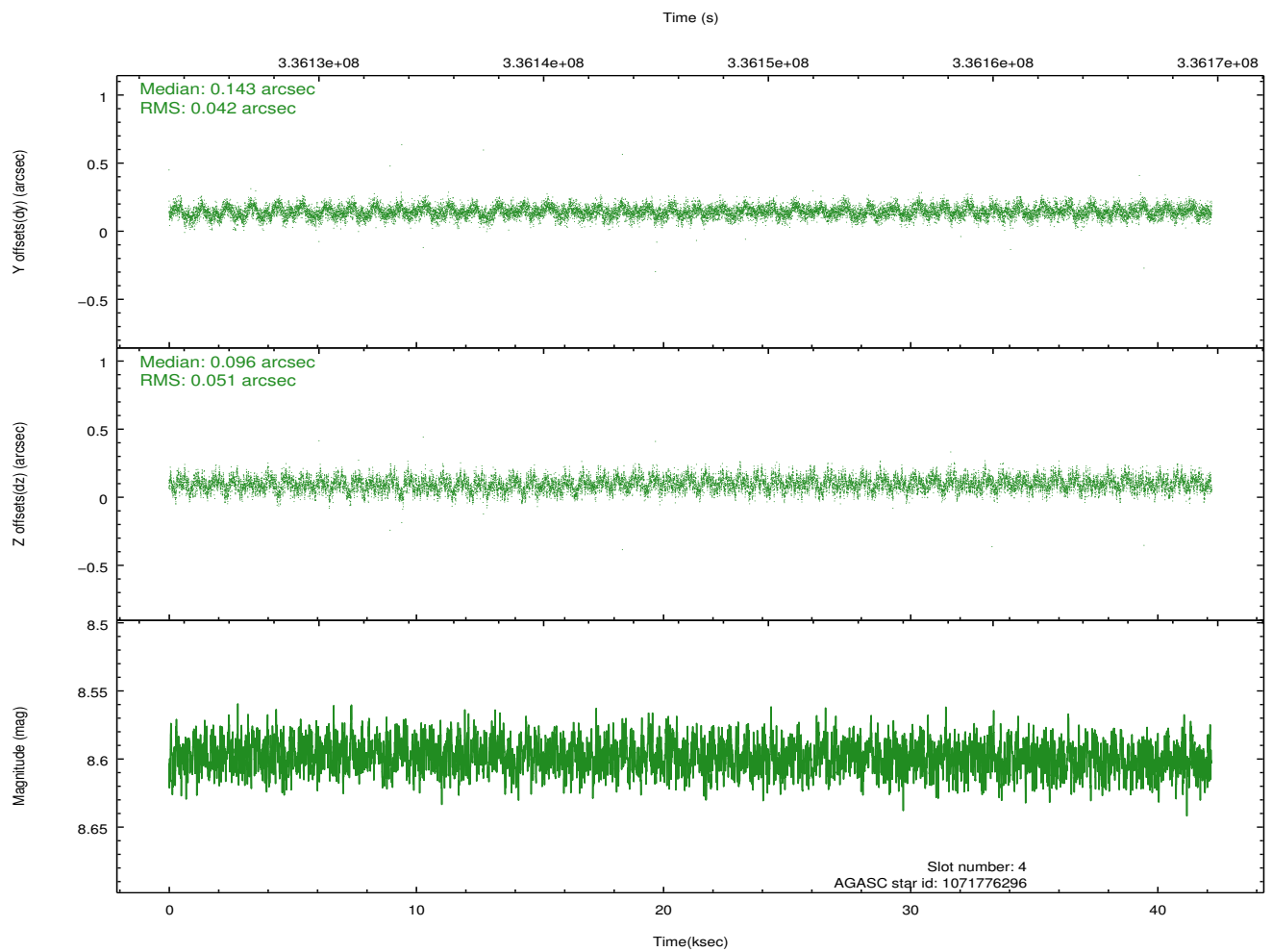
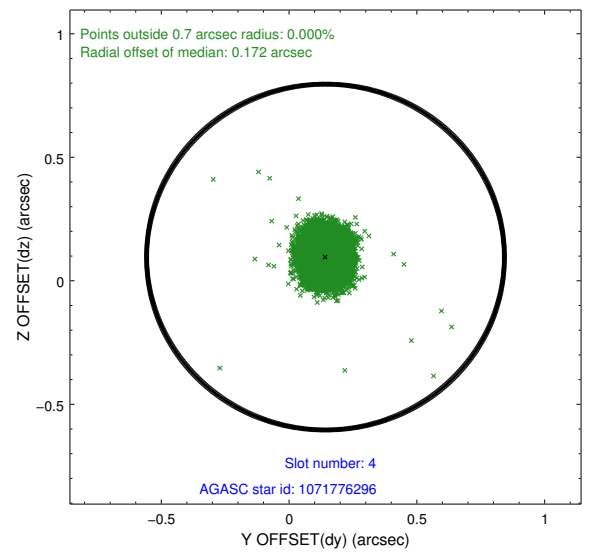
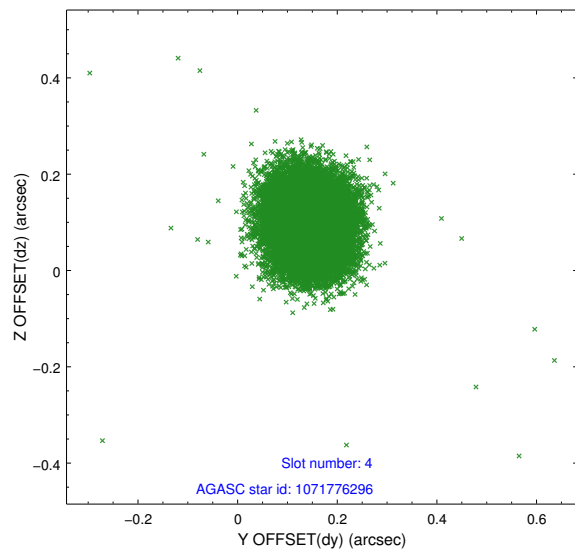
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.01	10289	0.044	-0.032	0.023	0.050	0.000000	0.000000	926.88	-839.16
1	FID	ACIS-I-5	6.99	10289	-0.192	0.049	0.014	0.021	0.000000	0.000000	-1821.45	1058.40
2	FID	ACIS-I-6	7.00	10290	0.056	0.049	0.013	0.040	0.000000	0.000000	392.44	1702.90
3	GUIDE	1071776224	8.93	20559	-0.130	-0.107	0.072	0.115	136.062540	-51.995967	1499.56	184.91
4	GUIDE	1071776296	8.60	20576	0.143	0.096	0.070	0.114	136.837010	-52.361465	-558.89	829.77
5	GUIDE	1071787192	8.38	20559	-0.092	-0.021	0.076	0.123	137.096513	-51.758333	-364.61	-1407.83
6	GUIDE	1071789888	8.96	20563	0.044	0.107	0.096	0.152	136.451135	-51.460781	1357.43	-1922.79
7	GUIDE	1071779648	8.67	20566	0.031	-0.067	0.088	0.143	137.777311	-51.635159	-1649.73	-2331.33

