

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 59268 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Mar 24 2012

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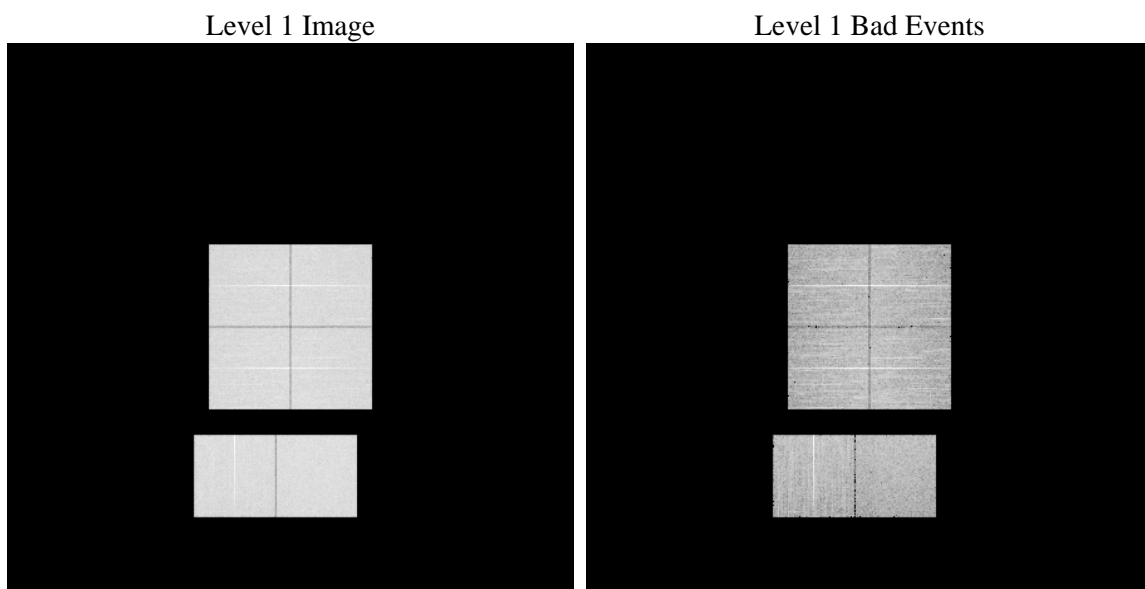
1 Front

seq_num	 	Sequence number
obs_id	59268	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	73.957857908723	Nominal RA [deg]
dec_nom	49.986309712902	Nominal Dec [deg]
roll_nom	171.12998434608	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8255.999969244	Sum of GTIs [s]
livetime	8151.4575264671	Livetime [s]
ontime0	8255.999969244	Sum of GTIs [s]
ontime1	8255.999969244	Sum of GTIs [s]
ontime2	8255.999969244	Sum of GTIs [s]
ontime3	8255.999969244	Sum of GTIs [s]
ontime6	8255.999969244	Sum of GTIs [s]
ontime7	8255.999969244	Sum of GTIs [s]
l2events	1023063	Number of level 2 events

