

V&V Reference Report

L2 ASCDS Version : 10.2.4

Observation 16177 - L2 Version 2
Chandra X-Ray Center

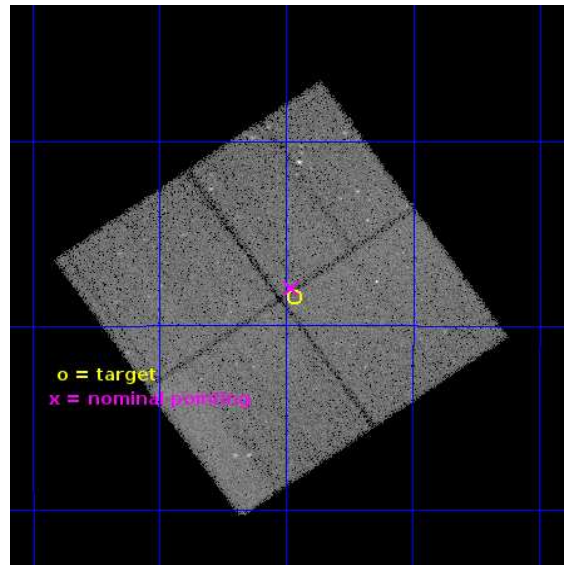
L2 Processing Date : Oct 15 2014

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1 Front

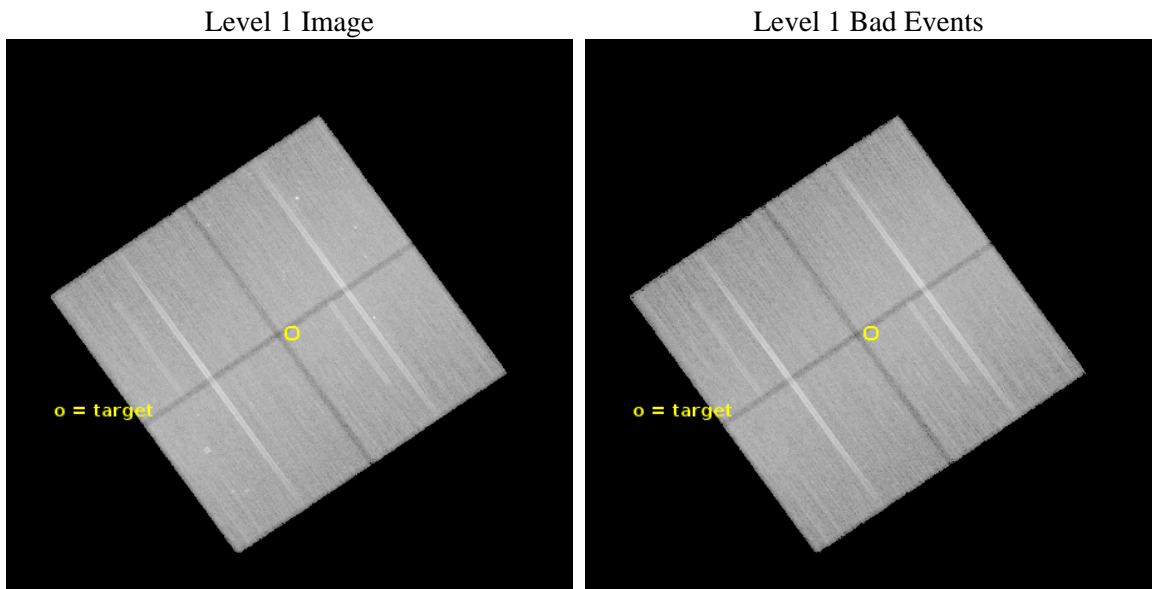
seq_num	901115	Sequence number
obs_id	16177	Observation id
title	The Chandra Deep Field-South: A Peerless Ultradeep Survey for Exploring the Distant X-ray Universe	Proposal title
observer	Prof. W.N. Brandt	Principal investigator
object	Chandra Deep Field-South	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	53.117083	Observer's specified target RA [deg]
dec_targ	-27.807333	Observer's specified target Dec [deg]
ra_nom	53.119887095724	Nominal RA [deg]
dec_nom	-27.799528855053	Nominal Dec [deg]
roll_nom	55.009994508889	Nominal Roll [deg]
revision	2	Processing version of data
ontime	128088.06254262	Sum of GTIs [s]
livetime	126414.49770844	Livetime [s]
ontime0	128081.6573419	Sum of GTIs [s]
ontime1	128078.55736154	Sum of GTIs [s]
ontime2	128072.31632066	Sum of GTIs [s]
ontime3	128088.06254262	Sum of GTIs [s]
l2events	253611	Number of level 2 events



