

V&V Reference Report

L2 ASCDS Version : 8.3.2.1

Observation 62378 - L2 Version 4

Chandra X-Ray Center

L2 Processing Date : Sep 28 2010

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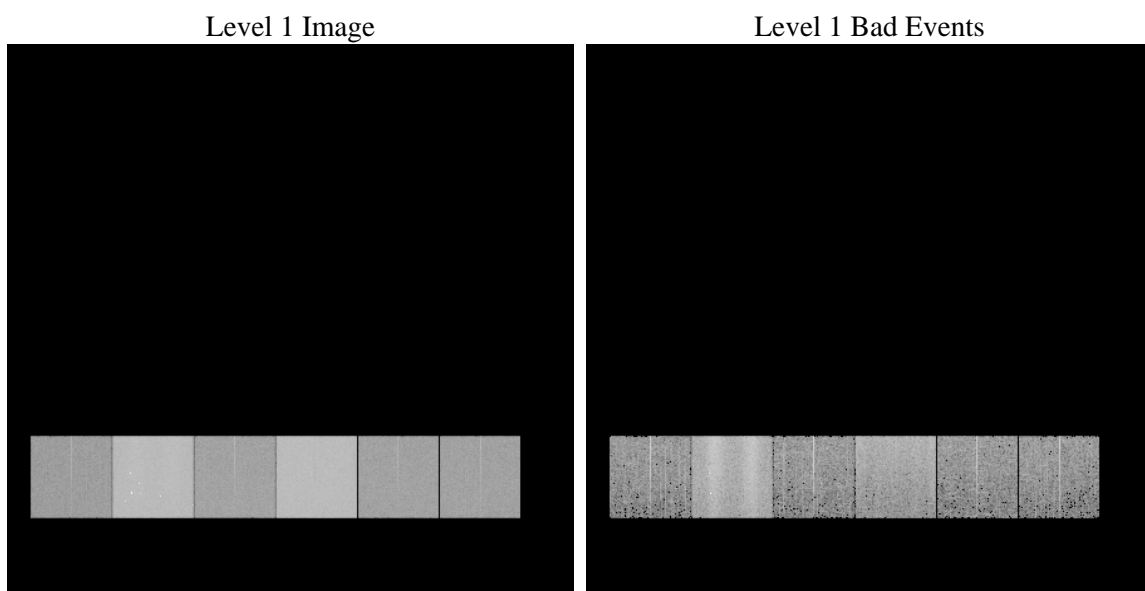
1 Front

seq_num	 	Sequence number
obs_id	62378	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
dec_targ	0.0	Observer's specified target Dec
ra_nom	112.07464922491	Nominal RA
dec_nom	80.317672594128	Nominal Dec
roll_nom	73.915229207382	Nominal Roll
revision	4	Processing version of data
ontime	3858.2993553132	Sum of GTIs [s]
livetime	3809.4432456873	Livetime [s]
ontime4	1399.9484124631	Sum of GTIs [s]
ontime5	4117.5791342631	Sum of GTIs [s]
ontime6	1613.980142951	Sum of GTIs [s]
ontime7	3858.2993553132	Sum of GTIs [s]
ontime8	1563.6488765106	Sum of GTIs [s]
ontime9	1591.2519026995	Sum of GTIs [s]
l2events	1280284	Number of level 2 events

