

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 51373 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Dec 29 2015

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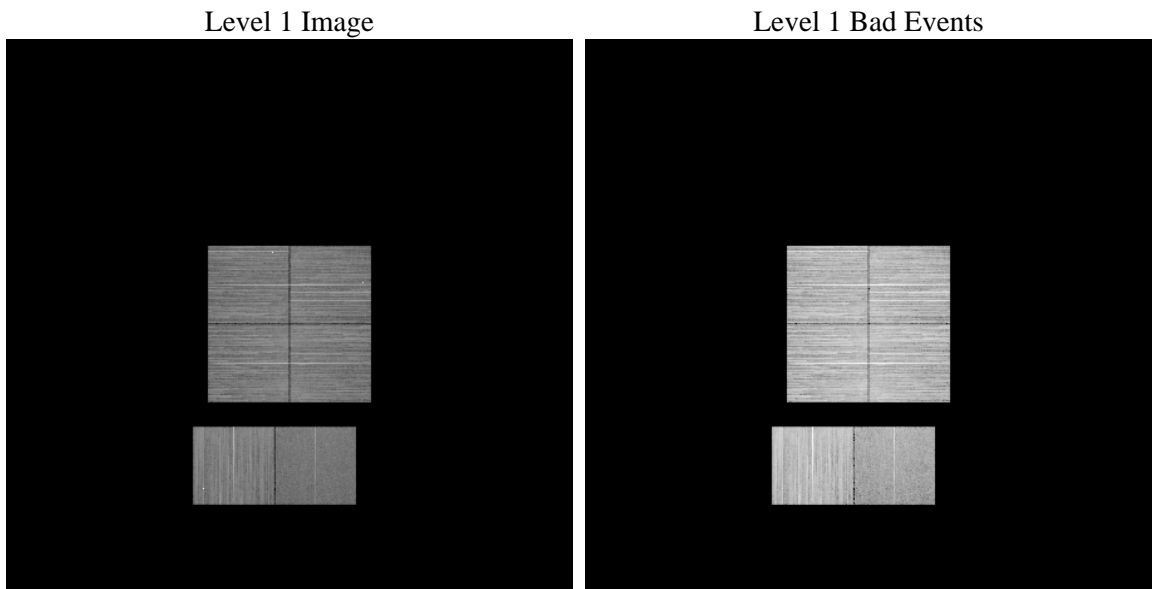
1 Front

seq_num	 	Sequence number
obs_id	51373	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	68.496206329746	Nominal RA [deg]
dec_nom	22.998154084377	Nominal Dec [deg]
roll_nom	276.19832791958	Nominal Roll [deg]
revision	2	Processing version of data
ontime	8256.000123024	Sum of GTIs [s]
livetime	8151.4576782998	Livetime [s]
ontime0	8126.3565561771	Sum of GTIs [s]
ontime1	8119.8744760752	Sum of GTIs [s]
ontime2	8126.3565564156	Sum of GTIs [s]
ontime3	8132.8387167454	Sum of GTIs [s]
ontime6	8132.8387572765	Sum of GTIs [s]
ontime7	8256.000123024	Sum of GTIs [s]
l2events	233437	Number of level 2 events

