

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 59980 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 11 2012

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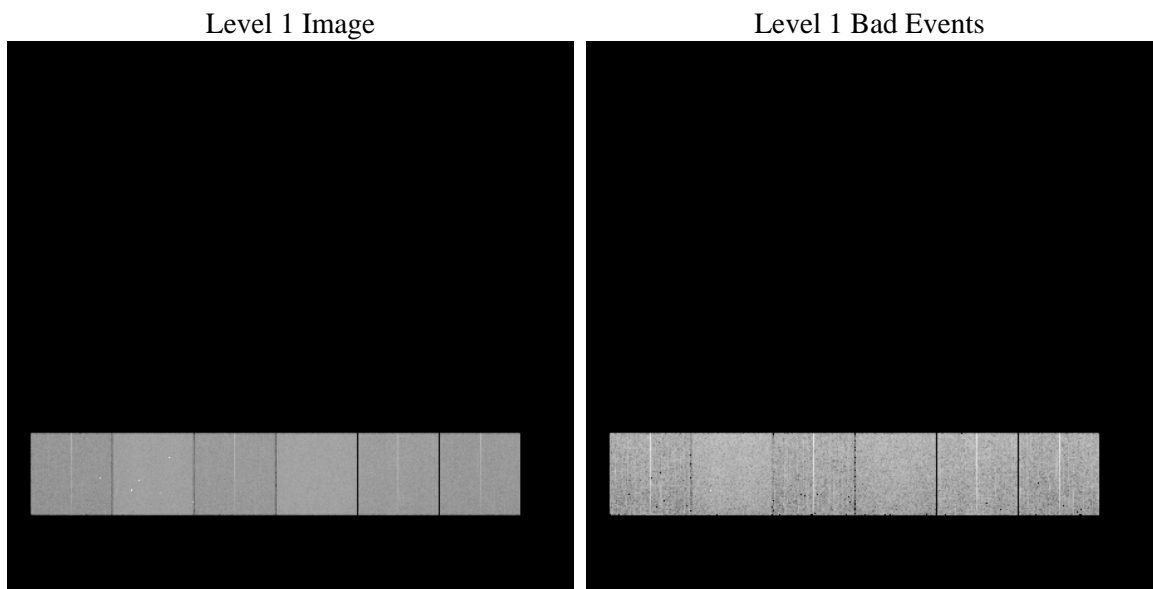
# 1 Front

seq_num	&#160	Sequence number
obs_id	59980	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	48.9934294725	Nominal RA [deg]
dec_nom	12.027886787662	Nominal Dec [deg]
roll_nom	70.118824906982	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7795.1999709606	Sum of GTIs [s]
livetime	7696.4924552224	Livetime [s]
ontime4	5348.2573194504	Sum of GTIs [s]
ontime5	7795.1999709606	Sum of GTIs [s]
ontime6	5973.7684069574	Sum of GTIs [s]
ontime7	7795.1999709606	Sum of GTIs [s]
ontime8	6213.6005610228	Sum of GTIs [s]
ontime9	5837.6462100148	Sum of GTIs [s]
l2events	1045420	Number of level 2 events

