

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 56123 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 30 2012

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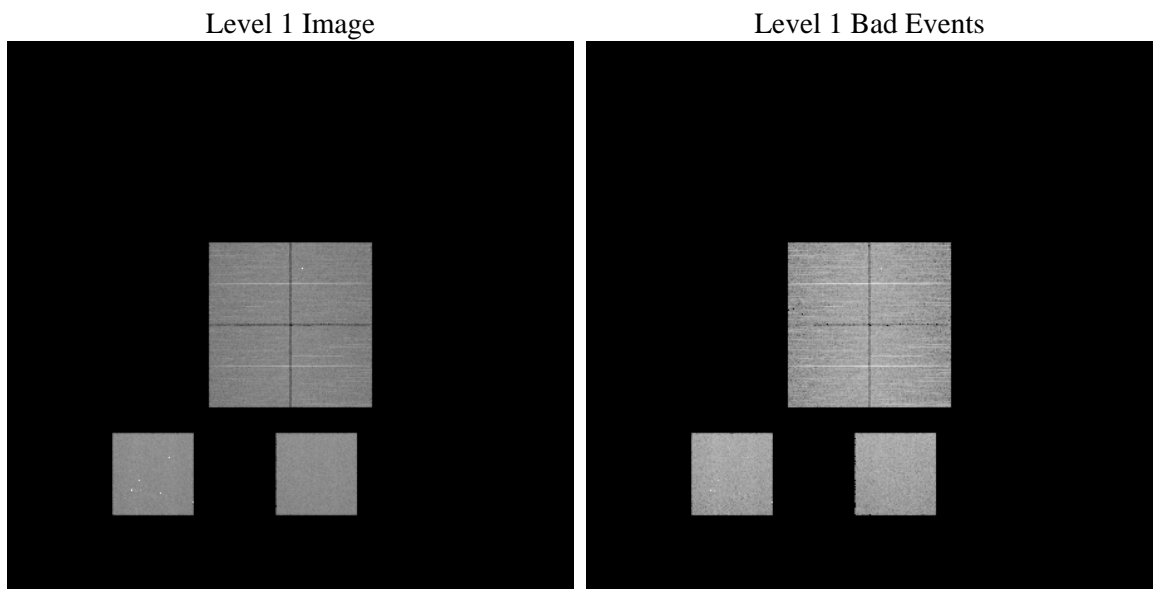
1 Front

seq_num	 	Sequence number
obs_id	56123	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	273.40827032435	Nominal RA [deg]
dec_nom	-11.13204743258	Nominal Dec [deg]
roll_nom	235.53304750877	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8057.5999700427	Sum of GTIs [s]
livetime	7955.5697875178	Livetime [s]
ontime0	8057.5999700427	Sum of GTIs [s]
ontime1	8057.5794743299	Sum of GTIs [s]
ontime2	8057.5384343266	Sum of GTIs [s]
ontime3	8057.5999700427	Sum of GTIs [s]
ontime5	8057.4973943233	Sum of GTIs [s]
ontime7	8057.5999700427	Sum of GTIs [s]
l2events	401944	Number of level 2 events