2.4 Star Slots

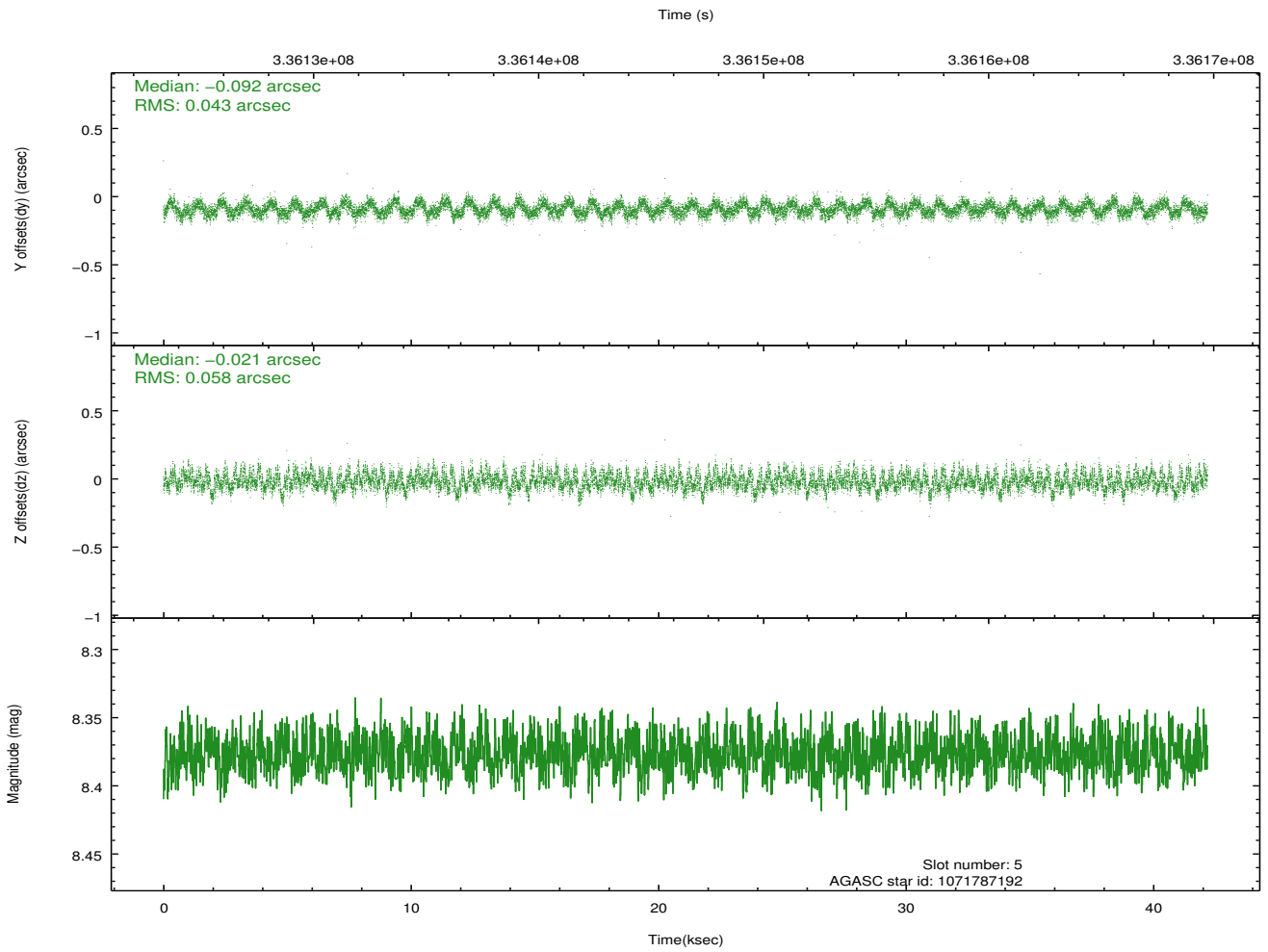
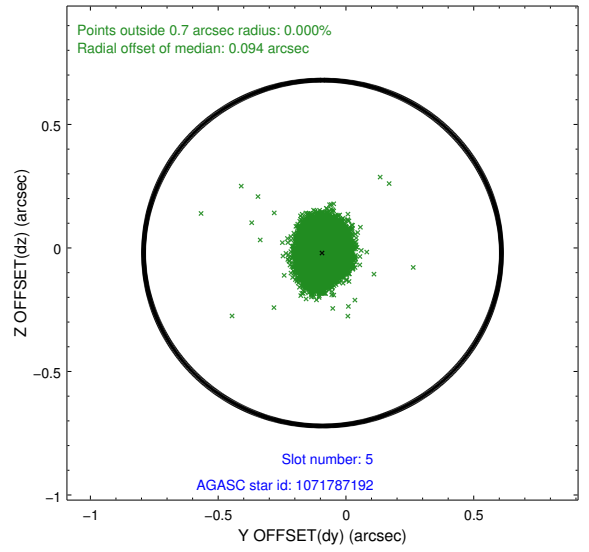
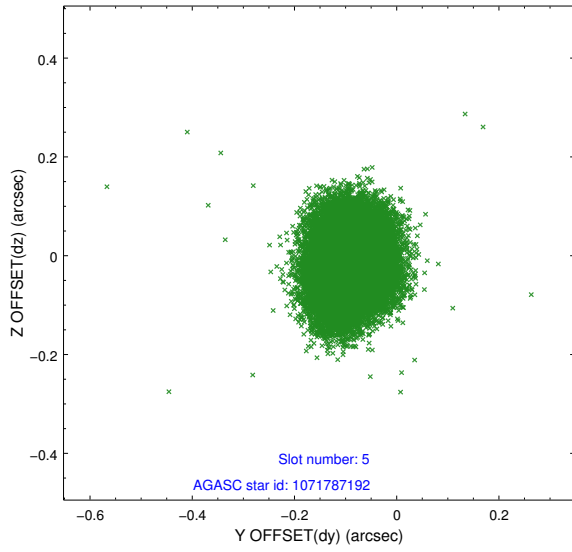
2.4.1 Slot 3



