

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2000 - L2 Version 4
Chandra X-Ray Center

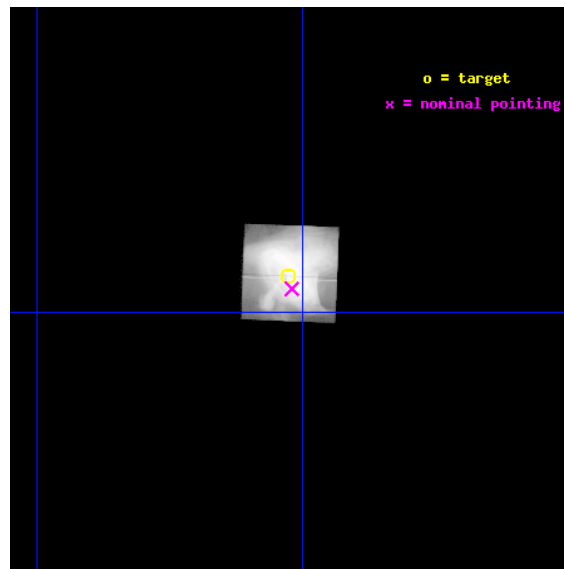
L2 Processing Date : Sep 15 2012

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1 Front

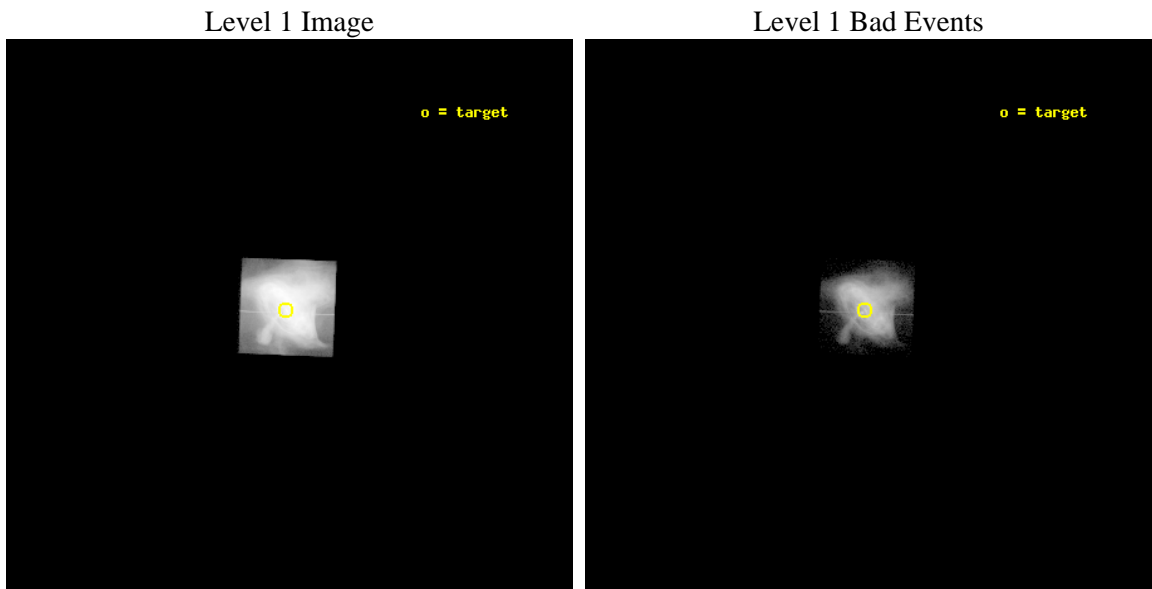
seq_num	500177	Sequence number
obs_id	2000	Observation id
title	COORDINATED CHANDRA/HST OBSERVATIONS OF THE CRAB NEBULA	Proposal t
observer	PROF. JEFF HESTER	Principal investigator
object	CRAB NEBULA	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	83.631667	Observer's specified target RA [deg]
dec_targ	22.015667	Observer's specified target Dec [deg]
ra_nom	83.630020929298	Nominal RA [deg]
dec_nom	22.010136921467	Nominal Dec [deg]
roll_nom	272.20752342159	Nominal Roll [deg]
revision	4	Processing version of data
ontime	15121.434343472	Sum of GTIs [s]
livetime	2642.9605242549	Livetime [s]
ontime7	15121.434343472	Sum of GTIs [s]
l2events	9050968	Number of level 2 events



2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Parameters

obi_num	1	Obi number	sched_exp_time	24902.108000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	15121.434343472	Sum of GTIs [s]
caldsver	4.5.1.1	 	ontime7	15121.434343472	Sum of GTIs [s]
date	2012-09-15T00:37:51	Date and time of file creation	l1events	10223705	Number of level 1 events
revision	4	Processing version of data			

2.1.3 Events

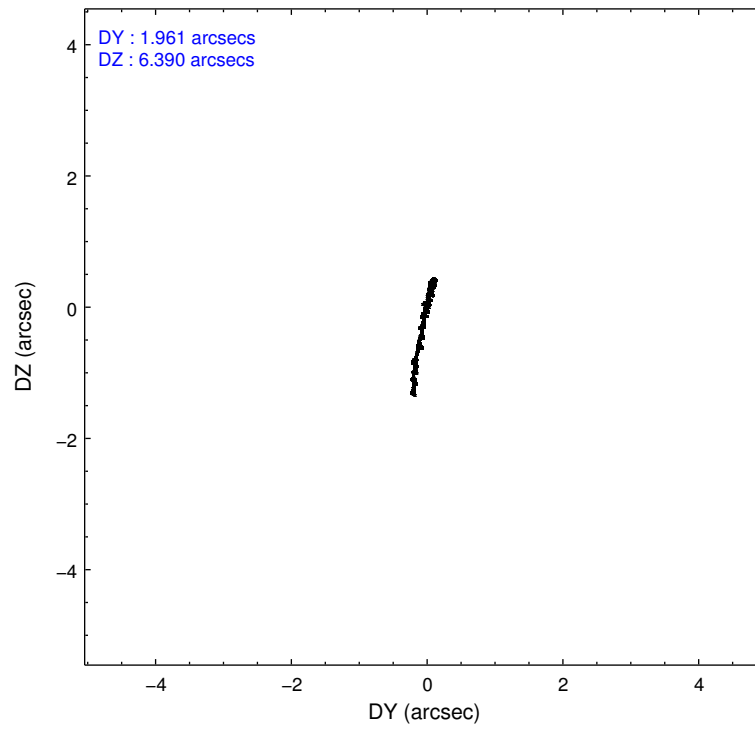
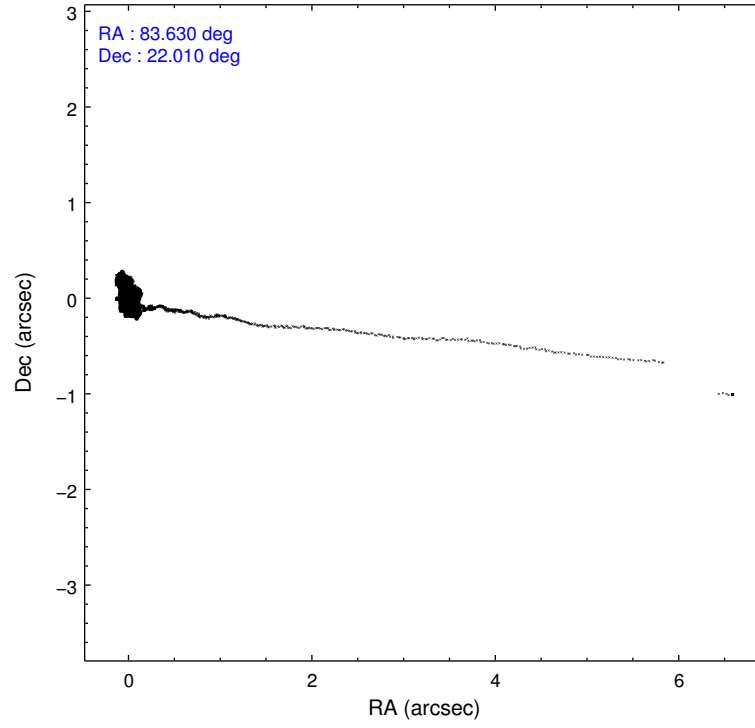
	ccd 7
level 1 events	10223705
rejected events	1082087
rejected %	10%

