

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60002 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 10 2012

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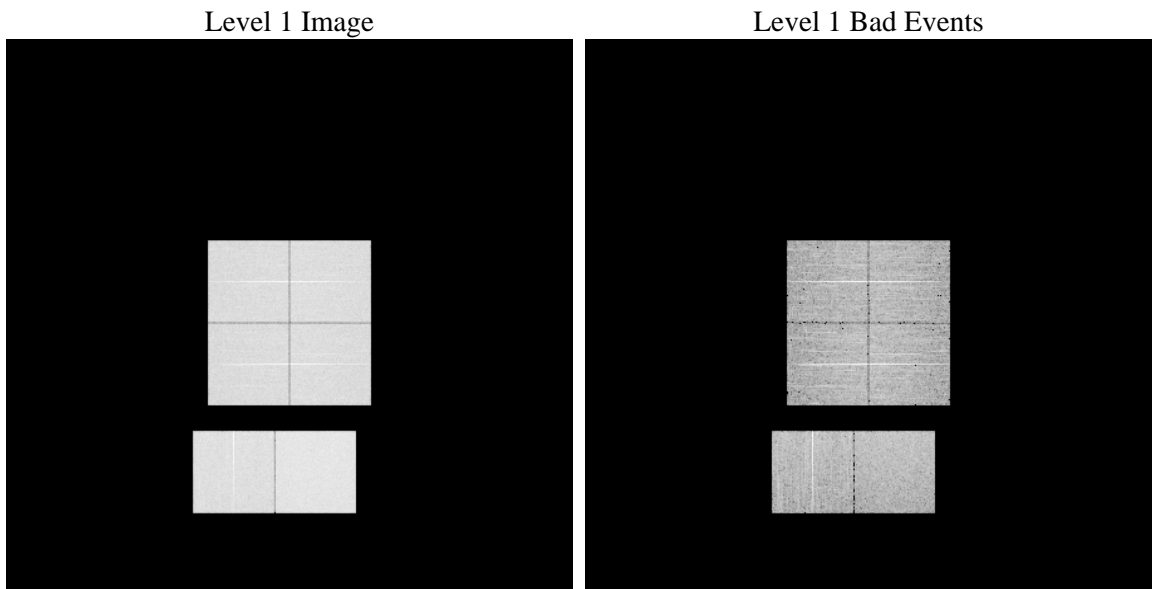
# 1 Front

seq_num	&#160	Sequence number
obs_id	60002	Observation id
title	ACIS-012367 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	18.485761682525	Nominal RA [deg]
dec_nom	15.274968984575	Nominal Dec [deg]
roll_nom	208.45021658289	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8280.2656540871	Sum of GTIs [s]
livetime	8175.4159445976	Livetime [s]
ontime0	6624.170268476	Sum of GTIs [s]
ontime1	6844.5978956819	Sum of GTIs [s]
ontime2	6340.2581681907	Sum of GTIs [s]
ontime3	6494.4495161772	Sum of GTIs [s]
ontime6	7033.8261886239	Sum of GTIs [s]
ontime7	8280.2656540871	Sum of GTIs [s]
l2events	1130941	Number of level 2 events

