

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62286 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 25 2009

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

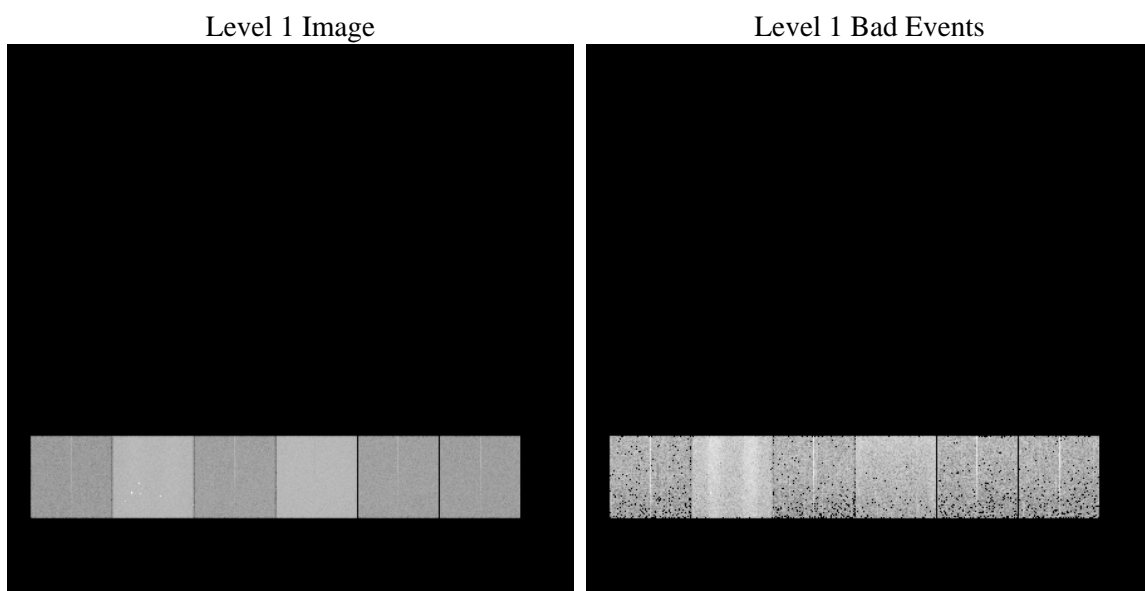
1 Front

seq_num	 	Sequence number
obs_id	62286	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	189.98280365531	Nominal RA
dec_nom	-33.964501327884	Nominal Dec
roll_nom	85.503198994333	Nominal Roll
revision	4	Processing version of data
ontime	2734.5912280083	Sum of GTIs [s]
livetime	2699.9641873061	Livetime [s]
ontime4	1039.6560709253	Sum of GTIs [s]
ontime5	2916.1280143335	Sum of GTIs [s]
ontime6	1173.5949206725	Sum of GTIs [s]
ontime7	2734.5912280083	Sum of GTIs [s]
ontime8	1166.0976412371	Sum of GTIs [s]
ontime9	1136.723081179	Sum of GTIs [s]
l2events	901263	Number of level 2 events