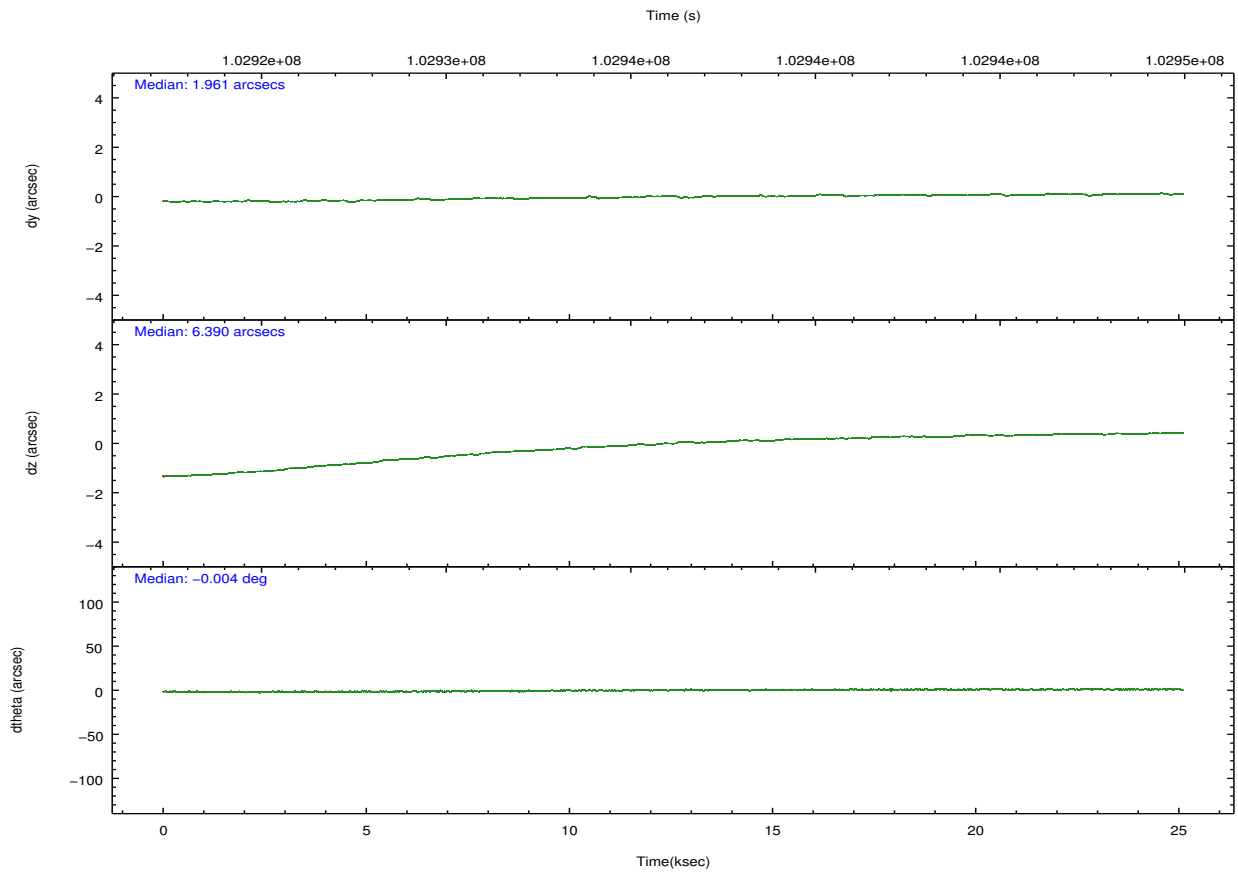
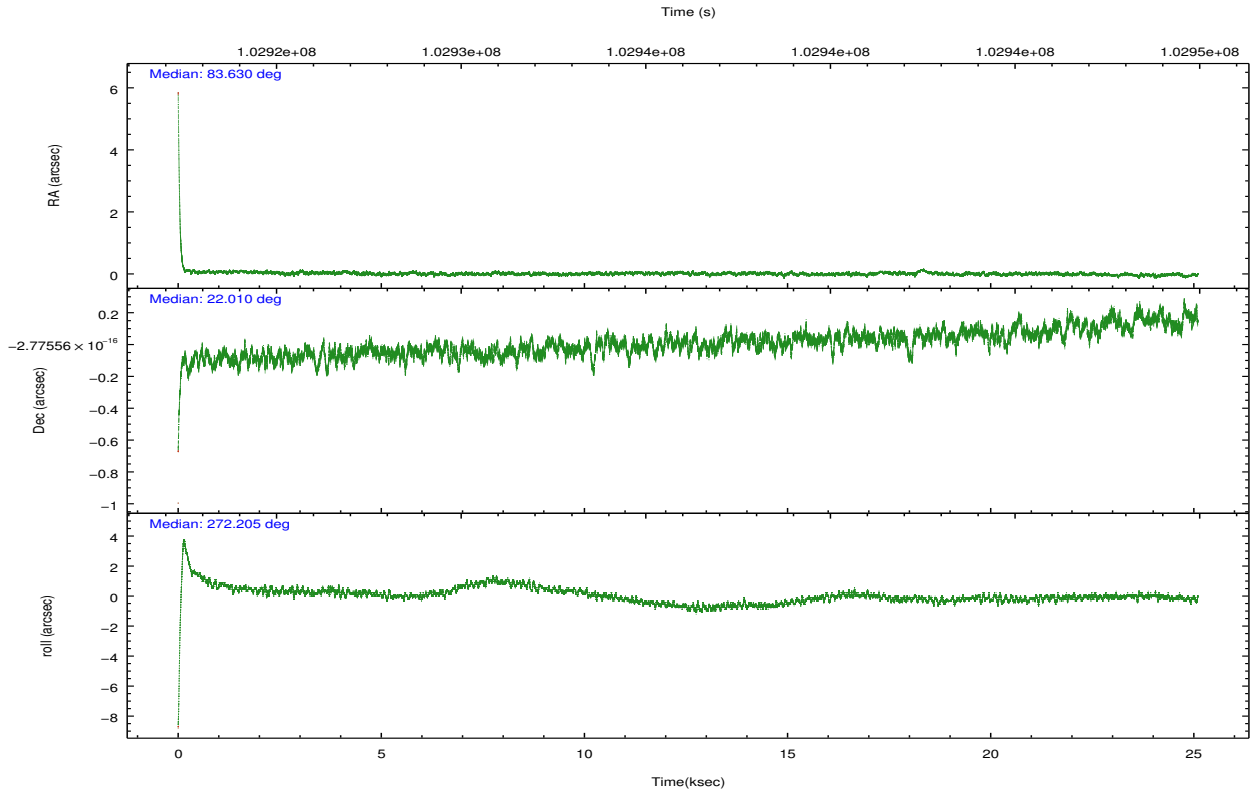
	ccd 7
grade 0 events	2146865
	20%
grade 1 events	140793
	1%
grade 2 events	2439253
	23%
grade 3 events	1082154
	10%
grade 4 events	1048878
	10%
grade 5 events	378862
	3%
grade 6 events	2485952
	24%
grade 7 events	500948
	4%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	GRADED	GRADED	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	83.614082	83.63002092929793	Subarray requested	CUSTOM	CUSTOM
[deg] Pointing Dec	22.033102	22.01013692146749	Subarray start row	49	49
[deg] Pointing Roll	272.056876	272.2075234215887	Subarray row count	300	300
[s] Window start time (MET)	102819664.184000	102819664.184000	Alternating exposures requested	N	N
[s] Window stop time (MET)	103078864.184000	103078864.184000	[s] Primary exposure time	0.000000	0.2
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-182.620523	-182.6172346676044			
[mm] SIM translation stage offset	-7.512	-7.515287915403434			
[s] Observation start time (MET)	102923790.184000	102922605.96852			
Observation start date	2001-04-06T05:55:26	2001-04-06T05:36:45			
[s] Observation end time (MET)	102948692.184000	102949897.61958			
Observation end date	2001-04-06T12:50:28	2001-04-06T13:11:37			
Read mode	TIMED	TIMED			

