

# V&V Reference Report

## L2 ASCDS Version : 8.5

Observation 60005 - L2 Version 3  
Chandra X-Ray Center

L2 Processing Date : Dec 9 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

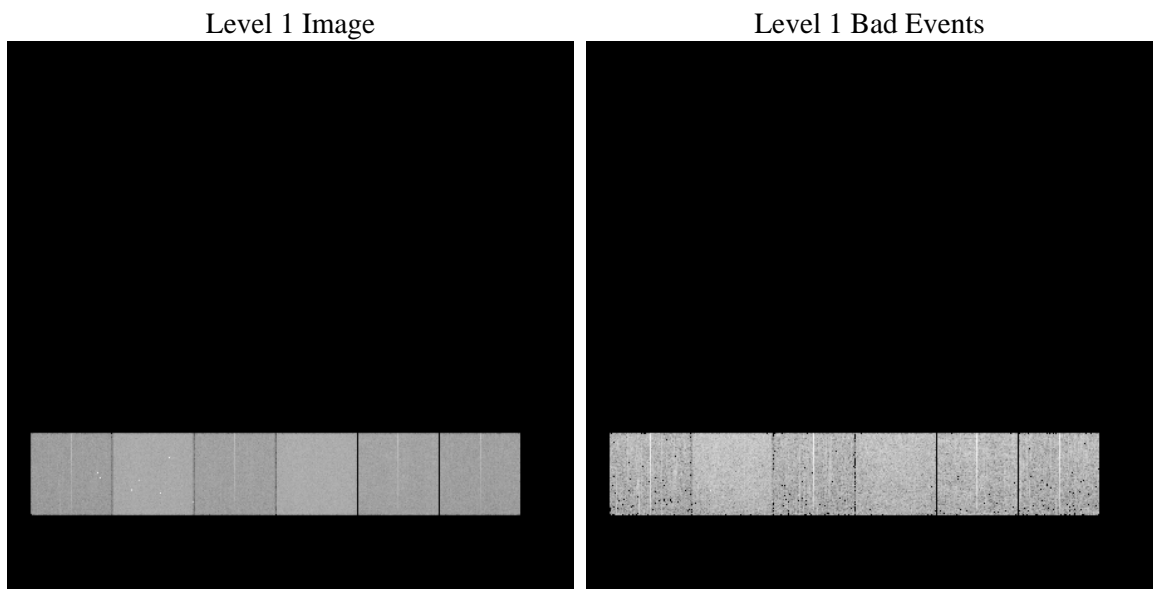
# 1 Front

seq_num	&#160	Sequence number
obs_id	60005	Observation id
title	ACIS-456789 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	0.031582406449314	Nominal RA [deg]
dec_nom	-24.999607920346	Nominal Dec [deg]
roll_nom	327.96893548929	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5532.3994972408	Sum of GTIs [s]
livetime	5462.3449235957	Livetime [s]
ontime4	3403.0748414993	Sum of GTIs [s]
ontime5	5532.3994972408	Sum of GTIs [s]
ontime6	3707.7280718088	Sum of GTIs [s]
ontime7	5532.3994972408	Sum of GTIs [s]
ontime8	3850.2978984118	Sum of GTIs [s]
ontime9	3642.9080587924	Sum of GTIs [s]
l2events	759707	Number of level 2 events

