

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58339 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Apr 27 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

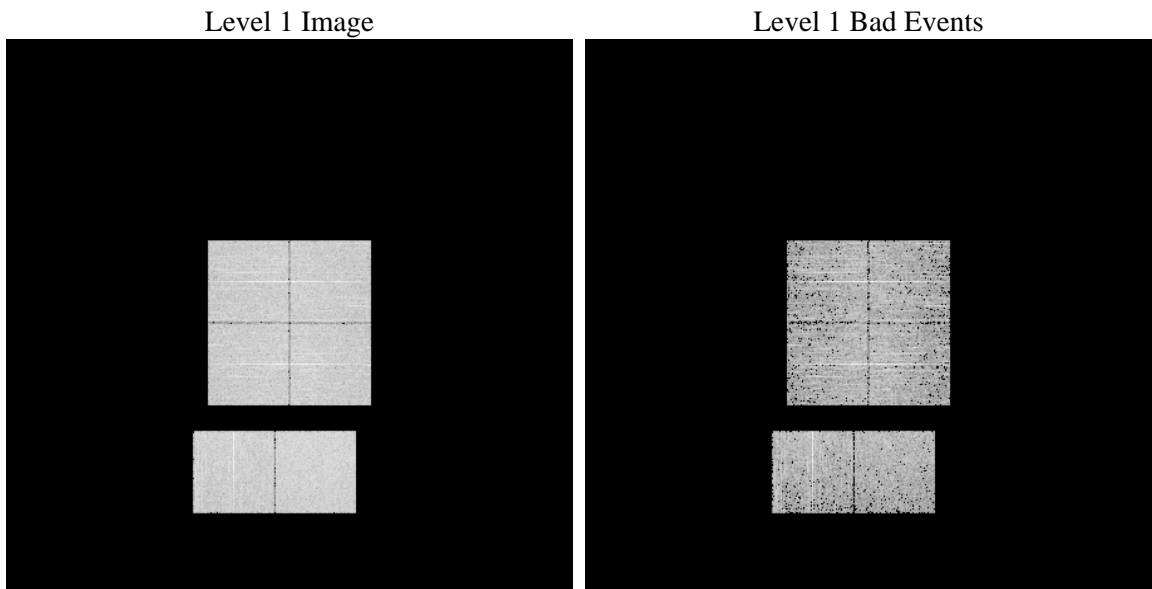
1 Front

seq_num	 	Sequence number
obs_id	58339	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	294.9712483087	Nominal RA [deg]
dec_nom	0.00073697609887523	Nominal Dec [deg]
roll_nom	145.75298147018	Nominal Roll [deg]
revision	3	Processing version of data
ontime	2563.1999905109	Sum of GTIs [s]
livetime	2530.7432088574	Livetime [s]
ontime0	2563.1999905109	Sum of GTIs [s]
ontime1	2563.1999905109	Sum of GTIs [s]
ontime2	2559.9589902163	Sum of GTIs [s]
ontime3	2563.1999905109	Sum of GTIs [s]
ontime6	2563.1999905109	Sum of GTIs [s]
ontime7	2563.1999905109	Sum of GTIs [s]
l2events	224478	Number of level 2 events

