

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58784 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : May 9 2012

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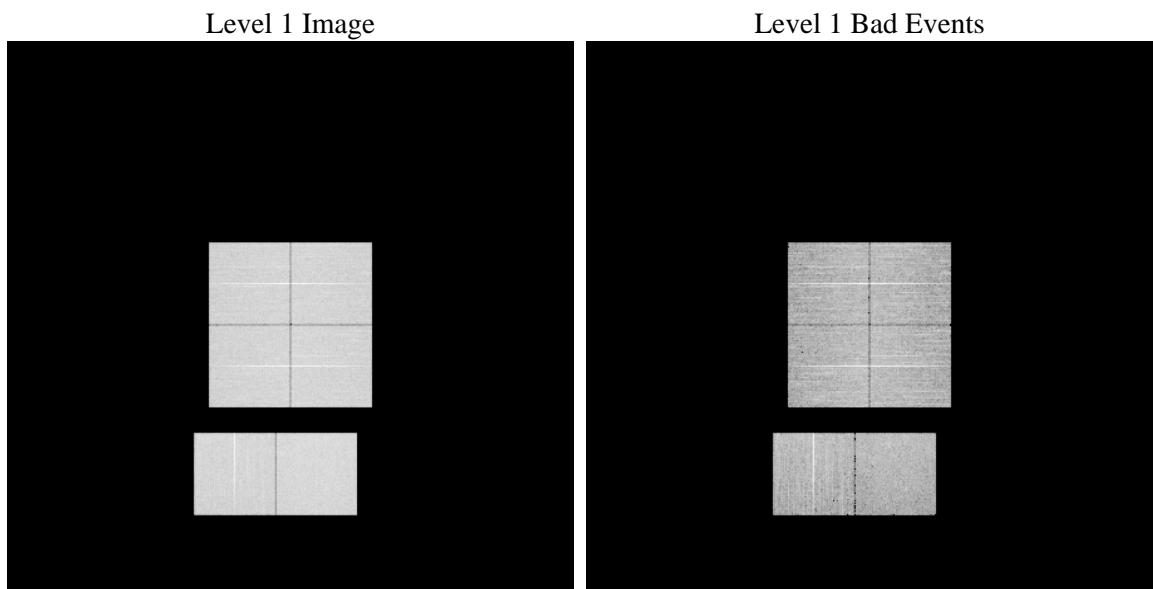
1 Front

seq_num	 	Sequence number
obs_id	58784	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	337.21464205844	Nominal RA [deg]
dec_nom	-9.2192318296313	Nominal Dec [deg]
roll_nom	290.66843480443	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	7791.9589709044	Sum of GTIs [s]
ontime6	7795.1999710202	Sum of GTIs [s]
ontime7	7795.1999710202	Sum of GTIs [s]
l2events	810954	Number of level 2 events

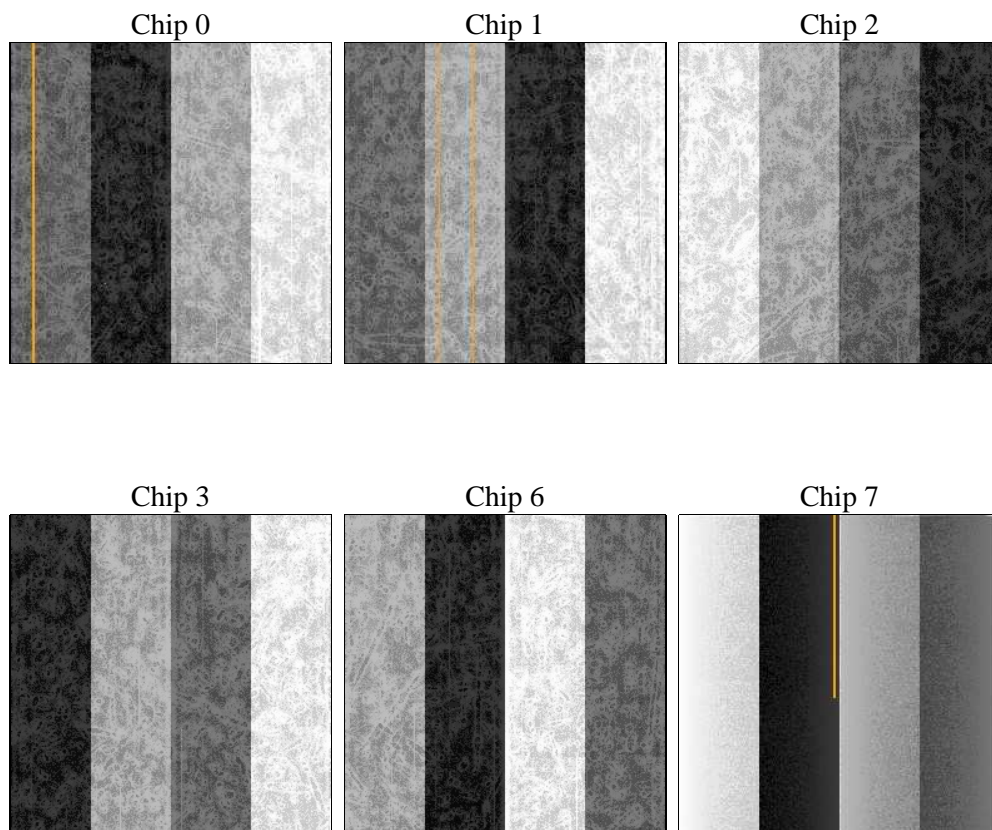
2 OBI

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	8.4.4	Processing system revision	ontime	7795.1999710202	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	7795.1999710202	Sum of GTIs [s]
date	2012-05-09T19:41:38	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	7791.9589709044	Sum of GTIs [s]
			ontime6	7795.1999710202	Sum of GTIs [s]
			ontime7	7795.1999710202	Sum of GTIs [s]
			l1events	1242314	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	198181	199742	203386	207009	209116	224880	grade 0 events	73770	73776	75401	76363	76437	36725
rejected events	63210	63272	67366	69444	66879	57913		37%	36%	37%	36%	36%	16%
rejected %	31%	31%	33%	33%	31%	25%	grade 1 events	491	427	528	533	419	192
								0%	0%	0%	0%	0%	0%
							grade 2 events	23584	24667	23026	23590	24910	36337
								11%	12%	11%	11%	11%	16%
							grade 3 events	8872	8880	9152	9126	8779	16356
								4%	4%	4%	4%	4%	7%
							grade 4 events	8861	8645	9130	9292	9192	16204
								4%	4%	4%	4%	4%	7%
							grade 5 events	3440	3736	3423	3920	4092	9784
								1%	1%	1%	1%	1%	4%
							grade 6 events	19950	20551	19356	19256	22970	61419
								10%	10%	9%	9%	10%	27%
							grade 7 events	59213	59060	63370	64929	62317	47863
								29%	29%	31%	31%	29%	21%

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	337.2146420584351	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-9.219231829631322	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	290.6684348044283			
[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)	274830525.822393	274830524.79739			
Observation start date	2006-09-16T21:48:46	2006-09-16T21:48:44			
[s] Observation end time (MET)	274840566.722865	274840565.69786			
Observation end date	2006-09-17T00:36:07	2006-09-17T00:36:05			
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)	2012.05.11
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 = 6 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 = 6 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:
(78,1),(101,1),(101,317),(78,294)