

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 50963 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 10 2016

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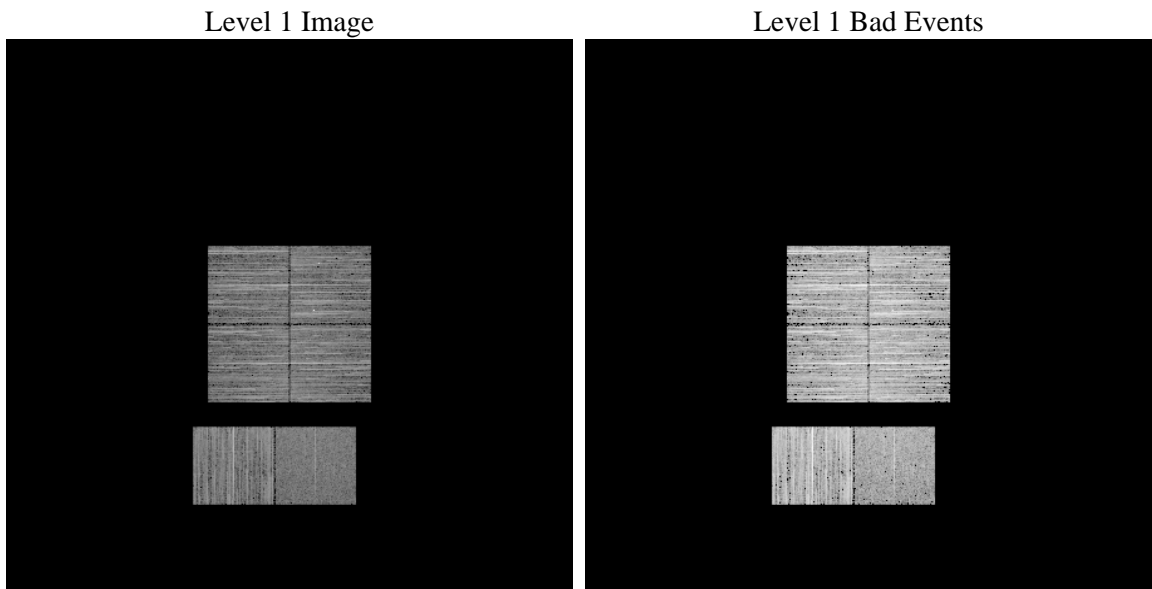
1 Front

seq_num	 	Sequence number
obs_id	50963	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtycle	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	285.63998834915	Nominal RA [deg]
dec_nom	-13.222782881501	Nominal Dec [deg]
roll_nom	113.34468245359	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3205.4034632444	Sum of GTIs [s]
livetime	3164.8147145306	Livetime [s]
ontime0	3095.1665576696	Sum of GTIs [s]
ontime1	3085.4024076462	Sum of GTIs [s]
ontime2	3085.3613675833	Sum of GTIs [s]
ontime3	3092.0076180696	Sum of GTIs [s]
ontime6	3088.561377883	Sum of GTIs [s]
ontime7	3205.4034632444	Sum of GTIs [s]
l2events	55371	Number of level 2 events

