

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2490 - L2 Version 5  
Chandra X-Ray Center

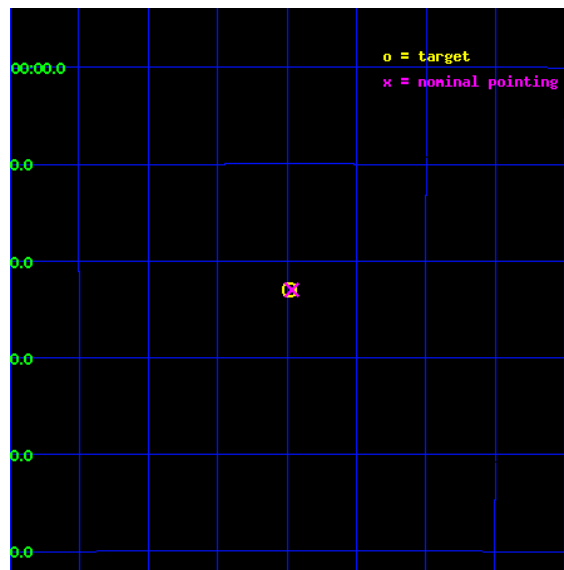
L2 Processing Date : Sep 21 2012

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# 1 Front

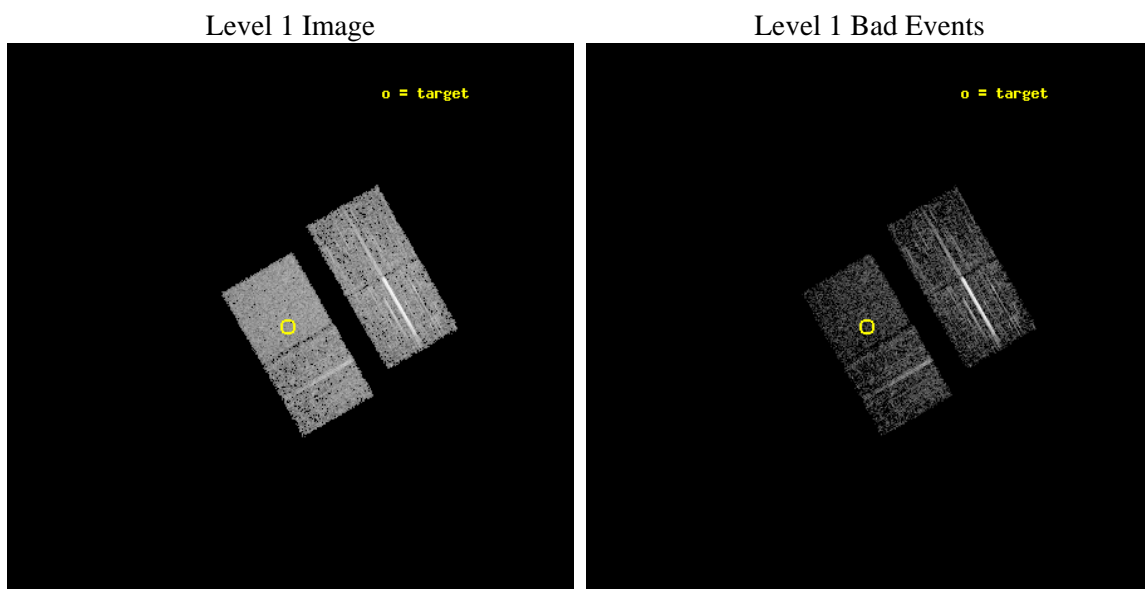
seq_num	190008	Sequence number
obs_id	2490	Observation id
title	ACIS DARK CURRENT CALIBARTION ON DARK MOON	Proposal title
observer	DR. SCOTT WOLK	Principal investigator
object	DARK MOON	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	181.370967	Observer's specified target RA [deg]
dec_targ	-14.381978	Observer's specified target Dec [deg]
ra_nom	181.36640952532	Nominal RA [deg]
dec_nom	-14.383248957837	Nominal Dec [deg]
roll_nom	240.01065819862	Nominal Roll [deg]
revision	5	Processing version of data
ontime	0.0	Sum of GTIs [s]
livetime	0.0	Livetime [s]
ontime2	0.0	Sum of GTIs [s]
ontime3	0.0	Sum of GTIs [s]
ontime6	0.0	Sum of GTIs [s]
ontime7	0.0	Sum of GTIs [s]
l2events	0	Number of level 2 events



