

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 59958 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 12 2012

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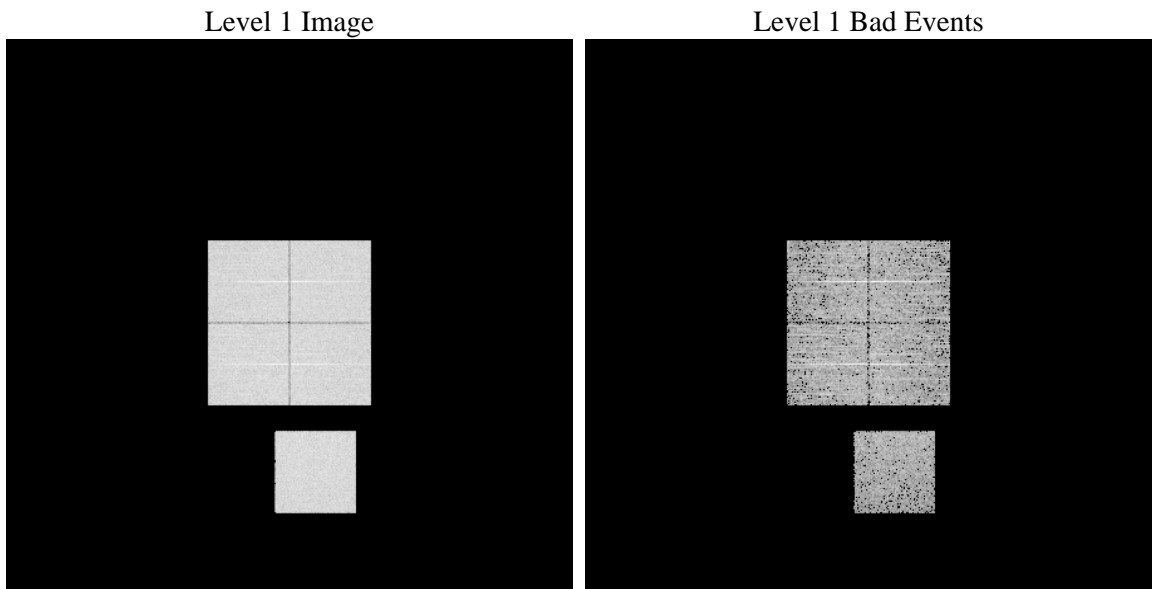
1 Front

seq_num	 	Sequence number
obs_id	59958	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	45.430106025158	Nominal RA [deg]
dec_nom	-6.893517215405	Nominal Dec [deg]
roll_nom	334.88789194241	Nominal Roll [deg]
revision	3	Processing version of data
ontime	5327.0629179776	Sum of GTIs [s]
livetime	2590.0432971704	Livetime [s]
ontime0	5327.0629179776	Sum of GTIs [s]
ontime1	5327.0628980696	Sum of GTIs [s]
ontime2	5327.0628980696	Sum of GTIs [s]
ontime3	5327.0628781915	Sum of GTIs [s]
ontime7	5327.0629179776	Sum of GTIs [s]
l2events	345854	Number of level 2 events

