

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59430 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 7 2013

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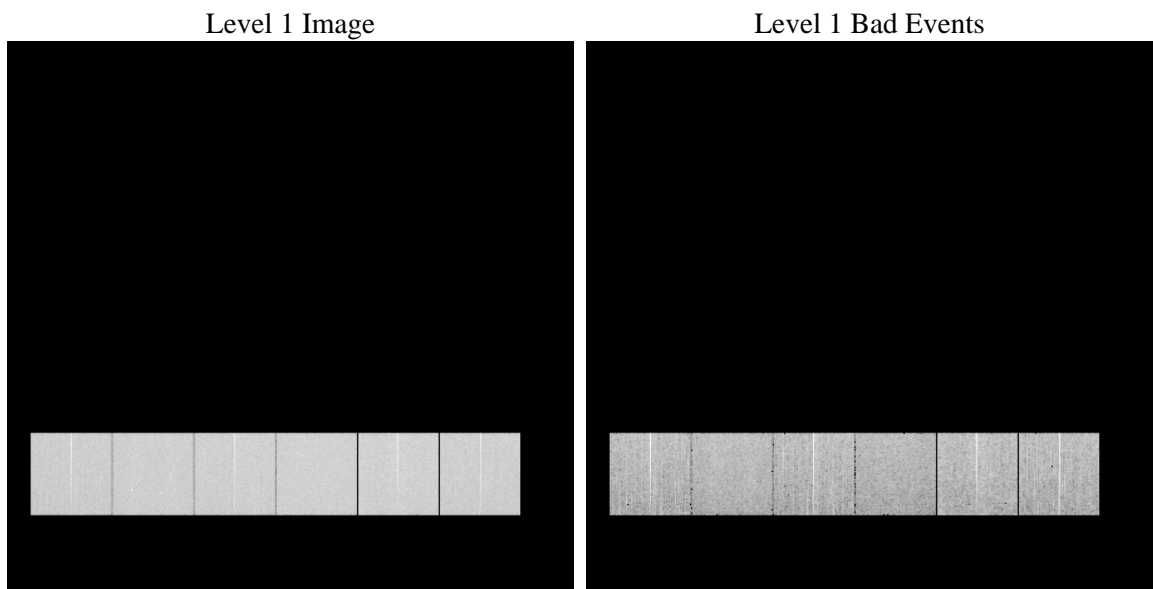
1 Front

seq_num	 	Sequence number
obs_id	59430	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	352.98218495199	Nominal RA [deg]
dec_nom	29.475940644264	Nominal Dec [deg]
roll_nom	204.28869765838	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7705.5999712944	Sum of GTIs [s]
livetime	7608.0270247026	Livetime [s]
ontime4	7284.2725918889	Sum of GTIs [s]
ontime5	7705.5999712944	Sum of GTIs [s]
ontime6	7699.1180505455	Sum of GTIs [s]
ontime7	7705.5999712944	Sum of GTIs [s]
ontime8	7705.5999712944	Sum of GTIs [s]
ontime9	7566.2379778028	Sum of GTIs [s]
l2events	984359	Number of level 2 events