2.3 Aspect



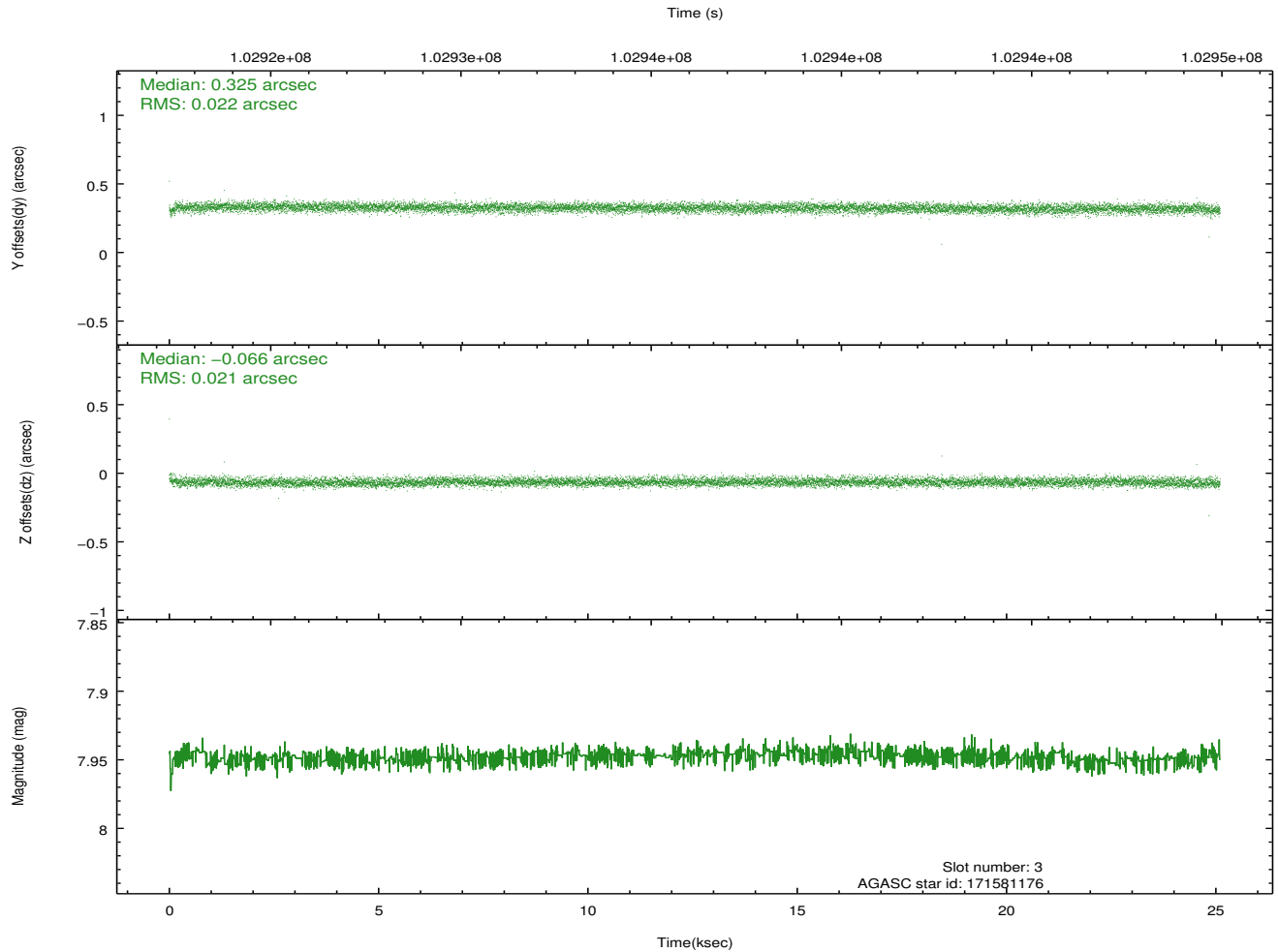
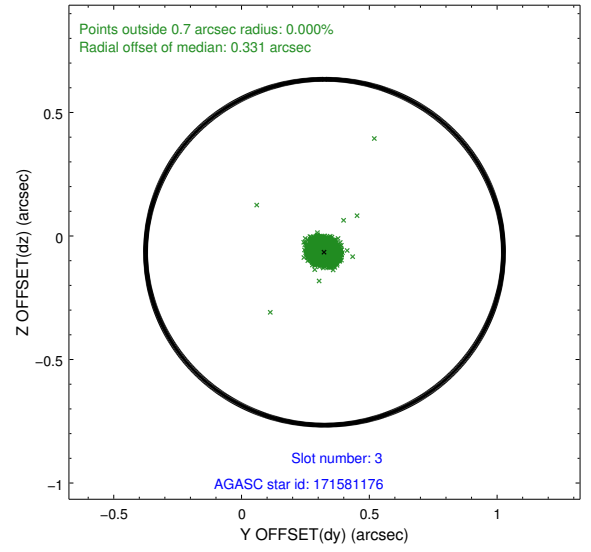
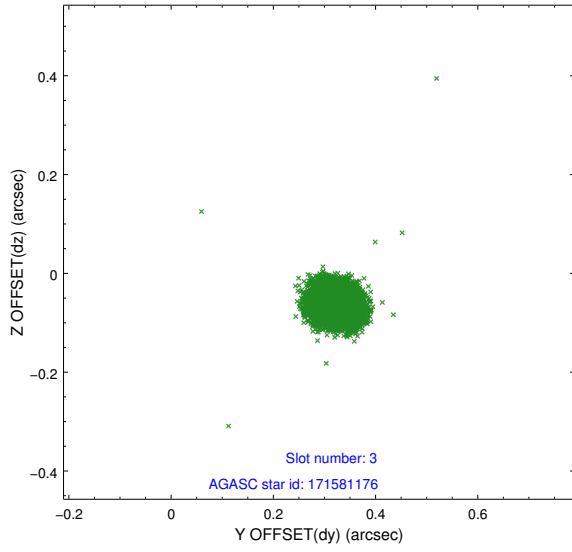