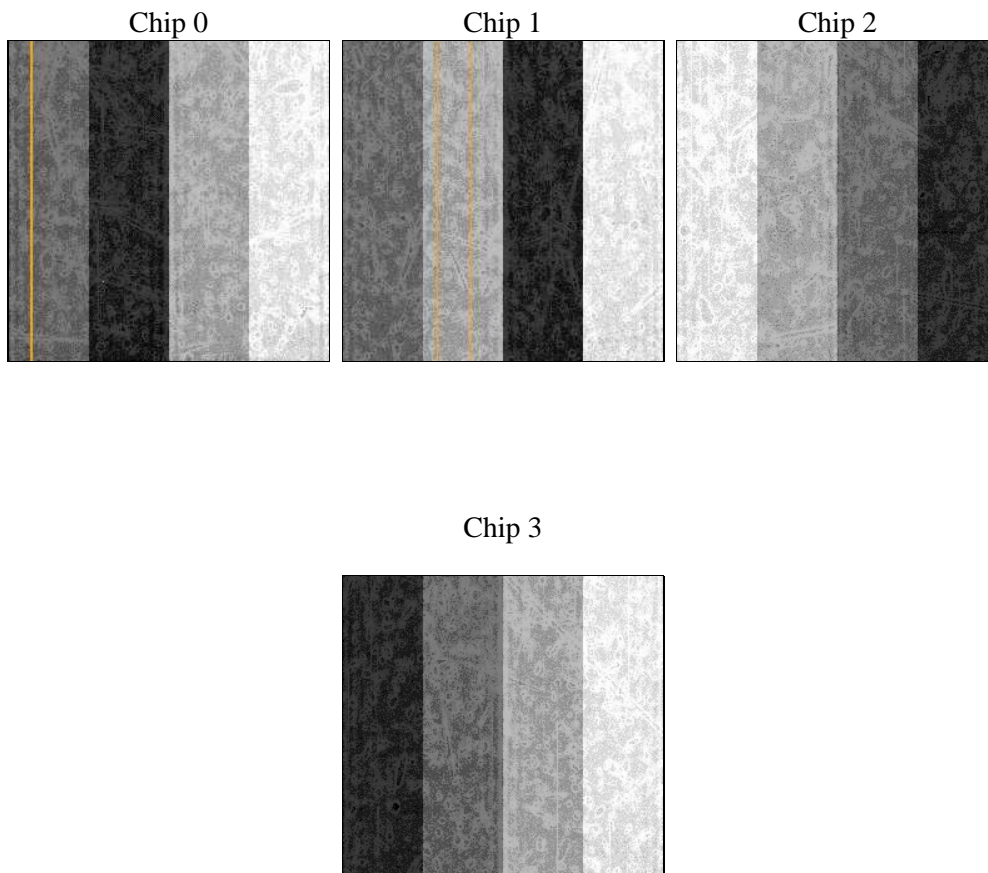
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	128000.000000	[s] Scheduled observation exposure time
ascdsver	10.2.4	Processing system revision	ontime	128088.06254262	Sum of GTIs [s]
caldsver	4.6.3	 	ontime0	128081.6573419	Sum of GTIs [s]
date	2014-10-15T23:10:44	Date and time of file creation	ontime1	128078.55736154	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	128072.31632066	Sum of GTIs [s]
			ontime3	128088.06254262	Sum of GTIs [s]
			l1events	2427268	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	579658	592710	631409	623491
rejected events	505140	509358	556966	552340
rejected %	87%	85%	88%	88%

	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	25005	28883	27391	24543
	4%	4%	4%	3%
grade 1 events	335	296	350	373
	0%	0%	0%	0%
grade 2 events	18906	20372	17811	16077
	3%	3%	2%	2%
grade 3 events	7930	7889	7345	7528
	1%	1%	1%	1%
grade 4 events	7218	7966	7446	7698
	1%	1%	1%	1%
grade 5 events	30032	31724	28361	34041
	5%	5%	4%	5%
grade 6 events	15463	18243	14450	15308
	2%	3%	2%	2%
grade 7 events	474769	477337	528255	517923
	81%	80%	83%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	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	53.117283	53.11988709572376	Subarray requested	NONE	NONE
[deg] Pointing Dec	-27.827032	-27.79952885505348	Alternating exposures requested	N	N
[deg] Pointing Roll	54.800097	55.00999450888899	[s] Primary exposure time	0.000000	3.1
[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)	529192293.184000	529191003.35996			
Observation start date	2014-10-08T21:50:26	2014-10-08T21:30:03			
[s] Observation end time (MET)	529320293.184000	529320933.39217			
Observation end date	2014-10-10T09:23:46	2014-10-10T09:35:33			
Read mode	TIMED	TIMED			

