

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 12315 - L2 Version 4
Chandra X-Ray Center

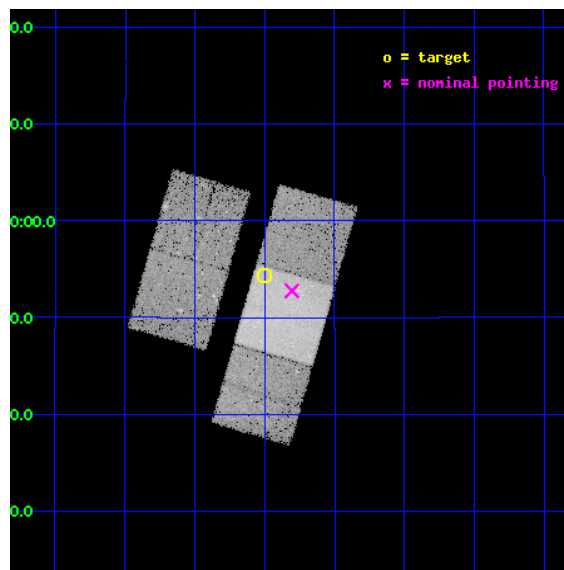
L2 Processing Date : Mar 10 2012

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1 Front

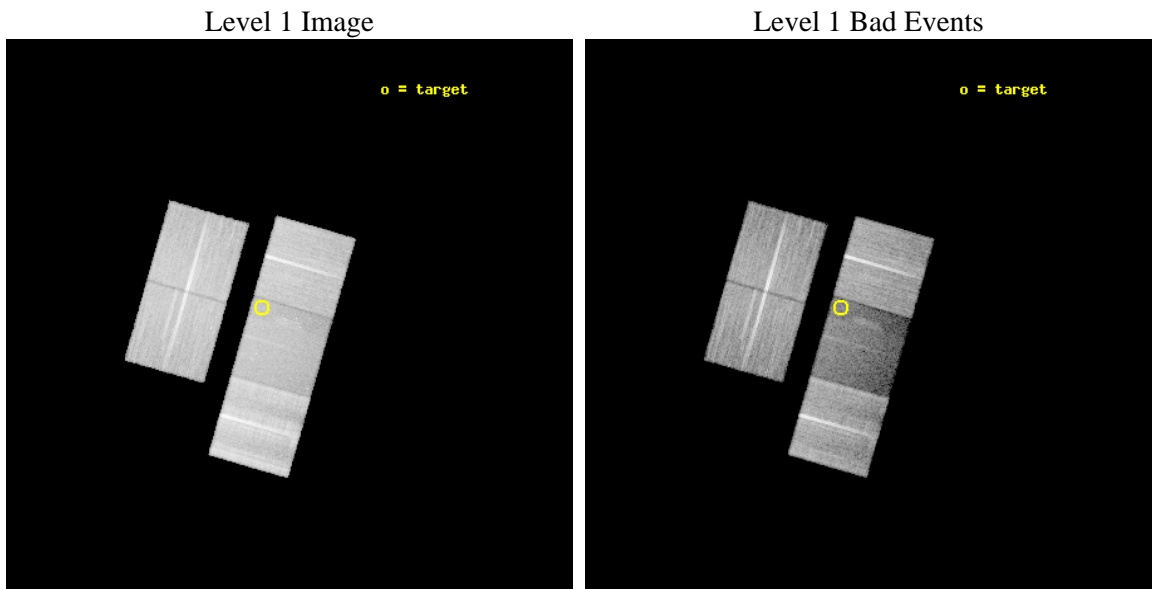
seq_num	100072	Sequence number
obs_id	12315	Observation id
title	Effects of Coronal Mass Ejection (CME) propagation on planetary aurorae: the Chandra view	Proposal title
observer	Prof. Graziella Branduardi-Raymont	Principal investigator
object	Jupiter	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	36.499875	Observer's specified target RA [deg]
dec_targ	12.905556	Observer's specified target Dec [deg]
ra_nom	36.451323169648	Nominal RA [deg]
dec_nom	12.879311401893	Nominal Dec [deg]
roll_nom	106.00327560521	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39773.000305891	Sum of GTIs [s]
livetime	39253.336776438	Livetime [s]
ontime2	39766.718295217	Sum of GTIs [s]
ontime3	39769.85927552	Sum of GTIs [s]
ontime6	39769.859325528	Sum of GTIs [s]
ontime7	39773.000305891	Sum of GTIs [s]
ontime8	39760.436314762	Sum of GTIs [s]
l2events	135059	Number of level 2 events



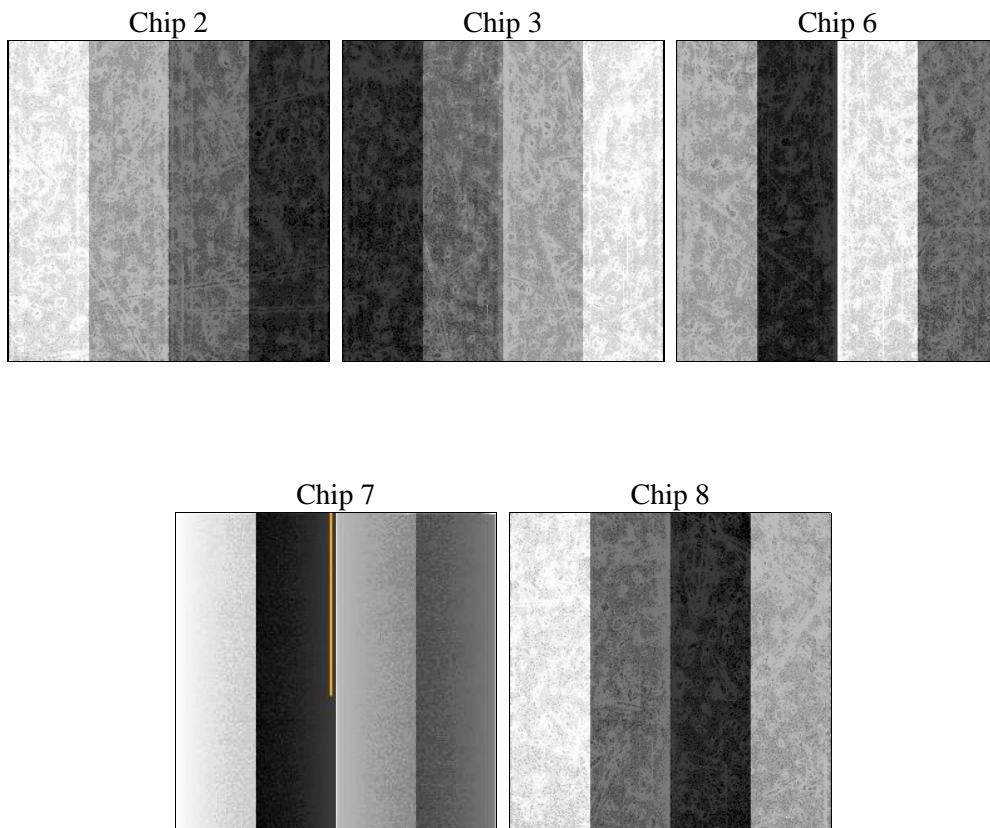
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	40000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.3.1	Processing system revision	ontime	39773.000305891	Sum of GTIs [s]
caldbver	4.4.8	 	ontime2	39766.718295217	Sum of GTIs [s]
date	2012-03-10T05:50:27	Date and time of file creation	ontime3	39769.85927552	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	39769.859325528	Sum of GTIs [s]
			ontime7	39773.000305891	Sum of GTIs [s]
			ontime8	39760.436314762	Sum of GTIs [s]
			l1events	923912	Number of level 1 events

