

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62280 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 25 2009

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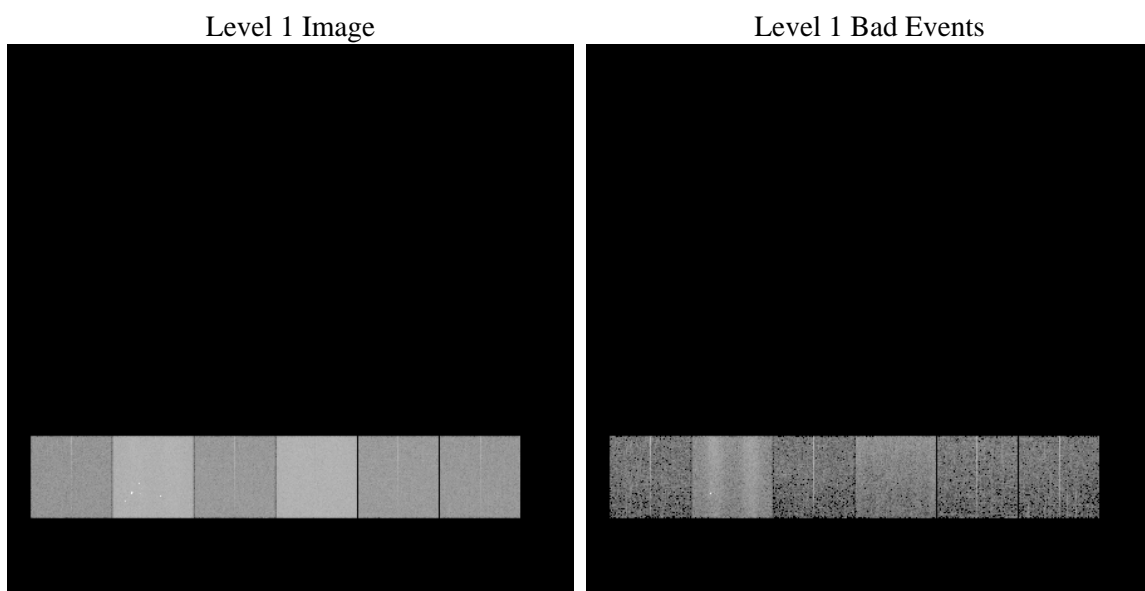
1 Front

seq_num	 	Sequence number
obs_id	62280	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	163.16746918085	Nominal RA
dec_nom	57.514049970054	Nominal Dec
roll_nom	82.581878882694	Nominal Roll
revision	4	Processing version of data
ontime	2764.190410018	Sum of GTIs [s]
livetime	2729.1885666507	Livetime [s]
ontime4	1026.8744641617	Sum of GTIs [s]
ontime5	2939.6143694073	Sum of GTIs [s]
ontime6	1147.3270351663	Sum of GTIs [s]
ontime7	2764.190410018	Sum of GTIs [s]
ontime8	1186.2194653898	Sum of GTIs [s]
ontime9	1127.8808250651	Sum of GTIs [s]
l2events	896235	Number of level 2 events

