

# V&V Reference Report

## L2 ASCDS Version : 10.2.1

Observation 52882 - L2 Version 1  
Chandra X-Ray Center

L2 Processing Date : Apr 1 2014

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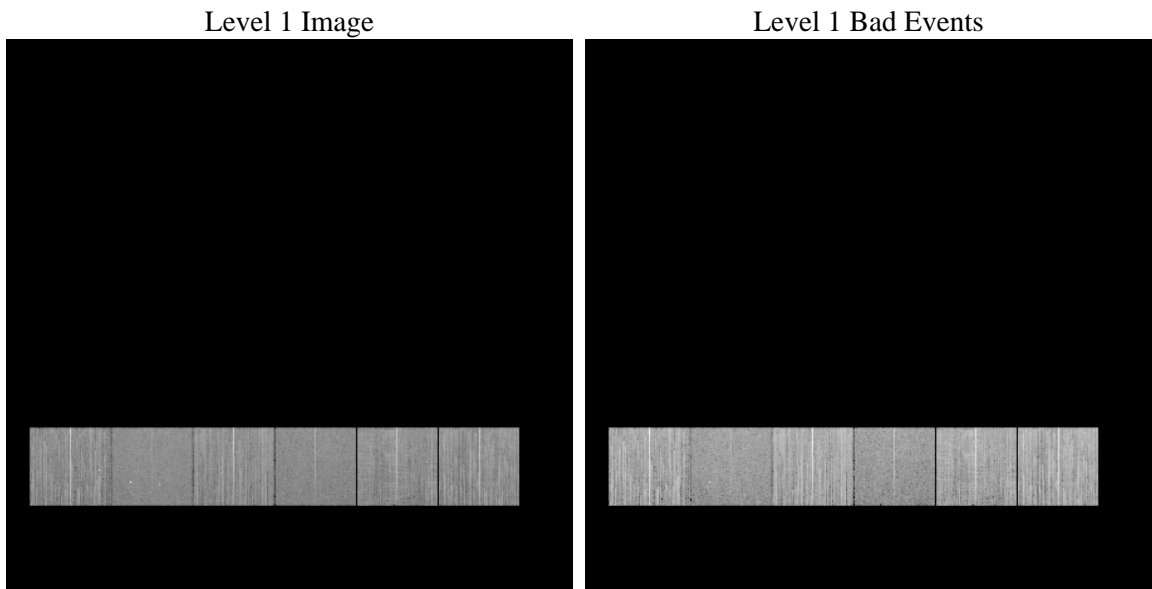
# 1 Front

seq_num	&#160	Sequence number
obs_id	52882	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	174.51028364342	Nominal RA [deg]
dec_nom	14.74645761179	Nominal Dec [deg]
roll_nom	220.60878343156	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8284.7999691963	Sum of GTIs [s]
livetime	8179.8928434787	Livetime [s]
ontime4	8213.4273645878	Sum of GTIs [s]
ontime5	8284.7999691963	Sum of GTIs [s]
ontime6	8219.9504750967	Sum of GTIs [s]
ontime7	8284.7999691963	Sum of GTIs [s]
ontime8	8236.0738121271	Sum of GTIs [s]
ontime9	8200.5331555009	Sum of GTIs [s]
l2events	206934	Number of level 2 events

