

# V&V Reference Report

## L2 ASCDS Version : 10.1

Observation 53285 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 22 2013

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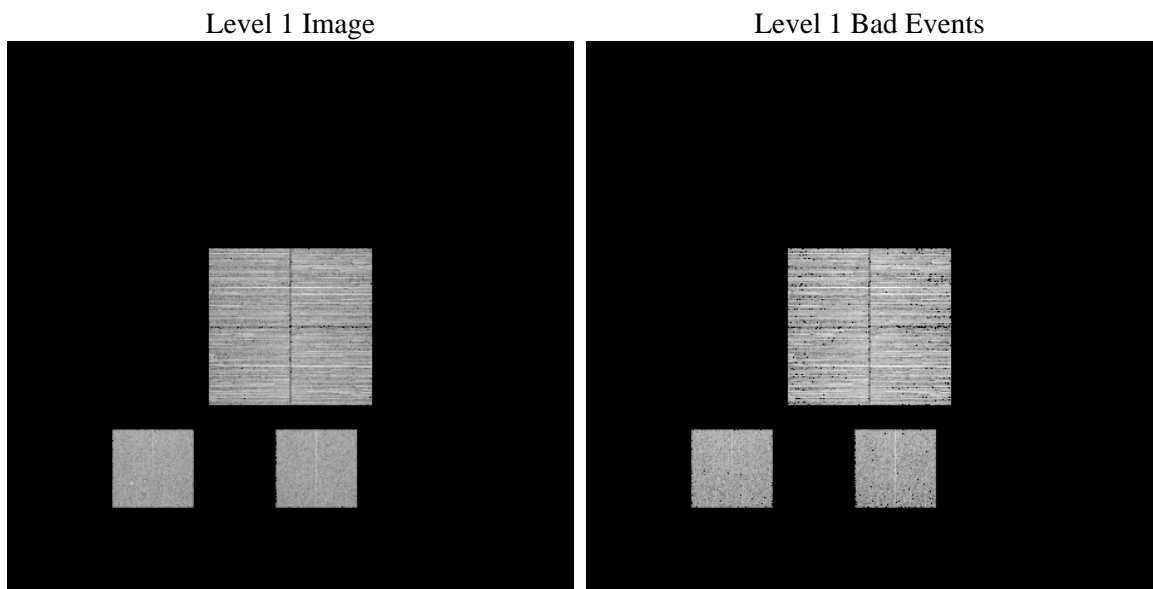
# 1 Front

seq_num	&#160	Sequence number
obs_id	53285	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	260.02274733444	Nominal RA [deg]
dec_nom	8.2822345999227	Nominal Dec [deg]
roll_nom	289.05914114038	Nominal Roll [deg]
revision	1	Processing version of data
ontime	3819.9760429859	Sum of GTIs [s]
livetime	3771.6052062162	Livetime [s]
ontime0	3819.9350029826	Sum of GTIs [s]
ontime1	3819.8939629793	Sum of GTIs [s]
ontime2	3819.852922976	Sum of GTIs [s]
ontime3	3820.0170829892	Sum of GTIs [s]
ontime5	3819.8118829727	Sum of GTIs [s]
ontime7	3819.9760429859	Sum of GTIs [s]
l2events	101378	Number of level 2 events

