

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59442 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 7 2013

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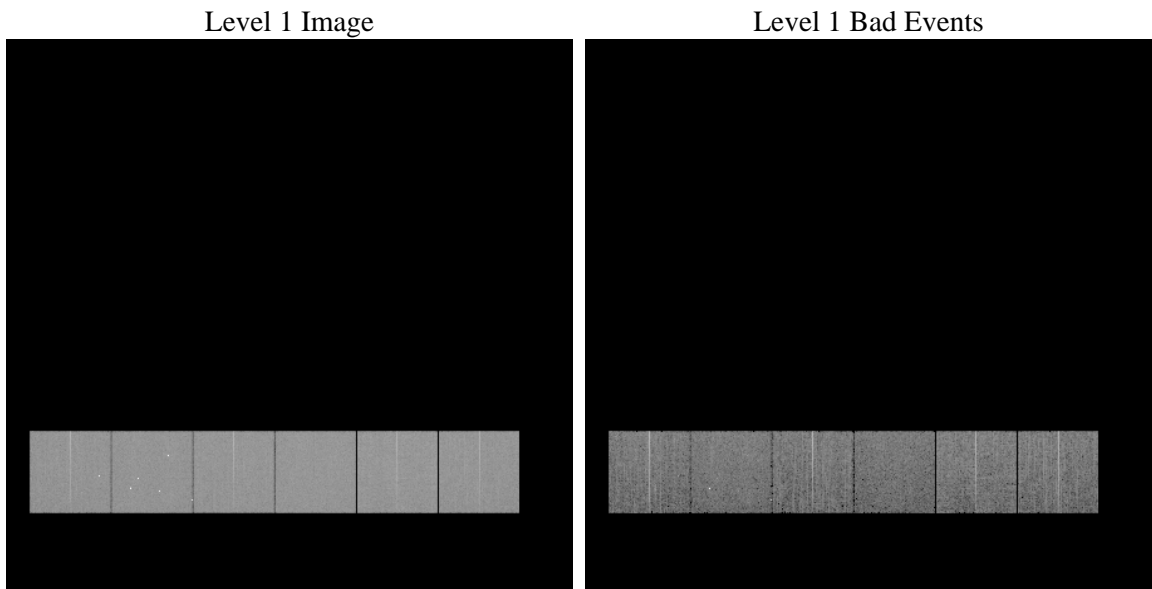
1 Front

seq_num	 	Sequence number
obs_id	59442	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	346.68231840146	Nominal RA [deg]
dec_nom	25.176250521546	Nominal Dec [deg]
roll_nom	203.25640491535	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7503.1215426326	Sum of GTIs [s]
livetime	7408.1124998224	Livetime [s]
ontime4	7502.9984226227	Sum of GTIs [s]
ontime5	7503.0805026293	Sum of GTIs [s]
ontime6	7503.039462626	Sum of GTIs [s]
ontime7	7503.1215426326	Sum of GTIs [s]
ontime8	7502.9573826492	Sum of GTIs [s]
ontime9	7503.1625826359	Sum of GTIs [s]
l2events	967171	Number of level 2 events

