

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62259 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 26 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

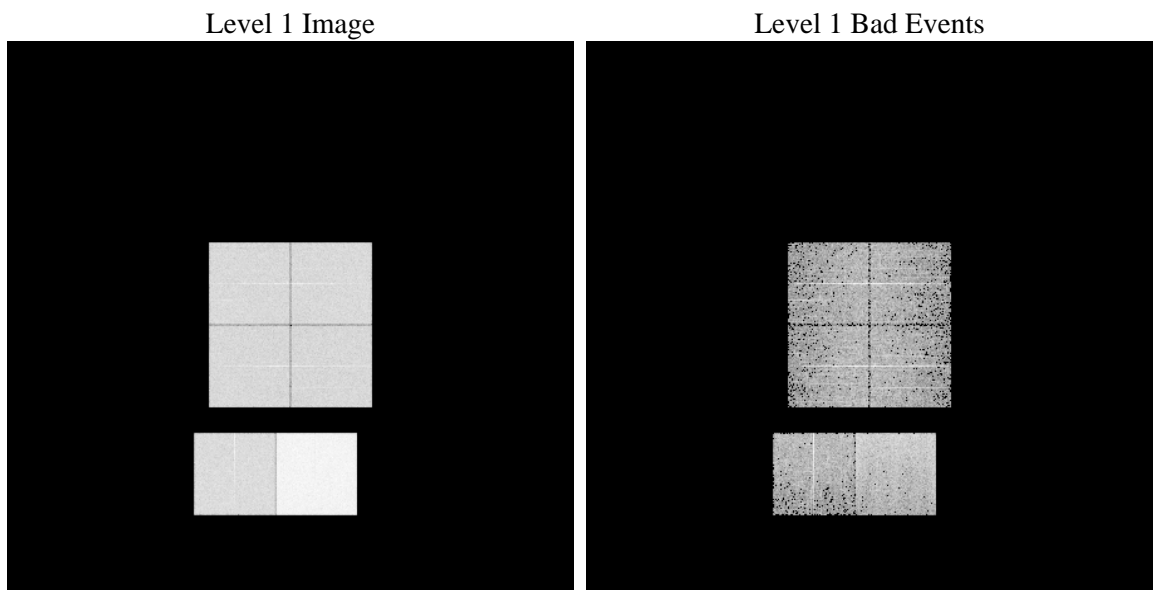
1 Front

seq_num	 	Sequence number
obs_id	62259	Observation id
title	ACIS-012367 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	108.05056650813	Nominal RA
dec_nom	-65.176967951556	Nominal Dec
roll_nom	17.902601834915	Nominal Roll
revision	4	Processing version of data
ontime	3520.0434275493	Sum of GTIs [s]
livetime	3475.470518154	Livetime [s]
ontime0	1406.9059508517	Sum of GTIs [s]
ontime1	1419.1257315949	Sum of GTIs [s]
ontime2	1342.0852604359	Sum of GTIs [s]
ontime3	1337.9766114354	Sum of GTIs [s]
ontime6	1509.956881918	Sum of GTIs [s]
ontime7	3520.0434275493	Sum of GTIs [s]
l2events	920126	Number of level 2 events

