

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 56107 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Jul 2 2012

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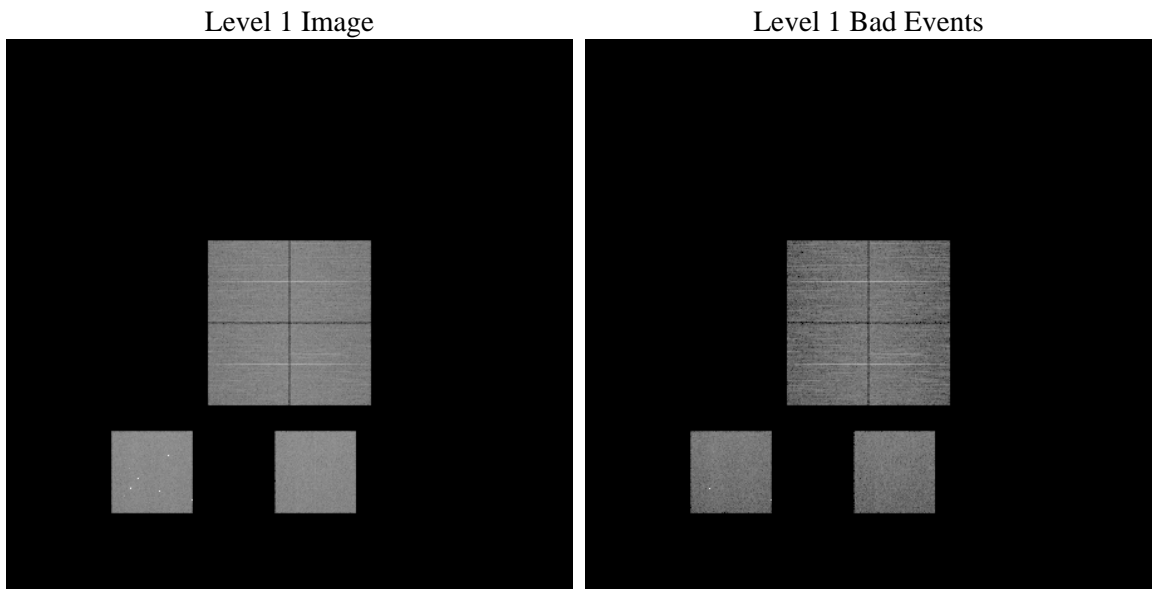
1 Front

seq_num	 	Sequence number
obs_id	56107	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	334.98719254952	Nominal RA [deg]
dec_nom	-27.973571368703	Nominal Dec [deg]
roll_nom	80.296374210039	Nominal Roll [deg]
revision	4	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]
ontime5	8281.5999692082	Sum of GTIs [s]
ontime7	8281.5999692082	Sum of GTIs [s]
l2events	413123	Number of level 2 events

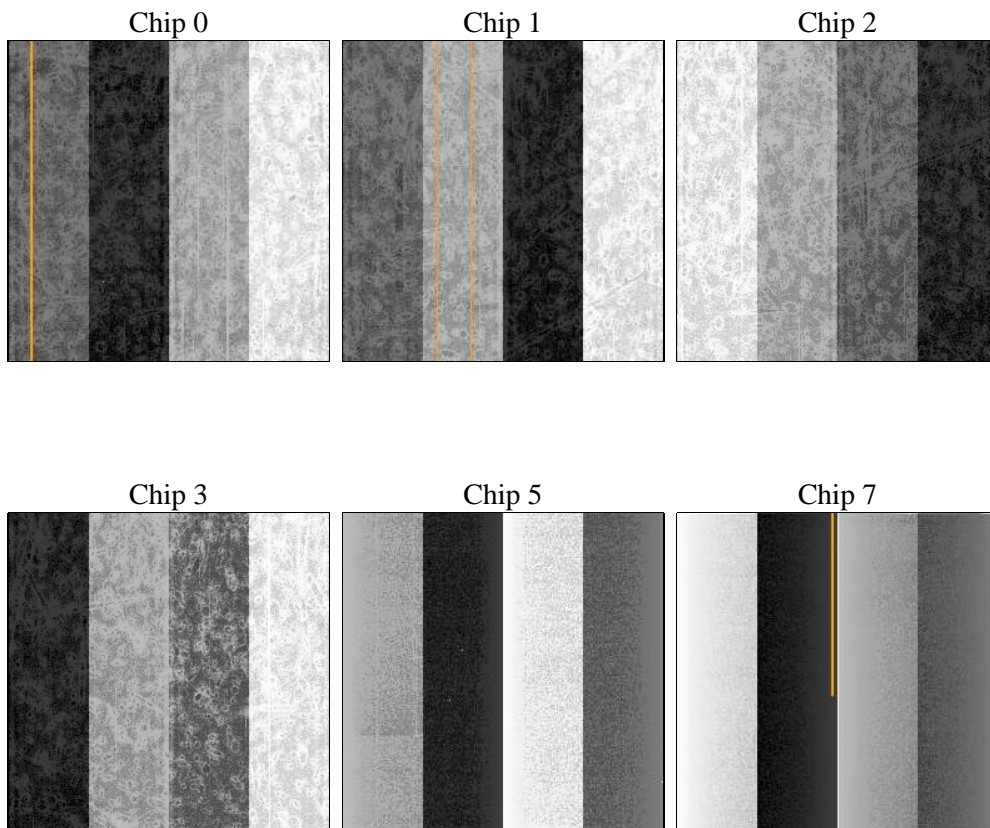
2 OBI

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	2012-07-02T12:37:02	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]
			ontime5	8281.5999692082	Sum of GTIs [s]
			ontime7	8281.5999692082	Sum of GTIs [s]
			l1events	838210	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	122221	124234	124888	128503	176680	161684	grade 0 events	31903	31178	32724	33047	18592	16648
rejected events	61665	63678	64458	67307	71647	66548		26%	25%	26%	25%	10%	10%
rejected %	50%	51%	51%	52%	40%	41%	grade 1 events	214	177	253	243	218	130
								0%	0%	0%	0%	0%	0%
							grade 2 events	11240	11722	10425	10722	35097	20894
								9%	9%	8%	8%	19%	12%
							grade 3 events	4028	4047	4302	4281	4004	8532
								3%	3%	3%	3%	2%	5%
							grade 4 events	3990	4013	4126	4256	3786	8400
								3%	3%	3%	3%	2%	5%
							grade 5 events	3669	3884	3659	4141	9164	10415
								3%	3%	2%	3%	5%	6%
							grade 6 events	9395	9596	8853	8890	43554	40662
								7%	7%	7%	6%	24%	25%
							grade 7 events	57782	59617	60546	62923	62265	56003
								47%	47%	48%	48%	35%	34%

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	334.9871925495231	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-27.97357136870299	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	80.29637421003947	[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)	396420901.850413	396420900.82543			
Observation start date	2010-07-25T04:55:02	2010-07-25T04:55:00			
[s] Observation end time (MET)	396434282.201097	396434281.17611			
Observation end date	2010-07-25T08:38:02	2010-07-25T08:38:01			
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 = 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:
(167,221),(194,221),(194,635),(167,648)