

# V&V Reference Report

## L2 ASCDS Version : 8.5.1

Observation 59858 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 16 2012

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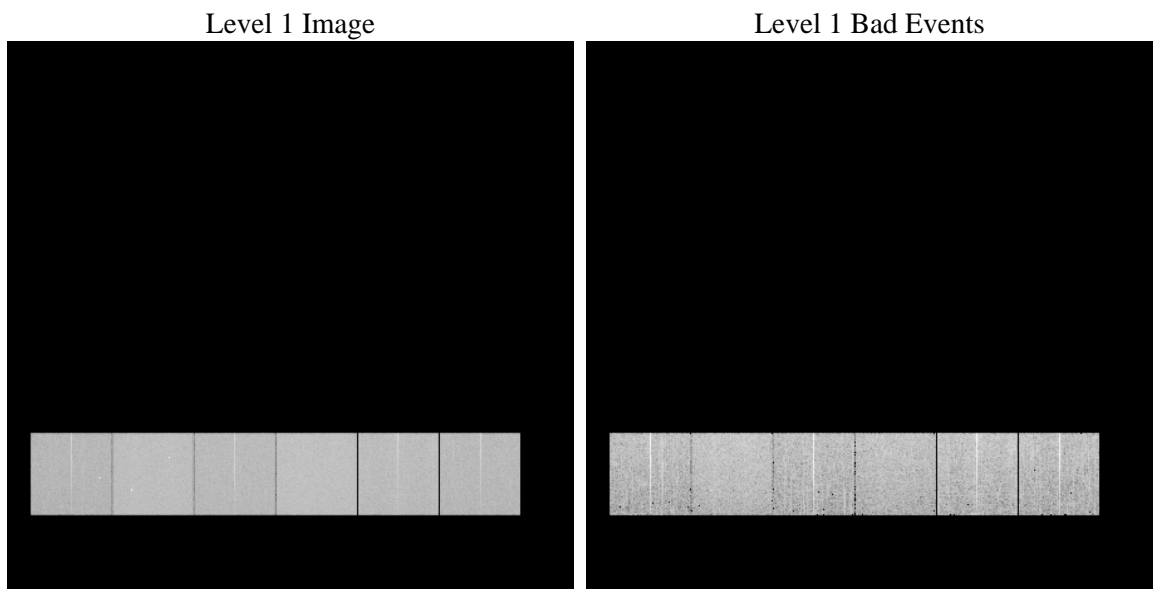
# 1 Front

seq_num	&#160	Sequence number
obs_id	59858	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	110.62730875687	Nominal RA [deg]
dec_nom	9.7096386766308	Nominal Dec [deg]
roll_nom	346.83231315789	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8280.6908131838	Sum of GTIs [s]
livetime	8175.8357200739	Livetime [s]
ontime4	6300.334097445	Sum of GTIs [s]
ontime5	8280.6497731805	Sum of GTIs [s]
ontime6	6877.2678594589	Sum of GTIs [s]
ontime7	8280.6908131838	Sum of GTIs [s]
ontime8	7091.09010759	Sum of GTIs [s]
ontime9	6689.4149213135	Sum of GTIs [s]
l2events	1113306	Number of level 2 events

