V&V Reference Report
L2 ASCDS Version : 10.4.1

Observation 51719 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jul 29 2015

Contents

1 Front

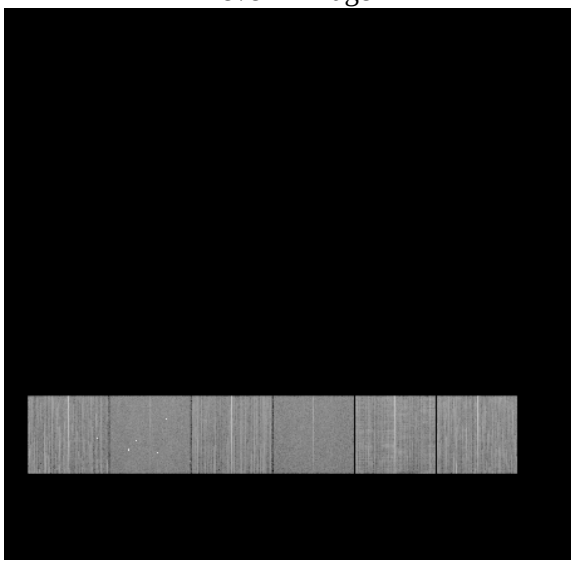
seq_num		Sequence number
obs_id	51719	Observation id
title	ACIS-456789 diagnostics	Proposal title
observer	CHANDRA engineering request/realtime commanding	Principal investig
object		Source name
dtycycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	0.0	Observer's specified target RA [deg]
dec_targ	0.0	Observer's specified target Dec [deg]
ra_nom	136.70469430137	Nominal RA [deg]
dec_nom	-1.5883936291063	Nominal Dec [deg]
roll_nom	155.96075555933	Nominal Roll [deg]
revision	1	Processing version of data
ontime	8028.8001196384	Sum of GTIs [s]
livetime	7927.1346181606	Livetime [s]
ontime4	8028.8001196384	Sum of GTIs [s]
ontime5	8028.8001196384	Sum of GTIs [s]
ontime6	8028.8001196384	Sum of GTIs [s]
ontime7	8028.8001196384	Sum of GTIs [s]
ontime8	8028.8001196384	Sum of GTIs [s]
ontime9	8028.8001196384	Sum of GTIs [s]
l2events	210433	Number of level 2 events