Slot Statistics

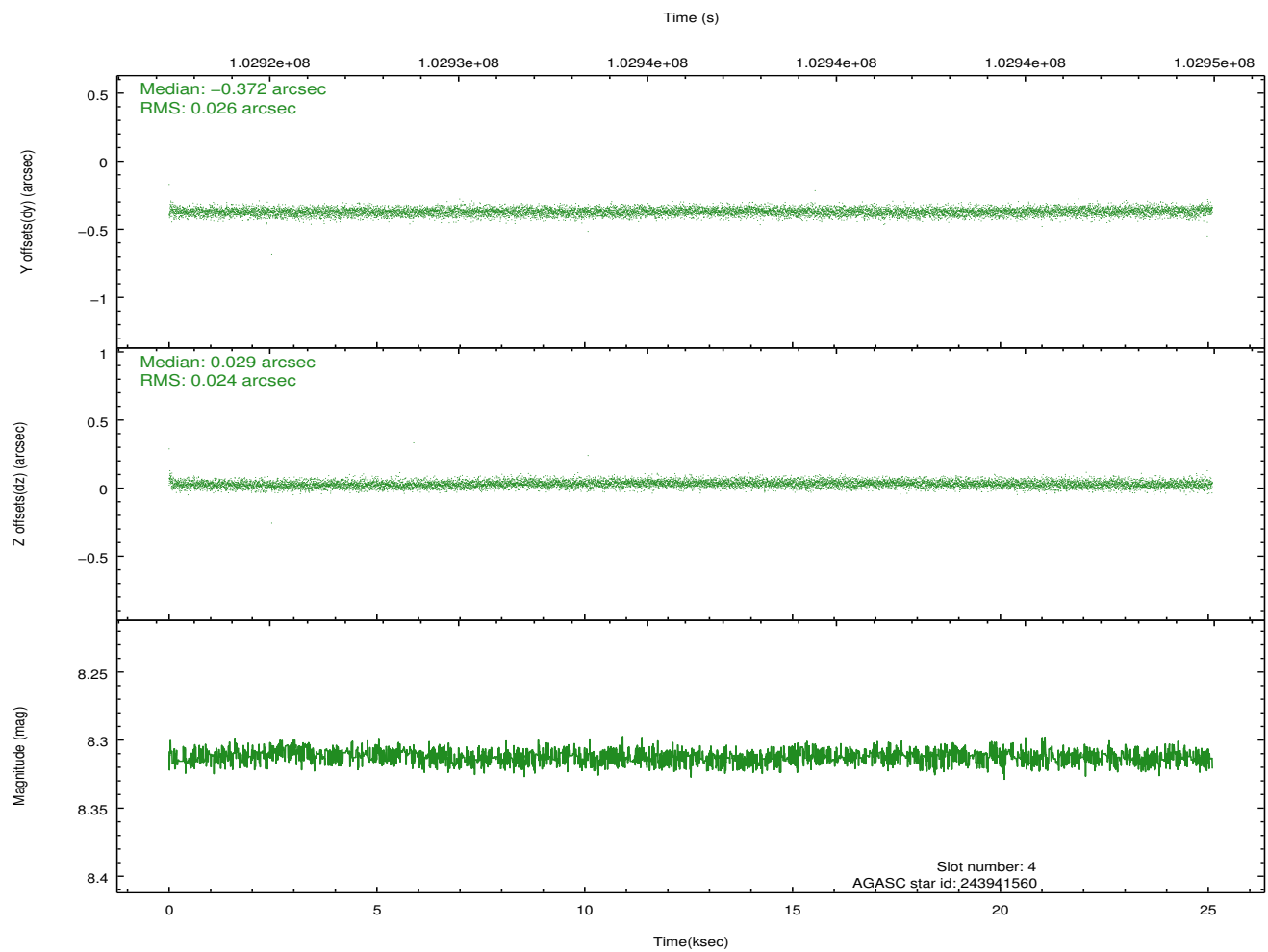
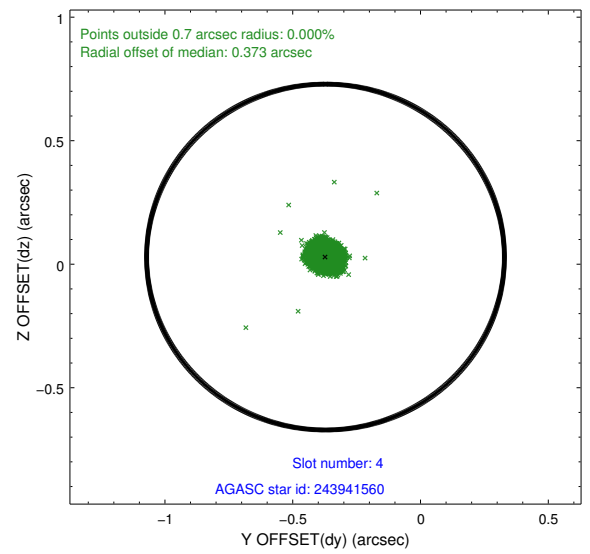
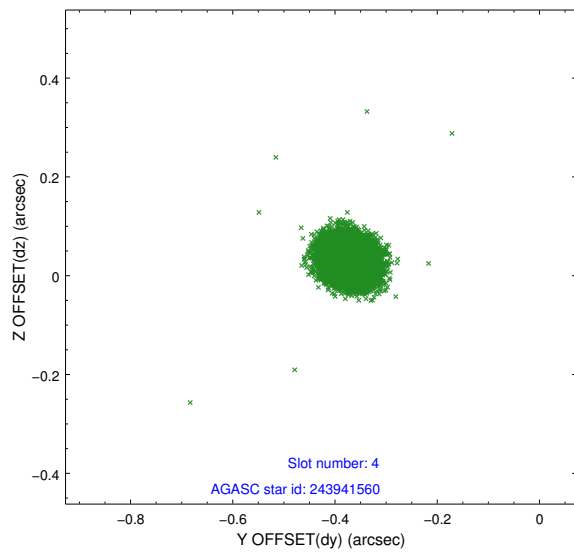
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.09	6123	-0.054	-0.088	0.022	0.037	0.000000	0.000000	-754.07	-1882.26
1	FID	ACIS-S-4	7.18	6123	0.010	0.049	0.010	0.020	0.000000	0.000000	2159.23	26.18
2	FID	ACIS-S-5	7.23	6123	0.012	0.048	0.019	0.033	0.000000	0.000000	-1806.68	20.01
3	GUIDE	171581176	7.95	12243	0.325	-0.066	0.032	0.052	83.918863	21.403256	2302.16	939.36
4	GUIDE	243941560	8.31	12243	-0.372	0.029	0.037	0.060	83.733264	22.568598	-1912.46	464.90
5	GUIDE	171585880	8.39	12244	-0.177	-0.052	0.040	0.065	83.676260	22.176319	-507.99	225.36
6	GUIDE	171586976	8.49	12241	-0.057	0.109	0.040	0.064	83.857953	22.438065	-1428.36	863.15
7	GUIDE	171597832	9.21	12240	0.283	-0.023	0.058	0.101	83.183230	21.366702	2344.11	-1529.77

