

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 61840 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Sep 3 2012

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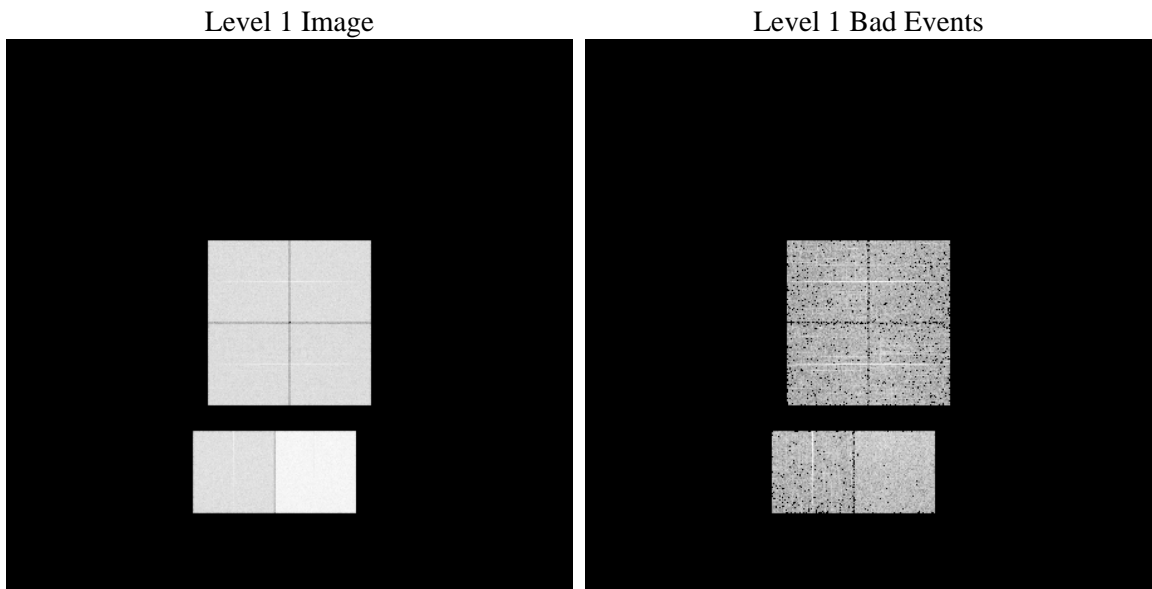
# 1 Front

seq_num	&#160	Sequence number
obs_id	61840	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	208.5559767918	Nominal RA [deg]
dec_nom	69.405769281344	Nominal Dec [deg]
roll_nom	31.288551405794	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5590.5240392387	Sum of GTIs [s]
livetime	5519.7334576444	Livetime [s]
ontime0	2371.087714076	Sum of GTIs [s]
ontime1	2426.226364255	Sum of GTIs [s]
ontime2	2284.7074758112	Sum of GTIs [s]
ontime3	2291.189296633	Sum of GTIs [s]
ontime6	2500.852055043	Sum of GTIs [s]
ontime7	5590.5240392387	Sum of GTIs [s]
l2events	1252853	Number of level 2 events

