

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 52044 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Mar 4 2015

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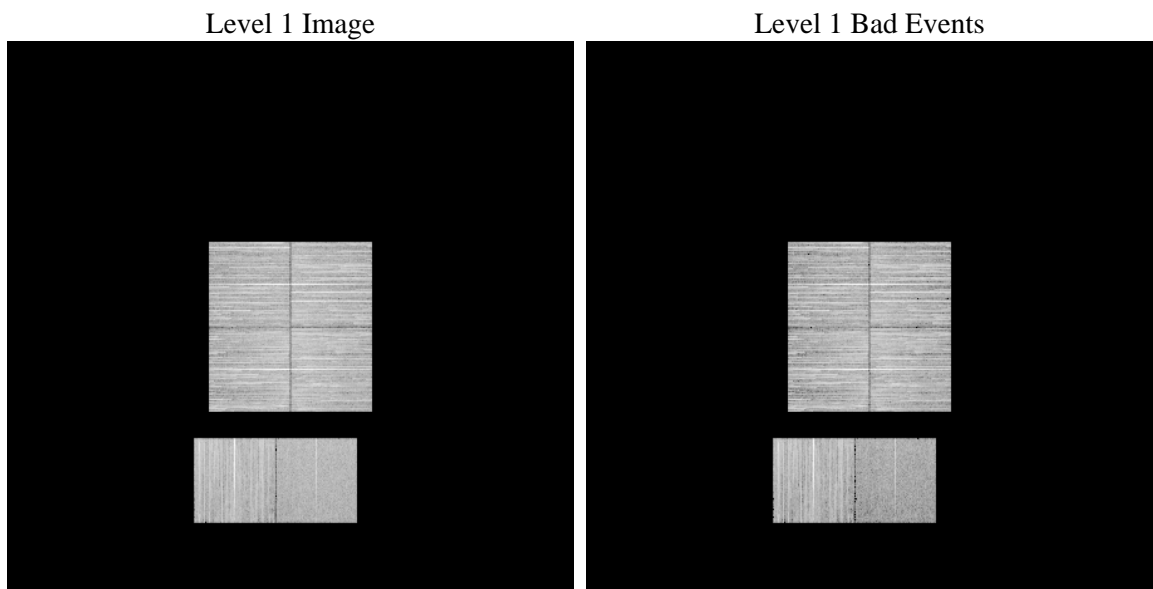
1 Front

seq_num	 	Sequence number
obs_id	52044	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	137.02994486706	Nominal RA [deg]
dec_nom	26.030048829442	Nominal Dec [deg]
roll_nom	235.44515994822	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7990.4001190662	Sum of GTIs [s]
livetime	7889.2208615173	Livetime [s]
ontime0	7990.4001190662	Sum of GTIs [s]
ontime1	7990.4001190662	Sum of GTIs [s]
ontime2	7990.4001190662	Sum of GTIs [s]
ontime3	7990.4001190662	Sum of GTIs [s]
ontime6	7990.4001190662	Sum of GTIs [s]
ontime7	7990.4001190662	Sum of GTIs [s]
l2events	147659	Number of level 2 events

