

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 62693 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Mar 31 2010

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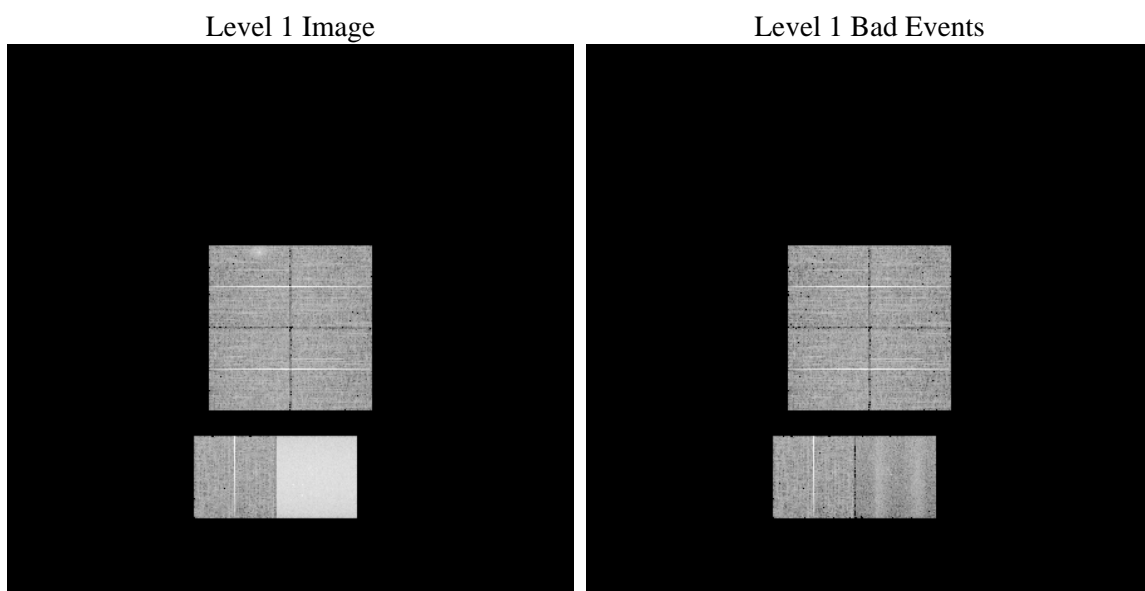
1 Front

seq_num	 	Sequence number
obs_id	62693	Observation id
title	ACIS-012367 diagnostics; background	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
dec_targ	0.0	Observer's specified target Dec
ra_nom	137.76910346518	Nominal RA
dec_nom	-43.099330201368	Nominal Dec
roll_nom	173.02377841573	Nominal Roll
revision	3	Processing version of data
ontime	6826.1043045744	Sum of GTIs [s]
livetime	6742.2551675812	Livetime [s]
ontime0	5883.8921985626	Sum of GTIs [s]
ontime1	5880.5100886375	Sum of GTIs [s]
ontime2	5870.4459286332	Sum of GTIs [s]
ontime3	5883.7690486386	Sum of GTIs [s]
ontime6	5923.8203789294	Sum of GTIs [s]
ontime7	6826.1043045744	Sum of GTIs [s]
l2events	296129	Number of level 2 events

