

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 4989 - L2 Version 3
Chandra X-Ray Center

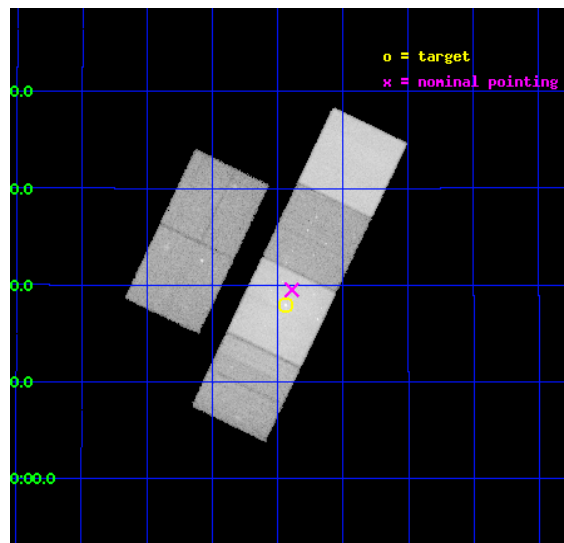
L2 Processing Date : Nov 12 2012

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1 Front

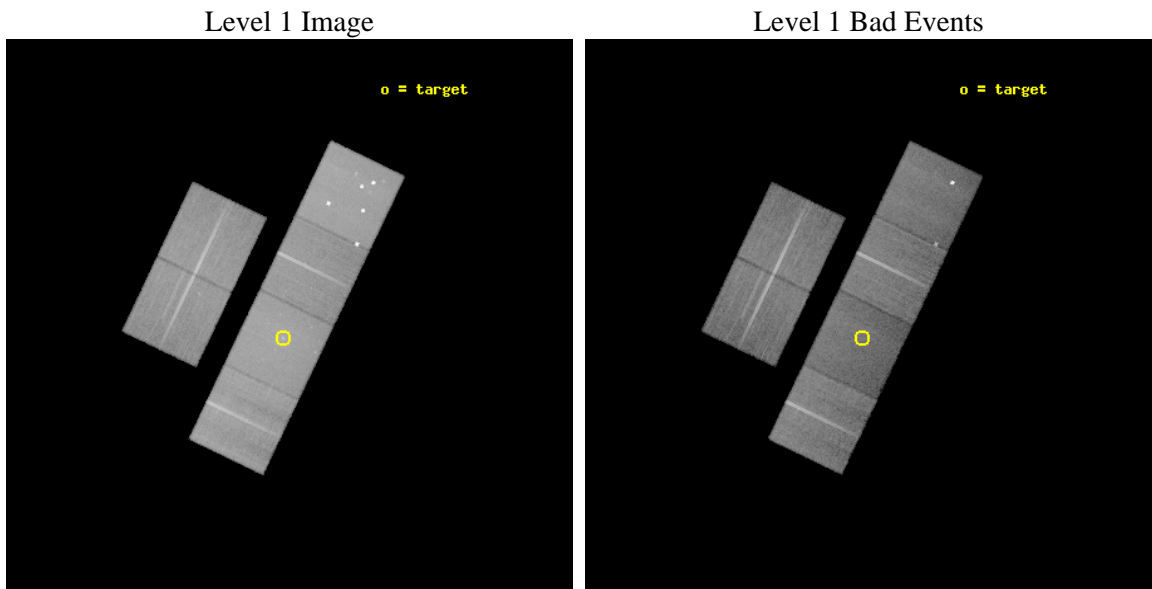
seq_num	800432	Sequence number
obs_id	4989	Observation id
title	X-Ray Bright Hickson Compact Groups: the Origin and Distribution of Metallicity and the Regulation of Cooling Flows	Proposal title
observer	Dr. Jan Vrtillek	Principal investigator
object	HCG 51	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	170.61	Observer's specified target RA [deg]
dec_targ	24.298333	Observer's specified target Dec [deg]
ra_nom	170.59793317041	Nominal RA [deg]
dec_nom	24.325258065233	Nominal Dec [deg]
roll_nom	115.66160091962	Nominal Roll [deg]
revision	3	Processing version of data
ontime	39033.599854589	Sum of GTIs [s]
livetime	38539.332910018	Livetime [s]
ontime2	39033.599854589	Sum of GTIs [s]
ontime3	39033.599854589	Sum of GTIs [s]
ontime5	39033.599854589	Sum of GTIs [s]
ontime6	39033.599854589	Sum of GTIs [s]
ontime7	39033.599854589	Sum of GTIs [s]
ontime8	39023.876963556	Sum of GTIs [s]
l2events	585388	Number of level 2 events



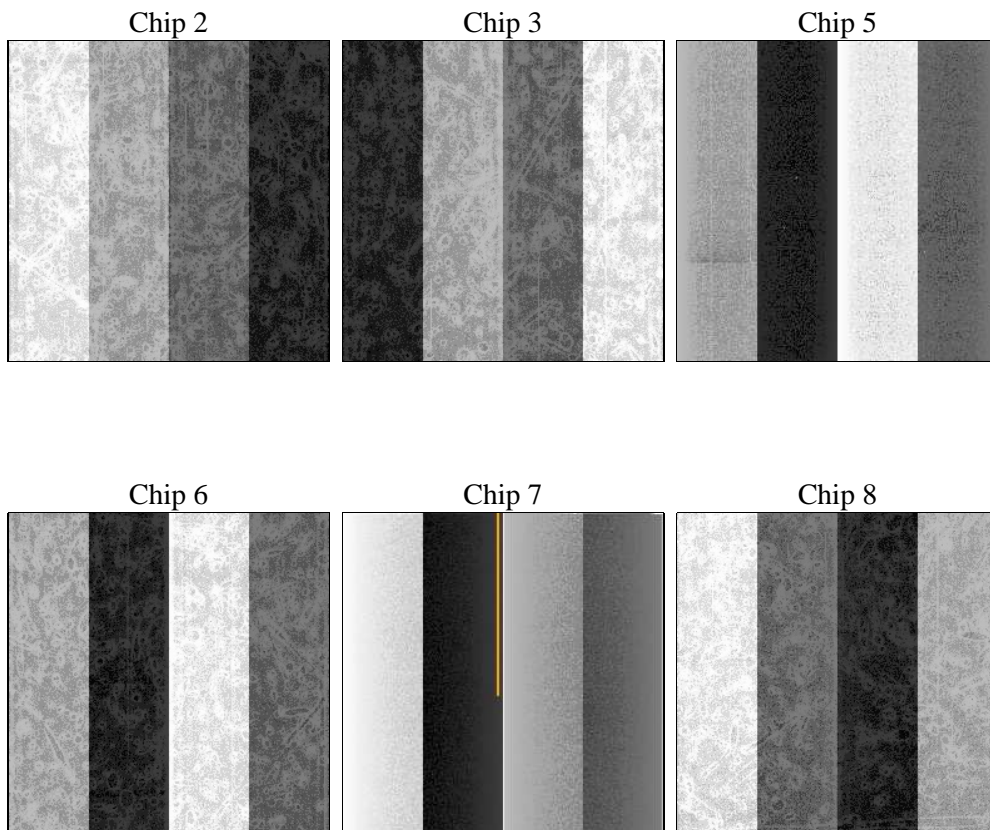
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	38881.628000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	39033.599854589	Sum of GTIs [s]
caldbver	4.5.2	 	ontime2	39033.599854589	Sum of GTIs [s]
date	2012-11-12T00:23:06	Date and time of file creation	ontime3	39033.599854589	Sum of GTIs [s]
revision	3	Processing version of data	ontime5	39033.599854589	Sum of GTIs [s]
			ontime6	39033.599854589	Sum of GTIs [s]
			ontime7	39033.599854589	Sum of GTIs [s]
			ontime8	39023.876963556	Sum of GTIs [s]
			l1events	1804232	Number of level 1 events

