

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62340 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 20 2009

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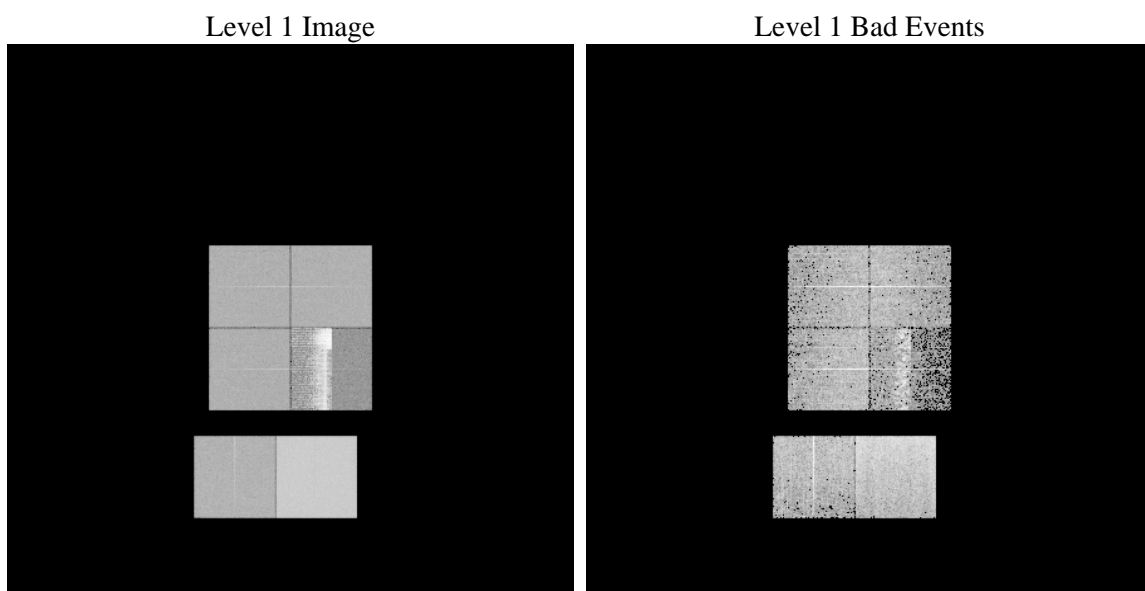
1 Front

seq_num	 	Sequence number
obs_id	62340	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
dec_targ	0.0	Observer's specified target Dec
ra_nom	270.0890953332	Nominal RA
dec_nom	66.986447143322	Nominal Dec
roll_nom	300.57904442034	Nominal Roll
revision	4	Processing version of data
ontime	4524.4723975733	Sum of GTIs [s]
livetime	4467.180803765	Livetime [s]
ontime0	1792.2937669009	Sum of GTIs [s]
ontime1	1831.186137259	Sum of GTIs [s]
ontime2	1711.5819188058	Sum of GTIs [s]
ontime3	700.06331471354	Sum of GTIs [s]
ontime6	1896.0069972426	Sum of GTIs [s]
ontime7	4524.4723975733	Sum of GTIs [s]
l2events	1134892	Number of level 2 events

