

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 2276 - L2 Version 4
Chandra X-Ray Center

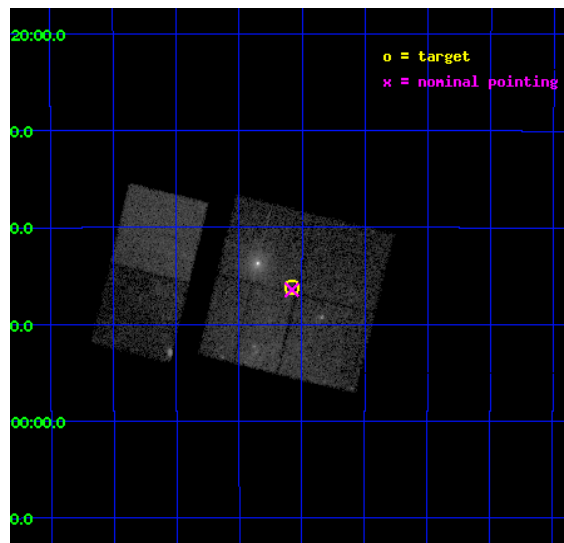
L2 Processing Date : Oct 18 2012

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1 Front

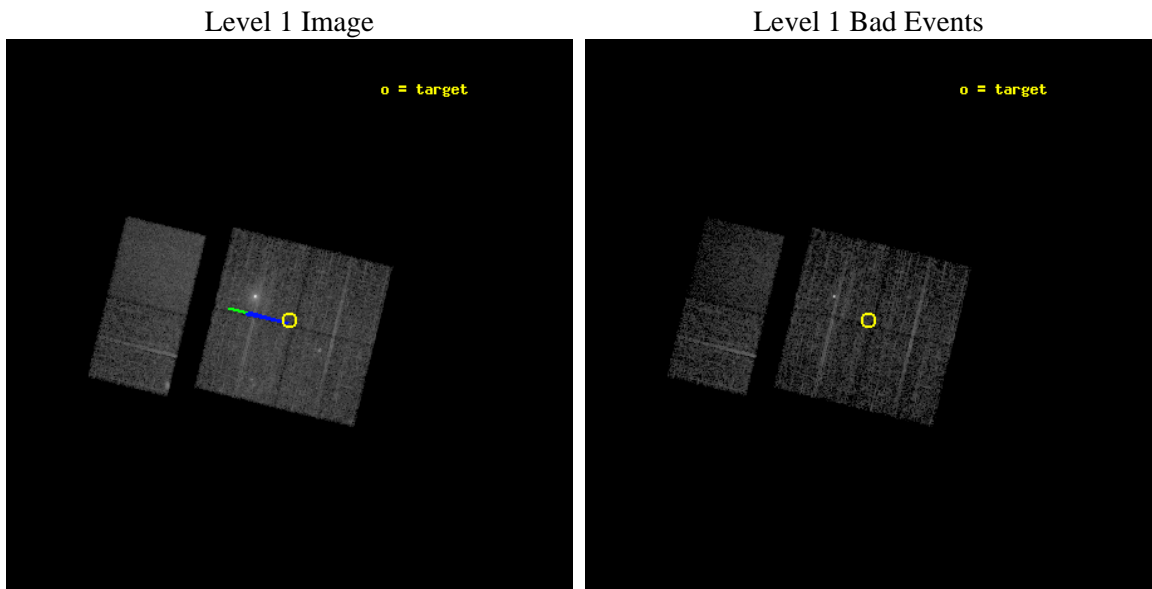
seq_num	900103	Sequence number
obs_id	2276	Observation id
title	CHANDRA SURVEY OF THE GALACTIC RIDGE AROUND THE MILKY WAY CENTER	P
observer	Prof. Q. Daniel Wang	Principal investigator
object	GCS 11	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	266.5209	Observer's specified target RA [deg]
dec_targ	-28.7697	Observer's specified target Dec [deg]
ra_nom	266.5200235308	Nominal RA [deg]
dec_nom	-28.774350280773	Nominal Dec [deg]
roll_nom	283.80729284091	Nominal Roll [deg]
revision	4	Processing version of data
ontime	11760.000010937	Sum of GTIs [s]
livetime	11611.087809777	Livetime [s]
ontime0	11760.000010937	Sum of GTIs [s]
ontime1	11760.000010937	Sum of GTIs [s]
ontime2	11760.000010937	Sum of GTIs [s]
ontime3	11760.000010937	Sum of GTIs [s]
ontime6	11756.759030685	Sum of GTIs [s]
ontime7	11760.000010937	Sum of GTIs [s]
l2events	91844	Number of level 2 events



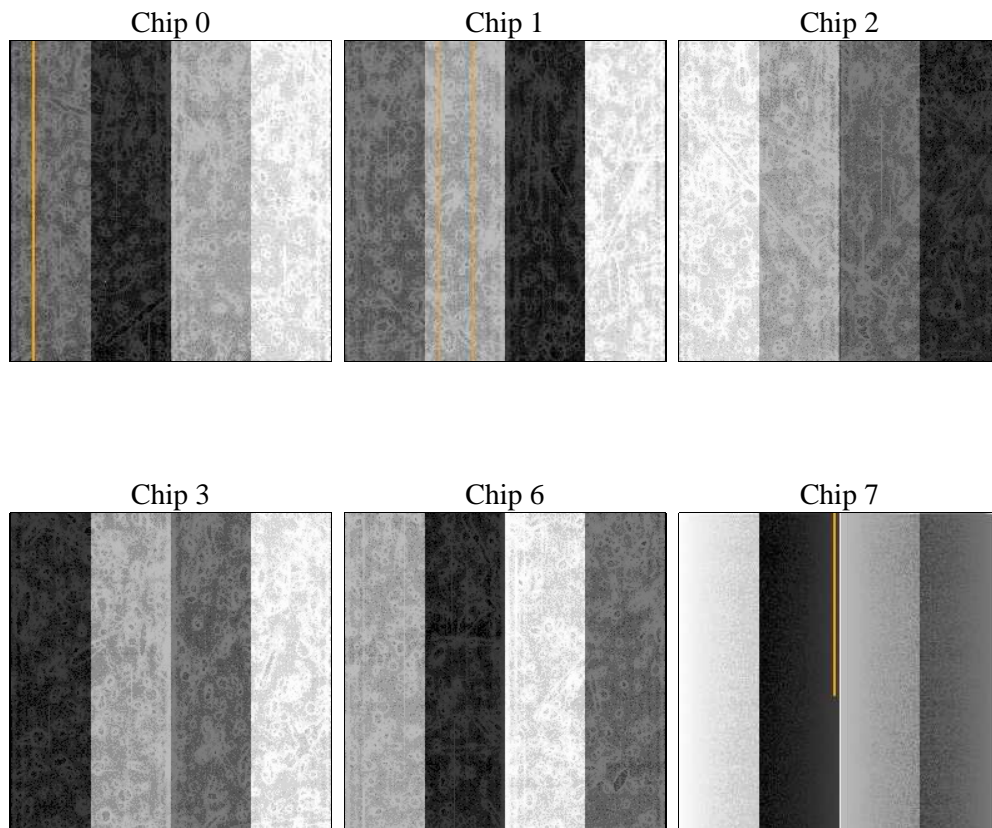
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	12000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	11760.000010937	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	11760.000010937	Sum of GTIs [s]
date	2012-10-18T23:17:47	Date and time of file creation	ontime1	11760.000010937	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	11760.000010937	Sum of GTIs [s]
			ontime3	11760.000010937	Sum of GTIs [s]
			ontime6	11756.759030685	Sum of GTIs [s]
			ontime7	11760.000010937	Sum of GTIs [s]
			l1events	243367	Number of level 1 events