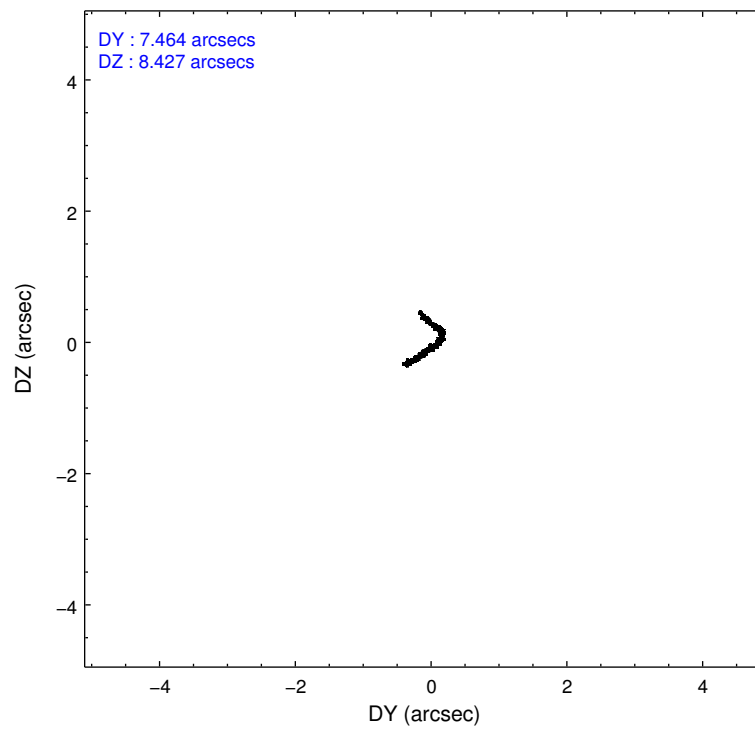
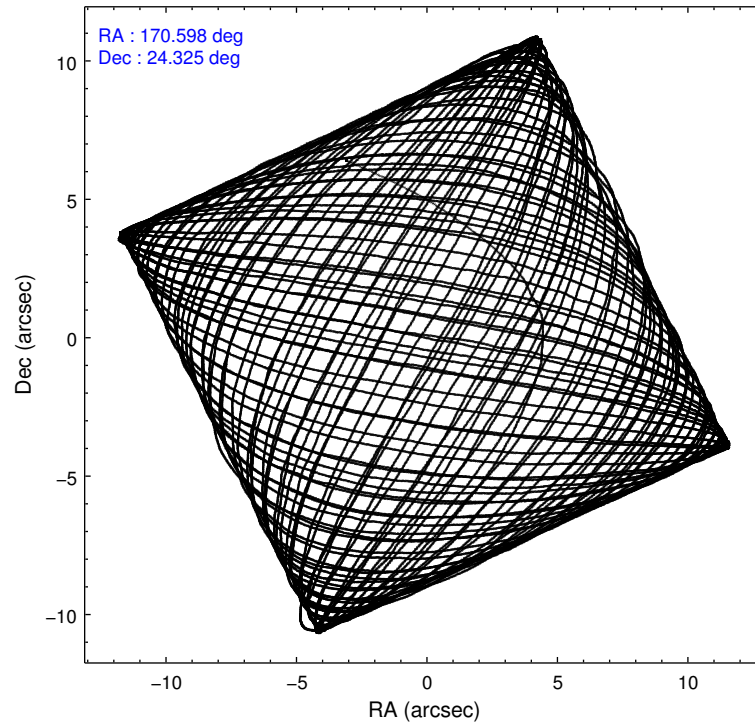
2.1.4 Events

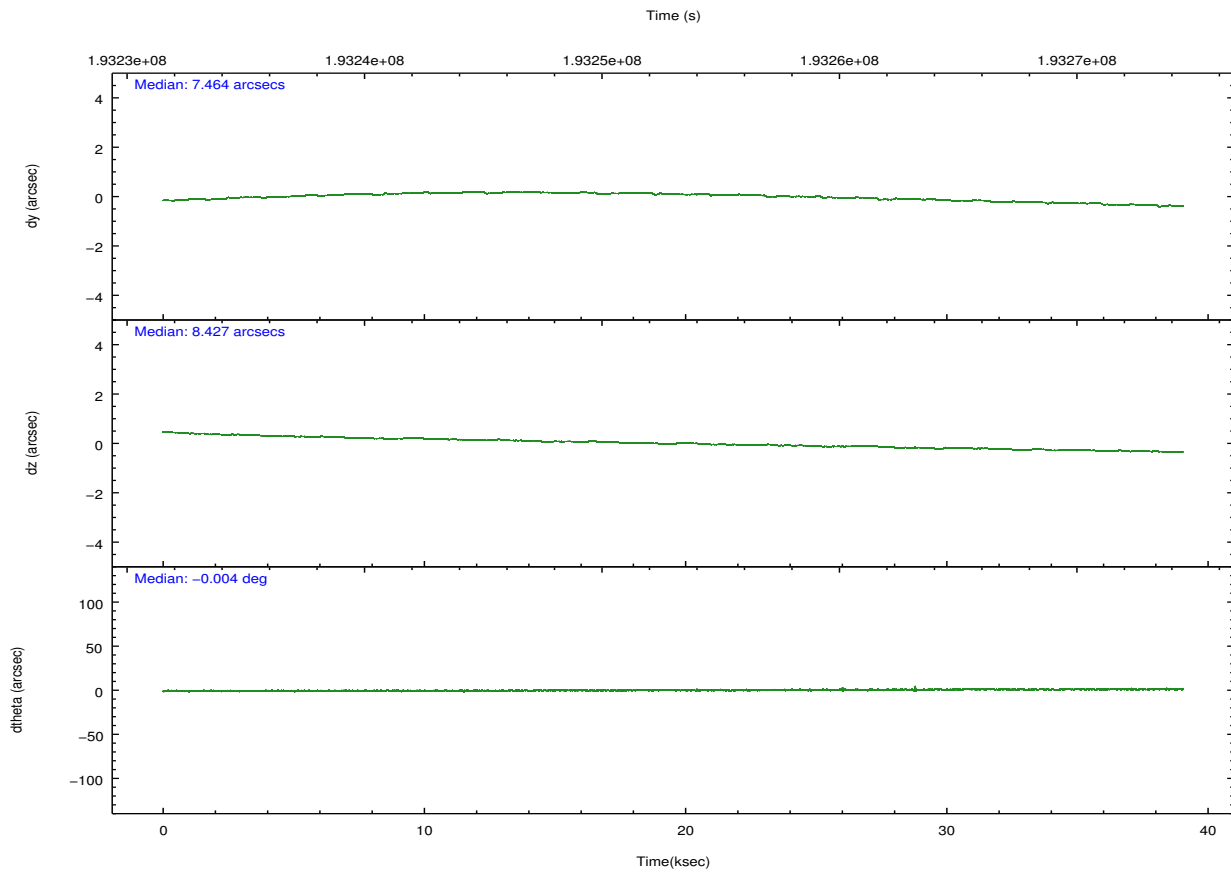
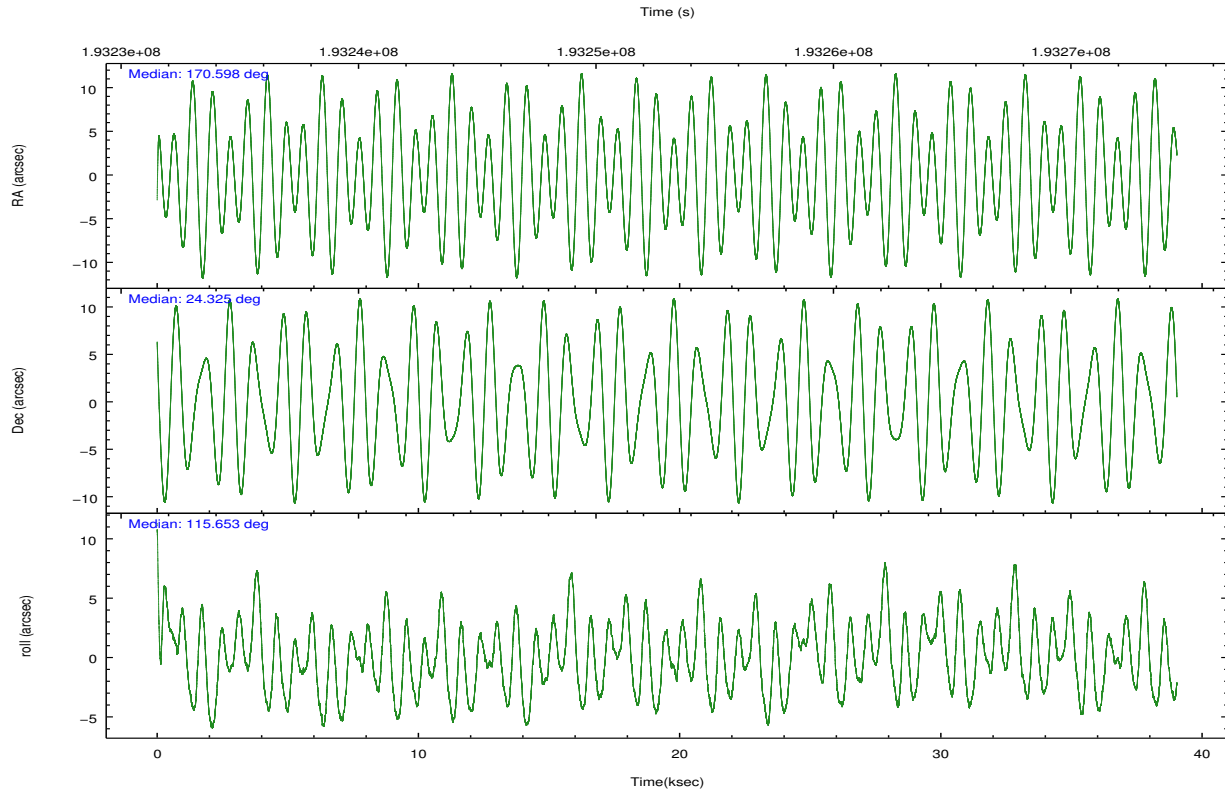
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8		ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	262547	241202	401777	255926	327958	314822	grade 0 events	28230	28368	50791	33464	23567	49949
rejected events	211892	190591	167115	197144	135574	212119		10%	11%	12%	13%	7%	15%
rejected %	80%	79%	41%	77%	41%	67%	grade 1 events	234	230	543	206	218	300
								0%	0%	0%	0%	0%	0%
							grade 2 events	8533	8093	61874	9296	37316	18270
								3%	3%	15%	3%	11%	5%
							grade 3 events	3769	3909	10720	4089	17605	8347
								1%	1%	2%	1%	5%	2%
							grade 4 events	3805	3862	9335	4064	16985	7951
								1%	1%	2%	1%	5%	2%
							grade 5 events	7395	8429	24955	8728	25703	12014
								2%	3%	6%	3%	7%	3%
							grade 6 events	7036	7094	107059	8625	100454	20164
								2%	2%	26%	3%	30%	6%
							grade 7 events	203545	181217	136500	187454	106110	197827
								77%	75%	33%	73%	32%	62%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	170.622843	170.5979331704092	Subarray requested	NONE	NONE
[deg] Pointing Dec	24.310198	24.32525806523267	Alternating exposures requested	N	N
[deg] Pointing Roll	115.494710	115.6616009196174	[s] Primary exposure time	0.000000	3.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1425803651734			
[mm] SIM translation stage offset	0	0.01005778216563158			
[s] Observation start time (MET)	193233628.184000	193231927.48191			
Observation start date	2004-02-15T11:59:24	2004-02-15T11:32:07			
[s] Observation end time (MET)	193272510.184000	193272824.4712			
Observation end date	2004-02-15T22:47:26	2004-02-15T22:53:44			
Read mode	TIMED	TIMED			

