

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51993 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 30 2015

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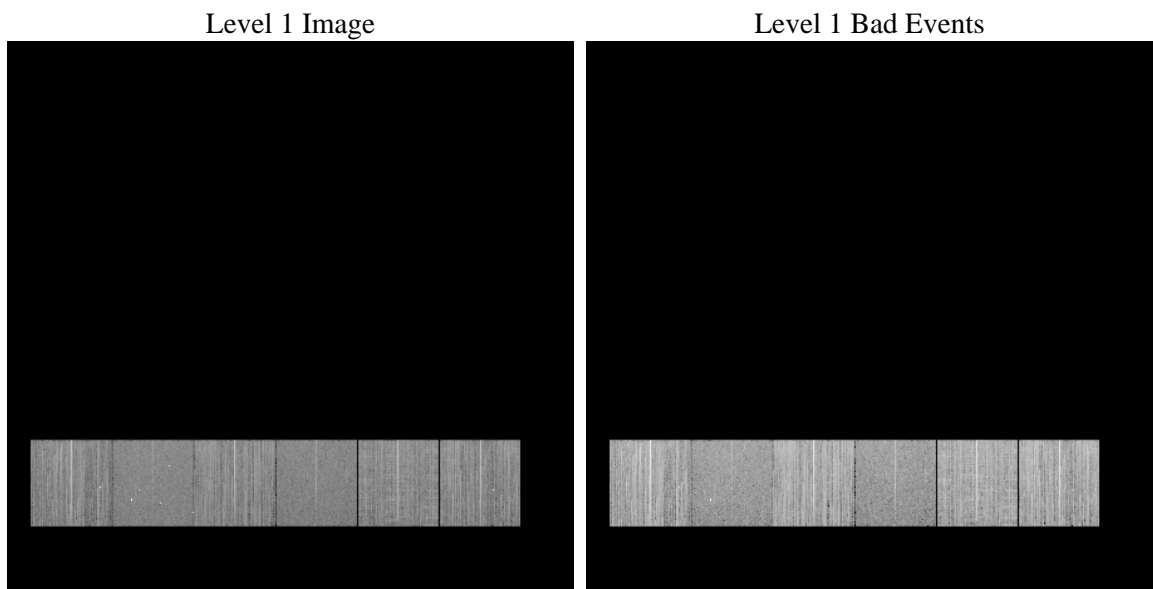
# 1 Front

seq_num	&#160	Sequence number
obs_id	51993	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	120.15187139917	Nominal RA [deg]
dec_nom	-25.234479474622	Nominal Dec [deg]
roll_nom	280.75938911526	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8021.1885154247	Sum of GTIs [s]
livetime	7919.6193966625	Livetime [s]
ontime4	8021.0653953552	Sum of GTIs [s]
ontime5	8021.1474753618	Sum of GTIs [s]
ontime6	8021.1064354181	Sum of GTIs [s]
ontime7	8021.1885154247	Sum of GTIs [s]
ontime8	8021.0243554115	Sum of GTIs [s]
ontime9	8021.2295553684	Sum of GTIs [s]
l2events	172546	Number of level 2 events