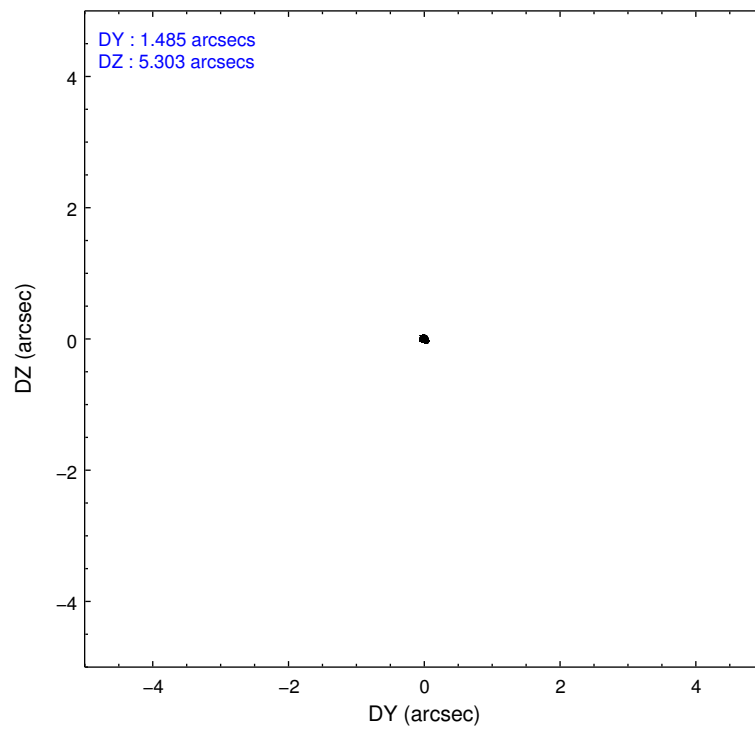
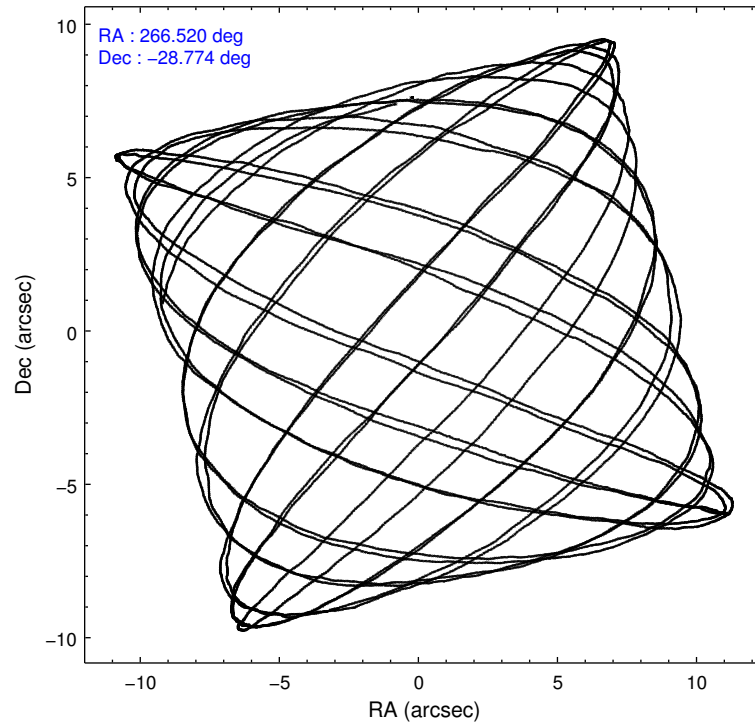
2.1.4 Events

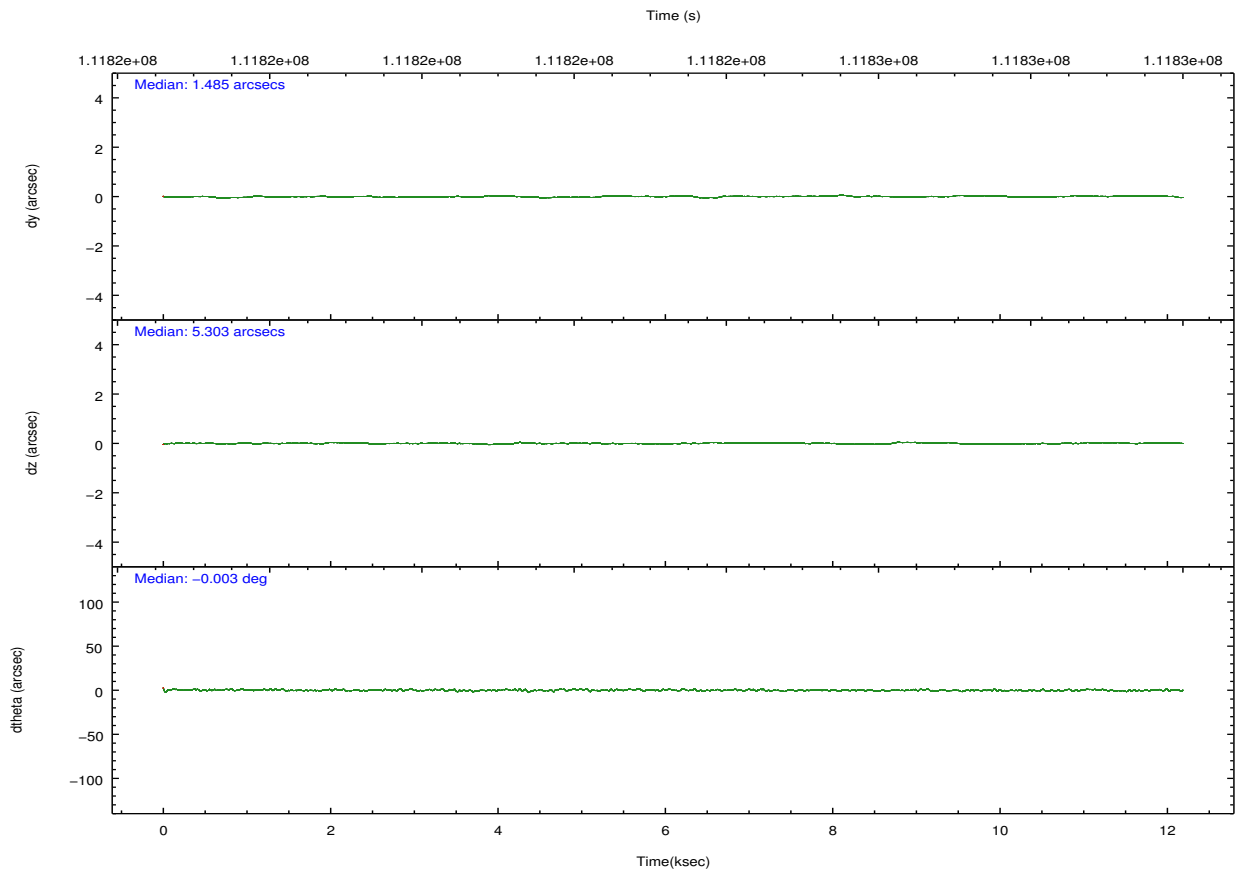
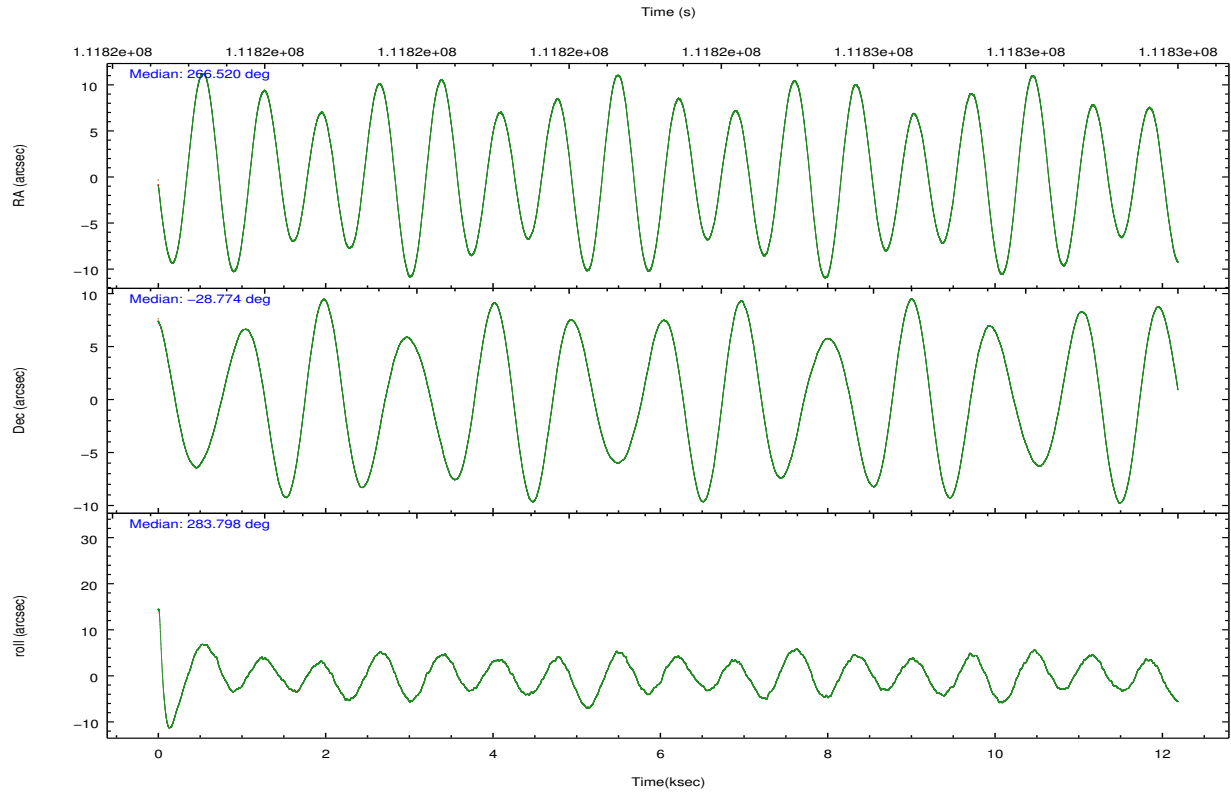
	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	37952	33058	43604	55564	33563	39626	grade 0 events	8916	5007	11922	15179	4080	2266
rejected events	23412	24142	25237	28842	25734	18199		23%	15%	27%	27%	12%	5%
rejected %	61%	73%	57%	51%	76%	45%	grade 1 events	55	43	91	1039	35	42
								0%	0%	0%	1%	0%	0%
							grade 2 events	2326	1534	2767	4720	1431	4405
								6%	4%	6%	8%	4%	11%
							grade 3 events	903	637	1069	1713	562	1968
								2%	1%	2%	3%	1%	4%
							grade 4 events	843	616	1045	1774	617	1945
								2%	1%	2%	3%	1%	4%
							grade 5 events	1220	1386	1142	2394	1404	4453
								3%	4%	2%	4%	4%	11%
							grade 6 events	1553	1123	1569	3343	1142	10848
								4%	3%	3%	6%	3%	27%
							grade 7 events	22136	22712	23999	25402	24292	13699
								58%	68%	55%	45%	72%	34%

