

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 60013 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Dec 9 2012

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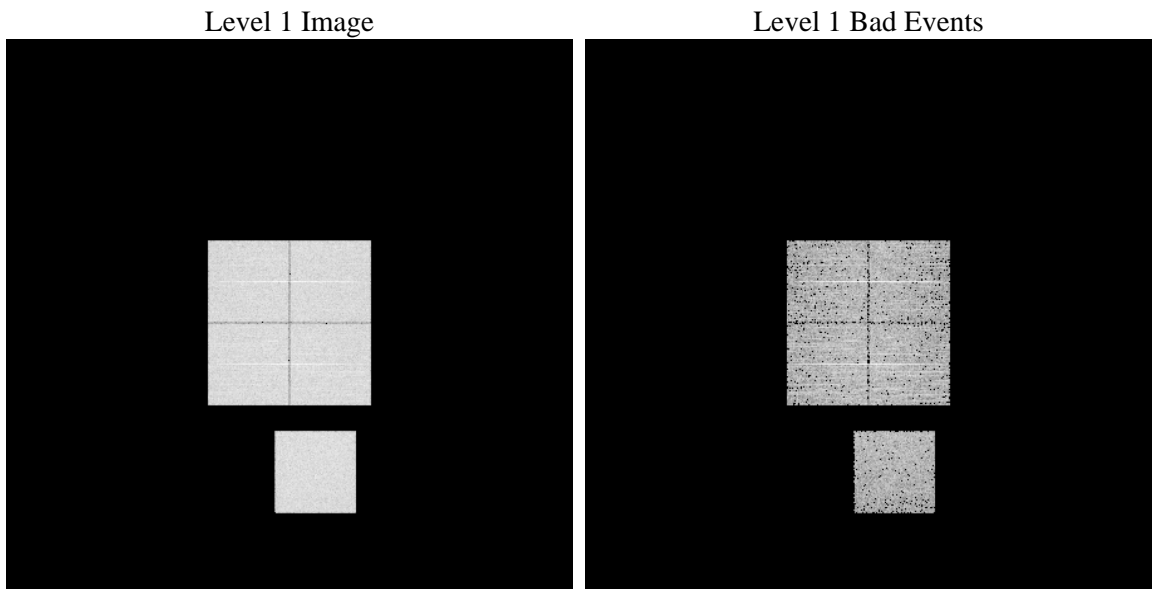
1 Front

seq_num	 	Sequence number
obs_id	60013	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	3.0506318821443	Nominal RA [deg]
dec_nom	-57.989890878817	Nominal Dec [deg]
roll_nom	347.93956739507	Nominal Roll [deg]
revision	4	Processing version of data
ontime	4909.6565173566	Sum of GTIs [s]
livetime	2387.0983222808	Livetime [s]
ontime0	4909.8206574321	Sum of GTIs [s]
ontime1	4909.7795975208	Sum of GTIs [s]
ontime2	4909.7385774255	Sum of GTIs [s]
ontime3	4909.6975374222	Sum of GTIs [s]
ontime7	4909.6565173566	Sum of GTIs [s]
l2events	329564	Number of level 2 events

