

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 60426 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

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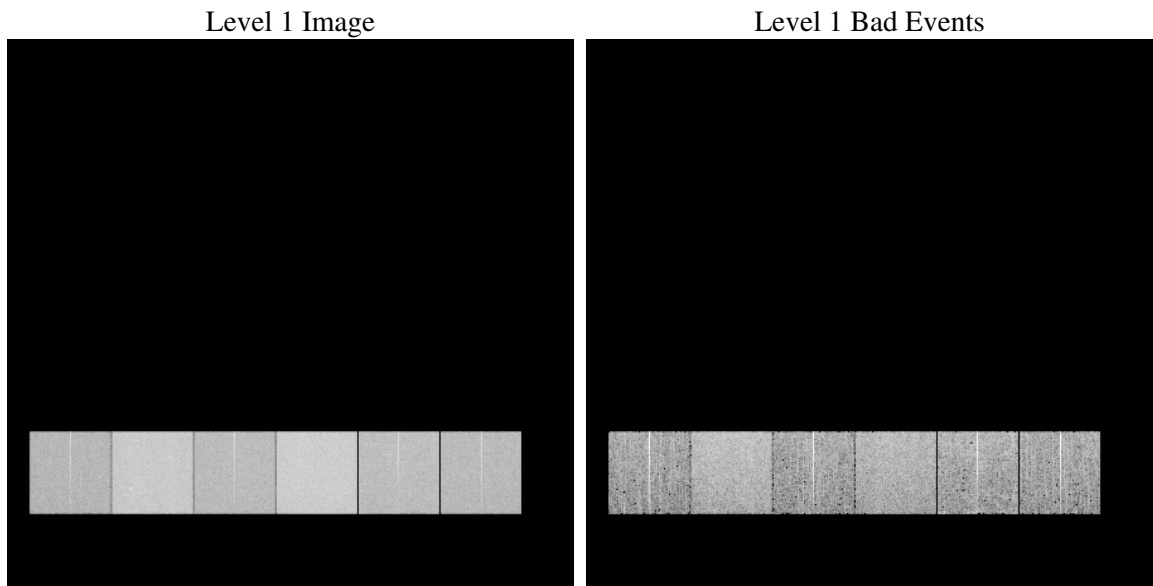
# 1 Front

seq_num	&#160
obs_id	60426
title	ACIS-456789 diagnostics
observer	CHANDRA engineering request/realtime commanding
object	&#160
dtcycle	0
cycle	P
ra_targ	0.0
dec_targ	0.0
ra_nom	30.651103676325
dec_nom	-38.750330758894
roll_nom	299.08389370622
revision	3
ontime	8355.1999688745
livetime	8249.4013959711
ontime4	4821.307112962
ontime5	8355.1999688745
ontime6	5223.1473800838
ontime7	8355.1999688745
ontime8	5427.4120408297
ontime9	5109.5910389423
l2events	1211835

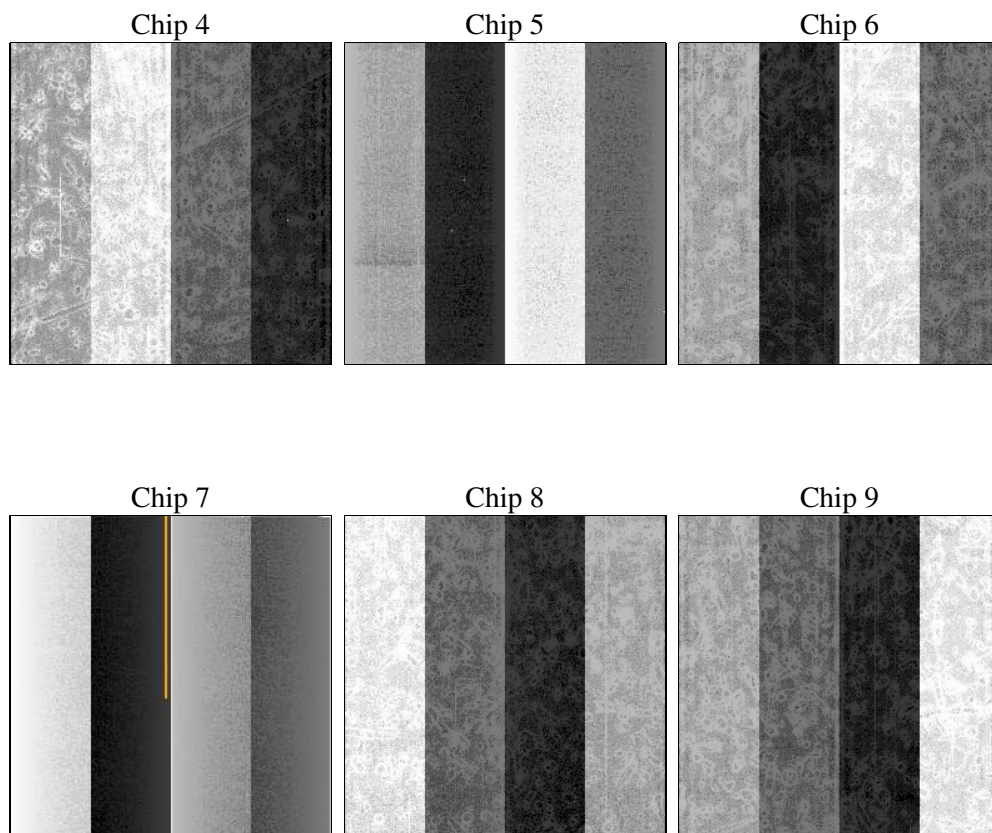
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.11.10
caldsver	3.5.1
date	2009-02-04T14:45:32
revision	3

sched_exp_time	900
ontime	8355.1999688745
ontime4	4821.307112962
ontime5	8355.1999688745
ontime6	5223.1473800838
ontime7	8355.1999688745
ontime8	5427.4120408297
ontime9	5109.5910389423
l1events	1533369

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	193857	321514	220990	349289	236519	211200
rejected events	36424	56609	37084	48529	42367	37208
rejected %	18%	17%	16%	13%	17%	17%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	92362	61943	101981	75115	107664	97392
	47%	19%	46%	21%	45%	46%
grade 1 events	598	206	471	180	482	533
	0%	0%	0%	0%	0%	0%
grade 2 events	25184	95314	32137	67250	34370	30037
	12%	29%	14%	19%	14%	14%
grade 3 events	10861	16889	11468	30461	12784	11335
	5%	5%	5%	8%	5%	5%
grade 4 events	10535	16550	11532	30428	12957	11199
	5%	5%	5%	8%	5%	5%
grade 5 events	2082	8962	2483	8339	2958	2507
	1%	2%	1%	2%	1%	1%
grade 6 events	20315	77560	29268	101370	28806	26162
	10%	24%	13%	29%	12%	12%
grade 7 events	31920	44090	31650	36146	36498	32035
	16%	13%	14%	10%	15%	15%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
Pointing RA	30.65110367632505	30.65110367632505
Pointing Dec	-38.75033075889405	-38.75033075889405
Pointing Roll	299.0838937062178	299.0838937062178
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	189438155.291125	189438155.291125
Observation start date	2004-01-02T13:41:31	2004-01-02T13:42:35
Observation end time	189447406.465139	189447406.465139
Observation end date	2004-01-02T13:57:00	2004-01-02T16:16:46
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	8.35519996

## 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.