V&V Reference Report
L2 ASCDS Version : 10.4.2.1

Observation 51471 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Nov 28 2015

Contents

1 Front

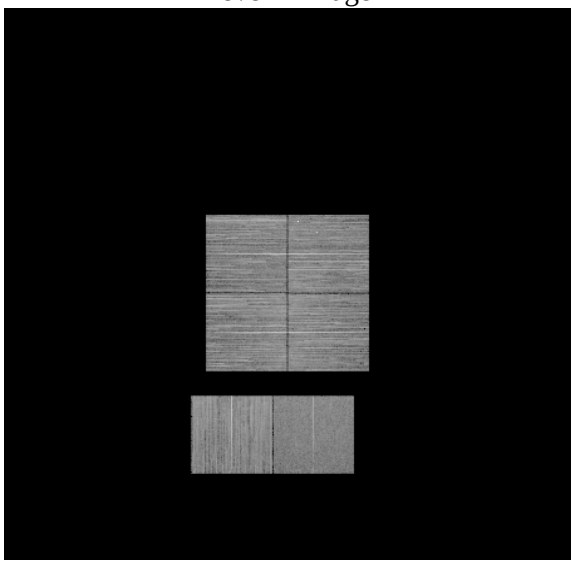
seq_num		Sequence number
obs_id	51471	Observation id
title	ACIS-012367 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	57.87207484631	Nominal RA [deg]
dec_nom	-5.4340494542019	Nominal Dec [deg]
roll_nom	349.79415628152	Nominal Roll [deg]
revision	1	Processing version of data
ontime	6674.380792141	Sum of GTIs [s]
livetime	6589.8657637213	Livetime [s]
ontime0	6674.3397520781	Sum of GTIs [s]
ontime1	6674.2987121344	Sum of GTIs [s]
ontime2	6674.2576720715	Sum of GTIs [s]
ontime3	6674.4218320847	Sum of GTIs [s]
ontime6	6674.2166321278	Sum of GTIs [s]
ontime7	6674.380792141	Sum of GTIs [s]
l2events	116307	Number of level 2 events