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	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	266.498349	266.5200235308046	Subarray requested	NONE	NONE
[deg] Pointing Dec	-28.754595	-28.77435028077279	Alternating exposures requested	N	N
[deg] Pointing Roll	283.588158	283.8072928409123	[s] Primary exposure time	0.000000	3.2
[deg] Roll angle	283.600000	283.600000			
[deg] Roll tolerance	2.000000	2.000000			
Roll constraint allows 180D rotation	N	N			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	111817394.184000	111817018.1897			
Observation start date	2001-07-18T04:22:10	2001-07-18T04:16:58			
[s] Observation end time (MET)	111829394.184000	111829528.31519			
Observation end date	2001-07-18T07:42:10	2001-07-18T07:45:28			
Read mode	TIMED	TIMED			

2.3 Aspect





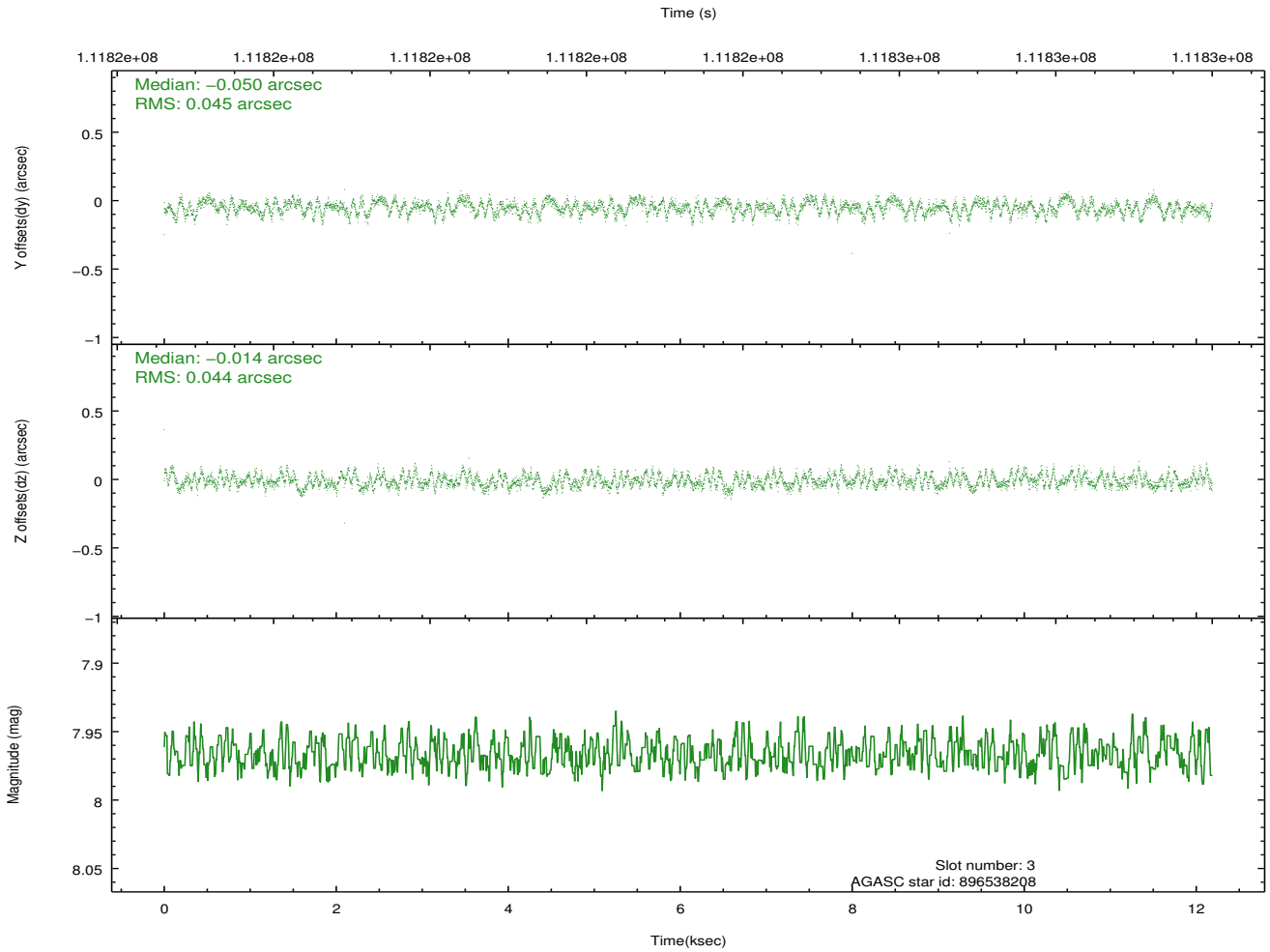
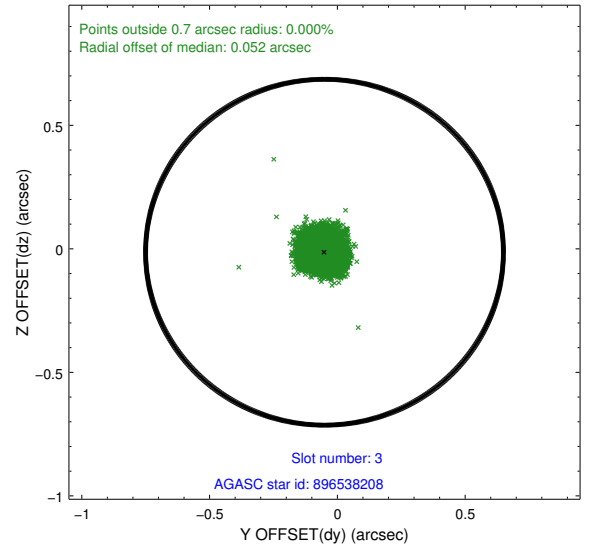
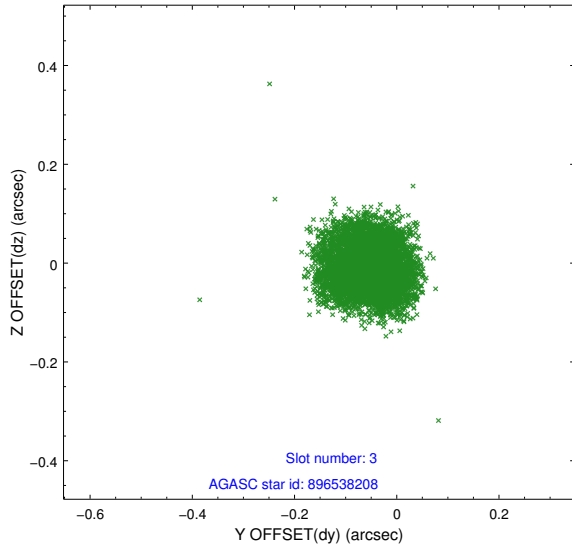
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-2	7.15	2973	-0.026	-0.049	0.009	0.014	0.000000	0.000000	-755.84	-835.07
1	FID	ACIS-I-4	7.19	2973	-0.029	0.037	0.006	0.011	0.000000	0.000000	2158.02	1071.01
2	FID	ACIS-I-5	7.23	2973	-0.046	0.081	0.009	0.014	0.000000	0.000000	-1809.18	1069.33
3	GUIDE	896538208	7.97	5946	-0.050	-0.014	0.068	0.104	267.176969	-28.671626	219.03	2152.87
4	GUIDE	896402272	7.59	5945	-0.124	-0.003	0.049	0.084	265.637294	-28.313189	-2175.77	-2281.00
5	GUIDE	896537176	8.02	5945	0.099	-0.120	0.053	0.084	266.498272	-28.678259	-267.22	64.41
6	GUIDE	896540808	7.52	5944	0.007	0.146	0.049	0.079	265.985401	-29.308604	1564.25	-2033.58
7	GUIDE	896535464	9.33	5939	0.071	-0.007	0.091	0.146	266.962550	-28.408631	-862.23	1720.84

