

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 59530 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 26 2012

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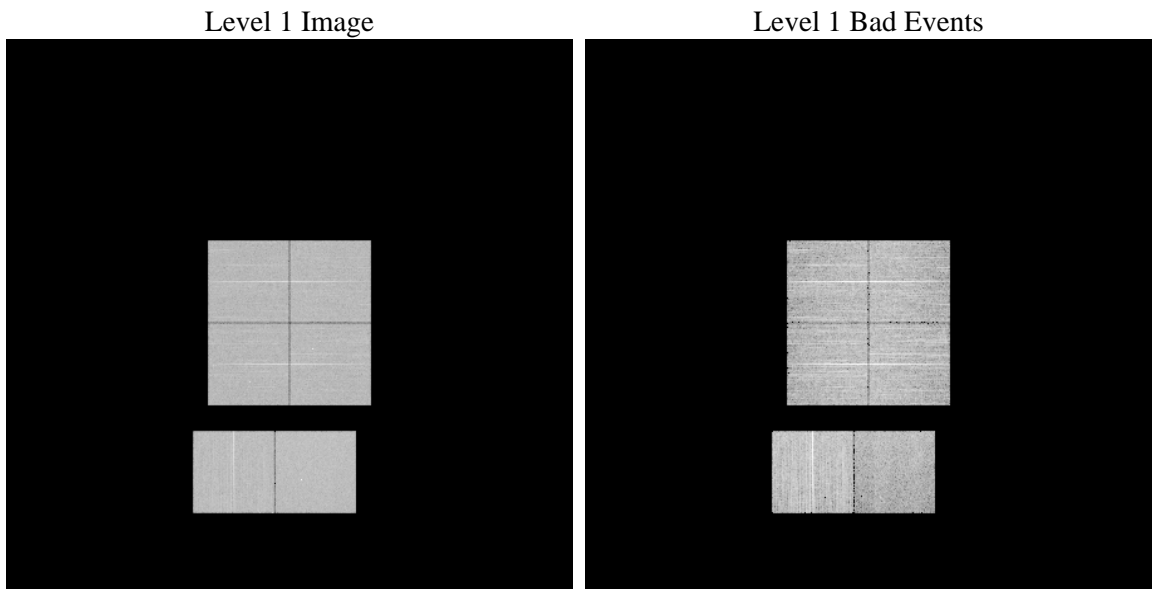
# 1 Front

seq_num	&#160	Sequence number
obs_id	59530	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	337.99363203361	Nominal RA [deg]
dec_nom	-36.97180708865	Nominal Dec [deg]
roll_nom	67.369852416185	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5987.1999776959	Sum of GTIs [s]
livetime	5911.3864465193	Livetime [s]
ontime0	5565.8720292151	Sum of GTIs [s]
ontime1	5831.6327733397	Sum of GTIs [s]
ontime2	5458.91989851	Sum of GTIs [s]
ontime3	5582.0770205855	Sum of GTIs [s]
ontime6	5948.3081940711	Sum of GTIs [s]
ontime7	5987.1999776959	Sum of GTIs [s]
l2events	708095	Number of level 2 events

