

# V&V Reference Report

## L2 ASCDS Version : 8.3.2.1

Observation 62371 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Sep 28 2010

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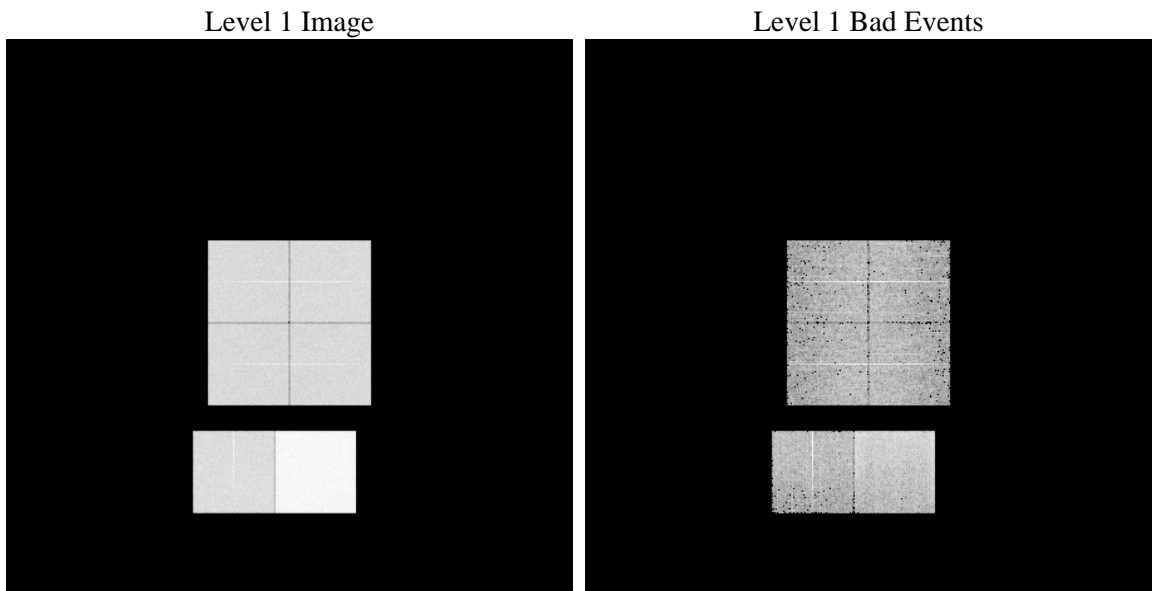
# 1 Front

seq_num	&#160	Sequence number
obs_id	62371	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtcycle	0	&#160
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	112.1515345033	Nominal RA
dec_nom	80.027719088987	Nominal Dec
roll_nom	75.741888727502	Nominal Roll
revision	3	Processing version of data
ontime	4825.0377536938	Sum of GTIs [s]
livetime	4763.9402203676	Livetime [s]
ontime0	1817.4188046306	Sum of GTIs [s]
ontime1	1882.28070461	Sum of GTIs [s]
ontime2	1775.3674543425	Sum of GTIs [s]
ontime3	1781.8904845566	Sum of GTIs [s]
ontime6	1978.214466773	Sum of GTIs [s]
ontime7	4825.0377536938	Sum of GTIs [s]
l2events	1303798	Number of level 2 events

