

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60100 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 7 2012

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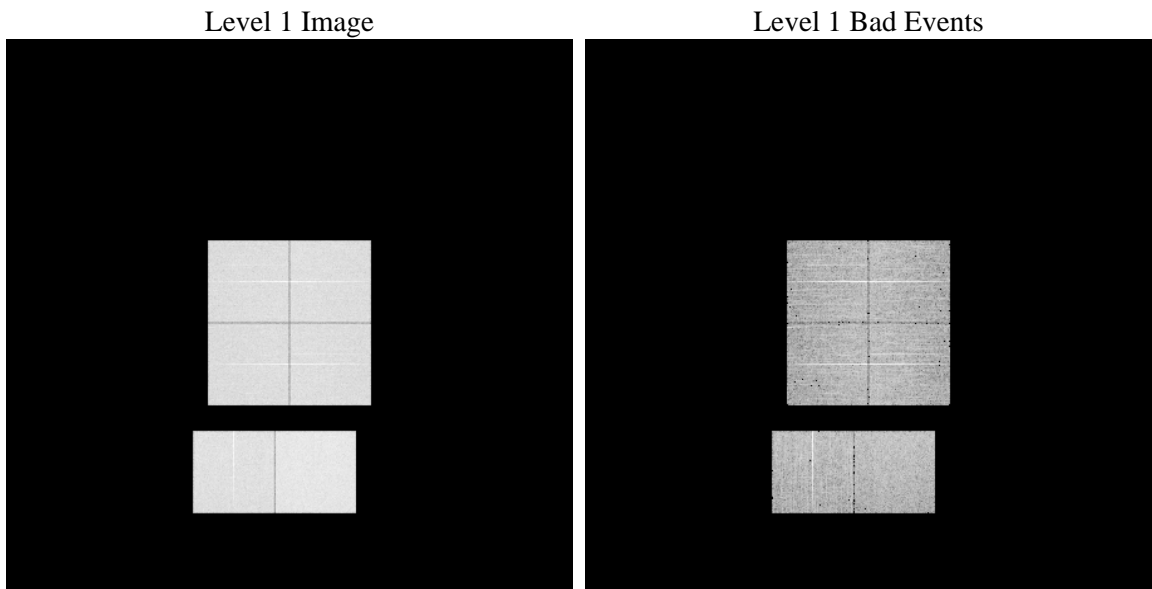
# 1 Front

seq_num	&#160	Sequence number
obs_id	60100	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 [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	322.02197230485	Nominal RA [deg]
dec_nom	-19.980173734636	Nominal Dec [deg]
roll_nom	10.994885022967	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7801.5999709368	Sum of GTIs [s]
livetime	7702.8114145452	Livetime [s]
ontime0	6035.2729847729	Sum of GTIs [s]
ontime1	6190.8396974504	Sum of GTIs [s]
ontime2	5818.1278472543	Sum of GTIs [s]
ontime3	5931.5623043776	Sum of GTIs [s]
ontime6	6407.9584462941	Sum of GTIs [s]
ontime7	7801.5999709368	Sum of GTIs [s]
l2events	1091107	Number of level 2 events

