

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 51661 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Sep 4 2015

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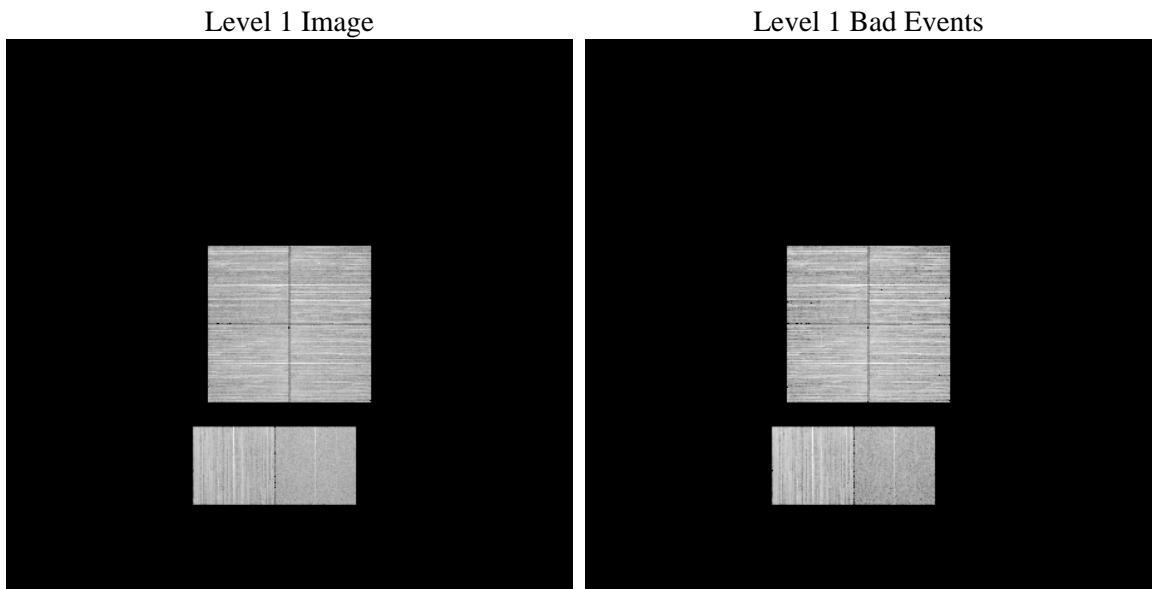
1 Front

seq_num	 	Sequence number
obs_id	51661	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	350.11789560163	Nominal RA [deg]
dec_nom	-30.775519245804	Nominal Dec [deg]
roll_nom	25.095882643711	Nominal Roll [deg]
revision	2	Processing version of data
ontime	6112.0000910759	Sum of GTIs [s]
livetime	6034.6062657181	Livetime [s]
ontime0	6112.0000910759	Sum of GTIs [s]
ontime1	6112.0000910759	Sum of GTIs [s]
ontime2	6112.0000910759	Sum of GTIs [s]
ontime3	6112.0000910759	Sum of GTIs [s]
ontime6	6112.0000910759	Sum of GTIs [s]
ontime7	6112.0000910759	Sum of GTIs [s]
l2events	124996	Number of level 2 events

