

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59420 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 8 2013

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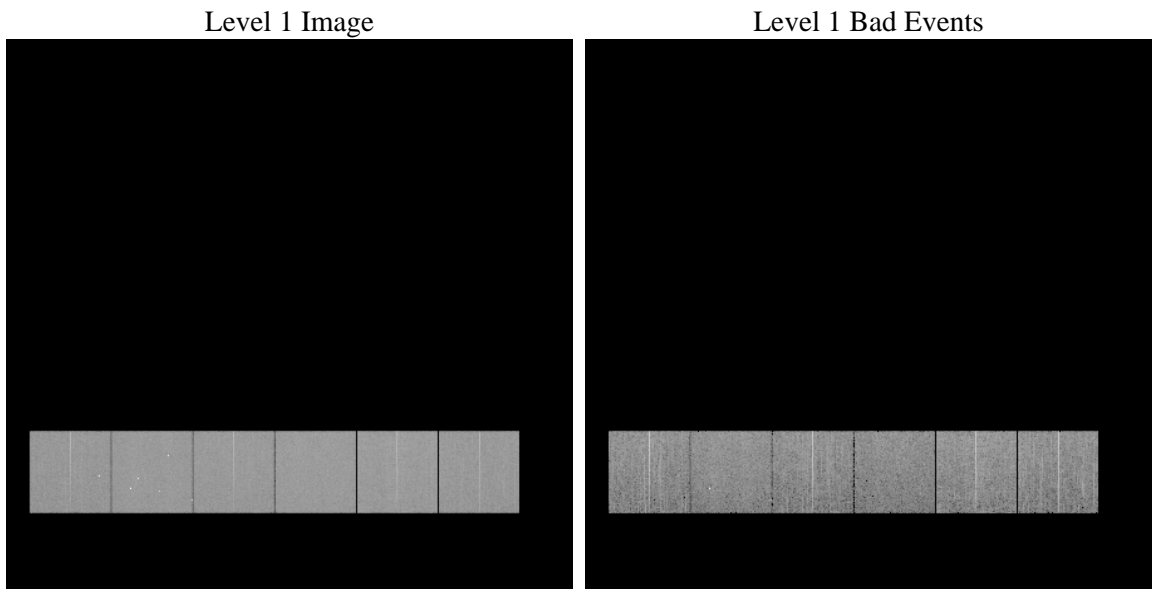
1 Front

seq_num	 	Sequence number
obs_id	59420	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	350.98825037259	Nominal RA [deg]
dec_nom	28.473921912662	Nominal Dec [deg]
roll_nom	217.85465751057	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7798.3999709487	Sum of GTIs [s]
livetime	7699.6519348838	Livetime [s]
ontime4	7334.9390589595	Sum of GTIs [s]
ontime5	7798.3999709487	Sum of GTIs [s]
ontime6	7649.31462726	Sum of GTIs [s]
ontime7	7798.3999709487	Sum of GTIs [s]
ontime8	7798.3999709487	Sum of GTIs [s]
ontime9	7571.5312295556	Sum of GTIs [s]
l2events	997291	Number of level 2 events

