

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58768 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : May 3 2012

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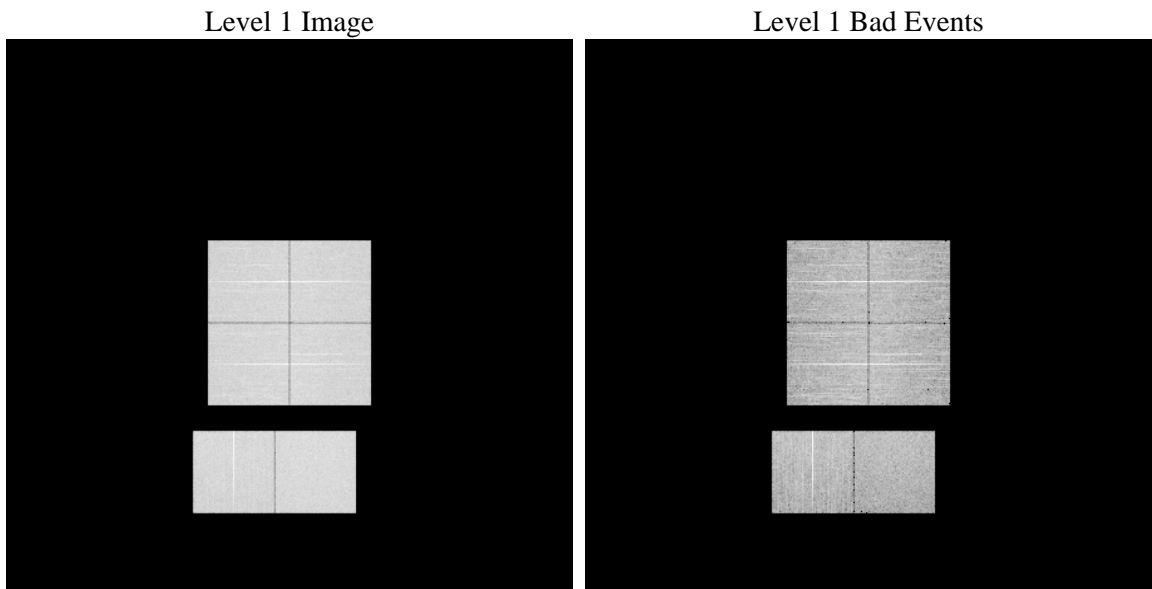
1 Front

seq_num	 	Sequence number
obs_id	58768	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	345.02431261751	Nominal RA [deg]
dec_nom	-18.907036112607	Nominal Dec [deg]
roll_nom	316.14919031997	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7795.1999710202	Sum of GTIs [s]
livetime	7696.4924552813	Livetime [s]
ontime0	7795.1999710202	Sum of GTIs [s]
ontime1	7795.1999710202	Sum of GTIs [s]
ontime2	7795.1999710202	Sum of GTIs [s]
ontime3	7795.1999710202	Sum of GTIs [s]
ontime6	7795.1999710202	Sum of GTIs [s]
ontime7	7795.1999710202	Sum of GTIs [s]
l2events	831496	Number of level 2 events

