

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 56127 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jul 2 2012

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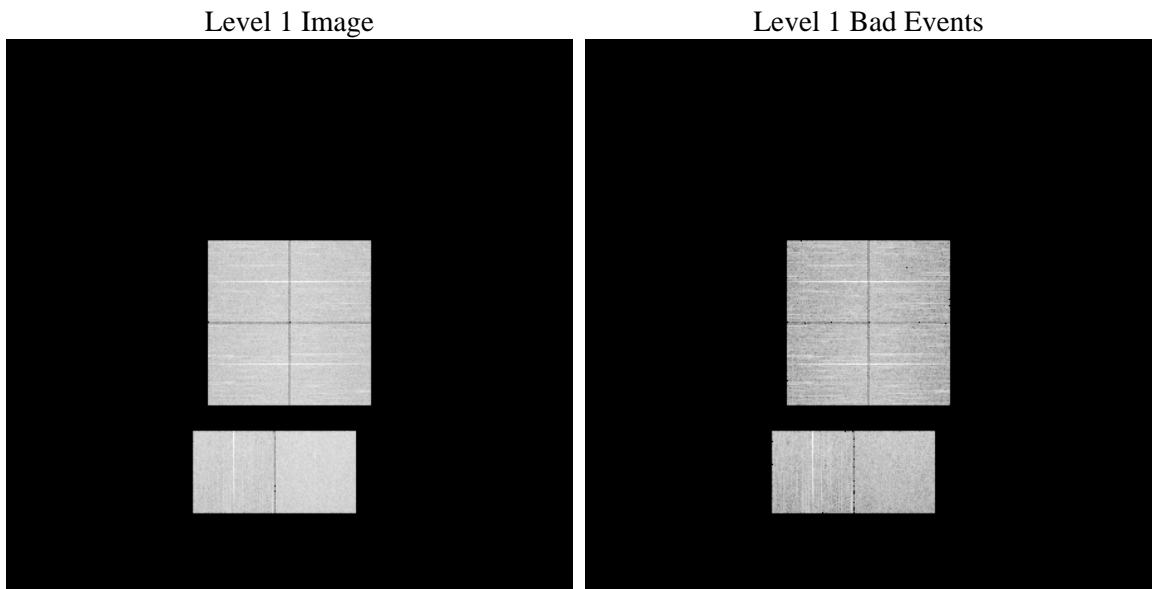
1 Front

seq_num	 	Sequence number
obs_id	56127	Observation id
title	ACIS-012367 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	313.01493319681	Nominal RA [deg]
dec_nom	-39.969773104626	Nominal Dec [deg]
roll_nom	53.447131800905	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8281.5999692082	Sum of GTIs [s]
livetime	8176.7333638173	Livetime [s]
ontime0	8281.5999692082	Sum of GTIs [s]
ontime1	8281.5999692082	Sum of GTIs [s]
ontime2	8281.5999692082	Sum of GTIs [s]
ontime3	8281.5999692082	Sum of GTIs [s]
ontime6	8281.5999692082	Sum of GTIs [s]
ontime7	8281.5999692082	Sum of GTIs [s]
l2events	383675	Number of level 2 events