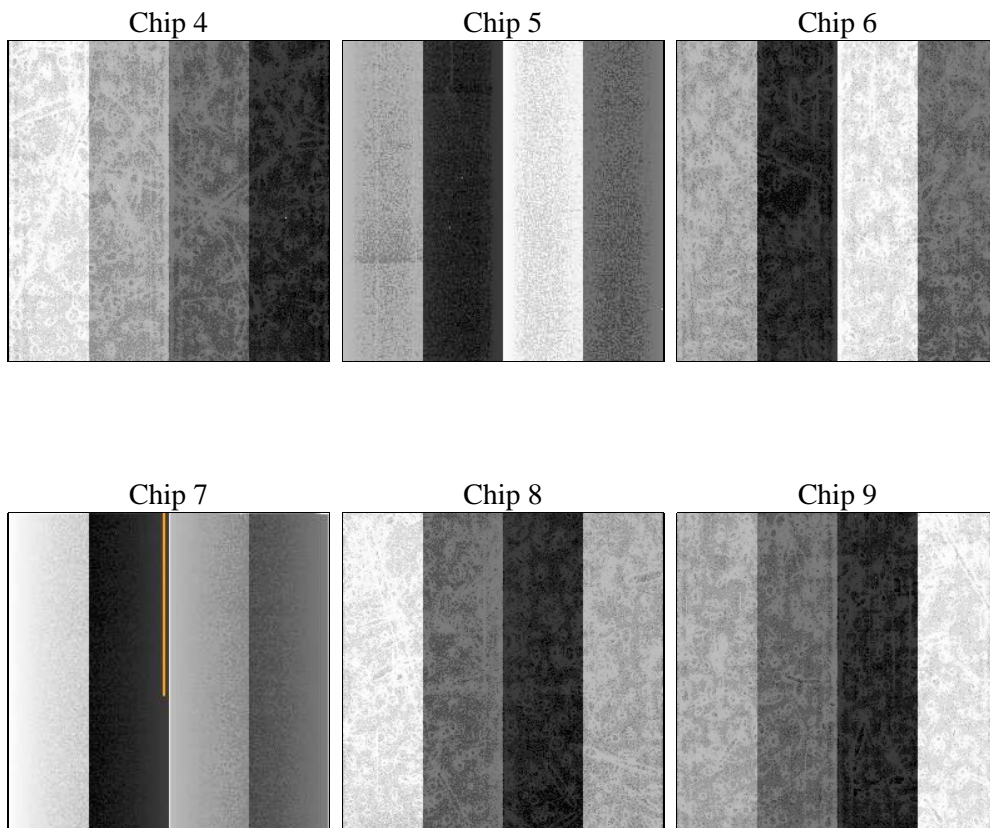
2 OBI

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	7503.1215426326	Sum of GTIs [s]
caldsver	4.5.6	 	ontime4	7502.9984226227	Sum of GTIs [s]
date	2013-03-08T01:52:31	Date and time of file creation	ontime5	7503.0805026293	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	7503.039462626	Sum of GTIs [s]
			ontime7	7503.1215426326	Sum of GTIs [s]
			ontime8	7502.9573826492	Sum of GTIs [s]
			ontime9	7503.1625826359	Sum of GTIs [s]
			l1events	1348998	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	215508	224014	225520	228031	235739	220186	grade 0 events	96424	37837	95007	43692	98028	93000
rejected events	53204	51694	52082	43561	56211	53324		44%	16%	42%	19%	41%	42%
rejected %	24%	23%	23%	19%	23%	24%	grade 1 events	620	314	437	133	473	494
								0%	0%	0%	0%	0%	0%
							grade 2 events	25158	64341	30428	41151	31890	28583
								11%	28%	13%	18%	13%	12%
							grade 3 events	10999	9103	10873	18382	11932	10975
								5%	4%	4%	8%	5%	4%
							grade 4 events	10755	8843	10893	18165	11861	10753
								4%	3%	4%	7%	5%	4%
							grade 5 events	3037	7482	3305	7328	3842	3451
								1%	3%	1%	3%	1%	1%
							grade 6 events	20751	54052	28054	65063	27683	25309
								9%	24%	12%	28%	11%	11%
							grade 7 events	47764	42042	46523	34117	50030	47621
								22%	18%	20%	14%	21%	21%

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	346.6823184014619	Alternating exposures requested	N	N
[deg] Pointing Dec	0	25.17625052154597	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	203.2564049153483			
[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)	243572079.268202	243572078.24326			
Observation start date	2005-09-20T02:54:39	2005-09-20T02:54:38			
[s] Observation end time (MET)	243595162.269318	243595161.24432			
Observation end date	2005-09-20T09:19:22	2005-09-20T09:19:21			
Read mode	TIMED	TIMED			

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	7.5031215426326

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.