2.1.4 Events

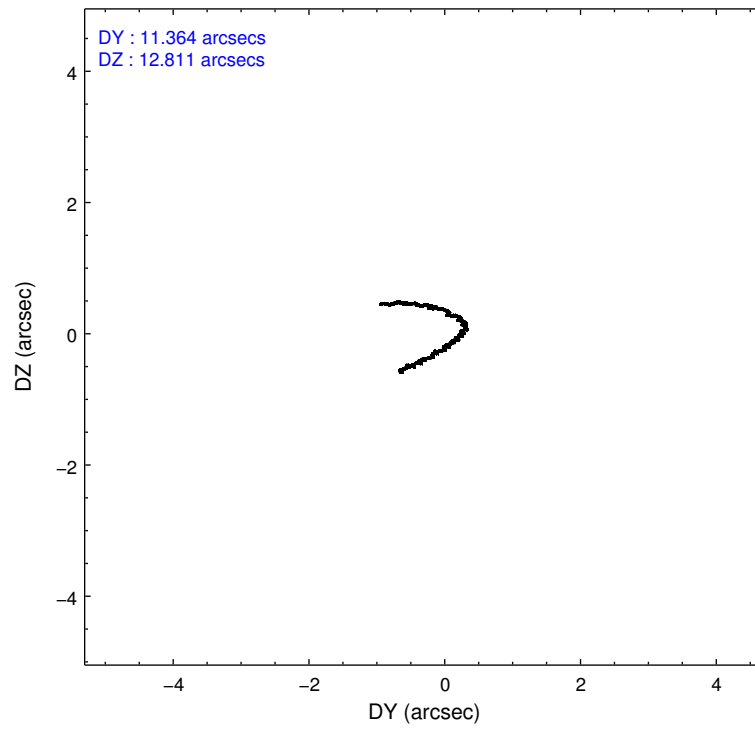
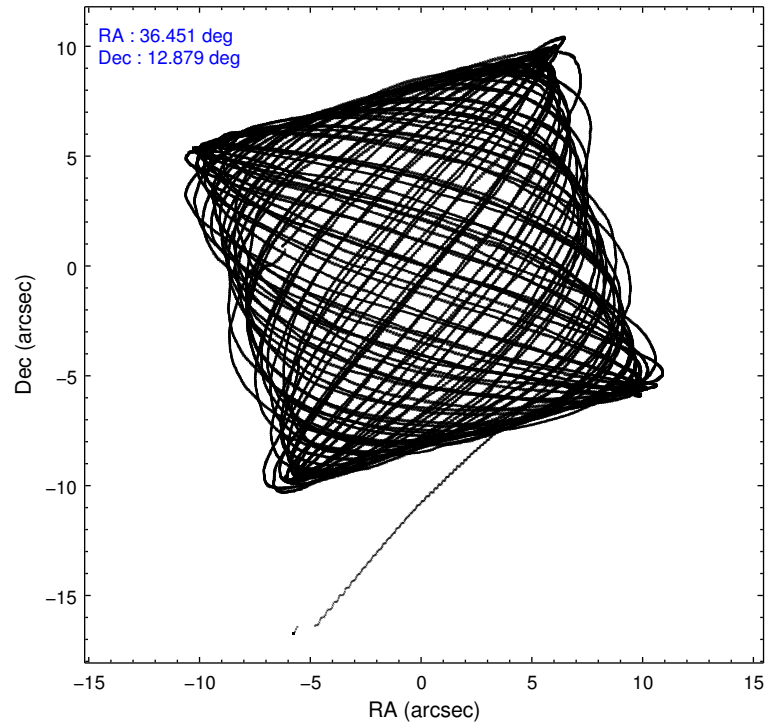
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
level 1 events	185453	178054	188540	133752	238113
rejected events	166110	159825	169408	62816	167127
rejected %	89%	89%	89%	46%	70%