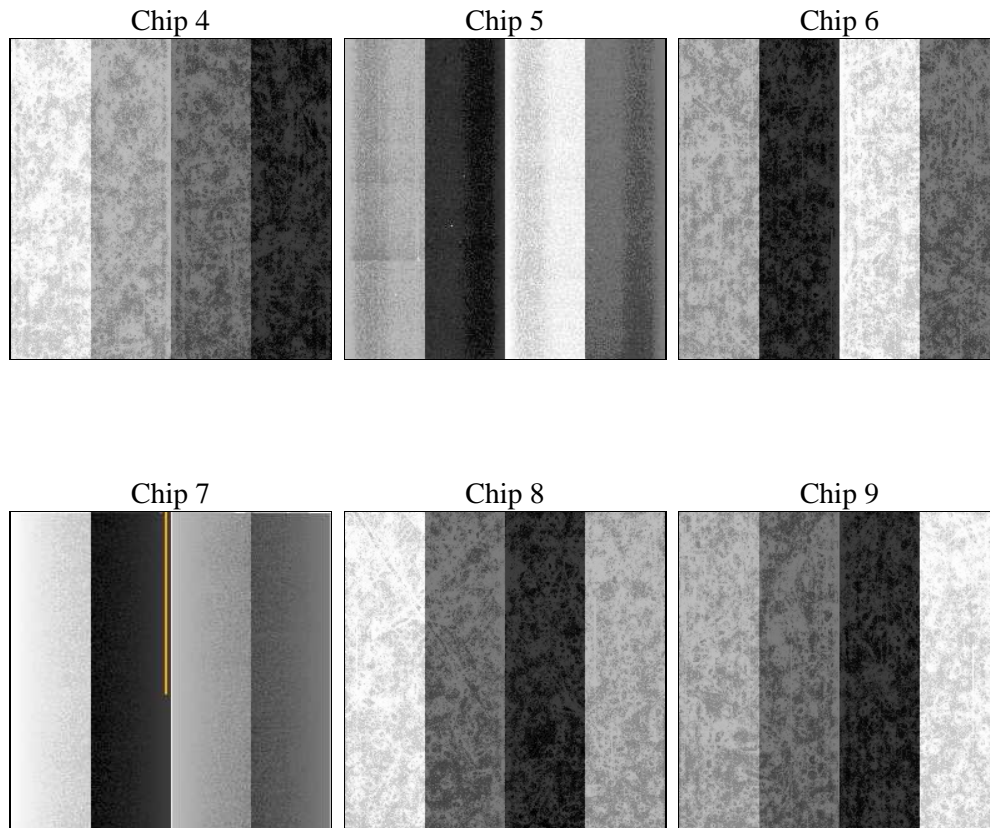
2 OBI

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	2009-11-25T14:31:57	Date and time of file creation	ontime	2764.190410018
revision	3	Processing version of data	ontime4	1026.8744641617
			ontime5	2939.6143694073
			ontime6	1147.3270351663
			ontime7	2764.190410018
			ontime8	1186.2194653898
			ontime9	1127.8808250651
			l1events	1062535

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	105557	288688	123427	294585	131170	119108	grade 0 events	20114	25556	28531	46849	39090	30632
rejected events	18324	49131	18042	30302	19487	18149		19%	8%	23%	15%	29%	25%
rejected %	17%	17%	14%	10%	14%	15%	grade 1 events	98	142	117	132	178	135
								0%	0%	0%	0%	0%	0%
							grade 2 events	46705	91982	49747	74332	44126	44707
								44%	31%	40%	25%	33%	37%
							grade 3 events	2152	12111	2889	22362	4164	3142
								2%	4%	2%	7%	3%	2%
							grade 4 events	2085	10570	2977	20080	4246	3325
								1%	3%	2%	6%	3%	2%
							grade 5 events	875	5058	1020	4228	1133	1059
								0%	1%	0%	1%	0%	0%
							grade 6 events	16177	99338	21241	100660	20057	19153
								15%	34%	17%	34%	15%	16%
							grade 7 events	17351	43931	16905	25942	18176	16955
								16%	15%	13%	8%	13%	14%

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	163.1674691808482	Alternating exposures requested	N	N
Pointing Dec	0	57.51404997005395	Primary exposure time	3.2	3.2
Pointing Roll	0.0	82.58187888269381			
SIM focus pos (mm)	-0.684267	-1.038866356238299			
SIM defocus (mm)	0	0.4944702831659975			
SIM translation stage pos (mm)	-190.132523	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	61032566.355289	61032565.586524			
Observation start date	1999-12-08T09:29:26	1999-12-08T09:29:25			
Observation end time	61039866.405556	61039865.636788			
Observation end date	1999-12-08T11:31:06	1999-12-08T11:31:05			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2010.01.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.764190410018

A.2 Comments

The focal plane temperature is approximately -110C 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.