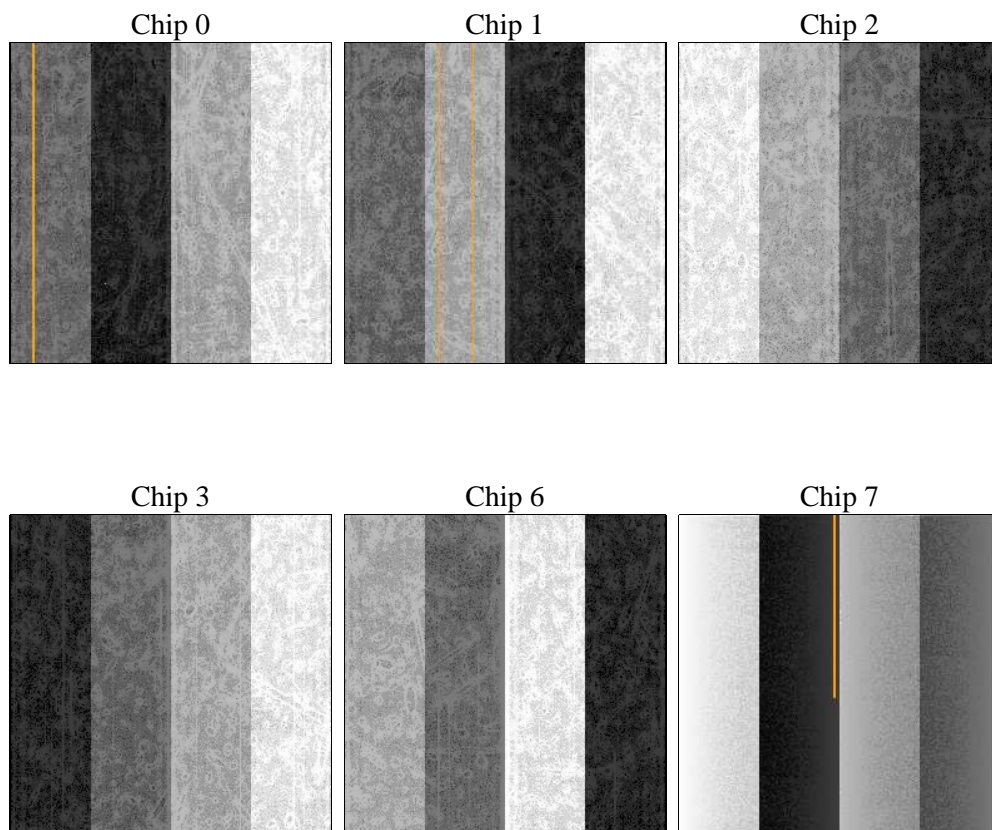
2 OBI

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	10.3.3	Processing system revision	ontime	7990.4001190662	Sum of GTIs [s]
caldsver	4.6.7	 	ontime0	7990.4001190662	Sum of GTIs [s]
date	2015-03-04T23:51:32	Date and time of file creation	ontime1	7990.4001190662	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	7990.4001190662	Sum of GTIs [s]
			ontime3	7990.4001190662	Sum of GTIs [s]
			ontime6	7990.4001190662	Sum of GTIs [s]
			ontime7	7990.4001190662	Sum of GTIs [s]
			l1events	847670	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	140040	152578	147074	151736	144281	111961	grade 0 events	11060	10654	11585	11413	11007	6129
rejected events	118315	130543	125071	129848	121203	65887		7%	6%	7%	7%	7%	5%
rejected %	84%	85%	85%	85%	84%	58%	grade 1 events	48	43	78	70	66	78
								0%	0%	0%	0%	0%	0%
							grade 2 events	4728	5180	4459	4500	5282	11756
								3%	3%	3%	2%	3%	10%
							grade 3 events	1625	1545	1603	1538	1634	3813
								1%	1%	1%	1%	1%	3%
							grade 4 events	1387	1525	1574	1577	1565	3667
								0%	0%	1%	1%	1%	3%
							grade 5 events	2668	2742	2510	2990	2902	7157
								1%	1%	1%	1%	2%	6%
							grade 6 events	3642	3906	3471	3602	4332	22284
								2%	2%	2%	2%	3%	19%
							grade 7 events	114882	126983	121794	126046	117493	57077
								82%	83%	82%	83%	81%	50%

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	137.029944867063
[deg] Pointing Dec	0	26.03004882944196
[deg] Pointing Roll	0.0	235.4451599482215
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	541481419.270067	541481419.270067
Observation start date	2015-02-28T03:30:19	2015-02-28T03:30:19
[s] Observation end time (MET)	541490966.958102	541490966.958102
Observation end date	2015-02-28T06:09:27	2015-02-28T06:09:26
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.03.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.9904001190662

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.