

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60069 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 8 2012

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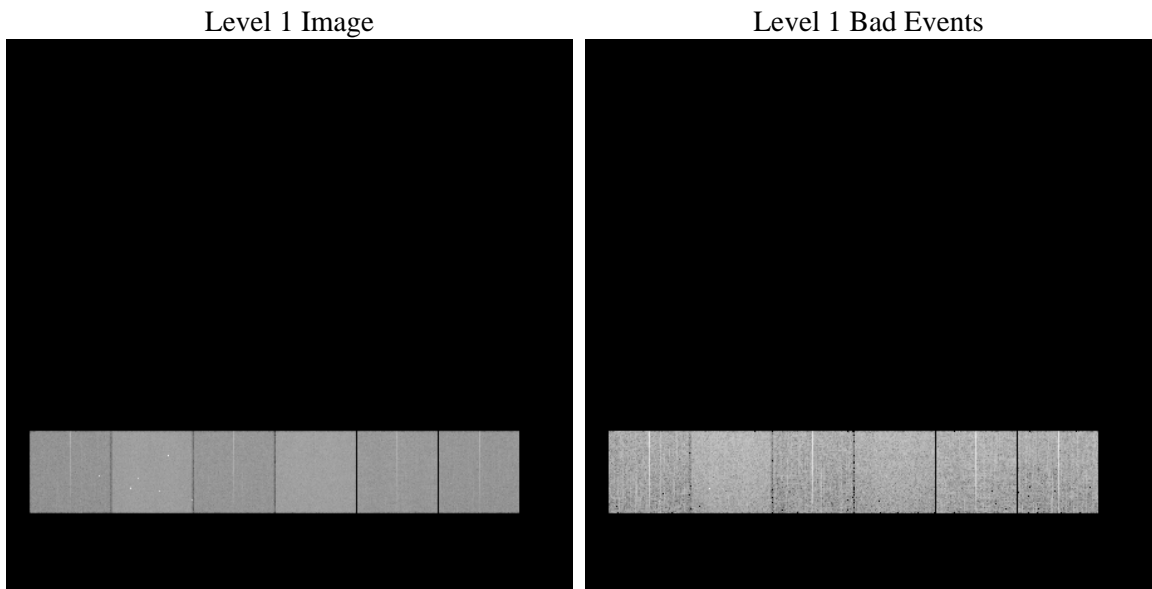
# 1 Front

seq_num	&#160	Sequence number
obs_id	60069	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	322.01728253552	Nominal RA [deg]
dec_nom	-8.0238401644468	Nominal Dec [deg]
roll_nom	270.80906197143	Nominal Roll [deg]
revision	3	Processing version of data
ontime	7793.8275868595	Sum of GTIs [s]
livetime	7695.1374490751	Livetime [s]
ontime4	5259.2549625337	Sum of GTIs [s]
ontime5	7793.7865468562	Sum of GTIs [s]
ontime6	5648.2136979997	Sum of GTIs [s]
ontime7	7793.8275868595	Sum of GTIs [s]
ontime8	5940.7863373458	Sum of GTIs [s]
ontime9	5599.7235856652	Sum of GTIs [s]
l2events	1061322	Number of level 2 events