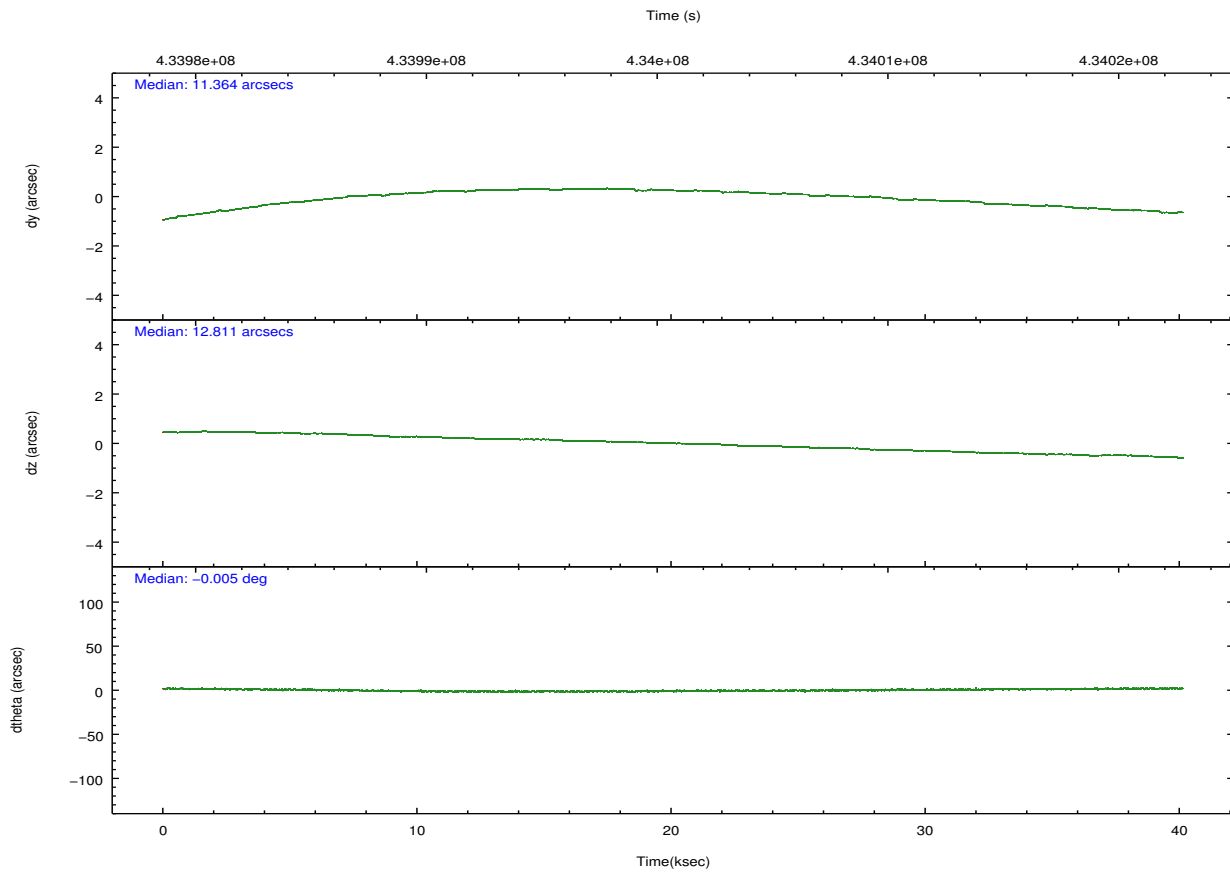
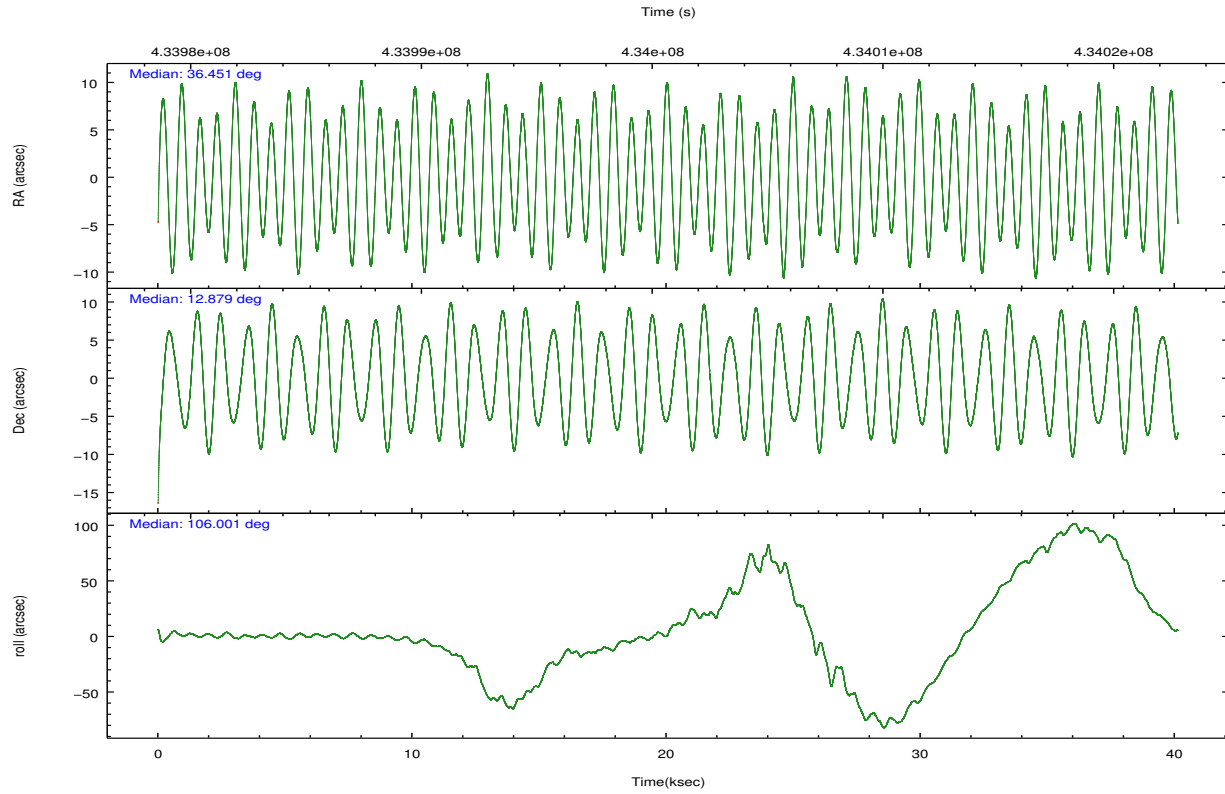
	ccd 2	ccd 3	ccd 6	ccd 7	ccd 8
grade 0 events	8033	7567	7344	7969	20031
	4%	4%	3%	5%	8%
grade 1 events	112	108	100	287	200
	0%	0%	0%	0%	0%
grade 2 events	4709	3986	4492	16953	16959
	2%	2%	2%	12%	7%
grade 3 events	1869	1927	1986	6185	8037
	1%	1%	1%	4%	3%
grade 4 events	1872	1822	1926	6174	7354
	1%	1%	1%	4%	3%
grade 5 events	3981	4801	4844	14043	8247
	2%	2%	2%	10%	3%
grade 6 events	2860	2929	3385	33660	18628
	1%	1%	1%	25%	7%
grade 7 events	162017	154914	164463	48481	158657
	87%	87%	87%	36%	66%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23678	ACIS-23678	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	36.471750	36.45132316964802	Subarray requested	NONE	NONE
[deg] Pointing Dec	12.860594	12.87931140189318	Alternating exposures requested	N	N
[deg] Pointing Roll	105.842092	106.0032756052089	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	433980753.184000	433979731.91113			
Observation start date	2011-10-02T22:11:27	2011-10-02T21:55:31			
[s] Observation end time (MET)	434020753.184000	434021351.52581			
Observation end date	2011-10-03T09:18:07	2011-10-03T09:29:11			
Read mode	TIMED	TIMED			

