

# V&V Reference Report

## L2 ASCDS Version : 10.3.3

Observation 51989 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Mar 30 2015

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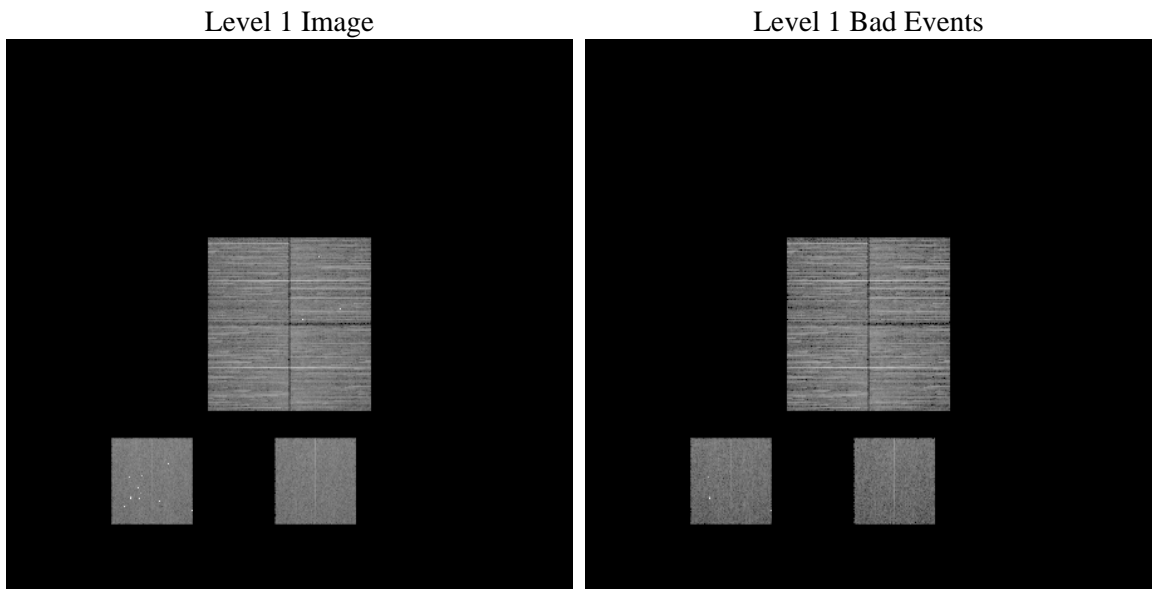
# 1 Front

seq_num	&#160	Sequence number
obs_id	51989	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	201.16925160646	Nominal RA [deg]
dec_nom	17.100593483213	Nominal Dec [deg]
roll_nom	145.8715177907	Nominal Roll [deg]
revision	1	Processing version of data
ontime	7275.8428338766	Sum of GTIs [s]
livetime	7183.7117309275	Livetime [s]
ontime0	7275.8017938137	Sum of GTIs [s]
ontime1	7275.76075387	Sum of GTIs [s]
ontime2	7275.7197138071	Sum of GTIs [s]
ontime3	7275.8838738203	Sum of GTIs [s]
ontime5	7275.6786738634	Sum of GTIs [s]
ontime7	7275.8428338766	Sum of GTIs [s]
l2events	151778	Number of level 2 events

