

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62353 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 19 2009

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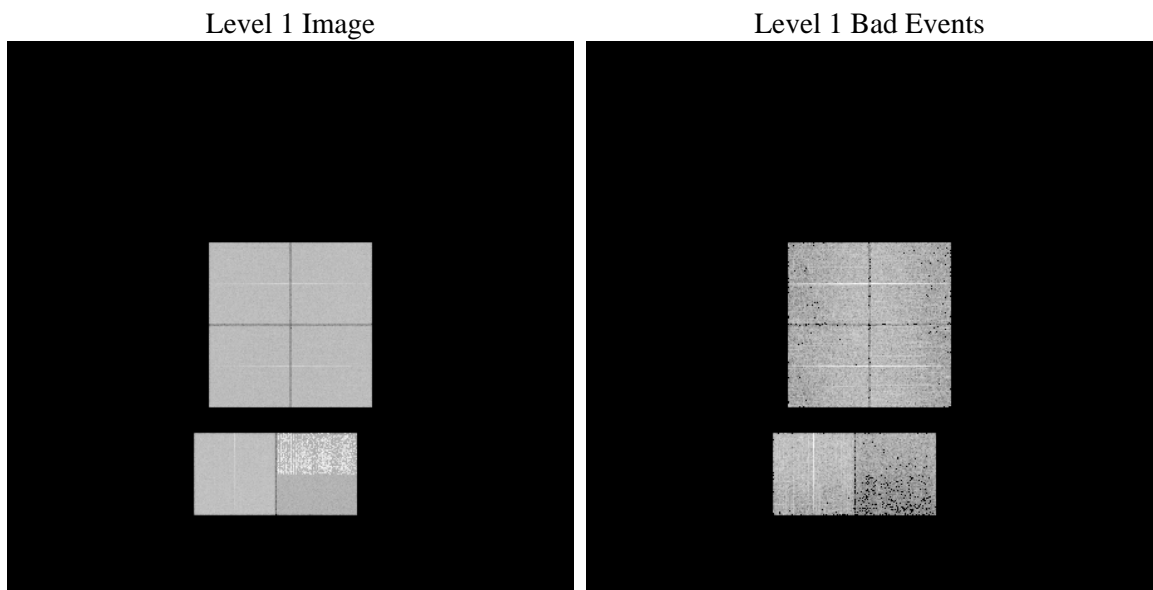
1 Front

seq_num	 	Sequence number
obs_id	62353	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	97.683725877054	Nominal RA
dec_nom	-50.673105955149	Nominal Dec
roll_nom	79.103691255754	Nominal Roll
revision	3	Processing version of data
ontime	1450.7702672035	Sum of GTIs [s]
livetime	1432.3997405311	Livetime [s]
ontime0	2150.4812285975	Sum of GTIs [s]
ontime1	2163.445568122	Sum of GTIs [s]
ontime2	2040.7689426243	Sum of GTIs [s]
ontime3	2069.455417946	Sum of GTIs [s]
ontime6	2306.0511388928	Sum of GTIs [s]
ontime7	1450.7702672035	Sum of GTIs [s]
l2events	1083766	Number of level 2 events