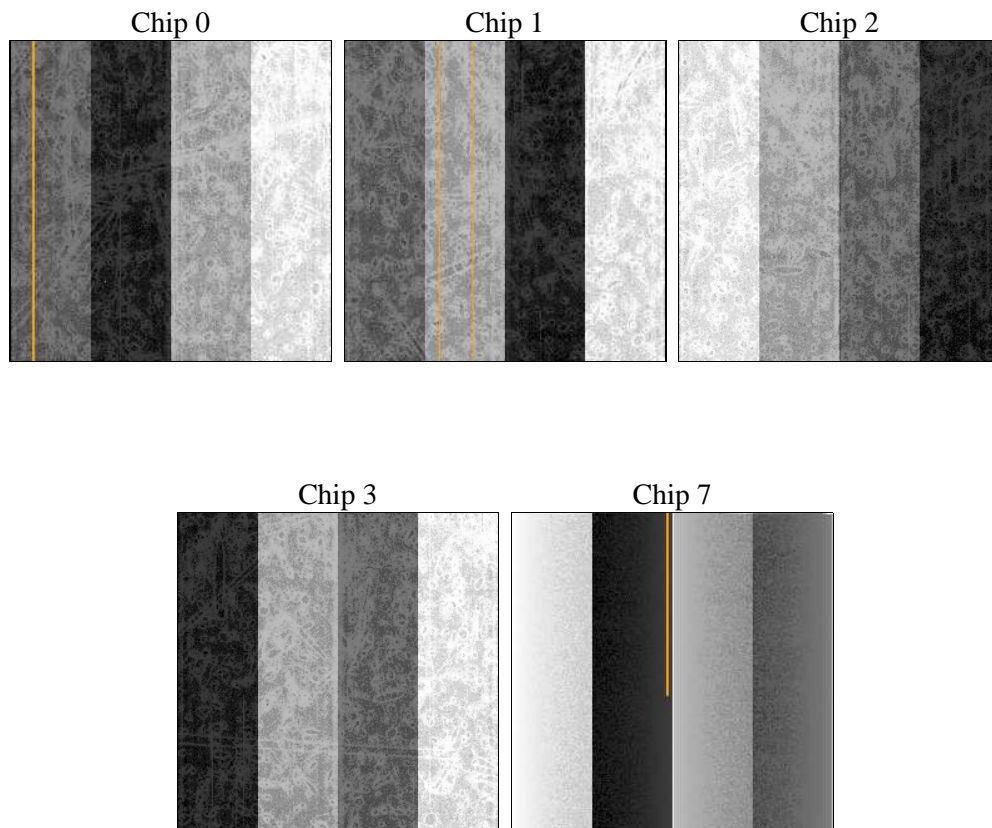
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	5327.0629179776	Sum of GTIs [s]
caldsver	4.5.4	 	ontime0	5327.0629179776	Sum of GTIs [s]
date	2012-12-12T05:49:42	Date and time of file creation	ontime1	5327.0628980696	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	5327.0628980696	Sum of GTIs [s]
			ontime3	5327.0628781915	Sum of GTIs [s]
			ontime7	5327.0629179776	Sum of GTIs [s]
			l1events	464223	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	90258	90864	94279	92622	96200
rejected events	19850	20209	22519	20964	16787
rejected %	21%	22%	23%	22%	17%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	38753	38616	40262	40127	19582
	42%	42%	42%	43%	20%
grade 1 events	219	207	273	259	69
	0%	0%	0%	0%	0%
grade 2 events	12382	12685	12240	12357	17519
	13%	13%	12%	13%	18%
grade 3 events	4556	4431	4609	4658	7877
	5%	4%	4%	5%	8%
grade 4 events	4568	4744	4638	4711	8013
	5%	5%	4%	5%	8%
grade 5 events	1198	1196	1220	1273	3049
	1%	1%	1%	1%	3%
grade 6 events	10222	10256	10085	9871	26509
	11%	11%	10%	10%	27%
grade 7 events	18360	18729	20952	19366	13582
	20%	20%	22%	20%	14%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-01237	ACIS-01237	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
[deg] Pointing RA	0	45.43010602515757	Alternating exposures requested	Y	Y
[deg] Pointing Dec	0	-6.893517215404993	[s] Primary exposure time	3	3
[deg] Pointing Roll	0.0	334.8878919424131	[s] Secondary exposure time	3.2	3.2
[mm] SIM focus pos	-0.782348	-0.7809083437167272	Duty cycle	1	1
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	217527297.534117	217527296.50911			
Observation start date	2004-11-22T16:14:58	2004-11-22T16:14:56			
[s] Observation end time (MET)	217551423.9852	217551422.9602			
Observation end date	2004-11-22T22:57:04	2004-11-22T22:57:02			
Read mode	TIMED	TIMED			