2.3 Aspect



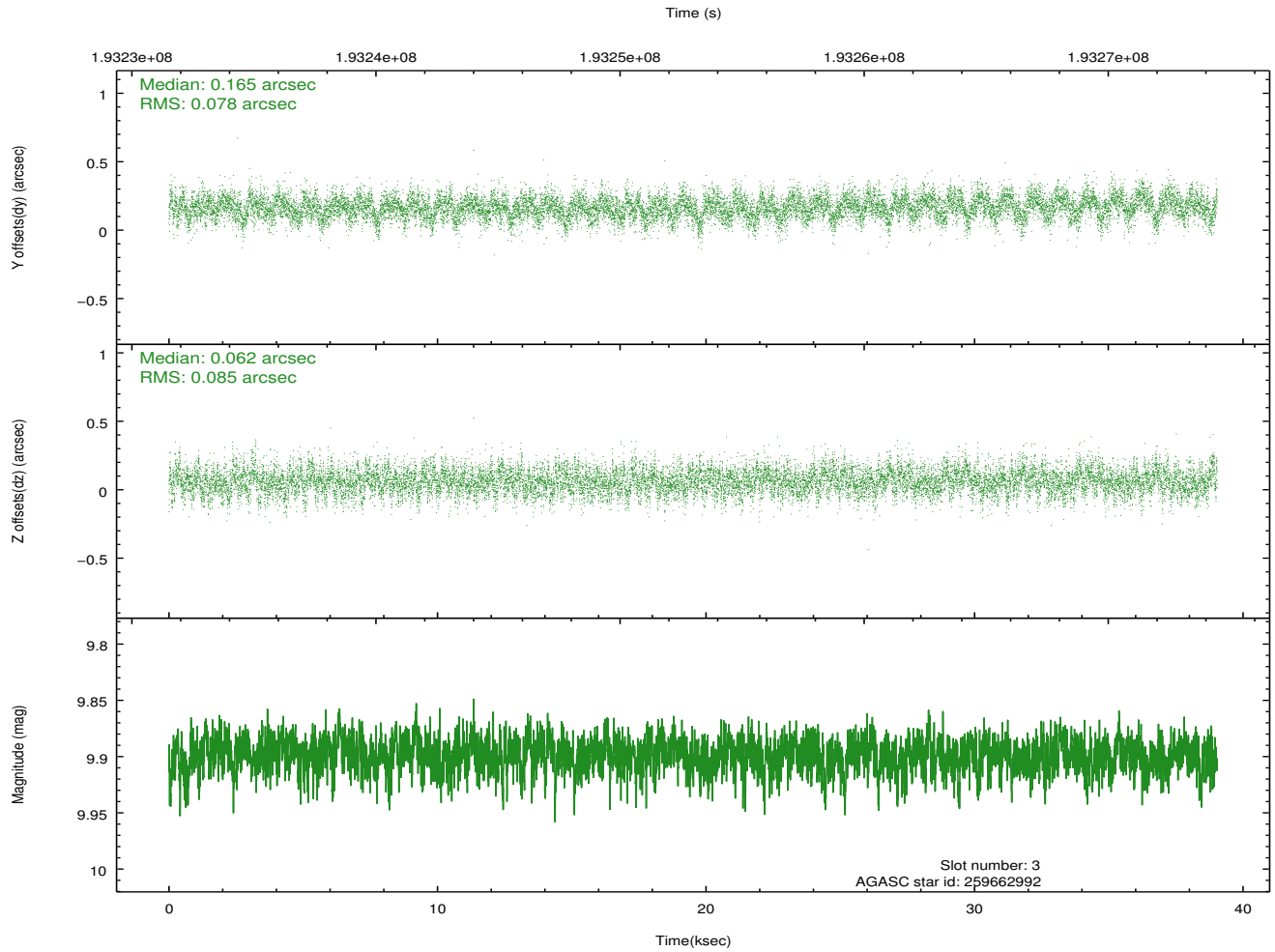
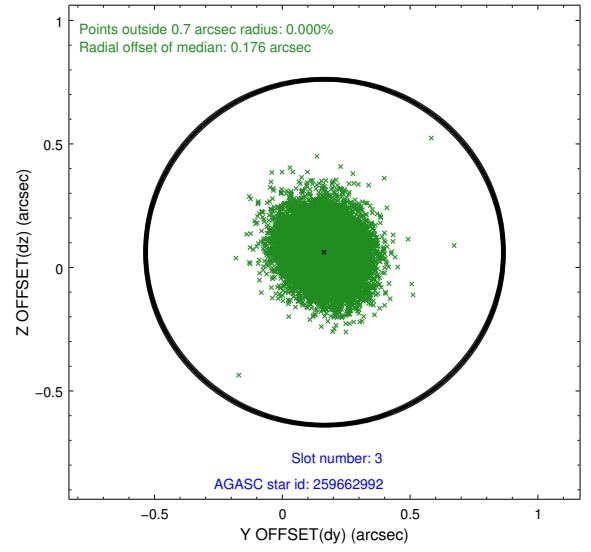
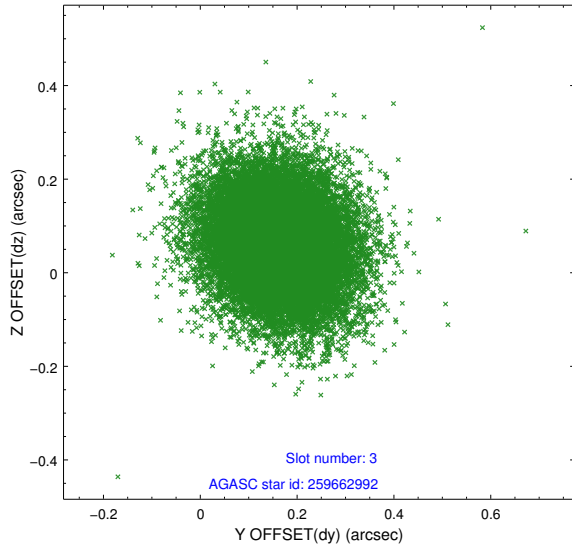