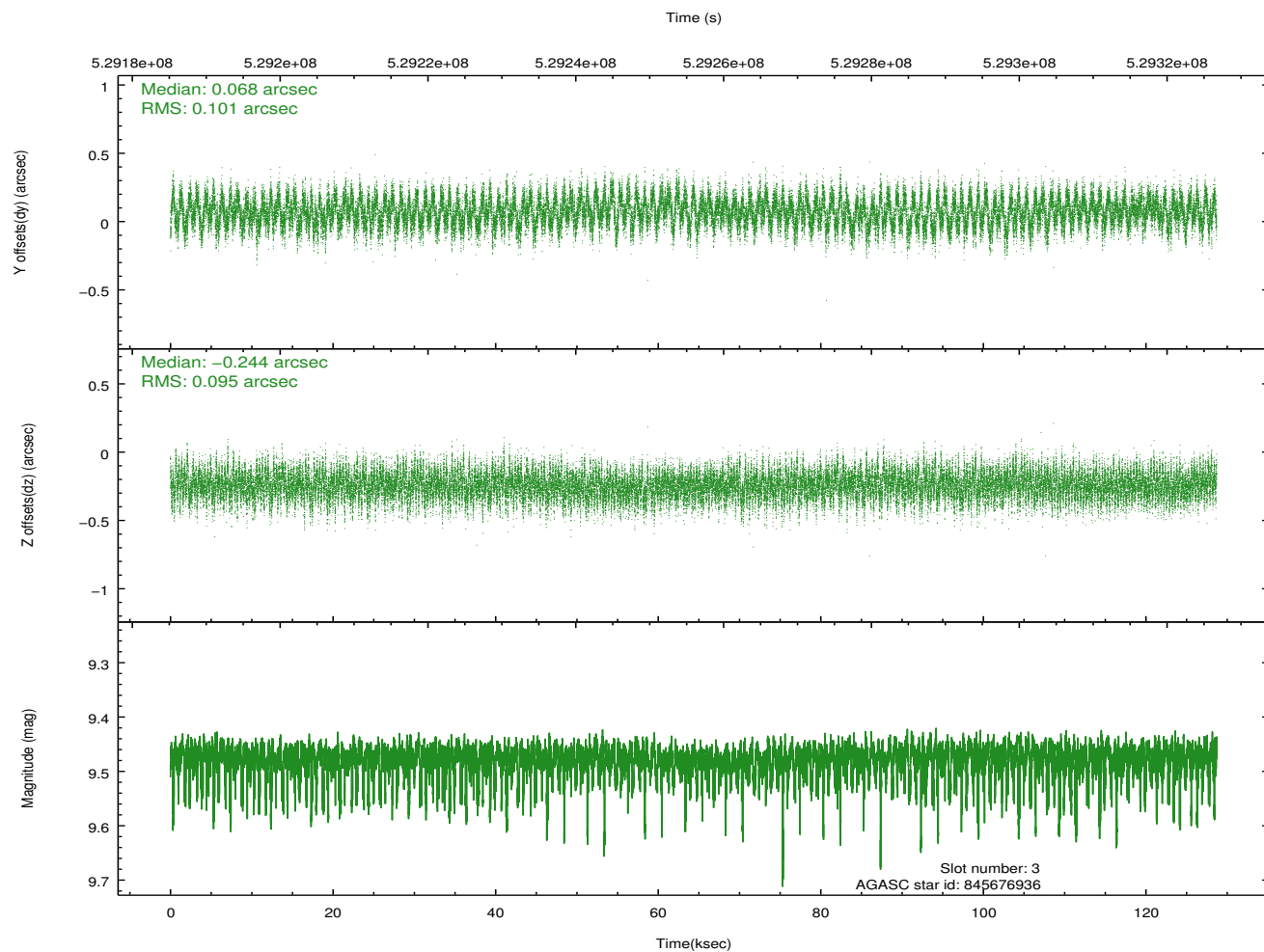
2.3 Aspect

Slot Statistics

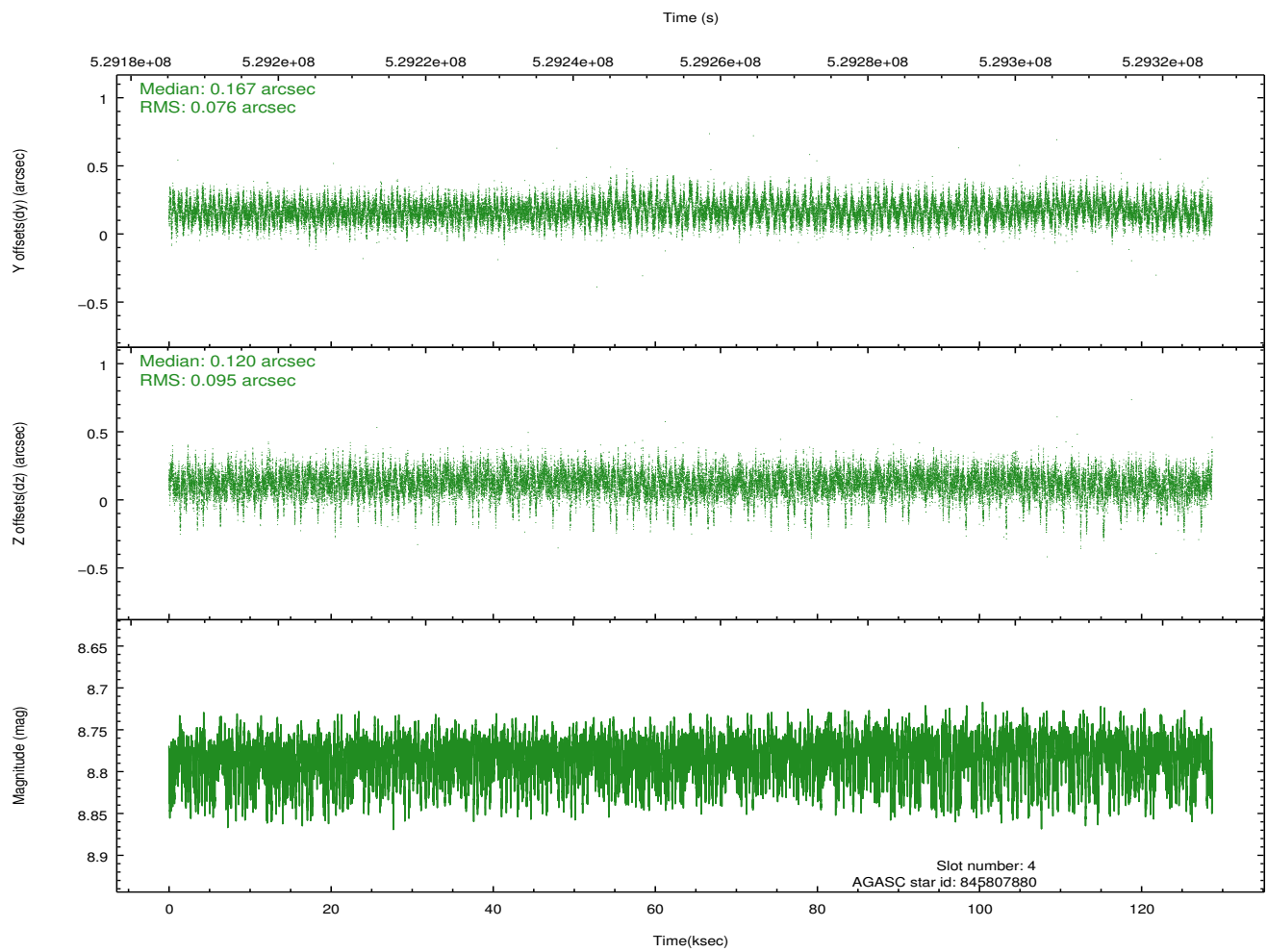
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.17	31393	-0.026	-0.059	0.013	0.026	0.000000	0.000000	913.85	-844.65
1	FID	ACIS-I-4	7.14	31396	0.309	0.077	0.018	0.030	0.000000	0.000000	2134.10	1055.38
2	FID	ACIS-I-5	7.15	31396	-0.384	0.053	0.014	0.023	0.000000	0.000000	-1834.71	1052.95
3	GUIDE	845676936	9.48	62665	0.068	-0.244	0.149	0.233	52.843773	-27.880153	-657.60	599.94
4	GUIDE	845807880	8.78	62752	0.167	0.120	0.123	0.219	53.382027	-27.886093	311.79	-811.27
5	GUIDE	845808496	10.15	62704	0.124	0.143	0.301	0.510	53.777917	-27.725281	1508.81	-1512.30
6	BAD	845808968	9.91	59795	-0.343	-0.023	0.259	0.410	54.016598	-27.589085	2346.35	-1856.72
7	OMITTED		0.00	0	0.000	0.000	0.000	0.000	0.000000	0.000000	0.00	0.00

