

V&V Reference Report

L2 ASCDS Version : 8.1.1

Observation 62253 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Nov 26 2009

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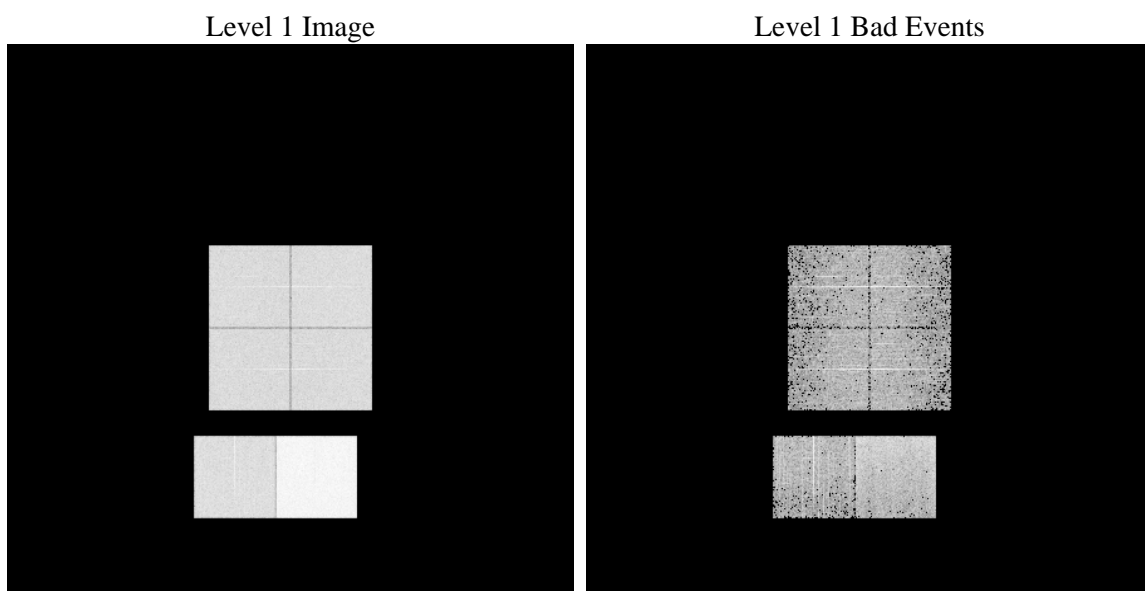
1 Front

seq_num	 	Sequence number
obs_id	62253	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	338.02193581682	Nominal RA
dec_nom	-35.02291609668	Nominal Dec
roll_nom	276.40606387755	Nominal Roll
revision	4	Processing version of data
ontime	3464.0675583035	Sum of GTIs [s]
livetime	3420.2034490692	Livetime [s]
ontime0	1412.5501454622	Sum of GTIs [s]
ontime1	1464.4478554949	Sum of GTIs [s]
ontime2	1364.7755903304	Sum of GTIs [s]
ontime3	1363.8525252268	Sum of GTIs [s]
ontime6	1503.4224155694	Sum of GTIs [s]
ontime7	3464.0675583035	Sum of GTIs [s]
l2events	922450	Number of level 2 events