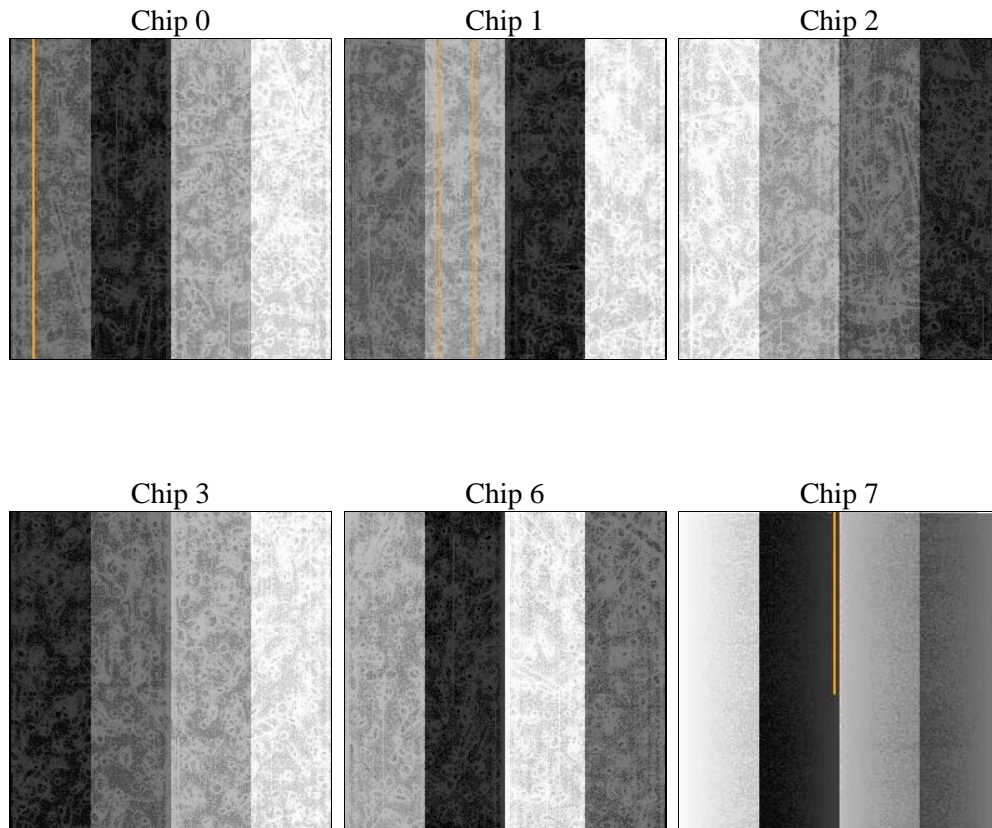
2 OBI

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
caldbver	4.1.4	 		Scheduled observation exposure time
date	2009-11-26T09:53:26	Date and time of file creation	ontime	3520.0434275493
revision	3	Processing version of data	ontime0	1406.9059508517
			ontime1	1419.1257315949
			ontime2	1342.0852604359
			ontime3	1337.9766114354
			ontime6	1509.956881918
			ontime7	3520.0434275493
			l1events	1060859
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	139408	140692	135188	133573	154462	357536	grade 0 events	44573	44760	36157	37217	37238	59847
rejected events	18549	18140	20003	19263	21465	33697		31%	31%	26%	27%	24%	16%
rejected %	13%	12%	14%	14%	13%	9%	grade 1 events	181	172	162	157	150	144
								0%	0%	0%	0%	0%	0%
							grade 2 events	45850	46683	50945	49250	61860	90661
								32%	33%	37%	36%	40%	25%
							grade 3 events	4689	4867	3764	3791	3951	28336
								3%	3%	2%	2%	2%	7%
							grade 4 events	4704	4826	3754	3907	3914	25602
								3%	3%	2%	2%	2%	7%
							grade 5 events	1211	1177	1098	1145	1336	4881
								0%	0%	0%	0%	0%	1%
							grade 6 events	21305	21416	20863	20145	26034	119711
								15%	15%	15%	15%	16%	33%
							grade 7 events	16895	16791	18445	17961	19979	28354
								12%	11%	13%	13%	12%	7%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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	108.0505665081322	Alternating exposures requested	N	N
Pointing Dec	0	-65.17696795155587	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	17.90260183491531			
SIM focus pos (mm)	-0.782348	-0.6828225247311905			
SIM defocus (mm)	0	0.8505141146731063			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	62179299.496	62179298.72804			
Observation start date	1999-12-21T16:01:39	1999-12-21T16:01:38			
Observation end time	62186599.547	62186598.778304			
Observation end date	1999-12-21T18:03:20	1999-12-21T18:03:18			
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	3.5200434275493

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.