

# V&V Reference Report

## L2 ASCDS Version : 8.4.5

Observation 2468 - L2 Version 4  
Chandra X-Ray Center

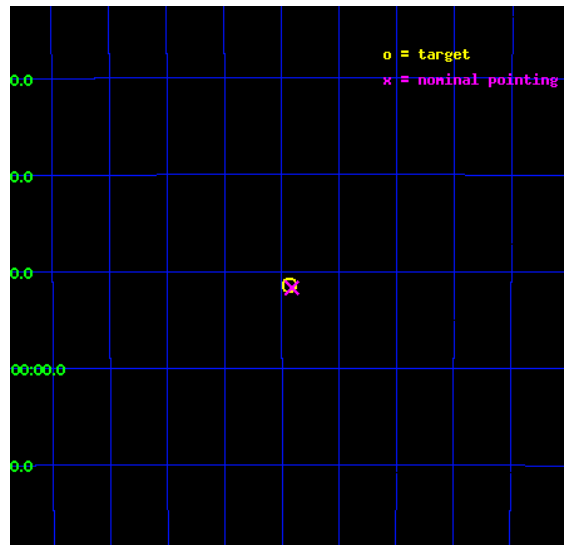
L2 Processing Date : Sep 24 2012

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# 1 Front

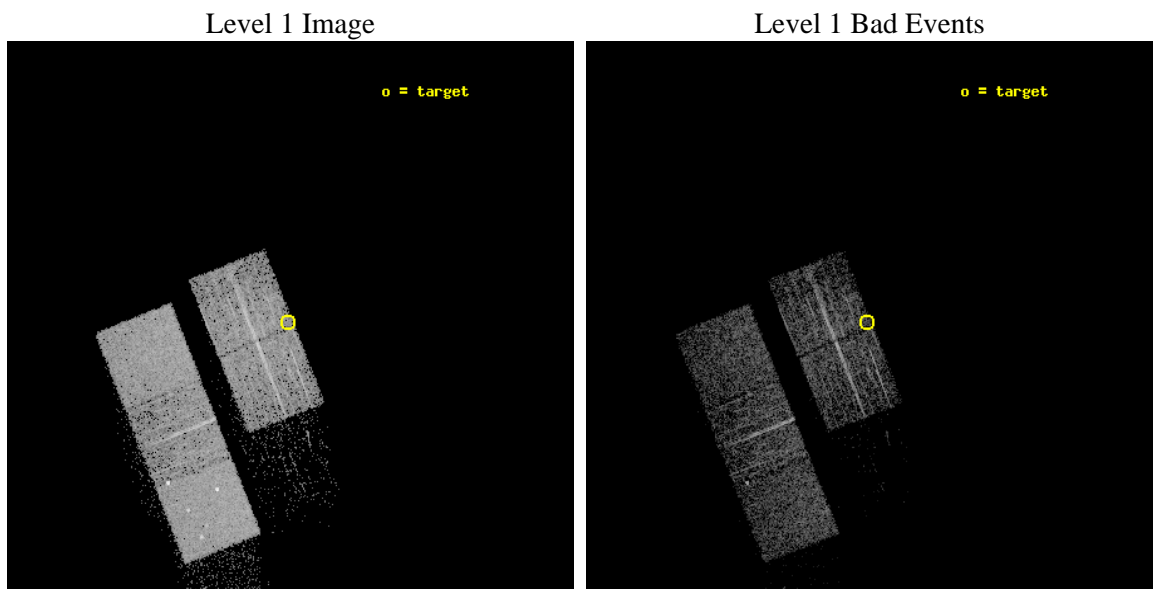
seq_num	190007	Sequence number
obs_id	2468	Observation id
title	ACIS DARK CURRENT CALIBARTION ON DARK MOON	Proposal title
observer	DR. SCOTT WOLK	Principal investigator
object	DARK MOON	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	235.85892	Observer's specified target RA [deg]
dec_targ	-36.85797	Observer's specified target Dec [deg]
ra_nom	235.85318790732	Nominal RA [deg]
dec_nom	-36.861782132072	Nominal Dec [deg]
roll_nom	248.3727635833	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]
ontime5	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