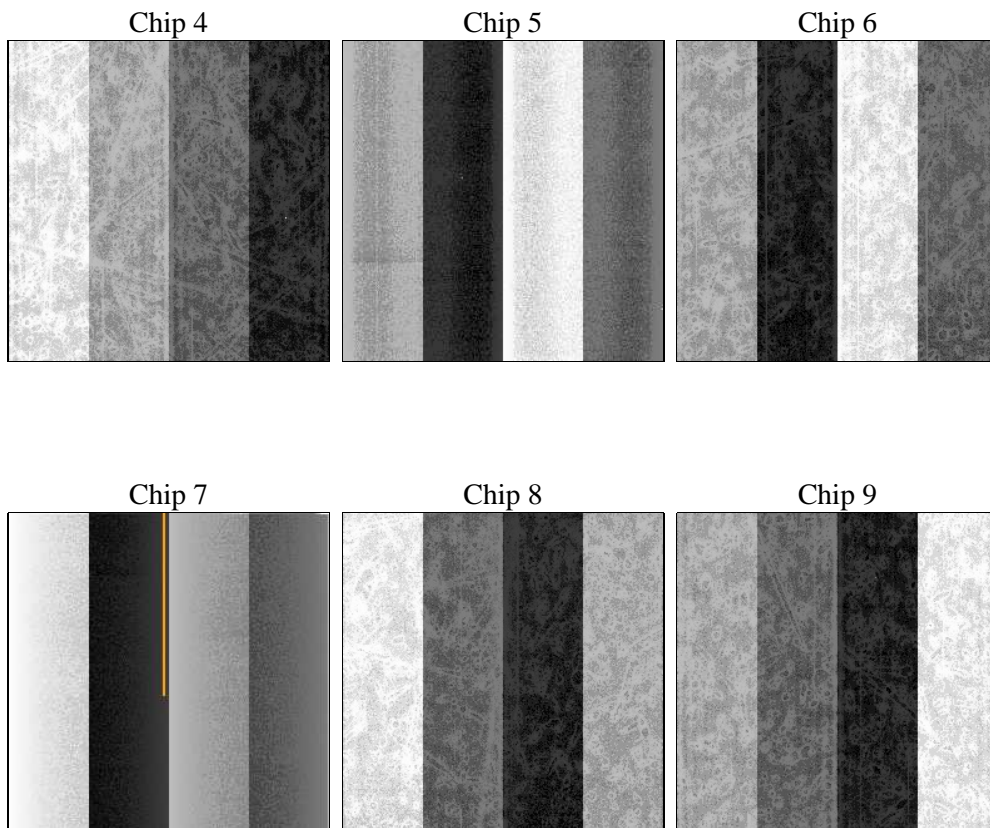
## 2 OBI

### 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	7793.8275868595	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime4	5259.2549625337	Sum of GTIs [s]
date	2012-12-08T12:35:40	Date and time of file creation	ontime5	7793.7865468562	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	5648.2136979997	Sum of GTIs [s]
			ontime7	7793.8275868595	Sum of GTIs [s]
			ontime8	5940.7863373458	Sum of GTIs [s]
			ontime9	5599.7235856652	Sum of GTIs [s]
			l1events	1412035	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	188657	279103	211705	295436	231567	205567	grade 0 events	85027	51628	91274	59633	98506	88223
rejected events	42642	55578	43193	48832	50153	44743		45%	18%	43%	20%	42%	42%
rejected %	22%	19%	20%	16%	21%	21%	grade 1 events	662	434	508	172	533	538
								0%	0%	0%	0%	0%	0%
							grade 2 events	23130	79133	29454	54241	31757	27814
								12%	28%	13%	18%	13%	13%
							grade 3 events	9597	13325	10425	24616	11888	10365
								5%	4%	4%	8%	5%	5%
							grade 4 events	9579	12881	10619	25025	11995	10539
								5%	4%	5%	8%	5%	5%
							grade 5 events	2426	8920	2762	8843	3391	3015
								1%	3%	1%	2%	1%	1%
							grade 6 events	18682	66558	26740	83089	27302	23883
								9%	23%	12%	28%	11%	11%
							grade 7 events	39554	46224	39923	39817	46195	41190
								20%	16%	18%	13%	19%	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	322.0172825355205	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-8.023840164446822	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	270.8090619714253			
[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)	210630758.975559	210630757.95055			
Observation start date	2004-09-03T20:32:39	2004-09-03T20:32:37			
[s] Observation end time (MET)	210672950.02744	210672949.00243			
Observation end date	2004-09-04T08:15:50	2004-09-04T08:15:49			
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)	2012.12.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.7938275868595

### A.2 Comments