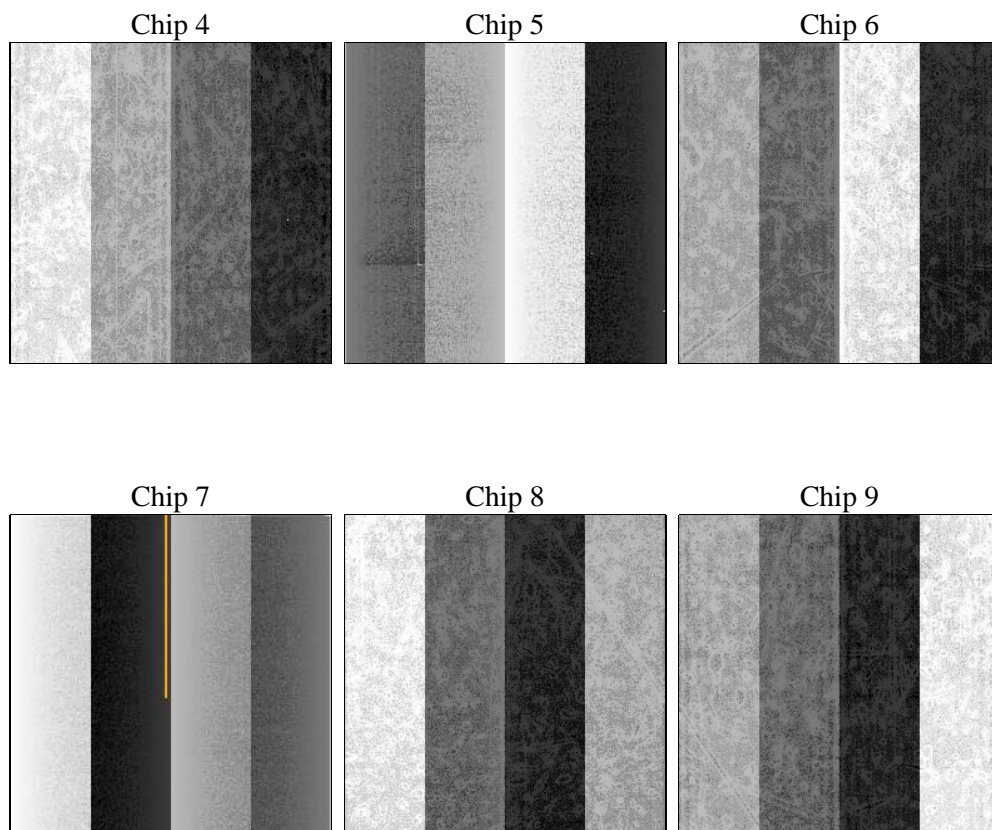
## 2 OBI

### 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	8021.1885154247	Sum of GTIs [s]
caldbver	4.6.7	&#160	ontime4	8021.0653953552	Sum of GTIs [s]
date	2015-03-30T20:43:22	Date and time of file creation	ontime5	8021.1474753618	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8021.1064354181	Sum of GTIs [s]
			ontime7	8021.1885154247	Sum of GTIs [s]
			ontime8	8021.0243554115	Sum of GTIs [s]
			ontime9	8021.2295553684	Sum of GTIs [s]
			l1events	793596	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	136246	119695	140877	107954	144318	144506	grade 0 events	13587	7334	11303	6050	13423	13088
rejected events	112695	67348	118260	62971	113951	120476		9%	6%	8%	5%	9%	9%
rejected %	82%	56%	83%	58%	78%	83%	grade 1 events	105	140	61	80	79	69
								0%	0%	0%	0%	0%	0%
							grade 2 events	4385	19146	4821	11455	6747	4563
								3%	15%	3%	10%	4%	3%
							grade 3 events	1607	1831	1596	3739	2472	1695
								1%	1%	1%	3%	1%	1%
							grade 4 events	1624	1811	1540	3687	2447	1552
								1%	1%	1%	3%	1%	1%
							grade 5 events	2918	5569	2877	6773	3737	3165
								2%	4%	2%	6%	2%	2%
							grade 6 events	3103	23807	4053	21430	6319	3885
								2%	19%	2%	19%	4%	2%
							grade 7 events	108917	60057	114626	54740	109094	116489
								79%	50%	81%	50%	75%	80%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
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
[deg] Pointing RA	0	120.1518713991682	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	-25.2344794746218	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	280.7593891152594	[s] Primary exposure time	3.2	3.2
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)	543992491.060604	543992491.060604			
Observation start date	2015-03-29T05:01:31	2015-03-29T05:01:31			
[s] Observation end time (MET)	544002553.702449	544002553.702449			
Observation end date	2015-03-29T07:49:14	2015-03-29T07:49:13			
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)	2015.03.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0211885154247

### A.2 Comments