V&V Reference Report
L2 ASCDS Version : 8.5.1.1

Observation 59385 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 7 2013

Contents

1 Front

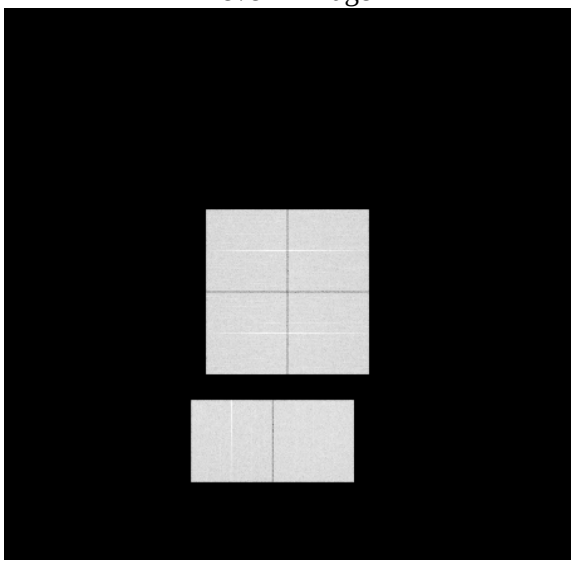
seq_num		Sequence number
obs_id	59385	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	15.954713819796	Nominal RA [deg]
dec_nom	36.98211438869	Nominal Dec [deg]
roll_nom	190.5207948671	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7801.5999709368	Sum of GTIs [s]
livetime	7702.8114145452	Livetime [s]
ontime0	7801.5999709368	Sum of GTIs [s]
ontime1	7801.5999709368	Sum of GTIs [s]
ontime2	7801.5999709368	Sum of GTIs [s]
ontime3	7801.5999709368	Sum of GTIs [s]
ontime6	7801.5999709368	Sum of GTIs [s]
ontime7	7801.5999709368	Sum of GTIs [s]
l2events	1001856	Number of level 2 events