2.3 Aspect





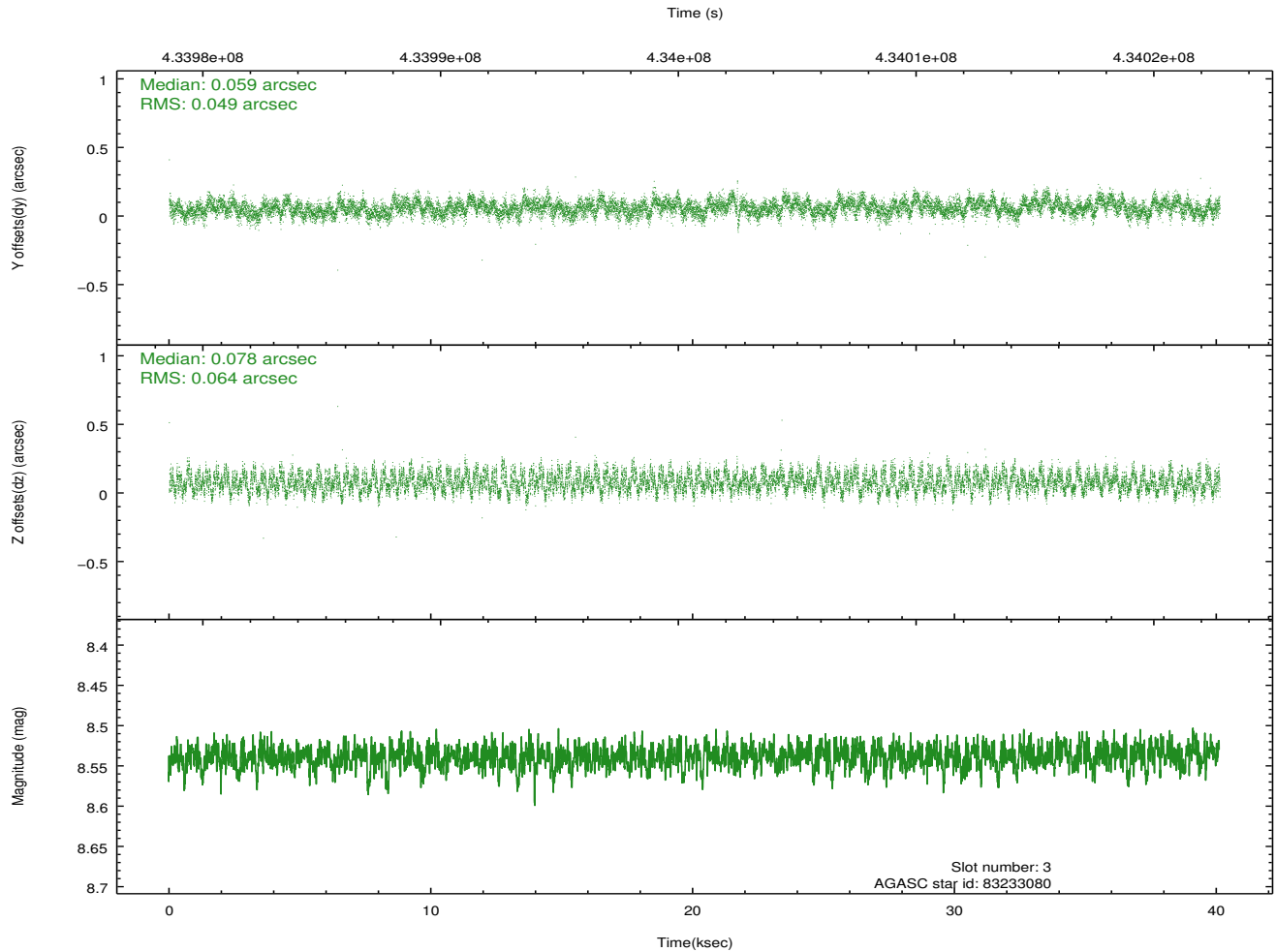
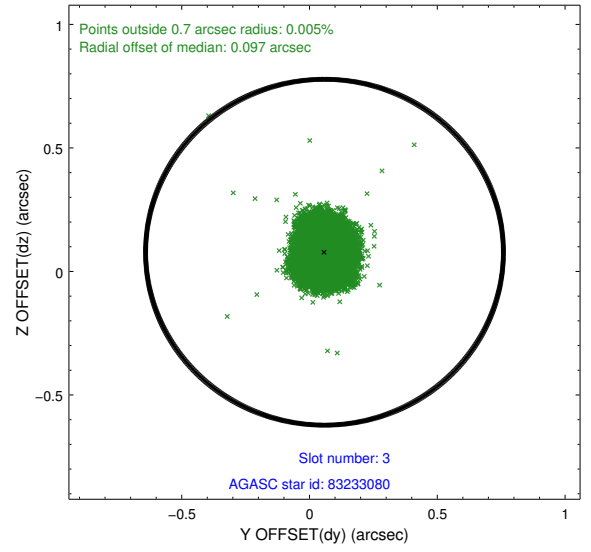
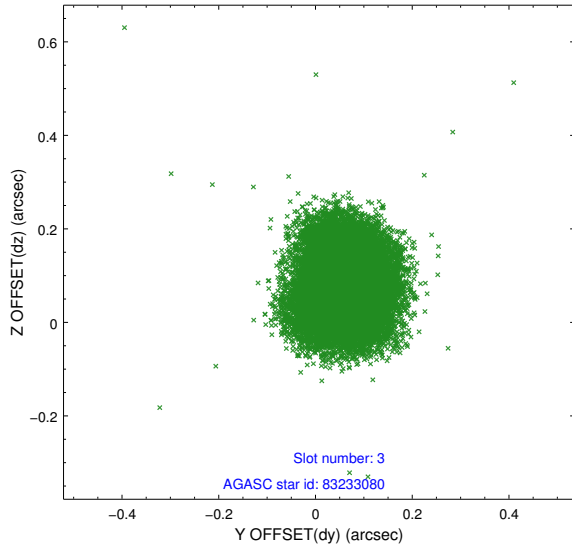
Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-1	7.02	9789	0.100	-0.075	0.013	0.027	0.000000	0.000000	931.96	-1729.83
1	FID	ACIS-S-5	7.06	9787	-0.137	0.070	0.013	0.026	0.000000	0.000000	-1817.23	167.89
2	FID	ACIS-S-6	7.15	9789	0.016	0.014	0.018	0.041	0.000000	0.000000	397.46	811.78
3	GUIDE	83233080	8.54	19568	0.059	0.078	0.087	0.136	36.957124	12.454444	-1870.47	-1242.49
4	GUIDE	83624944	9.17	19561	-0.157	-0.195	0.089	0.144	36.137433	13.017339	863.02	973.02
5	GUIDE	83627072	8.78	19555	0.099	0.122	0.097	0.156	37.137809	12.752364	-1010.17	-2144.23
6	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

