

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59435 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 7 2013

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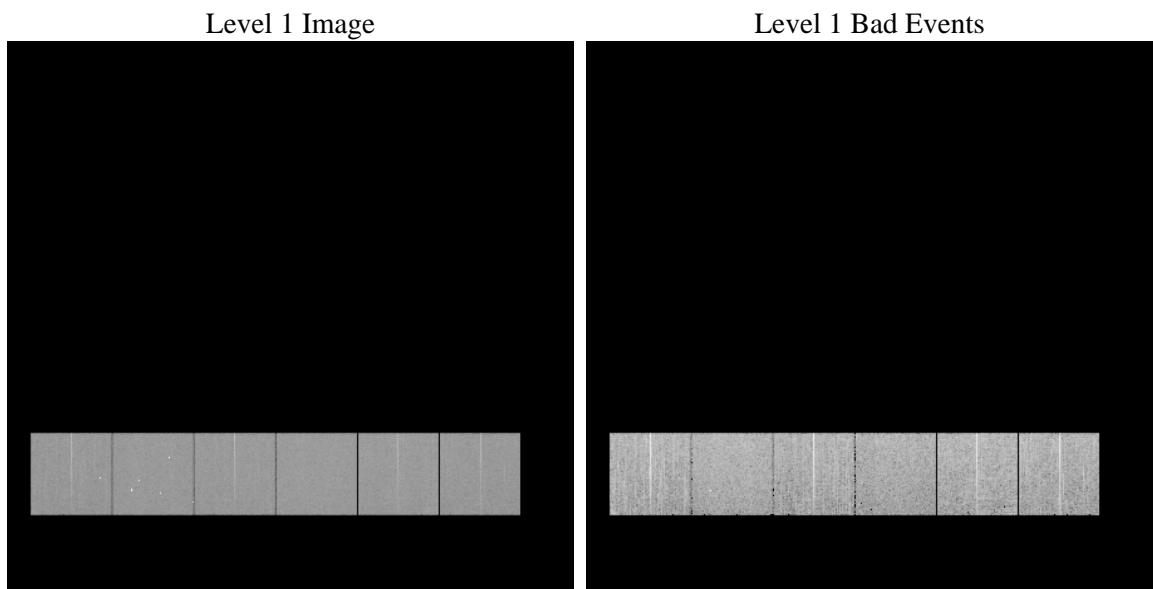
1 Front

seq_num	 	Sequence number
obs_id	59435	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	339.99603482815	Nominal RA [deg]
dec_nom	23.972386232905	Nominal Dec [deg]
roll_nom	225.33435351892	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7800.9522308707	Sum of GTIs [s]
livetime	7702.1718765539	Livetime [s]
ontime4	7606.3697332144	Sum of GTIs [s]
ontime5	7800.9111908674	Sum of GTIs [s]
ontime6	7800.8701508641	Sum of GTIs [s]
ontime7	7800.9522308707	Sum of GTIs [s]
ontime8	7800.7880708873	Sum of GTIs [s]
ontime9	7768.5833778977	Sum of GTIs [s]
l2events	1001826	Number of level 2 events

