

# V&V Reference Report

## L2 ASCDS Version : 10.1

Observation 53289 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Oct 22 2013

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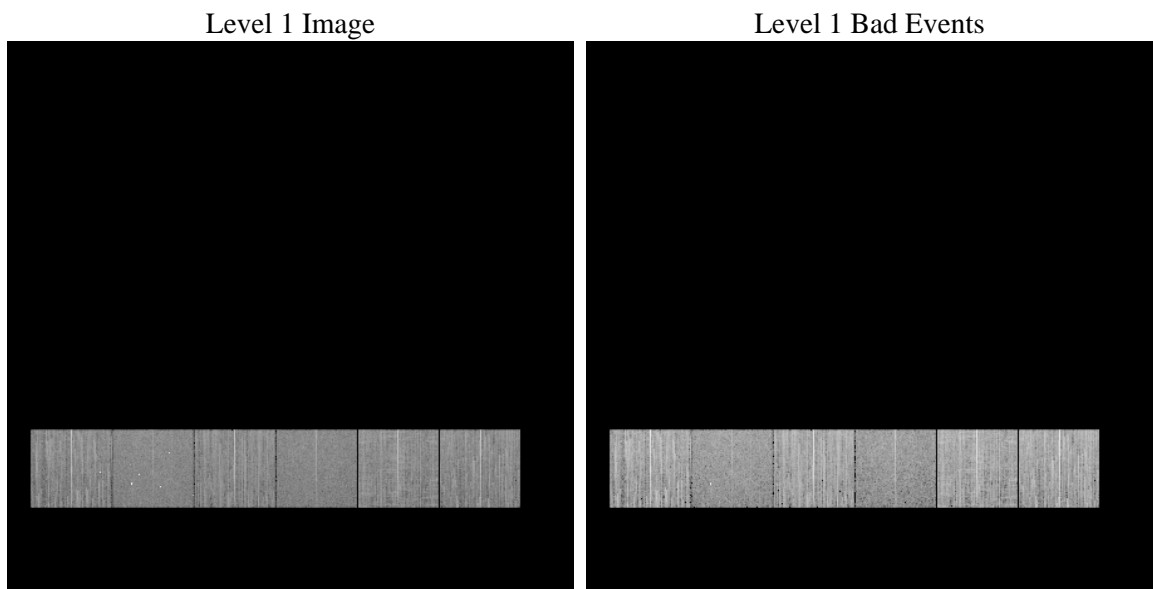
# 1 Front

seq_num	&#160	Sequence number
obs_id	53289	Observation id
title	ACIS-456789 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	2.5081184310782	Nominal RA [deg]
dec_nom	18.972659358541	Nominal Dec [deg]
roll_nom	253.89084544808	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6060.7999774814	Sum of GTIs [s]
livetime	5984.0544787909	Livetime [s]
ontime4	6060.7999774814	Sum of GTIs [s]
ontime5	6060.7999774814	Sum of GTIs [s]
ontime6	6060.7999774814	Sum of GTIs [s]
ontime7	6060.7999774814	Sum of GTIs [s]
ontime8	6060.7999774814	Sum of GTIs [s]
ontime9	6060.7999774814	Sum of GTIs [s]
l2events	163120	Number of level 2 events

