

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59375 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Apr 22 2013

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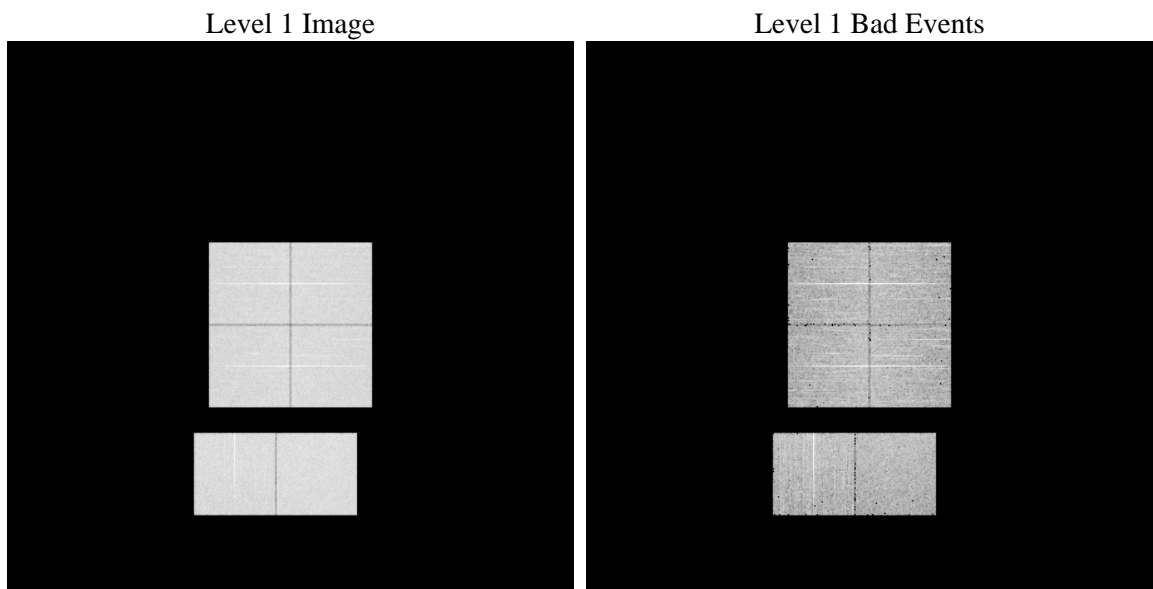
1 Front

seq_num	 	Sequence number
obs_id	59375	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	30.024031948884	Nominal RA [deg]
dec_nom	-17.978947499103	Nominal Dec [deg]
roll_nom	7.126440999716	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6114.8523524404	Sum of GTIs [s]
livetime	6037.4224100317	Livetime [s]
ontime0	6072.6785285175	Sum of GTIs [s]
ontime1	6114.7702724338	Sum of GTIs [s]
ontime2	5929.9934449196	Sum of GTIs [s]
ontime3	6046.8328558207	Sum of GTIs [s]
ontime6	6114.688192457	Sum of GTIs [s]
ontime7	6114.8523524404	Sum of GTIs [s]
l2events	793905	Number of level 2 events