2.4 Star Slots

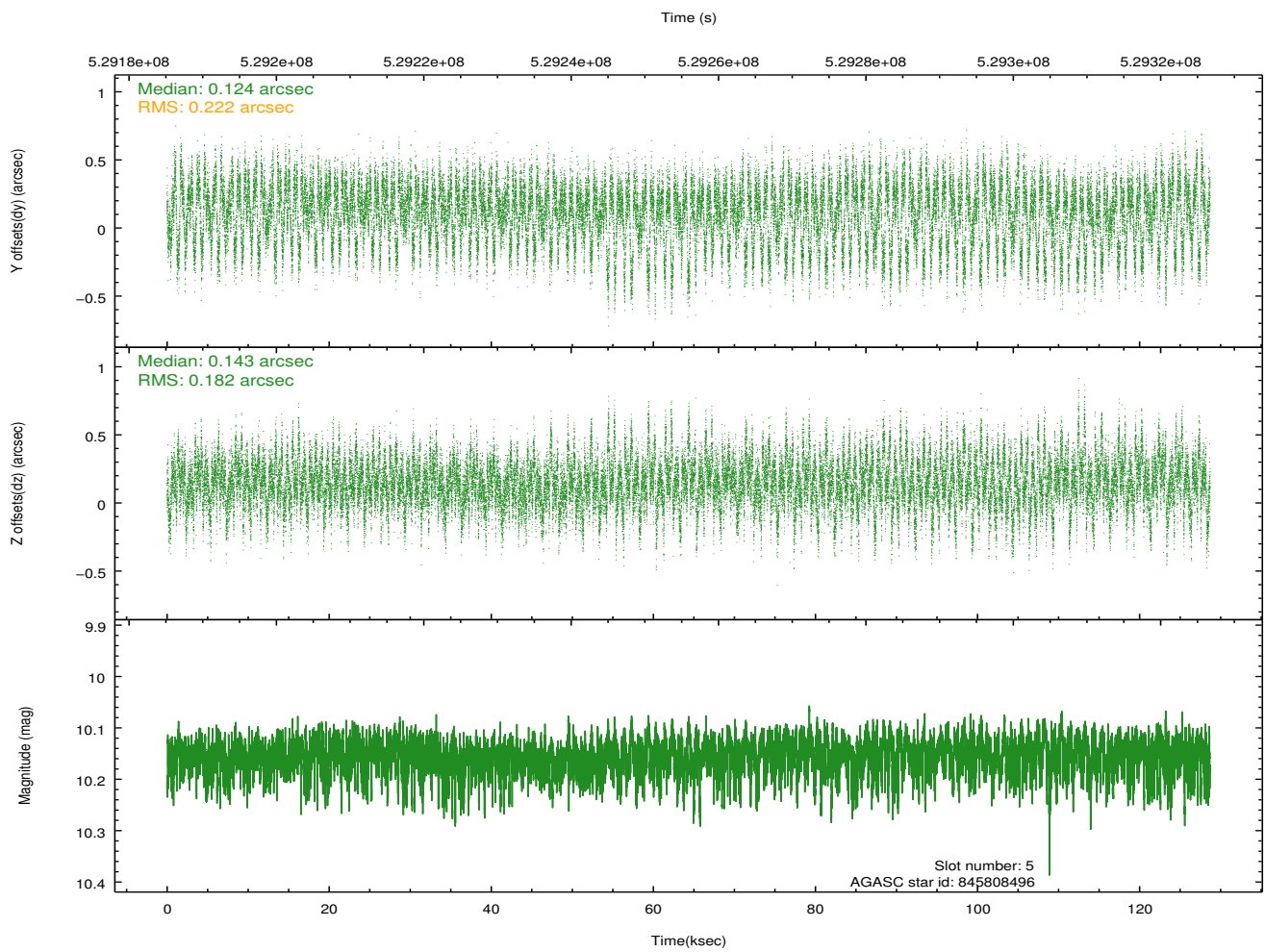
2.4.1 Slot 3



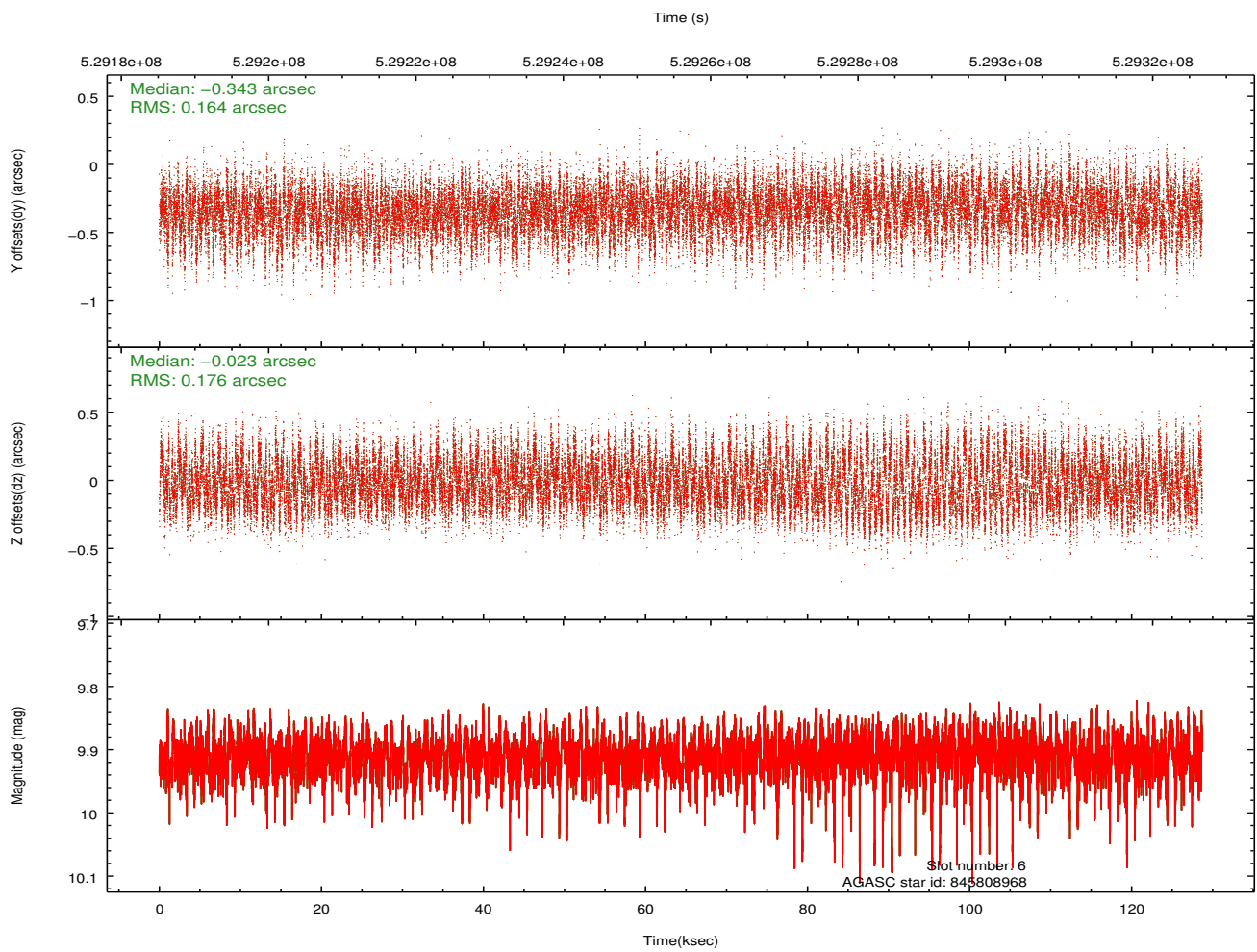
2.4.2 Slot 4