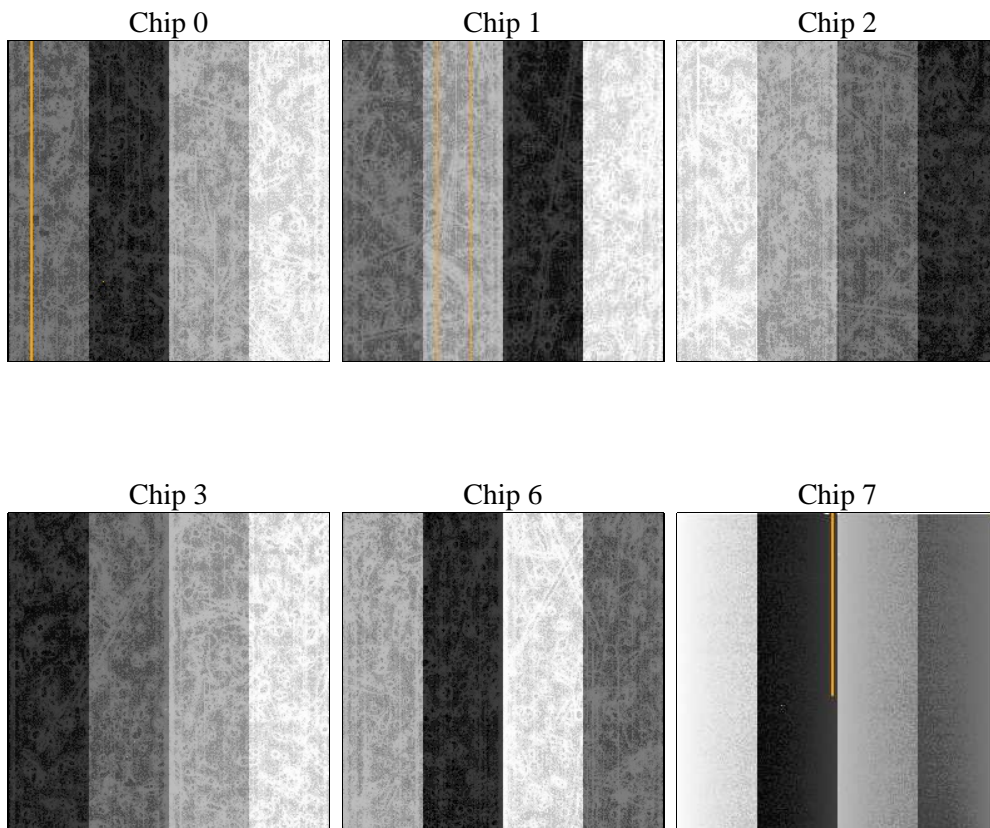
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	5987.1999776959	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	5565.8720292151	Sum of GTIs [s]
date	2012-12-26T17:58:13	Date and time of file creation	ontime1	5831.6327733397	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5458.91989851	Sum of GTIs [s]
			ontime3	5582.0770205855	Sum of GTIs [s]
			ontime6	5948.3081940711	Sum of GTIs [s]
			ontime7	5987.1999776959	Sum of GTIs [s]
			l1events	1081442	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	168314	173987	170088	174315	196773	197965	grade 0 events	32712	28044	31123	32129	22940	32895
rejected events	54317	54293	57637	58013	70647	40775		19%	16%	18%	18%	11%	16%
rejected %	32%	31%	33%	33%	35%	20%	grade 1 events	152	120	162	168	160	112
								0%	0%	0%	0%	0%	0%
							grade 2 events	52963	61575	53781	56124	71734	30643
								31%	35%	31%	32%	36%	15%
							grade 3 events	3498	3225	3316	3407	2415	19432
								2%	1%	1%	1%	1%	9%
							grade 4 events	3376	3148	3336	3333	2533	15173
								2%	1%	1%	1%	1%	7%
							grade 5 events	2148	2142	2195	2406	2279	6062
								1%	1%	1%	1%	1%	3%
							grade 6 events	21448	23702	20895	21375	26504	59047
								12%	13%	12%	12%	13%	29%
							grade 7 events	52017	52031	55280	55373	68208	34601
								30%	29%	32%	31%	34%	17%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	337.9936320336066
[deg] Pointing Dec	0	-36.97180708864954
[deg] Pointing Roll	0.0	67.36985241618468
[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)	238731692.846216	238731691.82119
Observation start date	2005-07-26T02:21:33	2005-07-26T02:21:31
[s] Observation end time (MET)	238752920.597189	238752919.57217
Observation end date	2005-07-26T08:15:21	2005-07-26T08:15:19
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## **2.3 Star Slots**

## **2.4 FID Slots**

# A Summary

## A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.01.23
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.9871999776959

## A.2 Comments

Focal plane temperature deliberately set to about -100 degrees, although the temperature decreased during the last half of the observation to about -115 degrees at the end.