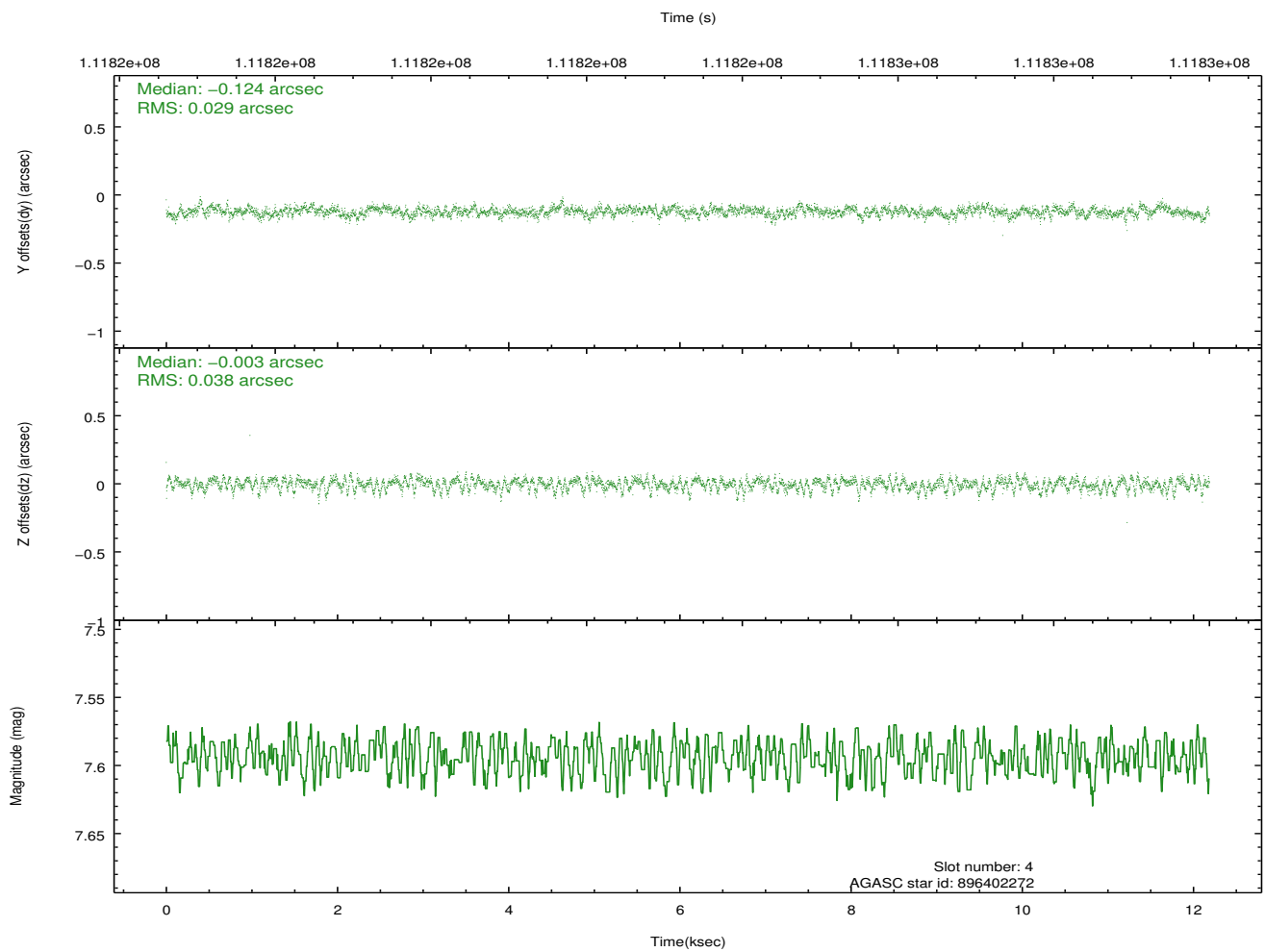
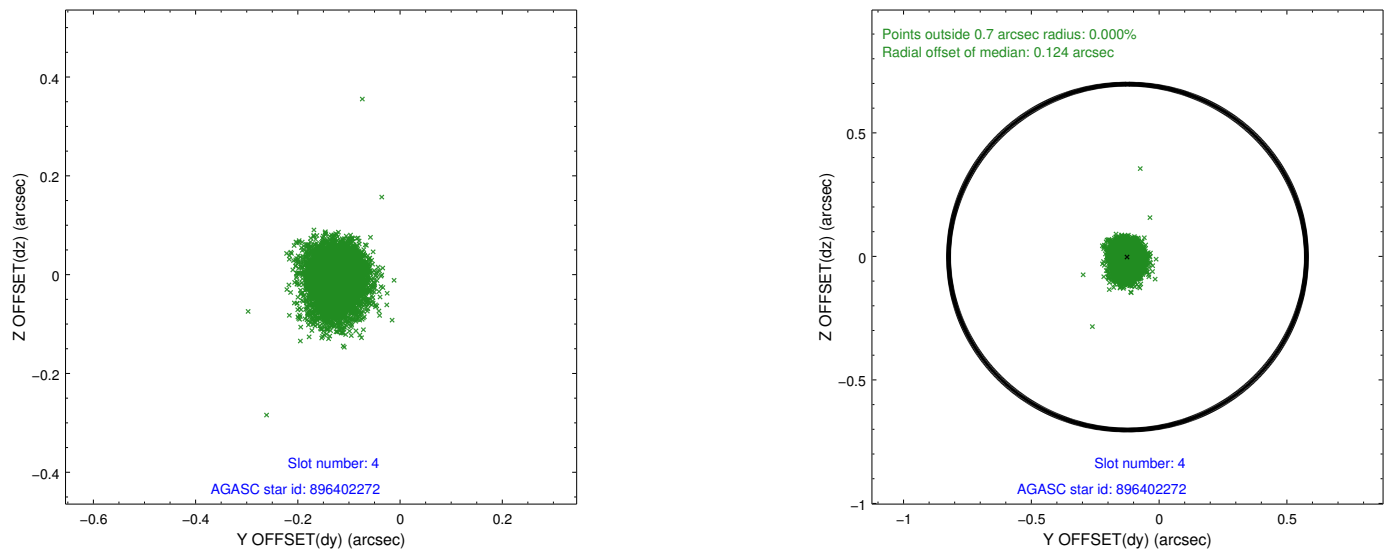
∞