2.4.3 Slot 5

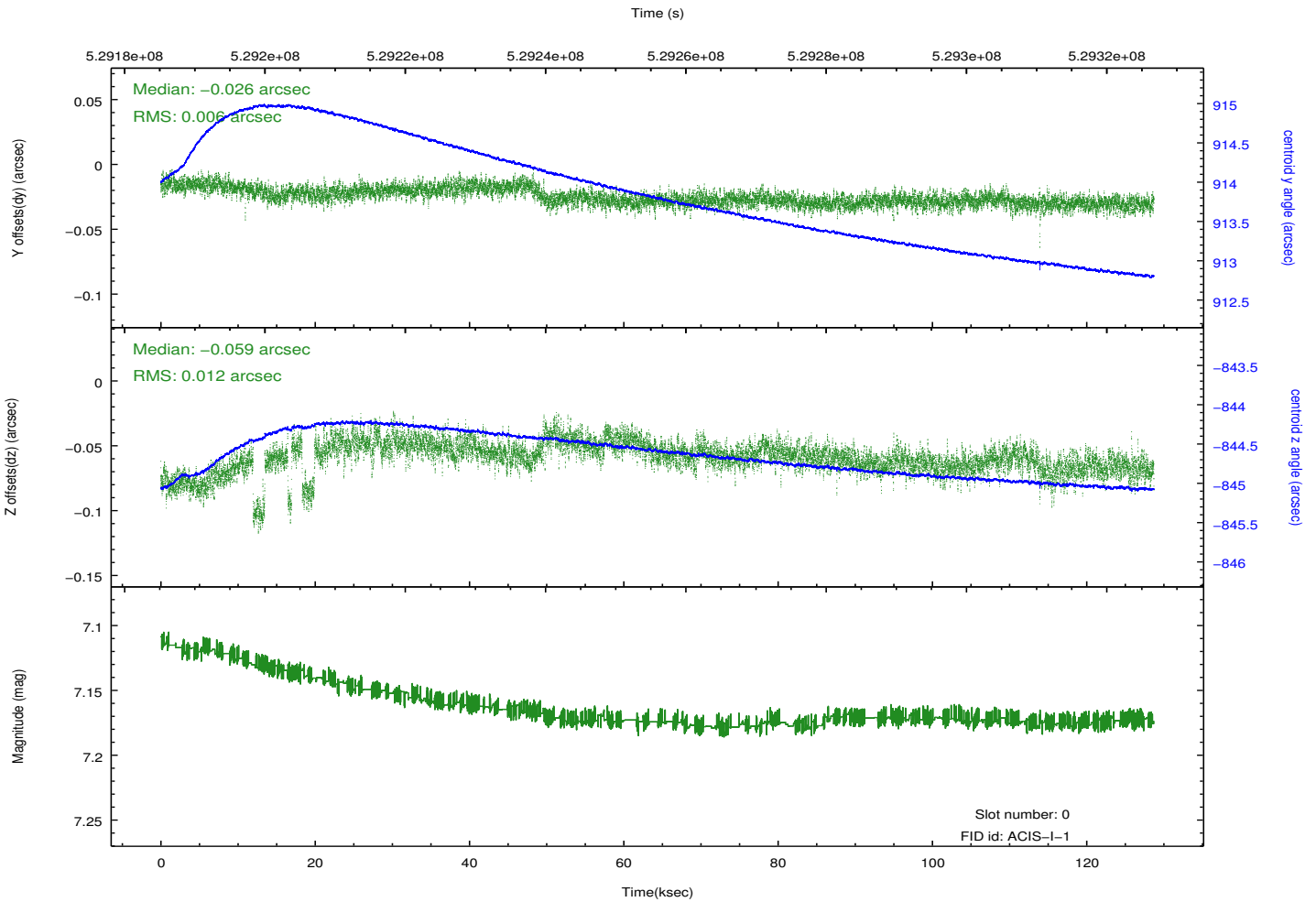
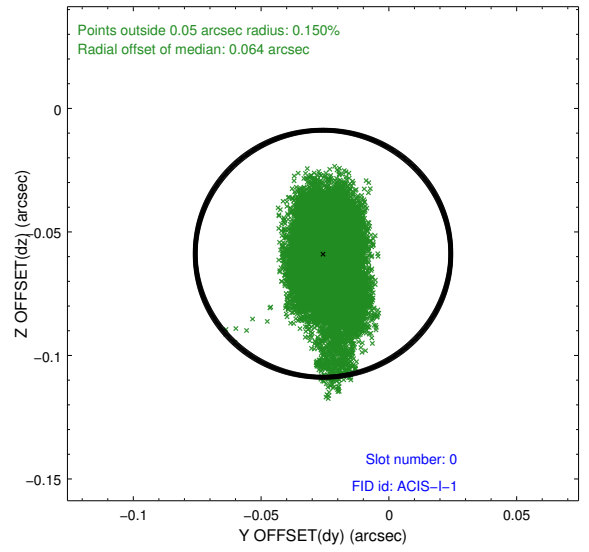
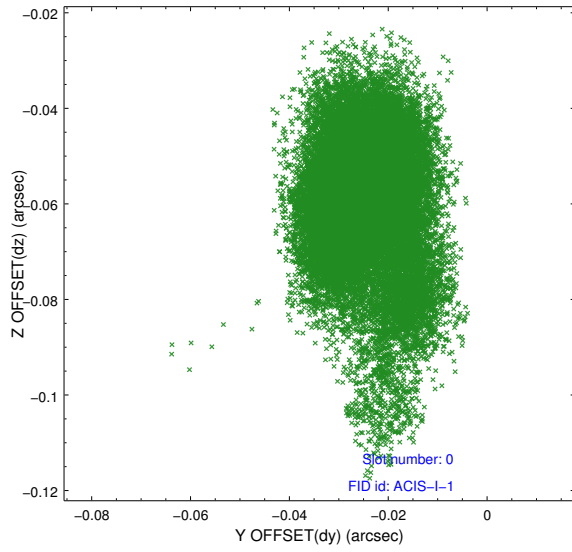


