

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59412 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 8 2013

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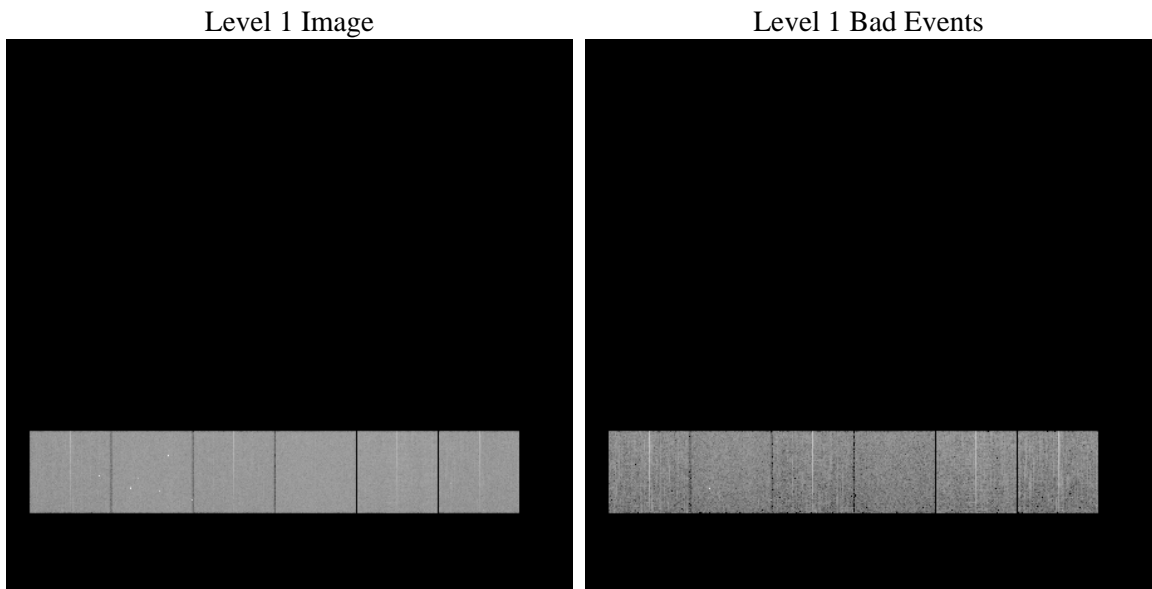
1 Front

seq_num	 	Sequence number
obs_id	59412	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	344.82296666008	Nominal RA [deg]
dec_nom	-5.017203698361	Nominal Dec [deg]
roll_nom	290.13482931871	Nominal Roll [deg]
revision	4	Processing version of data
ontime	6338.8735132813	Sum of GTIs [s]
livetime	6258.6068800448	Livetime [s]
ontime4	5931.0501639843	Sum of GTIs [s]
ontime5	6338.832473278	Sum of GTIs [s]
ontime6	6141.0914859176	Sum of GTIs [s]
ontime7	6338.8735132813	Sum of GTIs [s]
ontime8	6325.7454520166	Sum of GTIs [s]
ontime9	6141.2147350013	Sum of GTIs [s]
l2events	806485	Number of level 2 events

