

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59397 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Mar 8 2013

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Star Slots	6
2.4	FID Slots	6
A	Summary	7
A.1	Status	7
A.2	Comments	7

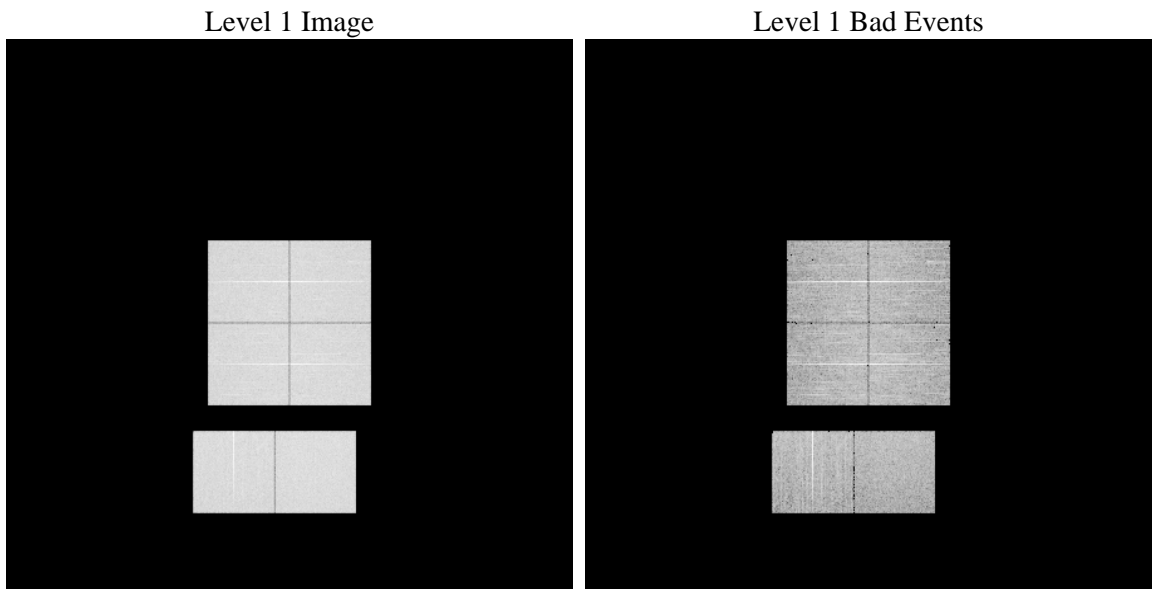
1 Front

seq_num	 	Sequence number
obs_id	59397	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	15.97103616659	Nominal RA [deg]
dec_nom	35.183905239854	Nominal Dec [deg]
roll_nom	181.33653599376	Nominal Roll [deg]
revision	4	Processing version of data
ontime	8278.3999691606	Sum of GTIs [s]
livetime	8173.573884097	Livetime [s]
ontime0	8278.3999691606	Sum of GTIs [s]
ontime1	8278.3999691606	Sum of GTIs [s]
ontime2	8278.3999691606	Sum of GTIs [s]
ontime3	8278.3999691606	Sum of GTIs [s]
ontime6	8278.3599718511	Sum of GTIs [s]
ontime7	8278.3999691606	Sum of GTIs [s]
l2events	1057435	Number of level 2 events