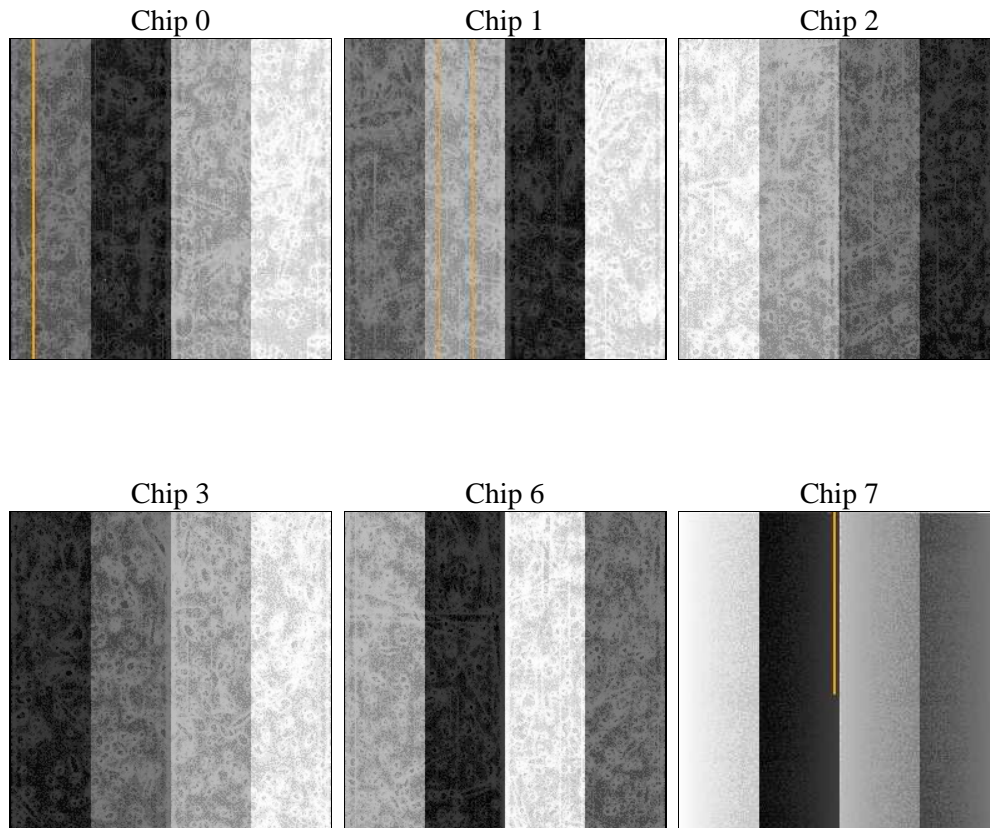
2 OBI

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	2009-11-26T10:47:23	Date and time of file creation	ontime	3464.0675583035
revision	3	Processing version of data	ontime0	1412.5501454622
			ontime1	1464.4478554949
			ontime2	1364.7755903304
			ontime3	1363.8525252268
			ontime6	1503.4224155694
			ontime7	3464.0675583035
			l1events	1060589
				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	138426	144324	135886	136620	154990	350343	grade 0 events	44426	46788	37338	39173	37371	58491
rejected events	17457	18055	18848	19078	22324	32870		32%	32%	27%	28%	24%	16%
rejected %	12%	12%	13%	13%	14%	9%	grade 1 events	190	178	140	186	138	145
								0%	0%	0%	0%	0%	0%
							grade 2 events	45747	47671	51118	49733	61642	89073
								33%	33%	37%	36%	39%	25%
							grade 3 events	4762	5080	3944	3979	3837	27598
								3%	3%	2%	2%	2%	7%
							grade 4 events	4820	4820	3978	4011	3914	24451
								3%	3%	2%	2%	2%	6%
							grade 5 events	1130	1145	1101	1157	1279	4738
								0%	0%	0%	0%	0%	1%
							grade 6 events	21214	21910	20930	20646	25902	117860
								15%	15%	15%	15%	16%	33%
							grade 7 events	16137	16732	17337	17735	20907	27987
								11%	11%	12%	12%	13%	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	338.0219358168243	Alternating exposures requested	N	N
Pointing Dec	0	-35.02291609668016	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	276.4060638775501			
SIM focus pos (mm)	-0.782348	-1.428180813131781			
SIM defocus (mm)	0	0.1051558262725154			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	62579615.311	62579614.542542			
Observation start date	1999-12-26T07:13:35	1999-12-26T07:13:34			
Observation end time	62587294.611	62587293.84282			
Observation end date	1999-12-26T09:21:35	1999-12-26T09:21:33			
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)	2010.01.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.4640675583035

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.