

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51885 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : May 16 2015

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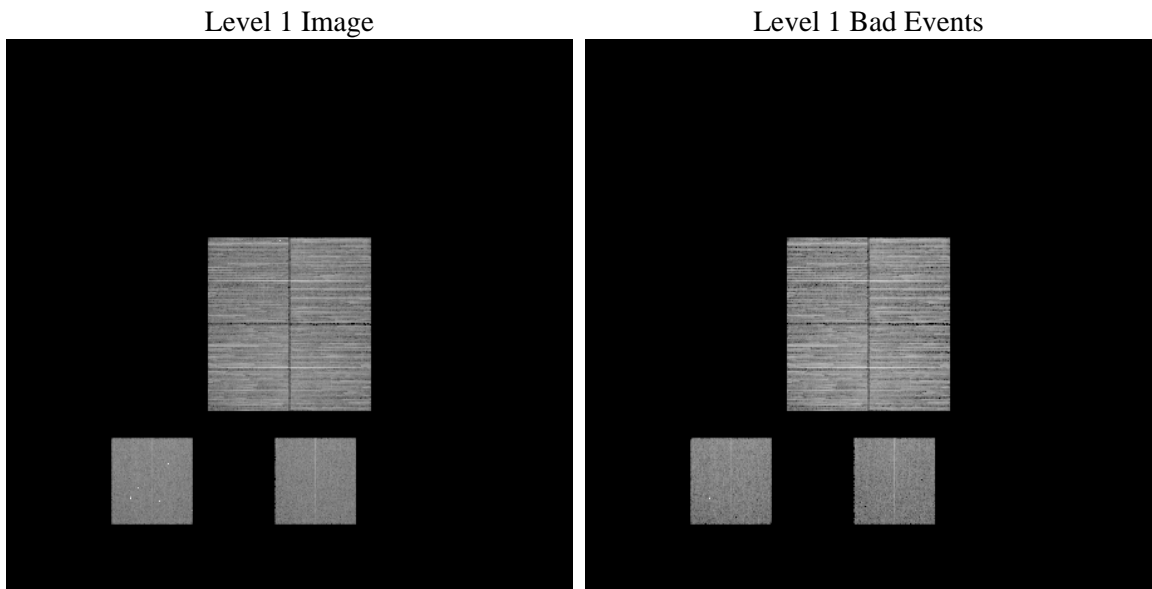
# 1 Front

seq_num	&#160	Sequence number
obs_id	51885	Observation id
title	ACIS-012357 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	210.50079735323	Nominal RA [deg]
dec_nom	-7.0288437576324	Nominal Dec [deg]
roll_nom	238.66806997716	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6614.4000985622	Sum of GTIs [s]
livetime	6530.6445818007	Livetime [s]
ontime0	6607.9125950336	Sum of GTIs [s]
ontime1	6614.353635788	Sum of GTIs [s]
ontime2	6611.0715554953	Sum of GTIs [s]
ontime3	6614.4000985622	Sum of GTIs [s]
ontime5	6614.2715557814	Sum of GTIs [s]
ontime7	6614.4000985622	Sum of GTIs [s]
l2events	140449	Number of level 2 events

