

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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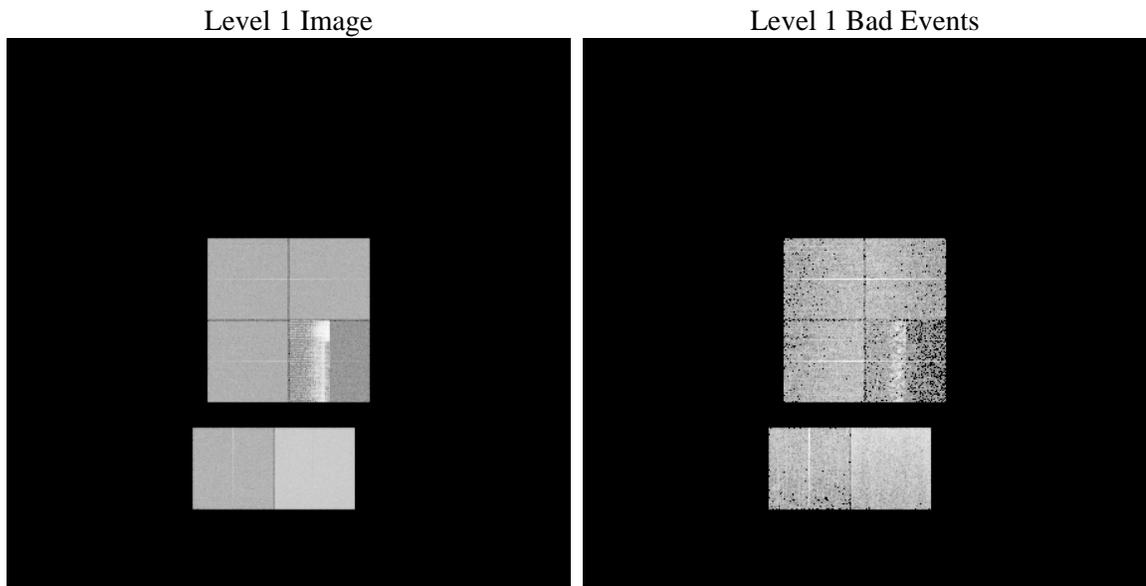
1 Front

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
dtycle	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

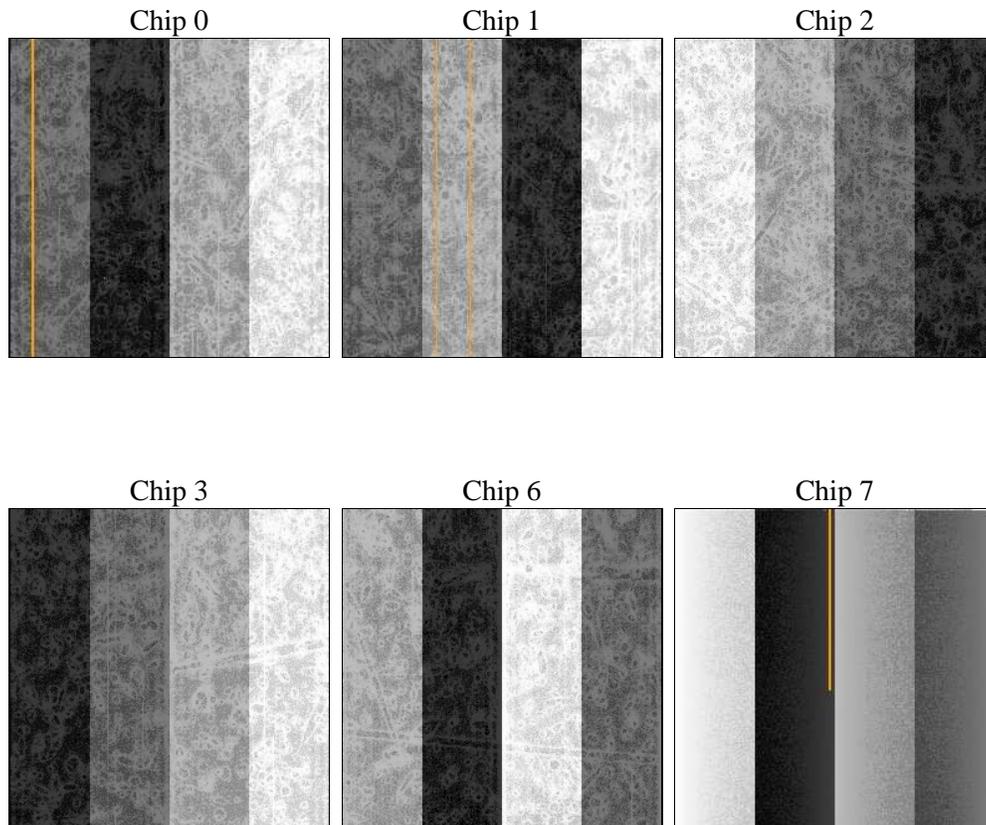
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	Scheduled observation exposure time
ascdsver	8.1.1	ASCDS version number	ontime	4524.4723975733	Sum of GTIs [s]
caldbver	4.1.4	 	ontime0	1792.2937669009	Sum of GTIs [s]
date	2009-11-20T20:18:25	Date and time of file creation	ontime1	1831.186137259	Sum of GTIs [s]
revision	3	Processing version of data	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		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	184615	188192	179786	260621	202177	481610	grade 0 events	59637	60800	49460	199952	49255	81448
rejected events	24320	24201	26841	18506	28910	44477		32%	32%	27%	76%	24%	16%
rejected %	13%	12%	14%	7%	14%	9%	grade 1 events	250	251	203	813	193	196
								0%	0%	0%	0%	0%	0%
							grade 2 events	59795	61130	66105	26236	79841	121760
								32%	32%	36%	10%	39%	25%
							grade 3 events	6381	6640	5171	2387	5120	37872
								3%	3%	2%	0%	2%	7%
							grade 4 events	6429	6592	5167	2323	5068	34896
								3%	3%	2%	0%	2%	7%
							grade 5 events	1592	1515	1516	1462	1591	6592
								0%	0%	0%	0%	0%	1%
							grade 6 events	28053	28829	27333	11217	33983	161157
								15%	15%	15%	4%	16%	33%
							grade 7 events	22478	22435	24831	16231	27126	37689
								12%	11%	13%	6%	13%	7%

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 FEPO 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.