2.4 Star Slots

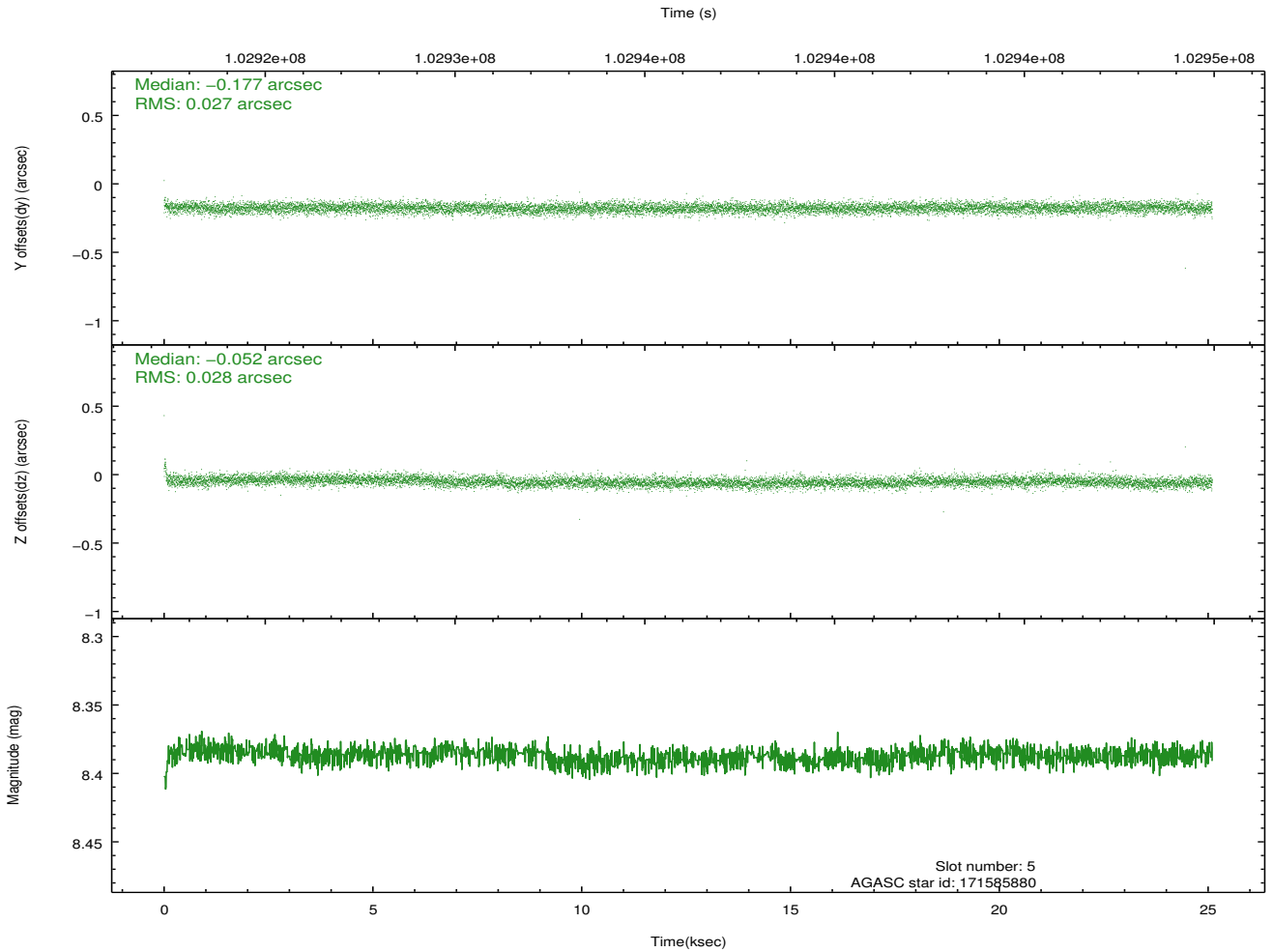
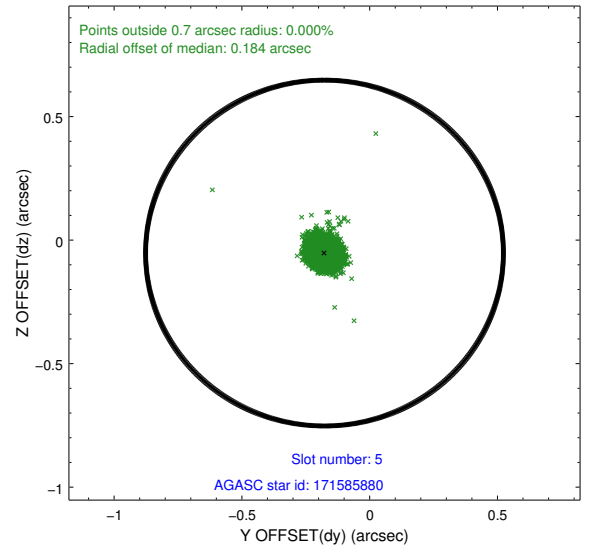
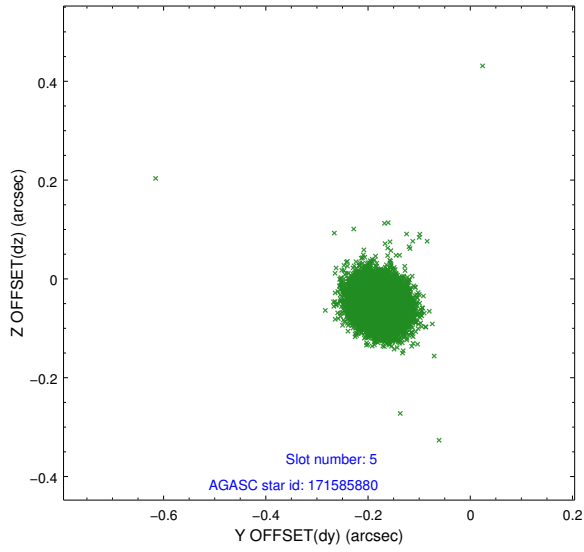
2.4.1 Slot 3



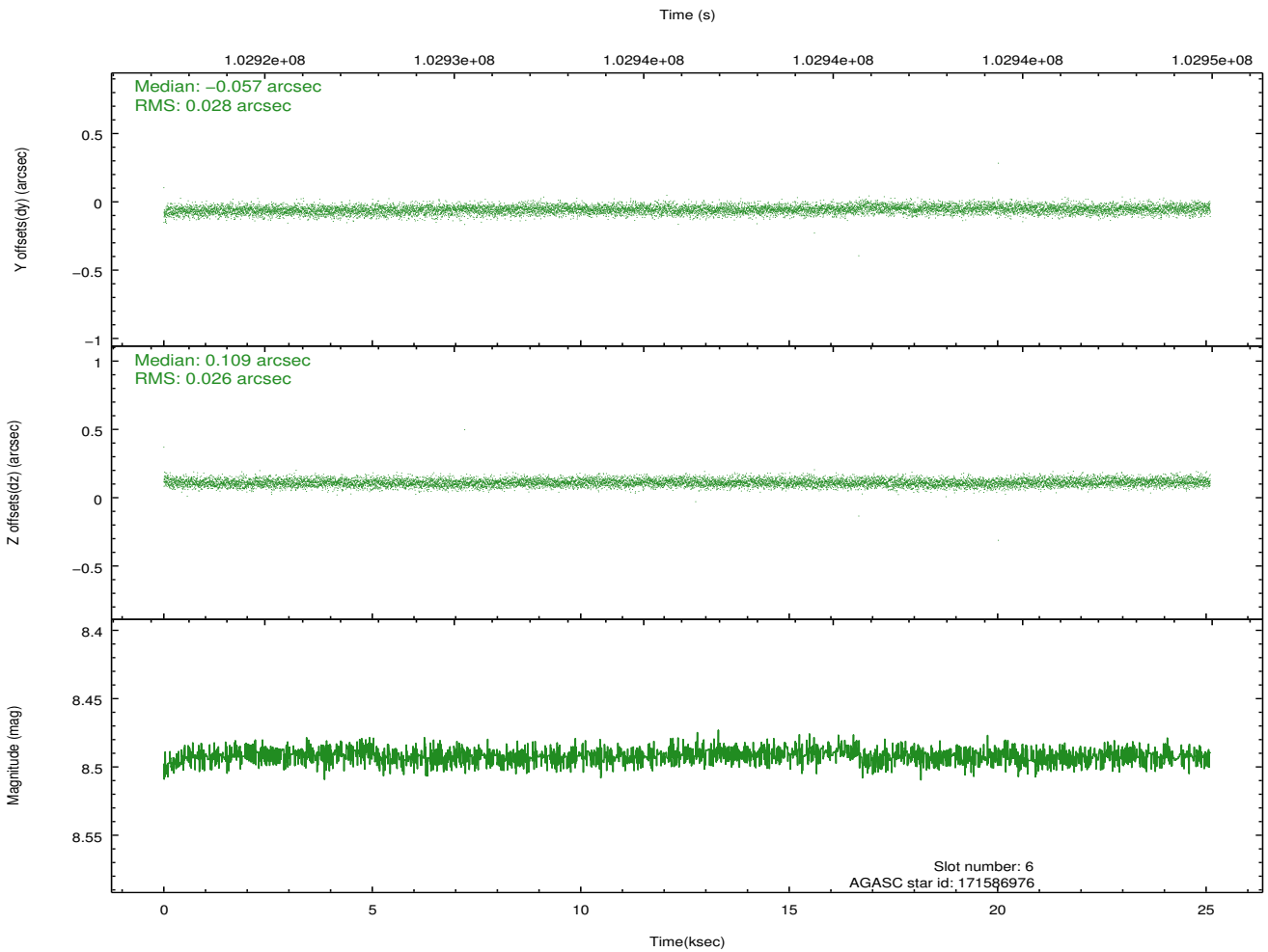
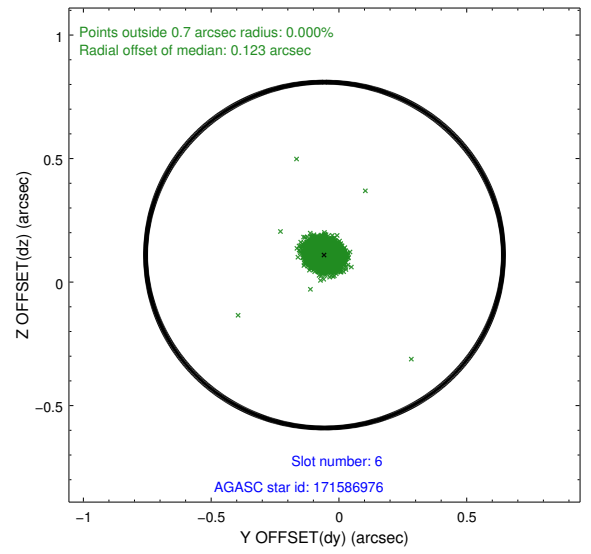
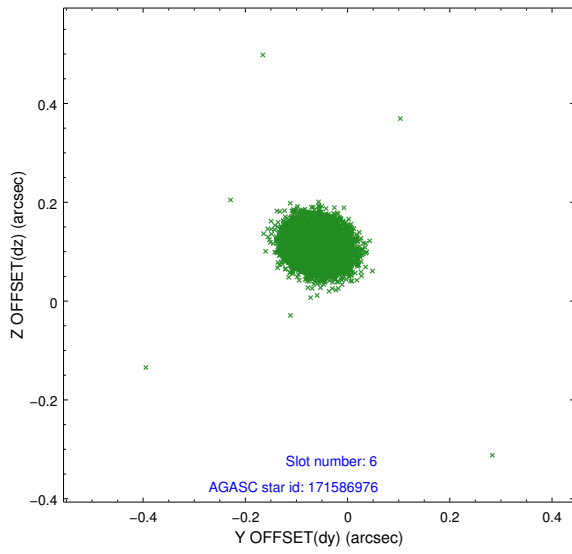
2.4.2 Slot 4



