

# V&V Reference Report

## L2 ASCDS Version : 7.6.11.10

Observation 61605 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Feb 5 2009

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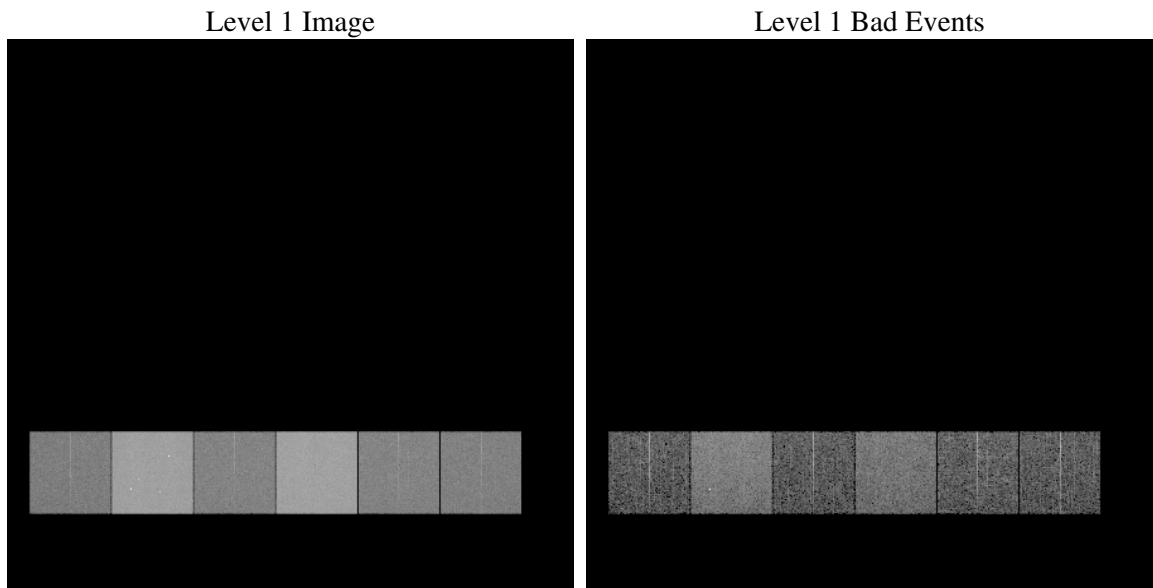
# 1 Front

seq_num	&#160
obs_id	61605
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	345.97131597538
dec_nom	45.020322912542
roll_nom	102.20267242637
revision	4
ontime	5270.1629668027
livetime	5203.4289900059
ontime4	2022.8052376062
ontime5	5642.7448522598
ontime6	2220.4673479944
ontime7	5270.1629668027
ontime8	2217.3084776849
ontime9	2136.0774773061
l2events	1184423