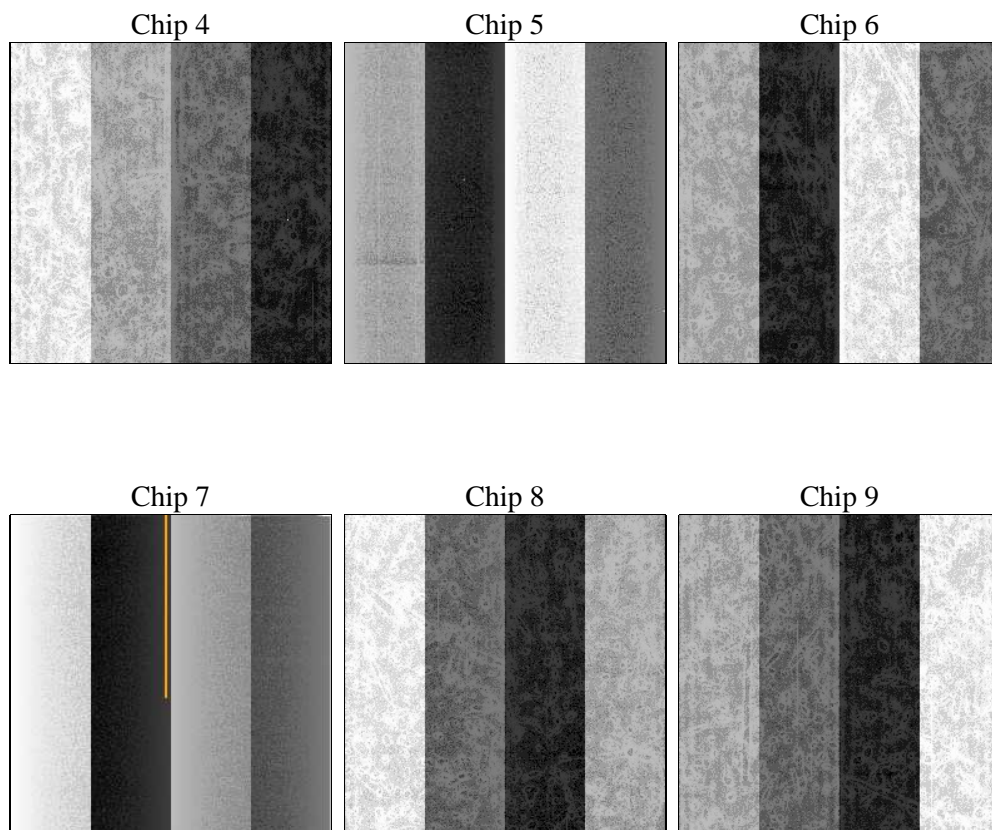
2 OBI

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	7800.9522308707	Sum of GTIs [s]
caldsver	4.5.6	 	ontime4	7606.3697332144	Sum of GTIs [s]
date	2013-03-08T01:52:59	Date and time of file creation	ontime5	7800.9111908674	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	7800.8701508641	Sum of GTIs [s]
			ontime7	7800.9522308707	Sum of GTIs [s]
			ontime8	7800.7880708873	Sum of GTIs [s]
			ontime9	7768.5833778977	Sum of GTIs [s]
			l1events	1395670	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	221613	233343	232377	239780	242935	225622	grade 0 events	95766	40028	97345	45992	100719	94360
rejected events	58244	52088	53338	45960	57468	54161		43%	17%	41%	19%	41%	41%
rejected %	26%	22%	22%	19%	23%	24%	grade 1 events	696	428	489	161	463	503
								0%	0%	0%	0%	0%	0%
							grade 2 events	25507	66216	30836	42832	32370	29350
								11%	28%	13%	17%	13%	13%
							grade 3 events	10781	9845	11156	19363	12152	10980
								4%	4%	4%	8%	5%	4%
							grade 4 events	10791	9830	11373	18757	12031	11085
								4%	4%	4%	7%	4%	4%
							grade 5 events	3113	7882	3512	8042	4136	3662
								1%	3%	1%	3%	1%	1%
							grade 6 events	20524	55336	28329	66876	28195	25686
								9%	23%	12%	27%	11%	11%
							grade 7 events	54435	43778	49337	37757	52869	49996
								24%	18%	21%	15%	21%	22%

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	339.996034828151
[deg] Pointing Dec	0	23.97238623290479
[deg] Pointing Roll	0.0	225.3343535189225
[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)	243986466.287331	243986465.26231
Observation start date	2005-09-24T22:01:06	2005-09-24T22:01:05
[s] Observation end time (MET)	244006679.288262	244006678.26324
Observation end date	2005-09-25T03:37:59	2005-09-25T03:37:58
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	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	7.8009522308707

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.