

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2487 - L2 Version 4  
Chandra X-Ray Center

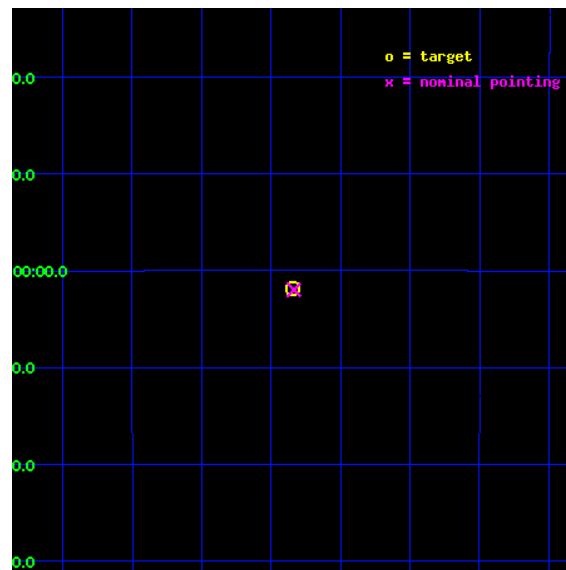
L2 Processing Date : Sep 21 2012

## Contents

<b>1</b>	<b>Front</b>	<b>2</b>
<b>2</b>	<b>OBI</b>	<b>3</b>
2.1	OBI . . . . .	3
2.1.1	Images . . . . .	3
2.1.2	Bias . . . . .	3
2.1.3	Parameters . . . . .	4
2.1.4	Events . . . . .	4
2.2	Compared Parameters . . . . .	5
2.3	Star Slots . . . . .	6
2.4	FID Slots . . . . .	6
<b>A</b>	<b>Summary</b>	<b>7</b>
A.1	Status . . . . .	7
A.2	Comments . . . . .	7

# 1 Front

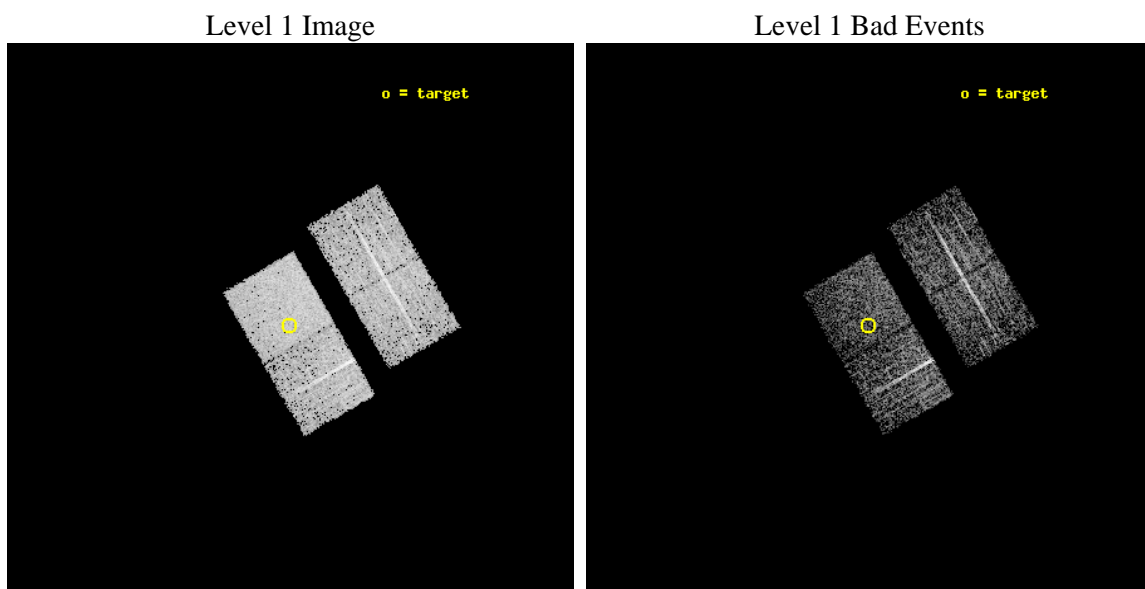
seq_num	190008	Sequence number
obs_id	2487	Observation id
title	ACIS DARK CURRENT CALIBARTION ON DARK MOON	Proposal title
observer	DR. SCOTT WOLK	Principal investigator
object	DARK MOON	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	180.711413	Observer's specified target RA [deg]
dec_targ	-14.030828	Observer's specified target Dec [deg]
ra_nom	180.70901438434	Nominal RA [deg]
dec_nom	-14.033001636959	Nominal Dec [deg]
roll_nom	239.87466843429	Nominal Roll [deg]
revision	4	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