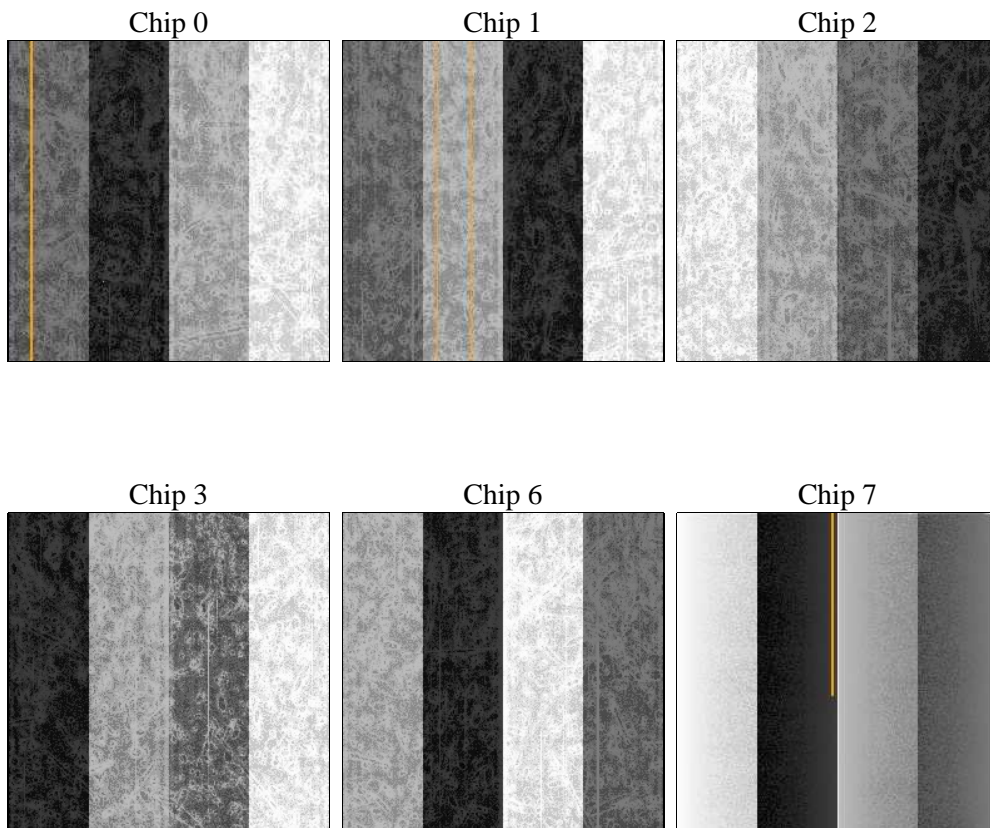
2 OBI

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	8.4.5	Processing system revision	ontime	8281.5999692082	Sum of GTIs [s]
caldsver	4.5.0	 	ontime0	8281.5999692082	Sum of GTIs [s]
date	2012-07-02T12:42:32	Date and time of file creation	ontime1	8281.5999692082	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	8281.5999692082	Sum of GTIs [s]
			ontime3	8281.5999692082	Sum of GTIs [s]
			ontime6	8281.5999692082	Sum of GTIs [s]
			ontime7	8281.5999692082	Sum of GTIs [s]
			l1events	811544	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	125144	125037	130595	131148	134175	165445	grade 0 events	32204	31765	33038	33306	33036	16971
rejected events	64197	63646	69422	69260	70680	68188		25%	25%	25%	25%	24%	10%
rejected %	51%	50%	53%	52%	52%	41%	grade 1 events	212	198	245	243	206	146
								0%	0%	0%	0%	0%	0%
							grade 2 events	11277	11600	10711	10926	11591	20884
								9%	9%	8%	8%	8%	12%
							grade 3 events	4098	4173	4272	4323	4114	8788
								3%	3%	3%	3%	3%	5%
							grade 4 events	4087	4227	4142	4235	4127	8759
								3%	3%	3%	3%	3%	5%
							grade 5 events	4065	4014	3699	4276	4263	10949
								3%	3%	2%	3%	3%	6%
							grade 6 events	9303	9654	9037	9114	10645	41897
								7%	7%	6%	6%	7%	25%
							grade 7 events	59898	59406	65451	64725	66193	57051
								47%	47%	50%	49%	49%	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	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	313.0149331968053	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-39.96977310462631	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	53.44713180090517	[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)	395244117.740298	395244116.7153			
Observation start date	2010-07-11T14:01:58	2010-07-11T14:01:56			
[s] Observation end time (MET)	395254105.340809	395254104.31581			
Observation end date	2010-07-11T16:48:25	2010-07-11T16:48:24			
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)	2012.07.10
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 = 0 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 = 0 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:
(424,1),(455,1),(455,355),(424,355)