

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60175 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Dec 3 2012

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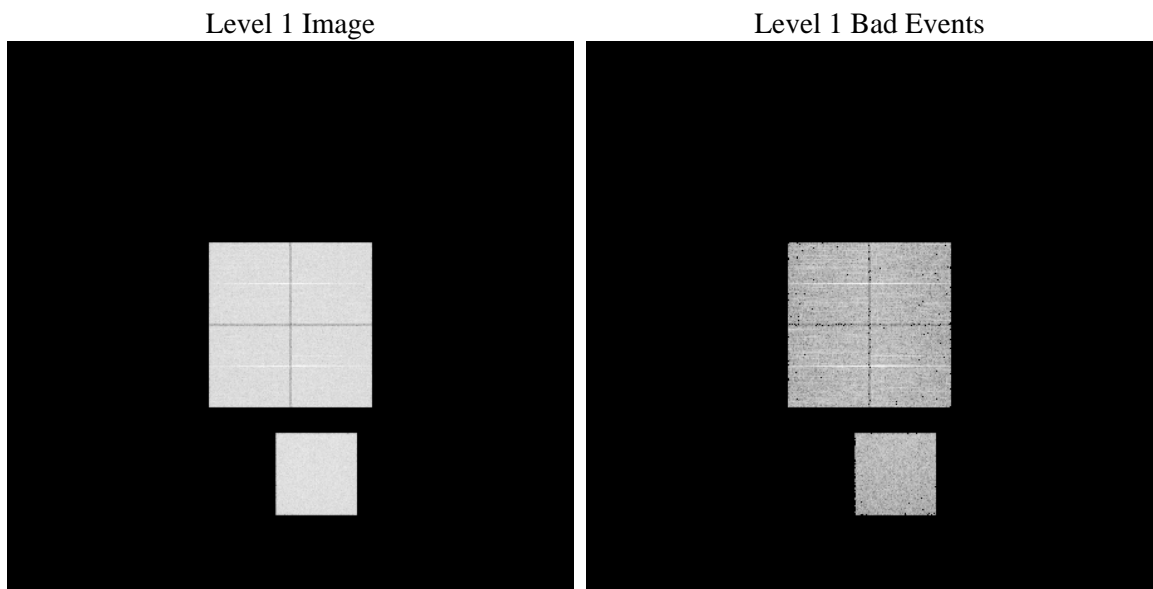
1 Front

seq_num	 	Sequence number
obs_id	60175	Observation id
title	ACIS-01237 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
cycle	P	events are from which exps? P[rimary] S[econdar
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	339.17254899438	Nominal RA [deg]
dec_nom	-33.514470388132	Nominal Dec [deg]
roll_nom	104.00363520187	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4270.332636863	Sum of GTIs [s]
livetime	4220.8402698135	Livetime [s]
ontime0	4228.0017639399	Sum of GTIs [s]
ontime1	4249.2095168531	Sum of GTIs [s]
ontime2	4019.0008766353	Sum of GTIs [s]
ontime3	4188.9297567904	Sum of GTIs [s]
ontime7	4270.332636863	Sum of GTIs [s]
l2events	597825	Number of level 2 events

