

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60991 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 18 2012

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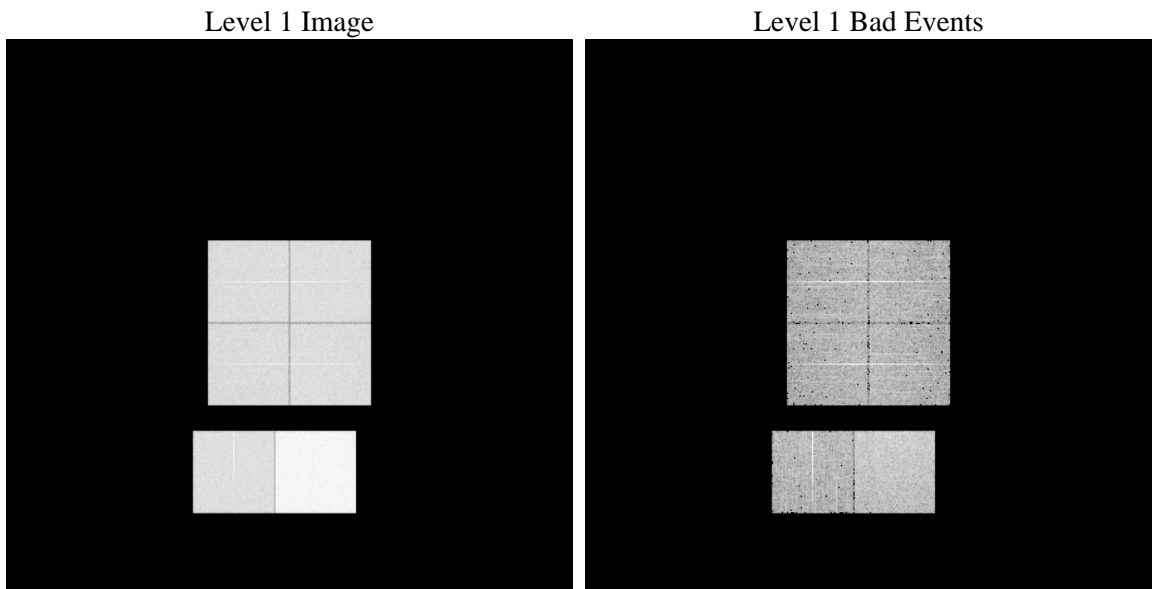
# 1 Front

seq_num	&#160	Sequence number
obs_id	60991	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	&#160	Source name
dtycle	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	138.7942099465	Nominal RA [deg]
dec_nom	63.428488600329	Nominal Dec [deg]
roll_nom	62.353484690167	Nominal Roll [deg]
revision	3	Processing version of data
ontime	8361.4374815822	Sum of GTIs [s]
livetime	8255.5599255372	Livetime [s]
ontime0	3526.2447043955	Sum of GTIs [s]
ontime1	3639.6803763807	Sum of GTIs [s]
ontime2	3402.6231770813	Sum of GTIs [s]
ontime3	3532.4282785952	Sum of GTIs [s]
ontime6	3727.1876888275	Sum of GTIs [s]
ontime7	8361.4374815822	Sum of GTIs [s]
l2events	1290108	Number of level 2 events