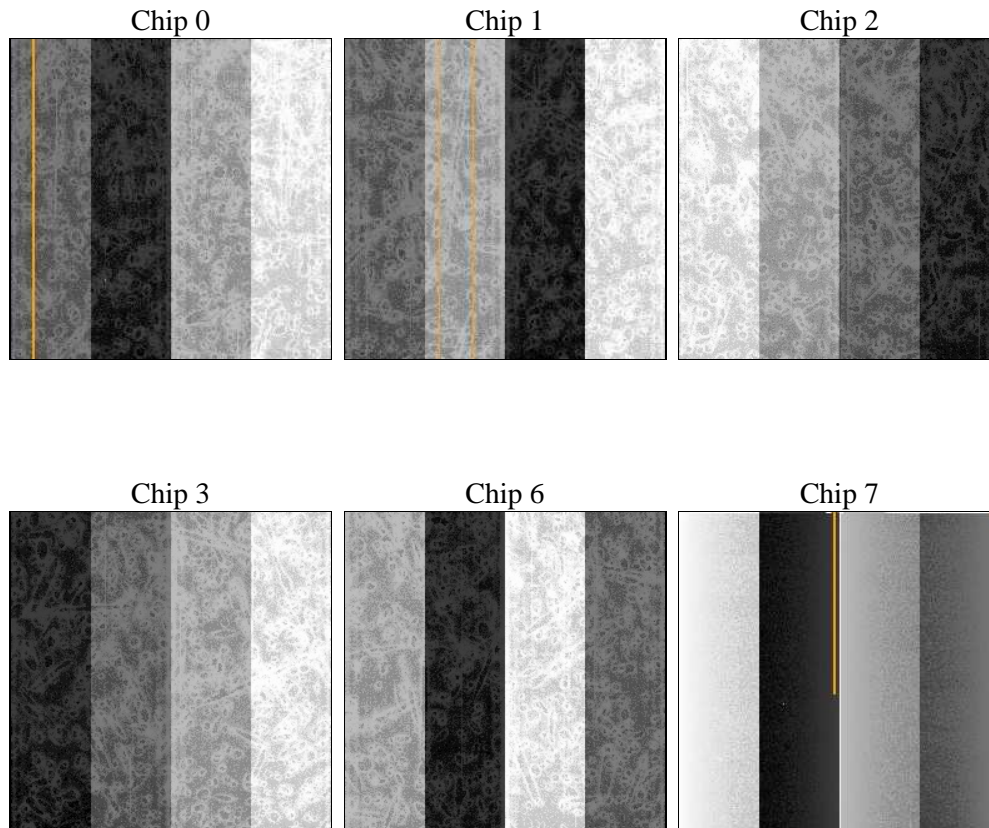
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number		
ascdsver	8.2.1	ASCDS version number	sched_exp_time	0.0
caldbver	4.1.5	 		Scheduled observation exposure time
date	2010-03-31T21:30:29	Date and time of file creation	ontime	6826.1043045744
revision	3	Processing version of data	ontime0	5883.8921985626
			ontime1	5880.5100886375
			ontime2	5870.4459286332
			ontime3	5883.7690486386
			ontime6	5923.8203789294
			ontime7	6826.1043045744
			l1events	597268
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				Sum of GTIs [s]
				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	55739	54405	59121	55979	57010	315014	grade 0 events	3569	2096	2225	2368	3990	39376
rejected events	49576	49833	54803	51490	50514	39013		6%	3%	3%	4%	6%	12%
rejected %	88%	91%	92%	91%	88%	12%	grade 1 events	37	29	23	19	30	81
								0%	0%	0%	0%	0%	0%
							grade 2 events	963	813	749	772	908	49520
								1%	1%	1%	1%	1%	15%
							grade 3 events	545	555	467	459	514	27841
								0%	1%	0%	0%	0%	8%
							grade 4 events	528	539	446	473	536	25092
								0%	0%	0%	0%	0%	7%
							grade 5 events	801	896	785	810	867	4918
								1%	1%	1%	1%	1%	1%
							grade 6 events	708	720	597	597	729	139768
								1%	1%	1%	1%	1%	44%
							grade 7 events	48588	48757	53829	50481	49436	28418
								87%	89%	91%	90%	86%	9%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-012367	ACIS-012367	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	OVERRIDE	OVERRIDE
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	SECONDARY	SECONDARY	Subarray requested	NONE	NONE
Pointing RA	0	137.7691034651767	Alternating exposures requested	N	N
Pointing Dec	0	-43.09933020136811	Primary exposure time	3.3	3.3
Pointing Roll	0.0	173.0237784157306			
SIM focus pos (mm)	0.255451383487682	0.255451383487682			
SIM defocus (mm)	1.037799581826115	1.037799581826115			
SIM translation stage pos (mm)	-190.1325231039672	-190.1325231039672			
SIM translation stage offset (mm)	-43.45993998746459	-43.45993998746459			
Observation start time	50984327.709	50984327.709			
Observation start date	1999-08-14T02:18:48	1999-08-14T02:18:47			
Observation end time	51005449.1264873	51005449.1264873			
Observation end date	1999-08-14T08:10:49	1999-08-14T08:10:49			
Read mode	TIMED	TIMED			

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

V&V Scientist	Joy Nichols
V&V Date (YYYY-MM-DD)	2010.08.16
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.8261043045744

A.2 Comments

Bright spot visible on ACIS-0. This observation was taken during the Bright Star Hold logic test. The aquisition stars were deliberately lost during the observation.

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The focal plane temperature is warmer than -100C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present. The ACIS CTI correction has not been calibrated at this temperature because it was early in the mission and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However, a T_GAIN correction has been applied to the BI chip (ACIS-7) data included here.