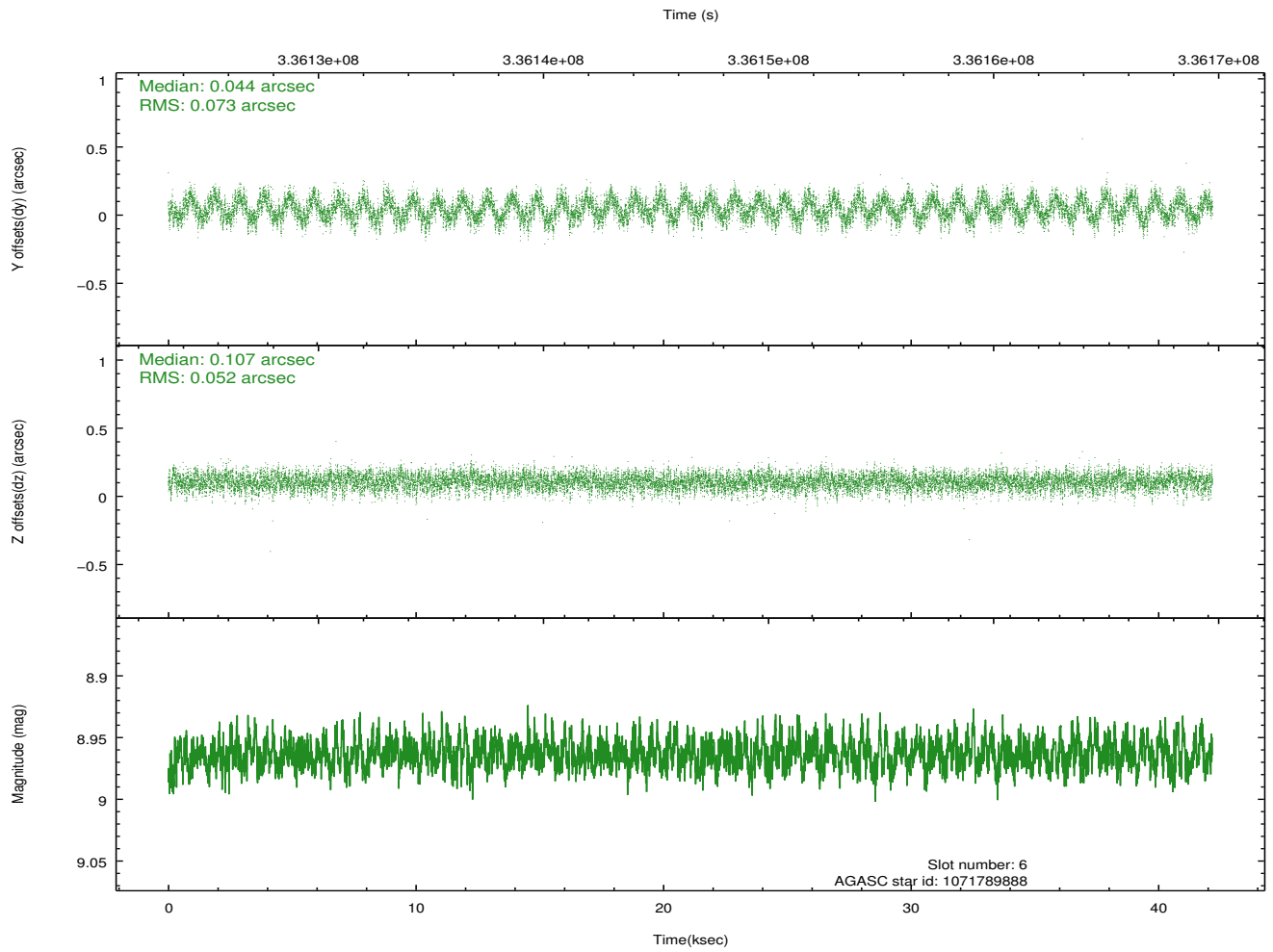
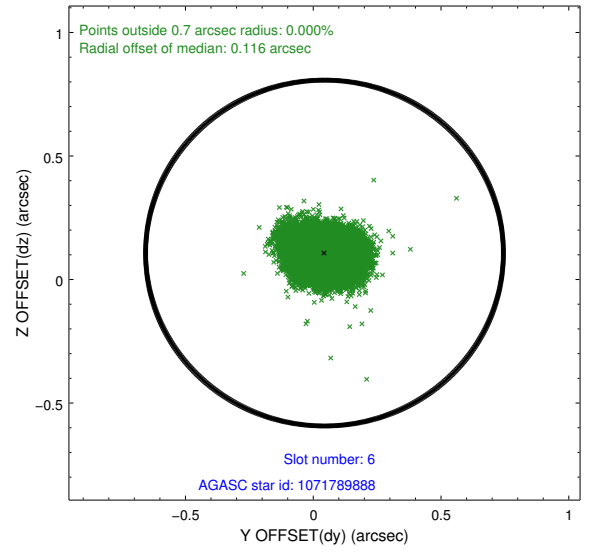
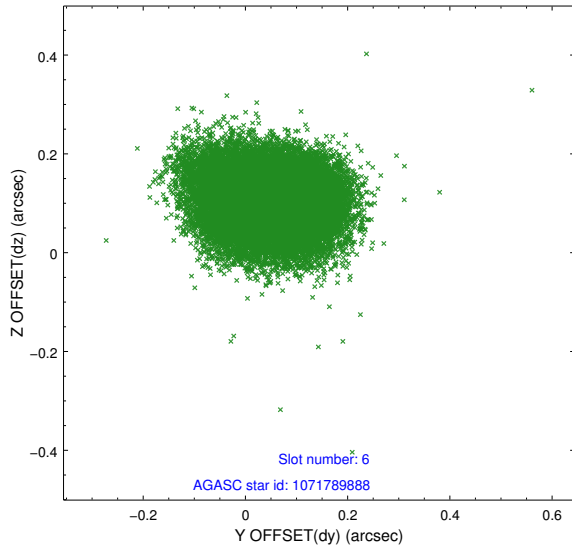
2.4.2 Slot 4