2 OBI

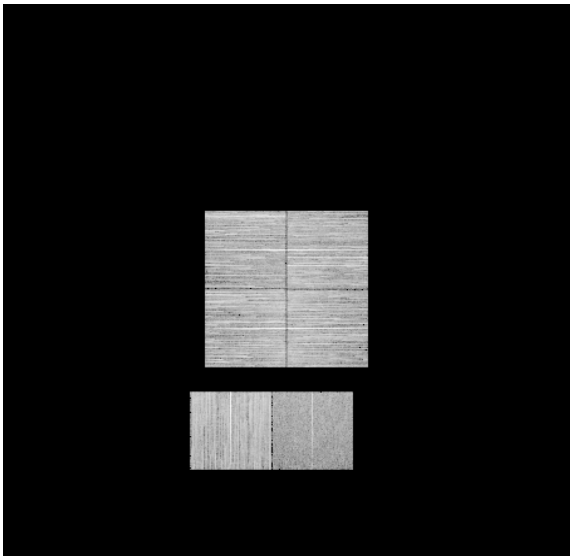
2.1 OBI

2.1.1 Images

Level 1 Image

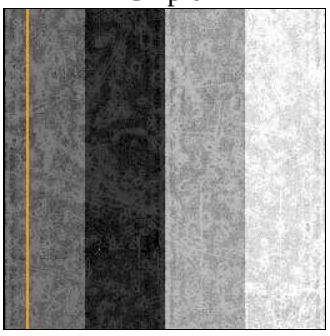


Level 1 Bad Events

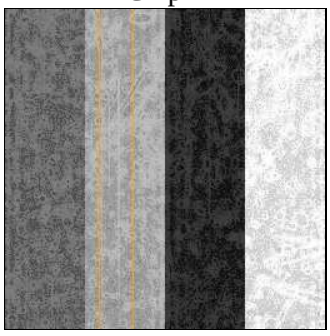


2.1.2 Bias

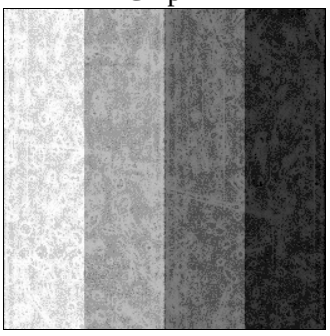
Chip 0



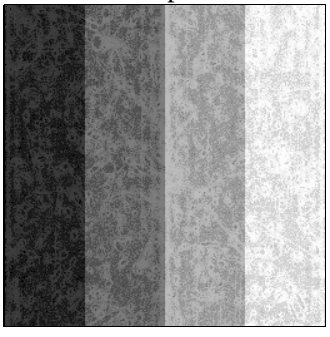
Chip 1



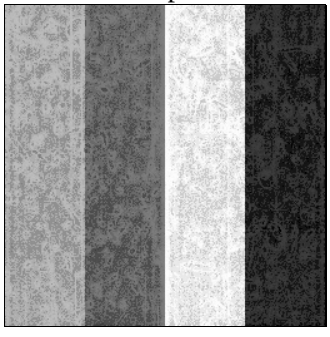
Chip 2



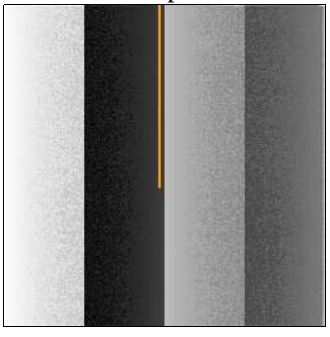
Chip 3



Chip 6



Chip 7



2.1.3 Parameters

obi_num	1	Obi number
ascdsver	10.4.2.1	Processing system revision
caldbver	4.6.10a	
date	2015-11-28T04:49:48	Date and time of file creation
revision	1	Processing version of data

sched_exp_time	0.0	[s] Scheduled observation exposure time
ontime	6674.380792141	Sum of GTIs [s]
ontime0	6674.3397520781	Sum of GTIs [s]
ontime1	6674.2987121344	Sum of GTIs [s]
ontime2	6674.2576720715	Sum of GTIs [s]
ontime3	6674.4218320847	Sum of GTIs [s]
ontime6	6674.2166321278	Sum of GTIs [s]
ontime7	6674.380792141	Sum of GTIs [s]
l1events	764428	Number of level 1 events

2.1.4 Events

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
level 1 events	127309	134687	135324	129091	137520	100497
rejected events	110735	115119	118817	112107	120499	60784
rejected %	86%	85%	87%	86%	87%	60%

	ccd 0	ccd 1	ccd 2	ccd 3	ccd 6	ccd 7
grade 0 events	7877	10054	8229	8420	7740	4496
	6%	7%	6%	6%	5%	4%
grade 1 events	46	62	67	49	40	86
	0%	0%	0%	0%	0%	0%
grade 2 events	3725	4194	3391	3471	3902	9815
	2%	3%	2%	2%	2%	9%
grade 3 events	1154	1120	1214	1208	1108	3053
	0%	0%	0%	0%	0%	3%
grade 4 events	1097	1142	1204	1269	1109	2907
	0%	0%	0%	0%	0%	2%
grade 5 events	2520	2492	2294	2757	2549	6427
	1%	1%	1%	2%	1%	6%
grade 6 events	2811	3167	2569	2712	3244	19593
	2%	2%	1%	2%	2%	19%
grade 7 events	108079	112456	116356	109205	117828	54120
	84%	83%	85%	84%	85%	53%

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	57.87207484630957
[deg] Pointing Dec	0	-5.434049454201894
[deg] Pointing Roll	0.0	349.7941562815157
SIM focus pos (mm)	-0.68282252473119	-0.68282252473119
[mm] SIM defocus	0.8505140384245534	0.8505140384245534
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	565015726.833536	565015726.833536
Observation start date	2015-11-27T12:48:47	2015-11-27T12:48:46
[s] Observation end time (MET)	565023327.789507	565023327.789507
Observation end date	2015-11-27T14:55:28	2015-11-27T14:55:27
Read mode	TIMED	TIMED

Parameter	Planned	Actual
Obspar format version number	7	7
Obspar file type	PREDICTED	ACTUAL
Obspar update status	OVERRIDE	OVERRIDE
Number of optional ACIS chips dropped	0	0
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	David Huenemoerder
V&V Date (YYYY-MM-DD)	2015.11.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	6.674380792141

A.2 Comments