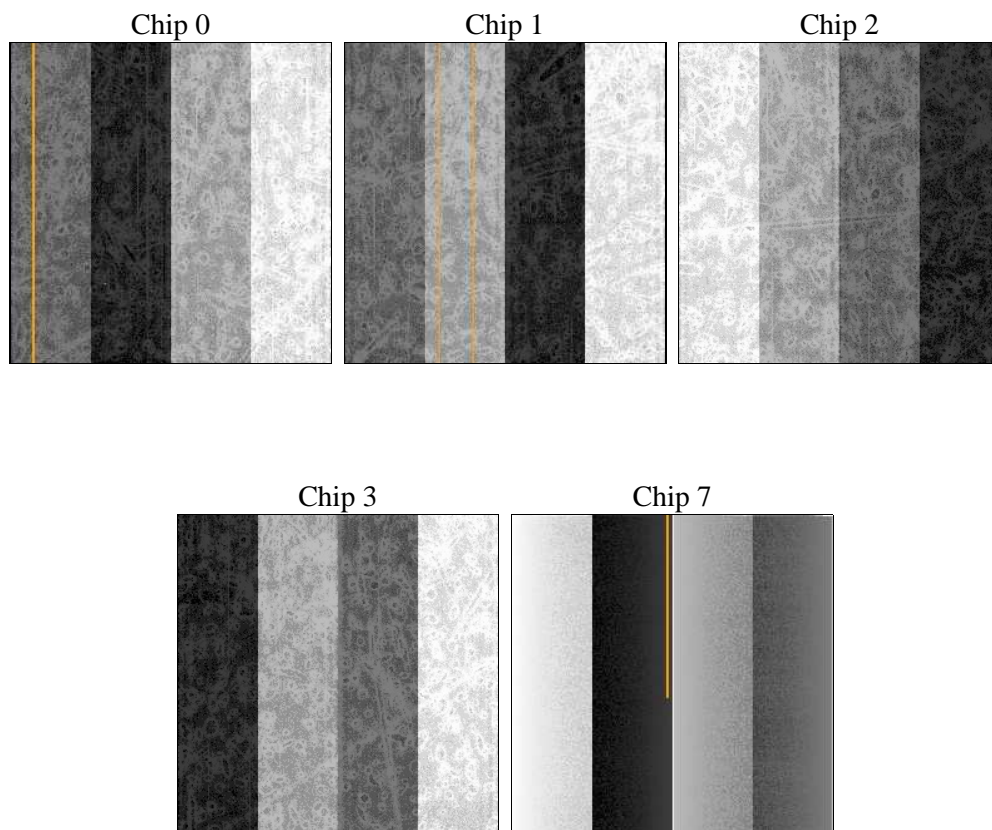
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	900	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	4270.332636863	Sum of GTIs [s]
caldsver	4.5.2	 	ontime0	4228.0017639399	Sum of GTIs [s]
date	2012-12-03T12:02:19	Date and time of file creation	ontime1	4249.2095168531	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	4019.0008766353	Sum of GTIs [s]
			ontime3	4188.9297567904	Sum of GTIs [s]
			ontime7	4270.332636863	Sum of GTIs [s]
			l1events	796587	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	157668	158503	153199	159019	168198
rejected events	34074	33561	35607	35073	30094
rejected %	21%	21%	23%	22%	17%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	70564	69215	68960	72475	33300
	44%	43%	45%	45%	19%
grade 1 events	411	357	488	452	96
	0%	0%	0%	0%	0%
grade 2 events	21742	24020	19151	20671	32032
	13%	15%	12%	12%	19%
grade 3 events	8282	7987	8018	8342	13750
	5%	5%	5%	5%	8%
grade 4 events	8065	7832	7800	8146	13529
	5%	4%	5%	5%	8%
grade 5 events	1803	1883	1736	1938	4614
	1%	1%	1%	1%	2%
grade 6 events	18721	19492	17265	17873	49566
	11%	12%	11%	11%	29%
grade 7 events	28080	27717	29781	29122	21311
	17%	17%	19%	18%	12%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-01237	ACIS-01237
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	156.9246796577508	339.1725489943834
[deg] Pointing Dec	-33.51329876059842	-33.5144703881323
[deg] Pointing Roll	103.9985965086812	104.0036352018744
[mm] SIM focus pos	-0.78090834371673	-0.78090834371673
[mm] SIM defocus	0.7524282194390134	0.7524282194390134
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	204058712.883544	204058712.883544
Observation start date	2004-06-19T19:01:00	2004-06-19T18:58:32
[s] Observation end time (MET)	204067449.274438	204067449.274438
Observation end date	2004-06-19T19:16:00	2004-06-19T21:24:09
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	Y	Y
[s] Primary exposure time	3.5	3.5
[s] Secondary exposure time	3.2	3.2
Duty cycle	1	1