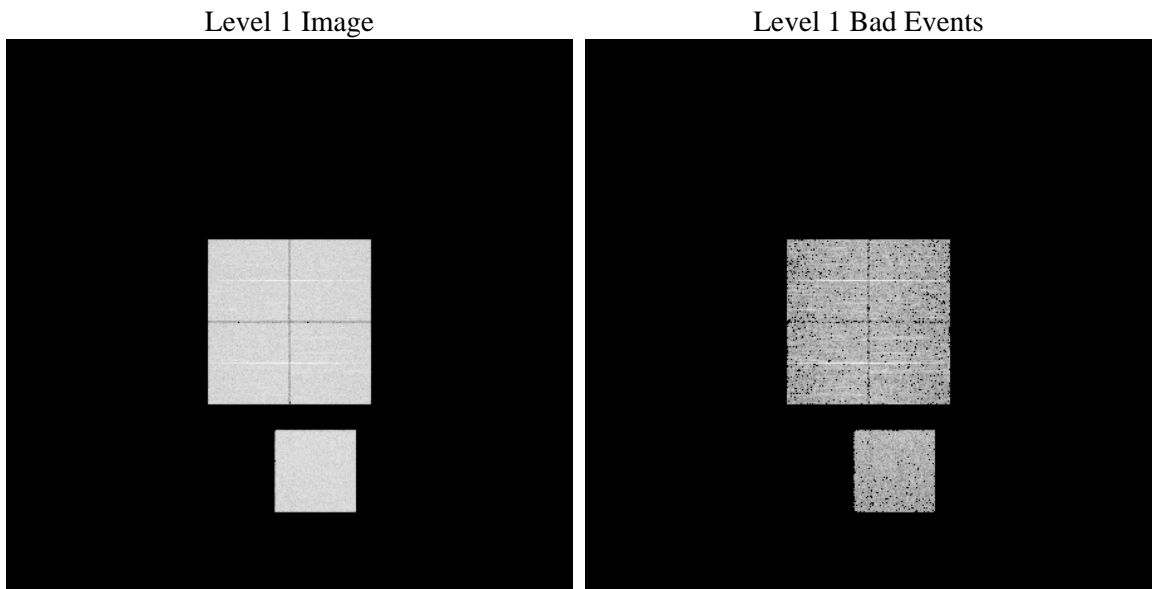
2.3 Star Slots

2.4 FID Slots

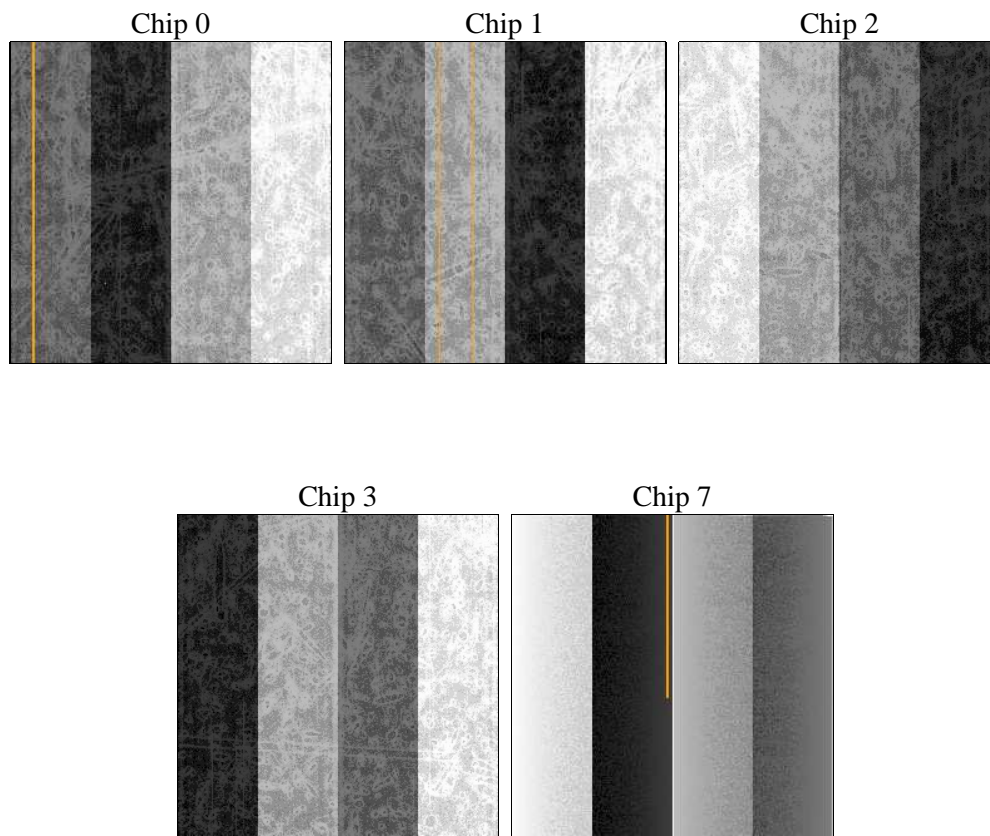
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.5	Processing system revision	ontime	2796.1632778943	Sum of GTIs [s]
caldsver	4.5.4	 	ontime0	2796.1632579863	Sum of GTIs [s]
date	2012-12-12T05:49:54	Date and time of file creation	ontime1	2796.1632778943	Sum of GTIs [s]
revision	3	Processing version of data	ontime2	2796.1632579863	Sum of GTIs [s]
			ontime3	2796.1632977724	Sum of GTIs [s]
			ontime7	2796.1632778943	Sum of GTIs [s]
			l1events	488361	Number of level 1 events

3.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
level 1 events	95397	95289	98017	97274	102384
rejected events	20148	19474	21874	20795	17680
rejected %	21%	20%	22%	21%	17%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 7
grade 0 events	41110	41592	42311	42959	20379
	43%	43%	43%	44%	19%
grade 1 events	263	201	298	254	53
	0%	0%	0%	0%	0%
grade 2 events	13277	13469	13006	13031	18494
	13%	14%	13%	13%	18%
grade 3 events	4923	4779	5113	4995	8362
	5%	5%	5%	5%	8%
grade 4 events	4940	4855	4959	5007	8336
	5%	5%	5%	5%	8%
grade 5 events	1219	1287	1229	1331	3163
	1%	1%	1%	1%	3%
grade 6 events	11087	11198	10849	10550	29219
	11%	11%	11%	10%	28%
grade 7 events	18578	17908	20252	19147	14378
	19%	18%	20%	19%	14%

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.01.04
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1232261958719

A.2 Comments