

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 52036 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 3 2015

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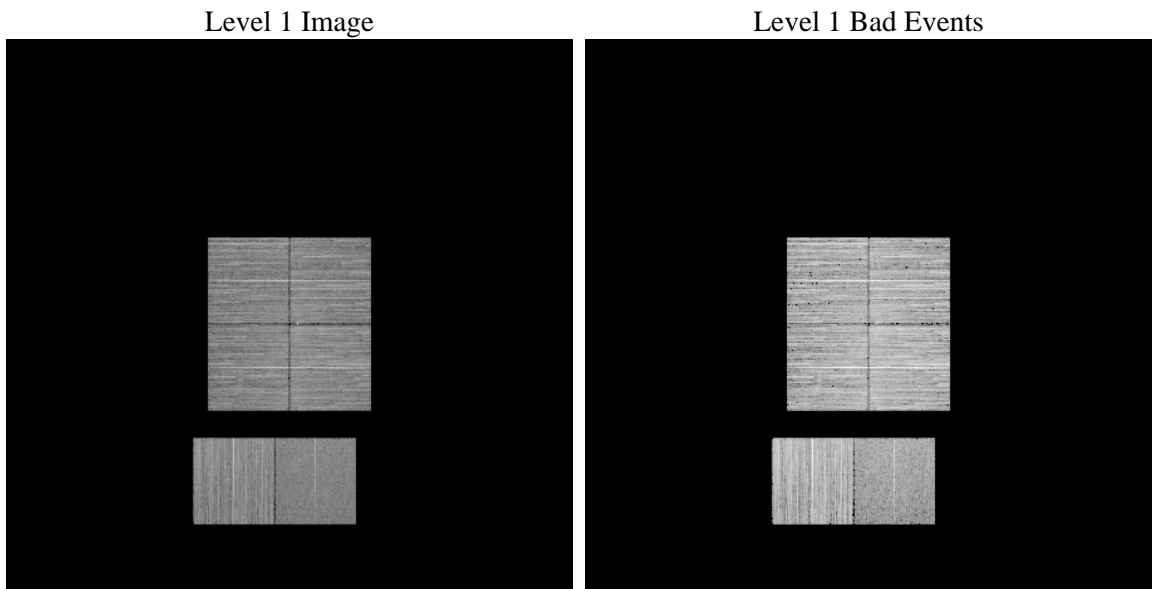
# 1 Front

seq_num	&#160	Sequence number
obs_id	52036	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	156.6940889057	Nominal RA [deg]
dec_nom	-16.303731638736	Nominal Dec [deg]
roll_nom	343.29770923055	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6070.0944381952	Sum of GTIs [s]
livetime	5993.2312474467	Livetime [s]
ontime0	6070.0533981323	Sum of GTIs [s]
ontime1	6070.0123581886	Sum of GTIs [s]
ontime2	6069.9713181257	Sum of GTIs [s]
ontime3	6070.1354781389	Sum of GTIs [s]
ontime6	6069.930278182	Sum of GTIs [s]
ontime7	6070.0944381952	Sum of GTIs [s]
l2events	159837	Number of level 2 events

