

# V&V Reference Report

## L2 ASCDS Version : 8.3.3.1

Observation 62710 - L2 Version 4  
Chandra X-Ray Center

L2 Processing Date : Dec 6 2010

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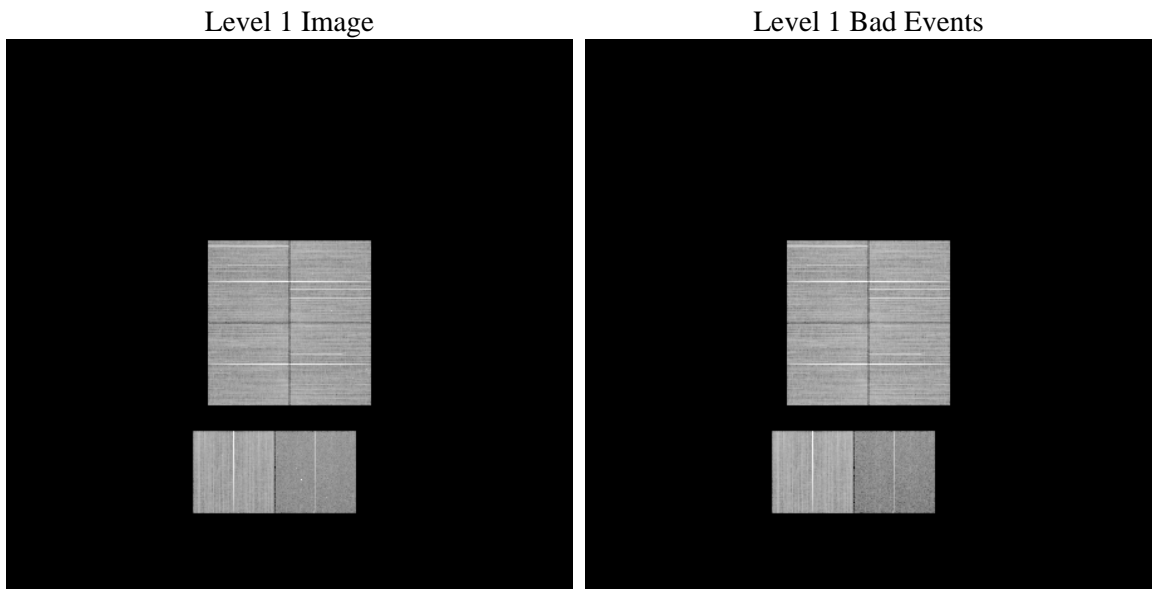
# 1 Front

seq_num	0	Sequence number
obs_id	62710	Observation id
title	ACIS-I background measurement	Proposal title
observer	CHANDRA orbital activation and checkout	Principal investigator
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	266.72036402971	Nominal RA
dec_nom	-9.1733597935771	Nominal Dec
roll_nom	179.72508577046	Nominal Roll
revision	4	Processing version of data
ontime	11669.008412987	Sum of GTIs [s]
livetime	11525.670977557	Livetime [s]
ontime0	11455.221111774	Sum of GTIs [s]
ontime1	11575.498112909	Sum of GTIs [s]
ontime2	11485.289883286	Sum of GTIs [s]
ontime3	11465.204623945	Sum of GTIs [s]
ontime6	11471.925852939	Sum of GTIs [s]
ontime7	11669.008412987	Sum of GTIs [s]
l2events	97423	Number of level 2 events