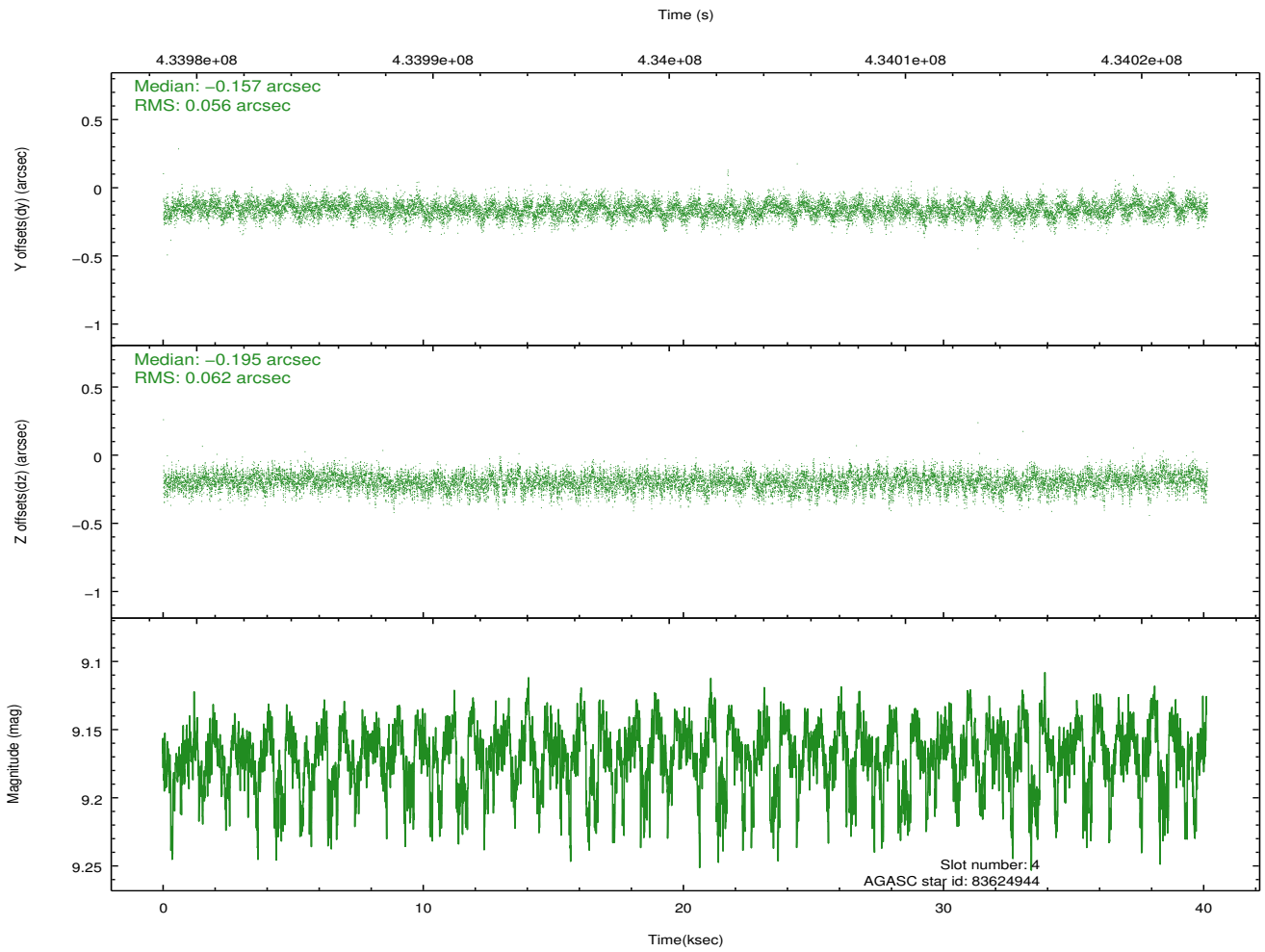
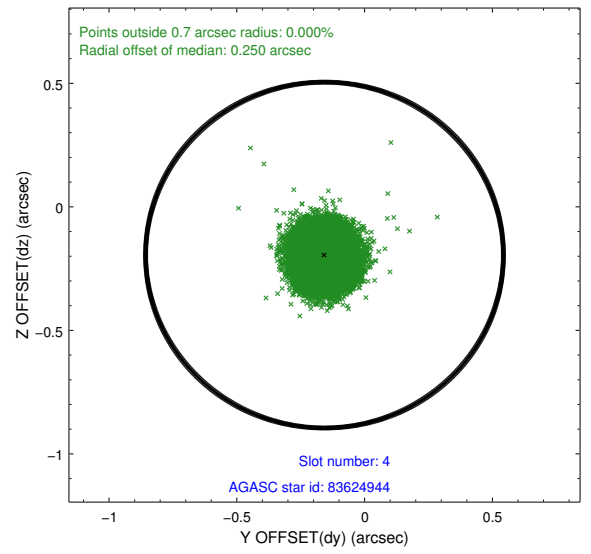
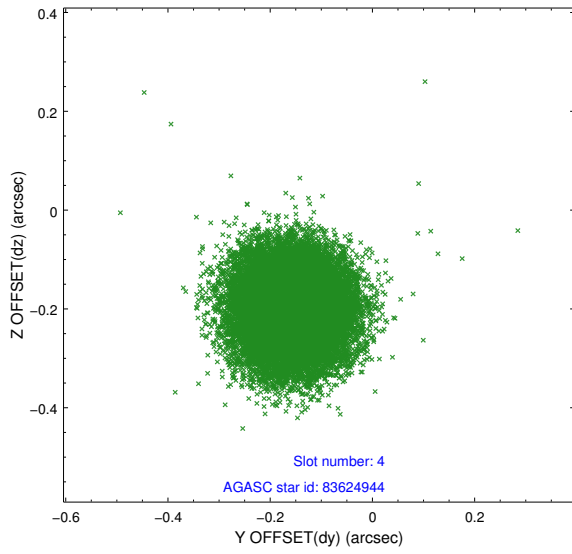
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2.4 Star Slots

