

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 57084 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Jun 8 2012

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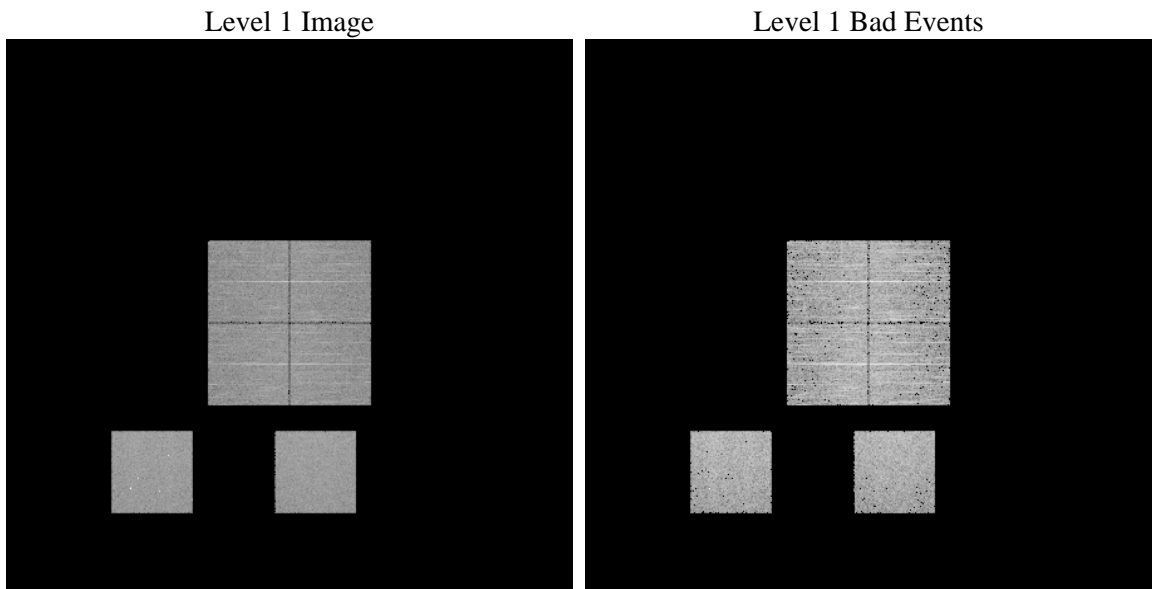
1 Front

seq_num	 	Sequence number
obs_id	57084	Observation id
title	ACIS-012357 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	220.0061302981	Nominal RA [deg]
dec_nom	-14.028097680723	Nominal Dec [deg]
roll_nom	249.0810112032	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3273.5999878645	Sum of GTIs [s]
livetime	3232.1476936929	Livetime [s]
ontime0	3273.5999878645	Sum of GTIs [s]
ontime1	3270.3591270447	Sum of GTIs [s]
ontime2	3273.5999878645	Sum of GTIs [s]
ontime3	3273.5999878645	Sum of GTIs [s]
ontime5	3273.5999878645	Sum of GTIs [s]
ontime7	3273.5999878645	Sum of GTIs [s]
l2events	207597	Number of level 2 events

