

# V&V Reference Report

## L2 ASCDS Version : 8.5.1.1

Observation 62294 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Jan 25 2013

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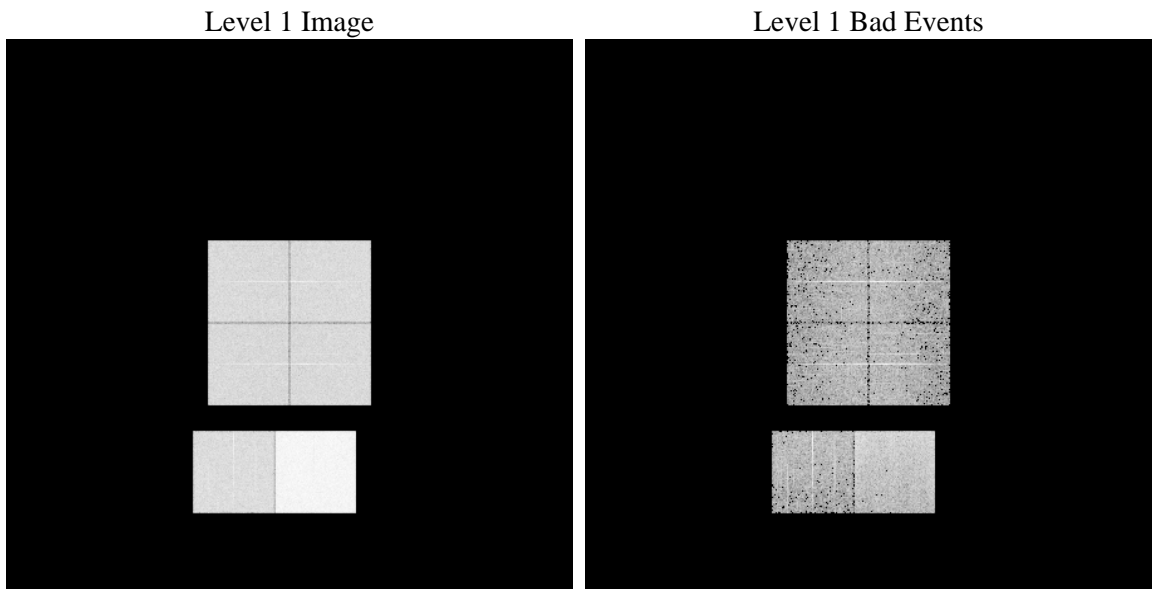
# 1 Front

seq_num	&#160	Sequence number
obs_id	62294	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 [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	85.929039378852	Nominal RA [deg]
dec_nom	-68.372263495255	Nominal Dec [deg]
roll_nom	19.781411465073	Nominal Roll [deg]
revision	5	Processing version of data
ontime	3383.363502048	Sum of GTIs [s]
livetime	3340.5213161681	Livetime [s]
ontime0	1340.3622450083	Sum of GTIs [s]
ontime1	1372.7725552768	Sum of GTIs [s]
ontime2	1282.0235747546	Sum of GTIs [s]
ontime3	1305.834231846	Sum of GTIs [s]
ontime6	1437.5933554024	Sum of GTIs [s]
ontime7	3383.363502048	Sum of GTIs [s]
l2events	902361	Number of level 2 events