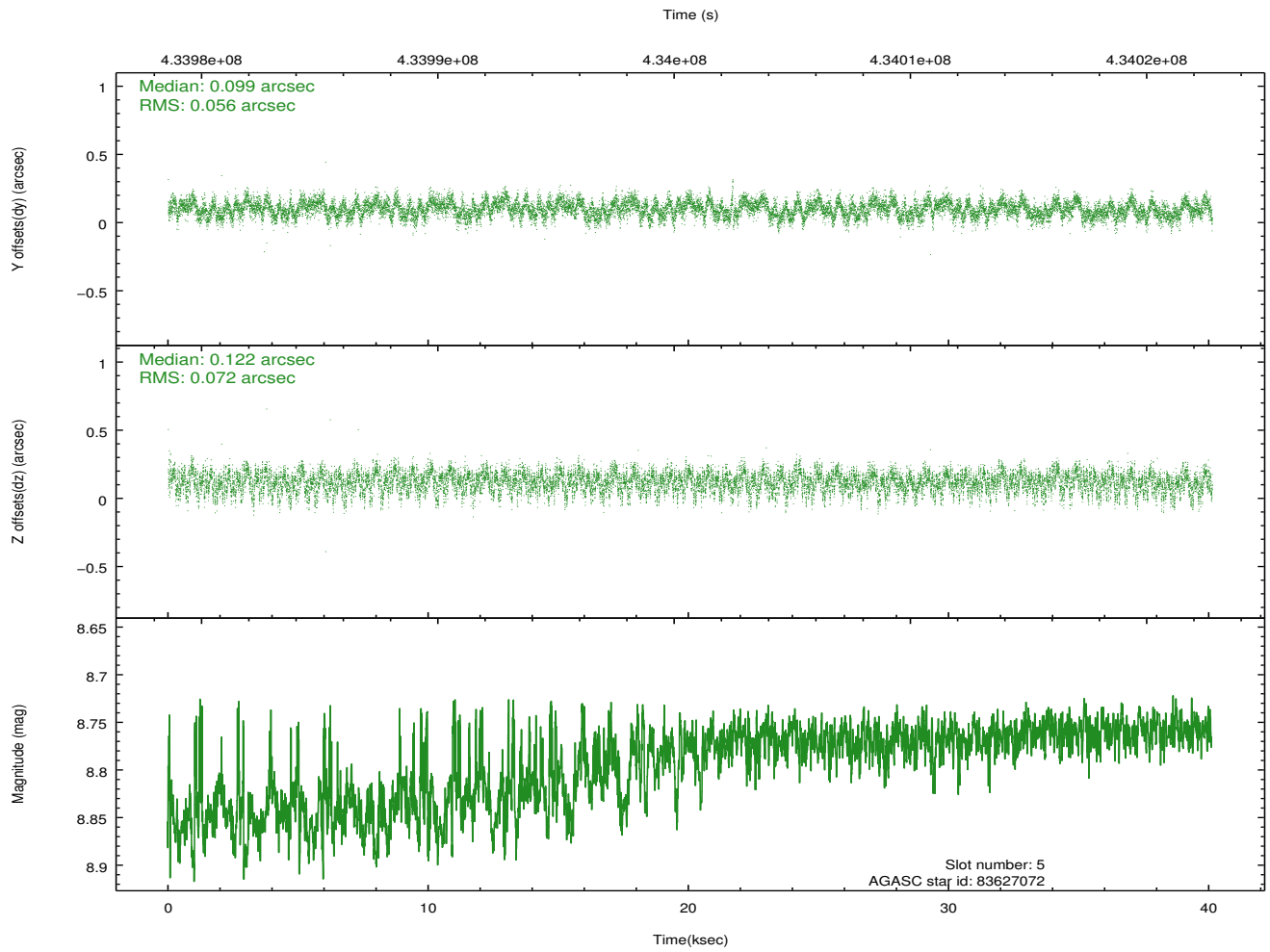
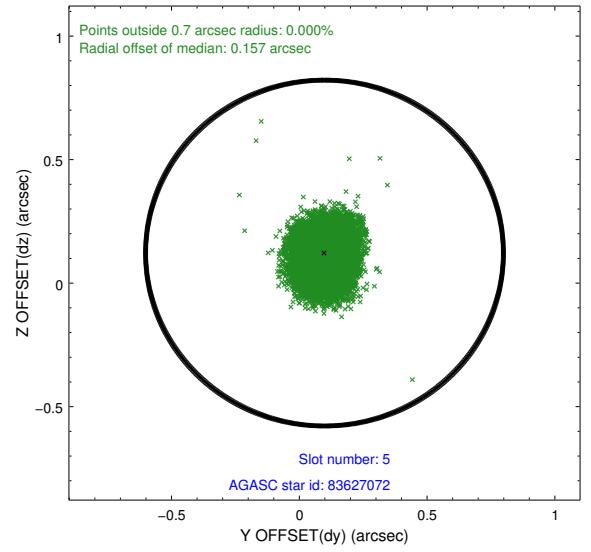
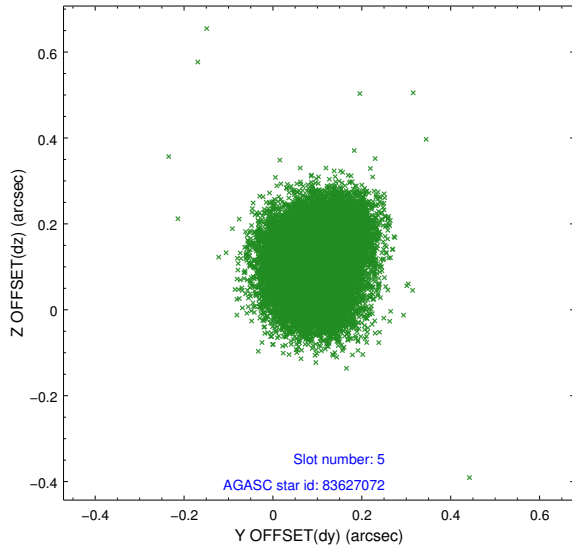
2.4.1 Slot 3



2.4.2 Slot 4

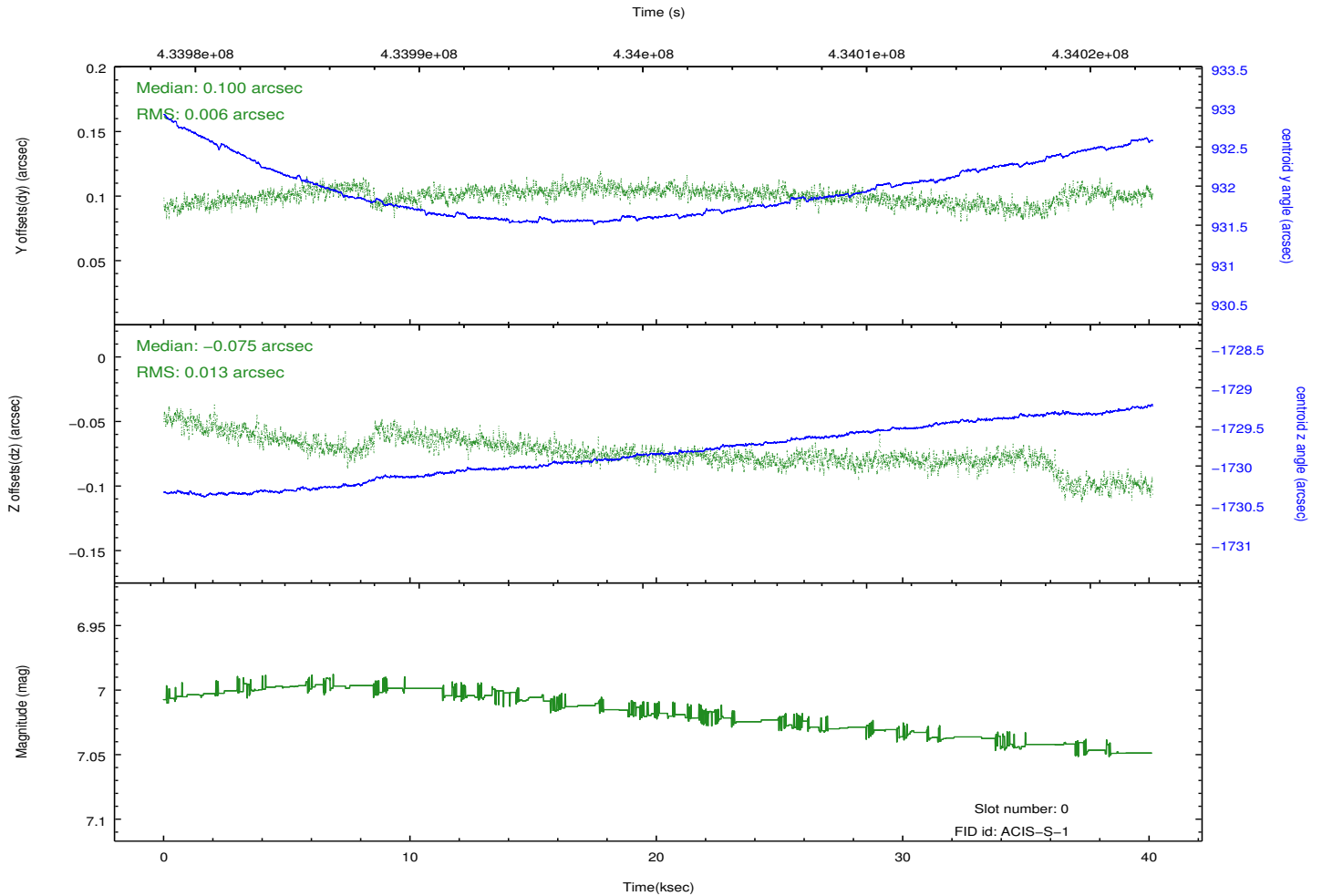
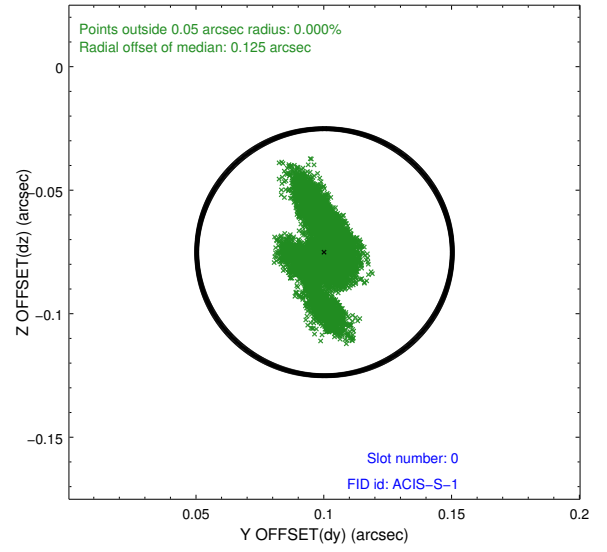
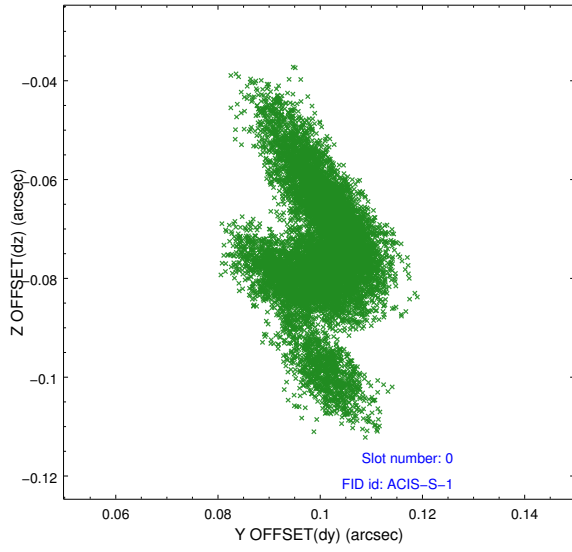