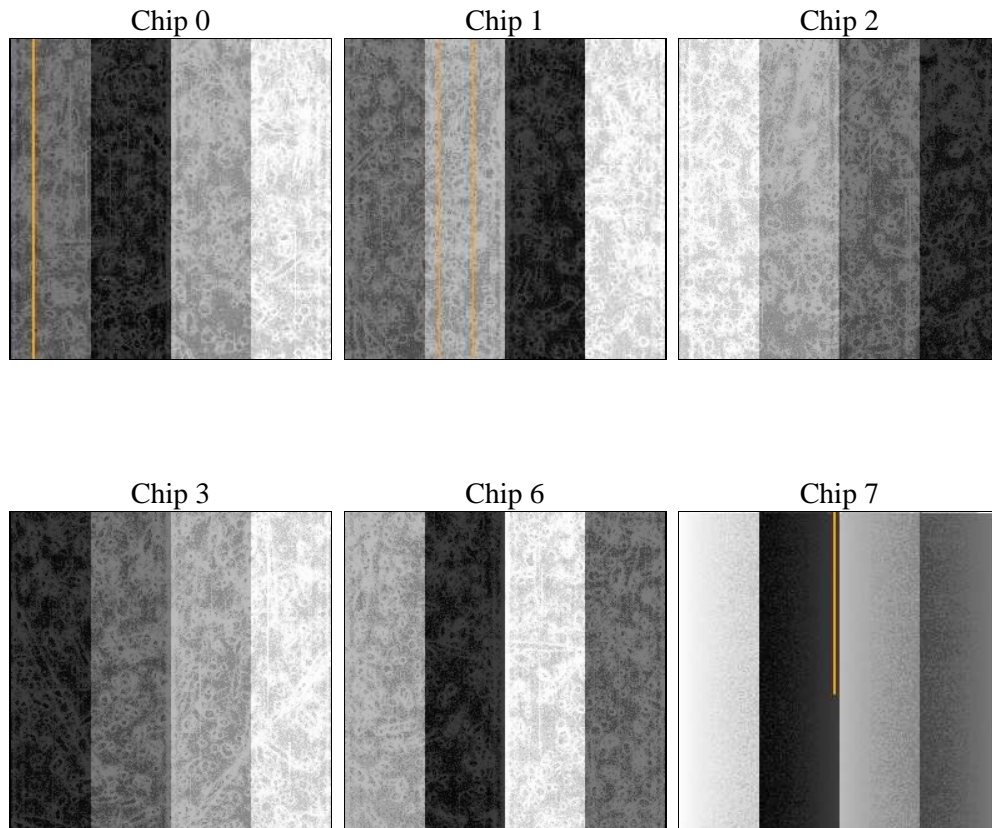
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.1.1	ASCDS version number	sched_exp_time	0.0
caldsver	4.1.4	 		Scheduled observation exposure time
date	2009-11-19T23:33:57	Date and time of file creation	ontime	1450.7702672035
revision	3	Processing version of data	ontime0	2150.4812285975
			ontime1	2163.445568122
			ontime2	2040.7689426243
			ontime3	2069.455417946
			ontime6	2306.0511388928
			ontime7	1450.7702672035
			l1events	1467384
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				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	226052	228081	217804	221253	253207	320987	grade 0 events	73473	72787	59401	62763	60304	193266
rejected events	32239	33140	33633	34881	40808	17246		32%	31%	27%	28%	23%	60%
rejected %	14%	14%	15%	15%	16%	5%	grade 1 events	350	307	263	288	245	1411
								0%	0%	0%	0%	0%	0%
							grade 2 events	72433	74093	80552	79476	99793	37863
								32%	32%	36%	35%	39%	11%
							grade 3 events	7828	7880	6286	6629	6277	11946
								3%	3%	2%	2%	2%	3%
							grade 4 events	7884	7945	6396	6687	6319	10638
								3%	3%	2%	3%	2%	3%
							grade 5 events	1875	1981	1905	1916	2080	3368
								0%	0%	0%	0%	0%	1%
							grade 6 events	33889	34306	33503	32934	42096	50028
								14%	15%	15%	14%	16%	15%
							grade 7 events	28320	28782	29498	30560	36093	12467
								12%	12%	13%	13%	14%	3%

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	97.6837258770538	Alternating exposures requested	N	N
Pointing Dec	0	-50.67310595514947	Primary exposure time	3.2	3.2
Pointing Roll	0.0	79.10369125575369			
SIM focus pos (mm)	-0.782348	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	56018520.373971	56018519.605503			
Observation start date	1999-10-11T08:42:00	1999-10-11T08:41:59			
Observation end time	56028321.424324	56028320.655856			
Observation end date	1999-10-11T11:25:21	1999-10-11T11:25:20			
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	1.4507702672035

A.2 Comments

The front-end processor designated FEP0 suffered from a rare problem. As a result, the top half of the bias-map for Chip 7 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.