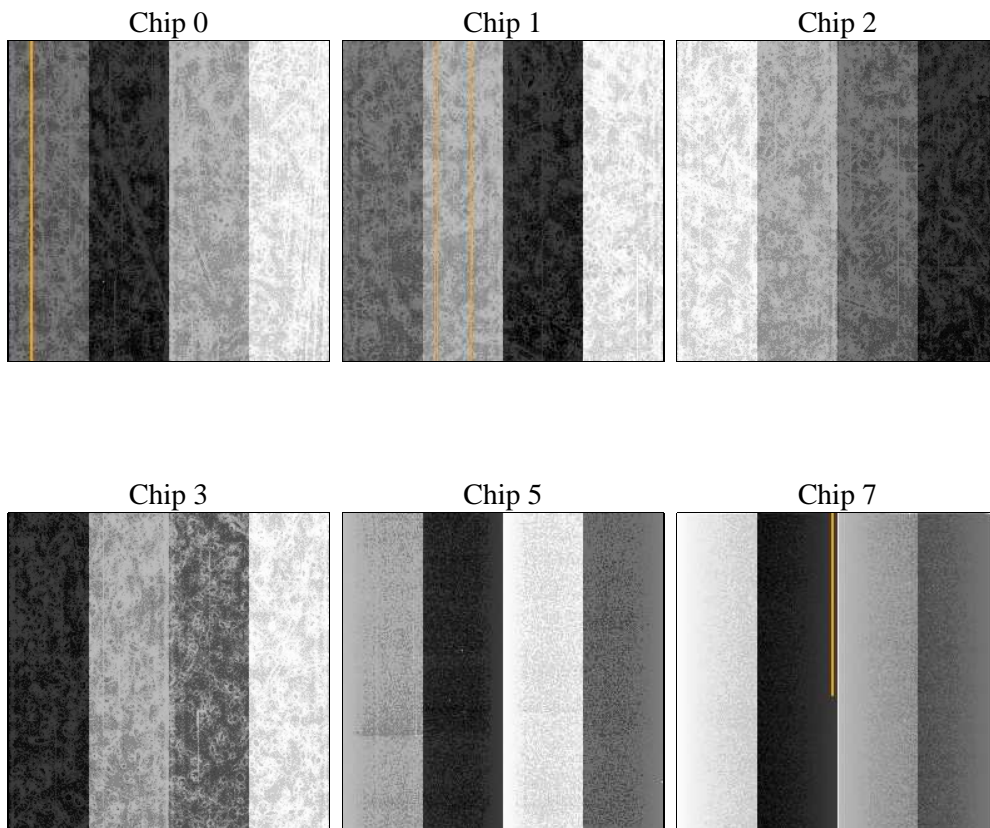
2 OBI

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	3273.5999878645	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	3273.5999878645	Sum of GTIs [s]
date	2012-06-08T06:33:01	Date and time of file creation	ontime1	3270.3591270447	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3273.5999878645	Sum of GTIs [s]
			ontime3	3273.5999878645	Sum of GTIs [s]
			ontime5	3273.5999878645	Sum of GTIs [s]
			ontime7	3273.5999878645	Sum of GTIs [s]
			l1events	400817	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	60338	61710	62724	63373	77282	75390	grade 0 events	16413	16252	16961	17090	7514	8753
rejected events	29498	30586	31786	31924	29648	28570		27%	26%	27%	26%	9%	11%
rejected %	48%	49%	50%	50%	38%	37%	grade 1 events	136	101	141	135	137	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	5467	5998	5295	5541	16669	9965
								9%	9%	8%	8%	21%	13%
							grade 3 events	2193	2058	2144	2150	2244	4269
								3%	3%	3%	3%	2%	5%
							grade 4 events	2088	2057	2092	2136	2237	4422
								3%	3%	3%	3%	2%	5%
							grade 5 events	1695	1764	1572	1757	3932	4620
								2%	2%	2%	2%	5%	6%
							grade 6 events	4711	4793	4476	4558	19014	19446
								7%	7%	7%	7%	24%	25%
							grade 7 events	27635	28687	30043	30006	25535	23856
								45%	46%	47%	47%	33%	31%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	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	220.006130298095	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-14.02809768072262	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	249.0810112031994	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	359830946.102274	359830945.07726			
Observation start date	2009-05-27T17:02:26	2009-05-27T17:02:25			
[s] Observation end time (MET)	359869801.804204	359869800.77919			
Observation end date	2009-05-28T03:50:02	2009-05-28T03:50:00			
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)	2012.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2735999878645

A.2 Comments

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 chip coords:
(972,1),(992,1),(992,1024),(972,1024)