

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51997 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 26 2015

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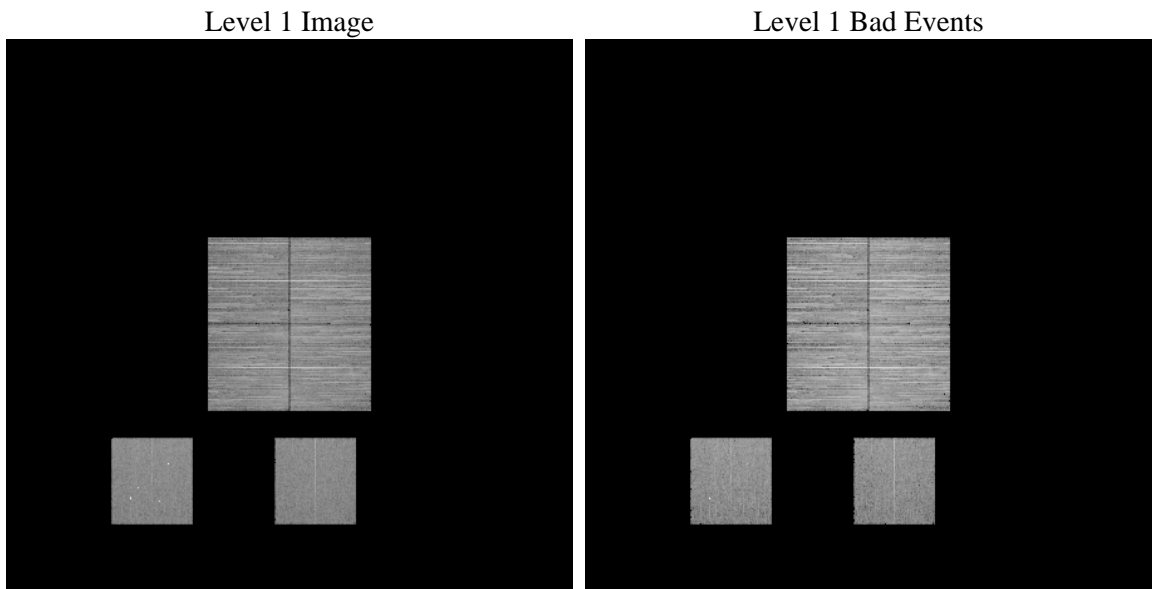
# 1 Front

seq_num	&#160	Sequence number
obs_id	51997	Observation id
title	ACIS-012357 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	176.23926911293	Nominal RA [deg]
dec_nom	-3.8695995514887	Nominal Dec [deg]
roll_nom	279.42833625961	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8014.5723767281	Sum of GTIs [s]
livetime	7913.0870354978	Livetime [s]
ontime0	8014.5313366652	Sum of GTIs [s]
ontime1	8014.4902967215	Sum of GTIs [s]
ontime2	8014.4492566586	Sum of GTIs [s]
ontime3	8014.6134166718	Sum of GTIs [s]
ontime5	8014.4082167149	Sum of GTIs [s]
ontime7	8014.5723767281	Sum of GTIs [s]
l2events	170524	Number of level 2 events

