

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59414 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 8 2013

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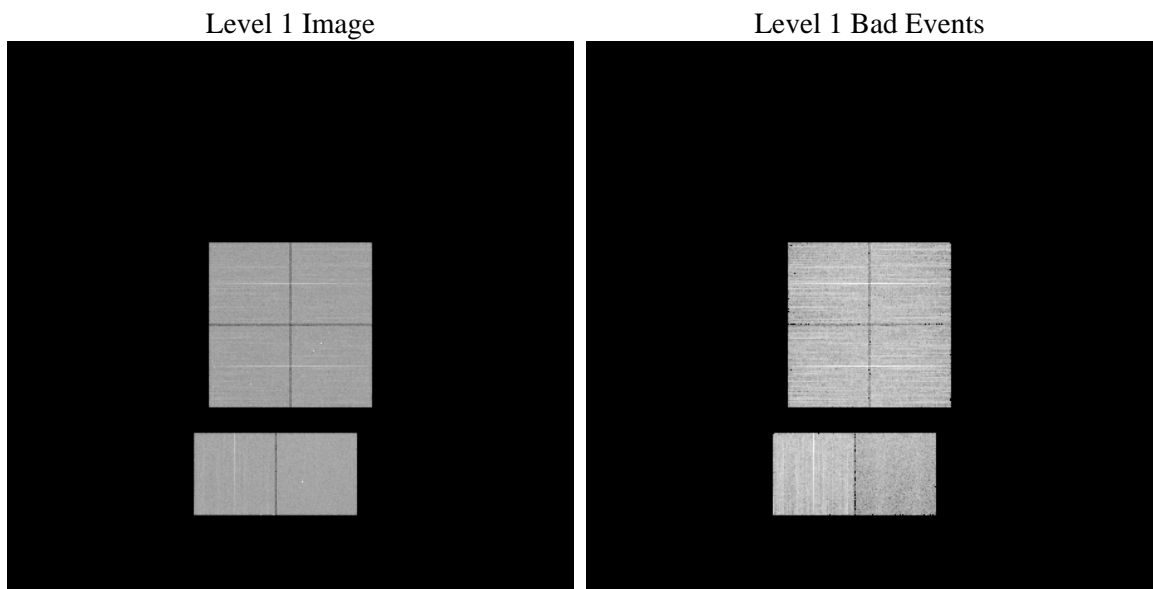
1 Front

seq_num	 	Sequence number
obs_id	59414	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	1.979556360534	Nominal RA [deg]
dec_nom	31.977244963109	Nominal Dec [deg]
roll_nom	199.75797541652	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6003.1999776363	Sum of GTIs [s]
livetime	5927.1838448265	Livetime [s]
ontime0	5620.7649336159	Sum of GTIs [s]
ontime1	5824.9465709925	Sum of GTIs [s]
ontime2	5419.8246451616	Sum of GTIs [s]
ontime3	5646.6929452419	Sum of GTIs [s]
ontime6	5996.7180170417	Sum of GTIs [s]
ontime7	6003.1999776363	Sum of GTIs [s]
l2events	679911	Number of level 2 events