Slot Statistics

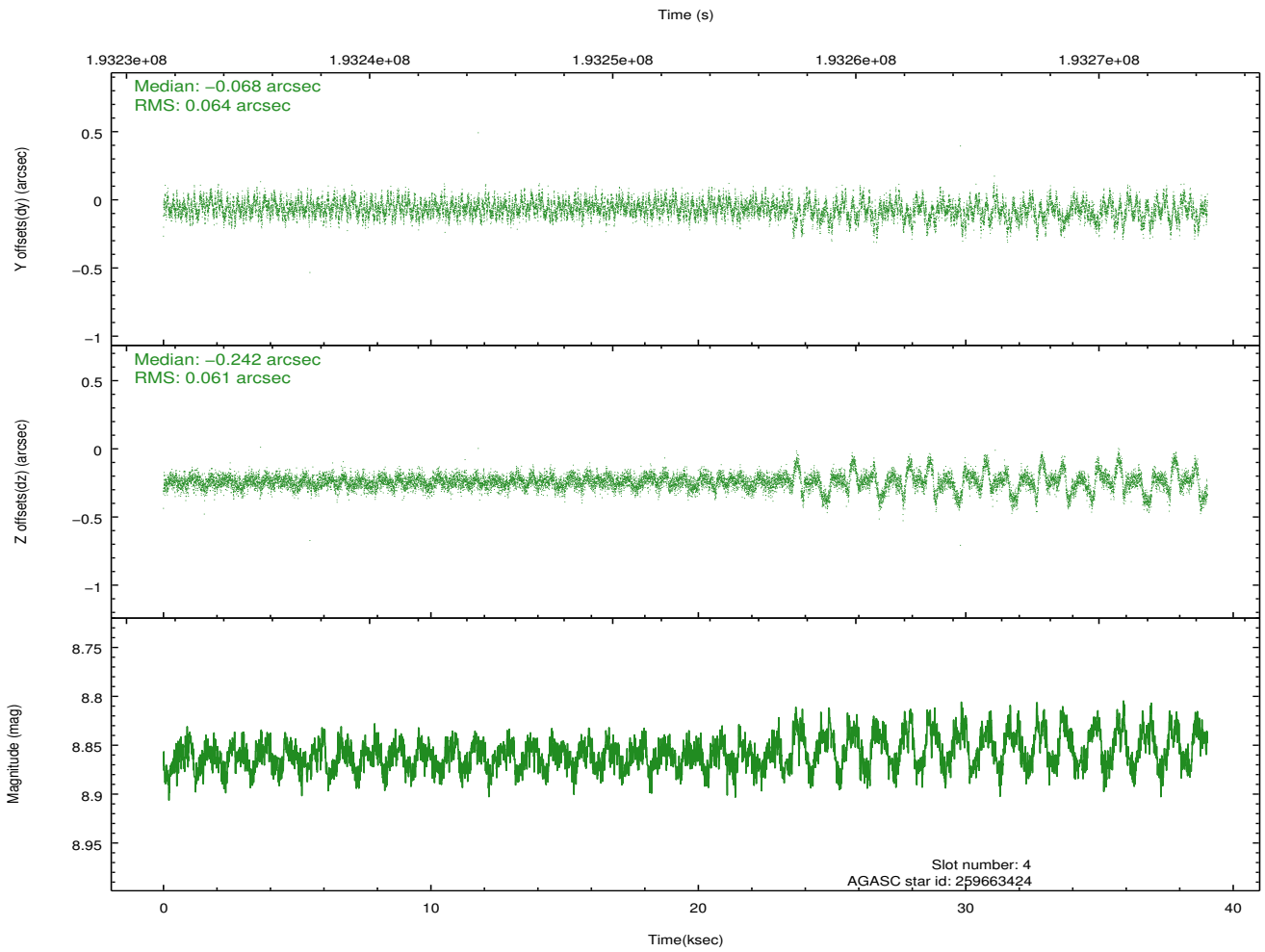
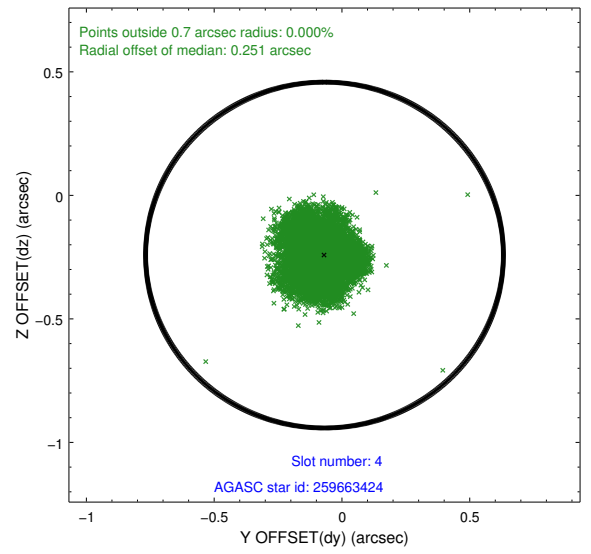
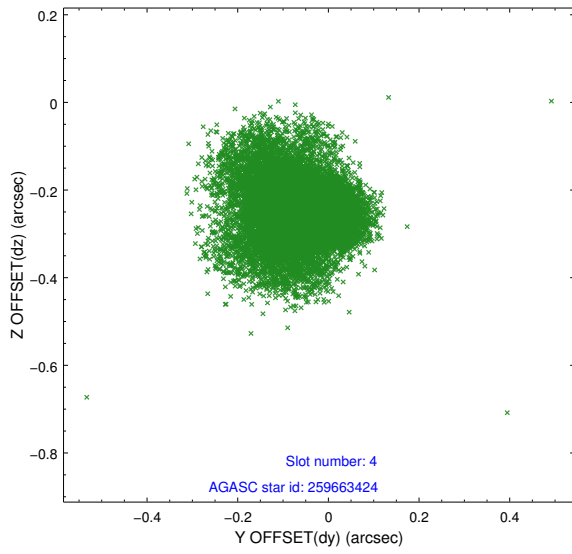
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	9522	-0.006	-0.036	0.007	0.012	0.000000	0.000000	-760.21	-1729.62
1	FID	ACIS-S-4	7.20	9521	0.054	0.013	0.008	0.014	0.000000	0.000000	2153.12	178.88
2	FID	ACIS-S-5	7.23	9520	-0.079	0.032	0.010	0.017	0.000000	0.000000	-1813.09	172.60
3	GUIDE	259662992	9.90	19023	0.165	0.062	0.123	0.200	170.634435	23.634300	-2212.42	1012.93
4	GUIDE	259663424	8.86	19038	-0.068	-0.242	0.089	0.166	170.243291	23.834131	-1007.60	1865.13
5	GUIDE	259663456	8.70	19040	-0.224	0.031	0.071	0.115	170.962709	24.951050	1606.46	-1994.16
6	GUIDE	259665288	8.62	19042	0.118	0.167	0.061	0.100	170.672049	24.733578	1307.18	-800.72
7	GUIDE	259665864	9.69	19030	0.011	-0.017	0.115	0.181	170.950609	24.417770	-111.53	-1136.68

