

# V&V Reference Report

## L2 ASCDS Version : 10.2.1

Observation 52980 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Feb 20 2014

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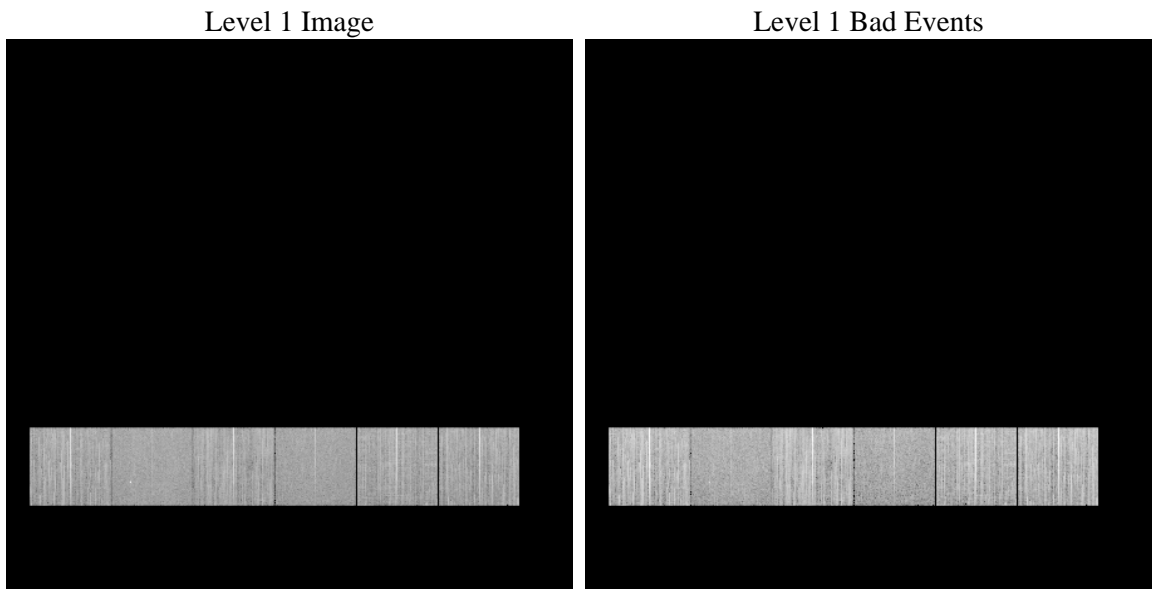
# 1 Front

seq_num	&#160	Sequence number
obs_id	52980	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	285.99397682737	Nominal RA [deg]
dec_nom	8.0281315492111	Nominal Dec [deg]
roll_nom	69.095155916155	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8105.5999698639	Sum of GTIs [s]
livetime	8002.9619824391	Livetime [s]
ontime4	8105.5999698639	Sum of GTIs [s]
ontime5	8105.5999698639	Sum of GTIs [s]
ontime6	8105.5999698639	Sum of GTIs [s]
ontime7	8105.5999698639	Sum of GTIs [s]
ontime8	8105.5999698639	Sum of GTIs [s]
ontime9	8105.5999698639	Sum of GTIs [s]
l2events	198702	Number of level 2 events

