

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 54693 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 24 2012

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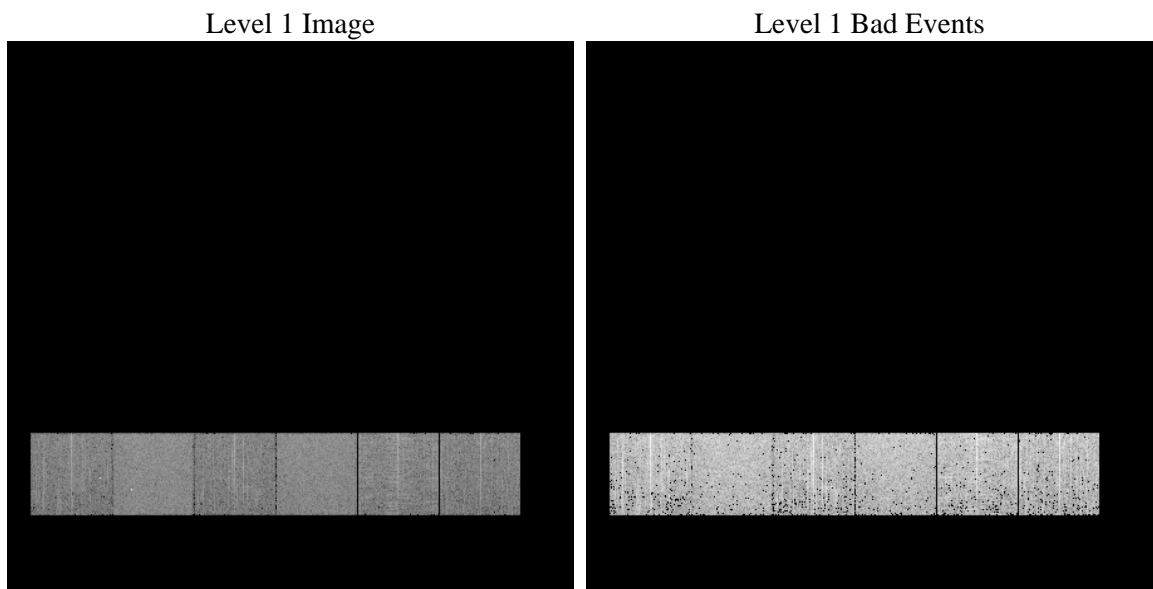
1 Front

seq_num	 	Sequence number
obs_id	54693	Observation id
title	ACIS-456789 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	210.98018616776	Nominal RA [deg]
dec_nom	-40.986588059107	Nominal Dec [deg]
roll_nom	6.8204047559175	Nominal Roll [deg]
revision	2	Processing version of data
ontime	3282.4008683562	Sum of GTIs [s]
livetime	3240.8371321366	Livetime [s]
ontime4	3282.2777483463	Sum of GTIs [s]
ontime5	3282.3598283529	Sum of GTIs [s]
ontime6	3282.3187883496	Sum of GTIs [s]
ontime7	3282.4008683562	Sum of GTIs [s]
ontime8	3282.236708343	Sum of GTIs [s]
ontime9	3282.4419083595	Sum of GTIs [s]
l2events	116688	Number of level 2 events