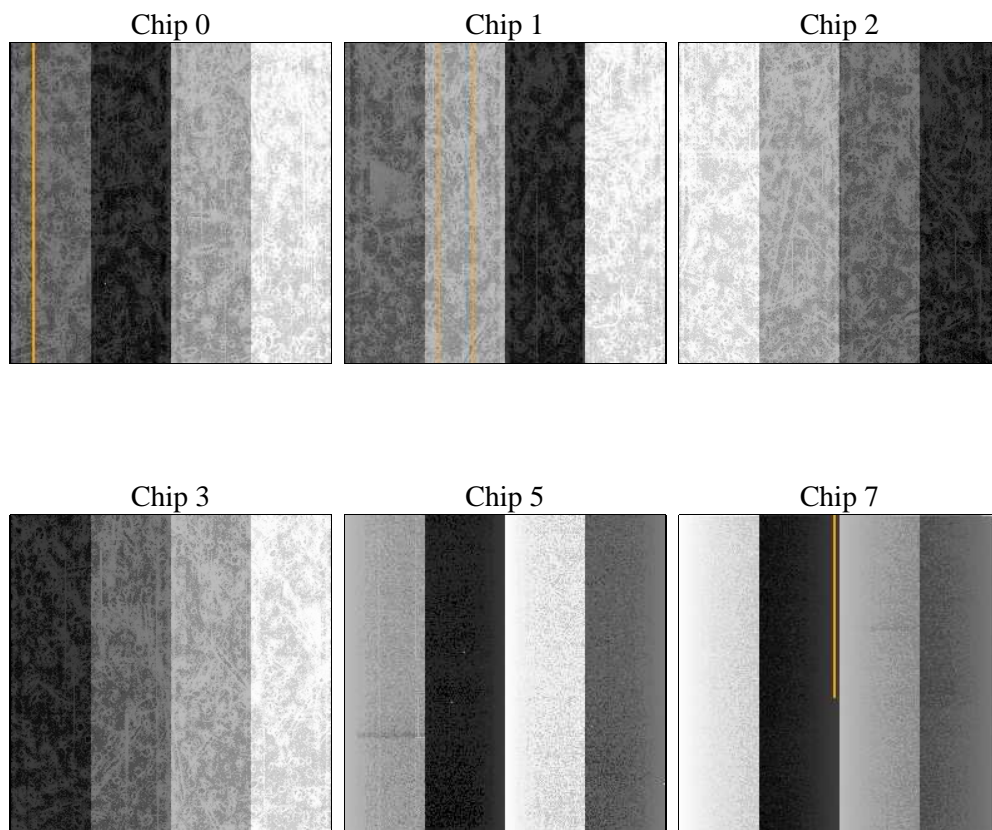
2 OBI

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	8057.5999700427	Sum of GTIs [s]
caldsver	4.5.0	 	ontime0	8057.5999700427	Sum of GTIs [s]
date	2012-06-30T03:46:46	Date and time of file creation	ontime1	8057.5794743299	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8057.5384343266	Sum of GTIs [s]
			ontime3	8057.5999700427	Sum of GTIs [s]
			ontime5	8057.4973943233	Sum of GTIs [s]
			ontime7	8057.5999700427	Sum of GTIs [s]
			l1events	851416	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	126482	128054	124974	132418	175670	163818	grade 0 events	32257	30949	32633	33314	19053	16681
rejected events	67608	66658	66918	73001	73505	70442		25%	24%	26%	25%	10%	10%
rejected %	53%	52%	53%	55%	41%	43%	grade 1 events	211	179	250	263	800	129
								0%	0%	0%	0%	0%	0%
							grade 2 events	11016	14519	10165	10561	36206	20948
								8%	11%	8%	7%	20%	12%
							grade 3 events	4013	3938	4014	4110	3792	8426
								3%	3%	3%	3%	2%	5%
							grade 4 events	4054	3963	4133	4280	3765	8527
								3%	3%	3%	3%	2%	5%
							grade 5 events	3760	3843	3690	4245	8480	10679
								2%	3%	2%	3%	4%	6%
							grade 6 events	9202	9728	8698	8828	42204	41269
								7%	7%	6%	6%	24%	25%
							grade 7 events	61969	60935	61391	66817	61370	57159
								48%	47%	49%	50%	34%	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	OVERRIDE	OVERRIDE
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	273.4082703243546	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-11.13204743258048	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	235.533047508766	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
[mm] SIM translation stage pos	250.4660330802	250.4660330802			
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584			
[s] Observation start time (MET)	395473080.202	395473080.202			
Observation start date	2010-07-14T05:38:00	2010-07-14T05:38:00			
[s] Observation end time (MET)	395482124.180682	395482124.180682			
Observation end date	2010-07-14T08:08:44	2010-07-14T08:08:44			
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)	2012.07.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0575999700427

A.2 Comments

The bias map for CCD_ID = 1 suffers from anomalously high bias values in an 'exacto-knife'-shaped area of the bias file. Pixels in the event data that have been bias-corrected by one of the 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. For this obsid, there is no acceptable bias file closely matched in time and focal plane temperature, so no attempt has been made to correct the bias values in this region. The bias values on CCD_ID = 1 that are elevated are only slightly high (2-4 adu).