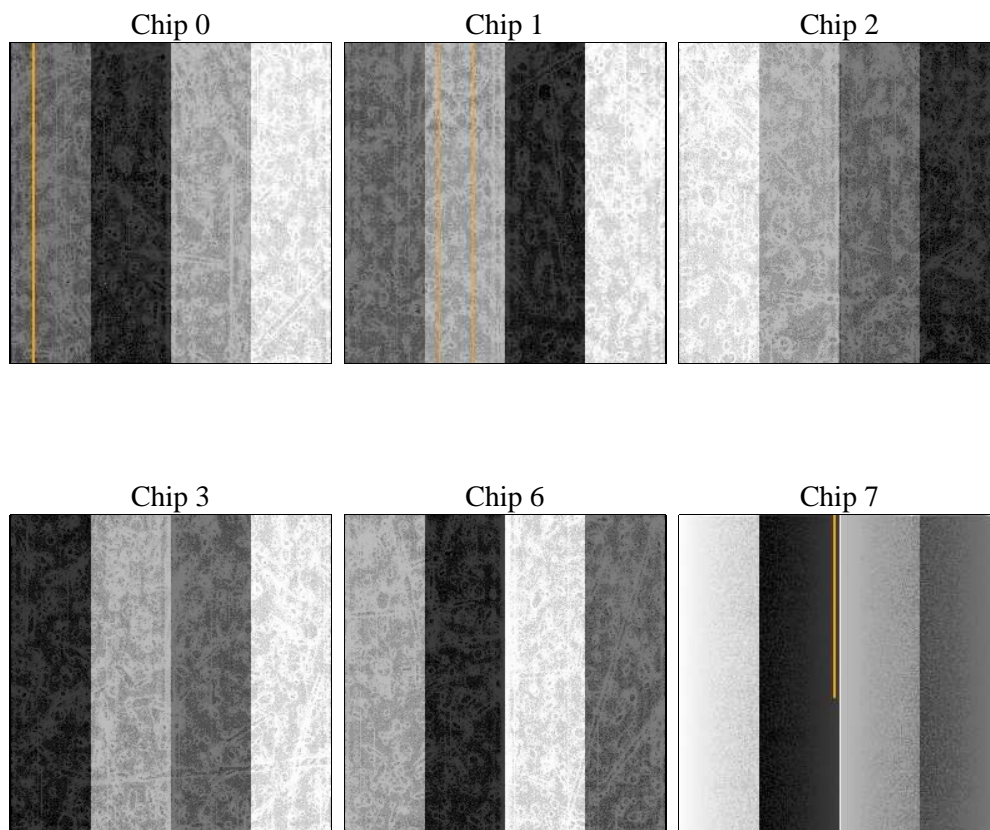
2 OBI

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	8.4.3.1	Processing system revision	ontime	8255.999969244	Sum of GTIs [s]
caldsver	4.4.8	 	ontime0	8255.999969244	Sum of GTIs [s]
date	2012-03-24T19:07:27	Date and time of file creation	ontime1	8255.999969244	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	8255.999969244	Sum of GTIs [s]
			ontime3	8255.999969244	Sum of GTIs [s]
			ontime6	8255.999969244	Sum of GTIs [s]
			ontime7	8255.999969244	Sum of GTIs [s]
			l1events	1446043	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	231643	234174	241274	239536	245186	254230	grade 0 events	94827	94916	97658	97577	97796	45916
rejected events	59018	60170	66007	65526	63968	54548		40%	40%	40%	40%	39%	18%
rejected %	25%	25%	27%	27%	26%	21%	grade 1 events	574	502	629	627	499	162
								0%	0%	0%	0%	0%	0%
							grade 2 events	30279	31063	29878	29523	31523	43490
								13%	13%	12%	12%	12%	17%
							grade 3 events	11433	11204	11658	11306	11411	19823
								4%	4%	4%	4%	4%	7%
							grade 4 events	11221	11396	11659	11584	11429	19598
								4%	4%	4%	4%	4%	7%
							grade 5 events	3585	3718	3522	3904	3880	9176
								1%	1%	1%	1%	1%	3%
							grade 6 events	25343	25921	24902	24493	29599	71411
								10%	11%	10%	10%	12%	28%
							grade 7 events	54381	55454	61368	60522	59049	44654
								23%	23%	25%	25%	24%	17%

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	73.95785790872254
[deg] Pointing Dec	0	49.98630971290187
[deg] Pointing Roll	0.0	171.1299843460819
[mm] SIM focus pos	-0.782348	-0.6828225247311905
[mm] SIM defocus	0	0.8505141146731063
[mm] SIM translation stage pos	-233.592463	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	249967118.113063	249967117.08806
Observation start date	2005-12-03T03:18:38	2005-12-03T03:18:37
[s] Observation end time (MET)	249990504.514145	249990503.48914
Observation end date	2005-12-03T09:48:25	2005-12-03T09:48:23
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)	2012.03.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.255999969244

A.2 Comments

A spatial region of the original bias map for CCD = 3 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 = 3 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:
(845,1),(886,1),(886,660),(845,640)