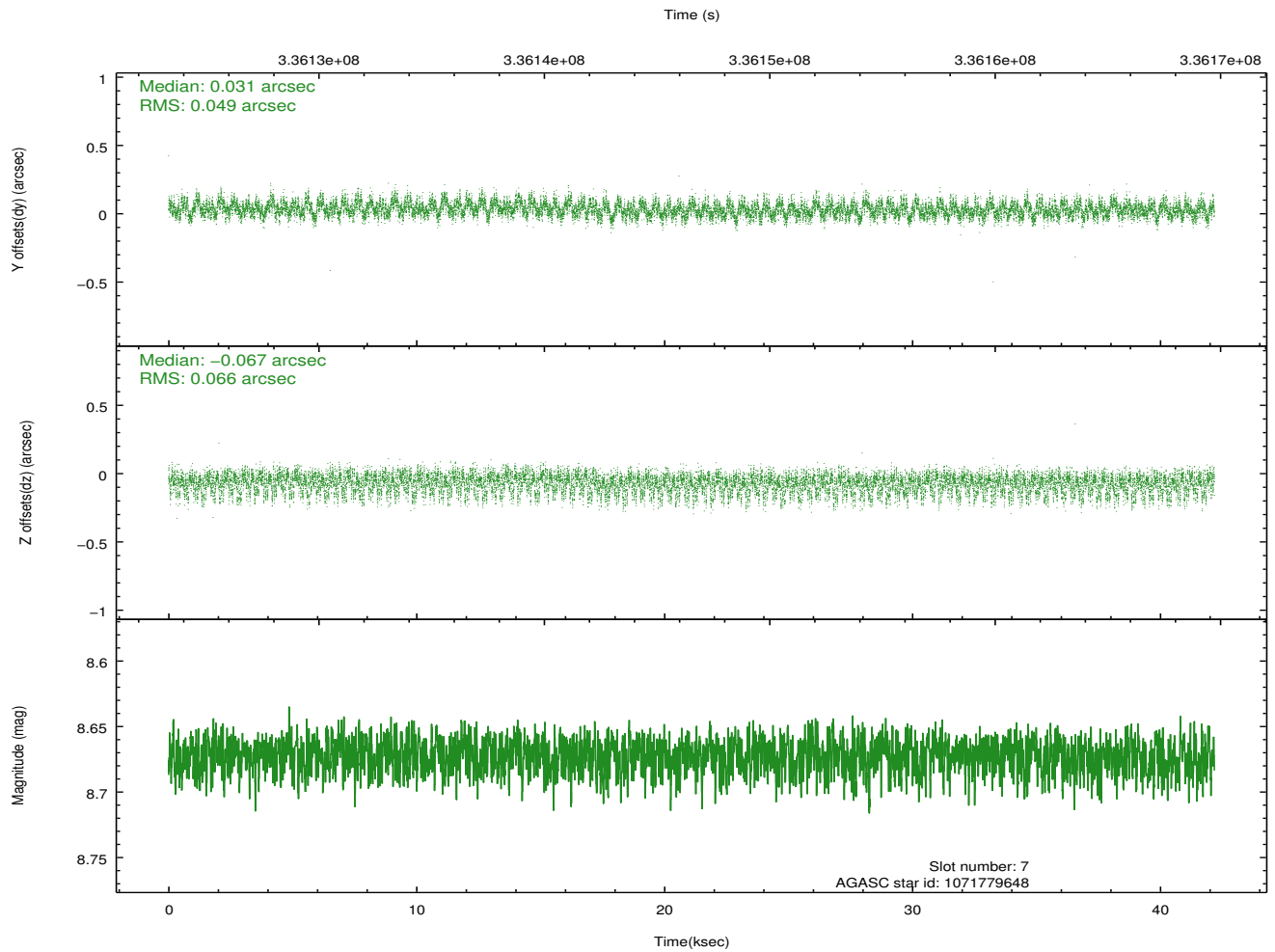
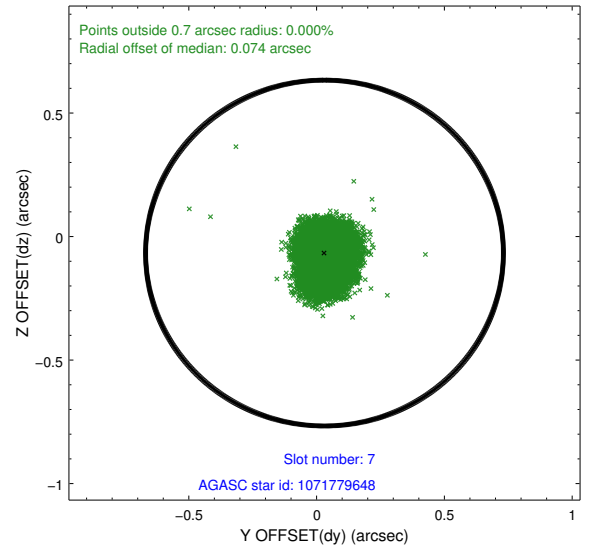
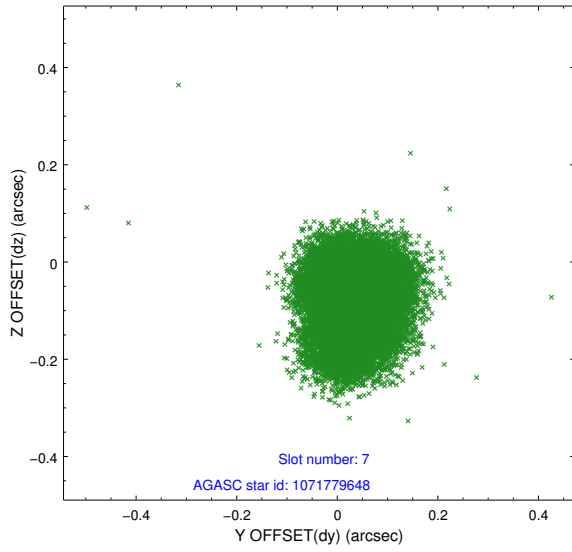
2.4.3 Slot 5