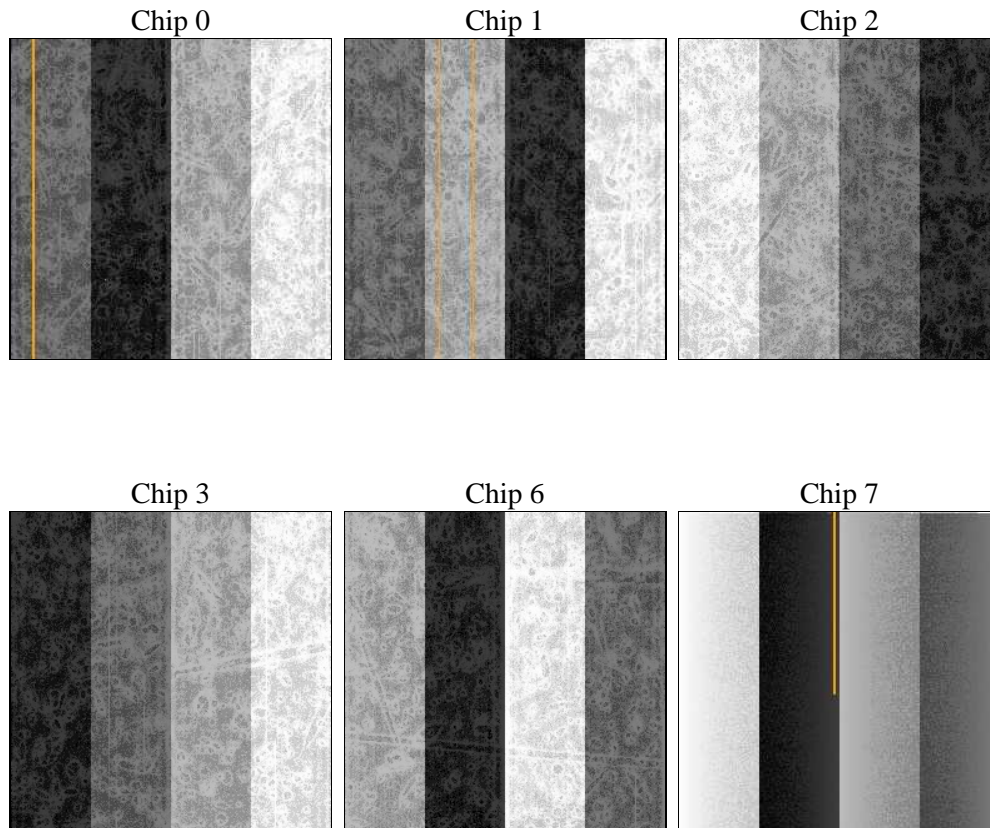
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.4 Events

obi_num	0	Obi number	sched_exp_time	0.0	Scheduled observation exposure time		
ascdsver	8.1.1	ASCDS version number					
caldsver	4.1.4	 					
date	2009-11-20T20:18:25	Date and time of file creation			ontime	4524.4723975733	Sum of GTIs [s]
revision	3	Processing version of data			ontime0	1792.2937669009	Sum of GTIs [s]
					ontime1	1831.186137259	Sum of GTIs [s]
					ontime2	1711.5819188058	Sum of GTIs [s]
					ontime3	700.06331471354	Sum of GTIs [s]
					ontime6	1896.0069972426	Sum of GTIs [s]
			ontime7	4524.4723975733	Sum of GTIs [s]		
			l1events	1497001	Number of level 1 events		

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	184615	188192	179786	260621	202177	481610
rejected events	24320	24201	26841	18506	28910	44477
rejected %	13%	12%	14%	7%	14%	9%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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
Pointing RA	0	270.0890953332031	Alternating exposures requested	N	N
Pointing Dec	0	66.98644714332163	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	300.5790444203433			
SIM focus pos (mm)	-0.782348	-1.038866356238299			
SIM defocus (mm)	0	0.4944702831659975			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	57159536.065	57159535.296609			
Observation start date	1999-10-24T13:38:56	1999-10-24T13:38:55			
Observation end time	57169335.065	57169334.296962			
Observation end date	1999-10-24T16:22:15	1999-10-24T16:22:14			
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.5244723975733

A.2 Comments

The front-end processor designated FEP0 suffered from a rare problem. As a result, half of the bias-map for Chip 3 was corrupted for part of the observation and many invalid events were telemetered for this region. The standard pipeline processing tools identify the problem and remove the spurious events from the Level 2 event file during the interval in question.

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The focal plane temperature is approximately -110C during this observation.

The ACIS CTI correction has not been calibrated at this temperature because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front- and back-illuminated chips are affected. However, a T_GAIN correction has been applied to the BI chip (ACIS-7) data included here.