2.4 Star Slots

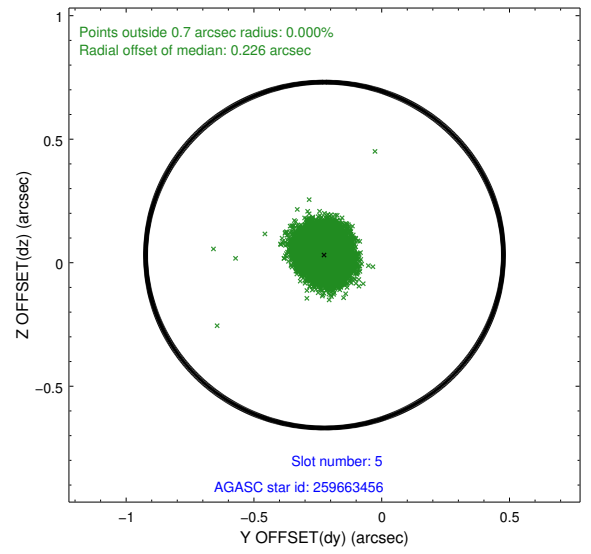
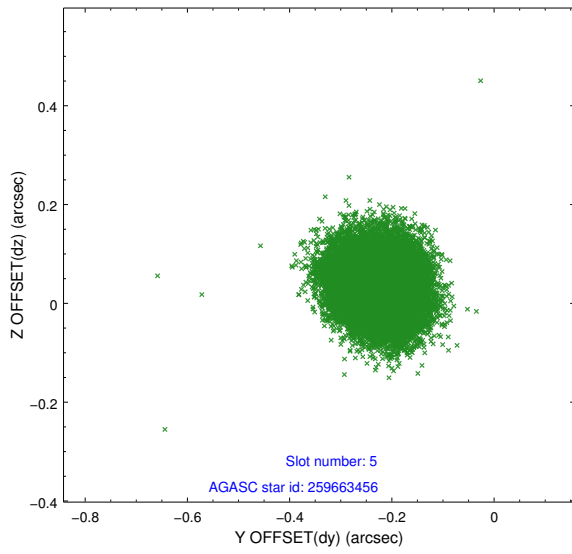
2.4.1 Slot 3