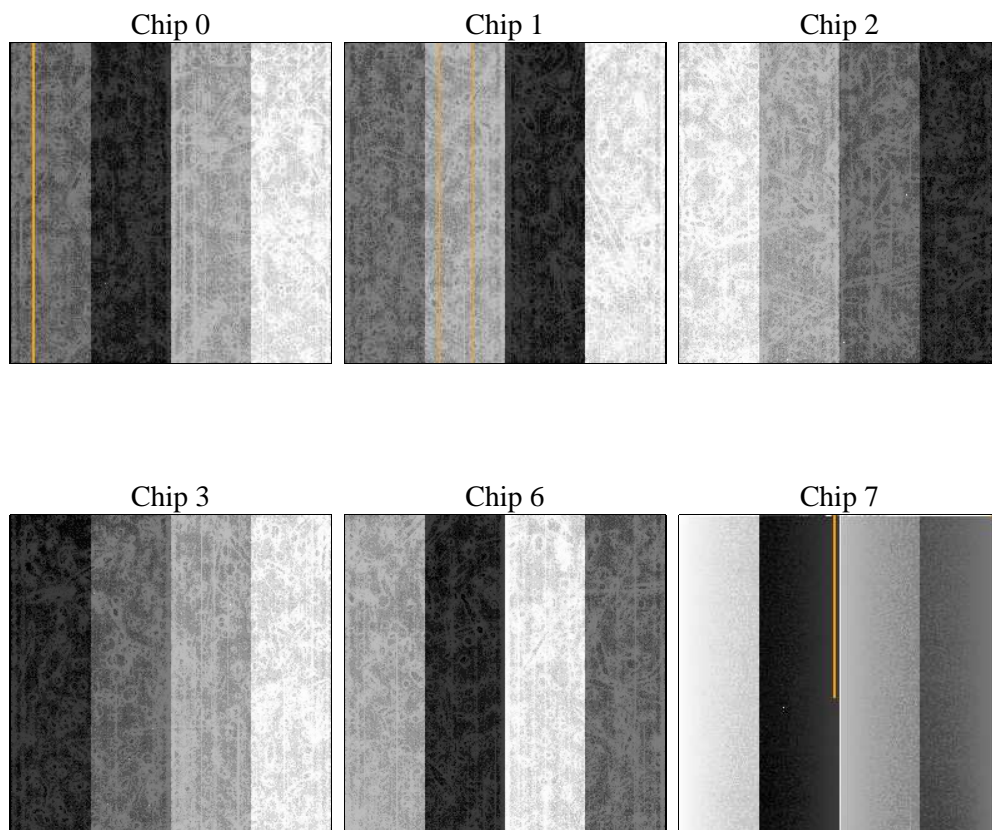
2 OBI

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	6003.1999776363	Sum of GTIs [s]
caldsver	4.5.6	 	ontime0	5620.7649336159	Sum of GTIs [s]
date	2013-03-08T21:10:30	Date and time of file creation	ontime1	5824.9465709925	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	5419.8246451616	Sum of GTIs [s]
			ontime3	5646.6929452419	Sum of GTIs [s]
			ontime6	5996.7180170417	Sum of GTIs [s]
			ontime7	6003.1999776363	Sum of GTIs [s]
			l1events	1083281	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	171967	174757	171243	177202	195734	192378	grade 0 events	27168	23795	25700	27578	20082	33924
rejected events	62374	60440	64141	64219	73305	39109		15%	13%	15%	15%	10%	17%
rejected %	36%	34%	37%	36%	37%	20%	grade 1 events	258	235	263	230	254	128
								0%	0%	0%	0%	0%	0%
							grade 2 events	55475	62548	55818	59197	72350	29893
								32%	35%	32%	33%	36%	15%
							grade 3 events	2980	2686	2614	2650	2238	18353
								1%	1%	1%	1%	1%	9%
							grade 4 events	2972	2540	2576	2776	2152	14792
								1%	1%	1%	1%	1%	7%
							grade 5 events	2196	2138	2193	2413	2372	5933
								1%	1%	1%	1%	1%	3%
							grade 6 events	20998	22748	20394	20782	25607	56307
								12%	13%	11%	11%	13%	29%
							grade 7 events	59920	58067	61685	61576	70679	33048
								34%	33%	36%	34%	36%	17%

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	1.979556360534048
[deg] Pointing Dec	0	31.97724496310928
[deg] Pointing Roll	0.0	199.7579754165206
[mm] SIM focus pos	-0.782348	-0.7809083437167272
[mm] SIM defocus	0	0.7524282956875696
[mm] SIM translation stage pos	-233.592463	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	244902984.429479	244902983.40448
Observation start date	2005-10-05T12:36:24	2005-10-05T12:36:23
[s] Observation end time (MET)	244920206.480272	244920205.45527
Observation end date	2005-10-05T17:23:26	2005-10-05T17:23:25
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)	2013.03.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.0031999776363

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.