

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 55221 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Feb 21 2012

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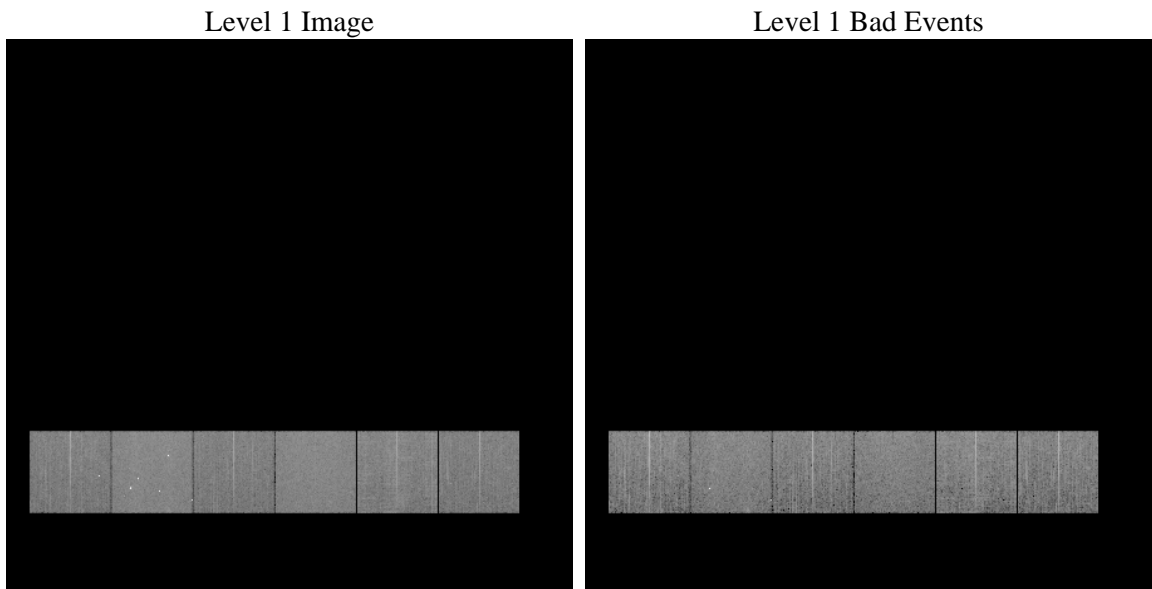
1 Front

seq_num	 	Sequence number
obs_id	55221	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	344.47145803018	Nominal RA [deg]
dec_nom	15.495562025905	Nominal Dec [deg]
roll_nom	157.44751938946	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8281.5999692082	Sum of GTIs [s]
livetime	8176.7333638173	Livetime [s]
ontime4	8281.5999692082	Sum of GTIs [s]
ontime5	8281.5999692082	Sum of GTIs [s]
ontime6	8281.5999692082	Sum of GTIs [s]
ontime7	8281.5999692082	Sum of GTIs [s]
ontime8	8281.5999692082	Sum of GTIs [s]
ontime9	8281.5999692082	Sum of GTIs [s]
l2events	326194	Number of level 2 events