2.4.3 Slot 5

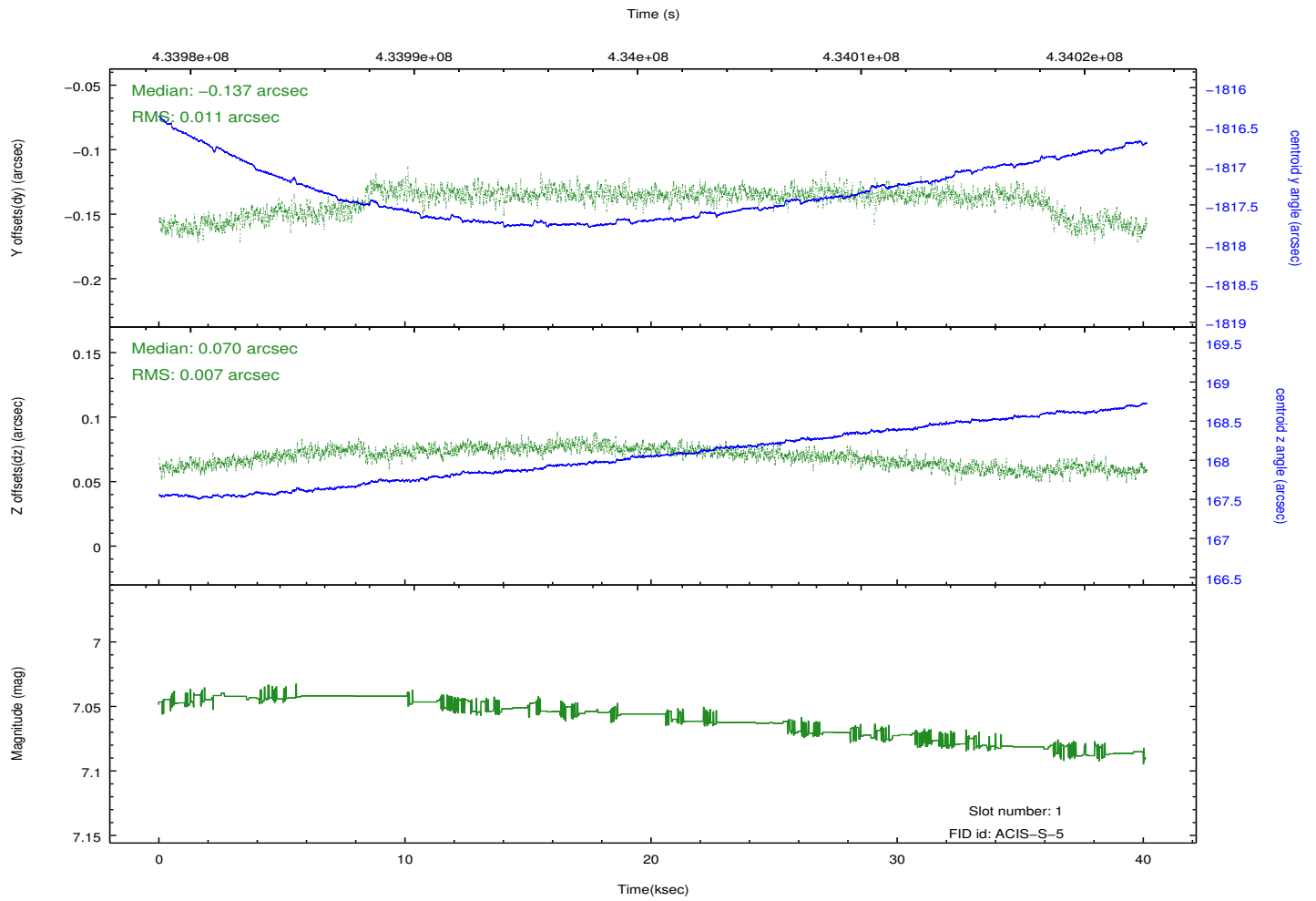
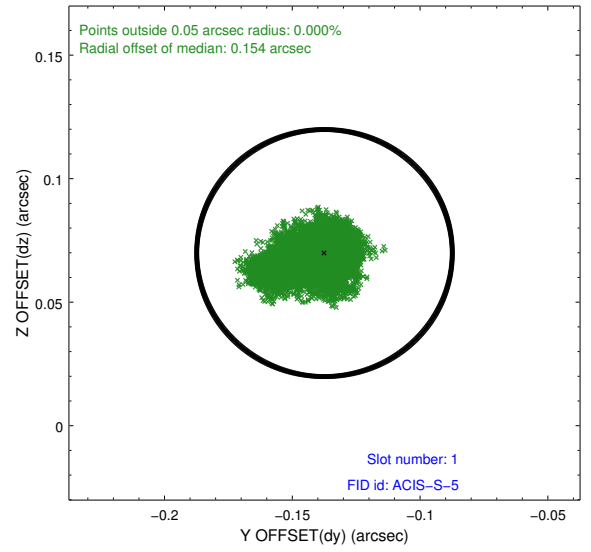
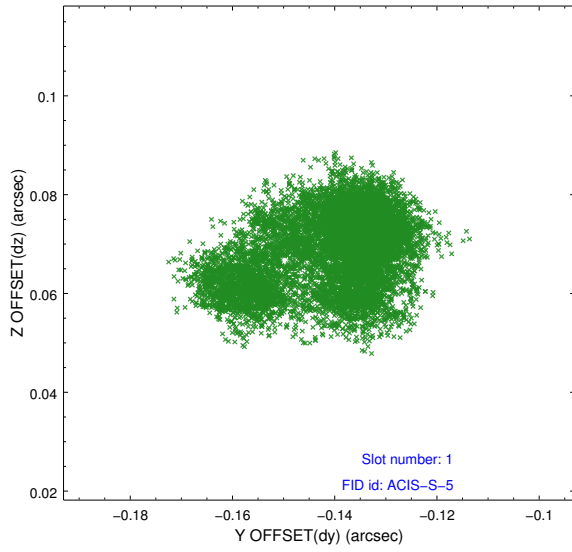


