

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 62084 - L2 Version 6
Chandra X-Ray Center

L2 Processing Date : Nov 26 2013

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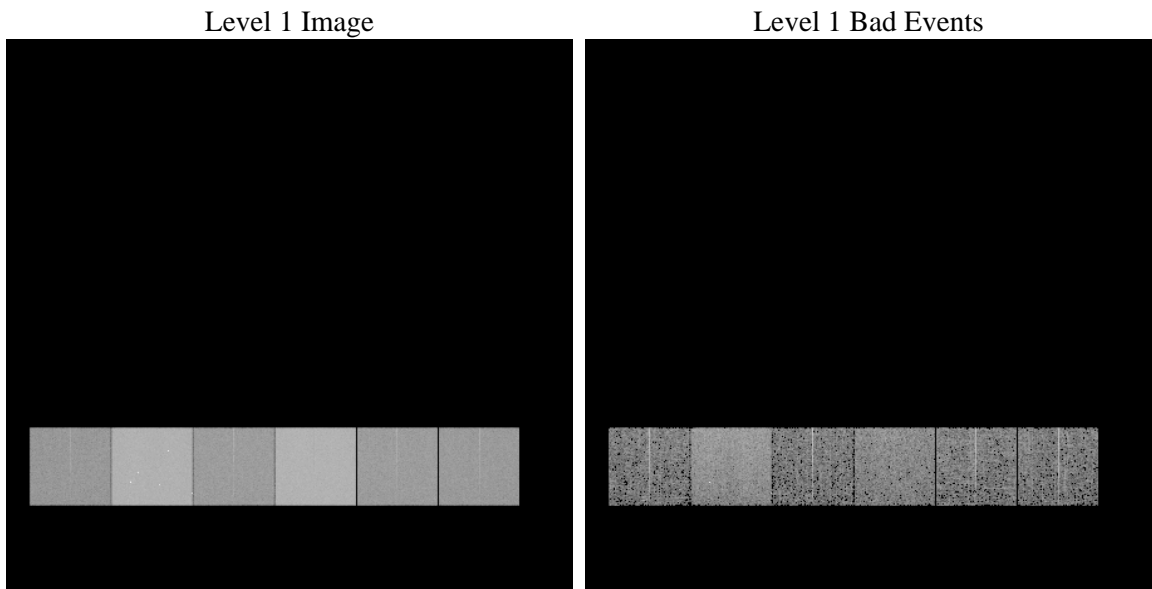
1 Front

seq_num	 	Sequence number
obs_id	62084	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtycycle	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	60.042873765374	Nominal RA [deg]
dec_nom	49.991561350379	Nominal Dec [deg]
roll_nom	310.72506184918	Nominal Roll [deg]
revision	6	Processing version of data
ontime	4223.0618691295	Sum of GTIs [s]
livetime	4169.58691692	Livetime [s]
ontime4	1656.7134962976	Sum of GTIs [s]
ontime5	4501.7854563594	Sum of GTIs [s]
ontime6	1860.3555995077	Sum of GTIs [s]
ontime7	4223.0618691295	Sum of GTIs [s]
ontime8	1853.8735494316	Sum of GTIs [s]
ontime9	1766.3655195087	Sum of GTIs [s]
l2events	1279186	Number of level 2 events

