

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60898 - L2 Version 5
Chandra X-Ray Center

L2 Processing Date : Oct 22 2012

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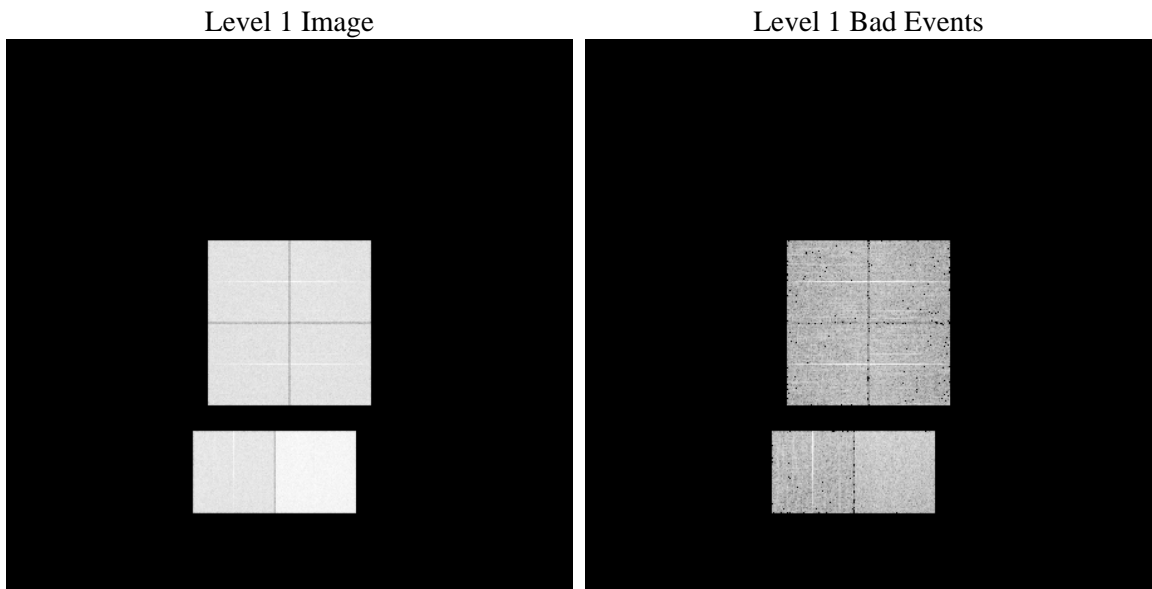
1 Front

seq_num	 	Sequence number
obs_id	60898	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	121.8758635996	Nominal RA [deg]
dec_nom	28.91927332475	Nominal Dec [deg]
roll_nom	104.71311869514	Nominal Roll [deg]
revision	5	Processing version of data
ontime	8324.9568524063	Sum of GTIs [s]
livetime	8219.5412360539	Livetime [s]
ontime0	4368.9070275128	Sum of GTIs [s]
ontime1	4449.9324896634	Sum of GTIs [s]
ontime2	4145.2777684629	Sum of GTIs [s]
ontime3	4294.3641538024	Sum of GTIs [s]
ontime6	4641.1500233412	Sum of GTIs [s]
ontime7	8324.9568524063	Sum of GTIs [s]
l2events	1268472	Number of level 2 events

