

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 60675 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 26 2013

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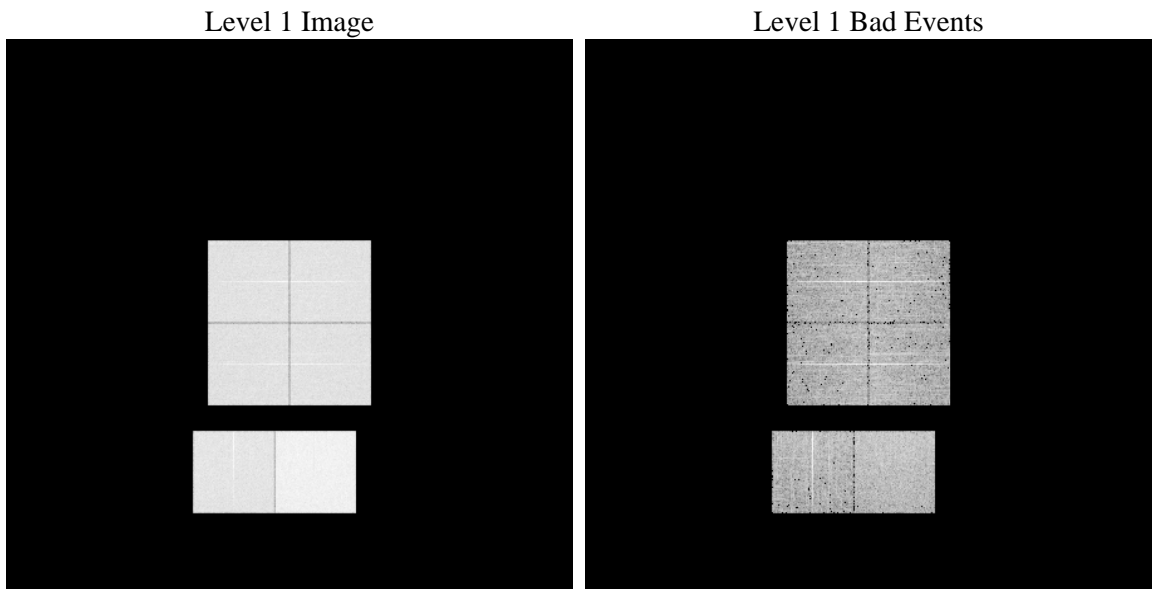
1 Front

seq_num	 	Sequence number
obs_id	60675	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtycycle	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	278.97327522664	Nominal RA [deg]
dec_nom	-12.01166028522	Nominal Dec [deg]
roll_nom	171.15095238272	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8467.1138426363	Sum of GTIs [s]
livetime	8359.898148877	Livetime [s]
ontime0	5182.3942674994	Sum of GTIs [s]
ontime1	5245.5059465468	Sum of GTIs [s]
ontime2	4942.5607349575	Sum of GTIs [s]
ontime3	5007.3813449442	Sum of GTIs [s]
ontime6	5464.3595658541	Sum of GTIs [s]
ontime7	8467.1138426363	Sum of GTIs [s]
l2events	1280845	Number of level 2 events