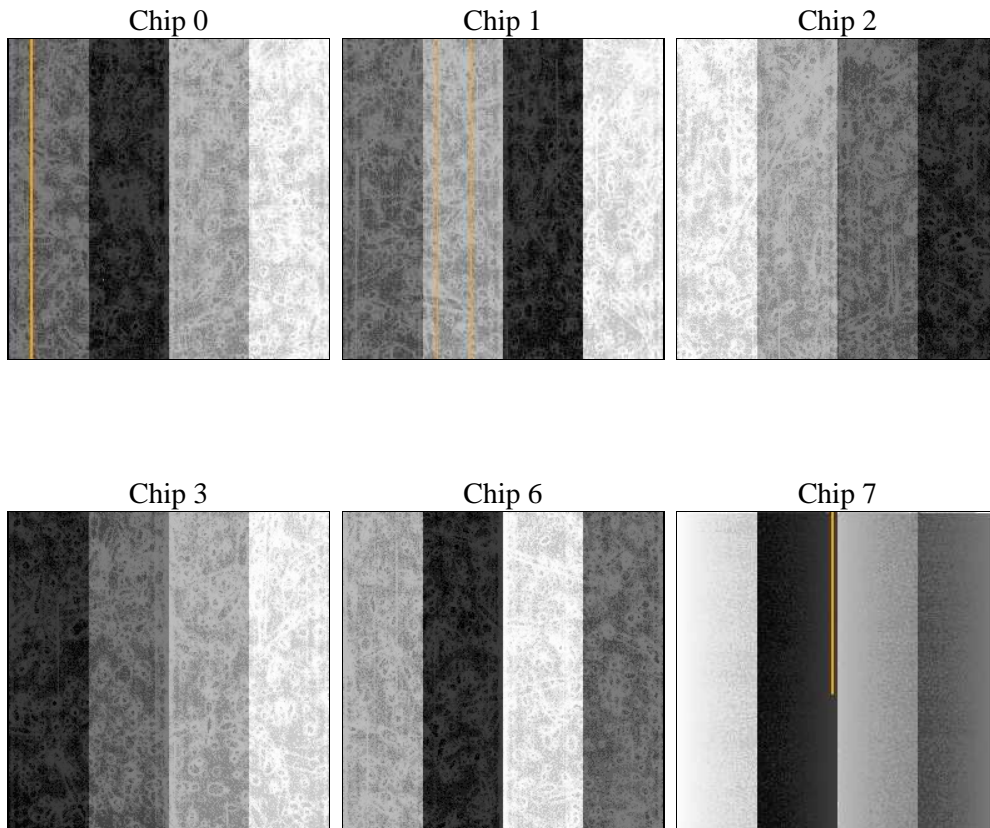
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	<table><tr><td>sched_exp_time</td><td>0.0</td><td>Scheduled observation exposure time</td></tr><tr><td>ontime</td><td>4825.0377536938</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime0</td><td>1817.4188046306</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime1</td><td>1882.28070461</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime2</td><td>1775.3674543425</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime3</td><td>1781.8904845566</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime6</td><td>1978.214466773</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime7</td><td>4825.0377536938</td><td>Sum of GTIs [s]</td></tr><tr><td>l1events</td><td>1518041</td><td>Number of level 1 events</td></tr></table>	sched_exp_time	0.0	Scheduled observation exposure time	ontime	4825.0377536938	Sum of GTIs [s]	ontime0	1817.4188046306	Sum of GTIs [s]	ontime1	1882.28070461	Sum of GTIs [s]	ontime2	1775.3674543425	Sum of GTIs [s]	ontime3	1781.8904845566	Sum of GTIs [s]	ontime6	1978.214466773	Sum of GTIs [s]	ontime7	4825.0377536938	Sum of GTIs [s]	l1events	1518041	Number of level 1 events
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ontime7	4825.0377536938	Sum of GTIs [s]																												
l1events	1518041	Number of level 1 events																												
ascdsver	8.3.2.1	ASCDS version number																												
caldsver	4.3.1	&#160																												
date	2010-09-28T21:08:24	Date and time of file creation																												
revision	3	Processing version of data																												

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	192584	199689	189340	191559	216844	528025
rejected events	27529	28784	28436	29321	32858	53755
rejected %	14%	14%	15%	15%	15%	10%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	63467	65355	52829	55283	52352	86985
	32%	32%	27%	28%	24%	16%
grade 1 events	288	312	243	214	224	188
	0%	0%	0%	0%	0%	0%
grade 2 events	59730	62276	68580	67705	85092	134000
	31%	31%	36%	35%	39%	25%
grade 3 events	6854	7132	5500	5684	5278	40772
	3%	3%	2%	2%	2%	7%
grade 4 events	6944	6943	5592	5823	5465	37227
	3%	3%	2%	3%	2%	7%
grade 5 events	1709	1732	1582	1617	1813	7589
	0%	0%	0%	0%	0%	1%
grade 6 events	28657	29739	28966	28609	36384	177514
	14%	14%	15%	14%	16%	33%
grade 7 events	24935	26200	26048	26624	30236	43750
	12%	13%	13%	13%	13%	8%

## 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	112.1515345032976	Alternating exposures requested	N	N
Pointing Dec	0	80.0277190889871	Primary exposure time	0.000000	3.2
Pointing Roll	0.0	75.74188872750236			
SIM focus pos (mm)	-0.782348	-0.7809083437167272			
SIM defocus (mm)	0	0.7524282956875696			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	55262437.296	55262436.528287			
Observation start date	1999-10-02T14:40:37	1999-10-02T14:40:36			
Observation end time	55272886.147	55272885.378663			
Observation end date	1999-10-02T17:34:46	1999-10-02T17:34:45			
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)	2010.10.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.8250377536938

## A.2 Comments

The focal plane temperature is approximately -110 C during this observation.