

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 60309 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

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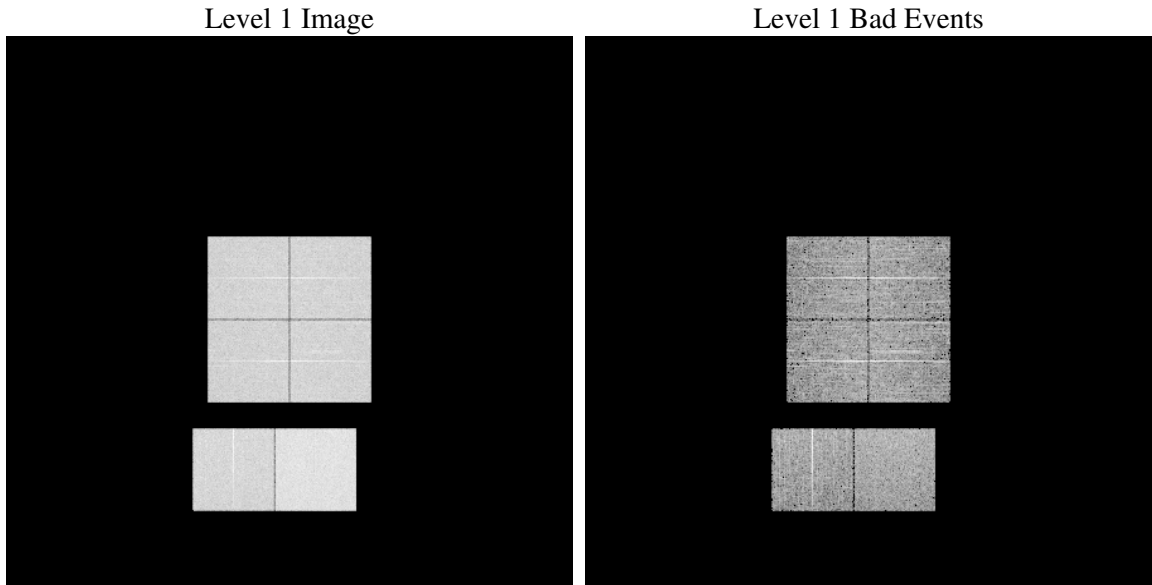
# 1 Front

seq_num	&#160
obs_id	60309
title	ACIS-012367 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	&#160
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	194.98840200593
dec_nom	-3.9738133158554
roll_nom	80.965648133169
revision	3
ontime	5692.7999787927
livetime	5620.7143176686
ontime0	4177.8517044783
ontime1	4172.7851818204
ontime2	3965.3640401065
ontime3	4078.7978109121
ontime6	4344.5576716959
ontime7	5692.7999787927
l2events	823998