2.4 Star Slots

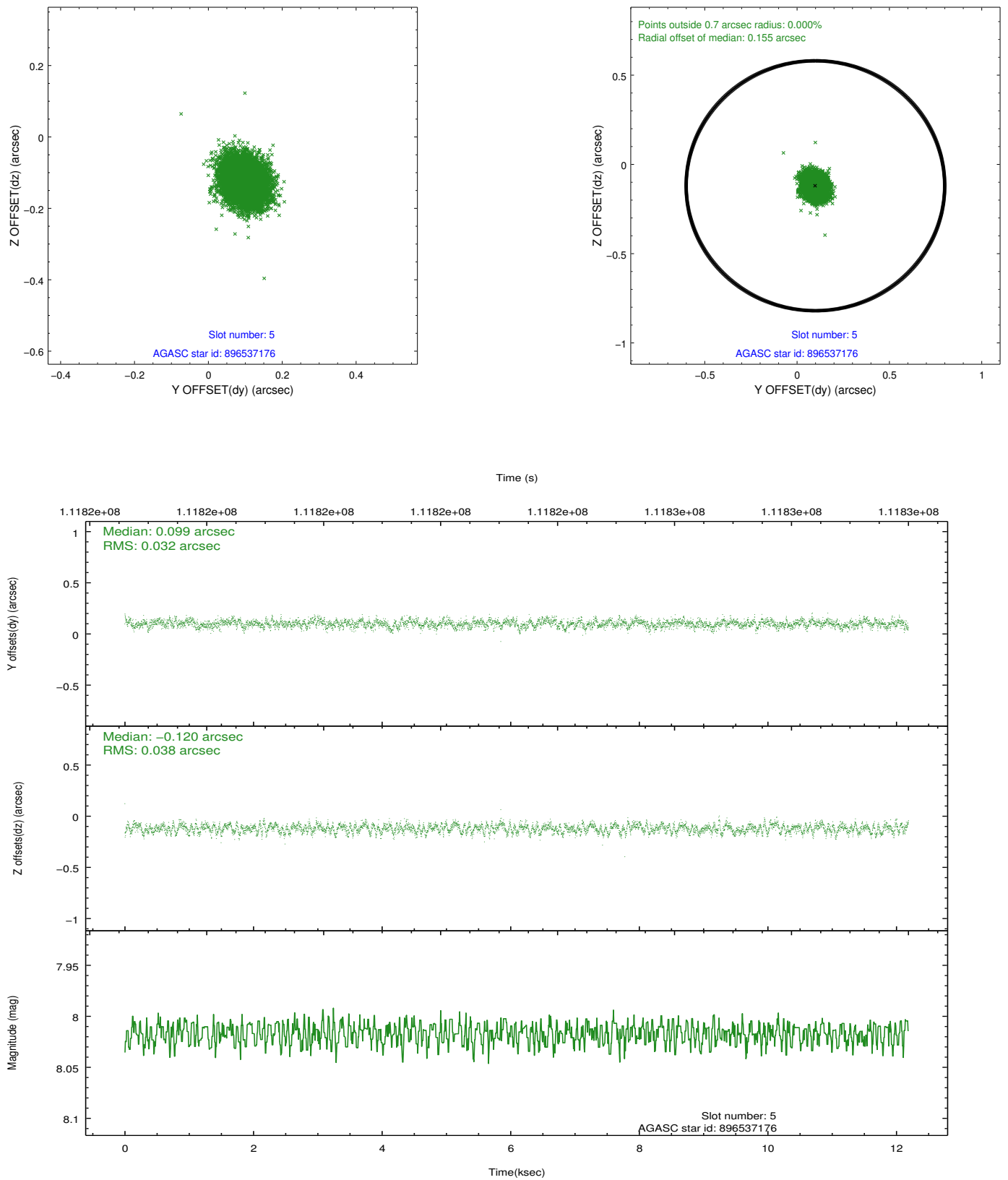
2.4.1 Slot 3



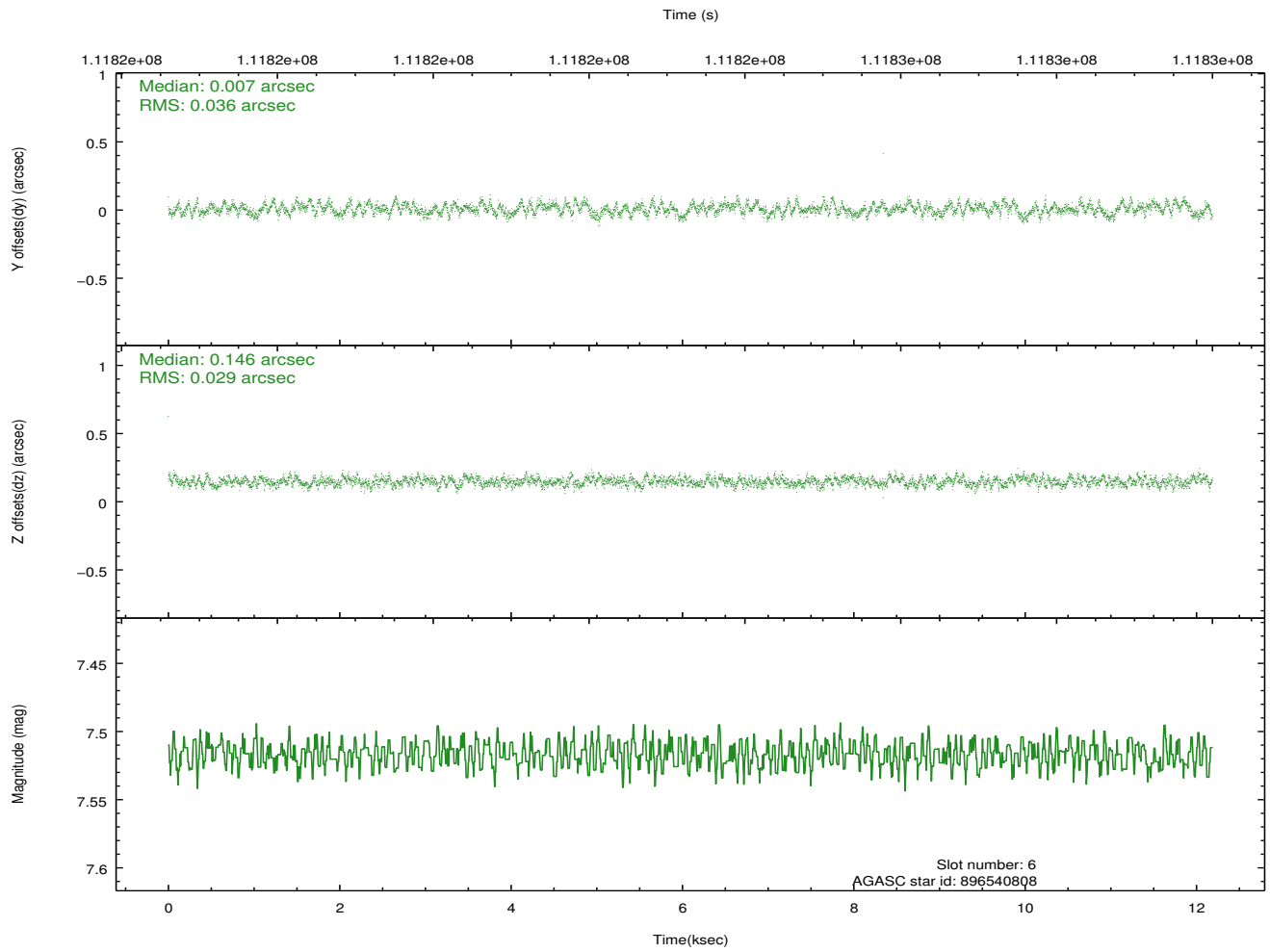
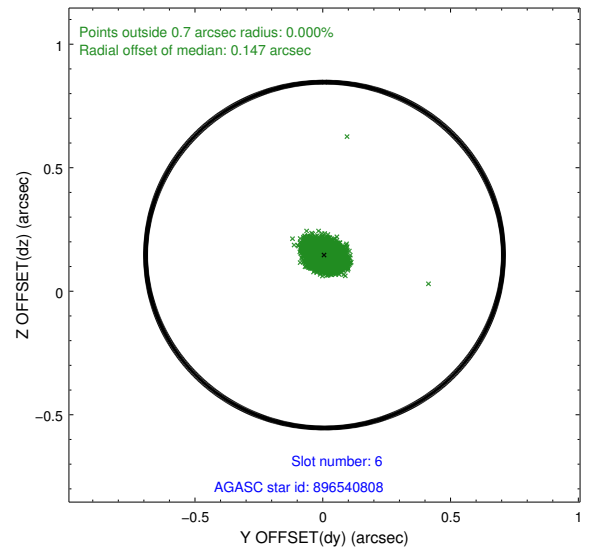
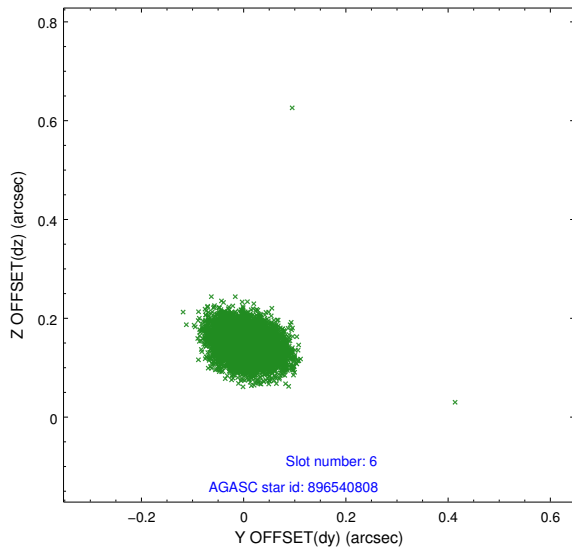
2.4.2 Slot 4