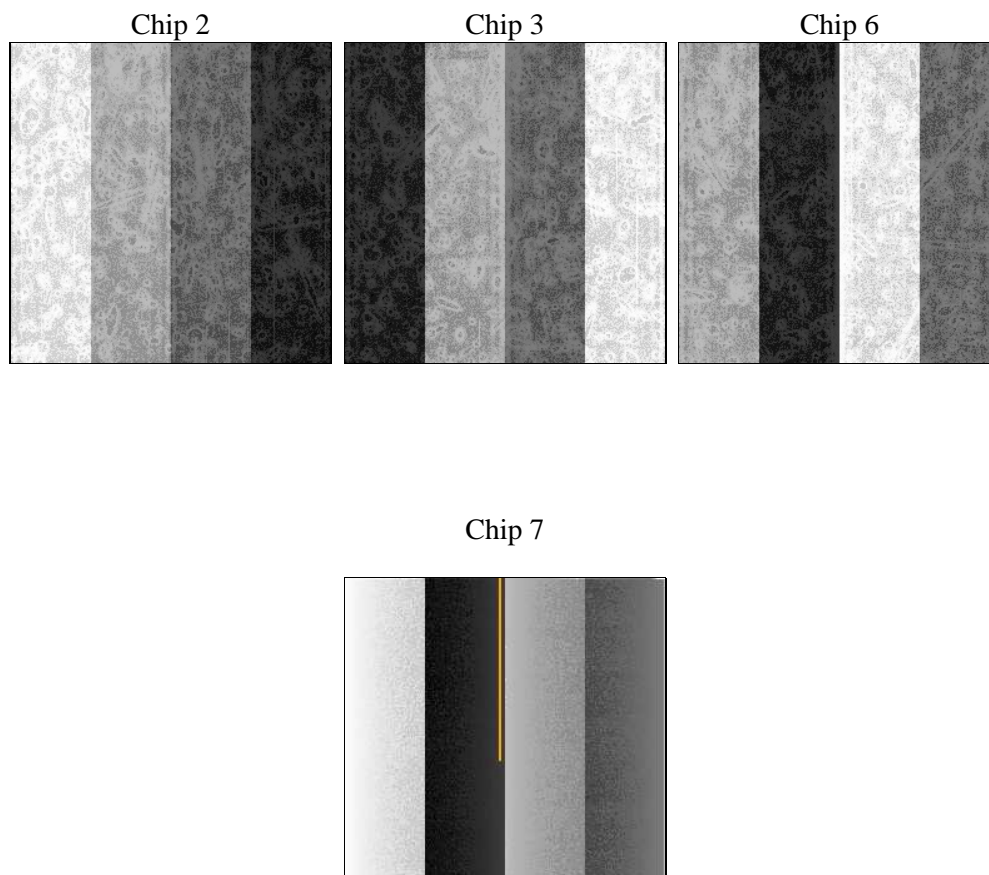
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	3000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	0.0	Sum of GTIs [s]
caldsver	4.5.1.1	&#160	ontime2	2845.7446515858	Sum of GTIs [s]
date	2012-09-21T12:12:33	Date and time of file creation	ontime3	2845.7446515858	Sum of GTIs [s]
revision	5	Processing version of data	ontime6	2842.6036913544	Sum of GTIs [s]
			ontime7	2845.7446515858	Sum of GTIs [s]
			l1events	101083	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	37977	20676	19011	23419
rejected events	36147	18499	16973	13718
rejected %	95%	89%	89%	58%

	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	712	986	776	791
	1%	4%	4%	3%
grade 1 events	44	11	11	21
	0%	0%	0%	0%
grade 2 events	419	415	420	1836
	1%	2%	2%	7%
grade 3 events	179	184	226	873
	0%	0%	1%	3%
grade 4 events	180	204	198	828
	0%	0%	1%	3%
grade 5 events	484	662	743	2191
	1%	3%	3%	9%
grade 6 events	340	388	418	5373
	0%	1%	2%	22%
grade 7 events	35619	17826	16219	11506
	93%	86%	85%	49%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-2367	ACIS-2367
Grating	NONE	NONE
Data mode	VFAINT	VFAINT
Observation mode	POINTING	POINTING
[deg] Pointing RA	181.3664097357499	181.3664095253236
[deg] Pointing Dec	-14.38324854936633	-14.38324895783743
[deg] Pointing Roll	240.0106582560714	240.0106581986209
[mm] SIM focus pos	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.001444942264670734	0.001444942264670734
[mm] SIM translation stage pos	-190.1400660499	-190.1400660499
[mm] SIM translation stage offset	0.007542945932812017	0.007542945932812017
[s] Observation start time (MET)	112515228.2292268	112515228.2292268
Observation start date	2001-07-26T06:13:08	2001-07-26T06:13:48
[s] Observation end time (MET)	112518300.1543469	112518300.1543469
Observation end date	2001-07-26T07:03:08	2001-07-26T07:05:00
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
On-chip summing requested	N	N
Subarray requested	NONE	NONE
Alternating exposures requested	N	N
[s] Primary exposure time	3.1	3.1

## 2.3 Star Slots

## 2.4 FID Slots

# A Summary

## A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3

## A.2 Comments

Charge time remains at previous value of 3 ksec. Charge time is based on Level 1 events because the OBC aspect solution was used (violation of earth angle constraint.) Consequently, there are no Level 2 events and no GTI.