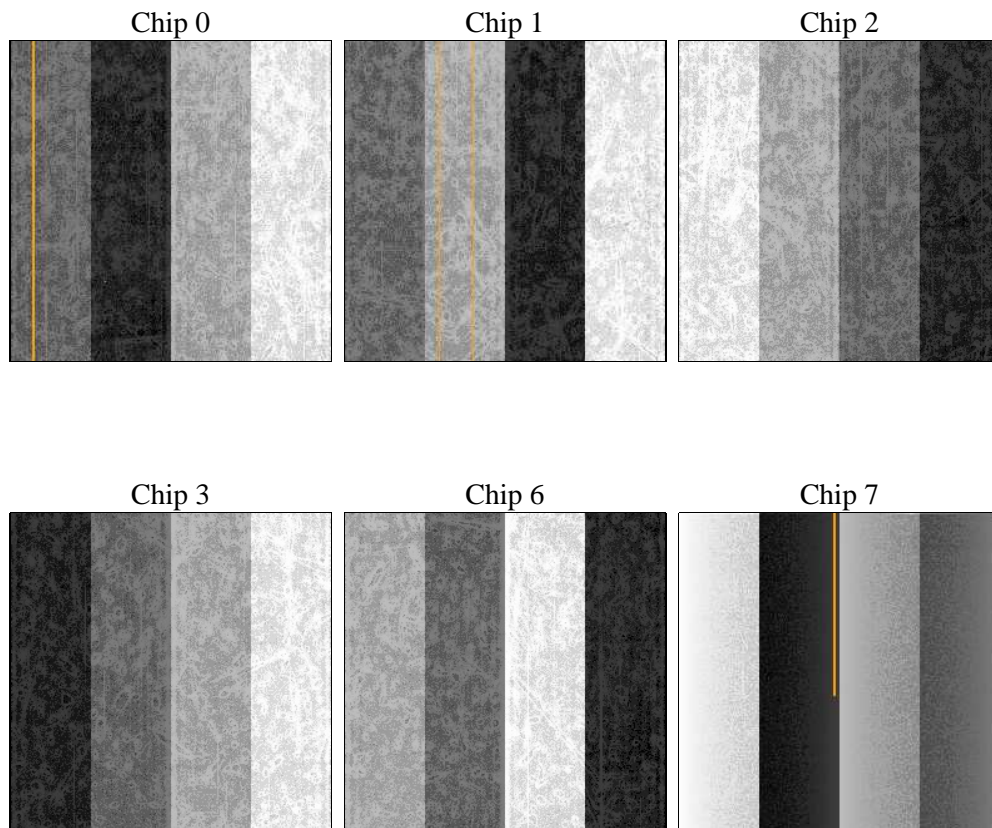
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.4.1	Processing system revision	ontime	6112.0000910759	Sum of GTIs [s]
caldsver	4.6.8	 	ontime0	6112.0000910759	Sum of GTIs [s]
date	2015-09-04T17:20:35	Date and time of file creation	ontime1	6112.0000910759	Sum of GTIs [s]
revision	2	Processing version of data	ontime2	6112.0000910759	Sum of GTIs [s]
			ontime3	6112.0000910759	Sum of GTIs [s]
			ontime6	6112.0000910759	Sum of GTIs [s]
			ontime7	6112.0000910759	Sum of GTIs [s]
			l1events	720696	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	111909	122750	127665	128325	132750	97297	grade 0 events	9285	9076	9535	9799	9015	5054
rejected events	93110	103468	109112	109366	113693	58962		8%	7%	7%	7%	6%	5%
rejected %	83%	84%	85%	85%	85%	60%	grade 1 events	42	48	62	61	58	69
								0%	0%	0%	0%	0%	0%
							grade 2 events	4263	4980	4044	4026	4554	10167
								3%	4%	3%	3%	3%	10%
							grade 3 events	1381	1256	1336	1329	1226	2995
								1%	1%	1%	1%	0%	3%
							grade 4 events	1211	1260	1373	1374	1204	2869
								1%	1%	1%	1%	0%	2%
							grade 5 events	2284	2213	2044	2549	2384	5844
								2%	1%	1%	1%	1%	6%
							grade 6 events	3590	3664	3265	3423	4073	19203
								3%	2%	2%	2%	3%	19%
							grade 7 events	89853	100253	106006	105764	110236	51096
								80%	81%	83%	82%	83%	52%

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	350.1178956016303
[deg] Pointing Dec	0	-30.77551924580356
[deg] Pointing Roll	0.0	25.09588264371085
SIM focus pos (mm)	-0.78090834371673	-0.78090834371673
[mm] SIM defocus	0.7524282194390134	0.7524282194390134
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	557476172.068135	557476172.068135
Observation start date	2015-09-01T06:29:32	2015-09-01T06:29:32
[s] Observation end time (MET)	557483699.5525399	557483699.5525399
Observation end date	2015-09-01T08:35:00	2015-09-01T08:34:59
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)	2015.09.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.1120000910759

A.2 Comments

A spatial region of the original bias map for CCD = 0 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 = 0 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation.