

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 62293 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Jan 25 2013

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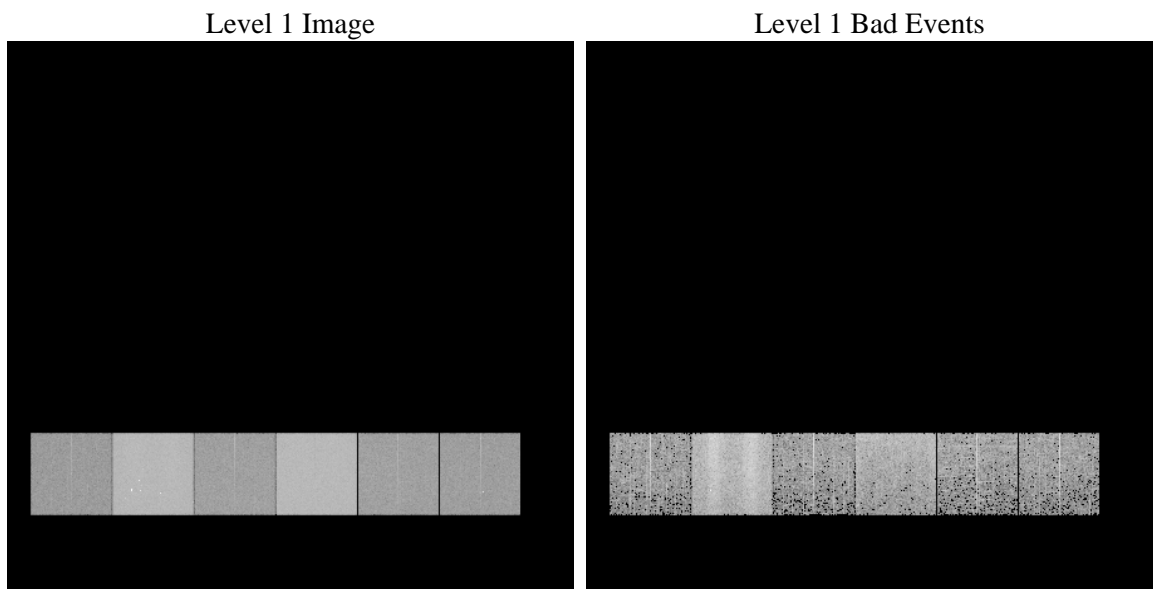
1 Front

seq_num	 	Sequence number
obs_id	62293	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	85.95367806483	Nominal RA [deg]
dec_nom	-68.37308503274	Nominal Dec [deg]
roll_nom	19.808007664573	Nominal Roll [deg]
revision	5	Processing version of data
ontime	2843.9953018054	Sum of GTIs [s]
livetime	2807.9829208456	Livetime [s]
ontime4	1076.3619403094	Sum of GTIs [s]
ontime5	3035.2550788671	Sum of GTIs [s]
ontime6	1210.6000415385	Sum of GTIs [s]
ontime7	2843.9953018054	Sum of GTIs [s]
ontime8	1200.9590015188	Sum of GTIs [s]
ontime9	1154.1468406022	Sum of GTIs [s]
l2events	903110	Number of level 2 events

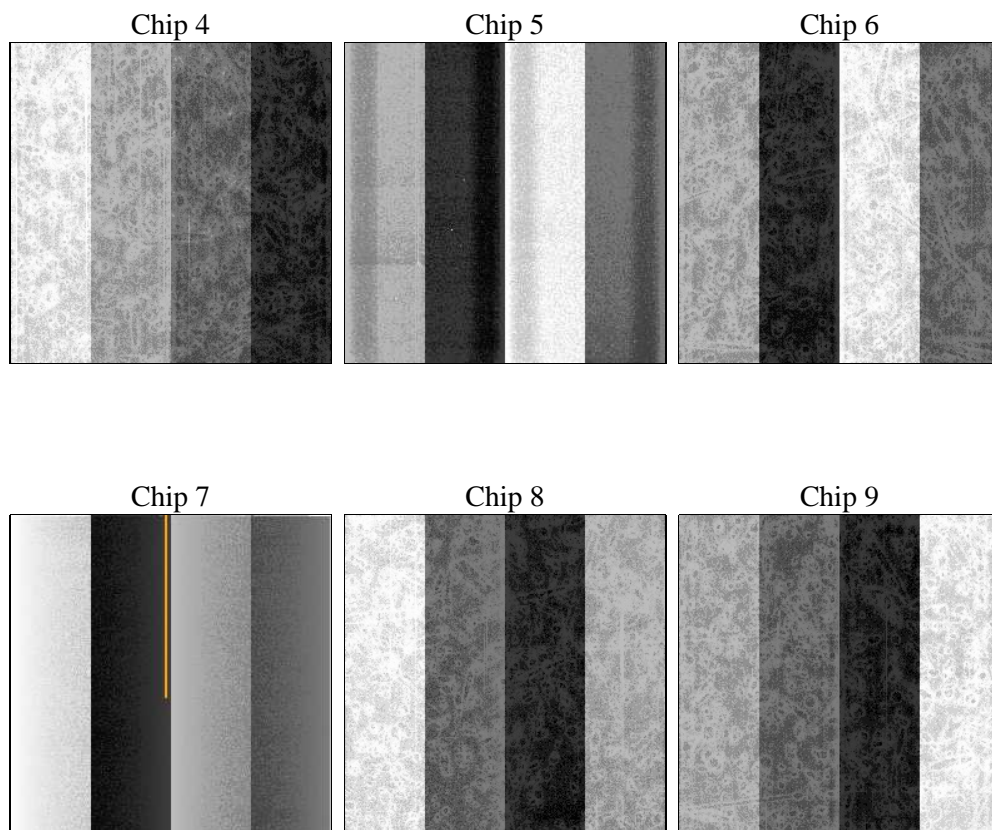
2 OBI

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	2843.9953018054	Sum of GTIs [s]
caldsver	4.5.5	 	ontime4	1076.3619403094	Sum of GTIs [s]
date	2013-01-25T22:09:54	Date and time of file creation	ontime5	3035.2550788671	Sum of GTIs [s]
revision	4	Processing version of data	ontime6	1210.6000415385	Sum of GTIs [s]
			ontime7	2843.9953018054	Sum of GTIs [s]
			ontime8	1200.9590015188	Sum of GTIs [s]
			ontime9	1154.1468406022	Sum of GTIs [s]
			l1events	1063738	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	106706	289772	126758	294797	127927	117778	grade 0 events	20583	26382	30584	49632	38266	30814
rejected events	17899	47056	18221	28136	19148	17834		19%	9%	24%	16%	29%	26%
rejected %	16%	16%	14%	9%	14%	15%	grade 1 events	96	151	134	132	182	131
								0%	0%	0%	0%	0%	0%
							grade 2 events	47730	94973	50396	74677	43149	44512
								44%	32%	39%	25%	33%	37%
							grade 3 events	2115	12488	3210	23379	3853	3041
								1%	4%	2%	7%	3%	2%
							grade 4 events	2043	10636	3131	20816	4105	3184
								1%	3%	2%	7%	3%	2%
							grade 5 events	889	4918	991	3975	1074	1026
								0%	1%	0%	1%	0%	0%
							grade 6 events	16336	98237	21216	98470	19406	18686
								15%	33%	16%	33%	15%	15%
							grade 7 events	16914	41987	17096	23716	17892	16384
								15%	14%	13%	8%	13%	13%

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	85.95367806482979
[deg] Pointing Dec	0	-68.37308503273955
[deg] Pointing Roll	0.0	19.80800766457304
[mm] SIM focus pos	-0.684267	-1.428180813131781
[mm] SIM defocus	0	0.1051558262725154
[mm] SIM translation stage pos	-190.132523	250.466033080201
[mm] SIM translation stage offset	0	-0.01005468664627074
[s] Observation start time (MET)	60305457.978792	60305457.21022
Observation start date	1999-11-29T23:30:58	1999-11-29T23:30:57
[s] Observation end time (MET)	60346759.330294	60346758.561713
Observation end date	1999-11-30T10:59:19	1999-11-30T10:59:18
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	Joy Nichols
V&V Date (YYYY-MM-DD)	2013.02.01
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	2.8439953018054

A.2 Comments

The focal plane temperature was set to a temperature of about -109.2 C during this observation and others in the interval from September 17, 1999 to January 29, 2000. The current reprocessing of the data applies no charge-transfer inefficiency (CTI) adjustment to the data because the ACIS CTI adjustment has not been calibrated at this temperature. The CTI adjustment is calibrated for data taken from January 30, 2000 to the present, when the focal-plane temperature is set to -119.7 C. However, if the observation includes one or both back-illuminated CCDs ACIS-S1 and ACIS-S3, then a time-dependent gain adjustment is applied to the data for these CCDs. The ACIS spectral response calibration is less accurate at temperatures of about -109.2 C than it is at -119.7 C.