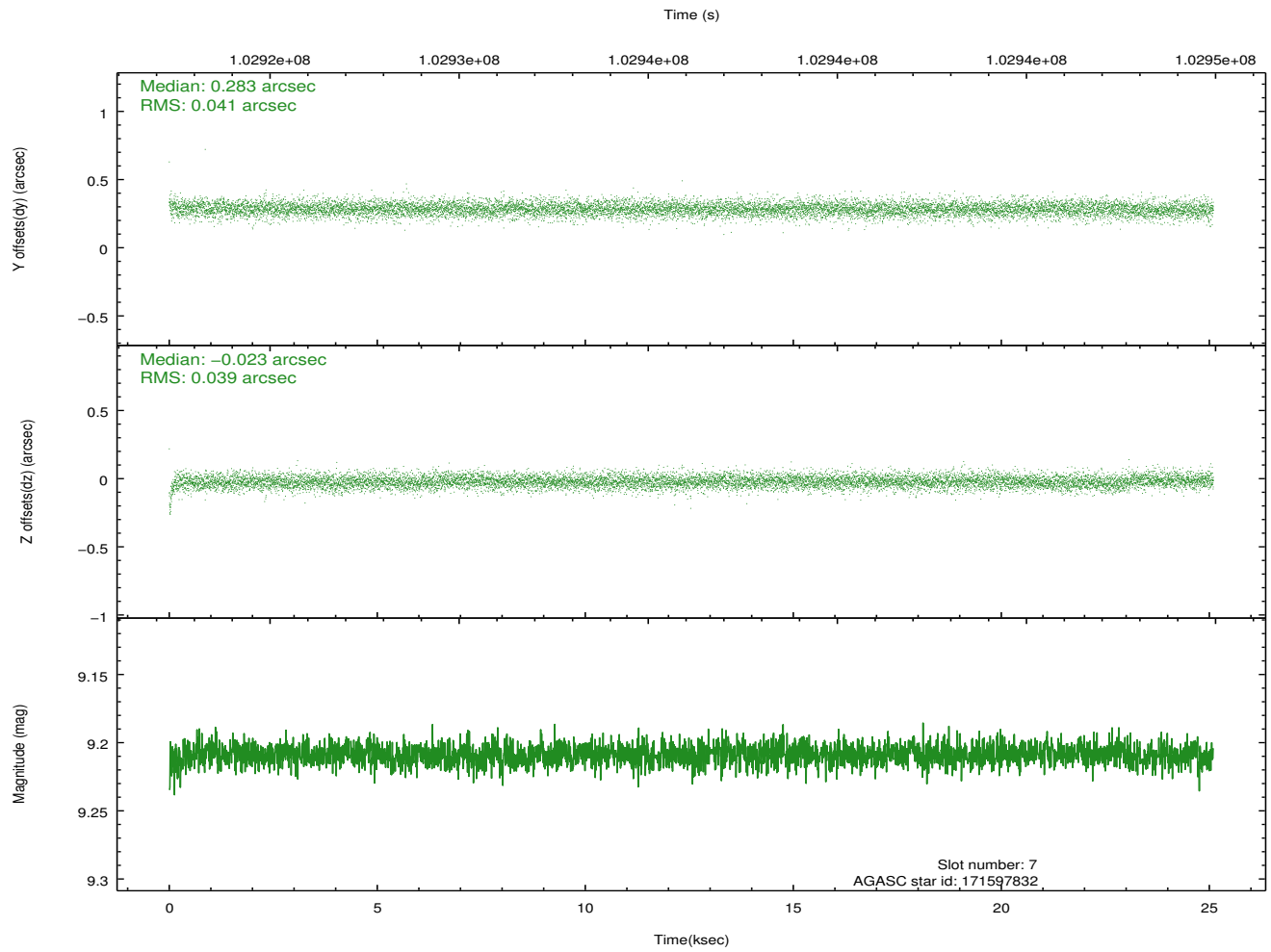
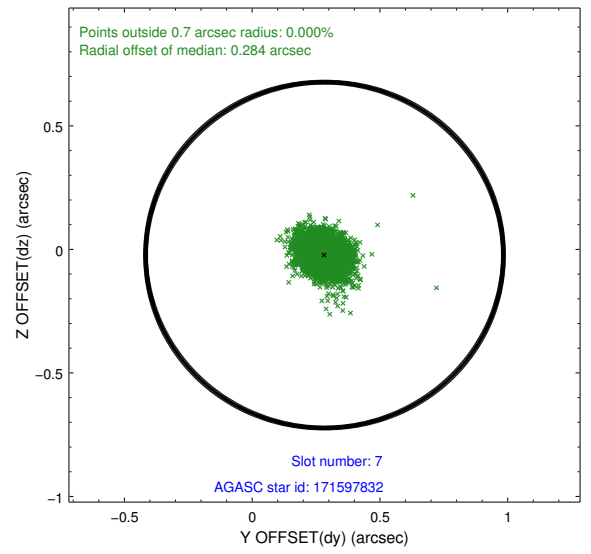
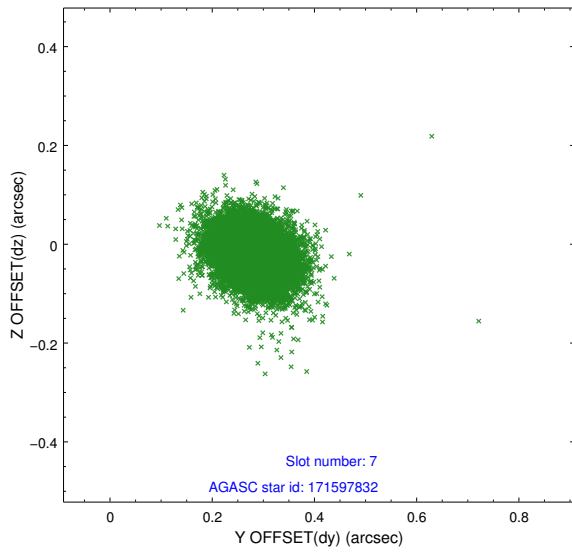
2.4.3 Slot 5