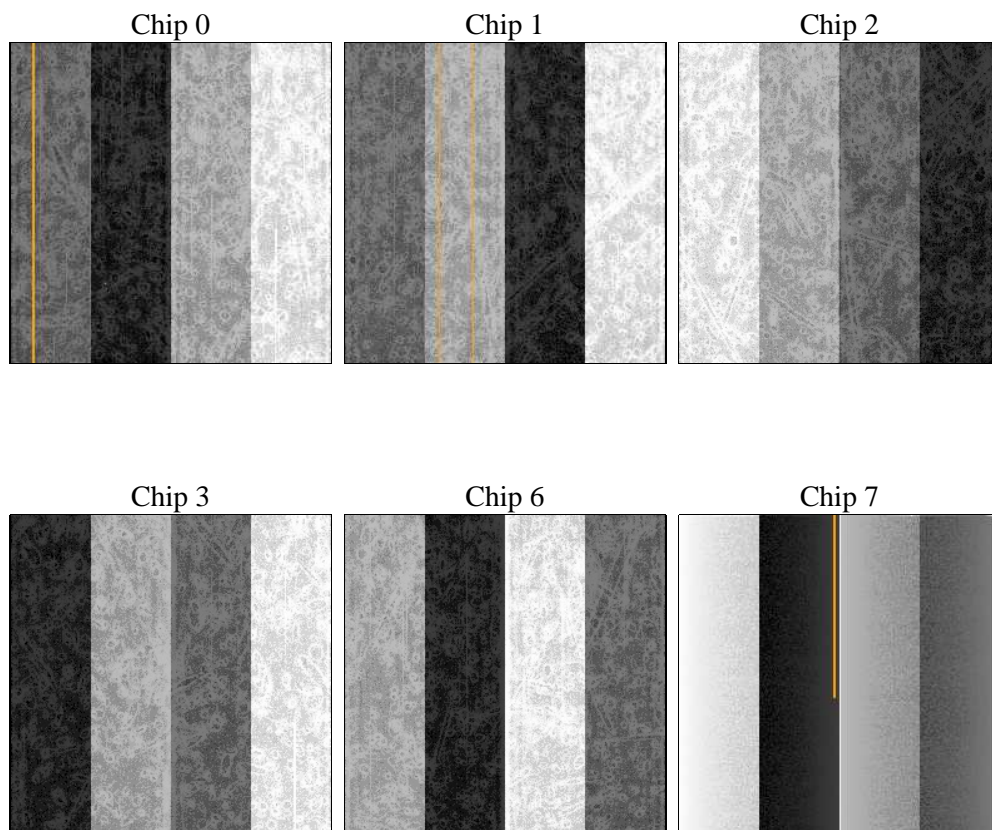
2 OBI

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	6114.8523524404	Sum of GTIs [s]
caldsver	4.5.6	 	ontime0	6072.6785285175	Sum of GTIs [s]
date	2013-04-22T20:27:48	Date and time of file creation	ontime1	6114.7702724338	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	5929.9934449196	Sum of GTIs [s]
			ontime3	6046.8328558207	Sum of GTIs [s]
			ontime6	6114.688192457	Sum of GTIs [s]
			ontime7	6114.8523524404	Sum of GTIs [s]
			l1events	1109390	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	179236	181262	178726	182697	190993	196476	grade 0 events	74261	74431	73807	76034	76399	36836
rejected events	44377	44781	46719	47153	49477	41114		41%	41%	41%	41%	40%	18%
rejected %	24%	24%	26%	25%	25%	20%	grade 1 events	457	416	459	524	394	132
								0%	0%	0%	0%	0%	0%
							grade 2 events	23922	24932	22617	23437	25136	33974
								13%	13%	12%	12%	13%	17%
							grade 3 events	8863	8871	8666	8957	8845	15419
								4%	4%	4%	4%	4%	7%
							grade 4 events	8791	8700	8809	8886	8967	15235
								4%	4%	4%	4%	4%	7%
							grade 5 events	2533	2839	2470	2864	2949	6899
								1%	1%	1%	1%	1%	3%
							grade 6 events	20184	20717	19294	19300	23311	55220
								11%	11%	10%	10%	12%	28%
							grade 7 events	40225	40356	42604	42695	44992	32761
								22%	22%	23%	23%	23%	16%

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	30.02403194888378	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-17.97894749910263	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	7.126440999716005			
[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)	246315454.994528	246315453.96953			
Observation start date	2005-10-21T20:57:35	2005-10-21T20:57:33			
[s] Observation end time (MET)	246336836.495513	246336835.47051			
Observation end date	2005-10-22T02:53:56	2005-10-22T02:53:55			
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)	2013.04.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1148523524404

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:
(727,329),(757,329),(757,740),(727,740)