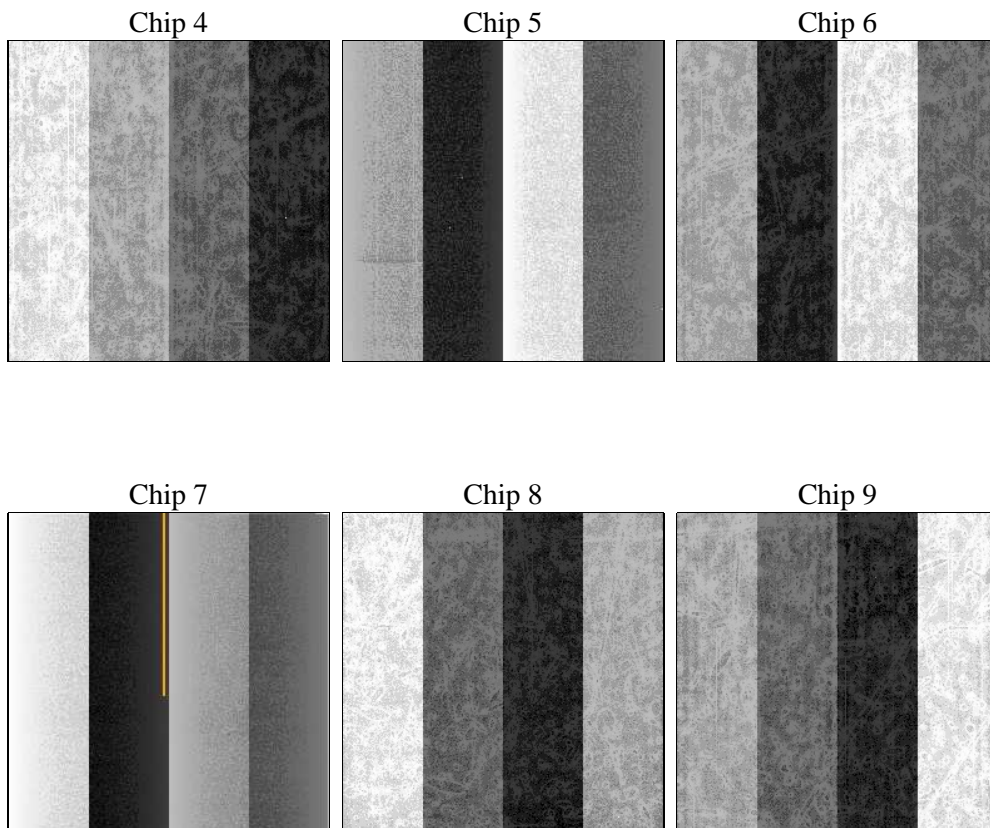
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.3	Processing system revision	ontime	8281.5999692082	Sum of GTIs [s]
caldsver	4.4.8	 	ontime4	8281.5999692082	Sum of GTIs [s]
date	2012-02-21T15:08:18	Date and time of file creation	ontime5	8281.5999692082	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	8281.5999692082	Sum of GTIs [s]
			ontime7	8281.5999692082	Sum of GTIs [s]
			ontime8	8281.5999692082	Sum of GTIs [s]
			ontime9	8281.5999692082	Sum of GTIs [s]
			l1events	733593	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	110115	149748	106654	135328	125490	106258	grade 0 events	27797	15039	24783	12474	28286	24836
rejected events	62392	63661	57994	59102	66001	58820		25%	10%	23%	9%	22%	23%
rejected %	56%	42%	54%	43%	52%	55%	grade 1 events	232	483	129	97	175	153
								0%	0%	0%	0%	0%	0%
							grade 2 events	7316	29662	9094	16841	11604	8343
								6%	19%	8%	12%	9%	7%
							grade 3 events	3364	2931	3263	6530	4385	3313
								3%	1%	3%	4%	3%	3%
							grade 4 events	3244	2910	3124	6520	4170	3189
								2%	1%	2%	4%	3%	3%
							grade 5 events	3425	7590	3603	9027	4761	4018
								3%	5%	3%	6%	3%	3%
							grade 6 events	6030	35580	8420	33892	11098	7770
								5%	23%	7%	25%	8%	7%
							grade 7 events	58707	55553	54238	49947	61011	54636
								53%	37%	50%	36%	48%	51%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	344.4714580301839	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	15.49556202590506	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	157.4475193894571	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-1.428180813131781			
[mm] SIM defocus	0.1037507710433287	0.1051558262725154			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	430658779.399447	430658778.37445			
Observation start date	2011-08-25T11:26:19	2011-08-25T11:26:18			
[s] Observation end time (MET)	430693094.351245	430693093.32625			
Observation end date	2011-08-25T20:58:14	2011-08-25T20:58:13			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.02.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2815999692082

A.2 Comments

A spatial region of the original bias map for CCD = 7 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 = 7 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 chip coords:
(663,350),(715,350),(715,512),(663,512)