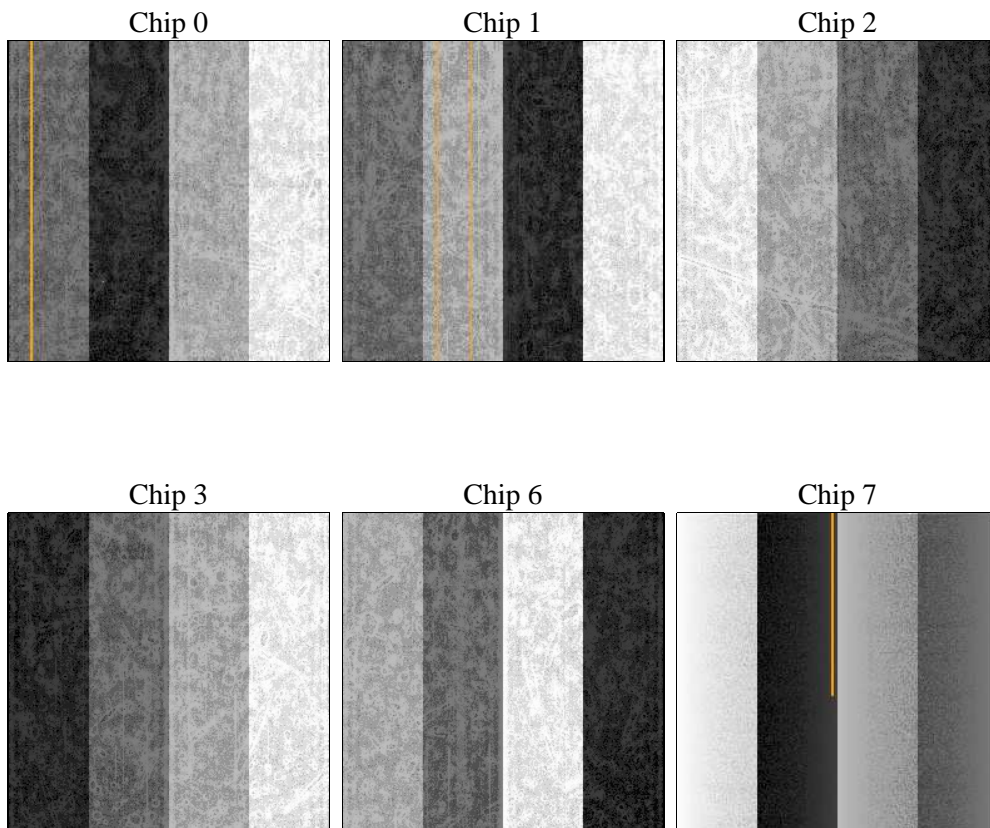
## 2 OBI

### 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	10.3.3	Processing system revision	ontime	6070.0944381952	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	6070.0533981323	Sum of GTIs [s]
date	2015-03-03T17:46:05	Date and time of file creation	ontime1	6070.0123581886	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	6069.9713181257	Sum of GTIs [s]
			ontime3	6070.1354781389	Sum of GTIs [s]
			ontime6	6069.930278182	Sum of GTIs [s]
			ontime7	6070.0944381952	Sum of GTIs [s]
			l1events	684732	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	110646	119864	111649	131869	120012	90692	grade 0 events	11857	12763	12338	12585	11168	5836
rejected events	85262	92299	86740	105845	93432	49903		10%	10%	11%	9%	9%	6%
rejected %	77%	77%	77%	80%	77%	55%	grade 1 events	51	52	62	81	34	61
								0%	0%	0%	0%	0%	0%
							grade 2 events	5990	7045	5392	5493	7063	10651
								5%	5%	4%	4%	5%	11%
							grade 3 events	1577	1465	1605	1707	1402	2774
								1%	1%	1%	1%	1%	3%
							grade 4 events	1444	1459	1521	1723	1469	2852
								1%	1%	1%	1%	1%	3%
							grade 5 events	1866	2003	1899	2218	2069	4790
								1%	1%	1%	1%	1%	5%
							grade 6 events	4780	5109	4325	4763	5745	19146
								4%	4%	3%	3%	4%	21%
							grade 7 events	83081	89968	84507	103299	91062	44582
								75%	75%	75%	78%	75%	49%

## 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	156.6940889057011
[deg] Pointing Dec	0	-16.30373163873586
[deg] Pointing Roll	0.0	343.2977092305517
[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)	541747683.534965	541747682.5099699
Observation start date	2015-03-03T05:28:04	2015-03-03T05:28:02
[s] Observation end time (MET)	541758566.985574	541758565.96057
Observation end date	2015-03-03T08:29:27	2015-03-03T08:29:25
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)	2015.03.03
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0700944381952

### A.2 Comments