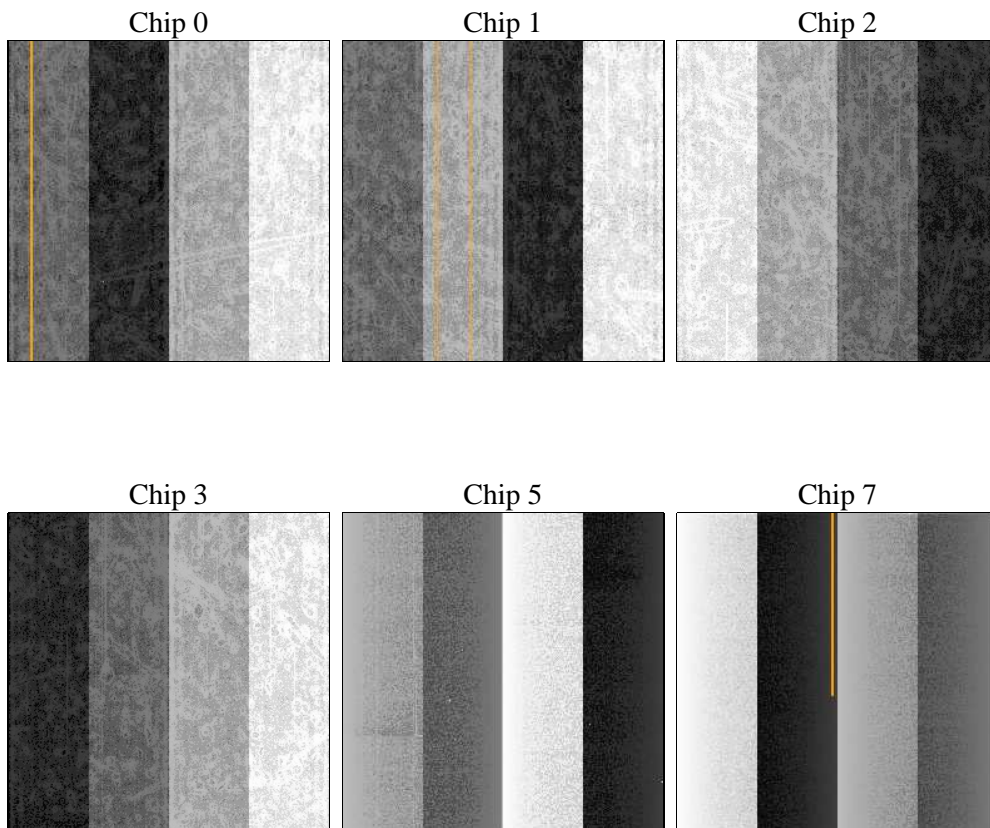
## 2 OBI

### 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	7275.8428338766	Sum of GTIs [s]
caldsver	4.6.7	&#160	ontime0	7275.8017938137	Sum of GTIs [s]
date	2015-03-30T20:43:19	Date and time of file creation	ontime1	7275.76075387	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	7275.7197138071	Sum of GTIs [s]
			ontime3	7275.8838738203	Sum of GTIs [s]
			ontime5	7275.6786738634	Sum of GTIs [s]
			ontime7	7275.8428338766	Sum of GTIs [s]
			l1events	685767	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	112312	125788	122458	116593	114411	94205	grade 0 events	9404	13951	9779	9949	11523	4912
rejected events	92520	100998	103080	96860	59974	54851		8%	11%	7%	8%	10%	5%
rejected %	82%	80%	84%	83%	52%	58%	grade 1 events	45	57	59	47	139	59
								0%	0%	0%	0%	0%	0%
							grade 2 events	4367	4753	3864	3912	17639	9881
								3%	3%	3%	3%	15%	10%
							grade 3 events	1338	1281	1383	1387	1742	2909
								1%	1%	1%	1%	1%	3%
							grade 4 events	1348	1343	1385	1388	1680	2765
								1%	1%	1%	1%	1%	2%
							grade 5 events	2283	2161	2008	2420	4819	5631
								2%	1%	1%	2%	4%	5%
							grade 6 events	3335	3462	2967	3097	21853	18887
								2%	2%	2%	2%	19%	20%
							grade 7 events	90192	98780	101013	94393	55016	49161
								80%	78%	82%	80%	48%	52%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012357	ACIS-012357	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	SECONDARY	SECONDARY	On-chip summing requested	N	N
[deg] Pointing RA	0	201.1692516064626	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	17.10059348321262	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	145.8715177906952	[s] Primary exposure time	3.2	3.2
[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)	544031344.712783	544031343.68778			
Observation start date	2015-03-29T15:49:05	2015-03-29T15:49:03			
[s] Observation end time (MET)	544041752.563367	544041751.53837			
Observation end date	2015-03-29T18:42:33	2015-03-29T18:42:31			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.03.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.2758428338766

### A.2 Comments