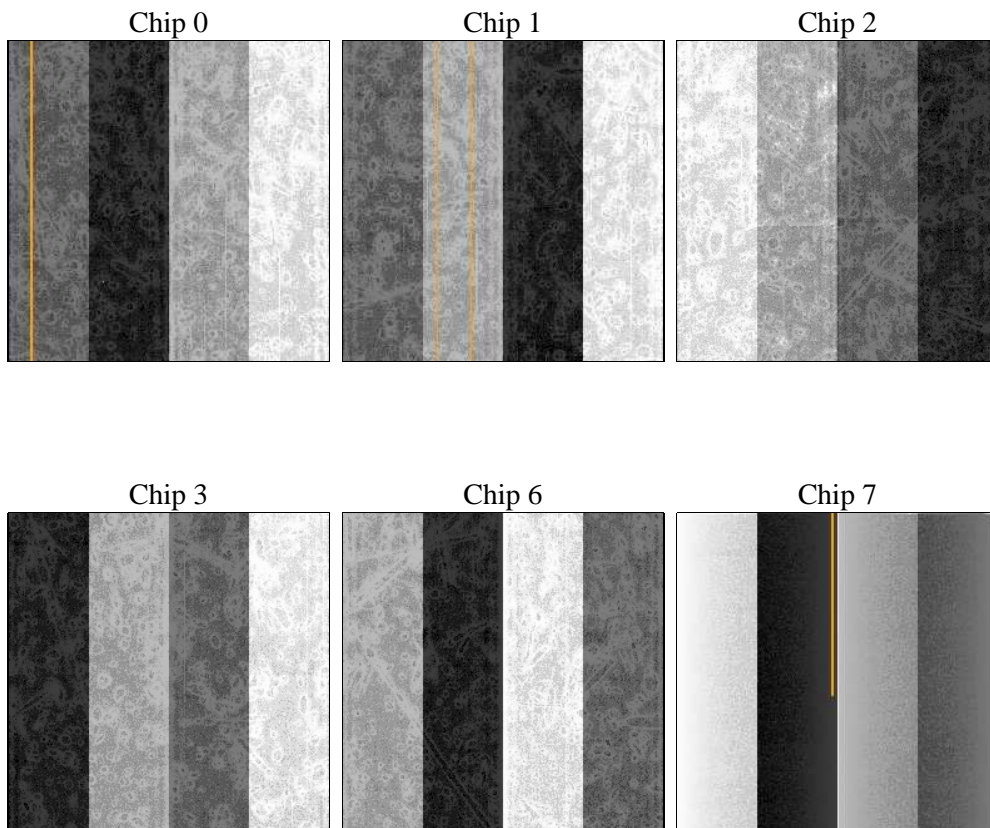
## 2 OBI

### 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	8.4.5	Processing system revision	ontime	5590.5240392387	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime0	2371.087714076	Sum of GTIs [s]
date	2012-09-03T22:45:14	Date and time of file creation	ontime1	2426.226364255	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2284.7074758112	Sum of GTIs [s]
			ontime3	2291.189296633	Sum of GTIs [s]
			ontime6	2500.852055043	Sum of GTIs [s]
			ontime7	5590.5240392387	Sum of GTIs [s]
			l1events	1428936	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	193276	196132	187991	188386	213242	449909	grade 0 events	95894	98602	94730	94638	104735	108661
rejected events	19181	17930	18517	19531	20329	27875		49%	50%	50%	50%	49%	24%
rejected %	9%	9%	9%	10%	9%	6%	grade 1 events	536	467	522	530	539	283
								0%	0%	0%	0%	0%	0%
							grade 2 events	30773	31615	29810	29635	33550	93853
								15%	16%	15%	15%	15%	20%
							grade 3 events	10980	11177	10556	10629	12103	42982
								5%	5%	5%	5%	5%	9%
							grade 4 events	10919	11147	10581	10553	11746	43298
								5%	5%	5%	5%	5%	9%
							grade 5 events	1436	1419	1321	1381	1614	6262
								0%	0%	0%	0%	0%	1%
							grade 6 events	25529	25661	24040	23630	30779	133478
								13%	13%	12%	12%	14%	29%
							grade 7 events	17209	16044	16431	17390	18176	21092
								8%	8%	8%	9%	8%	4%

## 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	208.5559767918049
[deg] Pointing Dec	0	69.40576928134445
[deg] Pointing Roll	0.0	31.28855140579358
[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)	91600914.98899999	91600914.220496
Observation start date	2000-11-26T04:41:55	2000-11-26T04:41:54
[s] Observation end time (MET)	91644664.04099999	91644663.272168
Observation end date	2000-11-26T16:51:04	2000-11-26T16:51:03
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	0.000000	3.2

## 2.3 Star Slots

## 2.4 FID Slots

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.09.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.5905240392387

### A.2 Comments