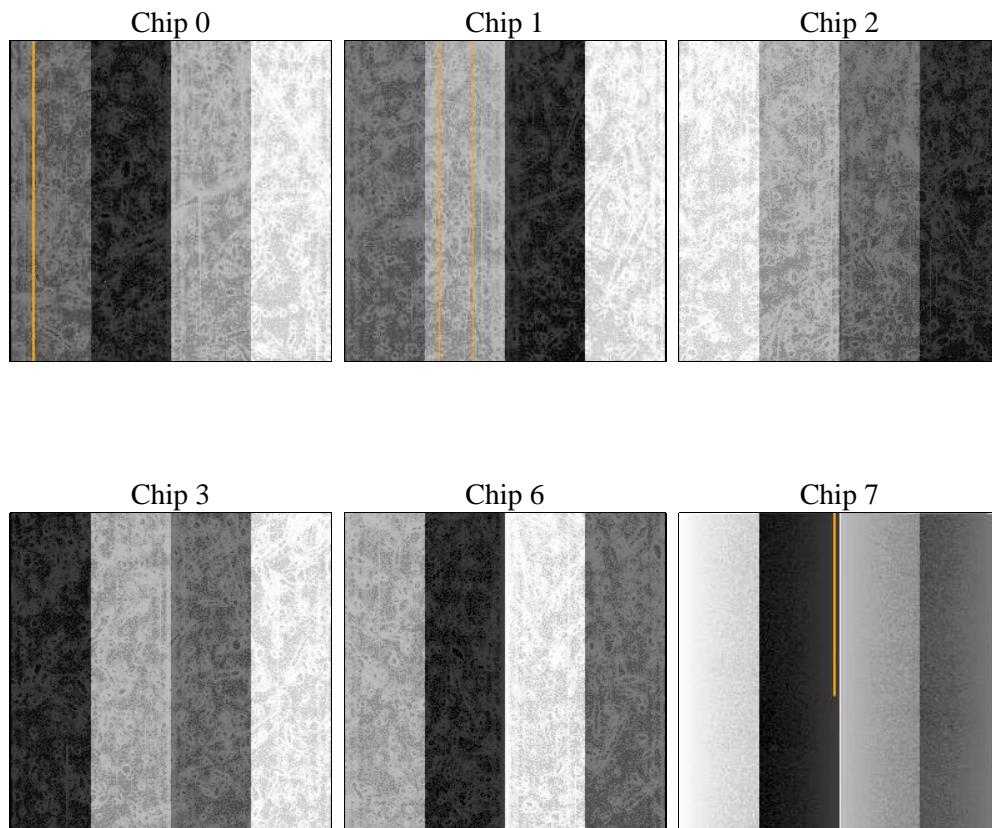
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	7801.5999709368	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime0	6035.2729847729	Sum of GTIs [s]
date	2012-12-07T07:40:42	Date and time of file creation	ontime1	6190.8396974504	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5818.1278472543	Sum of GTIs [s]
			ontime3	5931.5623043776	Sum of GTIs [s]
			ontime6	6407.9584462941	Sum of GTIs [s]
			ontime7	7801.5999709368	Sum of GTIs [s]
			l1events	1414370	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	217692	223661	213355	219630	242913	297119	grade 0 events	96683	98869	95799	97474	106217	60310
rejected events	43196	43607	42006	45909	47505	47308		44%	44%	44%	44%	43%	20%
rejected %	19%	19%	19%	20%	19%	15%	grade 1 events	575	488	586	647	501	178
								0%	0%	0%	0%	0%	0%
							grade 2 events	30494	32064	29163	29822	33881	54933
								14%	14%	13%	13%	13%	18%
							grade 3 events	11203	11438	11164	11222	12368	25268
								5%	5%	5%	5%	5%	8%
							grade 4 events	11234	11430	11419	11374	12238	24958
								5%	5%	5%	5%	5%	8%
							grade 5 events	2675	2885	2573	2890	3028	8554
								1%	1%	1%	1%	1%	2%
							grade 6 events	24984	26336	23915	23945	30809	84455
								11%	11%	11%	10%	12%	28%
							grade 7 events	39844	40151	38736	42256	43871	38463
								18%	17%	18%	19%	18%	12%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	322.0219723048523
[deg] Pointing Dec	0	-19.98017373463585
[deg] Pointing Roll	0.0	10.99488502296743
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.7524282956875696
[mm] SIM translation stage pos	-233.592463	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	208572245.233893	208572244.2089
Observation start date	2004-08-11T00:44:05	2004-08-11T00:44:04
[s] Observation end time (MET)	208614667.935779	208614666.91079
Observation end date	2004-08-11T12:31:08	2004-08-11T12:31:06
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
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
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8015999709368

### A.2 Comments