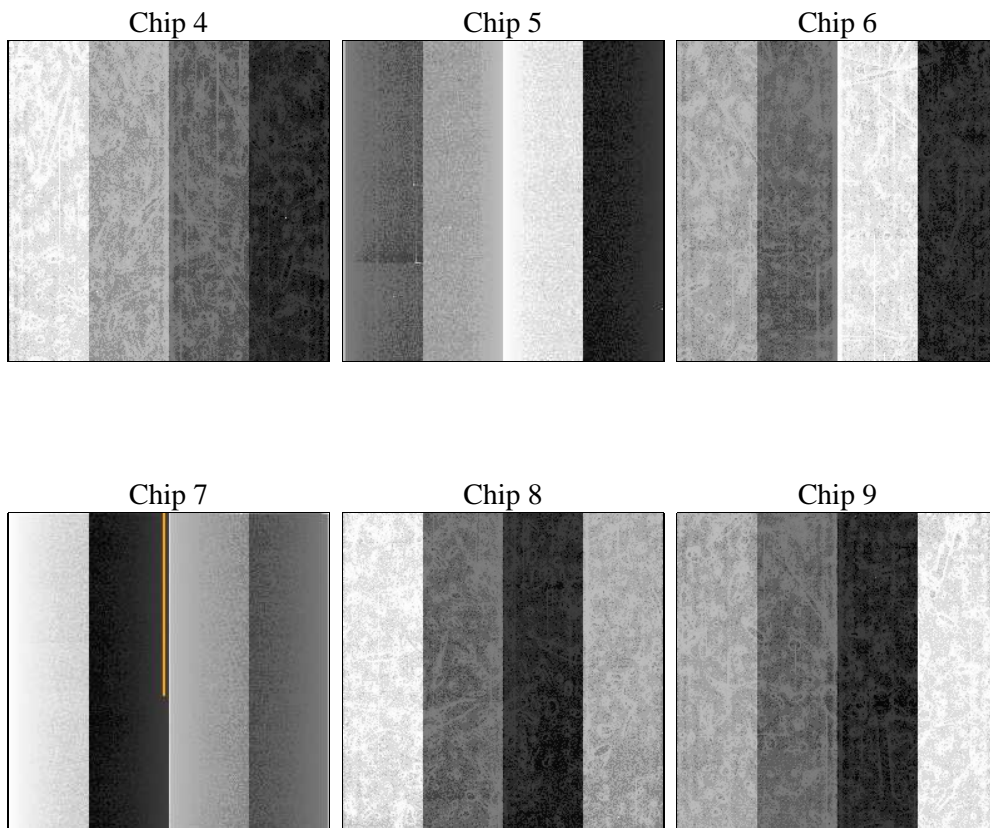
## 2 OBI

### 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	8284.7999691963	Sum of GTIs [s]
caldsver	4.6.1	&#160	ontime4	8213.4273645878	Sum of GTIs [s]
date	2014-04-01T20:00:59	Date and time of file creation	ontime5	8284.7999691963	Sum of GTIs [s]
revision	1	Processing version of data	ontime6	8219.9504750967	Sum of GTIs [s]
			ontime7	8284.7999691963	Sum of GTIs [s]
			ontime8	8236.0738121271	Sum of GTIs [s]
			ontime9	8200.5331555009	Sum of GTIs [s]
			l1events	850238	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	142966	128410	151346	119902	148735	158879	grade 0 events	16269	5378	14095	7608	16967	14243
rejected events	114174	72249	122945	67210	111964	131095		11%	4%	9%	6%	11%	8%
rejected %	79%	56%	81%	56%	75%	82%	grade 1 events	118	109	76	72	101	74
								0%	0%	0%	0%	0%	0%
							grade 2 events	5349	21725	5909	13128	7664	5618
								3%	16%	3%	10%	5%	3%
							grade 3 events	1985	2073	1949	4378	2781	1927
								1%	1%	1%	3%	1%	1%
							grade 4 events	1955	1894	1887	4361	2787	1889
								1%	1%	1%	3%	1%	1%
							grade 5 events	3069	6306	3055	7379	3981	3419
								2%	4%	2%	6%	2%	2%
							grade 6 events	3842	26335	5178	24385	7263	4662
								2%	20%	3%	20%	4%	2%
							grade 7 events	110379	64590	119197	58591	107191	127047
								77%	50%	78%	48%	72%	79%

## 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	174.5102836434194	Subarray requested	NONE	NONE
[deg] Pointing Dec	0	14.74645761179021	Alternating exposures requested	N	N
[deg] Pointing Roll	0.0	220.6087834315605	[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)	512726641.673547	512726640.64855			
Observation start date	2014-04-01T08:04:02	2014-04-01T08:04:00			
[s] Observation end time (MET)	512737086.424123	512737085.39912			
Observation end date	2014-04-01T10:58:06	2014-04-01T10:58:05			
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)	2014.04.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2847999691963

### A.2 Comments