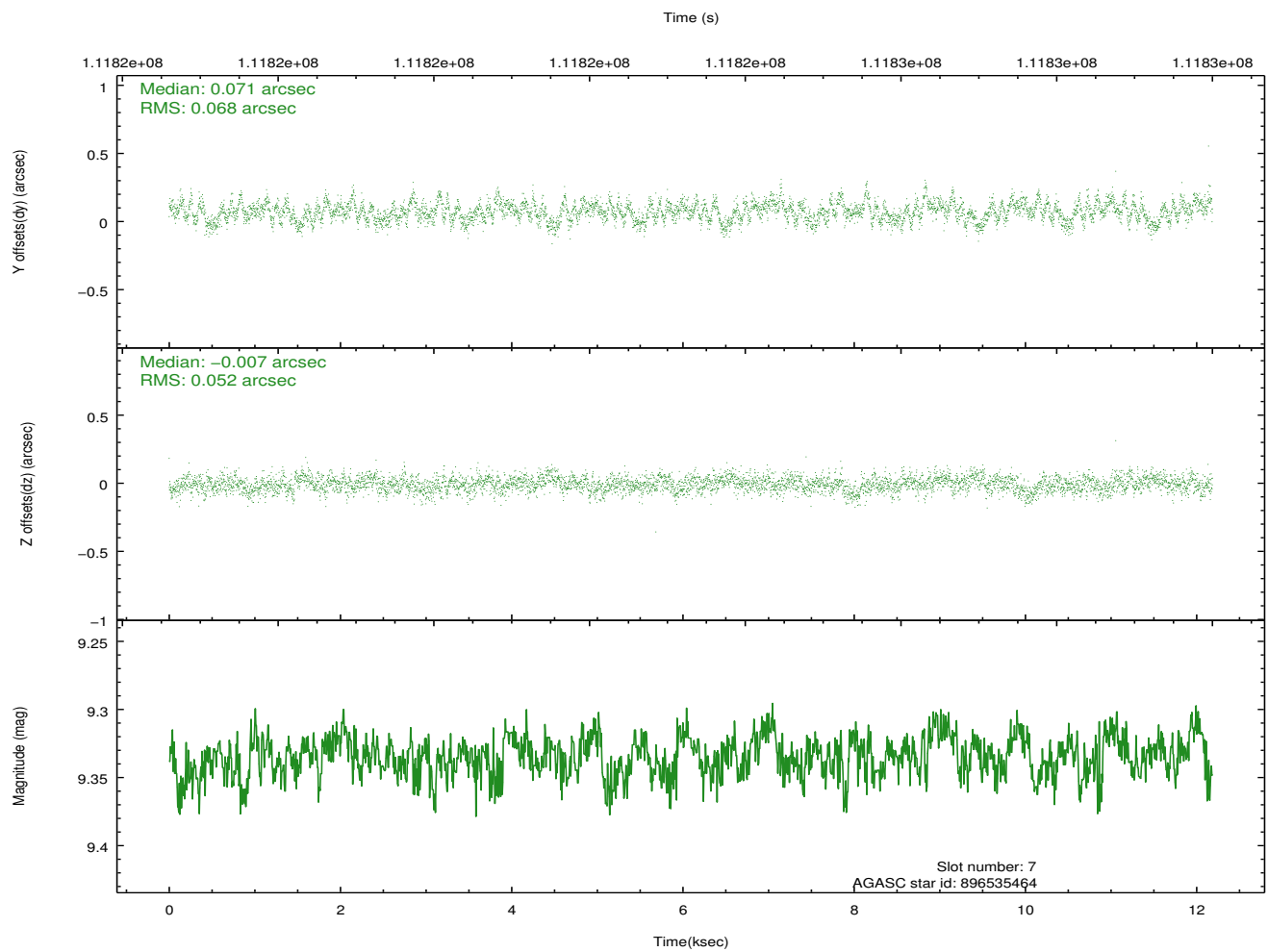
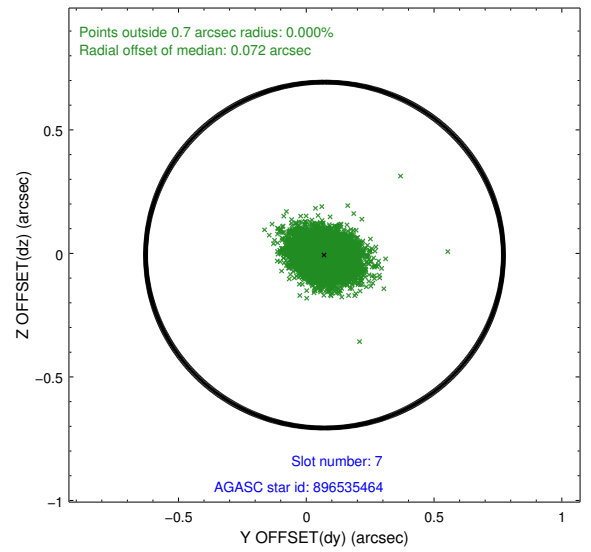
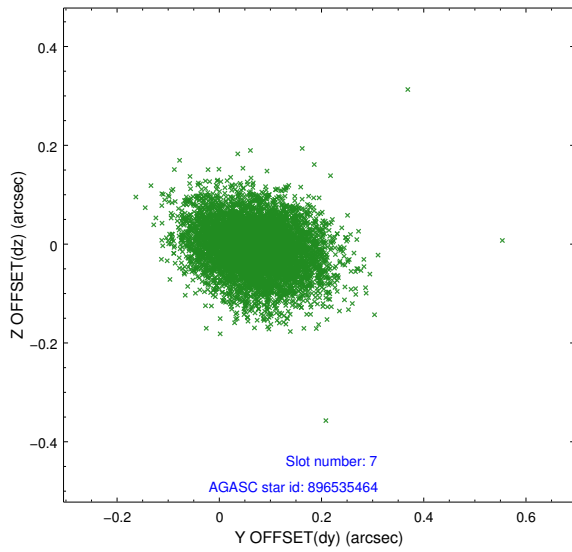
2.4.3 Slot 5