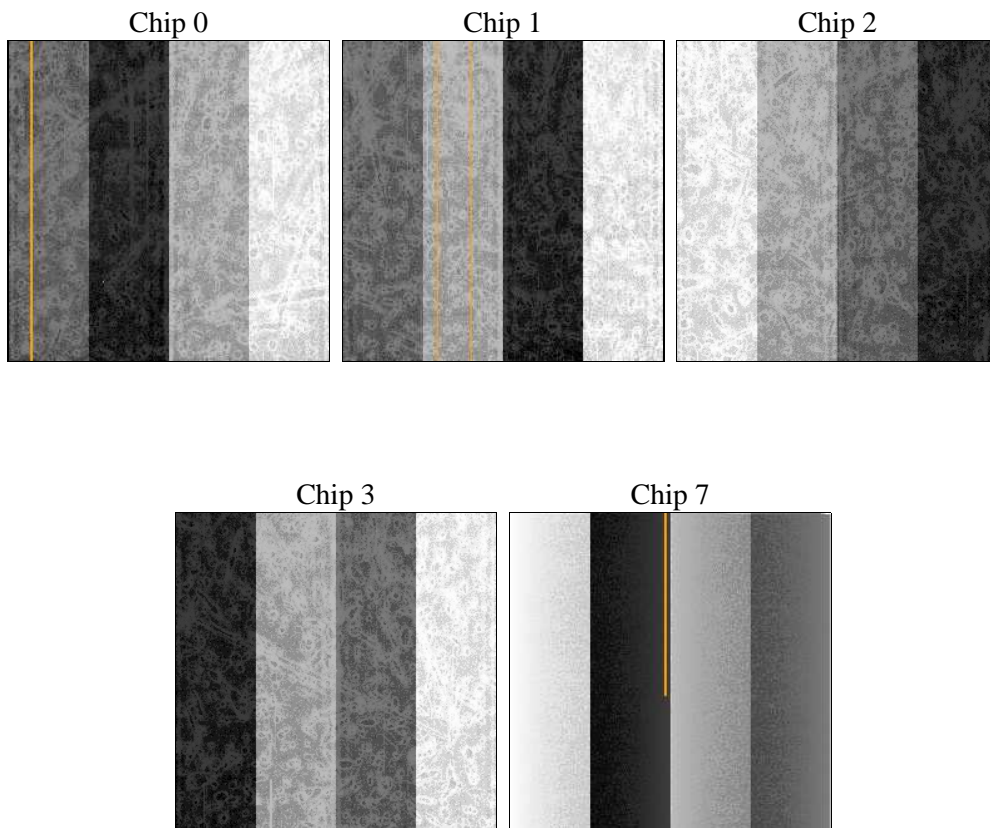
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6420	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	4909.6565173566	Sum of GTIs [s]
caldsver	4.5.4	 	ontime0	4909.8206574321	Sum of GTIs [s]
date	2012-12-09T23:46:26	Date and time of file creation	ontime1	4909.7795975208	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	4909.7385774255	Sum of GTIs [s]
			ontime3	4909.6975374222	Sum of GTIs [s]
			ontime7	4909.6565173566	Sum of GTIs [s]
			l1events	449917	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	87039	87495	90874	90968	93541
rejected events	19923	20036	22861	22733	17725
rejected %	22%	22%	25%	24%	18%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	37872	38070	38662	38993	18963
	43%	43%	42%	42%	20%
grade 1 events	231	232	255	249	54
	0%	0%	0%	0%	0%
grade 2 events	11934	12152	11892	11798	17197
	13%	13%	13%	12%	18%
grade 3 events	4478	4312	4643	4687	8096
	5%	4%	5%	5%	8%
grade 4 events	4432	4425	4519	4599	7783
	5%	5%	4%	5%	8%
grade 5 events	1141	1113	1159	1228	2956
	1%	1%	1%	1%	3%
grade 6 events	9842	9994	9768	9626	25448
	11%	11%	10%	10%	27%
grade 7 events	17109	17197	19976	19788	13044
	19%	19%	21%	21%	13%

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	3.050580647640136	3.050631882144307
[deg] Pointing Dec	-57.9898850429079	-57.98989087881694
[deg] Pointing Roll	347.9395239430012	347.9395673950718
[mm] SIM focus pos	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
[mm] SIM translation stage pos	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	213606241.858429	213606241.858429
Observation start date	2004-10-08T07:31:00	2004-10-08T07:04:01
[s] Observation end time (MET)	213615758.576924	213615758.576924
Observation end date	2004-10-08T09:18:00	2004-10-08T09:42:38
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	3
[s] Secondary exposure time	3.2	3.2
Duty cycle	1	1