2.4.4 Slot 6

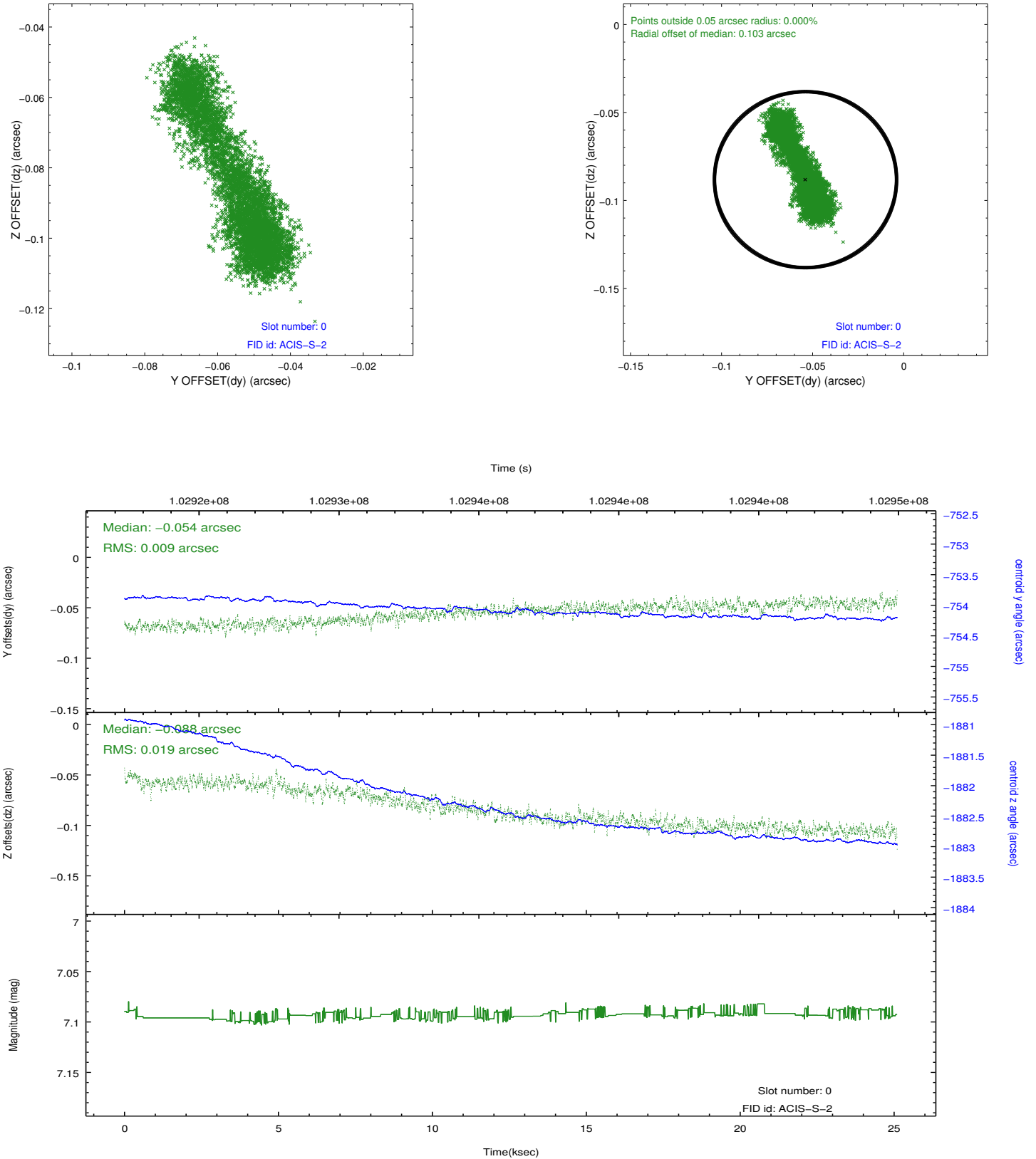


2.4.5 Slot 7

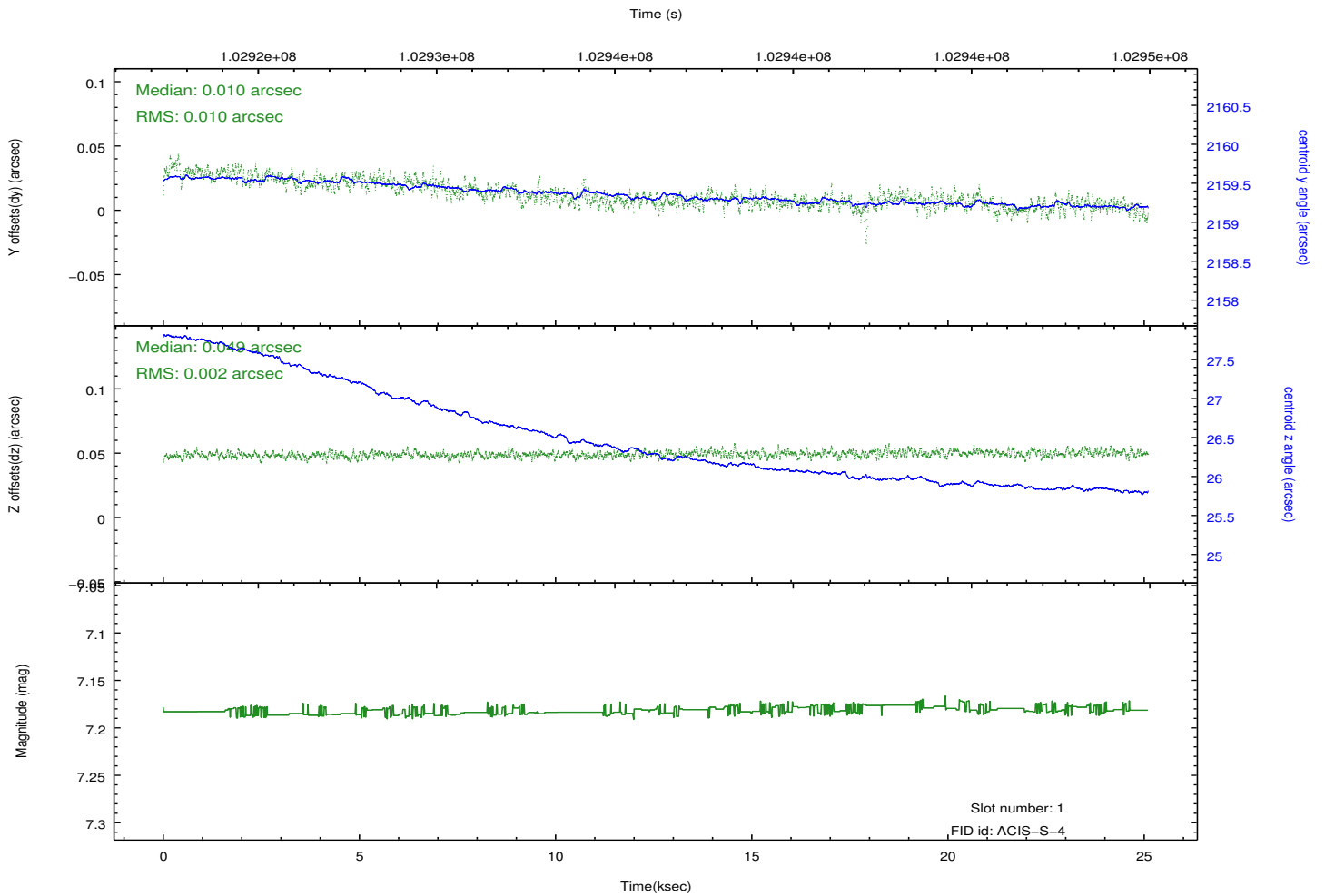
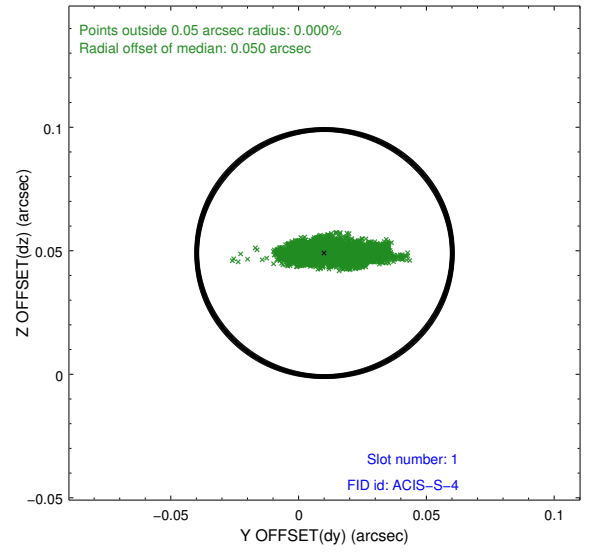
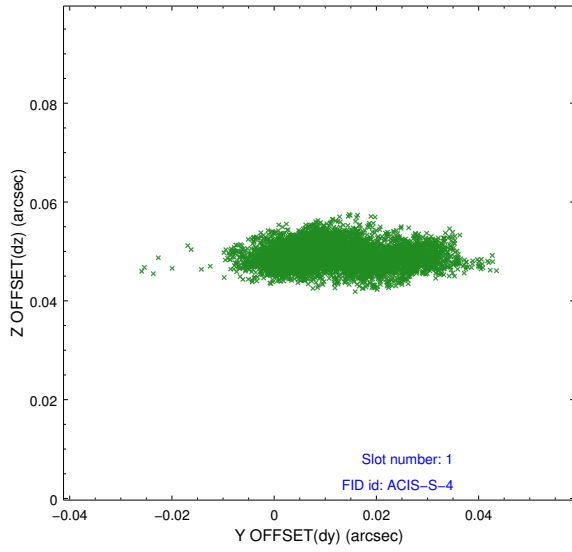


