

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 60136 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Dec 3 2012

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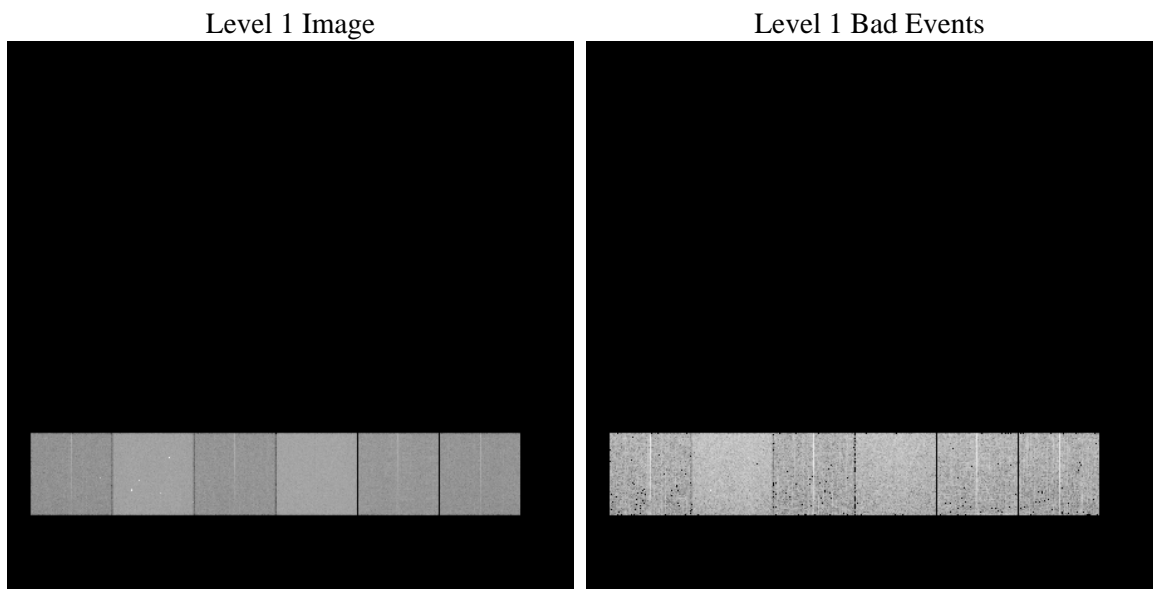
# 1 Front

seq_num	&#160	Sequence number
obs_id	60136	Observation id
title	ACIS-456789 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	38.963955077267	Nominal RA [deg]
dec_nom	70.025734556682	Nominal Dec [deg]
roll_nom	82.453416069696	Nominal Roll [deg]
revision	4	Processing version of data
ontime	5775.9069750011	Sum of GTIs [s]
livetime	5702.76896305	Livetime [s]
ontime4	3140.5523194075	Sum of GTIs [s]
ontime5	5775.8659349978	Sum of GTIs [s]
ontime6	3358.0637277961	Sum of GTIs [s]
ontime7	5775.9069750011	Sum of GTIs [s]
ontime8	3516.7888412178	Sum of GTIs [s]
ontime9	3283.1563149691	Sum of GTIs [s]
l2events	814186	Number of level 2 events