2.4.4 Slot 6

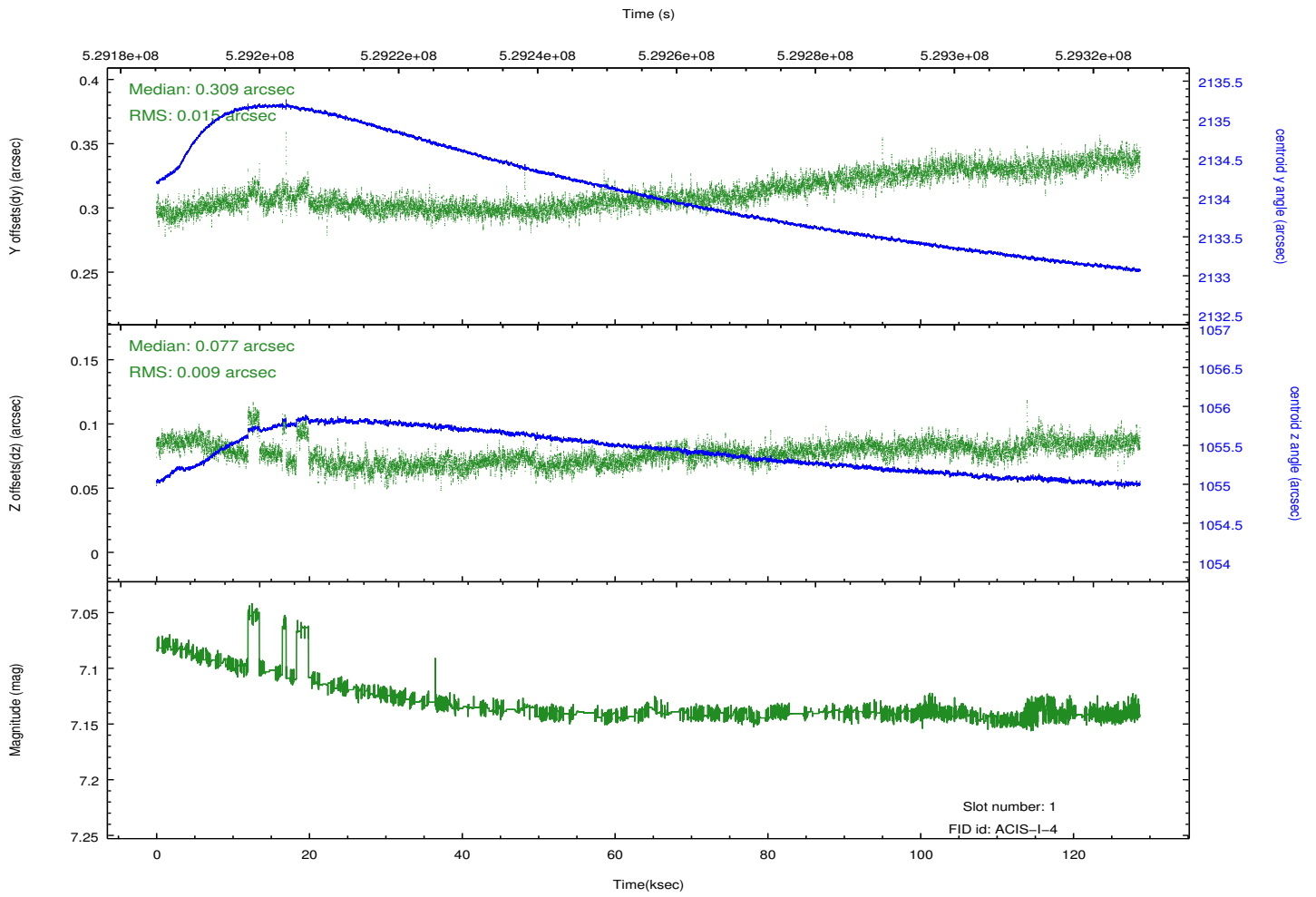
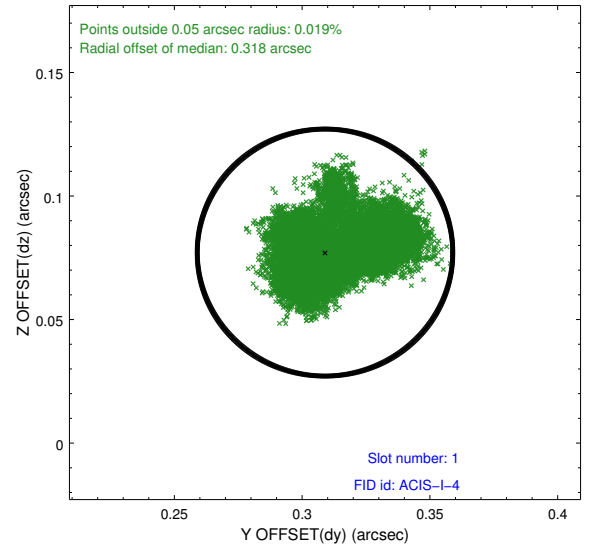
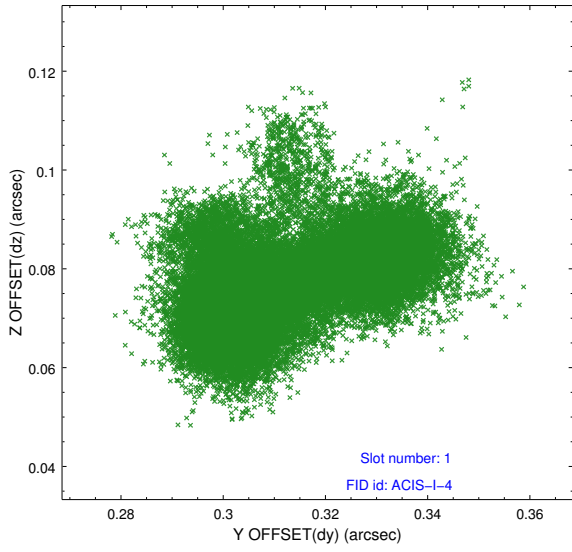