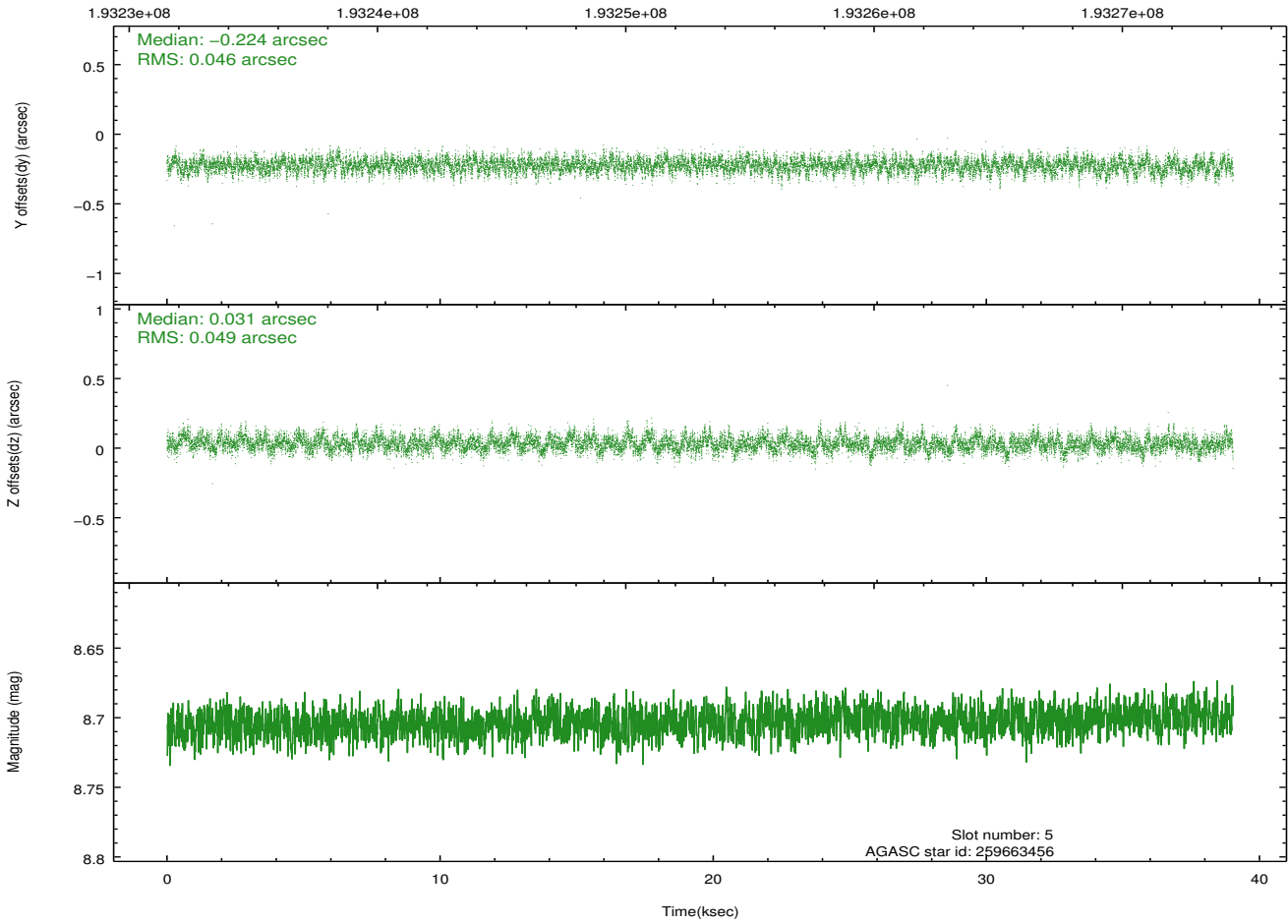
2.4.2 Slot 4



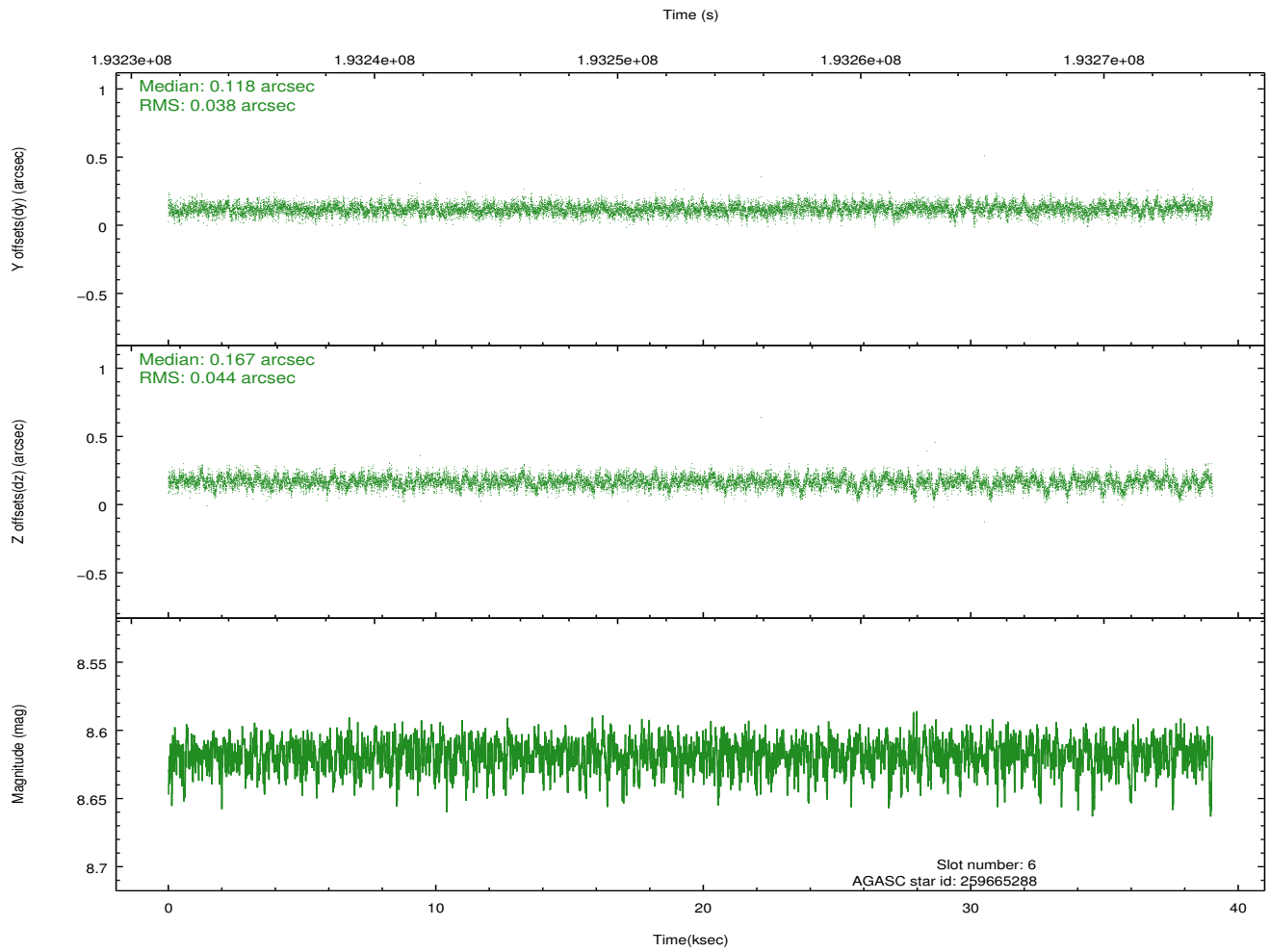
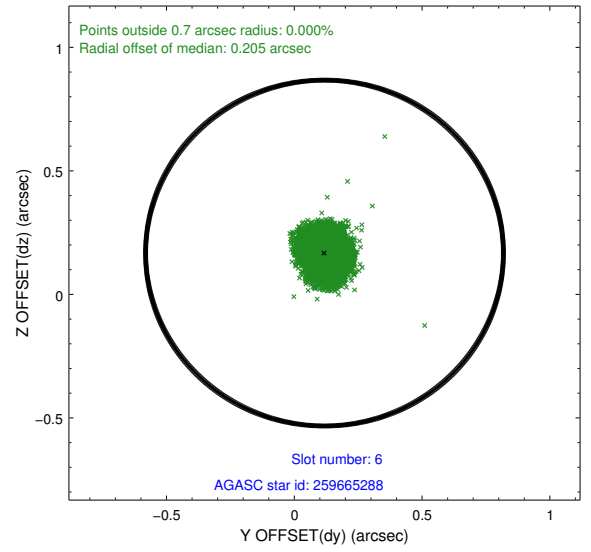
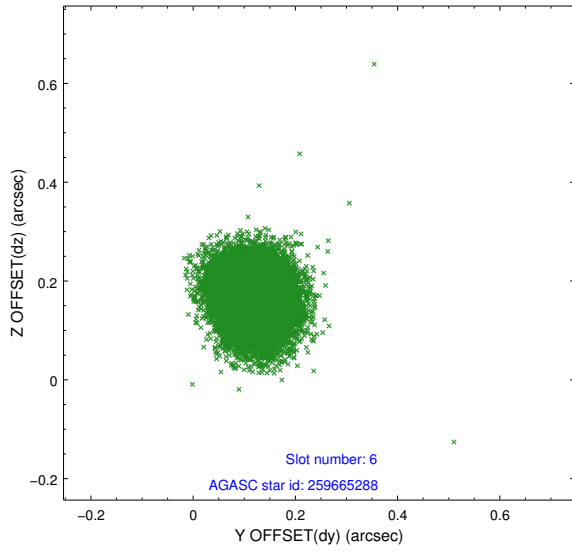
2.4.3 Slot 5



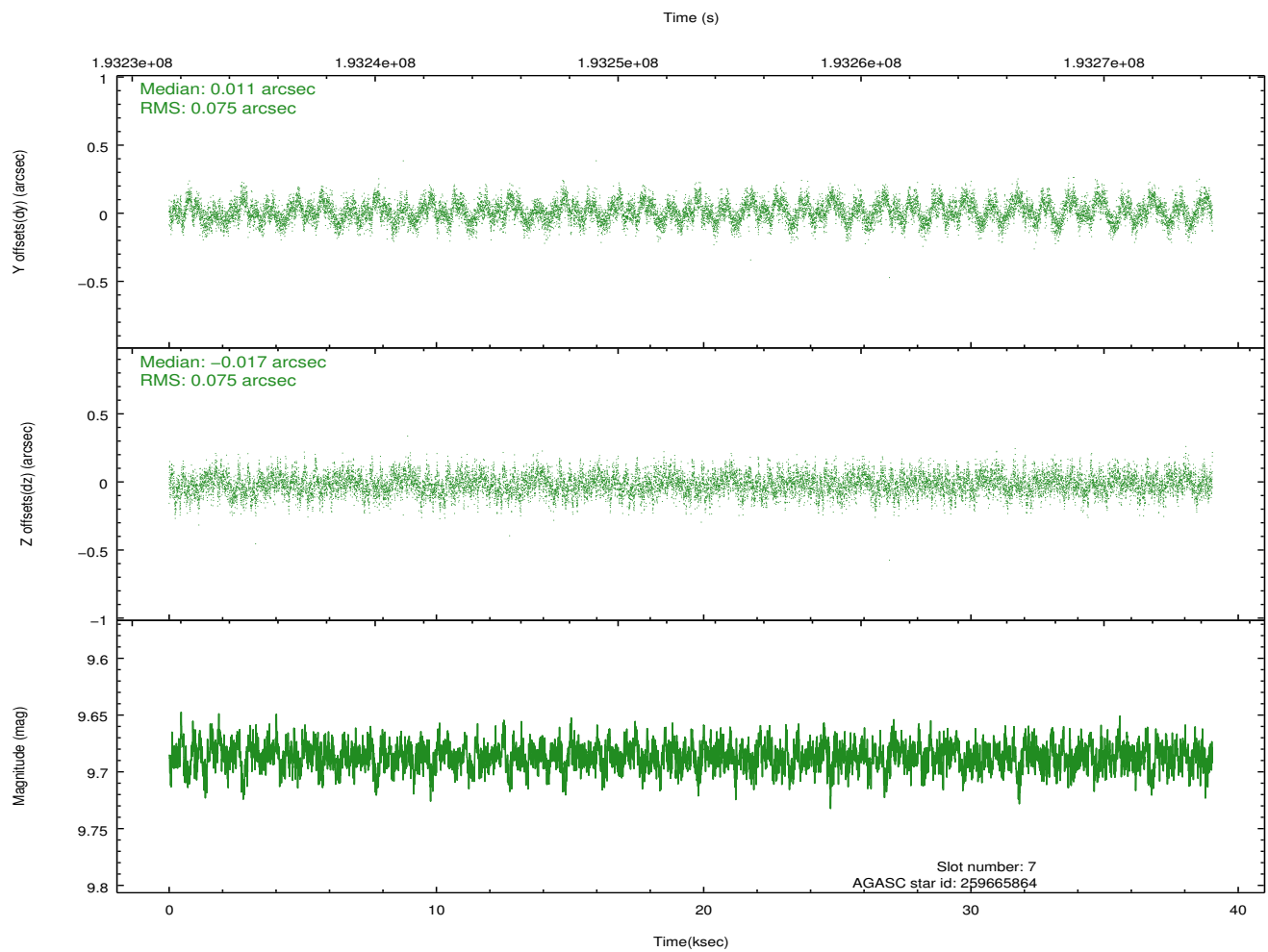
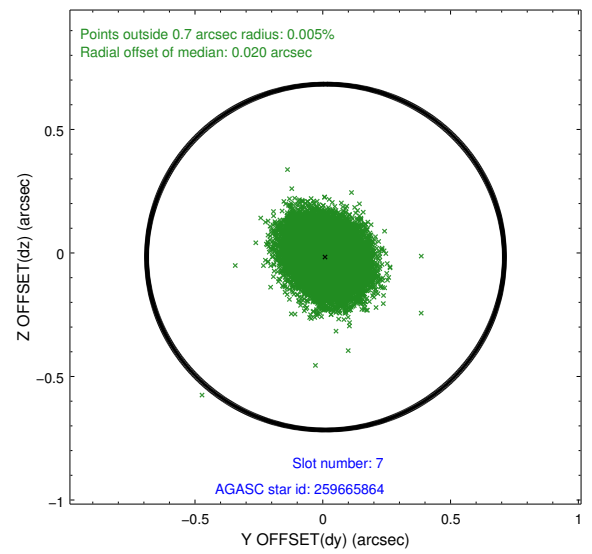
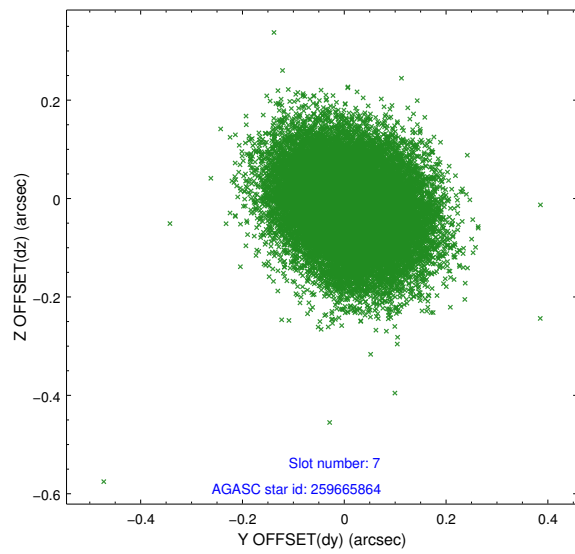
Time (s)



