

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 54735 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Apr 1 2012

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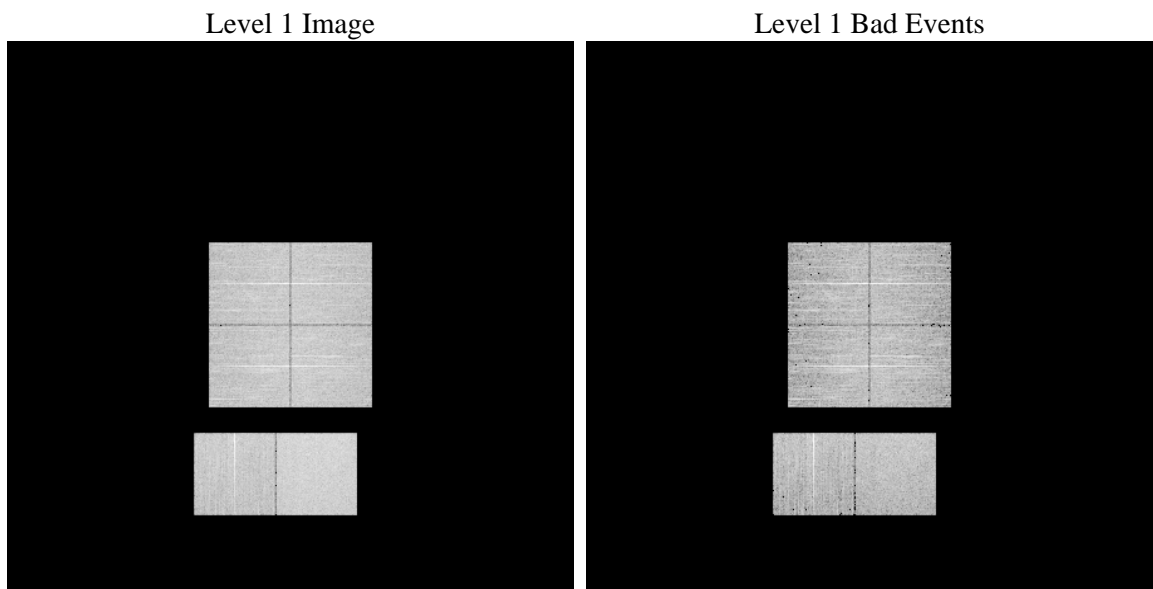
1 Front

seq_num	 	Sequence number
obs_id	54735	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object	 	Source name
dtcycle	0	
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	170.21641700769	Nominal RA [deg]
dec_nom	-25.100055545342	Nominal Dec [deg]
roll_nom	312.70343258835	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8146.1941532493	Sum of GTIs [s]
livetime	8043.0421378316	Livetime [s]
ontime0	8045.6808732748	Sum of GTIs [s]
ontime1	8048.8808732629	Sum of GTIs [s]
ontime2	8045.5987932682	Sum of GTIs [s]
ontime3	8049.0039932728	Sum of GTIs [s]
ontime6	8052.0398332477	Sum of GTIs [s]
ontime7	8146.1941532493	Sum of GTIs [s]
l2events	248734	Number of level 2 events