2.4.4 Slot 6

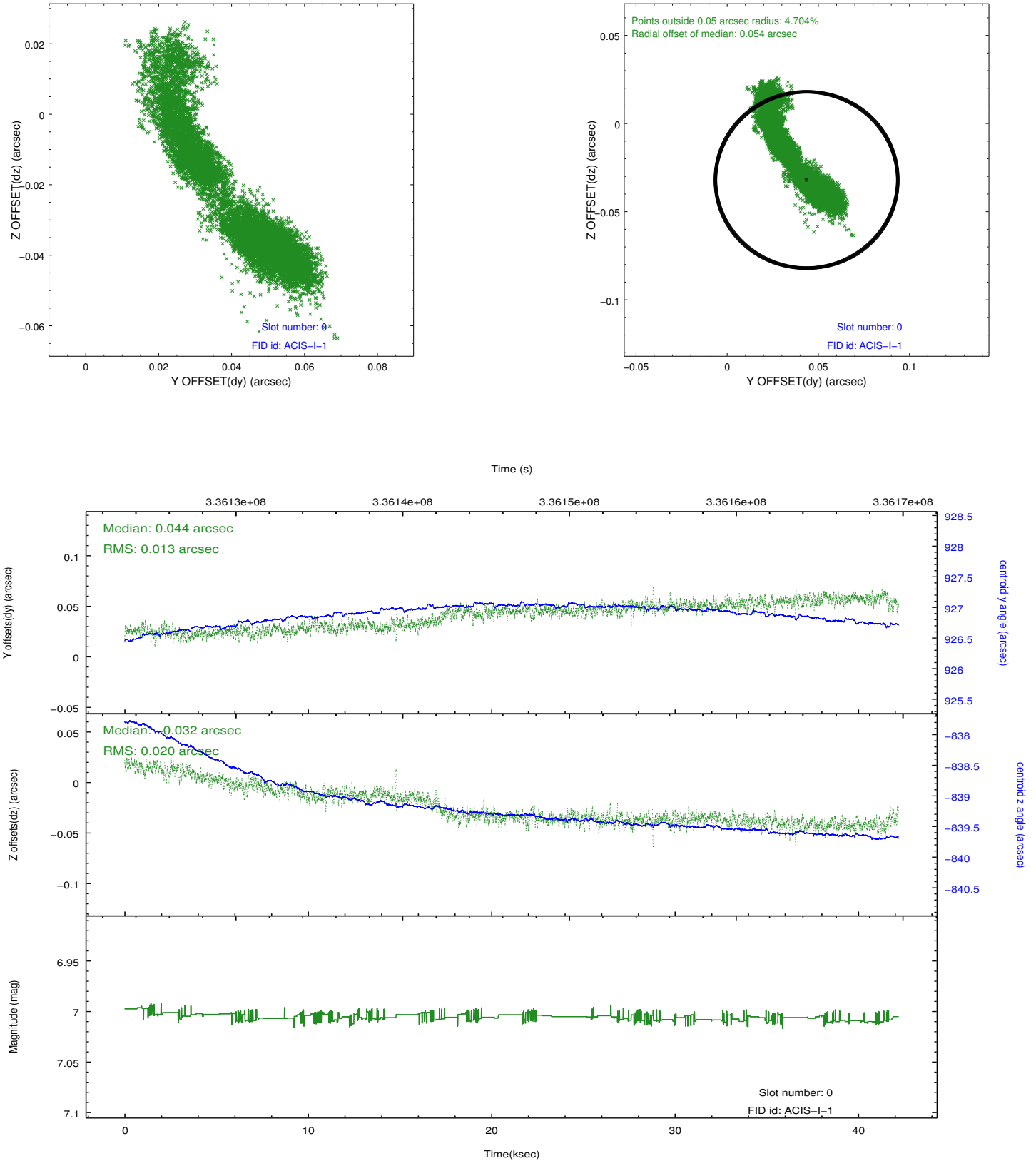


2.4.5 Slot 7

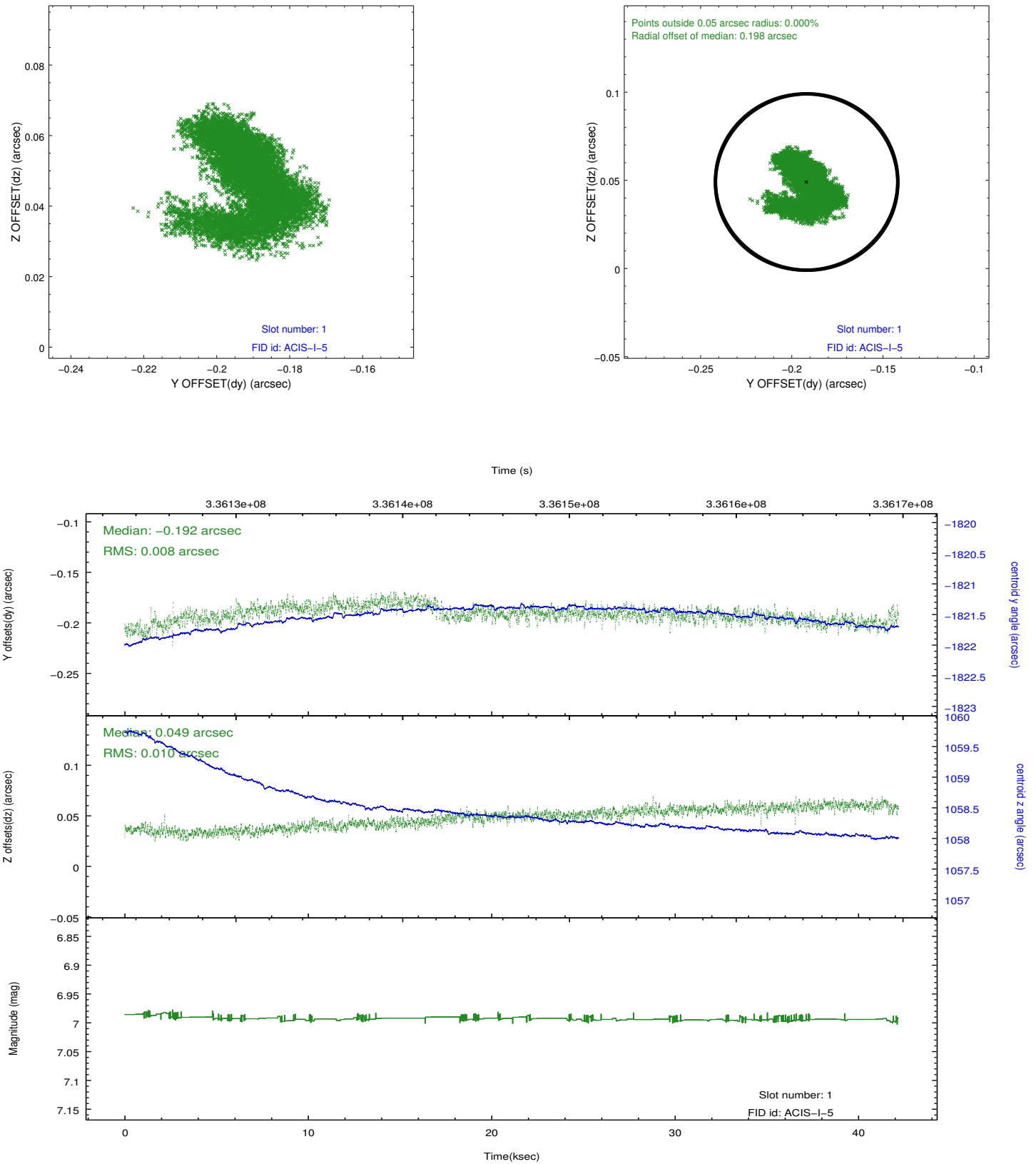