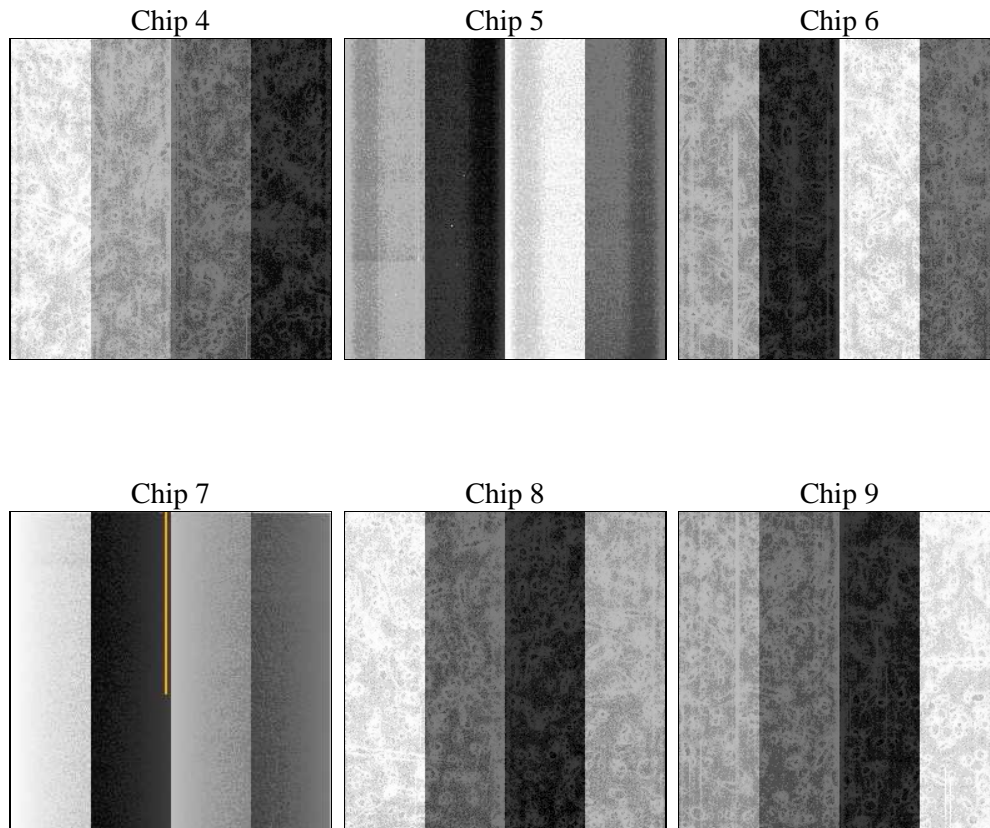
2 OBI

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	2009-11-25T14:22:31	Date and time of file creation	ontime	2734.5912280083
revision	3	Processing version of data	ontime4	1039.6560709253
			ontime5	2916.1280143335
			ontime6	1173.5949206725
			ontime7	2734.5912280083
			ontime8	1166.0976412371
			ontime9	1136.723081179
			l1events	1064535
				Number of level 1 events

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	106931	288076	127722	293122	128499	120185	grade 0 events	20522	27402	30159	48613	37625	30916
rejected events	18353	46584	19483	28190	18557	17973		19%	9%	23%	16%	29%	25%
rejected %	17%	16%	15%	9%	14%	14%	grade 1 events	110	134	138	112	195	147
								0%	0%	0%	0%	0%	0%
							grade 2 events	47380	92996	50918	73716	44178	45602
								44%	32%	39%	25%	34%	37%
							grade 3 events	2053	12761	3082	22942	3901	3156
								1%	4%	2%	7%	3%	2%
							grade 4 events	2094	11006	3101	20718	4001	3222
								1%	3%	2%	7%	3%	2%
							grade 5 events	877	4777	1048	3942	1158	1054
								0%	1%	0%	1%	0%	0%
							grade 6 events	16529	97327	21335	98943	20237	19316
								15%	33%	16%	33%	15%	16%
							grade 7 events	17366	41673	17941	24136	17204	16772
								16%	14%	14%	8%	13%	13%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
Pointing RA	0	189.9828036553127
Pointing Dec	0	-33.9645013278838
Pointing Roll	0.0	85.50319899433325
SIM focus pos (mm)	-0.684267	-0.7809083437167272
SIM defocus (mm)	0	0.7524282956875696
SIM translation stage pos (mm)	-190.132523	250.4635187648994
SIM translation stage offset (mm)	0	-0.007540371344731511
Observation start time	60759139.395	60759138.626627
Observation start date	1999-12-05T05:32:19	1999-12-05T05:32:18
Observation end time	60802060.247	60802059.478182
Observation end date	1999-12-05T17:27:40	1999-12-05T17:27:39
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
Primary exposure time	0.000000	3.2

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	2.7345912280083

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.