

# V&V Reference Report

## L2 ASCDS Version : 8.3.3.1

Observation 62870 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Nov 26 2010

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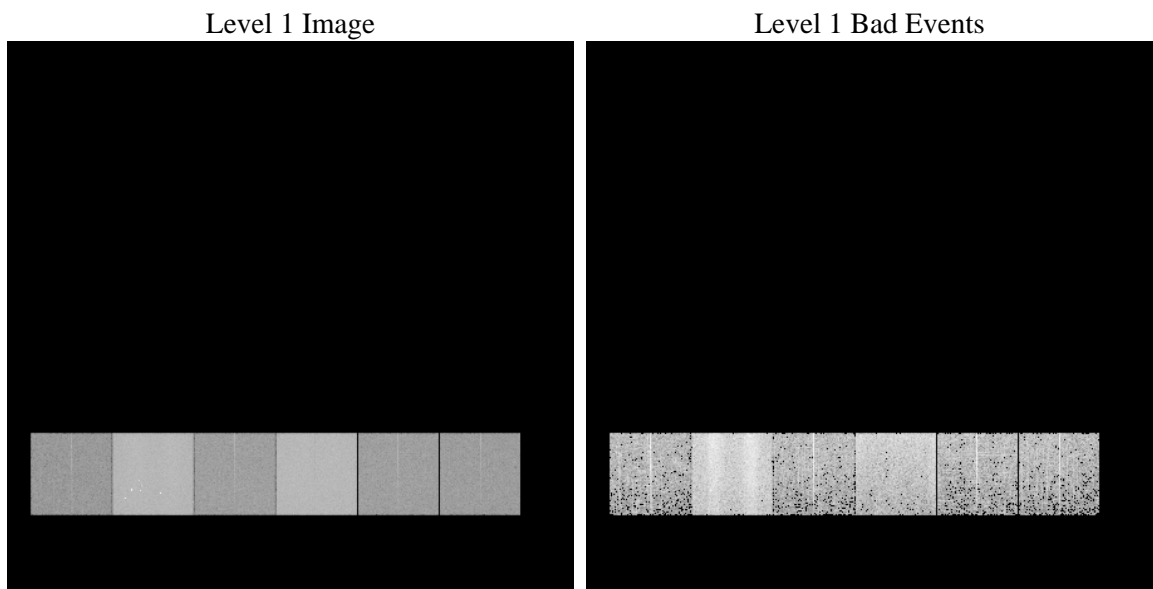
# 1 Front

seq_num	&#160	Sequence number
obs_id	62870	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
dec_targ	0.0	Observer's specified target Dec
ra_nom	92.101067282073	Nominal RA
dec_nom	46.605396800979	Nominal Dec
roll_nom	89.290284607317	Nominal Roll
revision	4	Processing version of data
ontime	2669.6347719356	Sum of GTIs [s]
livetime	2635.8302489923	Livetime [s]
ontime4	942.85290016234	Sum of GTIs [s]
ontime5	2861.5000630319	Sum of GTIs [s]
ontime6	1130.1454272047	Sum of GTIs [s]
ontime7	2669.6347719356	Sum of GTIs [s]
ontime8	1104.9458606914	Sum of GTIs [s]
ontime9	1068.5656970218	Sum of GTIs [s]
l2events	880754	Number of level 2 events