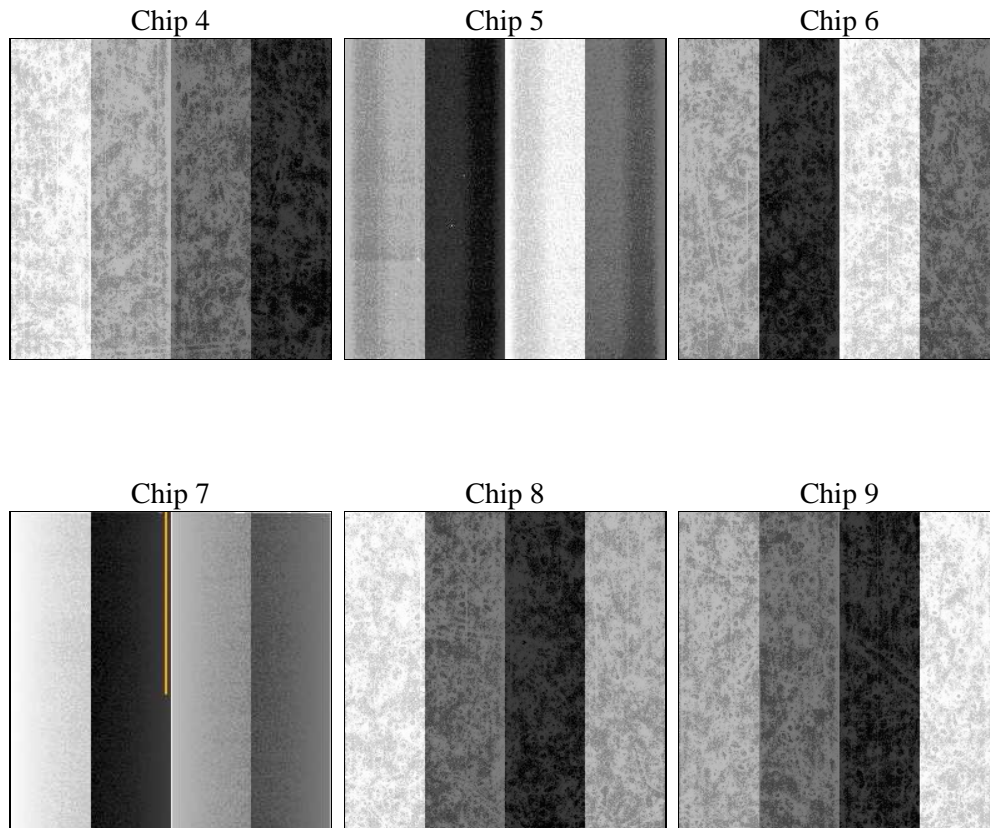
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.3.2.1	ASCDS version number	sched_exp_time	0.0
caldsver	4.3.1	 		
date	2010-09-28T20:13:48	Date and time of file creation	ontime	3858.2993553132
revision	4	Processing version of data	ontime4	1399.9484124631
			ontime5	4117.5791342631
			ontime6	1613.980142951
			ontime7	3858.2993553132
			ontime8	1563.6488765106
			ontime9	1591.2519026995
			l1events	1521103

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	147717	420898	179400	426836	174889	171363	grade 0 events	29442	38485	41817	68661	53229	45999
rejected events	26865	71994	27666	44952	26510	25901		19%	9%	23%	16%	30%	26%
rejected %	18%	17%	15%	10%	15%	15%	grade 1 events	143	287	175	150	238	188
								0%	0%	0%	0%	0%	0%
							grade 2 events	63954	135690	71621	107705	58529	63273
								43%	32%	39%	25%	33%	36%
							grade 3 events	3080	18086	4364	33065	5666	4846
								2%	4%	2%	7%	3%	2%
							grade 4 events	2982	15573	4409	29426	5609	4940
								2%	3%	2%	6%	3%	2%
							grade 5 events	1192	7145	1452	6000	1562	1460
								0%	1%	0%	1%	0%	0%
							grade 6 events	22218	143544	30453	145583	26654	27277
								15%	34%	16%	34%	15%	15%
							grade 7 events	24706	62088	25109	36246	23402	23380
								16%	14%	13%	8%	13%	13%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	0	112.0746492249095	Alternating exposures requested	N	N
Pointing Dec	0	80.31767259412818	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	73.91522920738227			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	55092065.938	55092065.122156			
Observation start date	1999-09-30T15:21:06	1999-09-30T15:21:05			
Observation end time	55101725.538	55101724.722504			
Observation end date	1999-09-30T18:02:06	1999-09-30T18:02:04			
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)	2010.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.8582993553132

A.2 Comments

The focal plane temperature is approximately -110 C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present.

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 chips (ACIS-5 and ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.