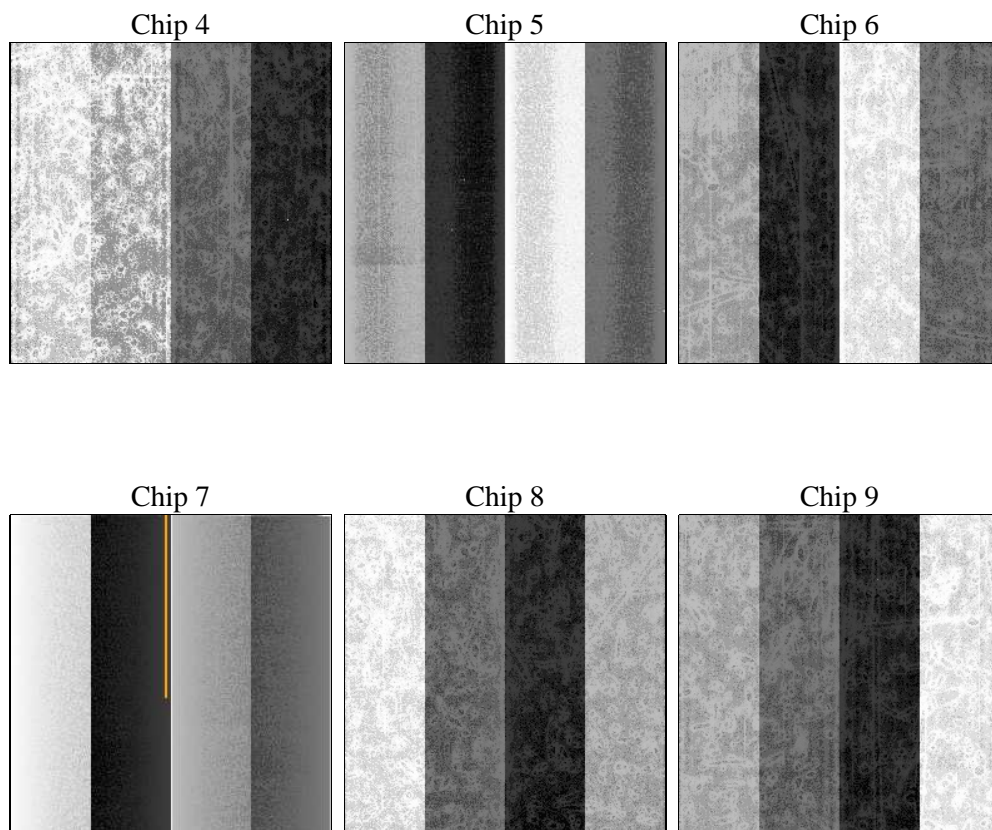
## 2 OBI

### 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	8.5.1	Processing system revision	ontime	8280.6908131838	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime4	6300.334097445	Sum of GTIs [s]
date	2012-12-16T03:58:52	Date and time of file creation	ontime5	8280.6497731805	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	6877.2678594589	Sum of GTIs [s]
			ontime7	8280.6908131838	Sum of GTIs [s]
			ontime8	7091.09010759	Sum of GTIs [s]
			ontime9	6689.4149213135	Sum of GTIs [s]
			l1events	1494261	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	210203	271028	238323	289926	257999	226782	grade 0 events	93202	43882	102301	57342	108441	96457
rejected events	49481	56743	49850	49893	57089	50386		44%	16%	42%	19%	42%	42%
rejected %	23%	20%	20%	17%	22%	22%	grade 1 events	804	207	526	183	583	612
								0%	0%	0%	0%	0%	0%
							grade 2 events	25427	78958	32864	52606	35454	30199
								12%	29%	13%	18%	13%	13%
							grade 3 events	10814	12615	11609	23967	13332	11591
								5%	4%	4%	8%	5%	5%
							grade 4 events	10707	12041	11741	23529	13358	11388
								5%	4%	4%	8%	5%	5%
							grade 5 events	2822	8796	3139	8886	4097	3397
								1%	3%	1%	3%	1%	1%
							grade 6 events	20572	66789	29958	82589	30325	26761
								9%	24%	12%	28%	11%	11%
							grade 7 events	45855	47740	46185	40824	52409	46377
								21%	17%	19%	14%	20%	20%

## 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	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	110.6273087568684	Alternating exposures requested	N	N
[deg] Pointing Dec	0	9.709638676630775	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	346.8323131578917			
[mm] SIM focus pos	-0.684267	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	221878066.029963	221878065.00497			
Observation start date	2005-01-12T00:47:46	2005-01-12T00:47:45			
[s] Observation end time (MET)	221890333.230516	221890332.20552			
Observation end date	2005-01-12T04:12:13	2005-01-12T04:12:12			
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)	2013.01.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2806908131838

### A.2 Comments