2.4.4 Slot 6

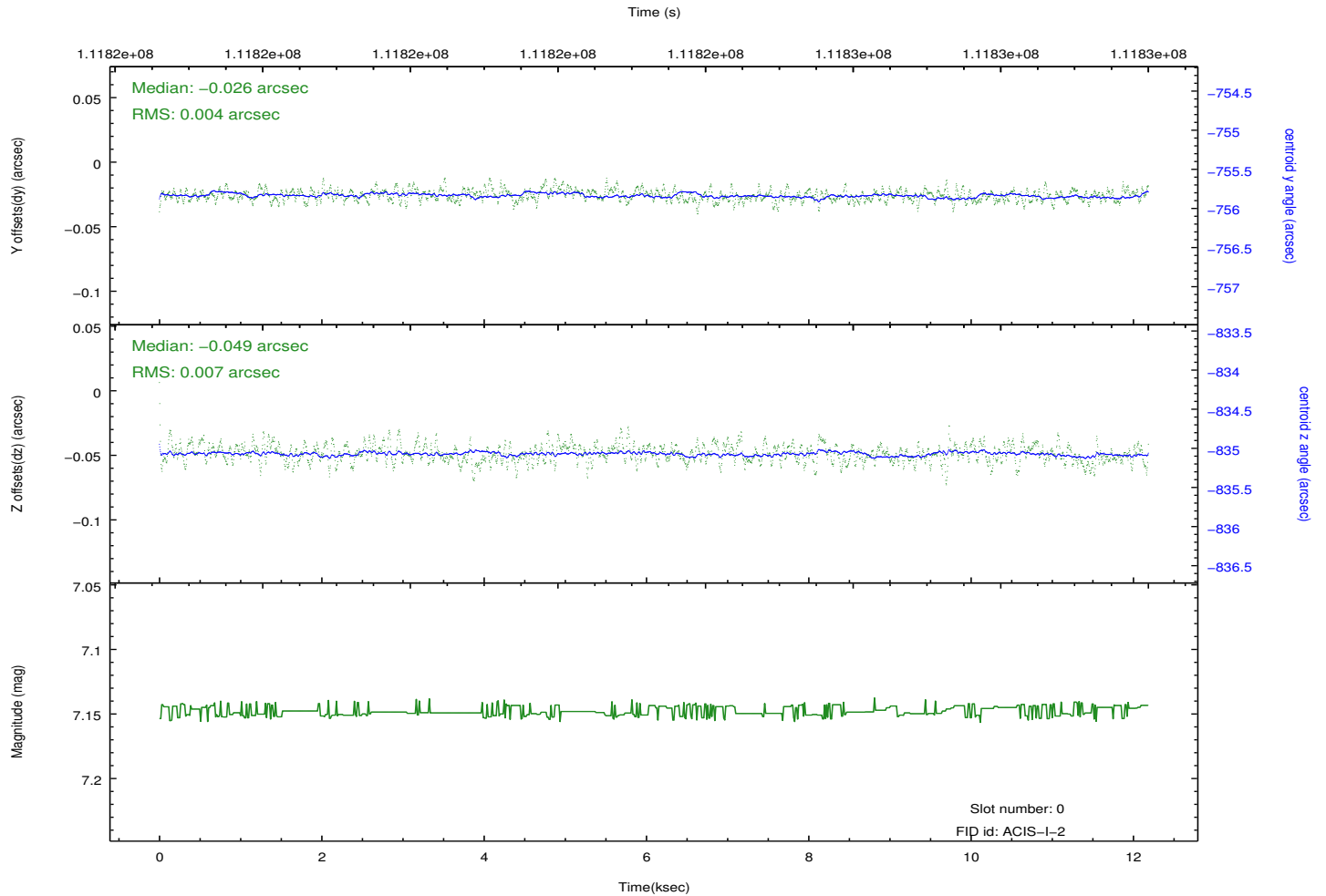
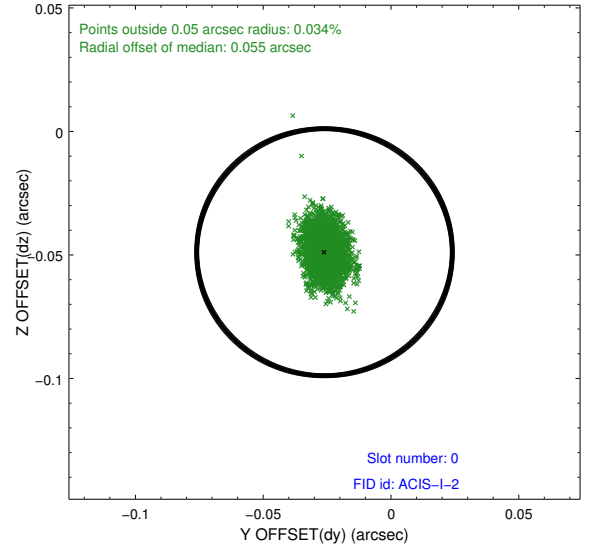
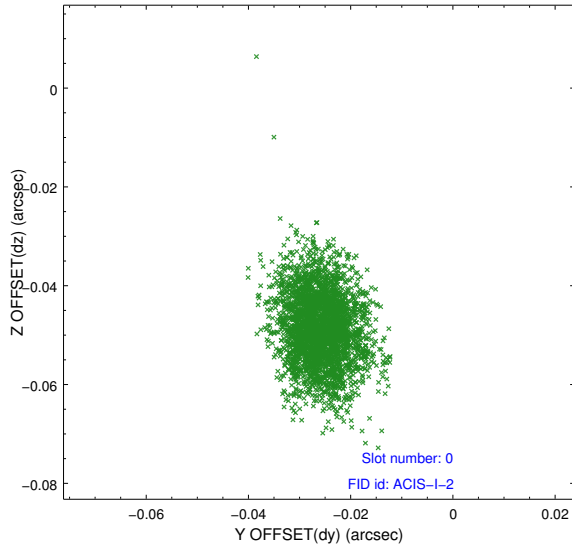


2.4.5 Slot 7

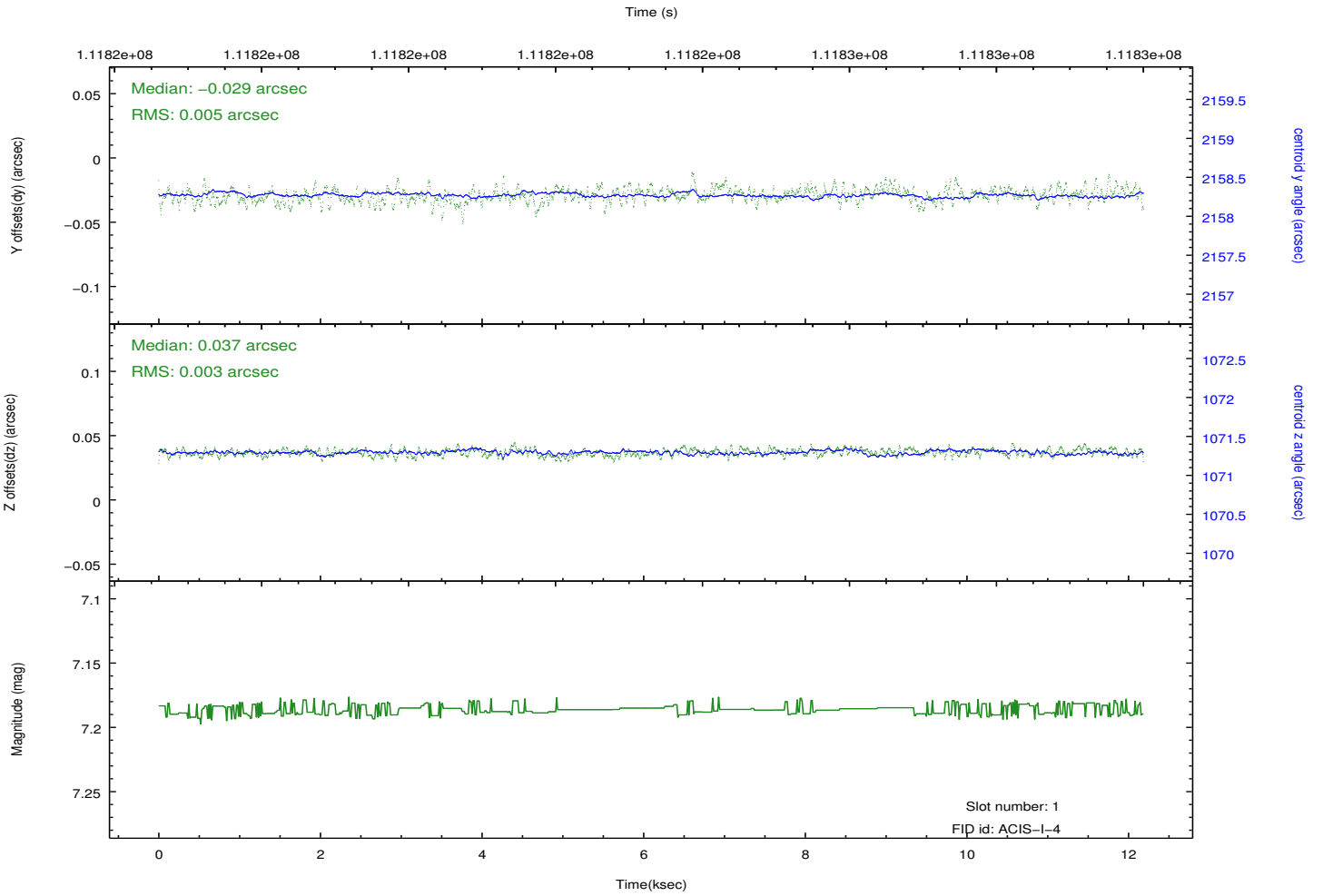
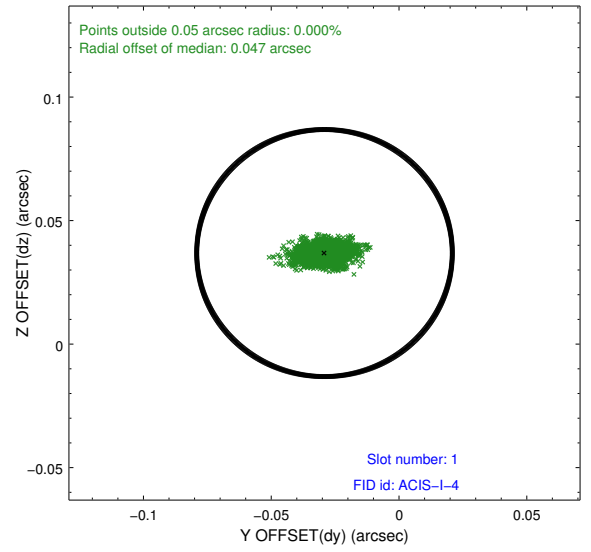
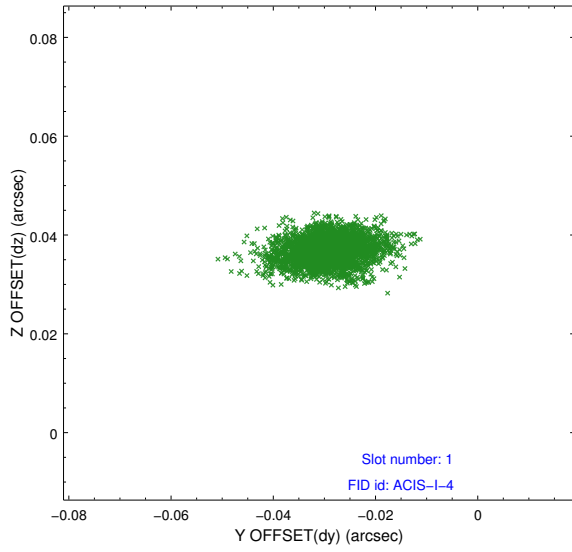