2.5 FID Slots

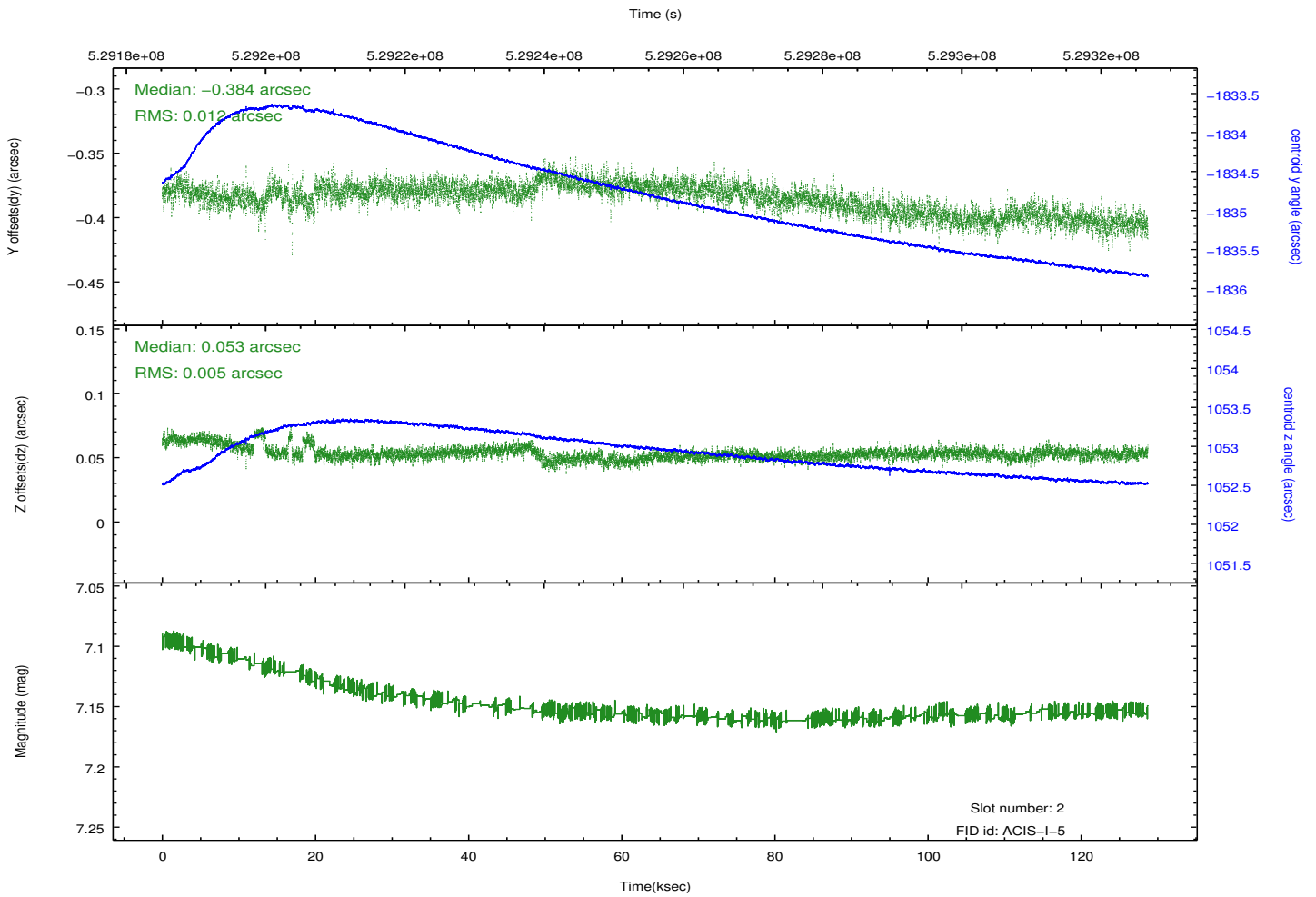
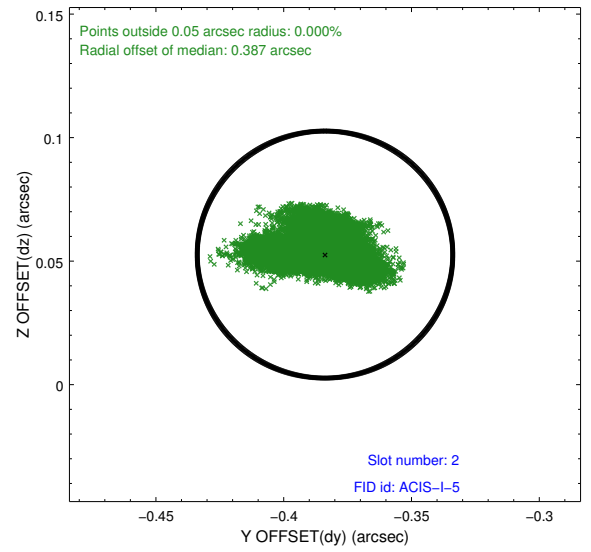
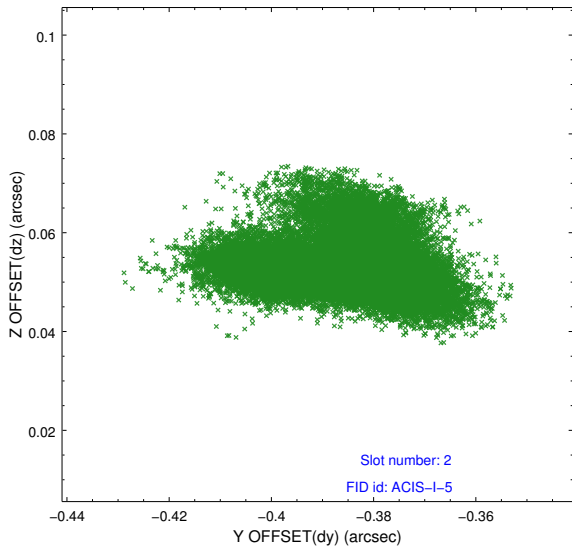
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2014.10.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	128.08806254262

A.2 Comments

The guide star in slot 7 was removed from the aspect solution due to poor data quality. The aspect solution is improved by the removal of this star from the solution.