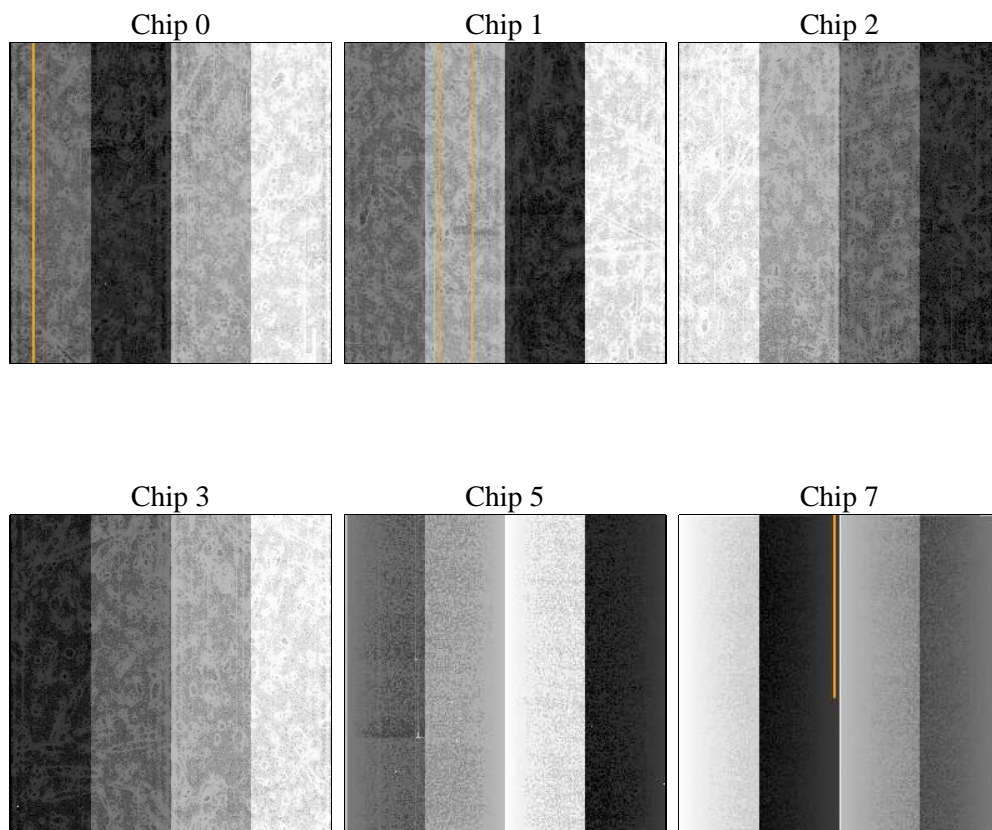
## 2 OBI

### 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	10.1	Processing system revision	ontime	3819.9760429859	Sum of GTIs [s]
caldbver	4.5.8	&#160	ontime0	3819.9350029826	Sum of GTIs [s]
date	2013-10-22T06:22:00	Date and time of file creation	ontime1	3819.8939629793	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	3819.852922976	Sum of GTIs [s]
			ontime3	3820.0170829892	Sum of GTIs [s]
			ontime5	3819.8118829727	Sum of GTIs [s]
			ontime7	3819.9760429859	Sum of GTIs [s]
			l1events	406855	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	70031	75705	70940	74119	59493	56567	grade 0 events	6688	6216	6903	7063	2188	3395
rejected events	56250	62029	57412	60269	32836	31289		9%	8%	9%	9%	3%	6%
rejected %	80%	81%	80%	81%	55%	55%	grade 1 events	36	30	44	51	80	28
								0%	0%	0%	0%	0%	0%
							grade 2 events	2974	3403	2793	2845	9893	6318
								4%	4%	3%	3%	16%	11%
							grade 3 events	957	877	903	896	869	1916
								1%	1%	1%	1%	1%	3%
							grade 4 events	863	809	932	928	786	1897
								1%	1%	1%	1%	1%	3%
							grade 5 events	1305	1203	1239	1395	2388	3139
								1%	1%	1%	1%	4%	5%
							grade 6 events	2299	2371	1997	2118	12921	11752
								3%	3%	2%	2%	21%	20%
							grade 7 events	54909	60796	56129	58823	30368	28122
								78%	80%	79%	79%	51%	49%

## 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	260.0227473344369	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	8.282234599922729	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	289.0591411403799	[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)	498785322.757583	498785321.73258			
Observation start date	2013-10-21T23:28:43	2013-10-21T23:28:41			
[s] Observation end time (MET)	498791040.207896	498791039.1829			
Observation end date	2013-10-22T01:04:00	2013-10-22T01:03:59			
Read mode	TIMED	TIMED			

## **2.3 Star Slots**

## **2.4 FID Slots**

## A Summary

### A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.10.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.8199760429859

### A.2 Comments