

# V&V Reference Report

## L2 ASCDS Version : 8.1.1

Observation 62362 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Nov 19 2009

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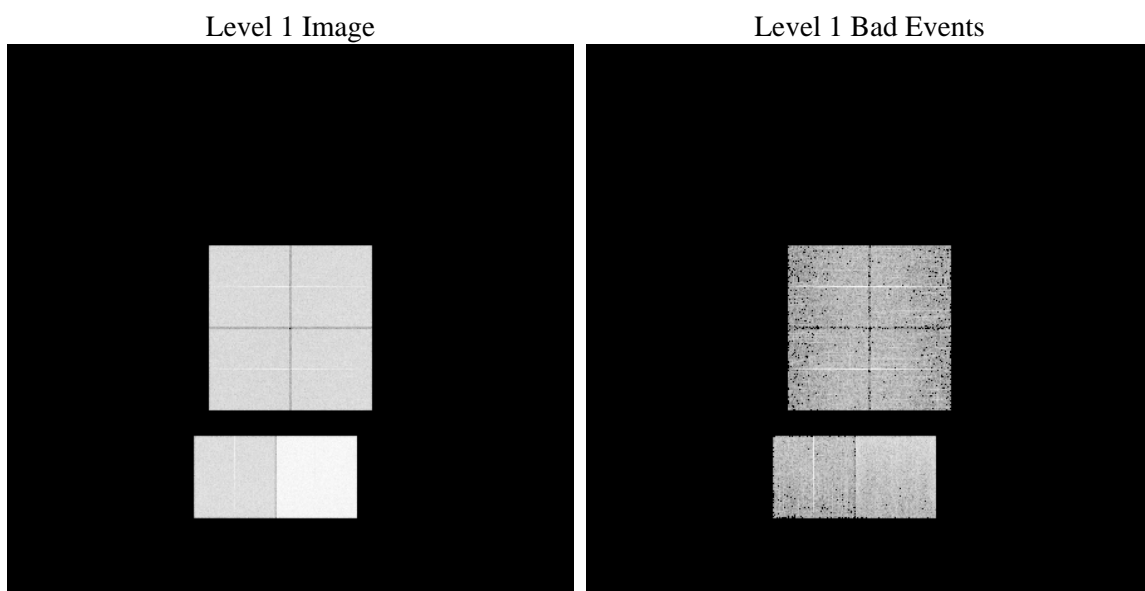
# 1 Front

seq_num	&#160	Sequence number
obs_id	62362	Observation id
title	ACIS-012367 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	112.14400696065	Nominal RA
dec_nom	80.027077204688	Nominal Dec
roll_nom	78.574946575005	Nominal Roll
revision	3	Processing version of data
ontime	4128.0722848698	Sum of GTIs [s]
livetime	4075.8001479721	Livetime [s]
ontime0	1570.8708885685	Sum of GTIs [s]
ontime1	1604.3134465292	Sum of GTIs [s]
ontime2	1494.1181162521	Sum of GTIs [s]
ontime3	1575.1440864727	Sum of GTIs [s]
ontime6	1706.8302991092	Sum of GTIs [s]
ontime7	4128.0722848698	Sum of GTIs [s]
l2events	1113800	Number of level 2 events