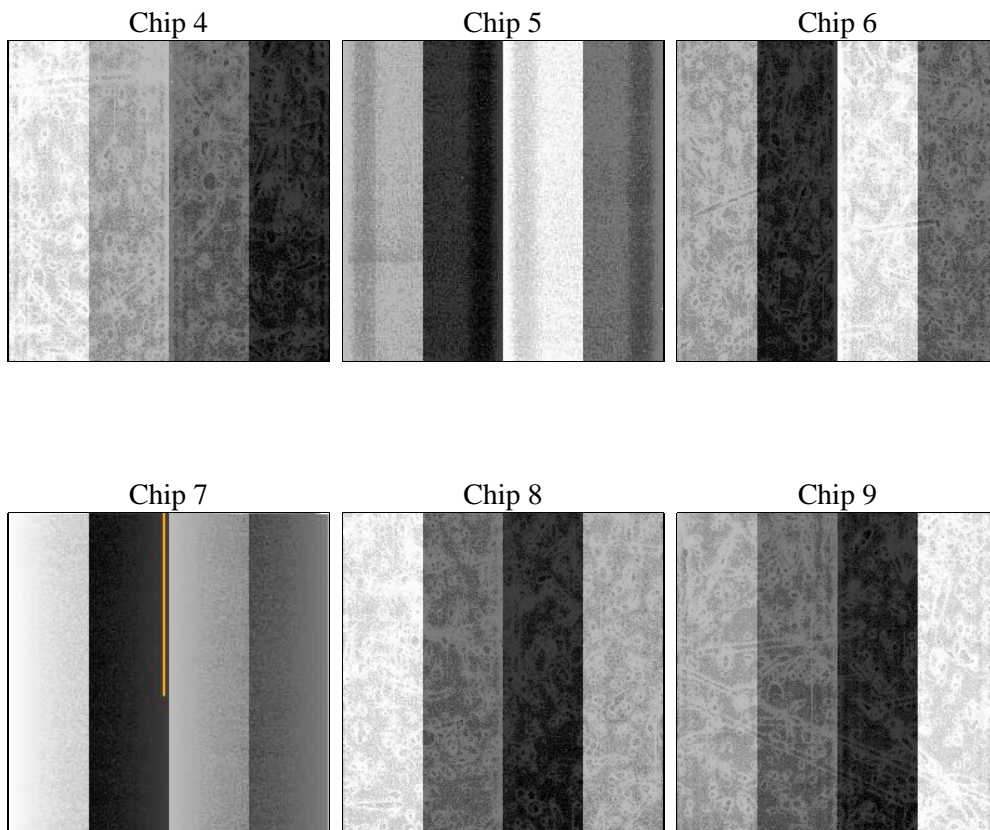
2 OBI

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	10.1.1	Processing system revision	ontime	4223.0618691295	Sum of GTIs [s]
caldbver	4.5.9	 	ontime4	1656.7134962976	Sum of GTIs [s]
date	2013-11-26T14:37:44	Date and time of file creation	ontime5	4501.7854563594	Sum of GTIs [s]
revision	6	Processing version of data	ontime6	1860.3555995077	Sum of GTIs [s]
			ontime7	4223.0618691295	Sum of GTIs [s]
			ontime8	1853.8735494316	Sum of GTIs [s]
			ontime9	1766.3655195087	Sum of GTIs [s]
			l1events	1468105	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	154084	383824	182509	396124	183264	168300	grade 0 events	77566	92143	90308	94882	90570	83209
rejected events	17935	35938	17534	23838	19521	17372		50%	24%	49%	23%	49%	49%
rejected %	11%	9%	9%	6%	10%	10%	grade 1 events	496	694	523	252	540	488
								0%	0%	0%	0%	0%	0%
							grade 2 events	23969	118912	28651	83124	28779	26376
								15%	30%	15%	20%	15%	15%
							grade 3 events	8404	23735	10151	37952	10199	9265
								5%	6%	5%	9%	5%	5%
							grade 4 events	8330	23758	10100	38193	10173	9350
								5%	6%	5%	9%	5%	5%
							grade 5 events	1126	7492	1424	5443	1454	1272
								0%	1%	0%	1%	0%	0%
							grade 6 events	18173	89338	25765	118135	24022	22728
								11%	23%	14%	29%	13%	13%
							grade 7 events	16020	27752	15587	18143	17527	15612
								10%	7%	8%	4%	9%	9%

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	60.04287376537404	Alternating exposures requested	N	N
[deg] Pointing Dec	0	49.99156135037938	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	310.7250618491767			
[mm] SIM focus pos	-0.684267	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	72183320.41504	72183319.64657401			
Observation start date	2000-04-15T10:55:20	2000-04-15T10:55:19			
[s] Observation end time (MET)	72226493.416623	72226492.648158			
Observation end date	2000-04-15T22:54:53	2000-04-15T22:54:52			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.11.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.2230618691295

A.2 Comments

Original bias files for CCDs 7 and 9 were corrupted in telemetry and no data were recoverable. The bias files for CCDs 7 and 9 used in this processing were created by using a bias file from another observation taken nearby in time and temperature (CCD 7 used obsid 413; CCD 9 used obsid 102), then scaling each node of the these donor bias files to the overclocking value appropriate for this observation. The procedure is documented at http://space.mit.edu/ASC/docs/bias_repair_5.5.pdf.