2.4.4 Slot 6

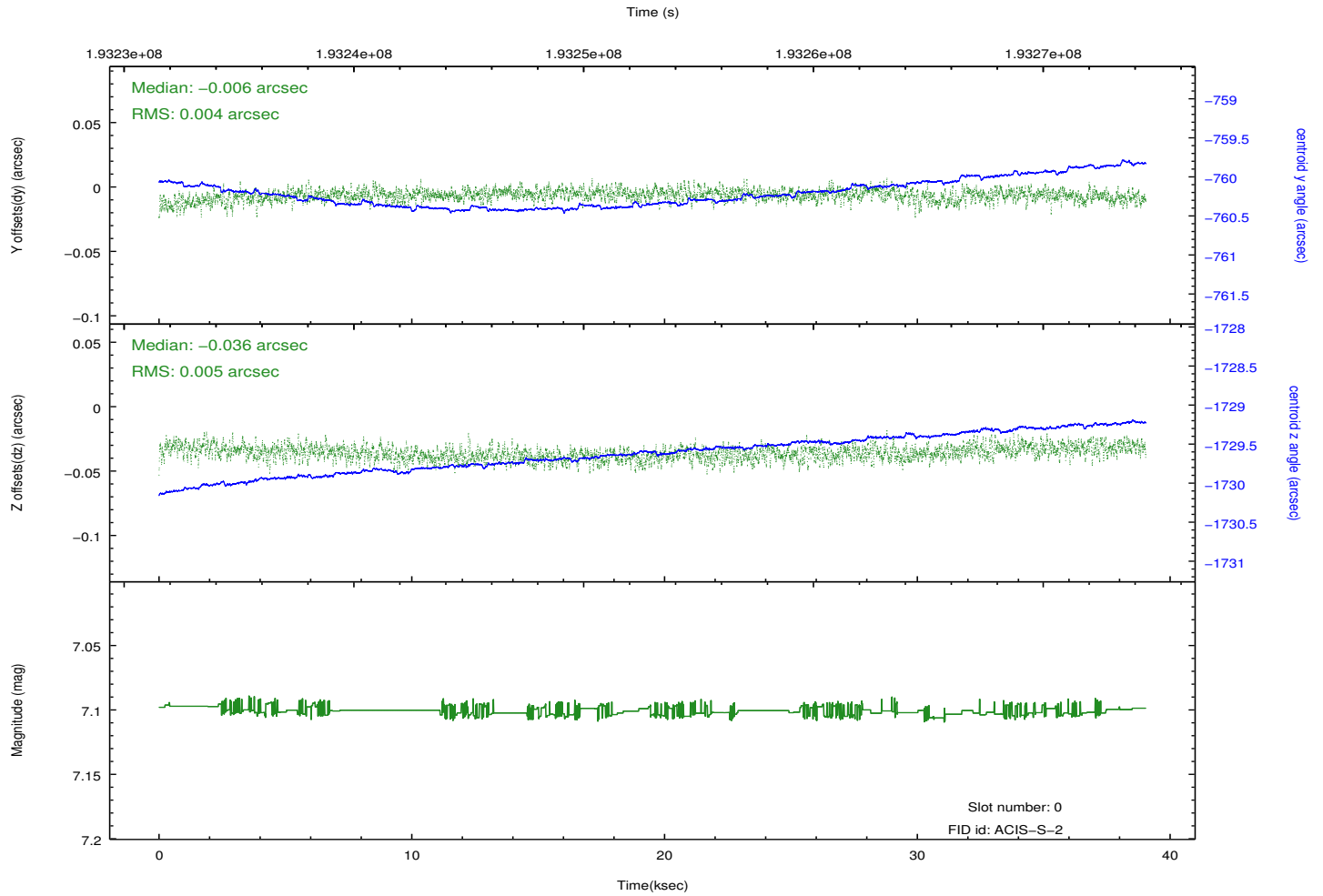
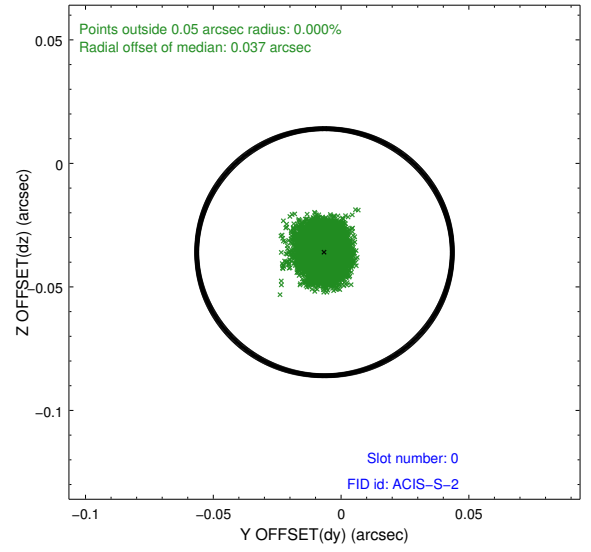
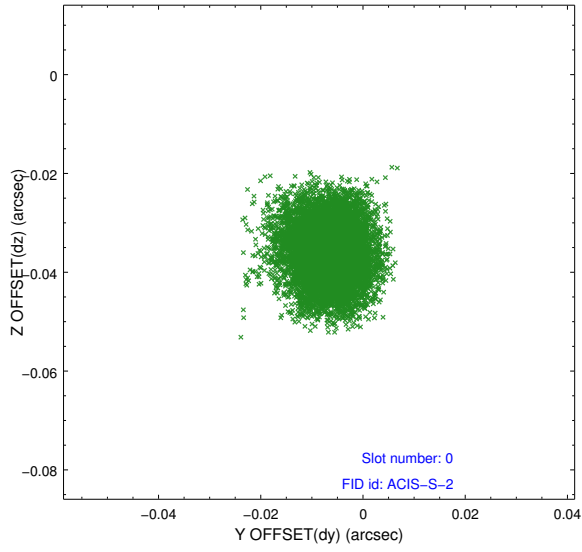


