

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62329 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 21 2009

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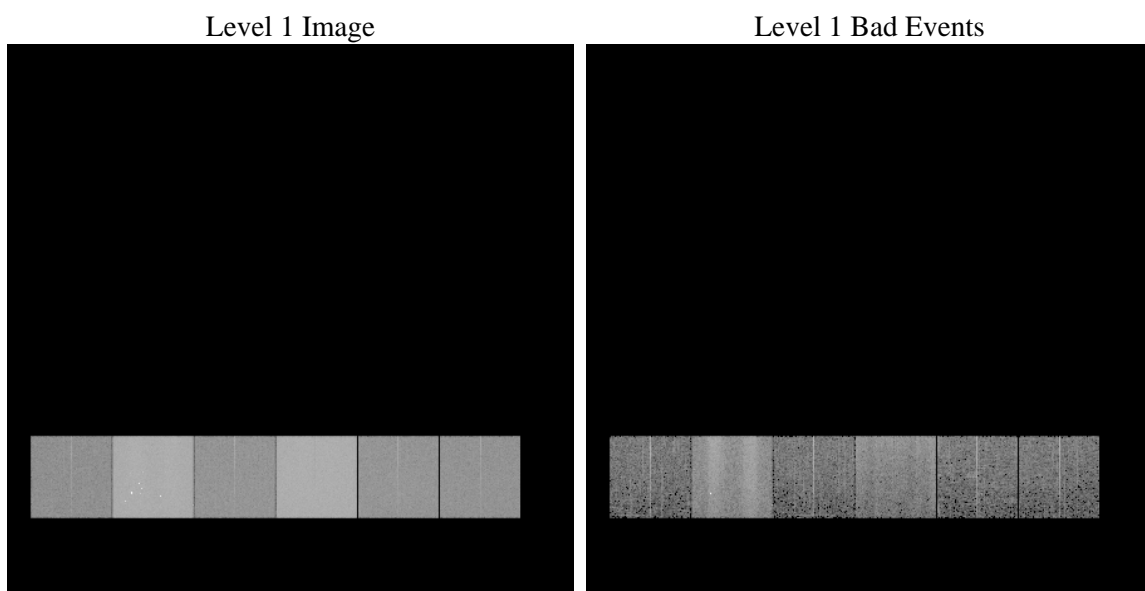
1 Front

seq_num	 	Sequence number
obs_id	62329	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	83.816767174433	Nominal RA
dec_nom	-5.3889264235536	Nominal Dec
roll_nom	67.704368434662	Nominal Roll
revision	4	Processing version of data
ontime	4021.689692311	Sum of GTIs [s]
livetime	3970.7646358561	Livetime [s]
ontime4	1484.3950661644	Sum of GTIs [s]
ontime5	4255.4726516679	Sum of GTIs [s]
ontime6	1691.8215767071	Sum of GTIs [s]
ontime7	4021.689692311	Sum of GTIs [s]
ontime8	1684.7429588139	Sum of GTIs [s]
ontime9	1639.9649864659	Sum of GTIs [s]
l2events	1287404	Number of level 2 events

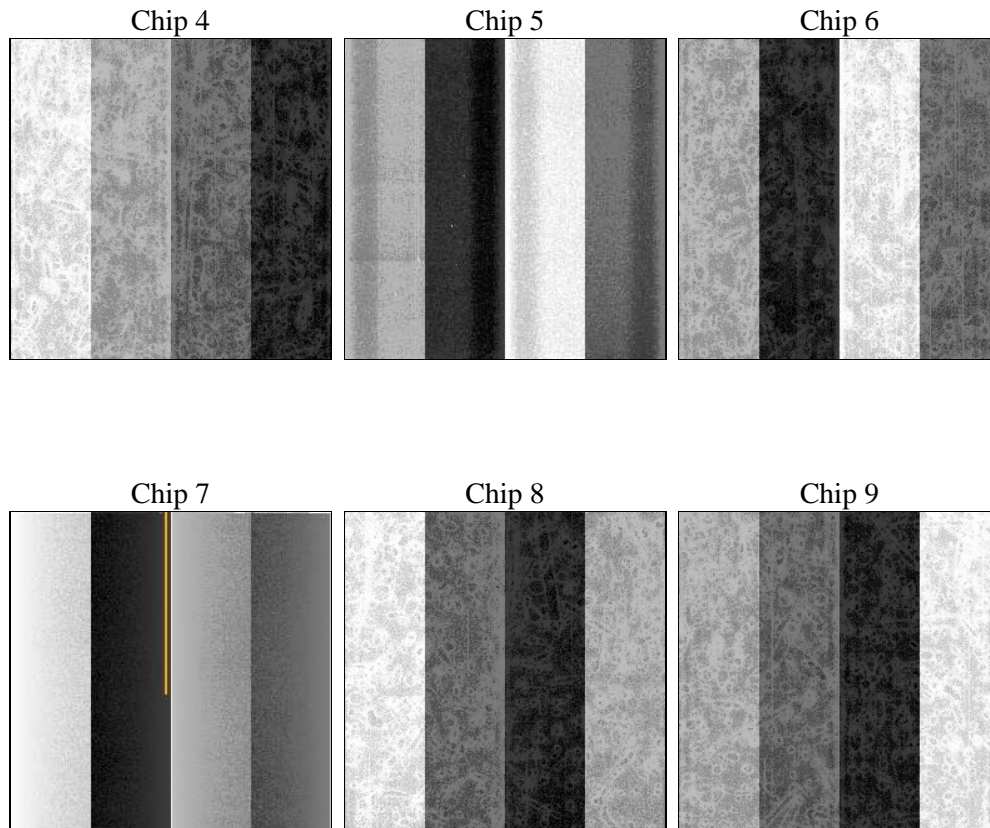
2 OBI

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	 		
date	2009-11-21T12:11:05	Date and time of file creation	ontime	4021.689692311
revision	3	Processing version of data	ontime4	1484.3950661644
			ontime5	4255.4726516679
			ontime6	1691.8215767071
			ontime7	4021.689692311
			ontime8	1684.7429588139
			ontime9	1639.9649864659
			l1events	1520535

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	148887	417849	178936	424653	182292	167918	grade 0 events	28664	39011	41855	68160	55246	44169
rejected events	25186	69404	25882	42660	26367	23975		19%	9%	23%	16%	30%	26%
rejected %	16%	16%	14%	10%	14%	14%	grade 1 events	119	242	176	159	226	172
								0%	0%	0%	0%	0%	0%
							grade 2 events	66649	134939	72867	107480	61688	63539
								44%	32%	40%	25%	33%	37%
							grade 3 events	2936	17972	4294	33365	5816	4627
								1%	4%	2%	7%	3%	2%
							grade 4 events	2865	15253	4159	28926	5850	4551
								1%	3%	2%	6%	3%	2%
							grade 5 events	1326	7264	1563	6111	1581	1451
								0%	1%	0%	1%	0%	0%
							grade 6 events	22587	141789	30195	144375	27325	27057
								15%	33%	16%	33%	14%	16%
							grade 7 events	23741	61379	23827	36077	24560	22352
								15%	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	83.81676717443314	Alternating exposures requested	N	N
Pointing Dec	0	-5.388926423553626	Primary exposure time	3.2	3.2
Pointing Roll	0.0	67.70436843466197			
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	57835558.439461	57835557.670999			
Observation start date	1999-11-01T09:25:58	1999-11-01T09:25:57			
Observation end time	57845357.439815	57845356.671353			
Observation end date	1999-11-01T12:09:17	1999-11-01T12:09:16			
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	4.021689692311

A.2 Comments

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 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.