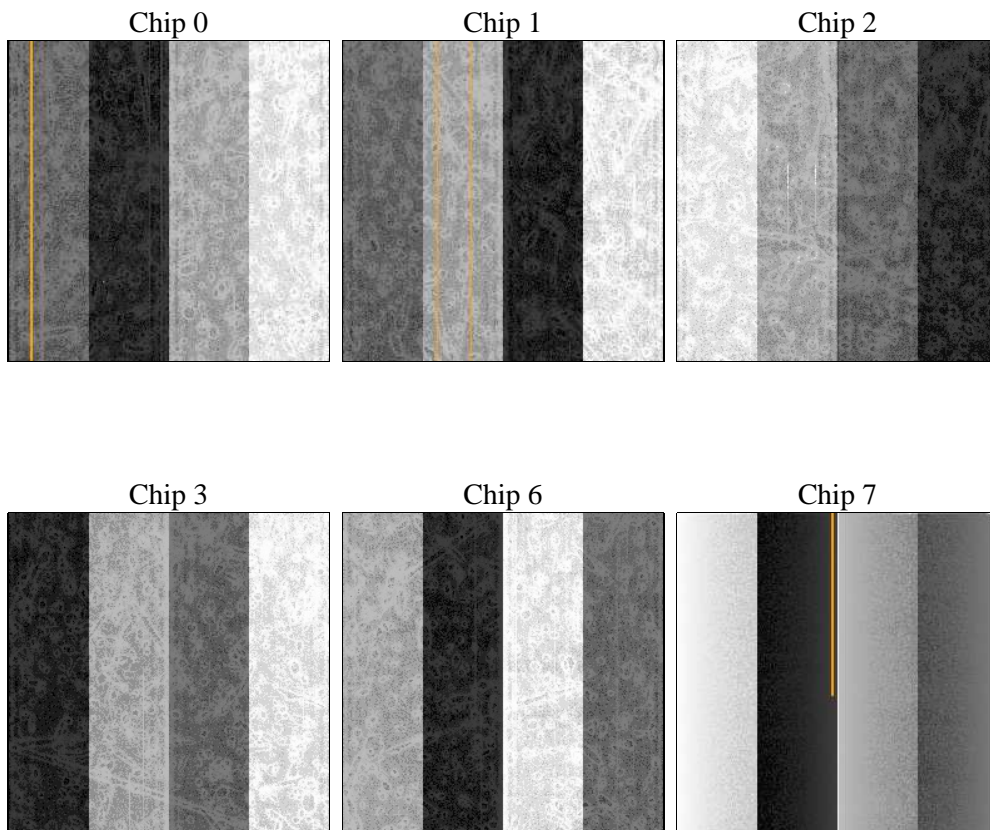
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5.1.1	Processing system revision	ontime	8467.1138426363	Sum of GTIs [s]
caldbver	4.5.6	 	ontime0	5182.3942674994	Sum of GTIs [s]
date	2013-03-26T21:53:33	Date and time of file creation	ontime1	5245.5059465468	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	4942.5607349575	Sum of GTIs [s]
			ontime3	5007.3813449442	Sum of GTIs [s]
			ontime6	5464.3595658541	Sum of GTIs [s]
			ontime7	8467.1138426363	Sum of GTIs [s]
			l1events	1540667	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	228170	232054	221025	226067	252302	381049	grade 0 events	108961	110345	107024	108770	118958	84757
rejected events	30346	31823	30066	32833	33715	41811		47%	47%	48%	48%	47%	22%
rejected %	13%	13%	13%	14%	13%	10%	grade 1 events	508	487	582	612	560	204
								0%	0%	0%	0%	0%	0%
							grade 2 events	34584	35442	32444	32623	37643	74728
								15%	15%	14%	14%	14%	19%
							grade 3 events	12835	12811	12353	12544	13388	34309
								5%	5%	5%	5%	5%	9%
							grade 4 events	12695	12747	12325	12615	13597	34144
								5%	5%	5%	5%	5%	8%
							grade 5 events	2153	2218	1996	2233	2479	7972
								0%	0%	0%	0%	0%	2%
							grade 6 events	28749	29019	26813	26682	35001	111448
								12%	12%	12%	11%	13%	29%
							grade 7 events	27685	28985	27488	29988	30676	33487
								12%	12%	12%	13%	12%	8%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	278.9732752266385	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-12.01166028522	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	171.1509523827238			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	173202298.092971	173202297.06826			
Observation start date	2003-06-28T15:44:58	2003-06-28T15:44:57			
[s] Observation end time (MET)	173223607.843877	173223606.81917			
Observation end date	2003-06-28T21:40:08	2003-06-28T21:40:06			
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)	2013.03.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4671138426363

A.2 Comments

A spatial region of the original bias map for CCD = 2 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 = 2 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:
(400,438), (449,438), (449,1024), (400,1024)