

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59399 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 8 2013

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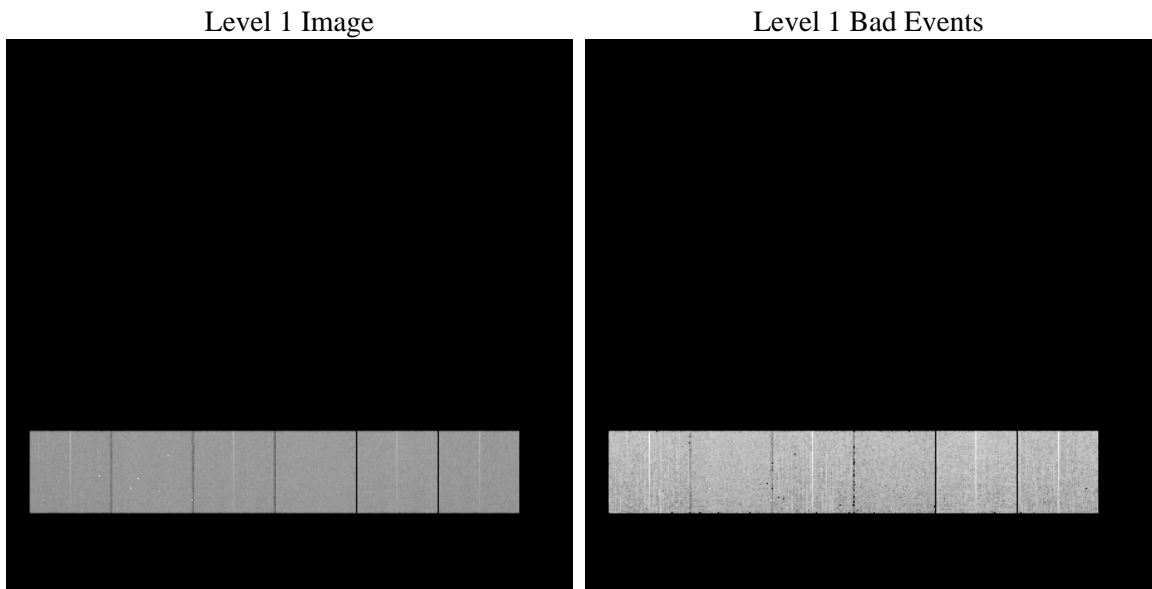
1 Front

seq_num	 	Sequence number
obs_id	59399	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	32.510689974201	Nominal RA [deg]
dec_nom	-16.473280947175	Nominal Dec [deg]
roll_nom	36.133800623889	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7800.8105846047	Sum of GTIs [s]
livetime	7702.0320238983	Livetime [s]
ontime4	7434.4568910599	Sum of GTIs [s]
ontime5	7800.7695446014	Sum of GTIs [s]
ontime6	7781.2826128304	Sum of GTIs [s]
ontime7	7800.8105846047	Sum of GTIs [s]
ontime8	7800.6464246213	Sum of GTIs [s]
ontime9	7667.9715124071	Sum of GTIs [s]
l2events	994214	Number of level 2 events