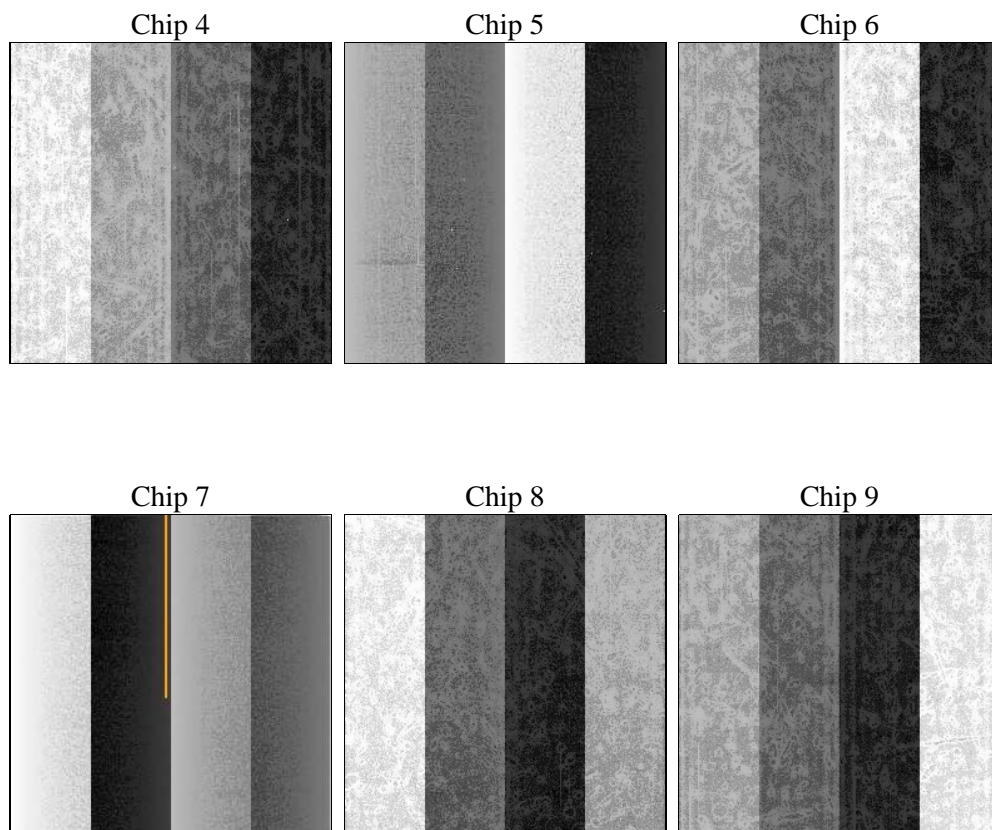
## 2 OBI

### 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	6060.7999774814	Sum of GTIs [s]
caldsver	4.5.8	&#160	ontime4	6060.7999774814	Sum of GTIs [s]
date	2013-10-22T05:46:29	Date and time of file creation	ontime5	6060.7999774814	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	6060.7999774814	Sum of GTIs [s]
			ontime7	6060.7999774814	Sum of GTIs [s]
			ontime8	6060.7999774814	Sum of GTIs [s]
			ontime9	6060.7999774814	Sum of GTIs [s]
			l1events	640488	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	110274	100930	108822	90541	116697	113224	grade 0 events	13262	7624	11020	5832	13075	11023
rejected events	86826	53748	85927	49765	87667	91100		12%	7%	10%	6%	11%	9%
rejected %	78%	53%	78%	54%	75%	80%	grade 1 events	100	271	64	57	65	50
								0%	0%	0%	0%	0%	0%
							grade 2 events	4184	17044	4956	10227	6151	4423
								3%	16%	4%	11%	5%	3%
							grade 3 events	1586	1401	1451	3214	2085	1479
								1%	1%	1%	3%	1%	1%
							grade 4 events	1462	1332	1423	3154	2112	1506
								1%	1%	1%	3%	1%	1%
							grade 5 events	2267	4198	2124	5518	2989	2584
								2%	4%	1%	6%	2%	2%
							grade 6 events	2970	19810	4058	18371	5618	3693
								2%	19%	3%	20%	4%	3%
							grade 7 events	84443	49250	83726	44168	84602	88466
								76%	48%	76%	48%	72%	78%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	2.508118431078231	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	18.97265935854129	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	253.8908454480808	[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)	498756649.406014	498756648.38101			
Observation start date	2013-10-21T15:30:49	2013-10-21T15:30:48			
[s] Observation end time (MET)	498770300.356761	498770299.33176			
Observation end date	2013-10-21T19:18:20	2013-10-21T19:18:19			
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	6.0607999774814

### A.2 Comments