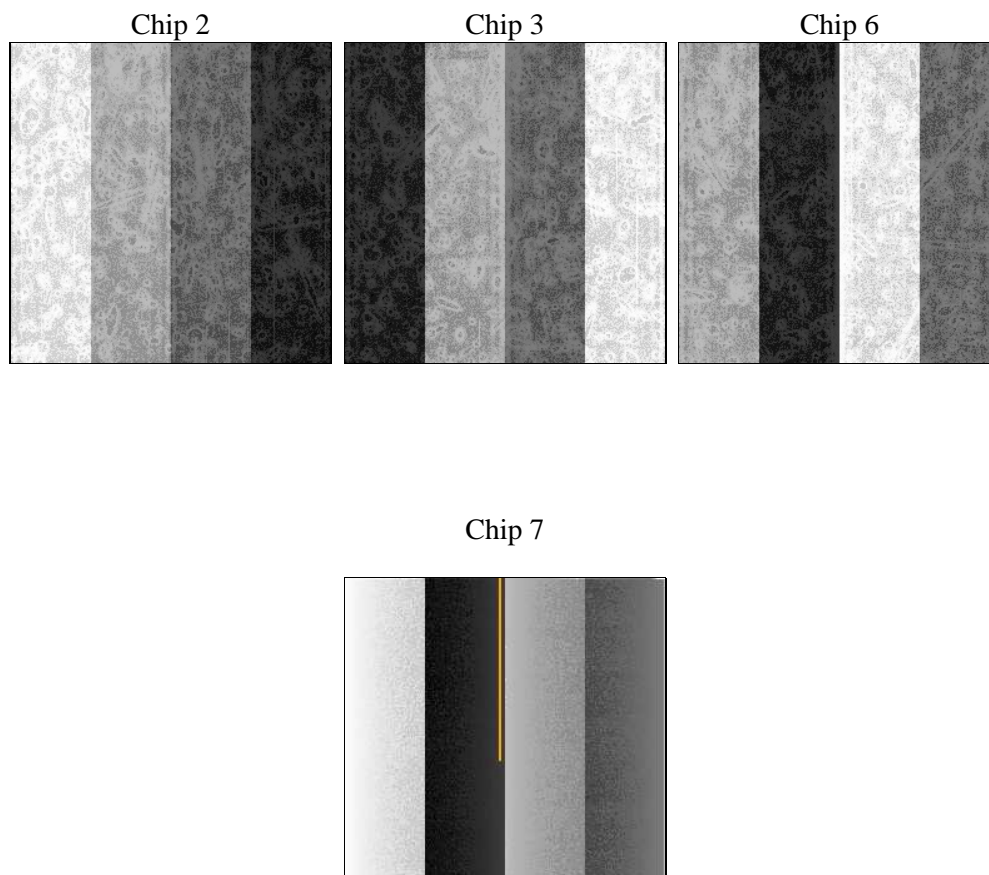
## 2 OBI

### 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	3020.5693941861	Sum of GTIs [s]
date	2012-09-21T12:12:01	Date and time of file creation	ontime3	3020.5283541977	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	3020.4873441011	Sum of GTIs [s]
			ontime7	3020.4463040978	Sum of GTIs [s]
			l1events	85245	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	19502	19586	20880	25277
rejected events	17230	17320	18711	15166
rejected %	88%	88%	89%	59%

	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	1023	1000	808	860
	5%	5%	3%	3%
grade 1 events	7	16	9	17
	0%	0%	0%	0%
grade 2 events	472	413	445	1903
	2%	2%	2%	7%
grade 3 events	185	219	222	925
	0%	1%	1%	3%
grade 4 events	219	219	242	938
	1%	1%	1%	3%
grade 5 events	630	730	874	2414
	3%	3%	4%	9%
grade 6 events	373	415	452	5485
	1%	2%	2%	21%
grade 7 events	16593	16574	17828	12735
	85%	84%	85%	50%

## 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	180.7090143843354	180.7090143843391
[deg] Pointing Dec	-14.03300163696035	-14.03300163695853
[deg] Pointing Roll	239.8746684342844	239.8746684342853
[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)	112503281.8537596	112503281.8537596
Observation start date	2001-07-26T02:54:00	2001-07-26T02:54:41
[s] Observation end time (MET)	112506329.1788788	112506329.1788788
Observation end date	2001-07-26T03:44:00	2001-07-26T03:45:29
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	Jen Lauer
V&V Date (YYYY-MM-DD)	2012.09.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.02

## A.2 Comments

Charge time remains at previous value of 3.02 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.