

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60669 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Oct 31 2012

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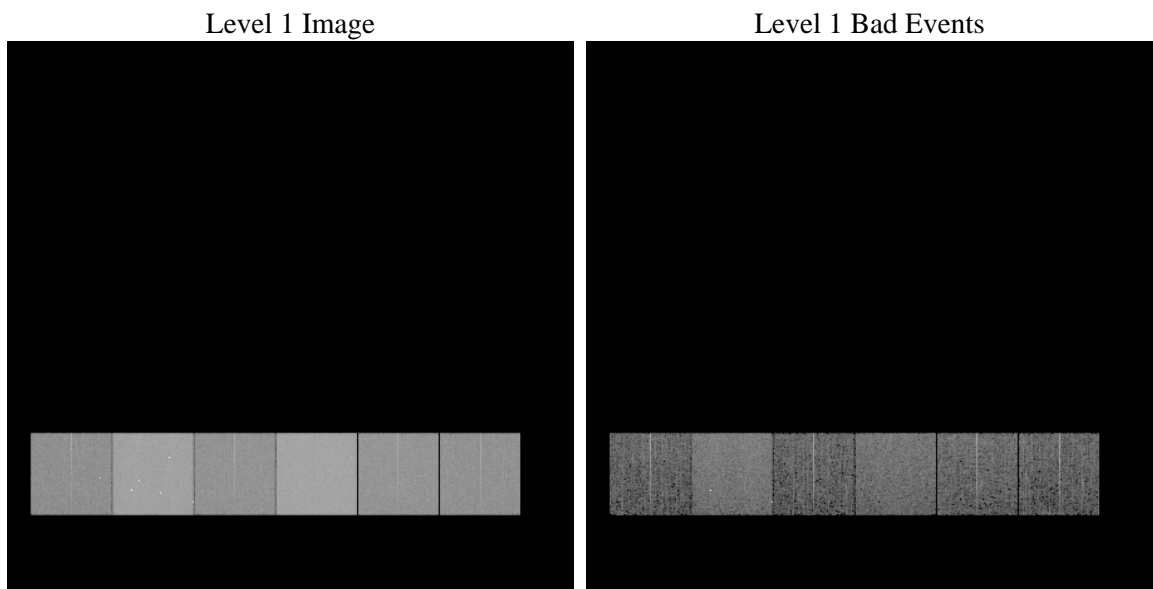
1 Front

seq_num	 	Sequence number
obs_id	60669	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	92.864938167879	Nominal RA [deg]
dec_nom	-40.009857662133	Nominal Dec [deg]
roll_nom	167.29966391122	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8444.5386454463	Sum of GTIs [s]
livetime	8337.6088124269	Livetime [s]
ontime4	4137.3056081235	Sum of GTIs [s]
ontime5	8451.0361274183	Sum of GTIs [s]
ontime6	4506.7785167396	Sum of GTIs [s]
ontime7	8444.5386454463	Sum of GTIs [s]
ontime8	4643.0479446948	Sum of GTIs [s]
ontime9	4373.8403218985	Sum of GTIs [s]
l2events	1241638	Number of level 2 events