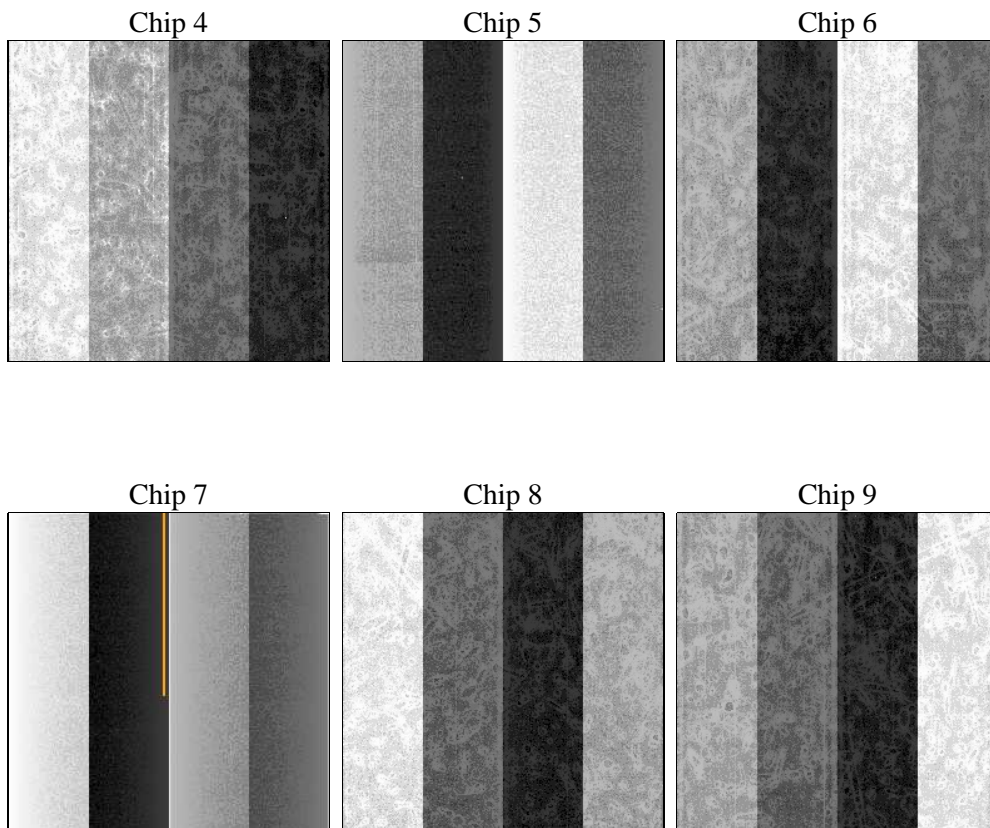
2 OBI

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	7800.8105846047	Sum of GTIs [s]
caldsver	4.5.6	 	ontime4	7434.4568910599	Sum of GTIs [s]
date	2013-03-08T21:06:58	Date and time of file creation	ontime5	7800.7695446014	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	7781.2826128304	Sum of GTIs [s]
			ontime7	7800.8105846047	Sum of GTIs [s]
			ontime8	7800.6464246213	Sum of GTIs [s]
			ontime9	7667.9715124071	Sum of GTIs [s]
			l1events	1397775	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	216725	232406	234217	242320	247955	224152	grade 0 events	92403	38417	95896	45452	99042	92111
rejected events	57813	53387	56252	47661	63271	56141		42%	16%	40%	18%	39%	41%
rejected %	26%	22%	24%	19%	25%	25%	grade 1 events	696	254	467	162	541	570
								0%	0%	0%	0%	0%	0%
							grade 2 events	24943	63934	30991	42618	33017	28944
								11%	27%	13%	17%	13%	12%
							grade 3 events	10634	10448	11307	19473	12081	10872
								4%	4%	4%	8%	4%	4%
							grade 4 events	10550	10268	11159	19488	12108	10849
								4%	4%	4%	8%	4%	4%
							grade 5 events	3129	8202	3616	8568	4432	3801
								1%	3%	1%	3%	1%	1%
							grade 6 events	20382	55952	28612	67628	28436	25235
								9%	24%	12%	27%	11%	11%
							grade 7 events	53988	44931	52169	38931	58298	51770
								24%	19%	22%	16%	23%	23%

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	32.51068997420145	Alternating exposures requested	N	N
[deg] Pointing Dec	0	-16.47328094717537	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	36.13380062388851			
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-190.132523	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	245357016.400382	245357015.37538			
Observation start date	2005-10-10T18:43:36	2005-10-10T18:43:35			
[s] Observation end time (MET)	245377340.101318	245377339.07632			
Observation end date	2005-10-11T00:22:20	2005-10-11T00:22:19			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2013.03.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	7.8008105846047

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.