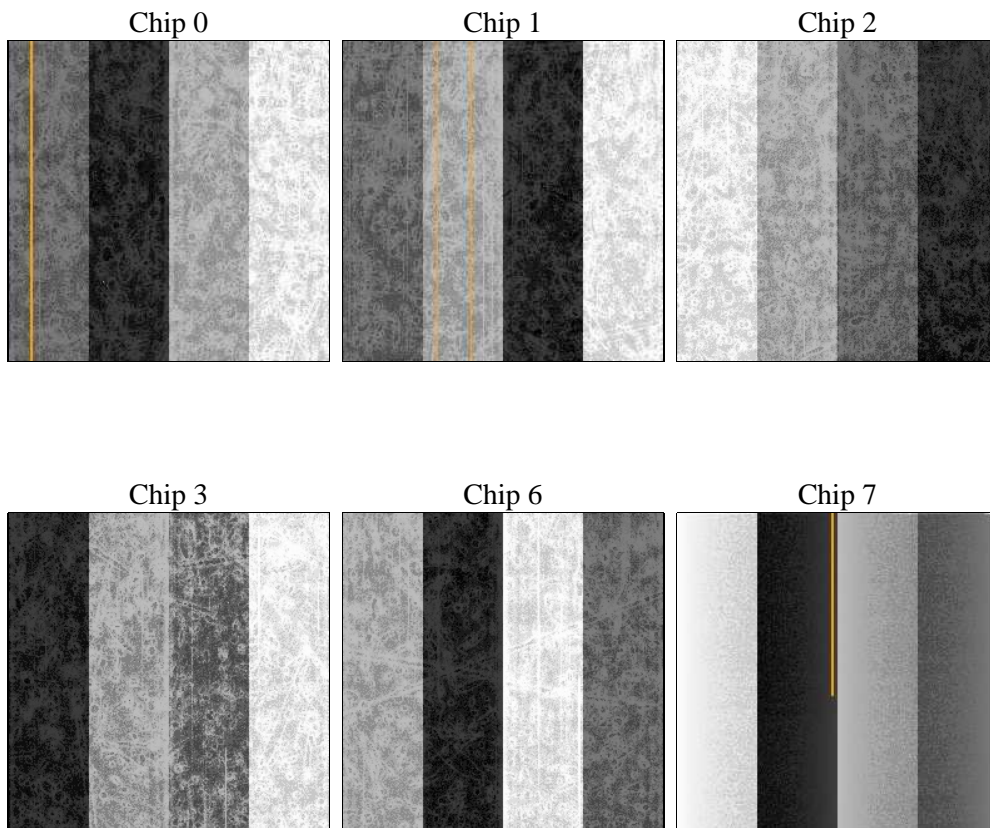
2 OBI

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	2563.1999905109	Sum of GTIs [s]
caldsver	4.4.9	 	ontime0	2563.1999905109	Sum of GTIs [s]
date	2012-04-27T13:28:49	Date and time of file creation	ontime1	2563.1999905109	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2559.9589902163	Sum of GTIs [s]
			ontime3	2563.1999905109	Sum of GTIs [s]
			ontime6	2563.1999905109	Sum of GTIs [s]
			ontime7	2563.1999905109	Sum of GTIs [s]
			l1events	370937	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	59844	59215	59970	60354	62865	68689	grade 0 events	20132	19950	20623	20889	20804	10166
rejected events	22772	21746	22624	22963	23743	20454		33%	33%	34%	34%	33%	14%
rejected %	38%	36%	37%	38%	37%	29%	grade 1 events	155	110	169	147	110	57
								0%	0%	0%	0%	0%	0%
							grade 2 events	6560	6957	6320	6362	6963	10691
								10%	11%	10%	10%	11%	15%
							grade 3 events	2506	2384	2575	2487	2496	4637
								4%	4%	4%	4%	3%	6%
							grade 4 events	2431	2466	2544	2547	2458	4587
								4%	4%	4%	4%	3%	6%
							grade 5 events	1203	1254	1123	1429	1388	3452
								2%	2%	1%	2%	2%	5%
							grade 6 events	5482	5761	5323	5154	6448	18204
								9%	9%	8%	8%	10%	26%
							grade 7 events	21375	20333	21293	21339	22198	16895
								35%	34%	35%	35%	35%	24%

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	294.9712483087017	Alternating exposures requested	N	N
[deg] Pointing Dec	0	0.0007369760988752302	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	145.7529814701782			
[mm] SIM focus pos	-0.782348	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-233.592463	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	299509888.643828	299509887.61883			
Observation start date	2007-06-29T13:11:29	2007-06-29T13:11:27			
[s] Observation end time (MET)	299522678.594441	299522677.56944			
Observation end date	2007-06-29T16:44:39	2007-06-29T16:44:37			
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)	2012.04.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.5631999905109

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:
(669,478),(700,478),(700,793),(669,793)