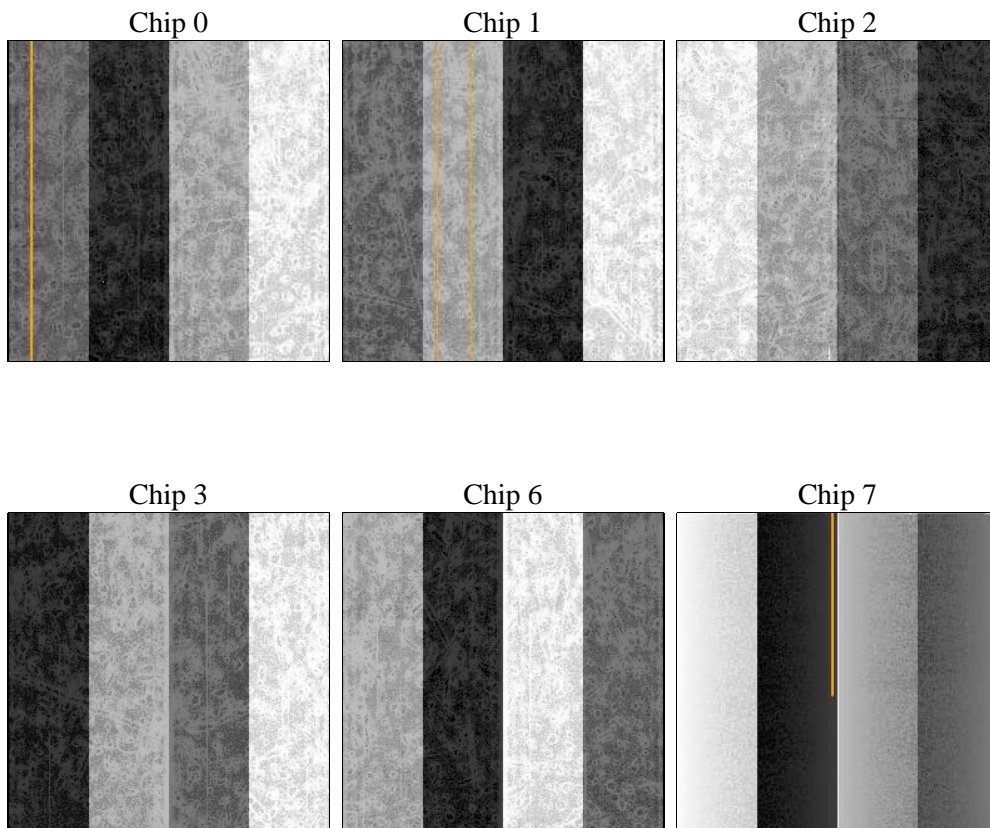
2 OBI

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	8278.3999691606	Sum of GTIs [s]
caldsver	4.5.6	 	ontime0	8278.3999691606	Sum of GTIs [s]
date	2013-03-08T21:07:25	Date and time of file creation	ontime1	8278.3999691606	Sum of GTIs [s]
revision	4	Processing version of data	ontime2	8278.3999691606	Sum of GTIs [s]
			ontime3	8278.3999691606	Sum of GTIs [s]
			ontime6	8278.3599718511	Sum of GTIs [s]
			ontime7	8278.3999691606	Sum of GTIs [s]
			l1events	1454391	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	235212	234719	238831	243568	247200	254861	grade 0 events	98263	97578	100966	101812	101930	47452
rejected events	56346	55407	58395	61765	58690	50701		41%	41%	42%	41%	41%	18%
rejected %	23%	23%	24%	25%	23%	19%	grade 1 events	603	510	618	614	511	170
								0%	0%	0%	0%	0%	0%
							grade 2 events	31443	31979	30252	31139	32652	44548
								13%	13%	12%	12%	13%	17%
							grade 3 events	11759	11812	11809	12051	11927	20031
								4%	5%	4%	4%	4%	7%
							grade 4 events	11506	11336	11833	11893	11940	20036
								4%	4%	4%	4%	4%	7%
							grade 5 events	3394	3529	3356	3907	3758	8937
								1%	1%	1%	1%	1%	3%
							grade 6 events	25958	26679	25638	24980	30129	72172
								11%	11%	10%	10%	12%	28%
							grade 7 events	52286	51296	54359	57172	54353	41515
								22%	21%	22%	23%	21%	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	15.97103616658967
[deg] Pointing Dec	0	35.18390523985432
[deg] Pointing Roll	0.0	181.3365359937625
[mm] SIM focus pos	-0.782348	-0.6828225247311905
[mm] SIM defocus	0	0.8505141146731063
[mm] SIM translation stage pos	-233.592463	250.4635187648994
[mm] SIM translation stage offset	0	-0.007540371344731511
[s] Observation start time (MET)	245397528.502248	245397527.47724
Observation start date	2005-10-11T05:58:49	2005-10-11T05:58:47
[s] Observation end time (MET)	245421115.803337	245421114.77833
Observation end date	2005-10-11T12:31:56	2005-10-11T12:31:54
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)	2013.03.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.2783999691606

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.