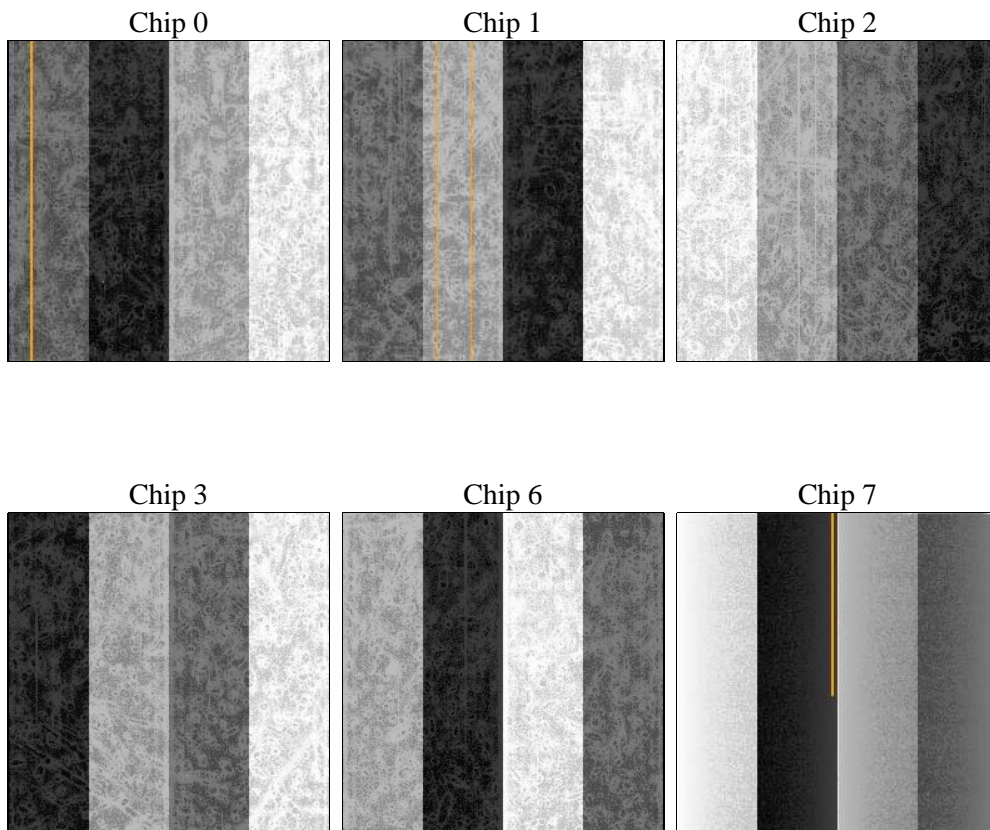
2 OBI

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	8.4.4	Processing system revision	ontime	7795.1999710202	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	7795.1999710202	Sum of GTIs [s]
date	2012-05-03T15:25:22	Date and time of file creation	ontime1	7795.1999710202	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	7795.1999710202	Sum of GTIs [s]
			ontime3	7795.1999710202	Sum of GTIs [s]
			ontime6	7795.1999710202	Sum of GTIs [s]
			ontime7	7795.1999710202	Sum of GTIs [s]
			l1events	1270074	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	204819	202182	209141	210474	215236	228222	grade 0 events	75354	74478	77767	78638	78165	38112
rejected events	66306	63022	69491	68981	69268	57179		36%	36%	37%	37%	36%	16%
rejected %	32%	31%	33%	32%	32%	25%	grade 1 events	532	454	598	573	469	172
								0%	0%	0%	0%	0%	0%
							grade 2 events	24324	25575	23692	24300	25507	37140
								11%	12%	11%	11%	11%	16%
							grade 3 events	8958	9041	9130	9258	9078	16686
								4%	4%	4%	4%	4%	7%
							grade 4 events	9030	9013	9108	9440	9129	16401
								4%	4%	4%	4%	4%	7%
							grade 5 events	3607	3818	3432	4009	4070	9814
								1%	1%	1%	1%	1%	4%
							grade 6 events	20847	21053	19953	19857	24089	62704
								10%	10%	9%	9%	11%	27%
							grade 7 events	62167	58750	65461	64399	64729	47193
								30%	29%	31%	30%	30%	20%

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	345.0243126175138	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-18.90703611260669	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	316.149190319967			
[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)	275743638.915342	275743637.89034			
Observation start date	2006-09-27T11:27:19	2006-09-27T11:27:17			
[s] Observation end time (MET)	275763111.866258	275763110.84126			
Observation end date	2006-09-27T16:51:52	2006-09-27T16:51:50			
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)	2012.05.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7951999710202

A.2 Comments

A spatial region of the original bias map for CCD = 0 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 = 0 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:
(759,1), (798,1), (798,445), (759,464)