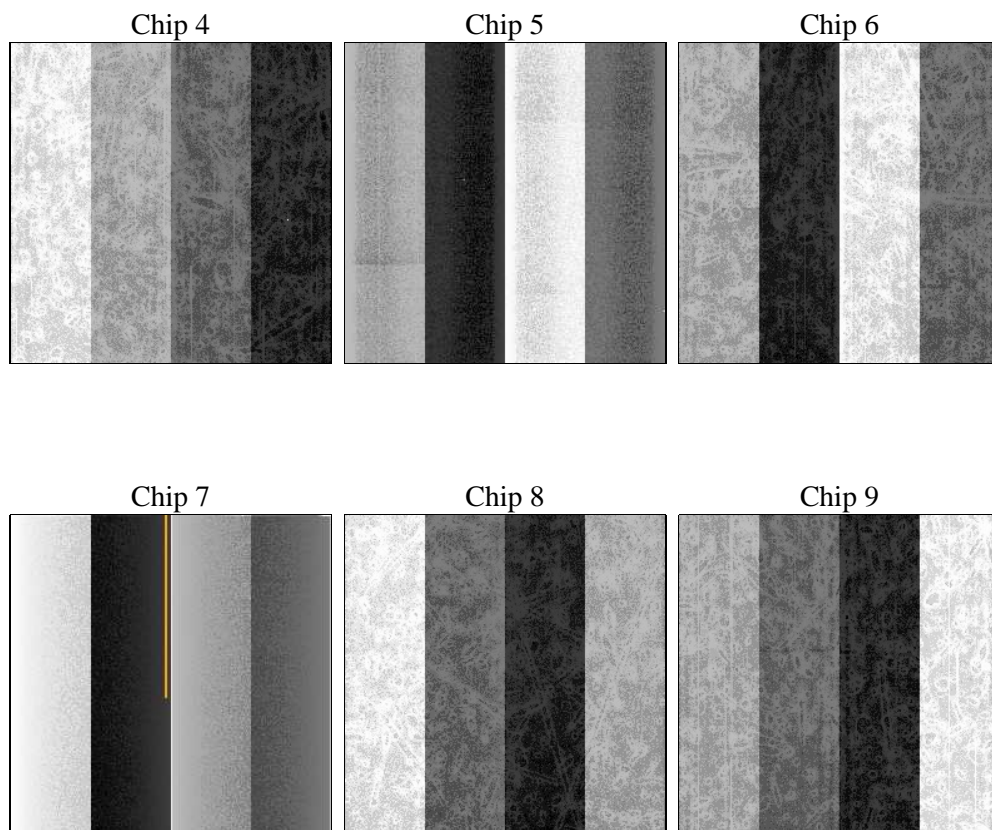
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	4440	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5775.9069750011	Sum of GTIs [s]
caldsver	4.5.2	&#160	ontime4	3140.5523194075	Sum of GTIs [s]
date	2012-12-03T23:36:27	Date and time of file creation	ontime5	5775.8659349978	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	3358.0637277961	Sum of GTIs [s]
			ontime7	5775.9069750011	Sum of GTIs [s]
			ontime8	3516.7888412178	Sum of GTIs [s]
			ontime9	3283.1563149691	Sum of GTIs [s]
			l1events	1064733	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	131408	235608	145926	250960	159712	141119	grade 0 events	58883	43714	62761	53450	68139	60459
rejected events	29166	45045	29212	38611	32495	29704		44%	18%	43%	21%	42%	42%
rejected %	22%	19%	20%	15%	20%	21%	grade 1 events	559	263	354	173	457	419
								0%	0%	0%	0%	0%	0%
							grade 2 events	16207	70044	20313	46688	22214	19032
								12%	29%	13%	18%	13%	13%
							grade 3 events	6880	11112	7308	20836	8419	7154
								5%	4%	5%	8%	5%	5%
							grade 4 events	6860	10871	7217	20707	8338	7247
								5%	4%	4%	8%	5%	5%
							grade 5 events	1660	6923	1869	6465	2194	1925
								1%	2%	1%	2%	1%	1%
							grade 6 events	14259	56615	20238	72692	21196	18482
								10%	24%	13%	28%	13%	13%
							grade 7 events	26100	36066	25866	29949	28755	26401
								19%	15%	17%	11%	18%	18%

## 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
[deg] Pointing RA	38.96394430299269	38.96395507726712
[deg] Pointing Dec	70.02570702380902	70.02573455668173
[deg] Pointing Roll	82.4534261883161	82.45341606969608
[mm] SIM focus pos	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	206064006.572409	206064006.572409
Observation start date	2004-07-13T00:32:00	2004-07-13T00:00:06
[s] Observation end time (MET)	206071554.002033	206071554.002033
Observation end date	2004-07-13T01:46:00	2004-07-13T02:05:54
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
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
[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)	2013.02.06
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.7759069750011

### A.2 Comments