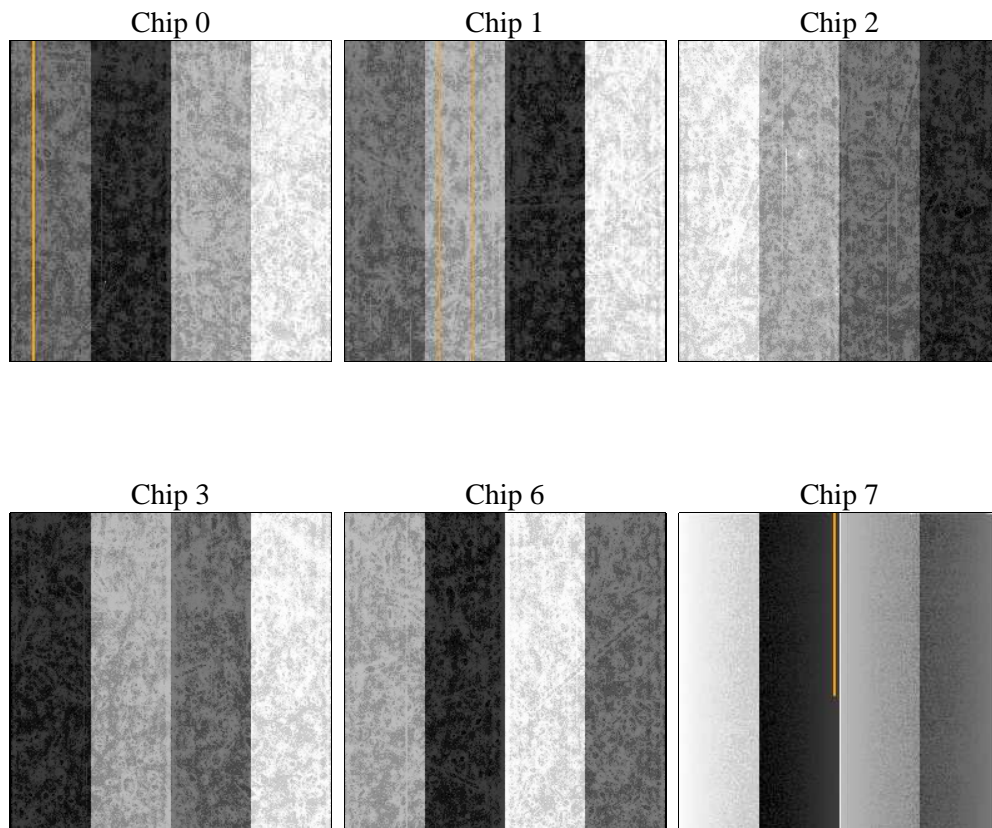
## 2 OBI

### 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	8361.4374815822	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	3526.2447043955	Sum of GTIs [s]
date	2012-12-18T23:20:41	Date and time of file creation	ontime1	3639.6803763807	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	3402.6231770813	Sum of GTIs [s]
			ontime3	3532.4282785952	Sum of GTIs [s]
			ontime6	3727.1876888275	Sum of GTIs [s]
			ontime7	8361.4374815822	Sum of GTIs [s]
			l1events	1556222	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	207305	214557	201393	210867	229650	492450	grade 0 events	97355	100413	96497	101371	106384	112875
rejected events	30838	31458	30254	31844	33781	52741		46%	46%	47%	48%	46%	22%
rejected %	14%	14%	15%	15%	14%	10%	grade 1 events	635	574	671	705	686	322
								0%	0%	0%	0%	0%	0%
							grade 2 events	30891	32943	29081	30432	33882	97274
								14%	15%	14%	14%	14%	19%
							grade 3 events	11472	11751	11301	11606	12226	43668
								5%	5%	5%	5%	5%	8%
							grade 4 events	11493	11836	11130	12013	12172	43513
								5%	5%	5%	5%	5%	8%
							grade 5 events	1923	1929	1801	1956	2231	9134
								0%	0%	0%	0%	0%	1%
							grade 6 events	27207	28462	25256	25702	33545	146804
								13%	13%	12%	12%	14%	29%
							grade 7 events	26329	26649	25656	27082	28524	38860
								12%	12%	12%	12%	12%	7%

## 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	138.7942099465038	Alternating exposures requested	N	N
[deg] Pointing Dec	0	63.42848860032858	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	62.35348469016702			
[mm] SIM focus pos	-0.782348	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	151270435.721427	151270434.69671			
Observation start date	2002-10-17T19:33:56	2002-10-17T19:33:54			
[s] Observation end time (MET)	151292678.22235	151292677.19764			
Observation end date	2002-10-18T01:44:38	2002-10-18T01:44:37			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3614374815822

### A.2 Comments