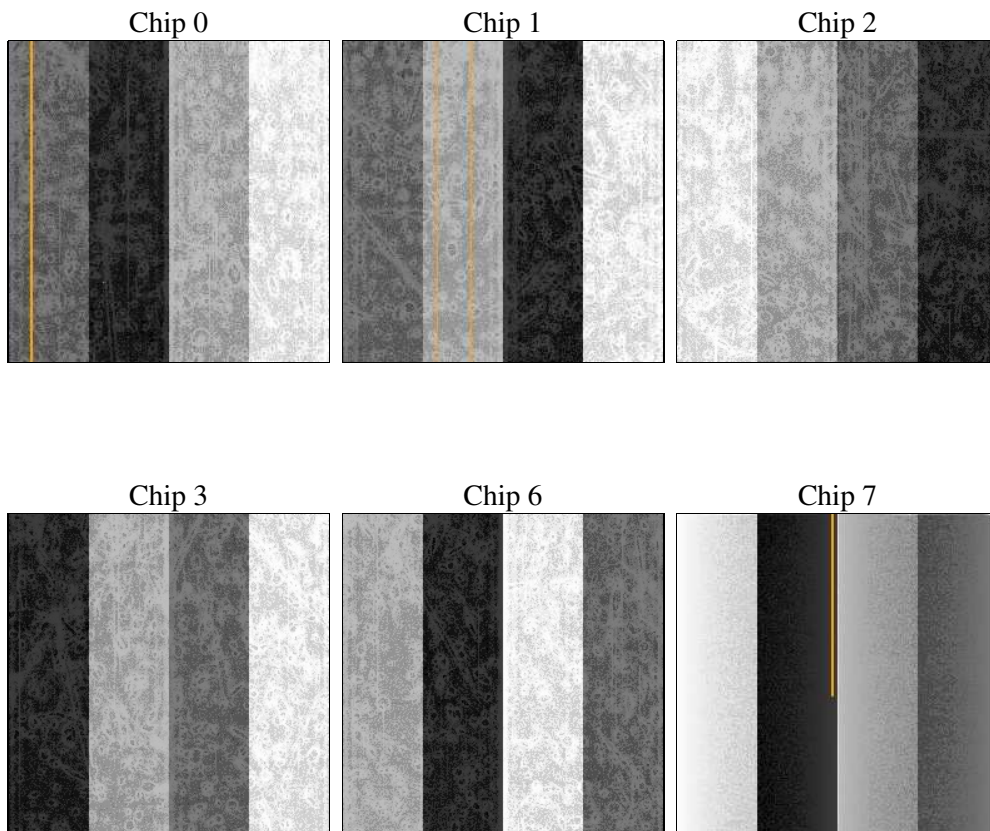
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldbver	3.5.1
date	2009-02-04T14:42:19
revision	3

sched_exp_time	5760
ontime	5692.7999787927
ontime0	4177.8517044783
ontime1	4172.7851818204
ontime2	3965.3640401065
ontime3	4078.7978109121
ontime6	4344.5576716959
ontime7	5692.7999787927
l1events	1064710

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	164024	164877	159340	165152	178471	232846
rejected events	31139	32204	31887	33945	34155	37423
rejected %	18%	19%	20%	20%	19%	16%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	74867	74470	73383	75370	80254	48877
	45%	45%	46%	45%	44%	20%
grade 1 events	393	372	459	456	383	126
	0%	0%	0%	0%	0%	0%
grade 2 events	23691	24259	21914	22879	25653	43879
	14%	14%	13%	13%	14%	18%
grade 3 events	8996	8684	8502	8749	9286	20083
	5%	5%	5%	5%	5%	8%
grade 4 events	8819	8751	8476	8768	9151	19923
	5%	5%	5%	5%	5%	8%
grade 5 events	1828	1852	1801	1900	2170	6154
	1%	1%	1%	1%	1%	2%
grade 6 events	19529	19735	18064	18466	23579	67222
	11%	11%	11%	11%	13%	28%
grade 7 events	25901	26754	26741	28564	27995	26582
	15%	16%	16%	17%	15%	11%

## 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
Pointing RA	194.9884020059342	194.9884020059342
Pointing Dec	-3.973813315855388	-3.973813315855388
Pointing Roll	80.96564813316886	80.96564813316886
SIM focus pos (mm)	-0.78090834371673	-0.78090834371673
SIM defocus (mm)	0.7524282194390134	0.7524282194390134
SIM translation stage pos (mm)	250.4660330802	250.4660330802
SIM translation stage offset (mm)	-0.01005726120527584	-0.01005726120527584
Observation start time	196698572.958877	196698572.958877
Observation start date	2004-03-26T14:59:00	2004-03-26T14:29:32
Observation end time	196705929.92111	196705929.92111
Observation end date	2004-03-26T16:35:00	2004-03-26T16:32:09
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	6	6
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
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)	2009.02.05
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.69279997

## A.2 Comments

This obsid was reprocessed to correct minor errors in parameters used in processing. Some of these parameters cannot be determined automatically for this observation and were derived from spacecraft telemetry.