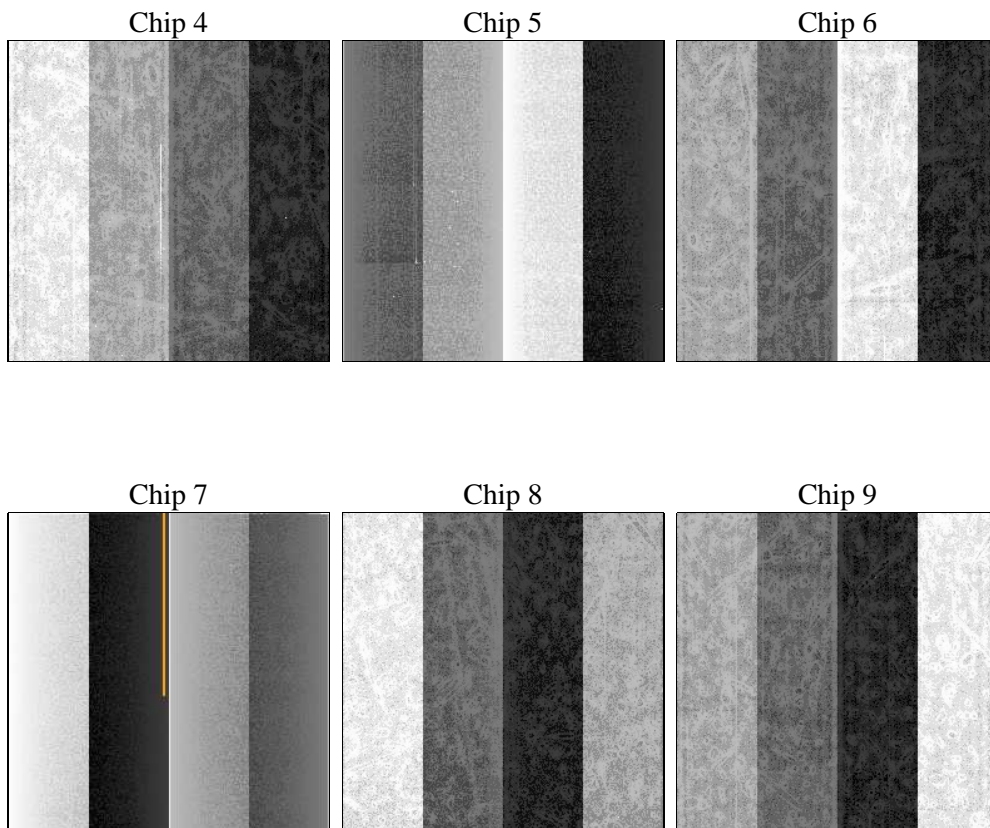
## 2 OBI

### 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	10.2.1	Processing system revision	ontime	8105.5999698639	Sum of GTIs [s]
caldbver	4.6.0	&#160	ontime4	8105.5999698639	Sum of GTIs [s]
date	2014-02-20T23:45:46	Date and time of file creation	ontime5	8105.5999698639	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8105.5999698639	Sum of GTIs [s]
			ontime7	8105.5999698639	Sum of GTIs [s]
			ontime8	8105.5999698639	Sum of GTIs [s]
			ontime9	8105.5999698639	Sum of GTIs [s]
			l1events	779963	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	139450	118039	138344	111383	134343	138404	grade 0 events	14734	4036	12431	6655	15958	13264
rejected events	112087	66821	110542	62569	99278	111049		10%	3%	8%	5%	11%	9%
rejected %	80%	56%	79%	56%	73%	80%	grade 1 events	96	150	67	72	74	77
								0%	0%	0%	0%	0%	0%
							grade 2 events	5520	19706	7509	12526	7717	6134
								3%	16%	5%	11%	5%	4%
							grade 3 events	1967	1680	1609	3744	2557	1811
								1%	1%	1%	3%	1%	1%
							grade 4 events	1890	1651	1653	3663	2494	1826
								1%	1%	1%	3%	1%	1%
							grade 5 events	2690	4803	2481	6115	3438	2908
								1%	4%	1%	5%	2%	2%
							grade 6 events	3884	25277	5199	23295	7073	4941
								2%	21%	3%	20%	5%	3%
							grade 7 events	108669	60736	107395	55313	95032	107443
								77%	51%	77%	49%	70%	77%

## 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	OVERRIDE	OVERRIDE
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	285.9939768273657	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	8.02813154921107	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	69.09515591615457	[s] Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.4281808131	-1.4281808131			
[mm] SIM defocus	0.1051557500557434	0.1051557500557434			
SIM translation stage pos (mm)	250.4635187649	250.4635187649			
[mm] SIM translation stage offset	-0.007542945905271381	-0.007542945905271381			
[s] Observation start time (MET)	509297091.934608	509297091.934608			
Observation start date	2014-02-20T15:24:52	2014-02-20T15:24:51			
[s] Observation end time (MET)	509307478.83387	509307478.83387			
Observation end date	2014-02-20T18:17:59	2014-02-20T18:17:58			
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)	2014.02.20
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1055999698639

### A.2 Comments