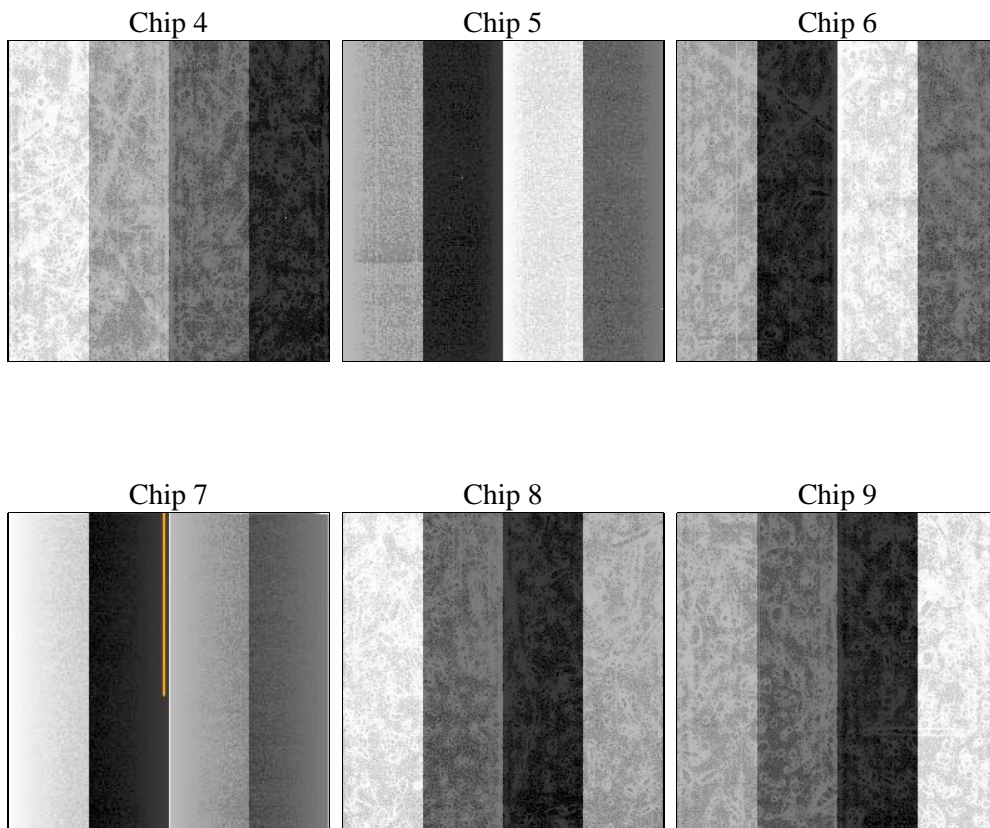
2 OBI

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	6338.8735132813	Sum of GTIs [s]
caldsver	4.5.6	 	ontime4	5931.0501639843	Sum of GTIs [s]
date	2013-03-08T21:10:30	Date and time of file creation	ontime5	6338.832473278	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	6141.0914859176	Sum of GTIs [s]
			ontime7	6338.8735132813	Sum of GTIs [s]
			ontime8	6325.7454520166	Sum of GTIs [s]
			ontime9	6141.2147350013	Sum of GTIs [s]
			l1events	1140782	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	175643	193507	185659	198713	204404	182856	grade 0 events	74123	32201	75828	37633	81118	74586
rejected events	47605	45324	44534	40040	52901	47112		42%	16%	40%	18%	39%	40%
rejected %	27%	23%	23%	20%	25%	25%	grade 1 events	575	194	359	136	437	467
								0%	0%	0%	0%	0%	0%
							grade 2 events	20488	52786	24654	34441	26977	23354
								11%	27%	13%	17%	13%	12%
							grade 3 events	8666	8413	8933	15802	9829	8739
								4%	4%	4%	7%	4%	4%
							grade 4 events	8449	8234	8986	15690	10050	8678
								4%	4%	4%	7%	4%	4%
							grade 5 events	2629	7284	2863	7021	3683	3029
								1%	3%	1%	3%	1%	1%
							grade 6 events	16312	46549	22724	55107	23529	20387
								9%	24%	12%	27%	11%	11%
							grade 7 events	44401	37846	41312	32883	48781	43616
								25%	19%	22%	16%	23%	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	344.8229666600804
[deg] Pointing Dec	0	-5.017203698360995
[deg] Pointing Roll	0.0	290.1348293187123
[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)	244946253.781471	244946252.75647
Observation start date	2005-10-06T00:37:34	2005-10-06T00:37:32
[s] Observation end time (MET)	244965624.232362	244965623.20737
Observation end date	2005-10-06T06:00:24	2005-10-06T06:00:23
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	6.3388735132813

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.