

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59433 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 7 2013

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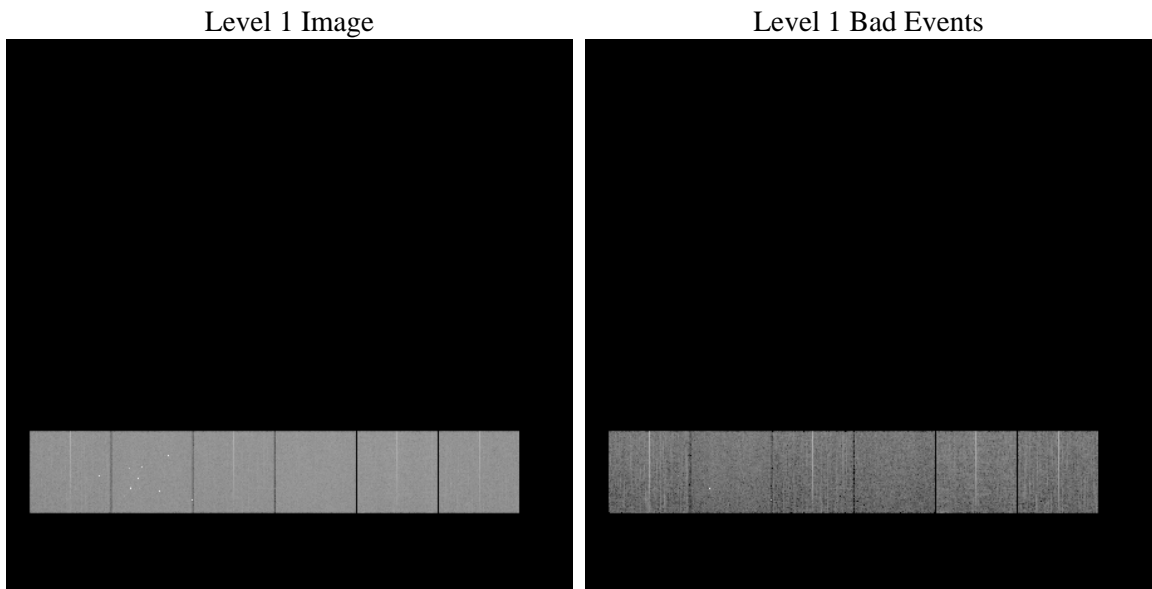
1 Front

seq_num	 	Sequence number
obs_id	59433	Observation id
title	ACIS-456789 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	349.98233342403	Nominal RA [deg]
dec_nom	29.275901377984	Nominal Dec [deg]
roll_nom	204.50909195334	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8284.3210764527	Sum of GTIs [s]
livetime	8179.4200147634	Livetime [s]
ontime4	7895.2803604007	Sum of GTIs [s]
ontime5	8284.2800364494	Sum of GTIs [s]
ontime6	8206.4554991126	Sum of GTIs [s]
ontime7	8284.3210764527	Sum of GTIs [s]
ontime8	8274.4339756072	Sum of GTIs [s]
ontime9	8067.216455996	Sum of GTIs [s]
l2events	1058370	Number of level 2 events