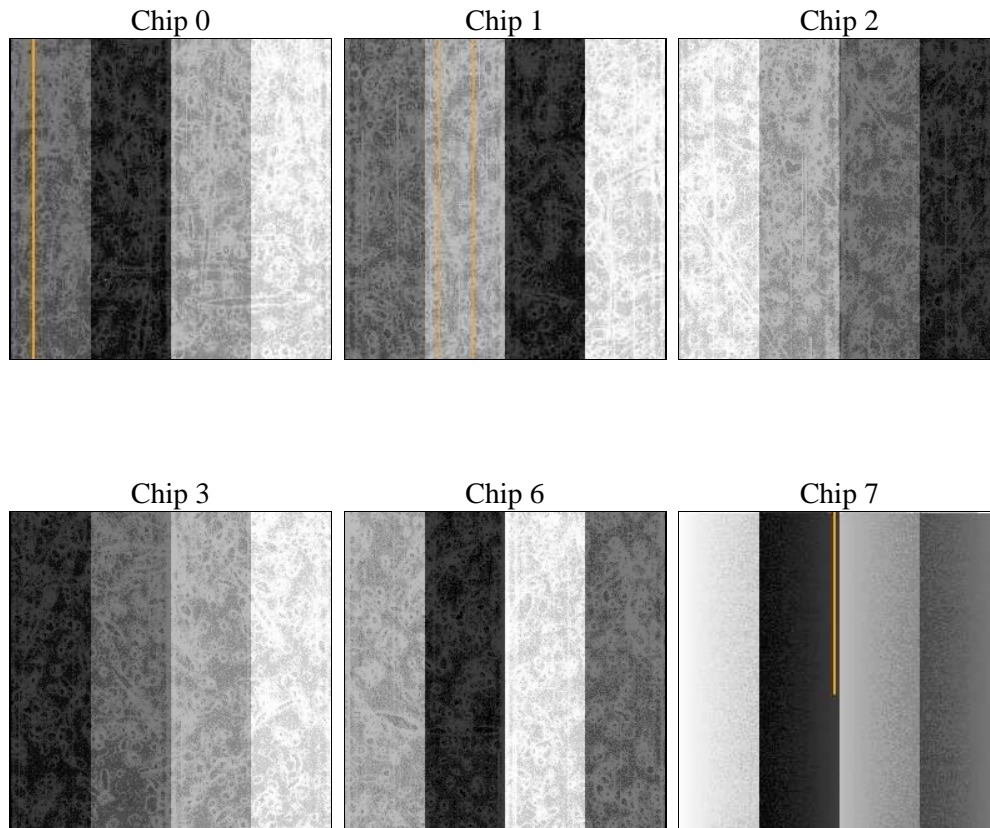
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.1.1	ASCDS version number	sched_exp_time	0.0
caldsver	4.1.4	&#160		Scheduled observation exposure time
date	2009-11-19T23:18:18	Date and time of file creation	ontime	4128.0722848698
revision	3	Processing version of data	ontime0	1570.8708885685
			ontime1	1604.3134465292
			ontime2	1494.1181162521
			ontime3	1575.1440864727
			ontime6	1706.8302991092
			ontime7	4128.0722848698
			l1events	1291896
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				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	164496	168694	158335	166694	185308	448369	grade 0 events	53190	54394	43065	46827	44686	74896
rejected events	22739	23581	24622	24330	27769	43470		32%	32%	27%	28%	24%	16%
rejected %	13%	13%	15%	14%	14%	9%	grade 1 events	224	243	188	178	179	216
								0%	0%	0%	0%	0%	0%
							grade 2 events	52308	53643	57740	60721	72887	112909
								31%	31%	36%	36%	39%	25%
							grade 3 events	5785	5880	4495	4722	4671	35320
								3%	3%	2%	2%	2%	7%
							grade 4 events	5670	5920	4385	4844	4617	32037
								3%	3%	2%	2%	2%	7%
							grade 5 events	1436	1392	1407	1423	1583	6440
								0%	0%	0%	0%	0%	1%
							grade 6 events	24804	25276	24028	25250	30678	149737
								15%	14%	15%	15%	16%	33%
							grade 7 events	21079	21946	23027	22729	26007	36814
								12%	13%	14%	13%	14%	8%

## 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	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	112.1440069606538	Alternating exposures requested	N	N
Pointing Dec	0	80.02707720468771	Primary exposure time	3.2	3.2
Pointing Roll	0.0	78.57494657500528			
SIM focus pos (mm)	-0.782348	-1.041718744158295			
SIM defocus (mm)	0	0.4916178952460017			
SIM translation stage pos (mm)	-233.592463	250.466033080201			
SIM translation stage offset (mm)	0	-0.01005468664627074			
Observation start time	55557914.057428	55557913.28892			
Observation start date	1999-10-06T00:45:14	1999-10-06T00:45:13			
Observation end time	55566712.657744	55566711.889237			
Observation end date	1999-10-06T03:11:53	1999-10-06T03:11:51			
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)	2010.08.13
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	4.1280722848698

## A.2 Comments

The focal plane temperature is approximately -110C during this observation.

The ACIS CTI correction has not been calibrated at this temperature because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front- and back-illuminated chips are affected. However, a T\_GAIN correction has been applied to the BI chip (ACIS-7) data included here.

The ACIS spectral response calibration is less accurate at these warmer temperatures than it is at -119.7 C. Users whose science objectives depend on the most accurate spectral response (ie: fitting line-rich spectra) may notice an effect. Users whose science objectives do not depend on the most accurate spectral response should not notice an effect.