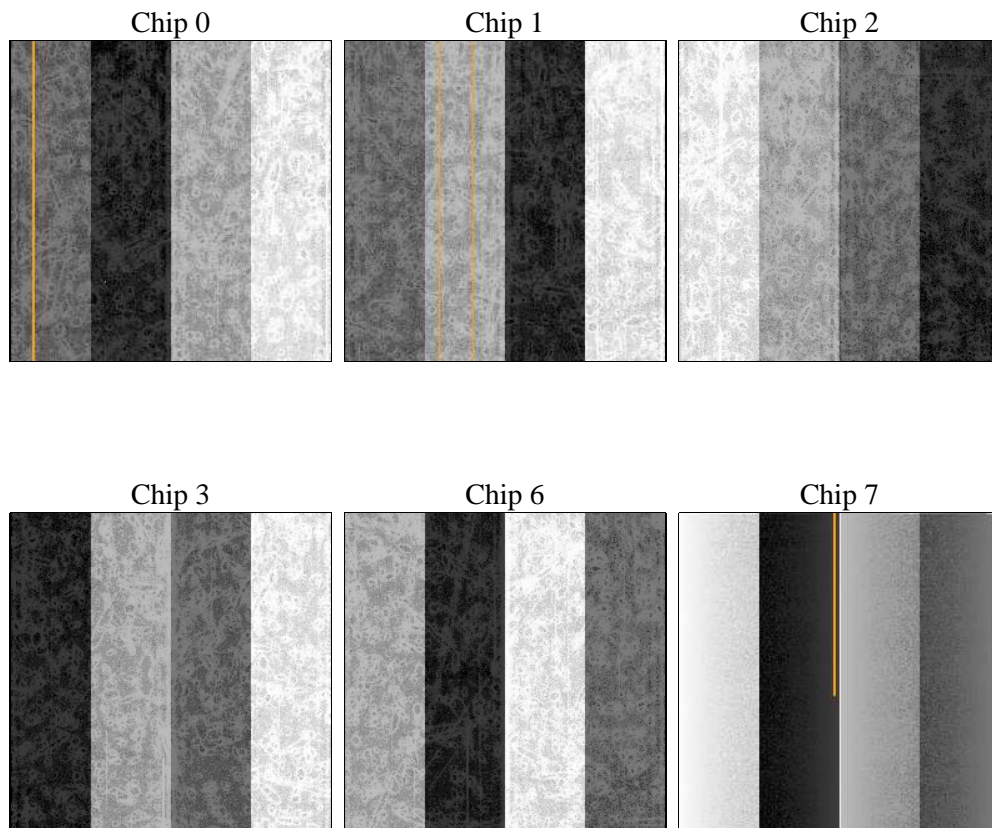
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	8280.2656540871	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime0	6624.170268476	Sum of GTIs [s]
date	2012-12-10T10:53:19	Date and time of file creation	ontime1	6844.5978956819	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	6340.2581681907	Sum of GTIs [s]
			ontime3	6494.4495161772	Sum of GTIs [s]
			ontime6	7033.8261886239	Sum of GTIs [s]
			ontime7	8280.2656540871	Sum of GTIs [s]
			l1events	1497604	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	230908	238970	226284	233606	258779	309057	grade 0 events	100140	102827	98871	101418	109964	60661
rejected events	48493	50228	49464	52150	56136	53383		43%	43%	43%	43%	42%	19%
rejected %	21%	21%	21%	22%	21%	17%	grade 1 events	585	573	646	682	605	226
								0%	0%	0%	0%	0%	0%
							grade 2 events	32061	33836	29969	30943	35021	55989
								13%	14%	13%	13%	13%	18%
							grade 3 events	11826	11983	11616	11926	12689	25744
								5%	5%	5%	5%	4%	8%
							grade 4 events	11852	12027	11617	12026	12511	25376
								5%	5%	5%	5%	4%	8%
							grade 5 events	3126	3174	2782	3194	3517	9637
								1%	1%	1%	1%	1%	3%
							grade 6 events	26536	28069	24847	25143	32547	87904
								11%	11%	10%	10%	12%	28%
							grade 7 events	44782	46481	45936	48274	51925	43520
								19%	19%	20%	20%	20%	14%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	18.48576168252518	Alternating exposures requested	N	N
[deg] Pointing Dec	0	15.27496898457478	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	208.4502165828879			
[mm] SIM focus pos	-0.782348	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-233.592463	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	214329428.590783	214329427.56578			
Observation start date	2004-10-16T15:57:09	2004-10-16T15:57:07			
[s] Observation end time (MET)	214351675.191779	214351674.16677			
Observation end date	2004-10-16T22:07:55	2004-10-16T22:07:54			
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	8.2802656540871

### A.2 Comments