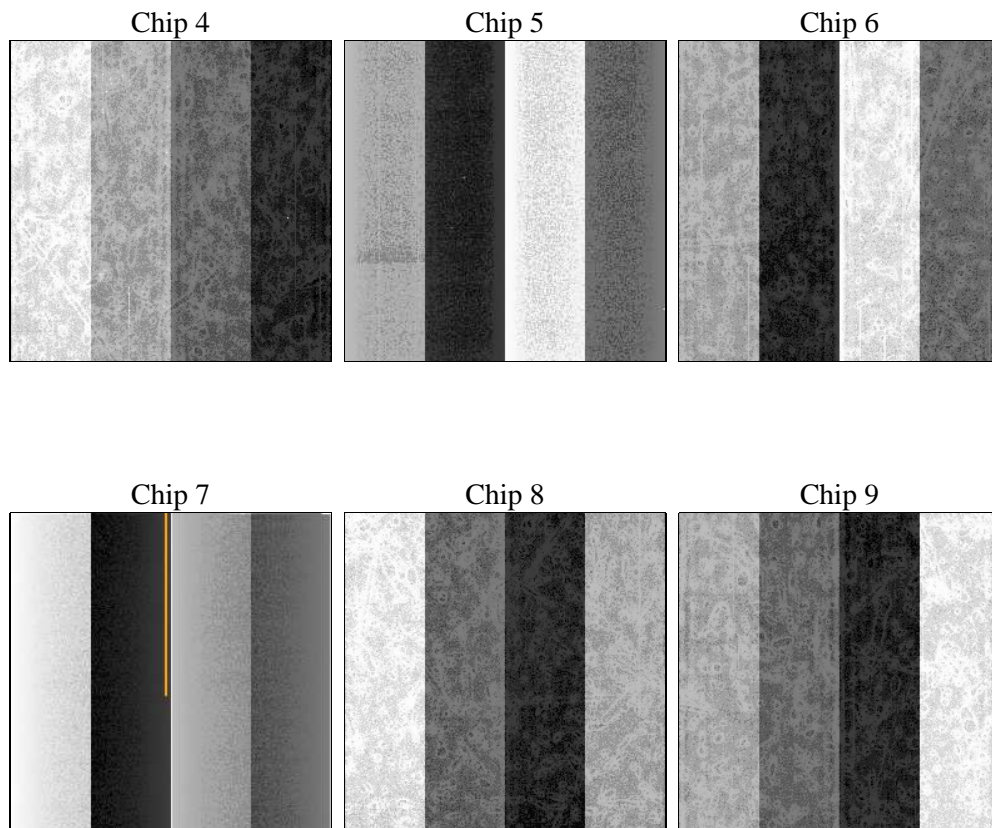
2 OBI

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	8.5.1.1	Processing system revision	ontime	8284.3210764527	Sum of GTIs [s]
caldsver	4.5.6	 	ontime4	7895.2803604007	Sum of GTIs [s]
date	2013-03-08T01:48:41	Date and time of file creation	ontime5	8284.2800364494	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	8206.4554991126	Sum of GTIs [s]
			ontime7	8284.3210764527	Sum of GTIs [s]
			ontime8	8274.4339756072	Sum of GTIs [s]
			ontime9	8067.216455996	Sum of GTIs [s]
			l1events	1482956	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	230695	253543	244669	255094	262480	236475	grade 0 events	100364	44531	102540	48492	106800	97932
rejected events	59287	57624	55574	48972	64319	57972		43%	17%	41%	19%	40%	41%
rejected %	25%	22%	22%	19%	24%	24%	grade 1 events	702	219	470	139	568	518
								0%	0%	0%	0%	0%	0%
							grade 2 events	26759	69566	32803	45110	35160	30728
								11%	27%	13%	17%	13%	12%
							grade 3 events	11538	10594	11784	20523	12988	11597
								5%	4%	4%	8%	4%	4%
							grade 4 events	11166	10636	11665	20157	12968	11448
								4%	4%	4%	7%	4%	4%
							grade 5 events	3366	9169	3566	8761	4567	3907
								1%	3%	1%	3%	1%	1%
							grade 6 events	21654	60674	30373	71937	30319	26860
								9%	23%	12%	28%	11%	11%
							grade 7 events	55146	48154	51468	39975	59110	53485
								23%	18%	21%	15%	22%	22%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-456789	ACIS-456789	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	349.9823334240301	Alternating exposures requested	N	N
[deg] Pointing Dec	0	29.27590137798391	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	204.5090919533361			
[mm] SIM focus pos	-0.684267	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-190.132523	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	244027667.189228	244027666.16421			
Observation start date	2005-09-25T09:27:47	2005-09-25T09:27:46			
[s] Observation end time (MET)	244050085.990261	244050084.96524			
Observation end date	2005-09-25T15:41:26	2005-09-25T15:41:24			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2013.03.08
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2843210764527

A.2 Comments

As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. The value for FP temperature reported in the headers of the Level 2 event file and the Mission Timeline files are incorrect by this amount for this processing. However, the temperature is corrected in the processing in order to obtain the correct temperature for the CTI correction. So the calibrated data are correct. If using the FP temp values in the headers of data files (some CIAO tools require this information), investigators should subtract 1.3 degrees from the reported temperature to determine the true temperature.