

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59441 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 8 2013

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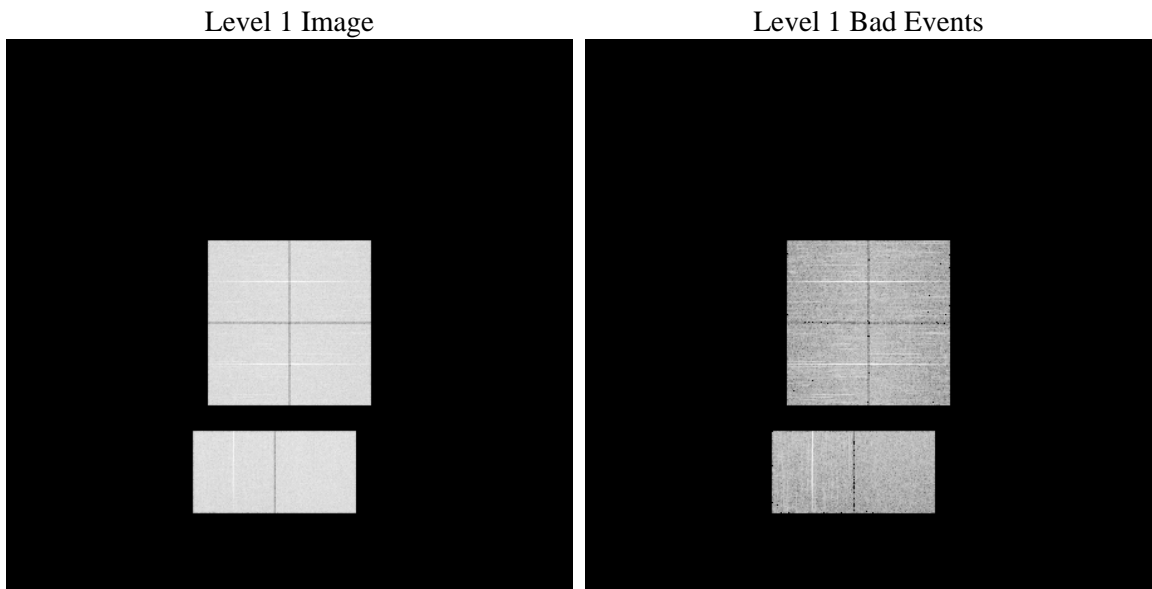
1 Front

seq_num	 	Sequence number
obs_id	59441	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	17.169372683936	Nominal RA [deg]
dec_nom	22.103599107362	Nominal Dec [deg]
roll_nom	139.87811187082	Nominal Roll [deg]
revision	4	Processing version of data
ontime	7802.755630523	Sum of GTIs [s]
livetime	7703.9524404739	Livetime [s]
ontime0	7802.7966506183	Sum of GTIs [s]
ontime1	7804.7999709249	Sum of GTIs [s]
ontime2	7804.7999709249	Sum of GTIs [s]
ontime3	7802.7145706117	Sum of GTIs [s]
ontime6	7804.7999709249	Sum of GTIs [s]
ontime7	7802.755630523	Sum of GTIs [s]
l2events	1012368	Number of level 2 events