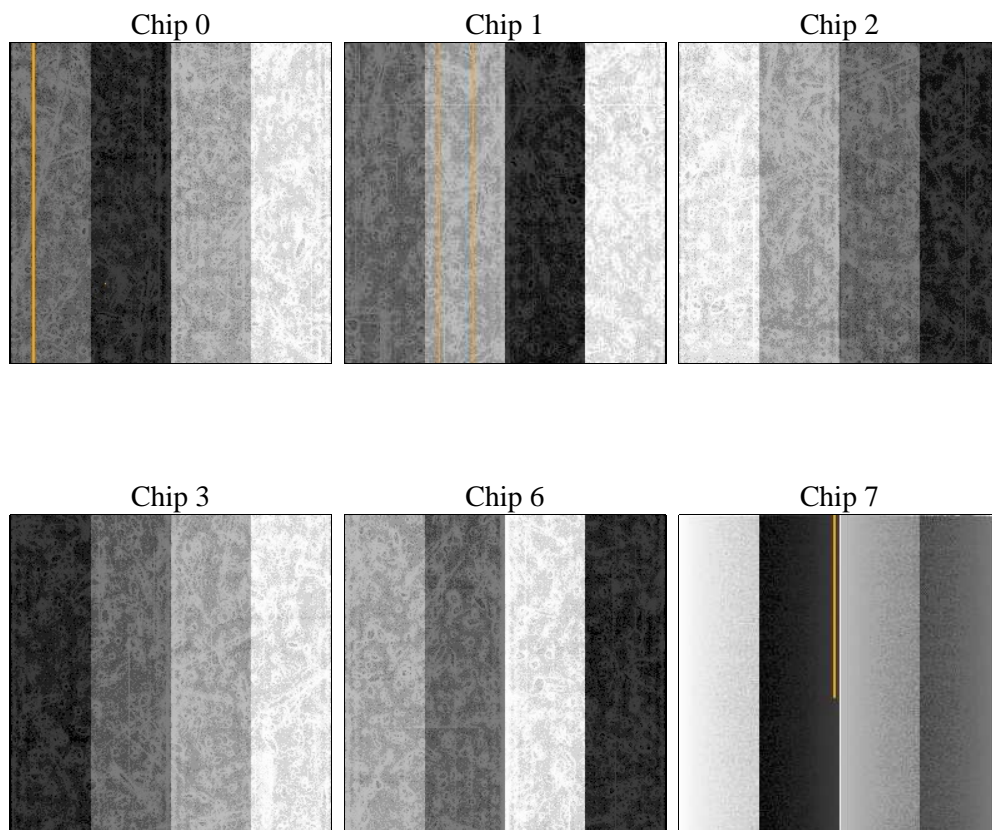
2 OBI

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	8.4.3	Processing system revision	ontime	8146.1941532493	Sum of GTIs [s]
caldbver	4.4.9	 	ontime0	8045.6808732748	Sum of GTIs [s]
date	2012-04-02T00:48:39	Date and time of file creation	ontime1	8048.8808732629	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	8045.5987932682	Sum of GTIs [s]
			ontime3	8049.0039932728	Sum of GTIs [s]
			ontime6	8052.0398332477	Sum of GTIs [s]
			ontime7	8146.1941532493	Sum of GTIs [s]
			l1events	579102	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7		ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	89117	88469	91767	94058	92794	122897	grade 0 events	20388	19119	21448	21478	18705	10369
rejected events	49933	48698	52732	54278	52896	56905		22%	21%	23%	22%	20%	8%
rejected %	56%	55%	57%	57%	57%	46%	grade 1 events	119	81	123	129	72	100
								0%	0%	0%	0%	0%	0%
							grade 2 events	7920	9294	6970	7327	9814	14883
								8%	10%	7%	7%	10%	12%
							grade 3 events	2658	2557	2684	2676	2385	5511
								2%	2%	2%	2%	2%	4%
							grade 4 events	2690	2480	2685	2805	2347	5369
								3%	2%	2%	2%	2%	4%
							grade 5 events	2937	2888	2717	3252	2952	7794
								3%	3%	2%	3%	3%	6%
							grade 6 events	6269	6994	5991	6170	7410	31061
								7%	7%	6%	6%	7%	25%
							grade 7 events	46136	45056	49149	50221	49109	47810
								51%	50%	53%	53%	52%	38%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-012367	ACIS-012367
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	170.2164170076925
[deg] Pointing Dec	0	-25.1000555453419
[deg] Pointing Roll	0.0	312.7034325883482
SIM focus pos (mm)	-1.4281808131	-1.4281808131
[mm] SIM defocus	0.1051557500557434	0.1051557500557434
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	449657028.088691	449657028.088691
Observation start date	2012-04-01T08:43:48	2012-04-01T08:43:48
[s] Observation end time (MET)	449666847.605421	449666847.605421
Observation end date	2012-04-01T11:27:28	2012-04-01T11:27:27
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	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	Joy Nichols
V&V Date (YYYY-MM-DD)	2012.04.02
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.1461941532493

A.2 Comments

The bias maps for CCD_ID = 1 and 3 suffer from anomalously high bias values in an 'exacto-knife'-shaped area of the bias file. Pixels in the event data that have been bias-corrected by one of the affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. These bias maps will not be repaired because the high FP temp of this observation leaves few choices of compatible bias files from other obsids.

For both CCD_ID = 1 and 3, the elevation in adu values is 1-3 adu.