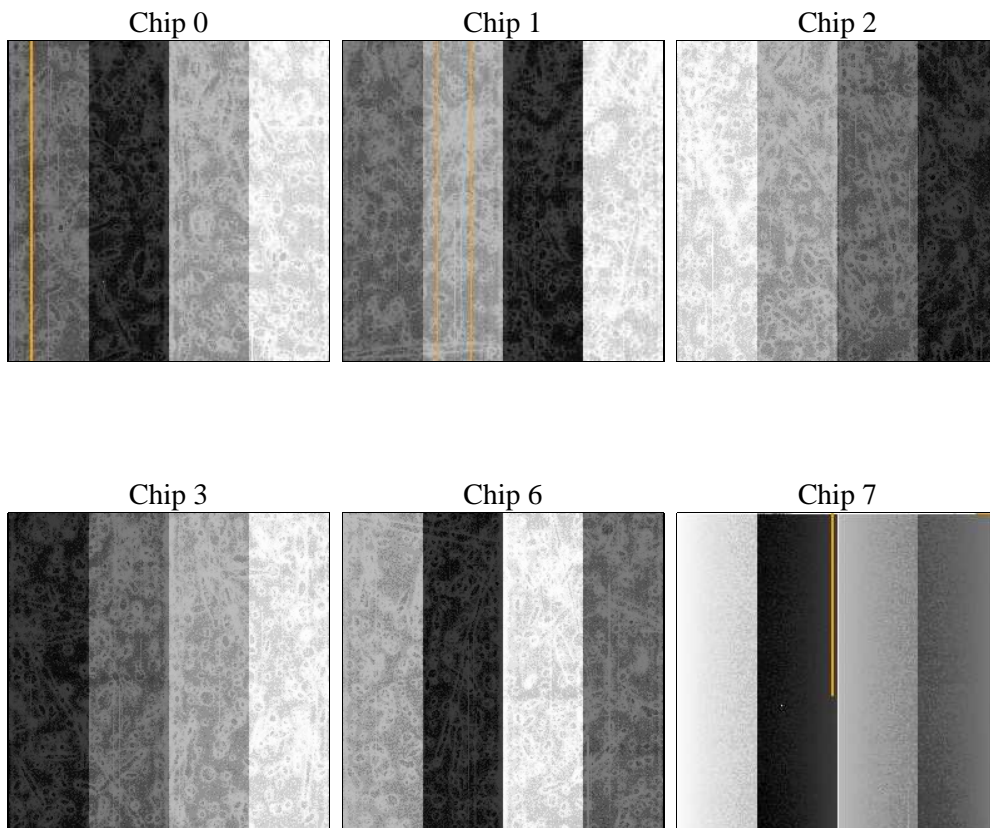
## 2 OBI

### 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	11669.008412987	Sum of GTIs [s]
caldbver	4.4.0	&#160	ontime0	11455.221111774	Sum of GTIs [s]
date	2010-12-06T22:09:01	Date and time of file creation	ontime1	11575.498112909	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	11485.289883286	Sum of GTIs [s]
			ontime3	11465.204623945	Sum of GTIs [s]
			ontime6	11471.925852939	Sum of GTIs [s]
			ontime7	11669.008412987	Sum of GTIs [s]
			l1events	1880356	Number of level 1 events

### 2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	335666	365456	329216	334664	347273	168081	grade 0 events	4906	5491	4805	5259	4817	6352
rejected events	324703	356397	318885	323630	336418	112566		1%	1%	1%	1%	1%	3%
rejected %	96%	97%	96%	96%	96%	66%	grade 1 events	60	77	66	62	59	140
								0%	0%	0%	0%	0%	0%
							grade 2 events	2052	2174	1857	1983	1986	9115
								0%	0%	0%	0%	0%	5%
							grade 3 events	1147	1310	1091	1111	1129	5772
								0%	0%	0%	0%	0%	3%
							grade 4 events	1104	1301	1042	1015	1105	5035
								0%	0%	0%	0%	0%	2%
							grade 5 events	2955	3346	2570	2989	3255	10260
								0%	0%	0%	0%	0%	6%
							grade 6 events	1932	2150	1685	1808	1997	30063
								0%	0%	0%	0%	0%	17%
							grade 7 events	321510	349607	316100	320437	332925	101344
								95%	95%	96%	95%	95%	60%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	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
Pointing RA	0	266.7203640297126	Subarray requested	NONE	NONE
Pointing Dec	0	-9.173359793577102	Alternating exposures requested	N	N
Pointing Roll	0.0	179.7250857704621	Primary exposure time	3.3	3.3
SIM focus pos (mm)	0.25545138348768	0.25545138348768			
SIM defocus (mm)	1.037799581826113	1.037799581826113			
SIM translation stage pos (mm)	-190.132523104	-190.132523104			
SIM translation stage offset (mm)	-43.4599399874318	-43.4599399874318			
Observation start time	50587926.909	50587926.909			
Observation start date	1999-08-09T12:12:06	1999-08-09T12:12:06			
Observation end time	50612034.049777	50612034.049777			
Observation end date	1999-08-09T18:53:54	1999-08-09T18:53:54			
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)	2010.12.07
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	11.669008412987

## A.2 Comments

ACIS orbital measurement with the door open. There is telemetry loss from 13:54 to 14:44.

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At 16:25 there was a planned format switch and an OBC switch from A to B.

Due to the OBC switch, the obsid number was automatically changed to 0. Thus the last part of this obsid was recorded under obsid 0. This processing

uses an override obspar (observation parameter file) to include all the data in obsid 0 that should have been included in obsid 62710.

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Also due to the OBC switch, events were not properly recorded by ACIS between

approximately 14 and 21.7 ksec into the observation.

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This observation was taken with a focal plane temperature for ACIS of about

-90 degrees C.