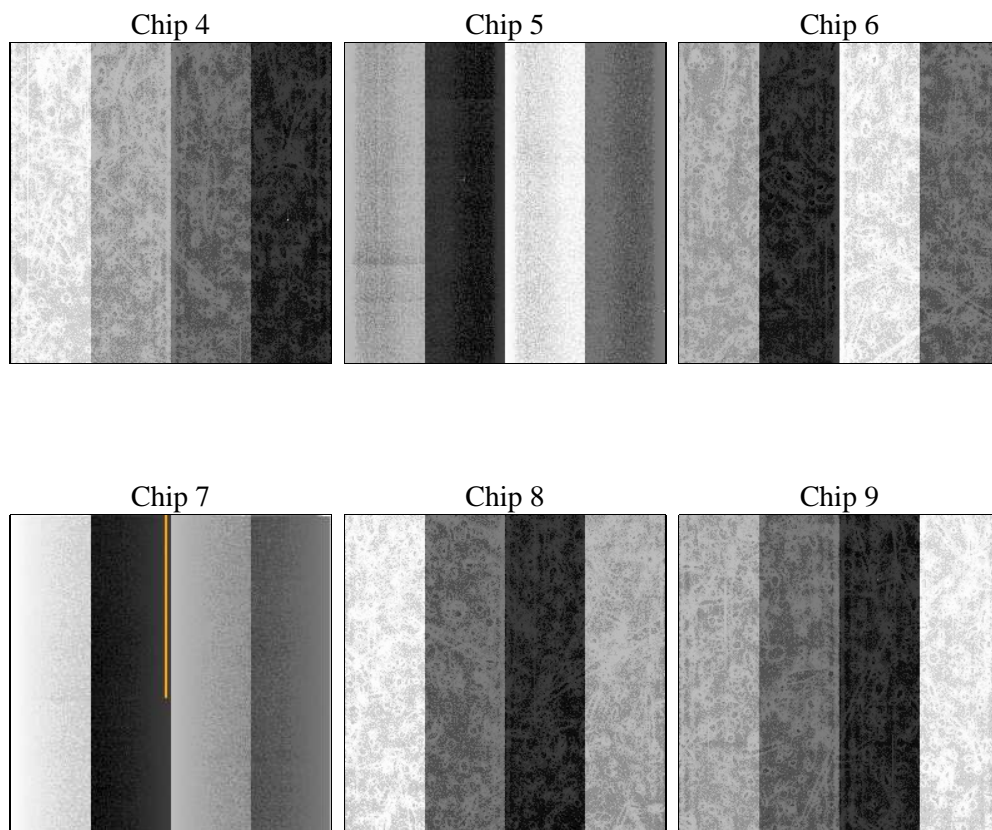
## 2 OBI

### 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	Processing system revision	ontime	7795.1999709606	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime4	5348.2573194504	Sum of GTIs [s]
date	2012-12-11T03:27:12	Date and time of file creation	ontime5	7795.1999709606	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5973.7684069574	Sum of GTIs [s]
			ontime7	7795.1999709606	Sum of GTIs [s]
			ontime8	6213.6005610228	Sum of GTIs [s]
			ontime9	5837.6462100148	Sum of GTIs [s]
			l1events	1411534	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	187524	274281	217367	288444	236354	207564	grade 0 events	82436	49672	92149	57110	99079	88461
rejected events	45384	56945	47024	50079	53429	46937		43%	18%	42%	19%	41%	42%
rejected %	24%	20%	21%	17%	22%	22%	grade 1 events	674	419	444	219	558	537
								0%	0%	0%	0%	0%	0%
							grade 2 events	22632	76625	29703	52069	32192	27635
								12%	27%	13%	18%	13%	13%
							grade 3 events	9522	12996	10605	24068	12105	10569
								5%	4%	4%	8%	5%	5%
							grade 4 events	9394	12880	10685	23731	12195	10235
								5%	4%	4%	8%	5%	4%
							grade 5 events	2567	8995	2998	8949	3702	3094
								1%	3%	1%	3%	1%	1%
							grade 6 events	18235	65270	27293	81472	27445	23800
								9%	23%	12%	28%	11%	11%
							grade 7 events	42064	47424	43490	40826	49078	43233
								22%	17%	20%	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	48.99342947250013	Alternating exposures requested	N	N
[deg] Pointing Dec	0	12.02788678766215	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	70.1188249069815			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	215885454.510494	215885453.48548			
Observation start date	2004-11-03T16:10:55	2004-11-03T16:10:53			
[s] Observation end time (MET)	215925944.062312	215925943.03729			
Observation end date	2004-11-04T03:25:44	2004-11-04T03:25:43			
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)	2013.01.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7951999709606

### A.2 Comments