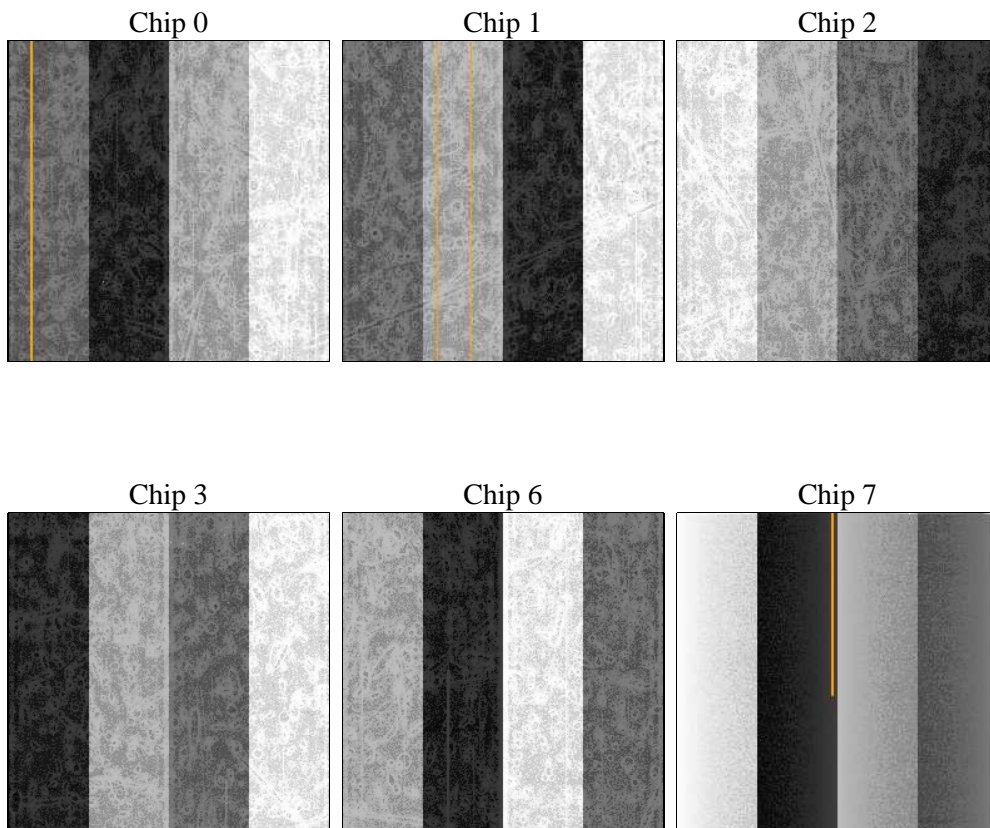
2 OBI

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	7802.755630523	Sum of GTIs [s]
caldsver	4.5.6	 	ontime0	7802.7966506183	Sum of GTIs [s]
date	2013-03-08T01:52:53	Date and time of file creation	ontime1	7804.7999709249	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	7804.7999709249	Sum of GTIs [s]
			ontime3	7802.7145706117	Sum of GTIs [s]
			ontime6	7804.7999709249	Sum of GTIs [s]
			ontime7	7802.755630523	Sum of GTIs [s]
			l1events	1360832	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	219702	220306	226887	223927	232170	237840	grade 0 events	94948	94478	97073	97477	97717	45716
rejected events	47669	47679	53400	50211	51933	44656		43%	42%	42%	43%	42%	19%
rejected %	21%	21%	23%	22%	22%	18%	grade 1 events	505	453	516	528	447	165
								0%	0%	0%	0%	0%	0%
							grade 2 events	30193	30966	29196	29727	31333	42896
								13%	14%	12%	13%	13%	18%
							grade 3 events	11166	10942	11454	11330	11265	19177
								5%	4%	5%	5%	4%	8%
							grade 4 events	11039	10971	11256	11354	11321	19030
								5%	4%	4%	5%	4%	8%
							grade 5 events	3162	3153	2983	3300	3337	7905
								1%	1%	1%	1%	1%	3%
							grade 6 events	24687	25270	24508	23896	28601	66365
								11%	11%	10%	10%	12%	27%
							grade 7 events	44002	44073	49901	46315	48149	36586
								20%	20%	21%	20%	20%	15%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-012367	ACIS-012367	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	17.16937268393605	Alternating exposures requested	N	N
[deg] Pointing Dec	0	22.10359910736199	[s] Primary exposure time	3.2	3.2
[deg] Pointing Roll	0.0	139.8781118708199			
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.7524282956875696			
[mm] SIM translation stage pos	-233.592463	250.4635187648994			
[mm] SIM translation stage offset	0	-0.007540371344731511			
[s] Observation start time (MET)	243763186.427047	243763185.40205			
Observation start date	2005-09-22T07:59:46	2005-09-22T07:59:45			
[s] Observation end time (MET)	243779576.177801	243779575.1528			
Observation end date	2005-09-22T12:32:56	2005-09-22T12:32:55			
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	7.802755630523

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.