

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62312 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 21 2009

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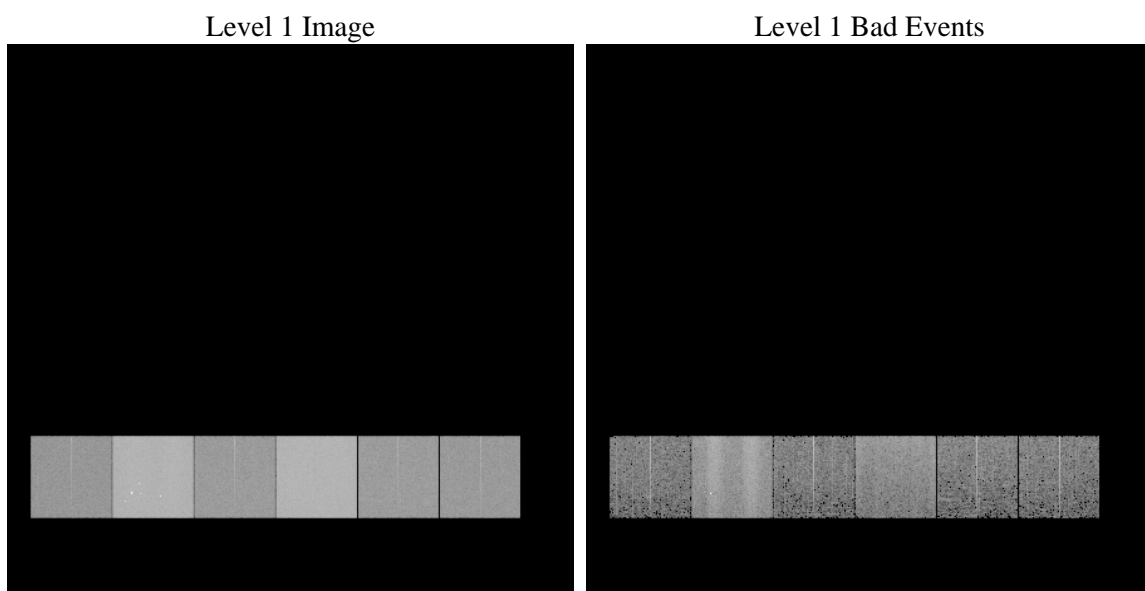
1 Front

seq_num	 	Sequence number
obs_id	62312	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	117.30390920388	Nominal RA
dec_nom	-37.166531807574	Nominal Dec
roll_nom	62.714958081795	Nominal Roll
revision	4	Processing version of data
ontime	3970.6927119195	Sum of GTIs [s]
livetime	3920.4134099371	Livetime [s]
ontime4	1513.5643363595	Sum of GTIs [s]
ontime5	4233.1725509986	Sum of GTIs [s]
ontime6	1688.5804966986	Sum of GTIs [s]
ontime7	3970.6927119195	Sum of GTIs [s]
ontime8	1705.0488788188	Sum of GTIs [s]
ontime9	1643.2058867589	Sum of GTIs [s]
l2events	1291095	Number of level 2 events

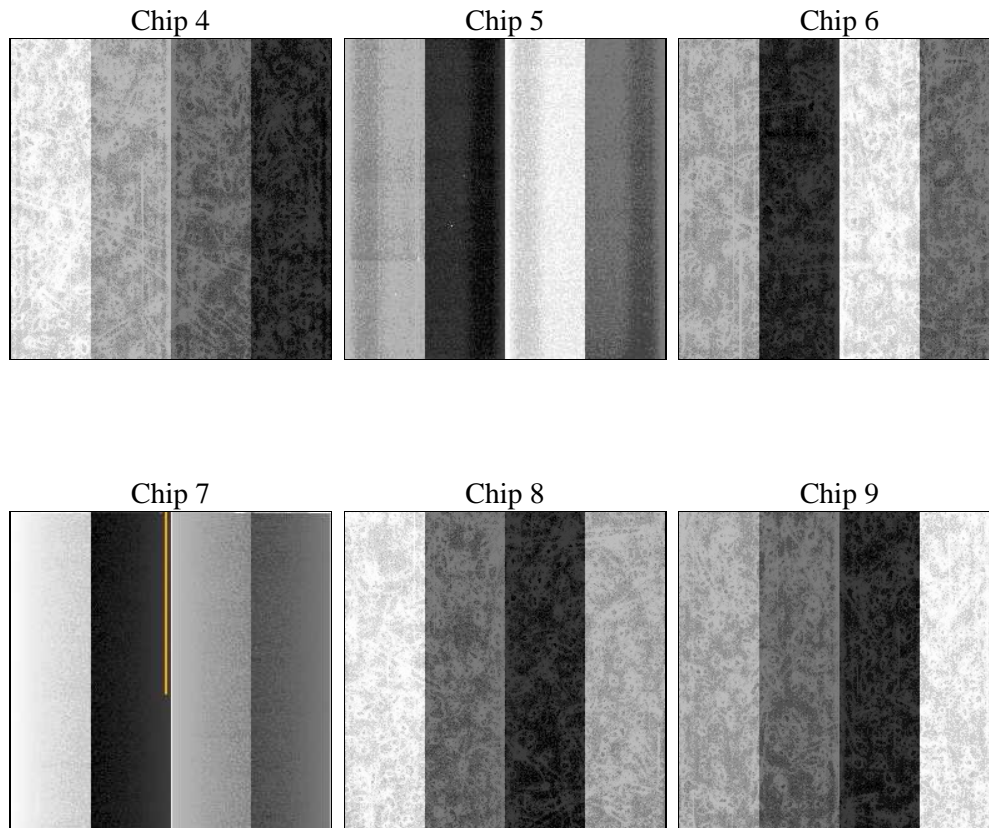
2 OBI

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	2009-11-21T14:30:24	Date and time of file creation	ontime	3970.6927119195
revision	3	Processing version of data	ontime4	1513.5643363595
			ontime5	4233.1725509986
			ontime6	1688.5804966986
			ontime7	3970.6927119195
			ontime8	1705.0488788188
			ontime9	1643.2058867589
			l1events	1520831

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	152355	412395	180091	420828	184735	170427	grade 0 events	29689	37830	41384	67213	55356	44773
rejected events	25028	67995	26129	42316	26271	24555		19%	9%	22%	15%	29%	26%
rejected %	16%	16%	14%	10%	14%	14%	grade 1 events	134	208	198	171	236	198
								0%	0%	0%	0%	0%	0%
							grade 2 events	67992	133143	73383	106146	63271	64203
								44%	32%	40%	25%	34%	37%
							grade 3 events	3020	17917	4264	32480	5818	4627
								1%	4%	2%	7%	3%	2%
							grade 4 events	3025	15555	4356	29324	5785	4647
								1%	3%	2%	6%	3%	2%
							grade 5 events	1252	7053	1434	6168	1694	1456
								0%	1%	0%	1%	0%	0%
							grade 6 events	23601	140215	30575	143647	28494	27622
								15%	34%	16%	34%	15%	16%
							grade 7 events	23642	60474	24497	35679	24081	22901
								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	117.3039092038791	Alternating exposures requested	N	N
Pointing Dec	0	-37.16653180757392	Primary exposure time	3.2	3.2
Pointing Roll	0.0	62.71495808179489			
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	58974626.630585	58974625.862131			
Observation start date	1999-11-14T13:50:27	1999-11-14T13:50:25			
Observation end time	58984425.630938	58984424.862485			
Observation end date	1999-11-14T16:33:46	1999-11-14T16:33:44			
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.9706927119195

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.