

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 60276 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Apr 1 2013

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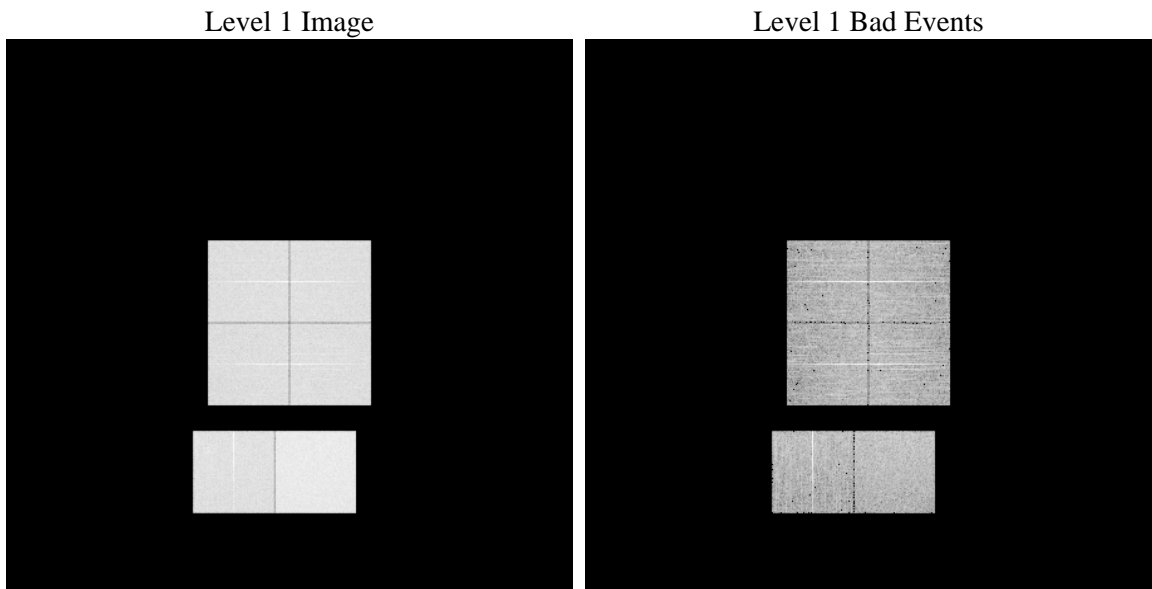
1 Front

seq_num	 	Sequence number
obs_id	60276	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	215.97075569401	Nominal RA [deg]
dec_nom	14.995352347848	Nominal Dec [deg]
roll_nom	156.48010953666	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7801.5999709368	Sum of GTIs [s]
livetime	7702.8114145452	Livetime [s]
ontime0	5610.7055346668	Sum of GTIs [s]
ontime1	5594.5004633963	Sum of GTIs [s]
ontime2	5306.0551959276	Sum of GTIs [s]
ontime3	5390.320153743	Sum of GTIs [s]
ontime6	5656.0768331885	Sum of GTIs [s]
ontime7	7801.5999709368	Sum of GTIs [s]
l2events	1110758	Number of level 2 events