2 OBI

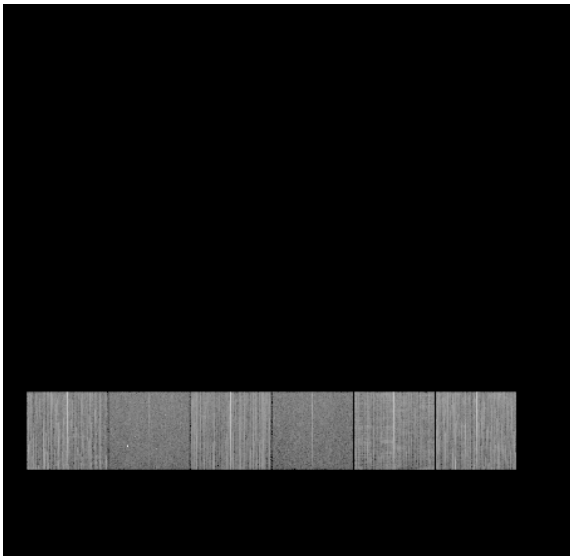
2.1 OBI

2.1.1 Images

Level 1 Image

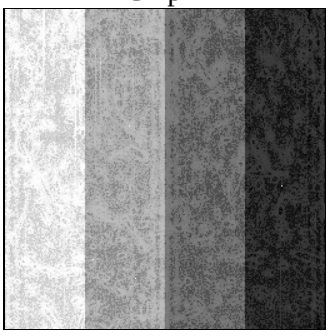


Level 1 Bad Events

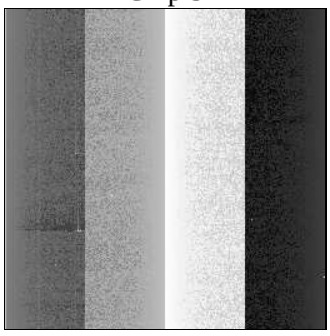


2.1.2 Bias

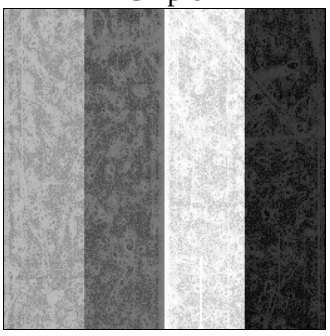
Chip 4



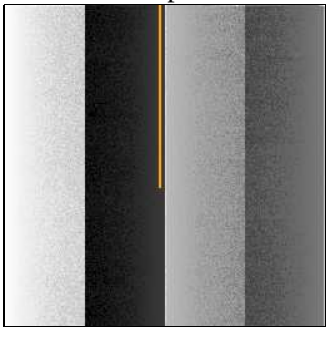
Chip 5



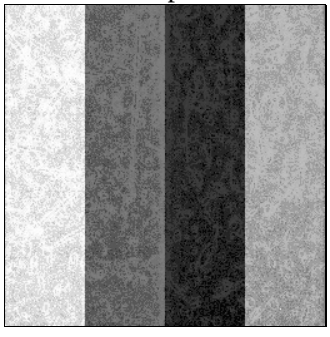
Chip 6



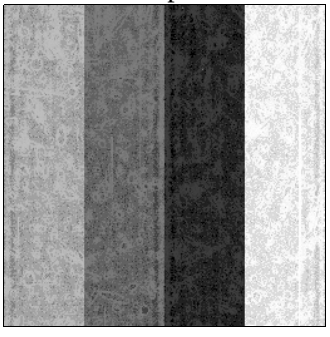
Chip 7



Chip 8



Chip 9



2.1.3 Parameters

obi_num	0	Obi number
ascdsver	10.4.1	Processing system revision
caldbver	4.6.8	
date	2015-07-29T16:53:46	Date and time of file creation
revision	1	Processing version of data

sched_exp_time	0.0	[s] Scheduled observation exposure time
ontime	8028.8001196384	Sum of GTIs [s]
ontime4	8028.8001196384	Sum of GTIs [s]
ontime5	8028.8001196384	Sum of GTIs [s]
ontime6	8028.8001196384	Sum of GTIs [s]
ontime7	8028.8001196384	Sum of GTIs [s]
ontime8	8028.8001196384	Sum of GTIs [s]
ontime9	8028.8001196384	Sum of GTIs [s]
l1events	917971	Number of level 1 events

2.1.4 Events

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	157421	141187	159310	123911	164377	171765
rejected events	128486	79472	130769	71105	125201	143773
rejected %	81%	56%	82%	57%	76%	83%

	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	16128	9945	13859	7449	17189	13807
	10%	7%	8%	6%	10%	8%
grade 1 events	118	135	76	76	98	75
	0%	0%	0%	0%	0%	0%
grade 2 events	5812	22430	6352	13719	8726	6096
	3%	15%	3%	11%	5%	3%
grade 3 events	2024	1939	1975	4272	3080	2030
	1%	1%	1%	3%	1%	1%
grade 4 events	2095	1905	1924	4094	3027	1930
	1%	1%	1%	3%	1%	1%
grade 5 events	3262	6185	3231	7583	4236	3545
	2%	4%	2%	6%	2%	2%
grade 6 events	4649	27893	6105	25369	9112	5753
	2%	19%	3%	20%	5%	3%
grade 7 events	123333	70755	125788	61349	118909	138529
	78%	50%	78%	49%	72%	80%

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	136.7046943013741
[deg] Pointing Dec	0	-1.588393629106302
[deg] Pointing Roll	0.0	155.9607555593319
SIM focus pos (mm)	-0.78090834371673	-0.78090834371673
[mm] SIM defocus	0.7524282194390134	0.7524282194390134
SIM translation stage pos (mm)	250.4660330802	250.4660330802
[mm] SIM translation stage offset	-0.01005726120527584	-0.01005726120527584
[s] Observation start time (MET)	554503780.5506181	554503780.5506181
Observation start date	2015-07-28T20:49:41	2015-07-28T20:49:40
[s] Observation end time (MET)	554513329.283416	554513329.283416
Observation end date	2015-07-28T23:28:49	2015-07-28T23:28:49
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	Beth Sundheim
V&V Date (YYYY-MM-DD)	2015.07.29
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	8.0288001196384

A.2 Comments