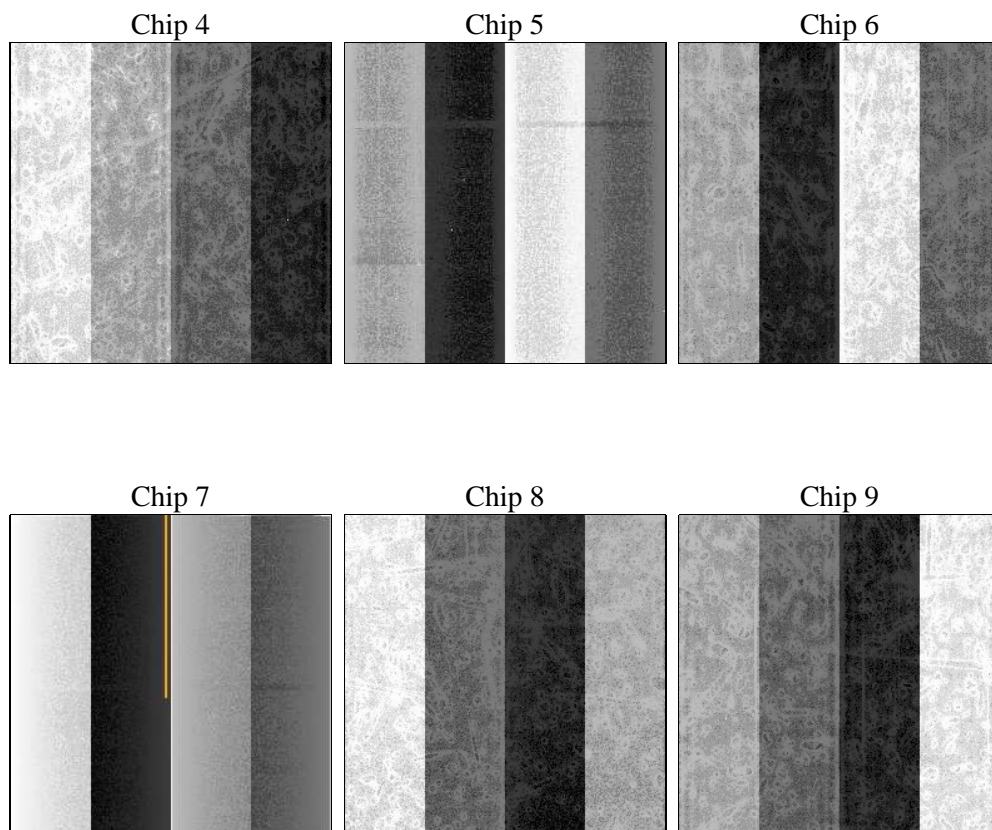
2 OBI

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	8.4.5	Processing system revision	ontime	8444.5386454463	Sum of GTIs [s]
caldsver	4.5.2	 	ontime4	4137.3056081235	Sum of GTIs [s]
date	2012-10-31T09:25:23	Date and time of file creation	ontime5	8451.0361274183	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	4506.7785167396	Sum of GTIs [s]
			ontime7	8444.5386454463	Sum of GTIs [s]
			ontime8	4643.0479446948	Sum of GTIs [s]
			ontime9	4373.8403218985	Sum of GTIs [s]
			l1events	1536792	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	181347	355161	207010	378887	219251	195136	grade 0 events	89937	59279	96882	81870	102897	92385
rejected events	30569	59094	29937	44083	34922	29929		49%	16%	46%	21%	46%	47%
rejected %	16%	16%	14%	11%	15%	15%	grade 1 events	638	333	418	230	500	499
								0%	0%	0%	0%	0%	0%
							grade 2 events	22257	117941	30693	74466	31629	27364
								12%	33%	14%	19%	14%	14%
							grade 3 events	9886	14817	10704	33410	11662	10436
								5%	4%	5%	8%	5%	5%
							grade 4 events	9935	14534	10907	32852	11655	10485
								5%	4%	5%	8%	5%	5%
							grade 5 events	1898	9826	2048	8136	2447	2115
								1%	2%	0%	2%	1%	1%
							grade 6 events	18809	89559	27895	112695	27093	24567
								10%	25%	13%	29%	12%	12%
							grade 7 events	27987	48872	27463	35228	31368	27285
								15%	13%	13%	9%	14%	13%

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	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	92.86493816787876	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-40.00985766213257	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	167.2996639112225			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	173887147.772113	173887146.74741			
Observation start date	2003-07-06T13:59:08	2003-07-06T13:59:06			
[s] Observation end time (MET)	173909494.823064	173909493.79836			
Observation end date	2003-07-06T20:11:35	2003-07-06T20:11:33			
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)	2013.01.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.4445386454463

A.2 Comments

Two CCD bias maps were incomplete because of data gaps in telemetry. Bias maps for chips 5 and 7 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 coords:

CCD 5: (1,755),(1024,755),(1024,774),(1,774)

CCD 7: (1,465),(1024,465),(1024,484),(1,484)