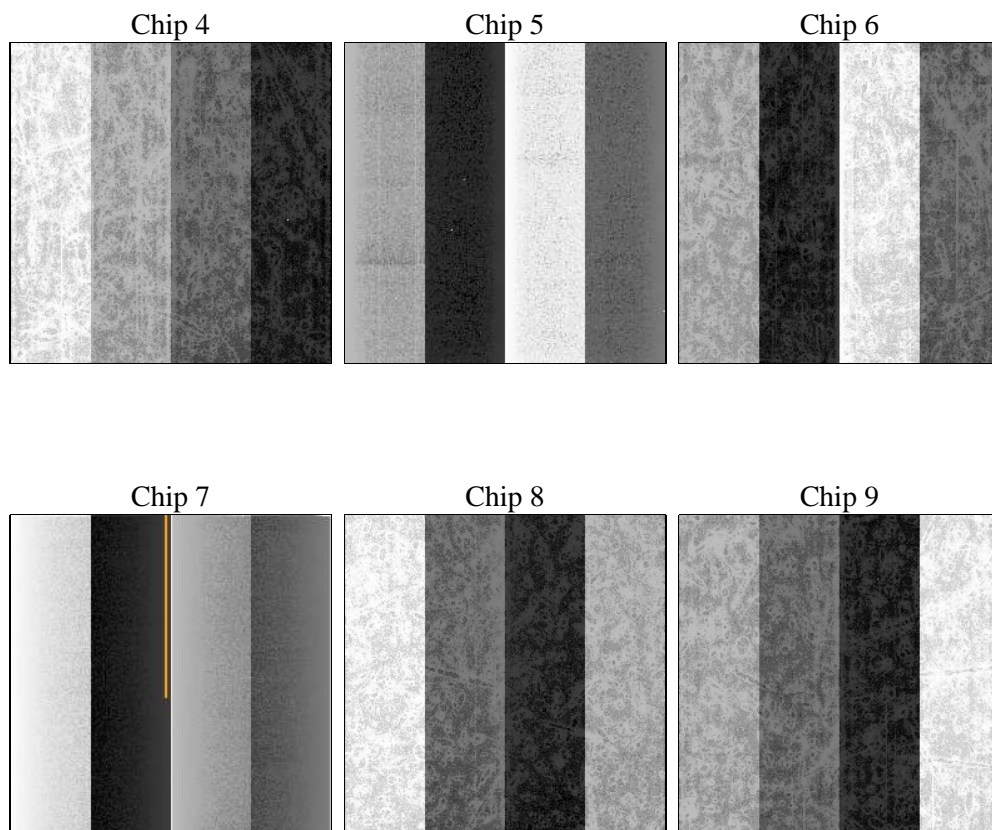
2 OBI

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	7705.5999712944	Sum of GTIs [s]
caldsver	4.5.6	 	ontime4	7284.2725918889	Sum of GTIs [s]
date	2013-03-08T01:48:23	Date and time of file creation	ontime5	7705.5999712944	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	7699.1180505455	Sum of GTIs [s]
			ontime7	7705.5999712944	Sum of GTIs [s]
			ontime8	7705.5999712944	Sum of GTIs [s]
			ontime9	7566.2379778028	Sum of GTIs [s]
			l1events	1383043	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	213846	226020	233723	238968	245559	224927	grade 0 events	91518	30790	95783	44554	100245	92819
rejected events	58364	54268	57207	47037	61046	57589		42%	13%	40%	18%	40%	41%
rejected %	27%	24%	24%	19%	24%	25%	grade 1 events	717	160	437	152	501	570
								0%	0%	0%	0%	0%	0%
							grade 2 events	23446	66749	30831	42265	32153	28009
								10%	29%	13%	17%	13%	12%
							grade 3 events	10425	8602	10814	18690	12173	10680
								4%	3%	4%	7%	4%	4%
							grade 4 events	10462	8341	10921	18752	12120	10814
								4%	3%	4%	7%	4%	4%
							grade 5 events	3194	7690	3507	7936	4137	3724
								1%	3%	1%	3%	1%	1%
							grade 6 events	20007	57712	28581	68165	28229	25434
								9%	25%	12%	28%	11%	11%
							grade 7 events	54077	45976	52849	38454	56001	52877
								25%	20%	22%	16%	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	352.9821849519885
[deg] Pointing Dec	0	29.47594064426417
[deg] Pointing Roll	0.0	204.2886976583832
[mm] SIM focus pos	-0.684267	-1.038866356238299
[mm] SIM defocus	0	0.4944702831659975
[mm] SIM translation stage pos	-190.132523	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	244269048.550316	244269047.52531
Observation start date	2005-09-28T04:30:49	2005-09-28T04:30:47
[s] Observation end time (MET)	244281203.000875	244281201.97587
Observation end date	2005-09-28T07:53:23	2005-09-28T07:53:21
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	7.7055999712944

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.