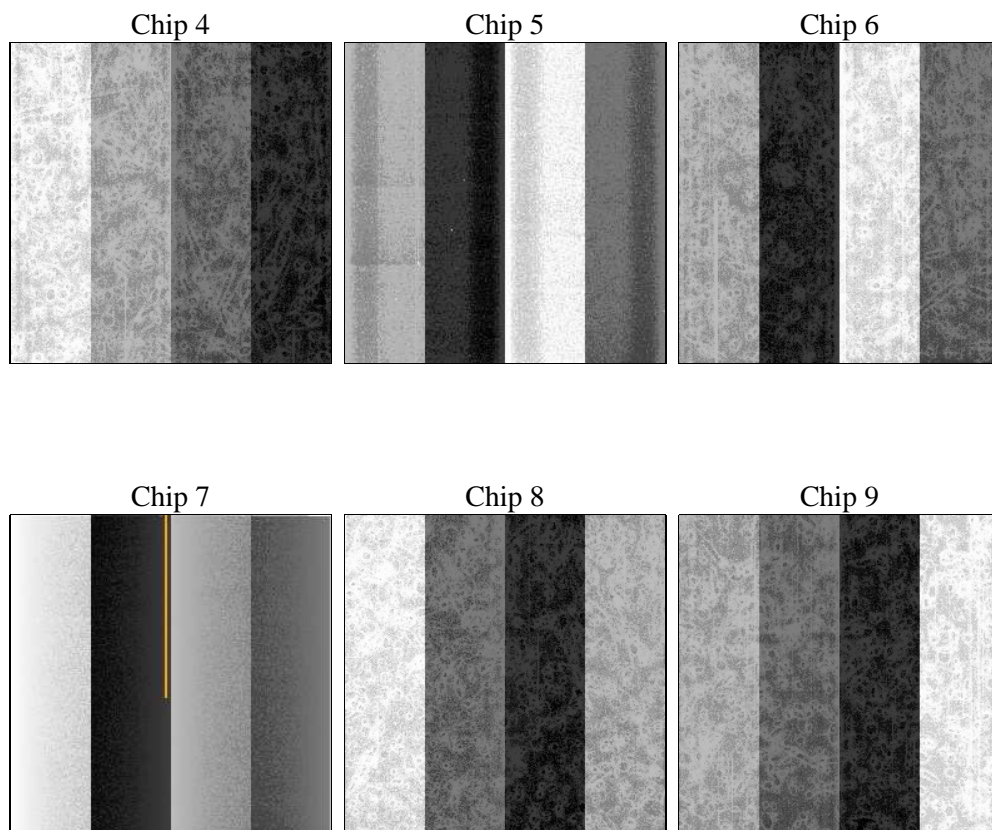
## 2 OBI

### 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	Scheduled observation exposure time
ascdsver	8.3.3.1	ASCDS version number	ontime	2669.6347719356	Sum of GTIs [s]
caldsver	4.4.0	&#160	ontime4	942.85290016234	Sum of GTIs [s]
date	2010-11-26T18:52:55	Date and time of file creation	ontime5	2861.5000630319	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	1130.1454272047	Sum of GTIs [s]
			ontime7	2669.6347719356	Sum of GTIs [s]
			ontime8	1104.9458606914	Sum of GTIs [s]
			ontime9	1068.5656970218	Sum of GTIs [s]
			l1events	1041679	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	98578	289744	124060	293339	122858	113100	grade 0 events	19794	28411	30187	48490	36467	29830
rejected events	17594	47109	18575	29448	18760	17254		20%	9%	24%	16%	29%	26%
rejected %	17%	16%	14%	10%	15%	15%	grade 1 events	107	108	139	120	150	124
								0%	0%	0%	0%	0%	0%
							grade 2 events	42614	94384	48756	73860	41598	42034
								43%	32%	39%	25%	33%	37%
							grade 3 events	1977	12970	3114	23083	3812	3041
								2%	4%	2%	7%	3%	2%
							grade 4 events	1968	11123	3046	20766	3931	3089
								1%	3%	2%	7%	3%	2%
							grade 5 events	814	4944	1030	4322	1133	968
								0%	1%	0%	1%	0%	0%
							grade 6 events	14895	96550	20684	98364	18618	18172
								15%	33%	16%	33%	15%	16%
							grade 7 events	16409	41254	17104	24334	17149	15842
								16%	14%	13%	8%	13%	14%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
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
Pointing RA	0	92.10106728207275	Subarray requested	NONE	NONE
Pointing Dec	0	46.60539680097914	Alternating exposures requested	N	N
Pointing Roll	0.0	89.29028460731735	Primary exposure time	3.2	3.2
SIM focus pos (mm)	-1.429586	-0.6828225247311905			
SIM defocus (mm)	0.1037507710433287	0.8505141146731063			
SIM translation stage pos (mm)	250.455976	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	54645897.975728	54645896.950728			
Observation start date	1999-09-25T11:24:58	1999-09-25T11:24:56			
Observation end time	54653068.875985	54653067.850985			
Observation end date	1999-09-25T13:24:29	1999-09-25T13:24:27			
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)	2010.11.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.6696347719356

### A.2 Comments

This obsid originally appeared in telemetry with number 1317. It is documented in the spacecraft load as obsid 1317 in September 1999. The same obsid was reused in December 2000 as a science observation. Because this obsid was previously used for a different instrument configuration, the original telemetry file from 1999 was edited to change the obsid to 62870. The focal plane temperature is approximately -110 C during this observation. =====