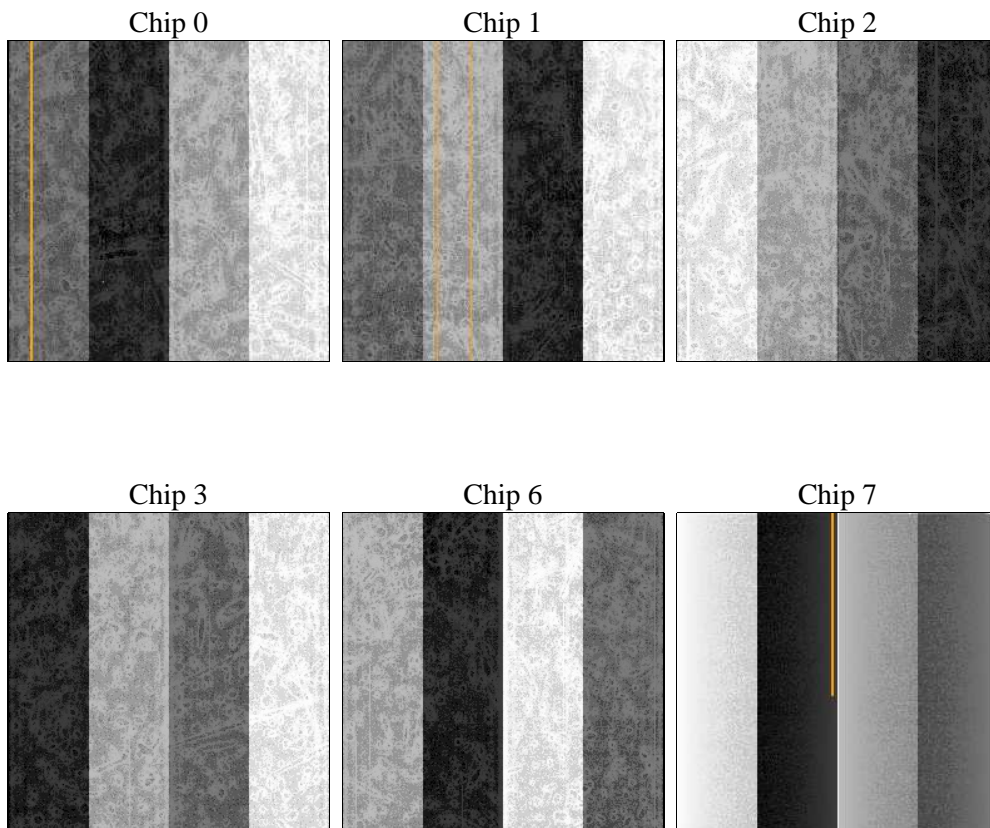
2 OBI

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	7801.5999709368	Sum of GTIs [s]
caldsver	4.5.6	 	ontime0	5610.7055346668	Sum of GTIs [s]
date	2013-04-01T21:40:49	Date and time of file creation	ontime1	5594.5004633963	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	5306.0551959276	Sum of GTIs [s]
			ontime3	5390.320153743	Sum of GTIs [s]
			ontime6	5656.0768331885	Sum of GTIs [s]
			ontime7	7801.5999709368	Sum of GTIs [s]
			l1events	1416209	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	219419	219835	210581	216135	232054	318185	grade 0 events	98363	98182	95575	96896	102766	66637
rejected events	40465	40341	39273	42443	42264	46329		44%	44%	45%	44%	44%	20%
rejected %	18%	18%	18%	19%	18%	14%	grade 1 events	556	493	617	597	503	181
								0%	0%	0%	0%	0%	0%
							grade 2 events	31246	31825	29044	29754	32815	59954
								14%	14%	13%	13%	14%	18%
							grade 3 events	11698	11404	11031	11446	11817	27293
								5%	5%	5%	5%	5%	8%
							grade 4 events	11448	11387	11252	11434	11962	26940
								5%	5%	5%	5%	5%	8%
							grade 5 events	2498	2641	2397	2701	2842	8538
								1%	1%	1%	1%	1%	2%
							grade 6 events	26276	26814	24500	24254	30524	91151
								11%	12%	11%	11%	13%	28%
							grade 7 events	37334	37089	36165	39053	38825	37491
								17%	16%	17%	18%	16%	11%

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	215.9707556940149
[deg] Pointing Dec	0	14.99535234784764
[deg] Pointing Roll	0.0	156.4801095366579
[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)	198527857.739335	198527856.71434
Observation start date	2004-04-16T18:37:38	2004-04-16T18:37:36
[s] Observation end time (MET)	198542088.839961	198542087.81496
Observation end date	2004-04-16T22:34:49	2004-04-16T22:34:47
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	0.000000	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)	2013.04.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8015999709368

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:
(652,1),(679,1),(679,1024),(652,1024)