2.5 FID Slots

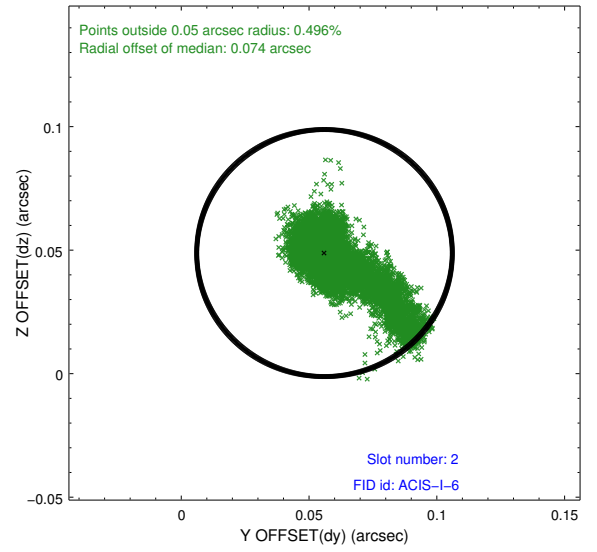
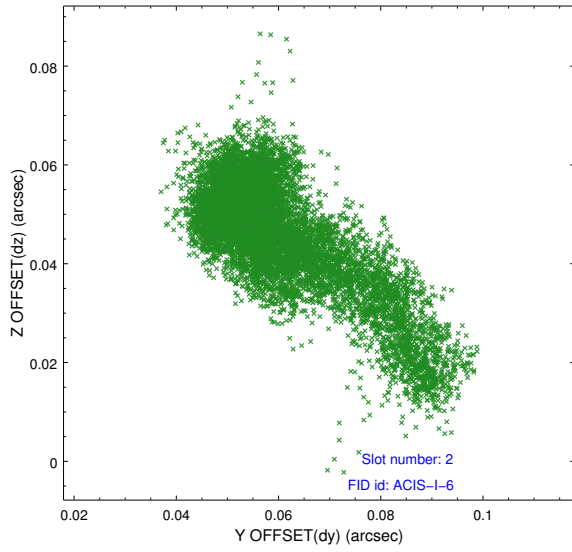
2.5.1 Slot 0