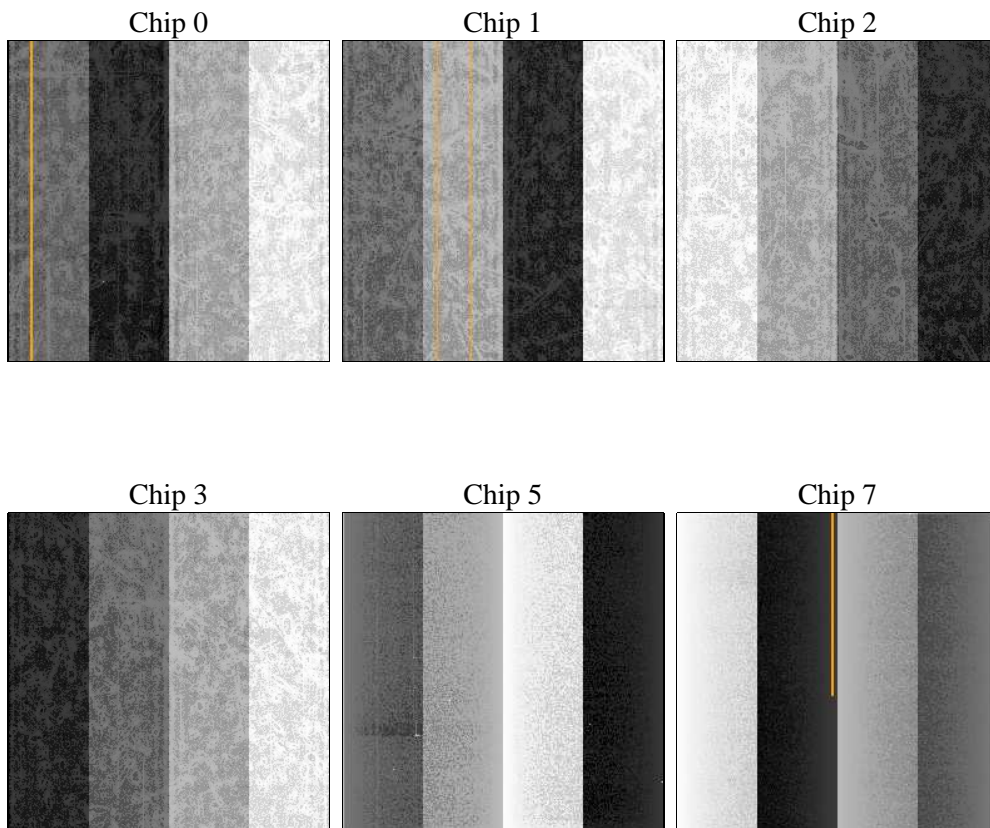
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	10.3.3	Processing system revision	ontime	8014.5723767281	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	8014.5313366652	Sum of GTIs [s]
date	2015-03-26T23:53:06	Date and time of file creation	ontime1	8014.4902967215	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8014.4492566586	Sum of GTIs [s]
			ontime3	8014.6134166718	Sum of GTIs [s]
			ontime5	8014.4082167149	Sum of GTIs [s]
			ontime7	8014.5723767281	Sum of GTIs [s]
			l1events	764000	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	123646	139506	133870	140994	118249	107735	grade 0 events	11019	10710	11340	11161	6986	5954
rejected events	102319	117831	112210	119530	66381	62585		8%	7%	8%	7%	5%	5%
rejected %	82%	84%	83%	84%	56%	58%	grade 1 events	67	59	56	75	123	93
								0%	0%	0%	0%	0%	0%
							grade 2 events	4545	4757	4435	4309	19260	11438
								3%	3%	3%	3%	16%	10%
							grade 3 events	1502	1597	1626	1567	1807	3772
								1%	1%	1%	1%	1%	3%
							grade 4 events	1471	1574	1532	1600	1732	3728
								1%	1%	1%	1%	1%	3%
							grade 5 events	2531	2691	2456	2848	5561	6752
								2%	1%	1%	2%	4%	6%
							grade 6 events	3468	3749	3418	3563	23747	21818
								2%	2%	2%	2%	20%	20%
							grade 7 events	99043	114369	109007	115871	59033	54180
								80%	81%	81%	82%	49%	50%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	176.2392691129333
[deg] Pointing Dec	0	-3.869599551488723
[deg] Pointing Roll	0.0	279.4283362596059
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	543763819.6977839	543763819.6977839
Observation start date	2015-03-26T13:30:20	2015-03-26T13:30:19
[s] Observation end time (MET)	543773367.46872	543773367.46872
Observation end date	2015-03-26T16:09:27	2015-03-26T16:09:27
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)	2015.03.26
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0145723767281

### A.2 Comments