2.5 FID Slots

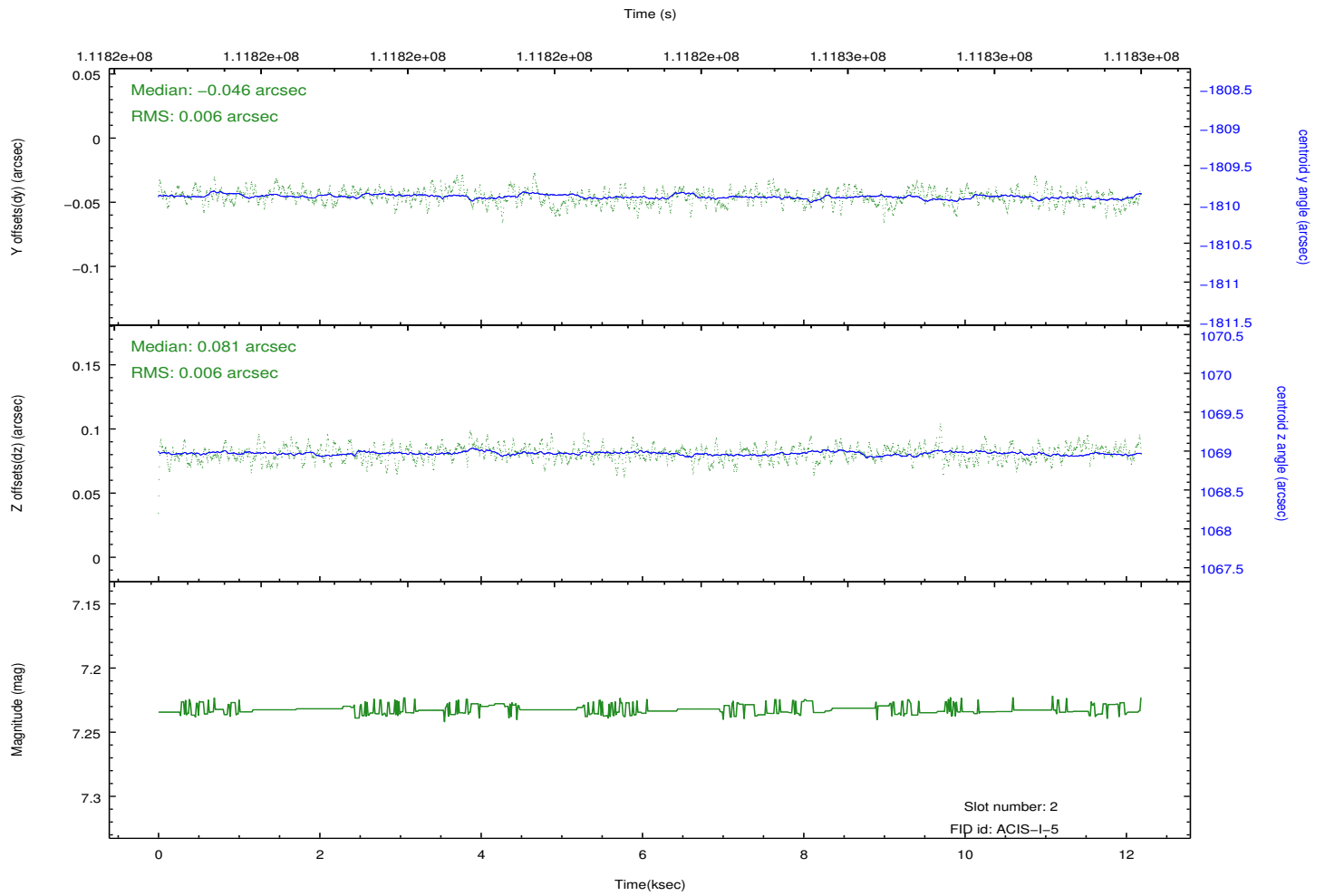
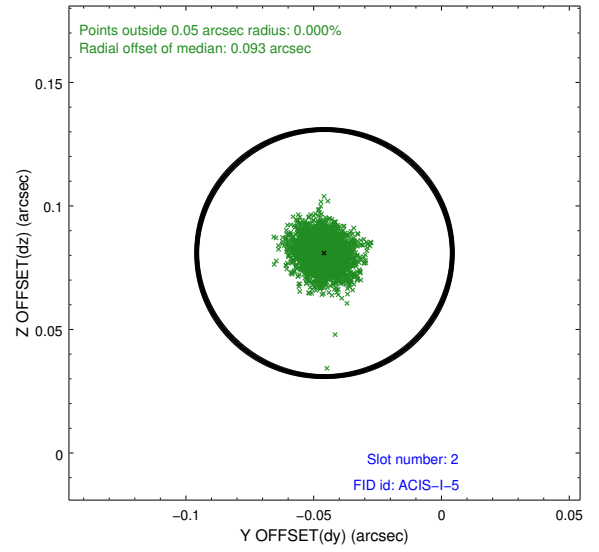
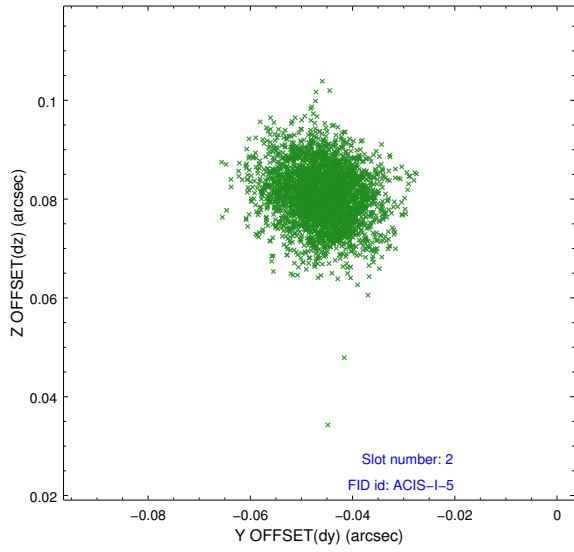
2.5.1 Slot 0



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)	2012.10.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.8

A.2 Comments

Charge time for this ObsId remains at previous value of 11.8 ks although with the current processing the charge time would have been 11.76 ksec.

Roll constraint met.

=====

A spatial region of the original bias map for CCD = 1 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 = 1 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:

(266.40961,-28.65827),(266.40539,-28.65919),(266.40979,-28.67495),(266.41401,-28.67403)