2.4.5 Slot 7

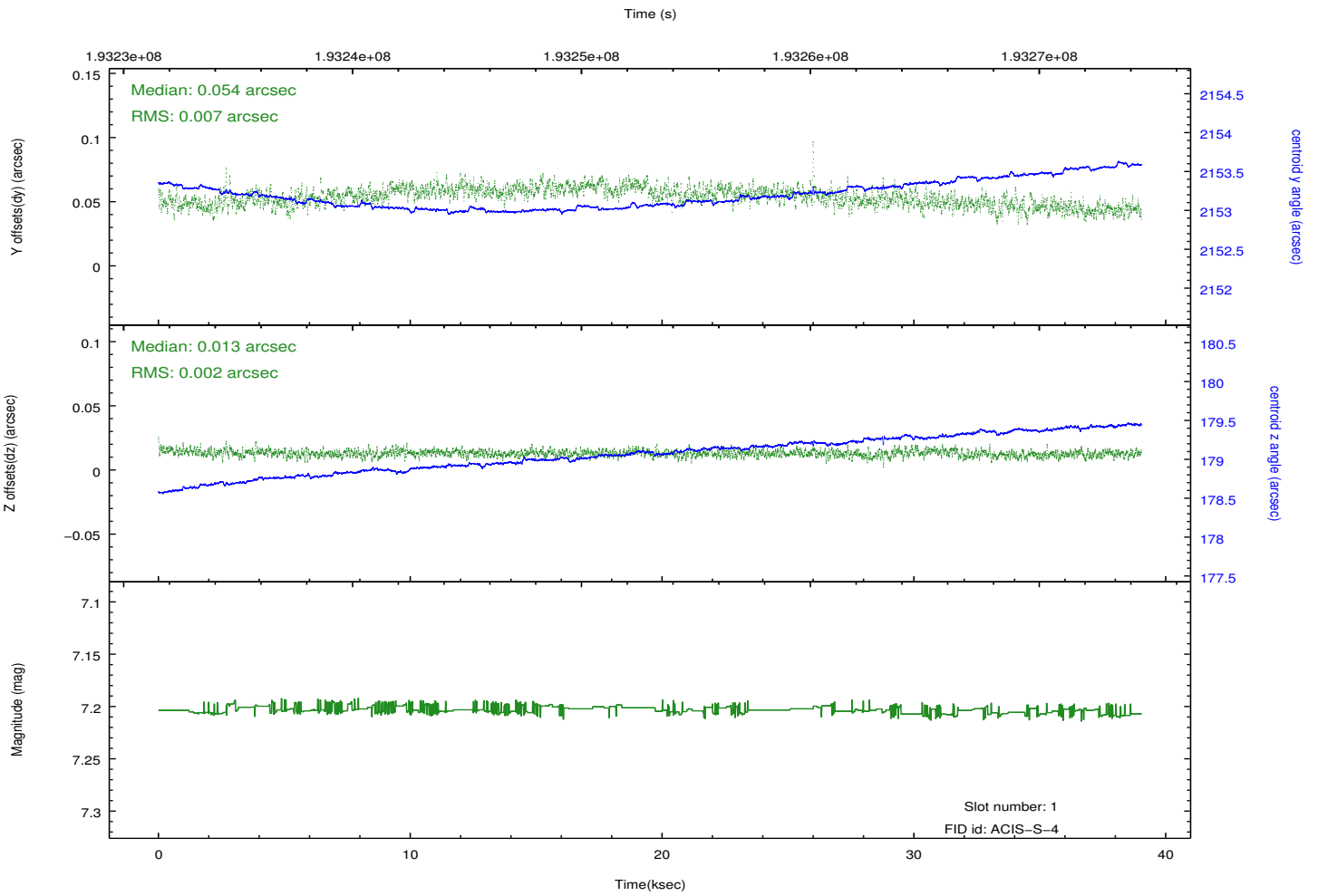
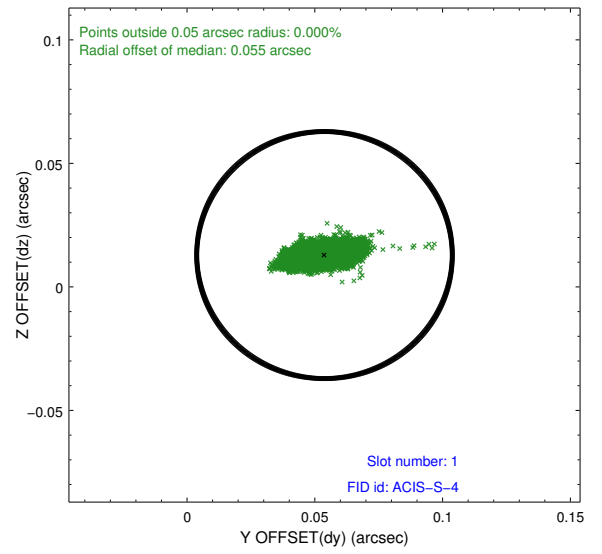
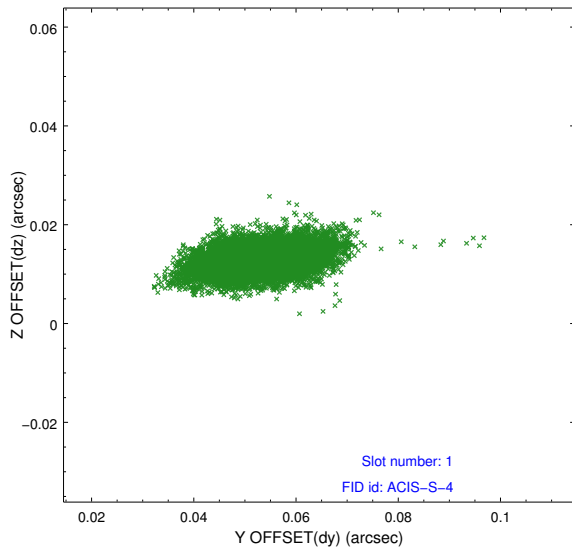


2.5 FID Slots

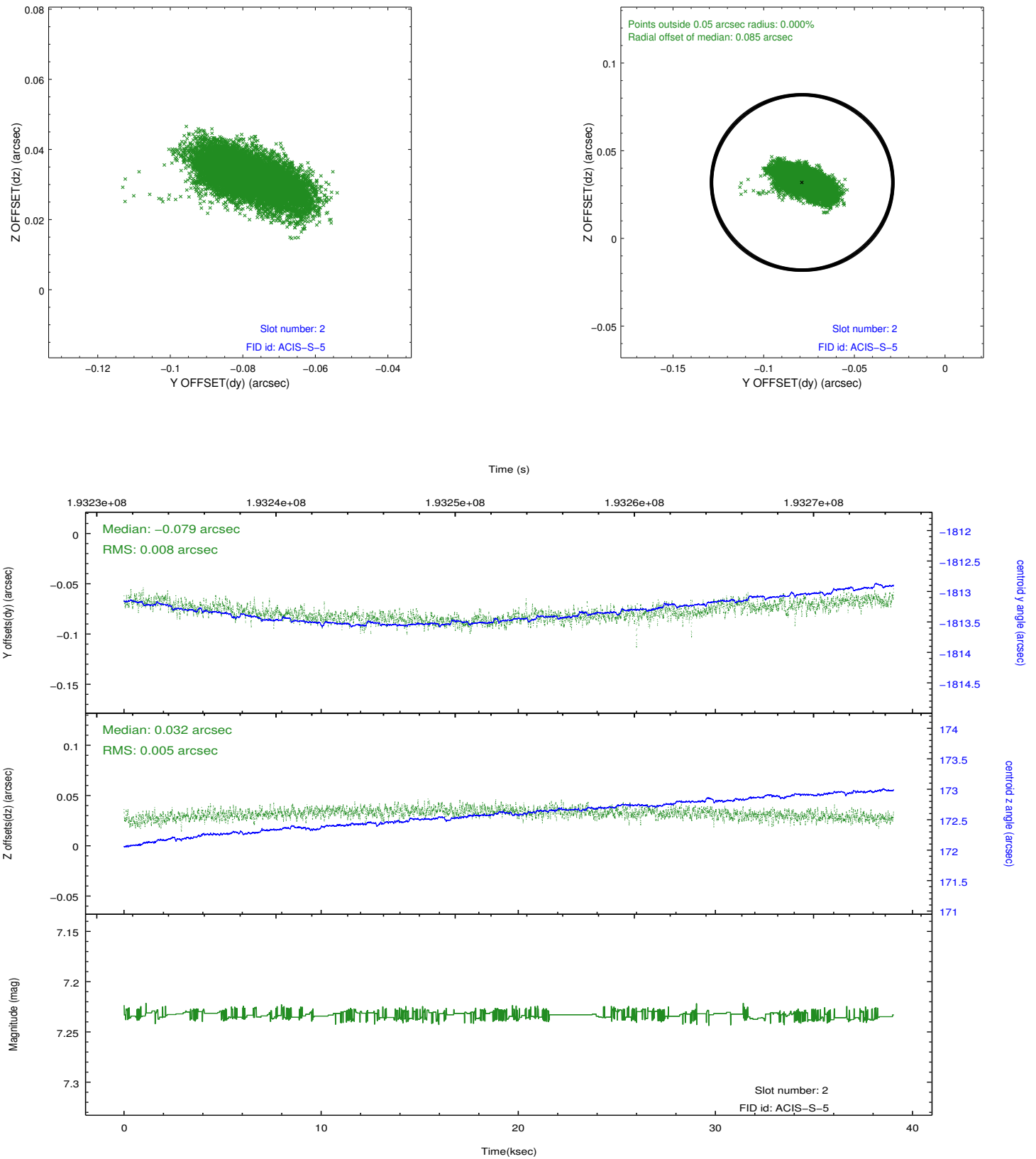
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.12.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.0335998

A.2 Comments