2.5 FID Slots

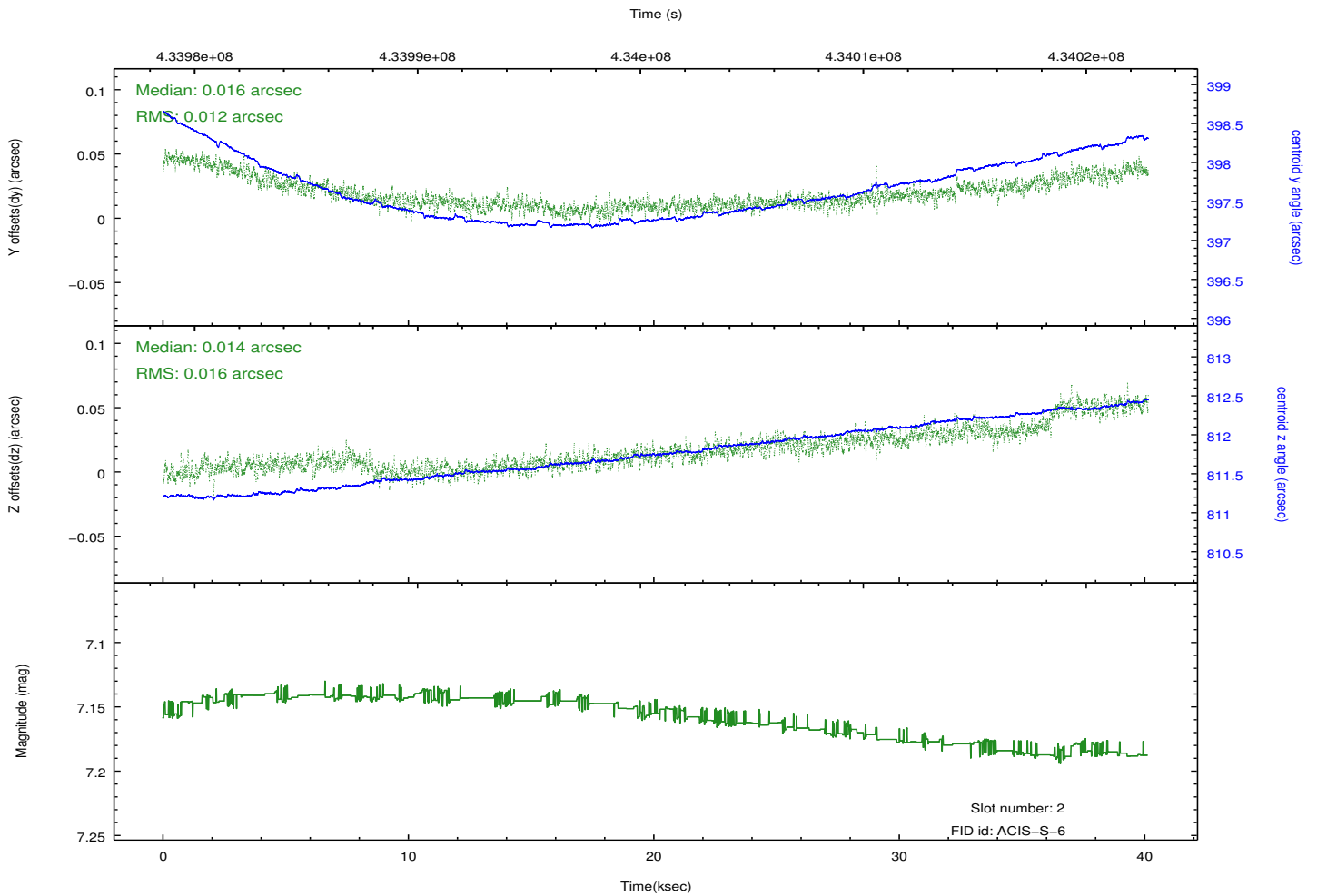
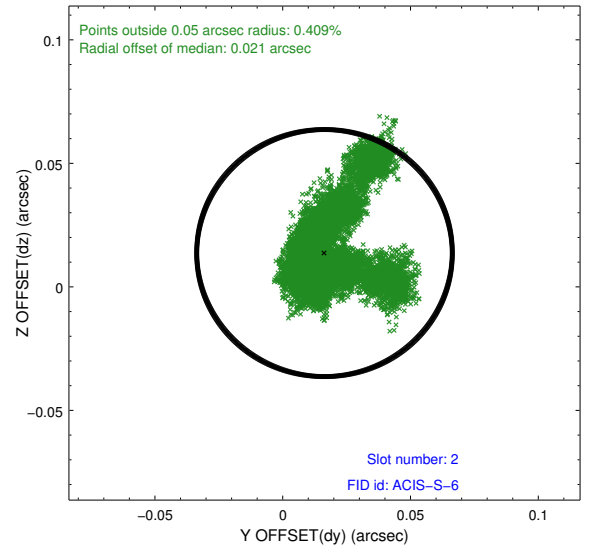
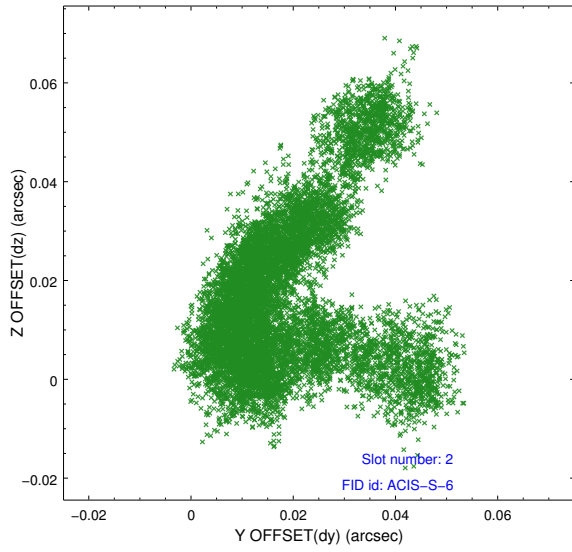
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.03.12
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.773000305891

A.2 Comments

The guide stars in slots 6 and 7 were removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of these guide stars from the solution.