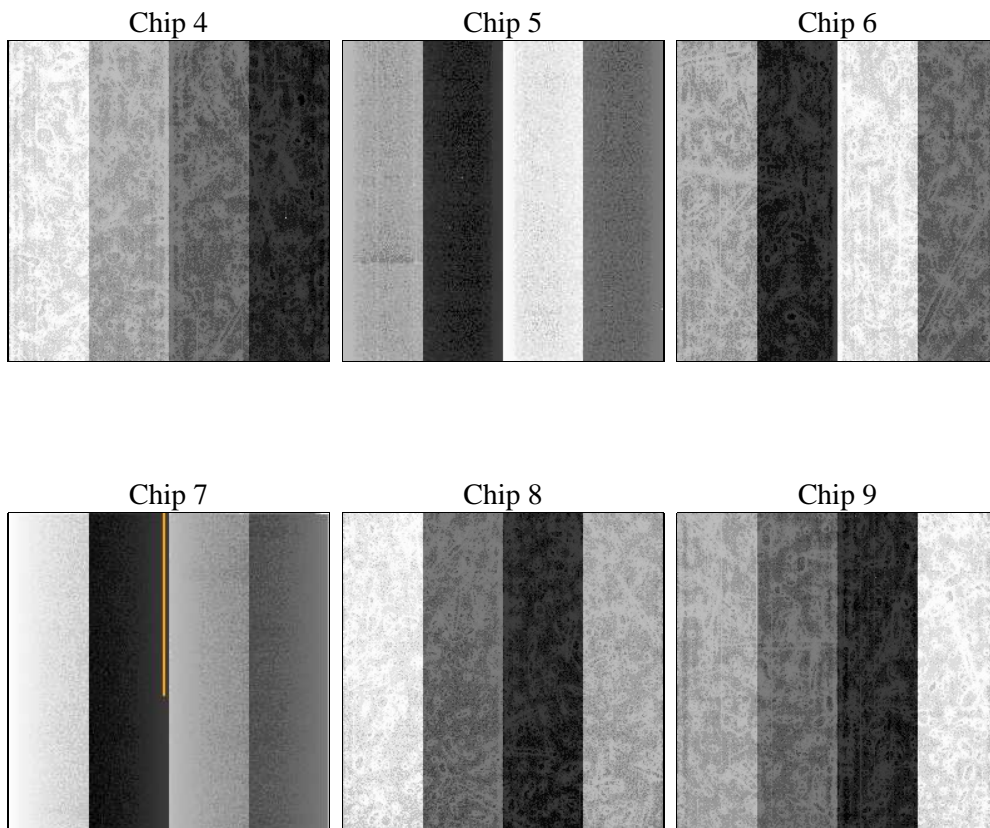
2 OBI

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	7798.3999709487	Sum of GTIs [s]
caldsver	4.5.6	 	ontime4	7334.9390589595	Sum of GTIs [s]
date	2013-03-08T21:11:22	Date and time of file creation	ontime5	7798.3999709487	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	7649.31462726	Sum of GTIs [s]
			ontime7	7798.3999709487	Sum of GTIs [s]
			ontime8	7798.3999709487	Sum of GTIs [s]
			ontime9	7571.5312295556	Sum of GTIs [s]
			l1events	1398603	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	215476	235434	230949	242873	249055	224816	grade 0 events	92324	39569	96052	46071	100410	92439
rejected events	57295	54575	54384	46806	61664	56531		42%	16%	41%	18%	40%	41%
rejected %	26%	23%	23%	19%	24%	25%	grade 1 events	732	1003	446	138	478	597
								0%	0%	0%	0%	0%	0%
							grade 2 events	24543	65251	30493	43369	33110	28612
								11%	27%	13%	17%	13%	12%
							grade 3 events	10731	9956	10976	19524	12336	10777
								4%	4%	4%	8%	4%	4%
							grade 4 events	10490	9788	10974	19169	12479	10896
								4%	4%	4%	7%	5%	4%
							grade 5 events	3227	8101	3581	8269	4343	3680
								1%	3%	1%	3%	1%	1%
							grade 6 events	20165	56351	28152	68021	29138	25561
								9%	23%	12%	28%	11%	11%
							grade 7 events	53264	45415	50275	38312	56761	52254
								24%	19%	21%	15%	22%	23%

2.2 Compared Parameters

Parameter	Planned	Actual
Instrument	ACIS	ACIS
Detector	ACIS-456789	ACIS-456789
Grating	NONE	NONE
Data mode	FAINT	FAINT
Observation mode	SECONDARY	SECONDARY
[deg] Pointing RA	0	350.9882503725914
[deg] Pointing Dec	0	28.47392191266239
[deg] Pointing Roll	0.0	217.8546575105707
[mm] SIM focus pos	-0.684267	-1.038866356238299
[mm] SIM defocus	0	0.4944702831659975
[mm] SIM translation stage pos	-190.132523	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	244671861.268839	244671860.24384
Observation start date	2005-10-02T20:24:21	2005-10-02T20:24:20
[s] Observation end time (MET)	244691840.569758	244691839.54476
Observation end date	2005-10-03T01:57:21	2005-10-03T01:57:19
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	NONE	UPDATED
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	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	7.7983999709487

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.