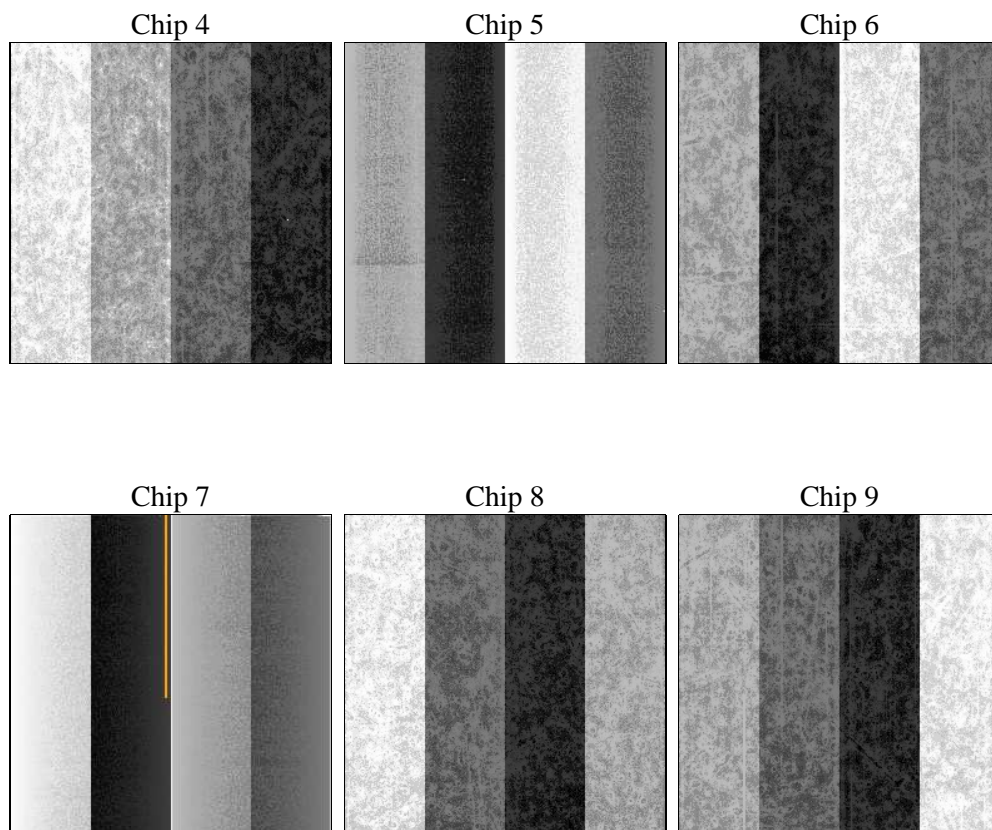
## 2 OBI

### 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	Processing system revision	ontime	5532.3994972408	Sum of GTIs [s]
caldsver	4.5.4	&#160	ontime4	3403.0748414993	Sum of GTIs [s]
date	2012-12-10T01:36:30	Date and time of file creation	ontime5	5532.3994972408	Sum of GTIs [s]
revision	3	Processing version of data	ontime6	3707.7280718088	Sum of GTIs [s]
			ontime7	5532.3994972408	Sum of GTIs [s]
			ontime8	3850.2978984118	Sum of GTIs [s]
			ontime9	3642.9080587924	Sum of GTIs [s]
			l1events	1011306	Number of level 1 events

### 2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9		ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	133254	207333	147904	219439	161167	142209	grade 0 events	58665	35620	62757	43904	67626	60820
rejected events	30741	41743	30574	36390	35108	30652		44%	17%	42%	20%	41%	42%
rejected %	23%	20%	20%	16%	21%	21%	grade 1 events	480	196	374	160	444	449
								0%	0%	0%	0%	0%	0%
							grade 2 events	15920	60515	20334	39682	21947	18945
								11%	29%	13%	18%	13%	13%
							grade 3 events	7290	9413	7331	17991	8177	6979
								5%	4%	4%	8%	5%	4%
							grade 4 events	7192	9140	7249	17718	8099	7157
								5%	4%	4%	8%	5%	5%
							grade 5 events	1802	6476	1970	6349	2400	2048
								1%	3%	1%	2%	1%	1%
							grade 6 events	13446	50902	19659	63754	20210	17656
								10%	24%	13%	29%	12%	12%
							grade 7 events	28459	35071	28230	29881	32264	28155
								21%	16%	19%	13%	20%	19%

## 2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	0.03158240644931362
[deg] Pointing Dec	0	-24.99960792034581
[deg] Pointing Roll	0.0	327.968935489292
[mm] SIM focus pos	-0.684267	-0.6828225247311905
[mm] SIM defocus	0	0.8505141146731063
[mm] SIM translation stage pos	-190.132523	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	214102579.680632	214102578.65563
Observation start date	2004-10-14T00:56:20	2004-10-14T00:56:18
[s] Observation end time (MET)	214121150.631462	214121149.60646
Observation end date	2004-10-14T06:05:51	2004-10-14T06:05:49
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.01.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.5323994972408

### A.2 Comments