2.5 FID Slots

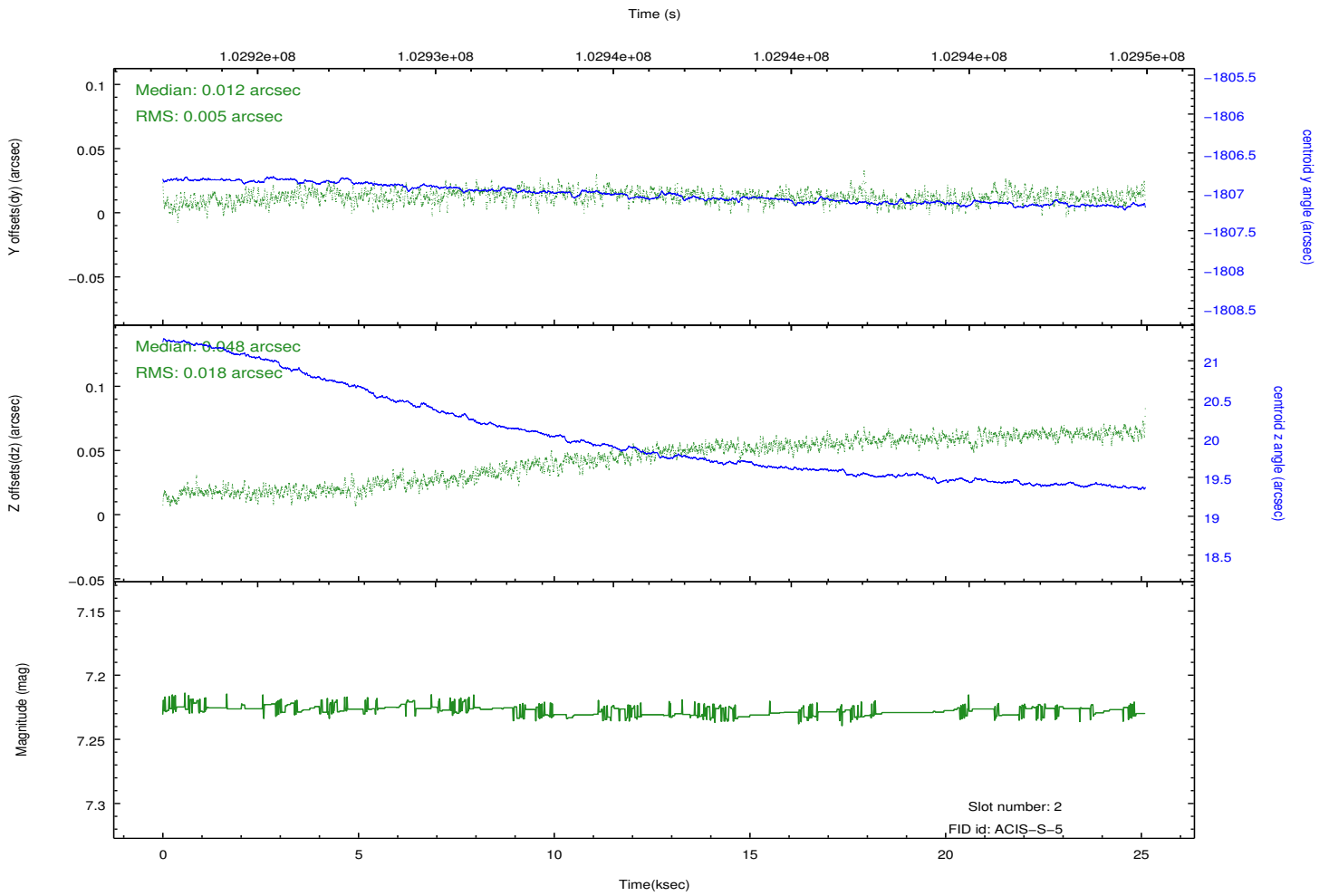
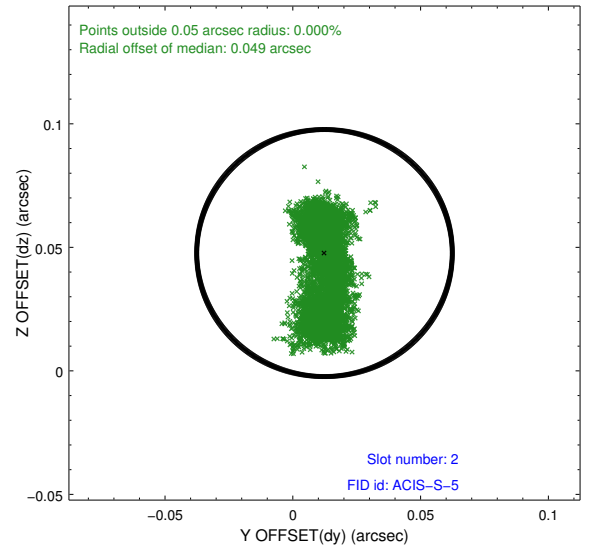
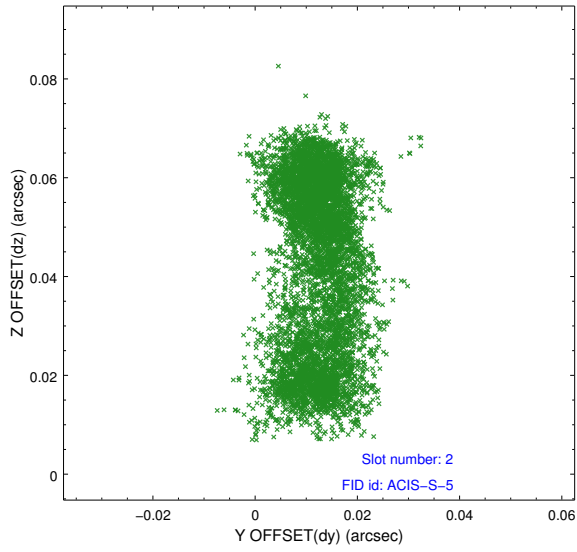
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	23.353

A.2 Comments

Charge time for this ObsId remains at original value of 23.353 ks, although with the current processing the charge time would have been 15.121 ksec. There are many dropped exposures due to telemetry saturation in this observation. Window constraint met. Telescope dither was turned off for this observation. Observation coordinated within 1 day of HST observation.