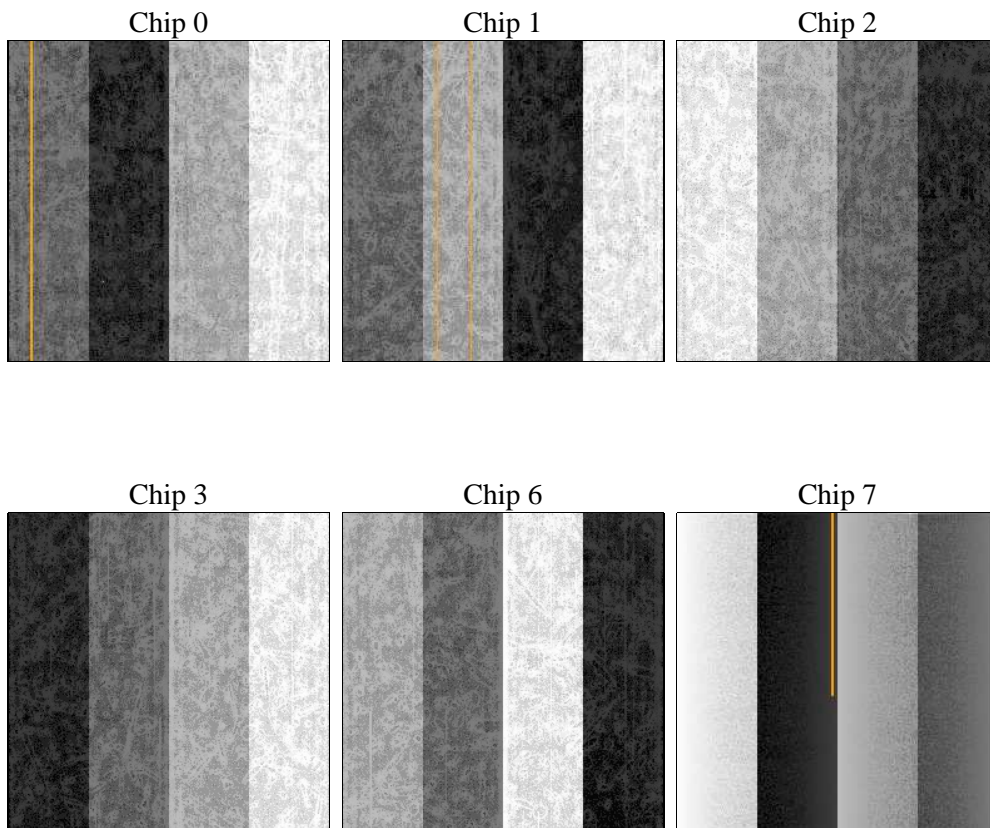
2 OBI

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	10.4.3.1	Processing system revision	ontime	3205.4034632444	Sum of GTIs [s]
caldbver	4.7.2	 	ontime0	3095.1665576696	Sum of GTIs [s]
date	2016-06-10T17:47:33	Date and time of file creation	ontime1	3085.4024076462	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	3085.3613675833	Sum of GTIs [s]
			ontime3	3092.0076180696	Sum of GTIs [s]
			ontime6	3088.561377883	Sum of GTIs [s]
			ontime7	3205.4034632444	Sum of GTIs [s]
			l1events	396968	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	67512	69518	65990	68996	70583	54369
rejected events	59901	59735	58518	61265	62829	33750
rejected %	88%	85%	88%	88%	89%	62%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	3640	3892	3660	3827	3472	2290
	5%	5%	5%	5%	4%	4%
grade 1 events	25	32	28	29	17	49
	0%	0%	0%	0%	0%	0%
grade 2 events	1716	3463	1592	1634	1816	5182
	2%	4%	2%	2%	2%	9%
grade 3 events	566	544	551	562	578	1587
	0%	0%	0%	0%	0%	2%
grade 4 events	515	592	576	607	561	1536
	0%	0%	0%	0%	0%	2%
grade 5 events	1263	1332	1154	1459	1409	3591
	1%	1%	1%	2%	1%	6%
grade 6 events	1360	1492	1263	1261	1501	10400
	2%	2%	1%	1%	2%	19%
grade 7 events	58427	58171	57166	59617	61229	29734
	86%	83%	86%	86%	86%	54%

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	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	285.6399883491538	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-13.22278288150056	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	113.3446824535901	[s] Primary exposure time	3.2	3.2
[mm] SIM focus pos	-1.429586	-0.6828225247311905			
[mm] SIM defocus	0.1037507710433287	0.8505141146731063			
[mm] SIM translation stage pos	250.455976	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	581737417.821725	581737416.79672			
Observation start date	2016-06-08T01:43:38	2016-06-08T01:43:36			
[s] Observation end time (MET)	581744652.272139	581744651.24714			
Observation end date	2016-06-08T03:44:12	2016-06-08T03:44:11			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2016.06.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2054034632444

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.