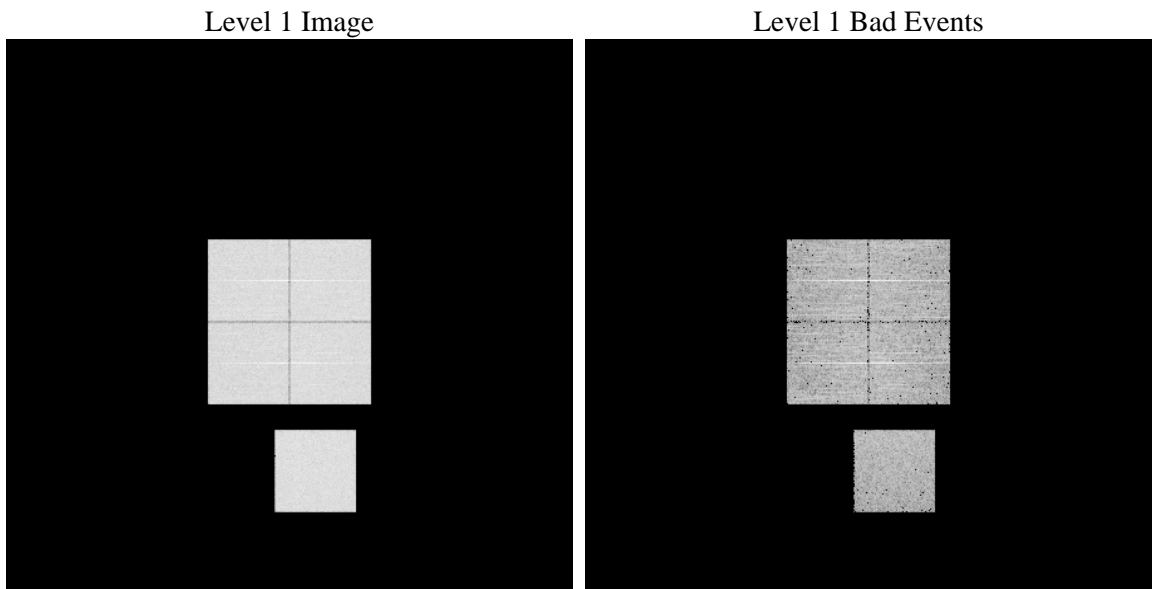
2.3 Star Slots

2.4 FID Slots

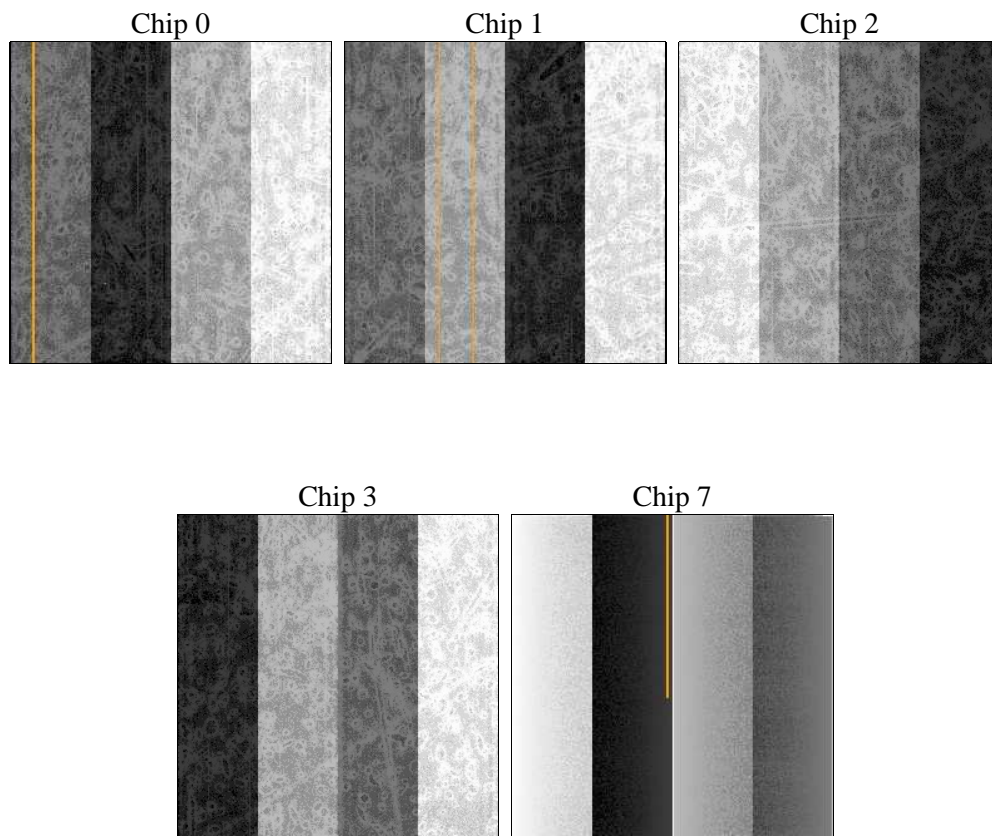
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.4.5	Processing system revision	sched_exp_time	900
caldbver	4.5.2	 	ontime	3909.0078547299
date	2012-12-03T11:58:47	Date and time of file creation	ontime0	3850.5049748719
revision	4	Processing version of data	ontime1	3899.1616147459
			ontime2	3588.0628155768
			ontime3	3798.7714550197
			ontime7	3909.0078547299
			l1events	728514

3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	144749	147316	137860	144755	153834
rejected events	32197	33001	32405	32074	28334
rejected %	22%	22%	23%	22%	18%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	64562	63746	62257	66234	30018
	44%	43%	45%	45%	19%
grade 1 events	365	287	414	379	82
	0%	0%	0%	0%	0%
grade 2 events	19561	22046	16972	18507	28806
	13%	14%	12%	12%	18%
grade 3 events	7429	7225	7152	7510	12444
	5%	4%	5%	5%	8%
grade 4 events	7491	7281	6993	7542	12320
	5%	4%	5%	5%	8%
grade 5 events	1775	1751	1543	1839	4401
	1%	1%	1%	1%	2%
grade 6 events	17066	17558	15325	16149	45734
	11%	11%	11%	11%	29%
grade 7 events	26500	27422	27204	26595	20029
	18%	18%	19%	18%	13%

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.01.17
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1793404915929

A.2 Comments