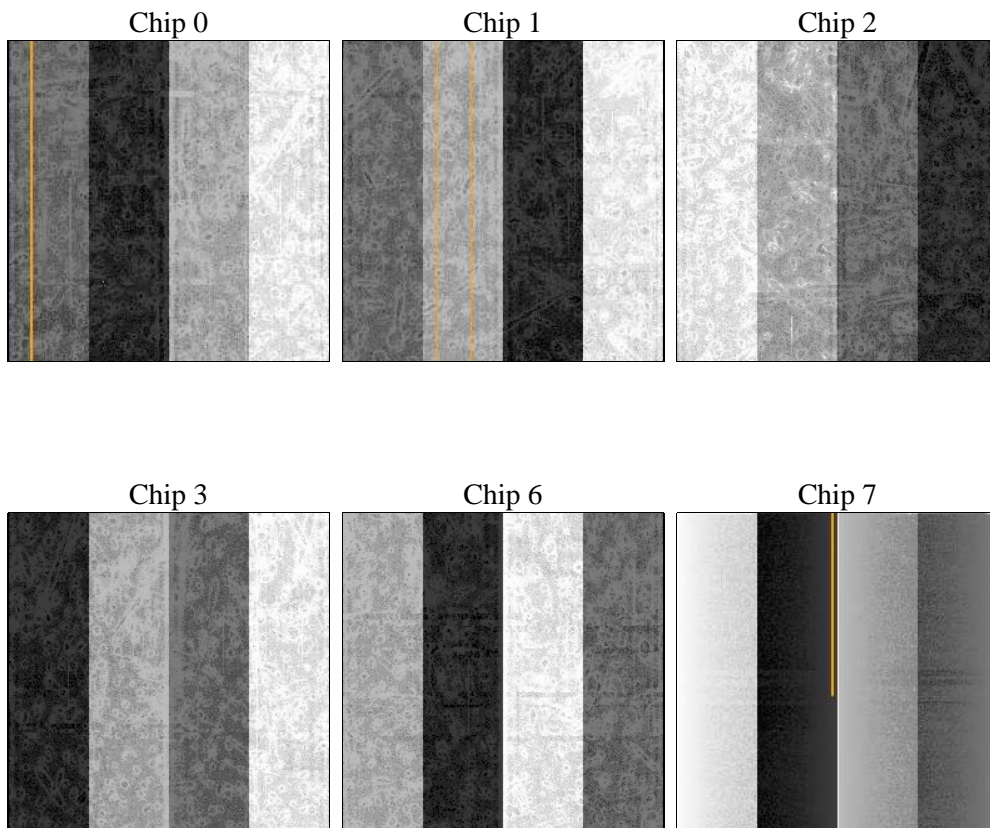
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	0.0	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	8324.9568524063	Sum of GTIs [s]
caldbver	4.5.2	 	ontime0	4368.9070275128	Sum of GTIs [s]
date	2012-10-22T13:00:17	Date and time of file creation	ontime1	4449.9324896634	Sum of GTIs [s]
revision	5	Processing version of data	ontime2	4145.2777684629	Sum of GTIs [s]
			ontime3	4294.3641538024	Sum of GTIs [s]
			ontime6	4641.1500233412	Sum of GTIs [s]
			ontime7	8324.9568524063	Sum of GTIs [s]
			l1events	1537116	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	218516	222165	212044	218906	242038	423447	grade 0 events	104467	105977	102353	106166	115236	93928
rejected events	31783	31350	32999	32629	33830	48913		47%	47%	48%	48%	47%	22%
rejected %	14%	14%	15%	14%	13%	11%	grade 1 events	549	518	639	642	510	256
								0%	0%	0%	0%	0%	0%
							grade 2 events	32995	34159	30620	31909	36071	83301
								15%	15%	14%	14%	14%	19%
							grade 3 events	12386	12099	11848	12392	13152	38218
								5%	5%	5%	5%	5%	9%
							grade 4 events	12087	12012	11791	12365	12989	37559
								5%	5%	5%	5%	5%	8%
							grade 5 events	2050	2085	1970	2055	2327	8721
								0%	0%	0%	0%	0%	2%
							grade 6 events	27402	28272	25547	25595	32895	125458
								12%	12%	12%	11%	13%	29%
							grade 7 events	26580	27043	27276	27782	28858	36006
								12%	12%	12%	12%	11%	8%

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	121.8758635995995	Alternating exposures requested	N	N
[deg] Pointing Dec	0	28.9192733247499	[s] Primary exposure time	0.000000	3.2
[deg] Pointing Roll	0.0	104.7131186951421			
[mm] SIM focus pos	-0.782348	-0.6828225247311905			
[mm] SIM defocus	0	0.8505141146731063			
[mm] SIM translation stage pos	-233.592463	250.466033080201			
[mm] SIM translation stage offset	0	-0.01005468664627074			
[s] Observation start time (MET)	157895357.447392	157895356.42267			
Observation start date	2003-01-02T11:49:17	2003-01-02T11:49:16			
[s] Observation end time (MET)	157917538.448319	157917537.4236			
Observation end date	2003-01-02T17:58:58	2003-01-02T17:58:57			
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)	2013.01.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.3249568524063

A.2 Comments

Every bias map for this observation was incomplete because of data gaps in telemetry. Bias maps for every chip were reconstructed using scaled data from a comparable bias map for another observation to fill the missing gaps. The regions affected are bounded by the chip coordinates:

CCD 0:

(1,245),(1024,245),(1024,264),(1,264)
(1,595),(1024,595),(1024,614),(1,614)
(1,845),(1024,845),(1024,864),(1,864)

CCD 1:

(1,315),(1024,315),(1024,334),(1,334)

CCD 2:

(1,415),(1024,415),(1024,424),(1,424)
(1,485),(1024,485),(1024,504),(1,504)
(1,555),(1024,555),(1024,574),(1,574)
(1,695),(1024,695),(1024,714),(1,714)

CCD 3:

(1,305),(1024,305),(1024,324),(1,324)
(1,335),(1024,335),(1024,354),(1,354)

CCD 6:

(1,295),(1024,295),(1024,314),(1,314)
(1,405),(1024,405),(1024,414),(1,414)
(1,435),(1024,435),(1024,454),(1,454)
(1,575),(1024,575),(1024,594),(1,594)
(1,645),(1024,645),(1024,664),(1,664)
(1,685),(1024,685),(1024,704),(1,704)

CCD 7:

(1,415),(1024,415),(1024,424),(1,424)
(1,475),(1024,475),(1024,494),(1,494)
(1,505),(1024,505),(1024,524),(1,524)