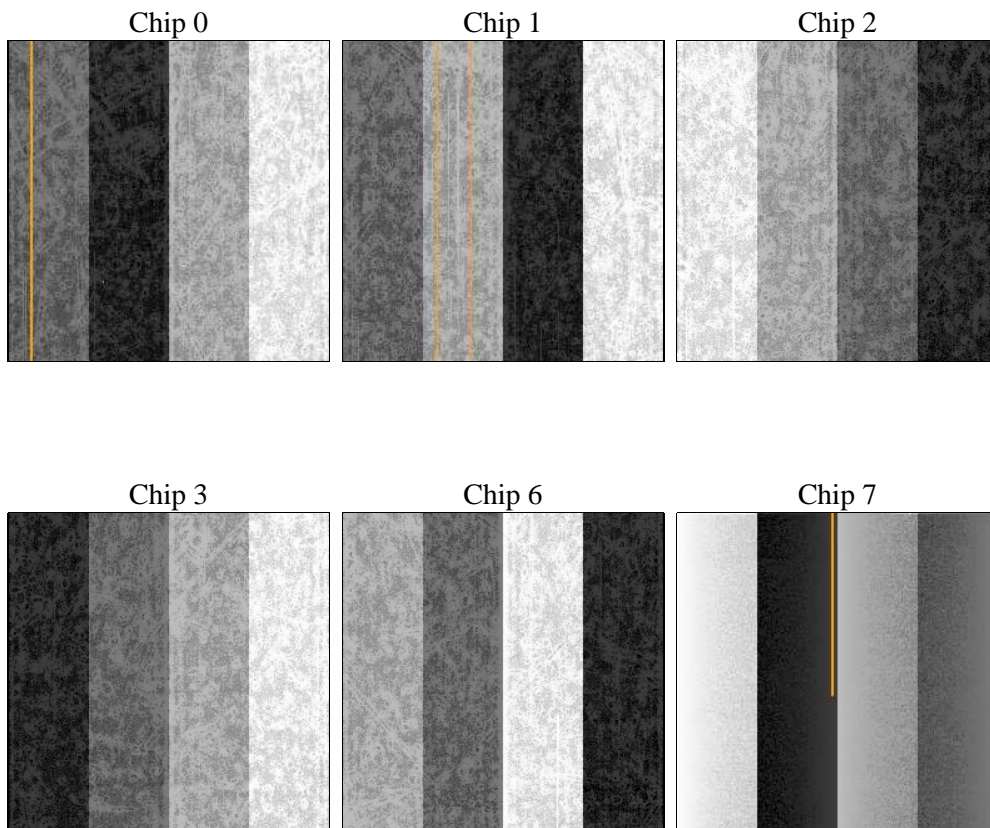
2 OBI

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	10.4.3	Processing system revision	ontime	8256.000123024	Sum of GTIs [s]
caldsver	4.7.0	 	ontime0	8126.3565561771	Sum of GTIs [s]
date	2015-12-29T19:29:20	Date and time of file creation	ontime1	8119.8744760752	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	8126.3565564156	Sum of GTIs [s]
			ontime3	8132.8387167454	Sum of GTIs [s]
			ontime6	8132.8387572765	Sum of GTIs [s]
			ontime7	8256.000123024	Sum of GTIs [s]
			l1events	1144048	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	190781	195834	200261	200157	212749	144266	grade 0 events	15836	13853	16841	16980	18724	7847
rejected events	151765	156742	164246	162797	170054	81741		8%	7%	8%	8%	8%	5%
rejected %	79%	80%	82%	81%	79%	56%	grade 1 events	86	72	115	89	92	100
								0%	0%	0%	0%	0%	0%
							grade 2 events	11666	13371	8189	8678	11578	16214
								6%	6%	4%	4%	5%	11%
							grade 3 events	2122	1979	2215	2281	1798	4128
								1%	1%	1%	1%	0%	2%
							grade 4 events	2131	1970	2167	2357	1852	3878
								1%	1%	1%	1%	0%	2%
							grade 5 events	3025	2956	2951	3391	3040	7467
								1%	1%	1%	1%	1%	5%
							grade 6 events	7261	7925	6610	7064	8753	30458
								3%	4%	3%	3%	4%	21%
							grade 7 events	148654	153708	161173	159317	166912	74174
								77%	78%	80%	79%	78%	51%

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	68.4962063297461
[deg] Pointing Dec	0	22.99815408437737
[deg] Pointing Roll	0.0	276.198327919585
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	567570508.728341	567570507.7033401
Observation start date	2015-12-27T02:28:29	2015-12-27T02:28:27
[s] Observation end time (MET)	567582784.129038	567582783.10404
Observation end date	2015-12-27T05:53:04	2015-12-27T05:53:03
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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)	2015.12.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.256000123024

A.2 Comments

A spatial region of the original bias map for CCD = 1 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 = 1 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation.