

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 62827 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Apr 19 2013

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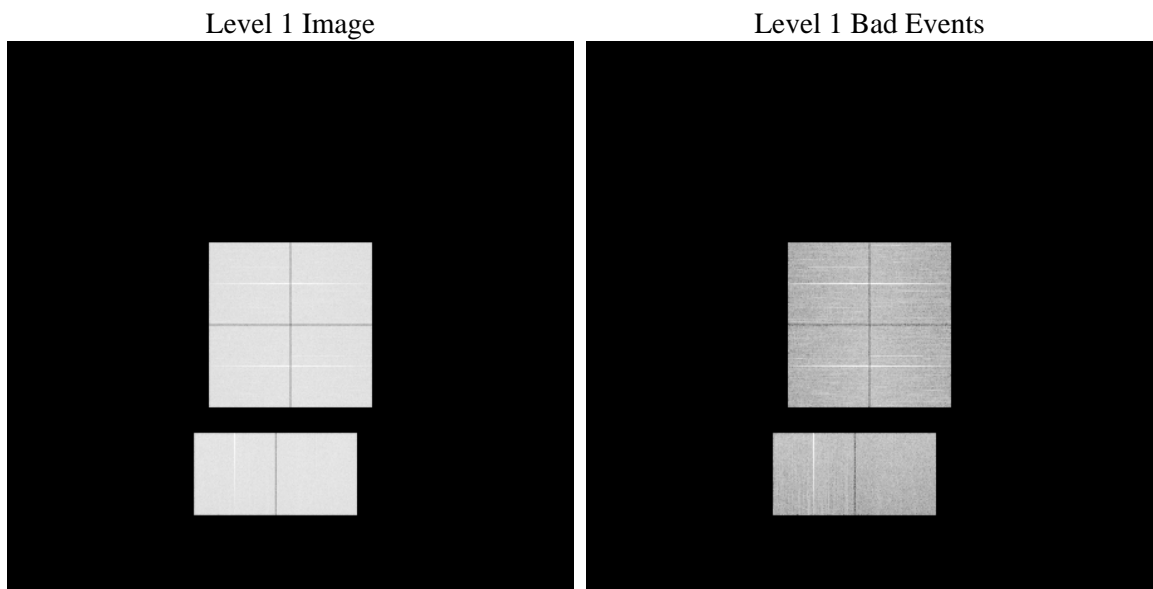
1 Front

seq_num	 	Sequence number
obs_id	62827	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtycle	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	321.52538204904	Nominal RA [deg]
dec_nom	-18.515502383377	Nominal Dec [deg]
roll_nom	294.37202547867	Nominal Roll [deg]
revision	4	Processing version of data
ontime	24645.465586662	Sum of GTIs [s]
livetime	24333.389861686	Livetime [s]
ontime0	24645.424546659	Sum of GTIs [s]
ontime1	24645.383506656	Sum of GTIs [s]
ontime2	24645.342466652	Sum of GTIs [s]
ontime3	24645.506626666	Sum of GTIs [s]
ontime6	24645.301426679	Sum of GTIs [s]
ontime7	24645.465586662	Sum of GTIs [s]
l2events	3224824	Number of level 2 events