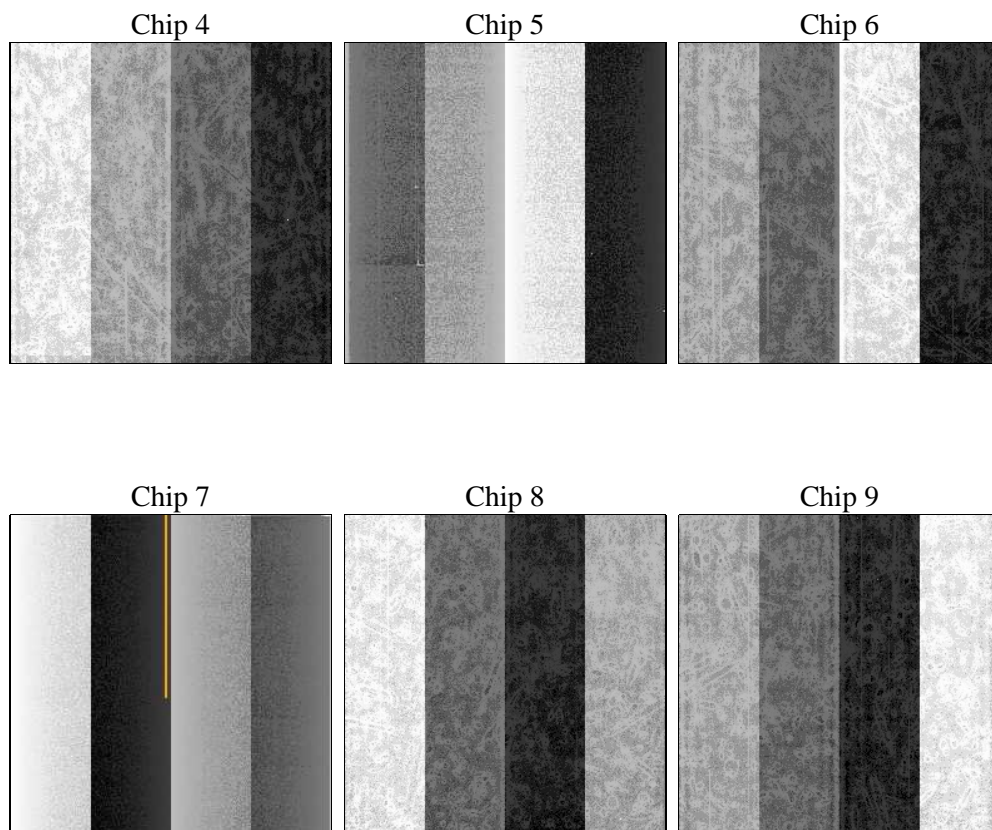
2 OBI

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	8.4.4	Processing system revision	ontime	3282.4008683562	Sum of GTIs [s]
caldsver	4.4.9	 	ontime4	3282.2777483463	Sum of GTIs [s]
date	2012-04-24T19:15:45	Date and time of file creation	ontime5	3282.3598283529	Sum of GTIs [s]
revision	2	Processing version of data	ontime6	3282.3187883496	Sum of GTIs [s]
			ontime7	3282.4008683562	Sum of GTIs [s]
			ontime8	3282.236708343	Sum of GTIs [s]
			ontime9	3282.4419083595	Sum of GTIs [s]
			l1events	268857	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	39993	52723	39691	50739	46076	39635	grade 0 events	9644	3172	8651	4343	9746	8746
rejected events	23326	23506	22663	22948	24796	22810		24%	6%	21%	8%	21%	22%
rejected %	58%	44%	57%	45%	53%	57%	grade 1 events	86	64	48	41	58	63
								0%	0%	0%	0%	0%	0%
							grade 2 events	2603	10554	3210	6066	4219	3059
								6%	20%	8%	11%	9%	7%
							grade 3 events	1149	1133	1138	2268	1627	1166
								2%	2%	2%	4%	3%	2%
							grade 4 events	1167	1107	1175	2467	1617	1199
								2%	2%	2%	4%	3%	3%
							grade 5 events	1426	2934	1427	3500	1958	1557
								3%	5%	3%	6%	4%	3%
							grade 6 events	2104	13251	2854	12647	4071	2655
								5%	25%	7%	24%	8%	6%
							grade 7 events	21814	20508	21188	19407	22780	21190
								54%	38%	53%	38%	49%	53%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	210.9801861677608	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-40.98658805910679	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	6.820404755917502	[s] Primary exposure time	3.2	3.2
[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)	451228224.022088	451228222.99709			
Observation start date	2012-04-19T13:10:24	2012-04-19T13:10:22			
[s] Observation end time (MET)	451233662.672376	451233661.64738			
Observation end date	2012-04-19T14:41:03	2012-04-19T14:41:01			
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)	2012.04.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.2824008683562

A.2 Comments

Two CCD bias maps were incomplete because of data gaps in telemetry. Bias maps for chips 4 and 8 were reconstructed using scaled data from a comparable bias map for another observation to fill the data gaps. The pixels affected by the anomaly are bounded by the chip coordinates:

CCD 4: (1,1),(1024,1),(1024,24),(1,24)

CCD 8: (1,1015),(1024,1015),(1024,1024),(1,1024)