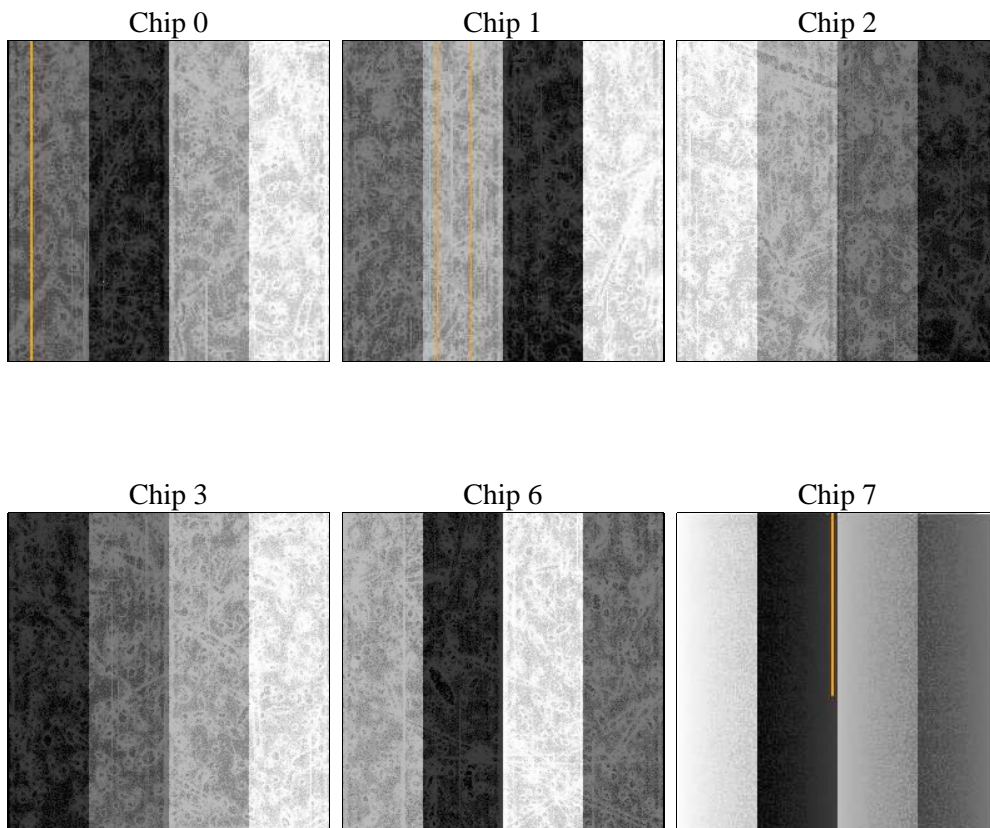
## 2 OBI

### 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	8.5.1.1	Processing system revision	ontime	3383.363502048	Sum of GTIs [s]
caldsver	4.5.5	&#160	ontime0	1340.3622450083	Sum of GTIs [s]
date	2013-01-25T22:09:33	Date and time of file creation	ontime1	1372.7725552768	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	1282.0235747546	Sum of GTIs [s]
			ontime3	1305.834231846	Sum of GTIs [s]
			ontime6	1437.5933554024	Sum of GTIs [s]
			ontime7	3383.363502048	Sum of GTIs [s]
			l1events	1059678	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	136958	141538	133017	135917	152936	359312	grade 0 events	44005	45712	36973	39295	36794	60661
rejected events	20110	20860	20965	21618	23926	40384		32%	32%	27%	28%	24%	16%
rejected %	14%	14%	15%	15%	15%	11%	grade 1 events	198	192	148	177	141	115
								0%	0%	0%	0%	0%	0%
							grade 2 events	44488	46317	49003	48991	60678	90730
								32%	32%	36%	36%	39%	25%
							grade 3 events	4781	4981	3780	4047	3863	28250
								3%	3%	2%	2%	2%	7%
							grade 4 events	4788	4876	3895	4136	3779	25822
								3%	3%	2%	3%	2%	7%
							grade 5 events	1218	1209	1066	1125	1218	4975
								0%	0%	0%	0%	0%	1%
							grade 6 events	20979	21333	20419	20414	25962	120198
								15%	15%	15%	15%	16%	33%
							grade 7 events	16501	16918	17733	17732	20501	28561
								12%	11%	13%	13%	13%	7%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	85.92903937885171
[deg] Pointing Dec	0	-68.37226349525474
[deg] Pointing Roll	0.0	19.78141146507269
[mm] SIM focus pos	-0.782348	-1.428180813131781
[mm] SIM defocus	0	0.1051558262725154
[mm] SIM translation stage pos	-233.592463	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	60298159.978526	60298159.209956
Observation start date	1999-11-29T21:29:20	1999-11-29T21:29:19
[s] Observation end time (MET)	60305457.978792	60305457.21022
Observation end date	1999-11-29T23:30:58	1999-11-29T23:30:57
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.2	3.2

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.02.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.383363502048

## A.2 Comments

The focal plane temperature was set to a temperature of about -109.2 C during this observation and others in the interval from September 17, 1999 to January 29, 2000. The current reprocessing of the data applies no charge-transfer inefficiency (CTI) adjustment to the data because the ACIS CTI adjustment has not been calibrated at this temperature. The CTI adjustment is calibrated for data taken from January 30, 2000 to the present, when the focal-plane temperature is set to -119.7 C. However, if the observation includes one or both back-illuminated CCDs ACIS-S1 and ACIS-S3, then a time-dependent gain adjustment is applied to the data for these CCDs. The ACIS spectral response calibration is less accurate at temperatures of about -109.2 C than it is at -119.7 C.