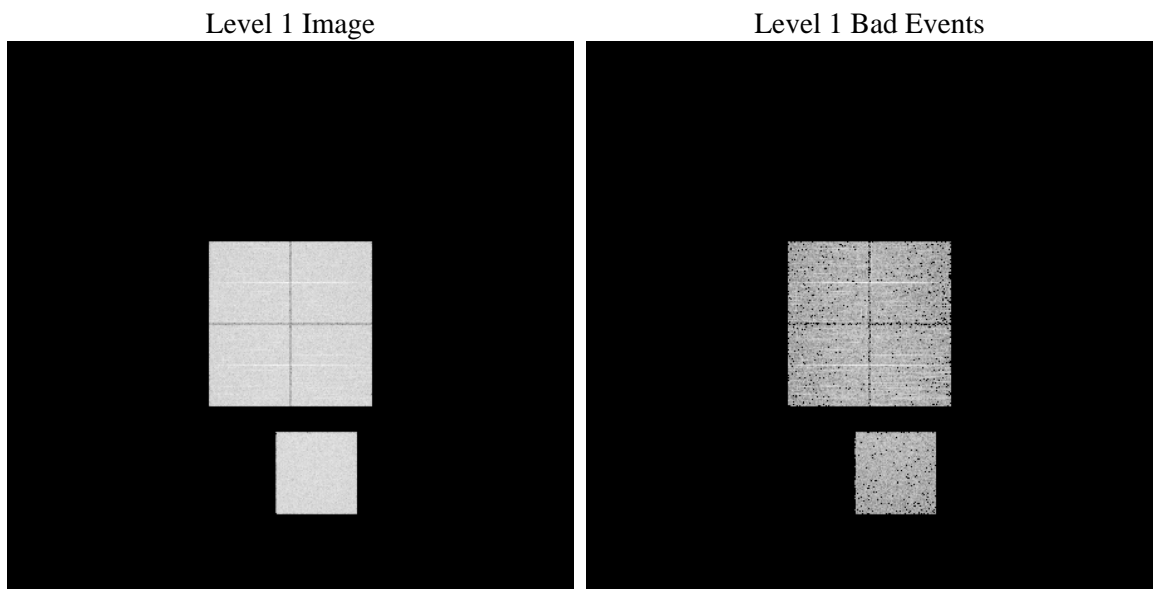
2.3 Star Slots

2.4 FID Slots

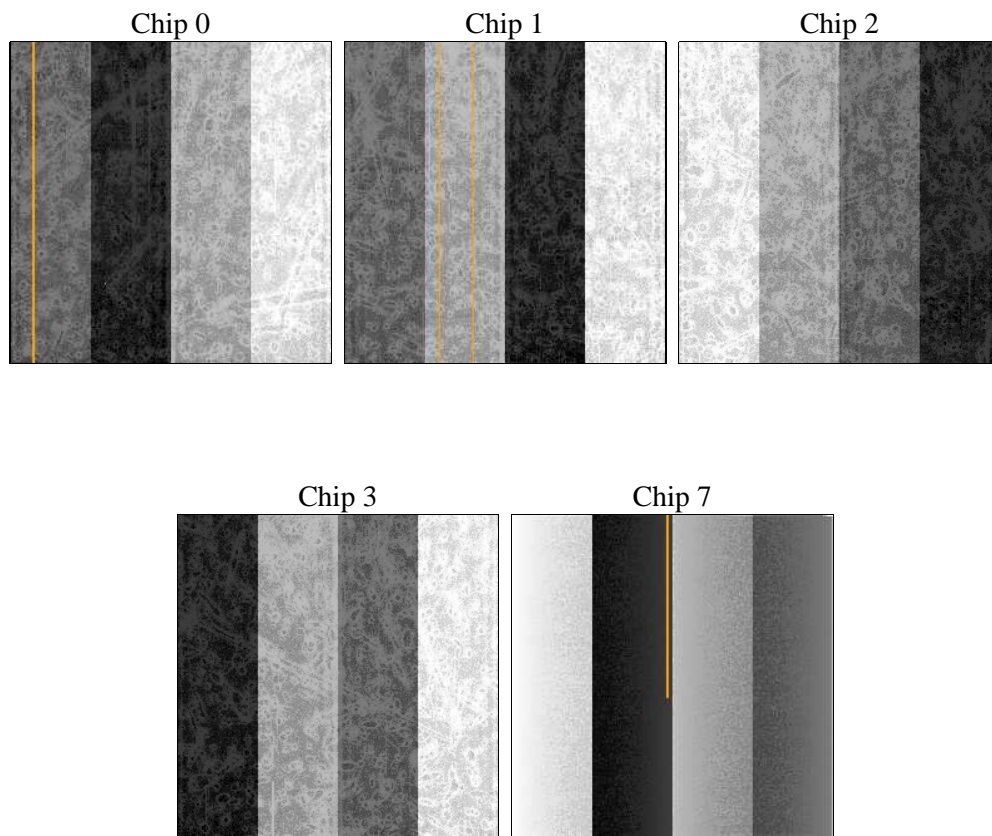
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	6420	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	2579.564438194	Sum of GTIs [s]
caldsver	4.5.4	 	ontime0	2579.5643983781	Sum of GTIs [s]
date	2012-12-09T23:46:41	Date and time of file creation	ontime1	2579.5644182861	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	2579.564438194	Sum of GTIs [s]
			ontime3	2579.5644182861	Sum of GTIs [s]
			ontime7	2579.564438194	Sum of GTIs [s]
			l1events	473201	Number of level 1 events

3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	92518	91701	94793	95875	98314
rejected events	20940	19634	22502	23846	18386
rejected %	22%	21%	23%	24%	18%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	40284	40230	41304	41227	19741
	43%	43%	43%	43%	20%
grade 1 events	247	225	274	263	58
	0%	0%	0%	0%	0%
grade 2 events	12765	13017	12490	12590	17810
	13%	14%	13%	13%	18%
grade 3 events	4703	4884	4765	4752	8185
	5%	5%	5%	4%	8%
grade 4 events	4676	4725	4889	4826	8077
	5%	5%	5%	5%	8%
grade 5 events	1202	1150	1114	1252	2960
	1%	1%	1%	1%	3%
grade 6 events	10635	10756	10351	10240	27760
	11%	11%	10%	10%	28%
grade 7 events	18006	16714	19606	20725	13723
	19%	18%	20%	21%	13%

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.12.21
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.4892209555506

A.2 Comments