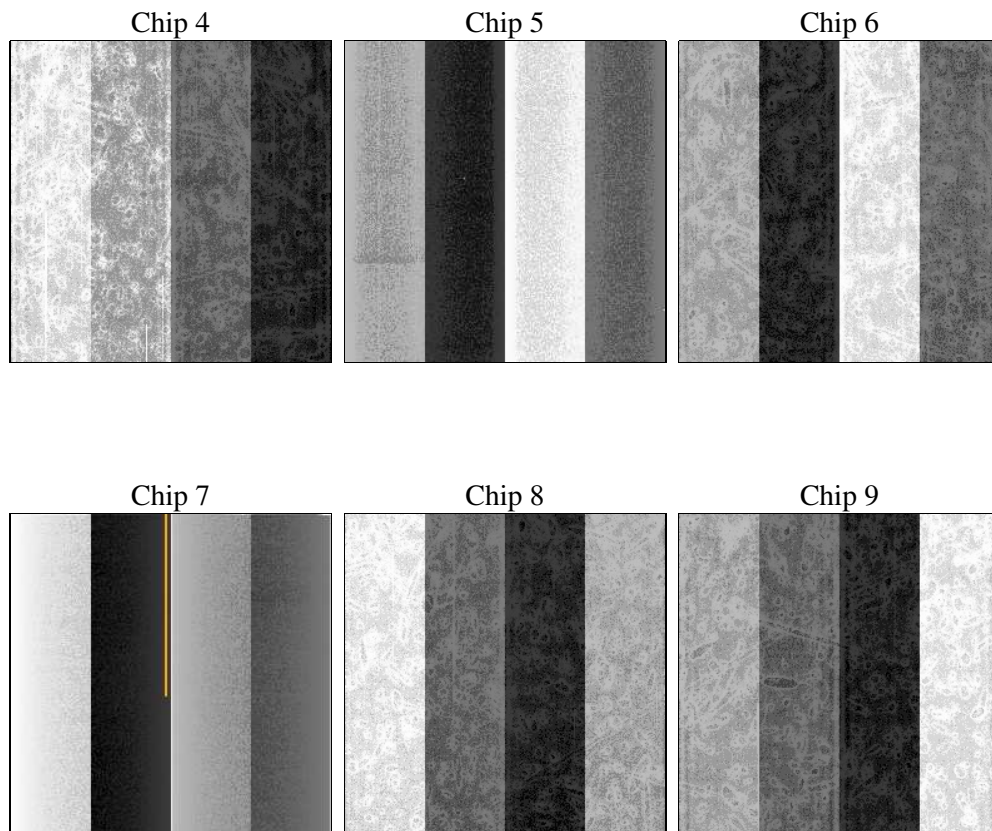
## 2 OBI

### 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	2009-02-05T09:39:34
revision	3

sched_exp_time	8520
ontime	5270.1629668027
ontime4	2022.8052376062
ontime5	5642.7448522598
ontime6	2220.4673479944
ontime7	5270.1629668027
ontime8	2217.3084776849
ontime9	2136.0774773061
l1events	1430313

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	149125	380106	172919	391917	174998	161248
rejected events	23735	54999	23658	42192	26206	23601
rejected %	15%	14%	13%	10%	14%	14%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	73636	81867	84825	93411	85678	78585
	49%	21%	49%	23%	48%	48%
grade 1 events	412	235	418	232	450	439
	0%	0%	0%	0%	0%	0%
grade 2 events	22825	121088	26985	80073	27149	25447
	15%	31%	15%	20%	15%	15%
grade 3 events	8068	21557	9309	37229	9711	8893
	5%	5%	5%	9%	5%	5%
grade 4 events	8106	21410	9452	36839	9584	8864
	5%	5%	5%	9%	5%	5%
grade 5 events	1132	8477	1402	6026	1516	1371
	0%	2%	0%	1%	0%	0%
grade 6 events	17634	91500	24726	115786	22950	21464
	11%	24%	14%	29%	13%	13%
grade 7 events	17312	33972	15802	22321	17960	16185
	11%	8%	9%	5%	10%	10%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
Pointing RA	345.9713159753809	345.9713159753809	Subarray requested	NONE	NONE
Pointing Dec	45.02032291254183	45.02032291254183	Alternating exposures requested	N	N
Pointing Roll	102.2026724263655	102.2026724263655	Primary exposure time	3.2	3.2
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119			
SIM defocus (mm)	0.8505140384245534	0.8505140384245534			
SIM translation stage pos (mm)	250.4660330802	250.4660330802			
SIM translation stage offset (mm)	-0.01005726120527584	-0.01005726120527584			
Observation start time	107822645.565	107822645.565			
Observation start date	2001-06-01T23:00:00	2001-06-01T22:44:05			
Observation end time	107831983.638718	107831983.638718			
Observation end date	2001-06-02T01:22:00	2001-06-02T01:19:43			
Read mode	TIMED	TIMED			

## **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	5.27016296

## 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.