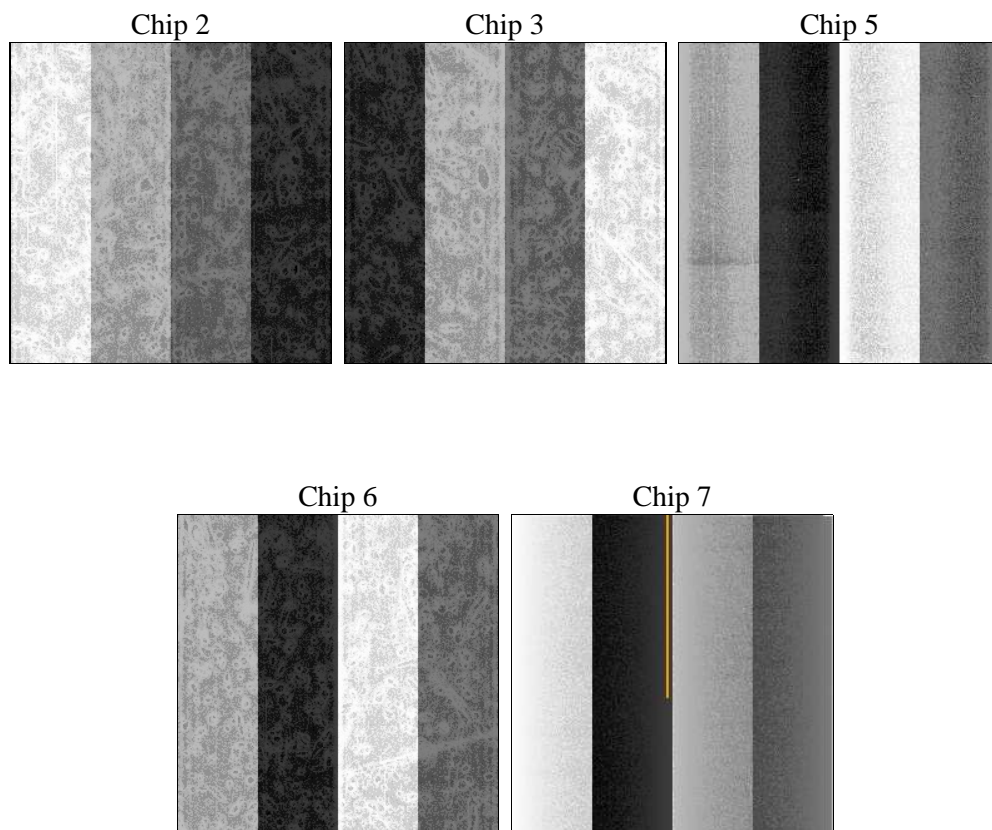
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	3360.000000	[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	3316.895121187	Sum of GTIs [s]
date	2012-09-24T12:02:54	Date and time of file creation	ontime3	3316.895121187	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	3316.8950912654	Sum of GTIs [s]
			ontime6	3316.895121187	Sum of GTIs [s]
			ontime7	3318.4921076149	Sum of GTIs [s]
			l1events	125490	Number of level 1 events

### 2.1.4 Events

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	21768	22304	32547	21061	27810
rejected events	19456	19940	16749	18652	16138
rejected %	89%	89%	51%	88%	58%

	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	963	1016	2512	926	1017
	4%	4%	7%	4%	3%
grade 1 events	9	5	106	12	20
	0%	0%	0%	0%	0%
grade 2 events	495	462	4238	491	2296
	2%	2%	13%	2%	8%
grade 3 events	215	256	717	260	1052
	0%	1%	2%	1%	3%
grade 4 events	228	216	718	237	1040
	1%	0%	2%	1%	3%
grade 5 events	744	900	2366	884	2625
	3%	4%	7%	4%	9%
grade 6 events	411	414	7613	495	6267
	1%	1%	23%	2%	22%
grade 7 events	18703	19035	14277	17756	13493
	85%	85%	43%	84%	48%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	235.8531879073198	235.8531879073186	Subarray requested	NONE	NONE
[deg] Pointing Dec	-36.86178213207287	-36.86178213207189	Alternating exposures requested	N	N
[deg] Pointing Roll	248.3727635833042	248.3727635833035	[s] Primary exposure time	3.1	3.1
[s] Window start time (MET)	117525664.184000	117525664.184000			
[s] Window stop time (MET)	117568864.184000	117568864.184000			
[mm] SIM focus pos	-0.78090834371673	-0.78090834371673			
[mm] SIM defocus	0.001439854621703041	0.001439854621703041			
[mm] SIM translation stage pos	-233.5874344608	-233.5874344608			
[mm] SIM translation stage offset	-0.005028630631784381	-0.005028630631784381			
[s] Observation start time (MET)	117529309.0770815	117529309.0770815			
Observation start date	2001-09-22T07:00:00	2001-09-22T07:01:49			
[s] Observation end time (MET)	117532804.3272197	117532804.3272197			
Observation end date	2001-09-22T07:56:00	2001-09-22T08:00:04			
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)	2012.09.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.495

## A.2 Comments

Charge time remains at previous value of 3.495 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.  
Window preference met.