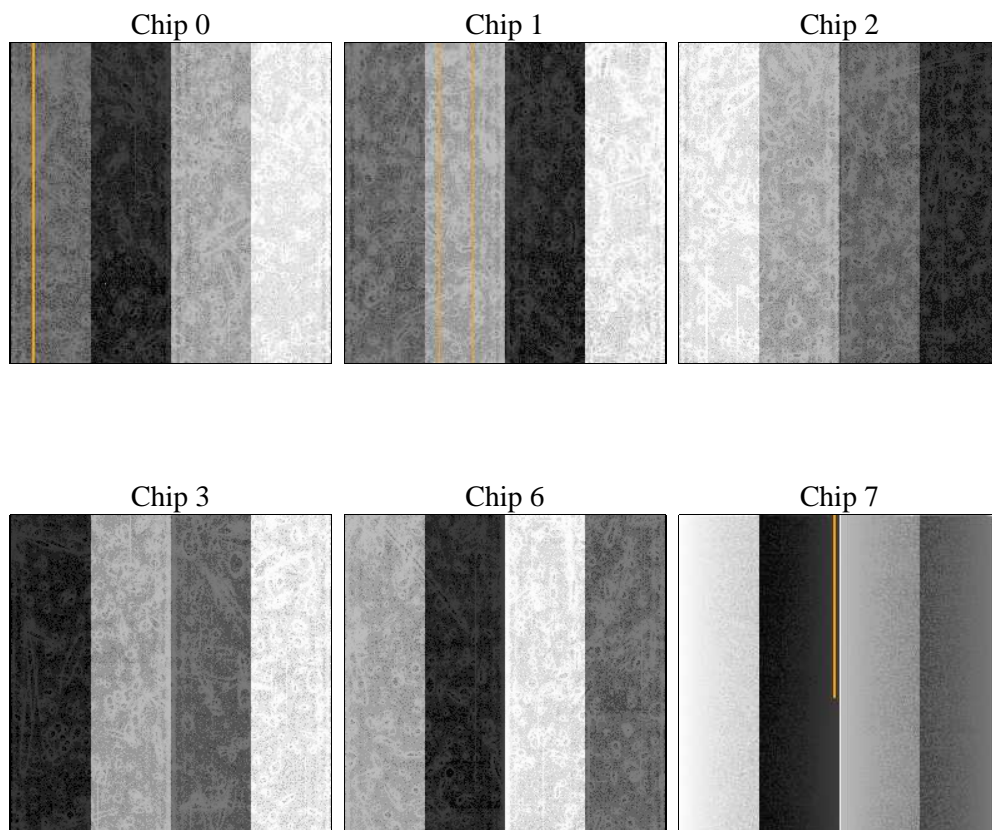
2 OBI

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	8.5.1.1	Processing system revision	ontime	24645.465586662	Sum of GTIs [s]
caldsver	4.5.6	 	ontime0	24645.424546659	Sum of GTIs [s]
date	2013-04-19T20:09:39	Date and time of file creation	ontime1	24645.383506656	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	24645.342466652	Sum of GTIs [s]
			ontime3	24645.506626666	Sum of GTIs [s]
			ontime6	24645.301426679	Sum of GTIs [s]
			ontime7	24645.465586662	Sum of GTIs [s]
			l1events	4150919	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	673259	675501	686026	691832	710345	713956	grade 0 events	302149	301336	311975	313317	313326	143808
rejected events	124753	123690	129152	134180	133888	113450		44%	44%	45%	45%	44%	20%
rejected %	18%	18%	18%	19%	18%	15%	grade 1 events	1505	1250	1602	1519	1315	456
								0%	0%	0%	0%	0%	0%
							grade 2 events	95612	98400	93856	95345	99282	132225
								14%	14%	13%	13%	13%	18%
							grade 3 events	35231	35297	36418	36001	35721	59458
								5%	5%	5%	5%	5%	8%
							grade 4 events	35112	35145	36231	36310	35997	59309
								5%	5%	5%	5%	5%	8%
							grade 5 events	8036	8316	7653	8758	8686	19981
								1%	1%	1%	1%	1%	2%
							grade 6 events	80474	81700	78476	76756	92215	205791
								11%	12%	11%	11%	12%	28%
							grade 7 events	115140	114057	119815	123826	123803	92928
								17%	16%	17%	17%	17%	13%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	321.5253820490436
[deg] Pointing Dec	0	-18.51550238337733
[deg] Pointing Roll	0.0	294.3720254786712
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.7524282956875696
[mm] SIM translation stage pos	-233.592463	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	242948471.289631	242948470.26459
Observation start date	2005-09-12T21:41:11	2005-09-12T21:41:10
[s] Observation end time (MET)	242975246.340862	242975245.31582
Observation end date	2005-09-13T05:07:26	2005-09-13T05:07:25
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.04.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	24.645465586662

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:
(979,1),(1023,1),(1023,1024),(979,1024)