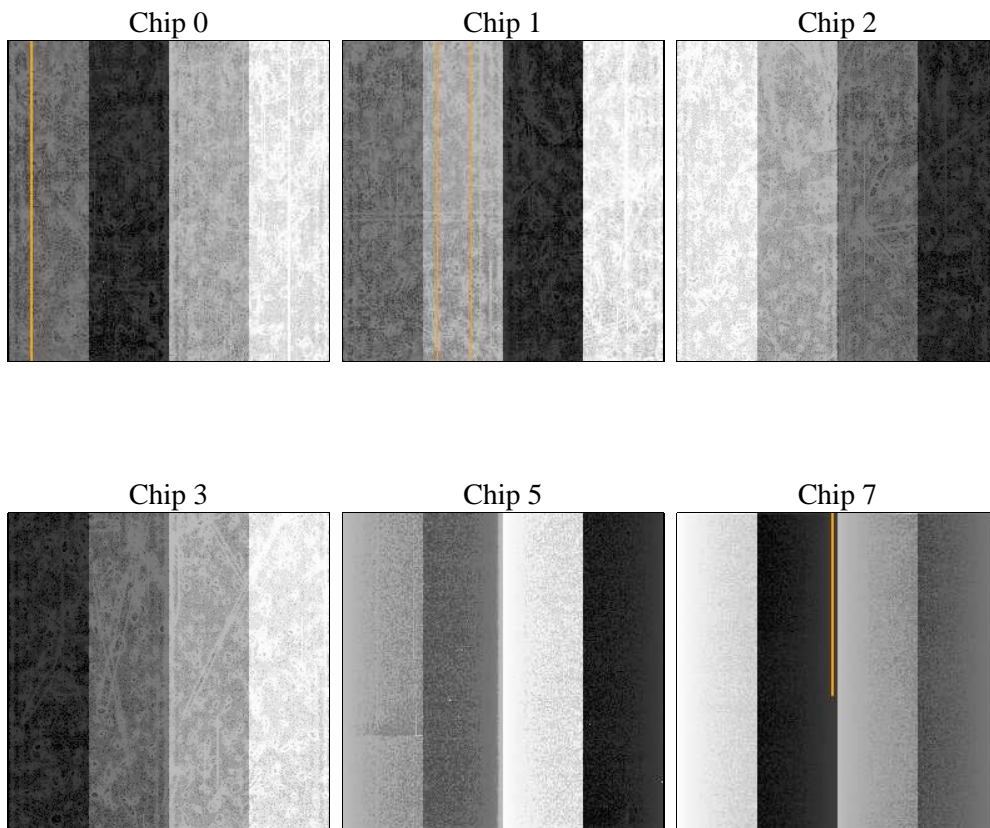
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	6614.4000985622	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	6607.9125950336	Sum of GTIs [s]
date	2015-05-16T17:41:21	Date and time of file creation	ontime1	6614.353635788	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6611.0715554953	Sum of GTIs [s]
			ontime3	6614.4000985622	Sum of GTIs [s]
			ontime5	6614.2715557814	Sum of GTIs [s]
			ontime7	6614.4000985622	Sum of GTIs [s]
			l1events	661750	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 5	ccd 7
level 1 events	105310	120286	126077	118826	100938	90313	grade 0 events	9468	8217	8845	8985	7177	4785
rejected events	86994	102829	108468	101147	56432	52786		8%	6%	7%	7%	7%	5%
rejected %	82%	85%	86%	85%	55%	58%	grade 1 events	56	48	52	54	97	86
								0%	0%	0%	0%	0%	0%
							grade 2 events	3643	3877	3574	3488	15510	9323
								3%	3%	2%	2%	15%	10%
							grade 3 events	1263	1169	1298	1251	1340	3004
								1%	0%	1%	1%	1%	3%
							grade 4 events	1200	1155	1310	1302	1367	2959
								1%	0%	1%	1%	1%	3%
							grade 5 events	2216	2262	2162	2437	4954	5947
								2%	1%	1%	2%	4%	6%
							grade 6 events	2941	3216	2761	2807	19596	17830
								2%	2%	2%	2%	19%	19%
							grade 7 events	84523	100342	106075	98502	50897	46379
								80%	83%	84%	82%	50%	51%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012357	ACIS-012357
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	210.5007973532306
[deg] Pointing Dec	0	-7.028843757632432
[deg] Pointing Roll	0.0	238.6680699771578
[mm] SIM focus pos	-1.429586	-1.428180813131781
[mm] SIM defocus	0.1037507710433287	0.1051558262725154
[mm] SIM translation stage pos	250.455976	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	548146752.74333	548146751.71833
Observation start date	2015-05-16T06:59:13	2015-05-16T06:59:11
[s] Observation end time (MET)	548155153.643801	548155152.6188
Observation end date	2015-05-16T09:19:14	2015-05-16T09:19:12
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
Number of optional ACIS chips dropped	0	0
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)	2015.05.18
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.6144000985622

### A.2 Comments