2 OBI

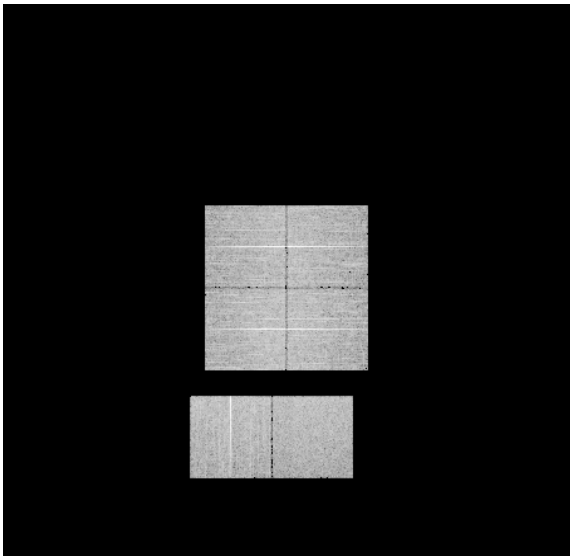
2.1 OBI

2.1.1 Images

Level 1 Image

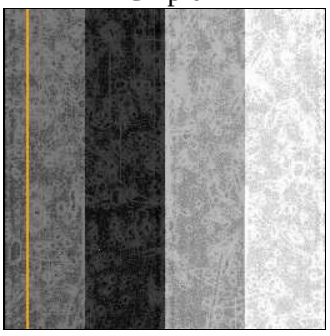


Level 1 Bad Events

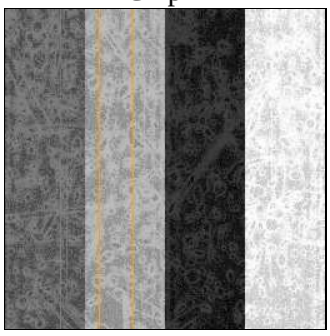


2.1.2 Bias

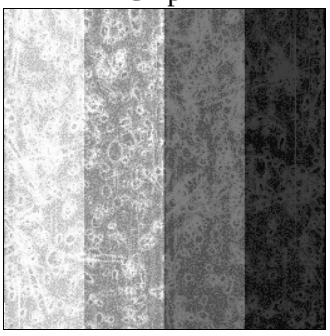
Chip 0



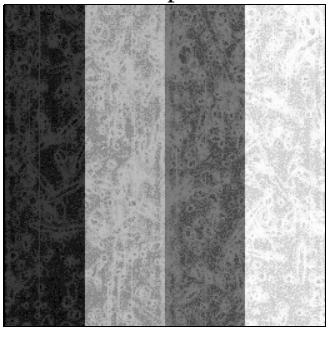
Chip 1



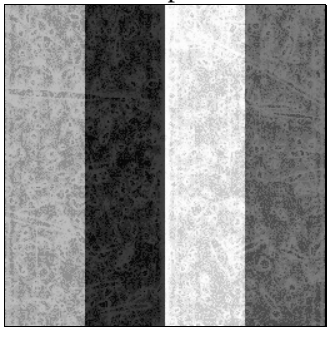
Chip 2



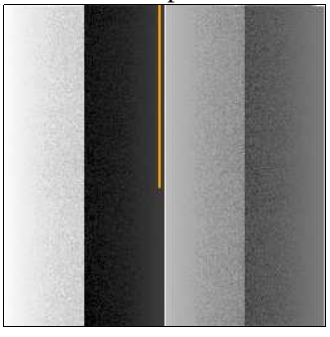
Chip 3



Chip 6



Chip 7



2.1.3 Parameters

obi_num	0	Obi number
ascdsver	8.5.1.1	Processing system revision
caldbver	4.5.6	
date	2013-03-08T00:50:10	Date and time of file creation
revision	4	Processing version of data

sched_exp_time	0.0	[s] Scheduled observation exposure time
ontime	7801.5999709368	Sum of GTIs [s]
ontime0	7801.5999709368	Sum of GTIs [s]
ontime1	7801.5999709368	Sum of GTIs [s]
ontime2	7801.5999709368	Sum of GTIs [s]
ontime3	7801.5999709368	Sum of GTIs [s]
ontime6	7801.5999709368	Sum of GTIs [s]
ontime7	7801.5999709368	Sum of GTIs [s]
l1events	1393712	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	224799	223984	233151	229971	237163	244644
rejected events	55100	54912	62046	58828	58867	49649
rejected %	24%	24%	26%	25%	24%	20%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	93054	91902	95358	96033	96428	45210
	41%	41%	40%	41%	40%	18%
grade 1 events	526	453	611	616	504	154
	0%	0%	0%	0%	0%	0%
grade 2 events	29627	30346	29054	29194	31185	42647
	13%	13%	12%	12%	13%	17%
grade 3 events	11156	10927	11308	11187	11286	19349
	4%	4%	4%	4%	4%	7%
grade 4 events	11128	10943	11387	11197	11113	19494
	4%	4%	4%	4%	4%	7%
grade 5 events	3352	3545	3177	3717	3755	8665
	1%	1%	1%	1%	1%	3%
grade 6 events	24825	25010	24087	23606	28354	68367
	11%	11%	10%	10%	11%	27%
grade 7 events	51131	50858	58169	54421	54538	40758
	22%	22%	24%	23%	22%	16%

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	15.95471381979587
[deg] Pointing Dec	0	36.98211438868953
[deg] Pointing Roll	0.0	190.520794867105
[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)	245816361.971525	245816360.94653
Observation start date	2005-10-16T02:19:22	2005-10-16T02:19:20
[s] Observation end time (MET)	245826964.572013	245826963.54702
Observation end date	2005-10-16T05:16:05	2005-10-16T05:16:03
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	7.8015999709368

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.