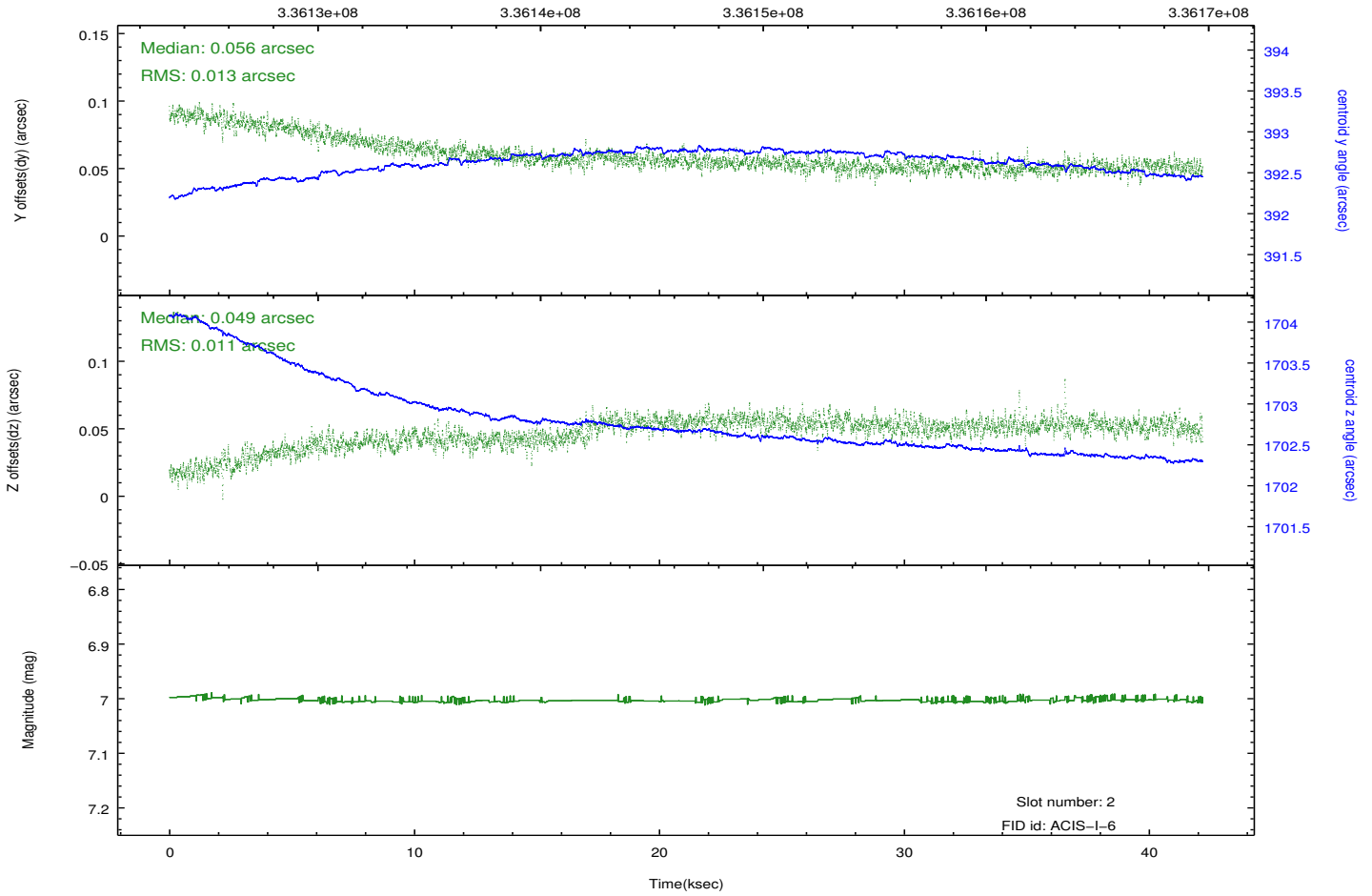
2.5.2 Slot 1



2.5.3 Slot 2



Time (s)



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.06.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	42.1727178

A.2 Comments

A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~ 20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:
(136.73655, -52.23984), (136.73830, -52.23689), (136.61518, -52.20972), (136.61343, -52.21267)