

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60479 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 8 2012

Contents

| | | |
|----------|-------------------------------|----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Star Slots | 6 |
| 2.4 | FID Slots | 6 |
| A | Summary | 7 |
| A.1 | Status | 7 |
| A.2 | Comments | 7 |

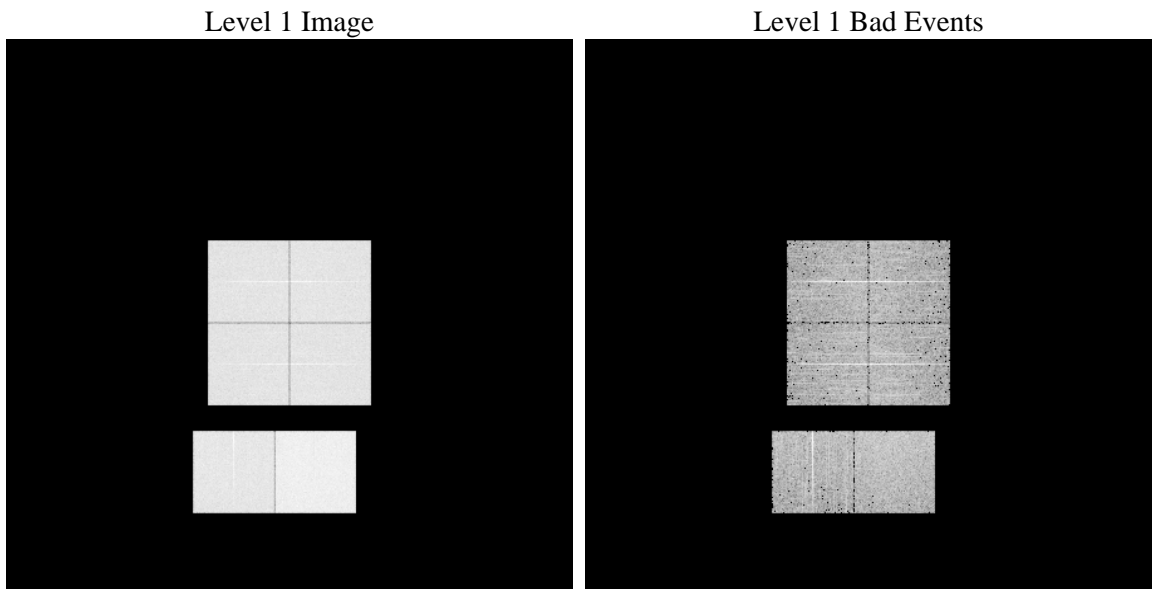
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 60479 | 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 | 348.62411442775 | Nominal RA [deg] |
| dec_nom | -7.215706214165 | Nominal Dec [deg] |
| roll_nom | 293.84379867852 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8469.6490589082 | Sum of GTIs [s] |
| livetime | 8362.4012627139 | Livetime [s] |
| ontime0 | 5886.5533184111 | Sum of GTIs [s] |
| ontime1 | 6008.8435528576 | Sum of GTIs [s] |
| ontime2 | 5707.4321914613 | Sum of GTIs [s] |
| ontime3 | 5726.8786401451 | Sum of GTIs [s] |
| ontime6 | 6164.4109217227 | Sum of GTIs [s] |
| ontime7 | 8469.6490589082 | Sum of GTIs [s] |
| l2events | 1286799 | Number of level 2 events |

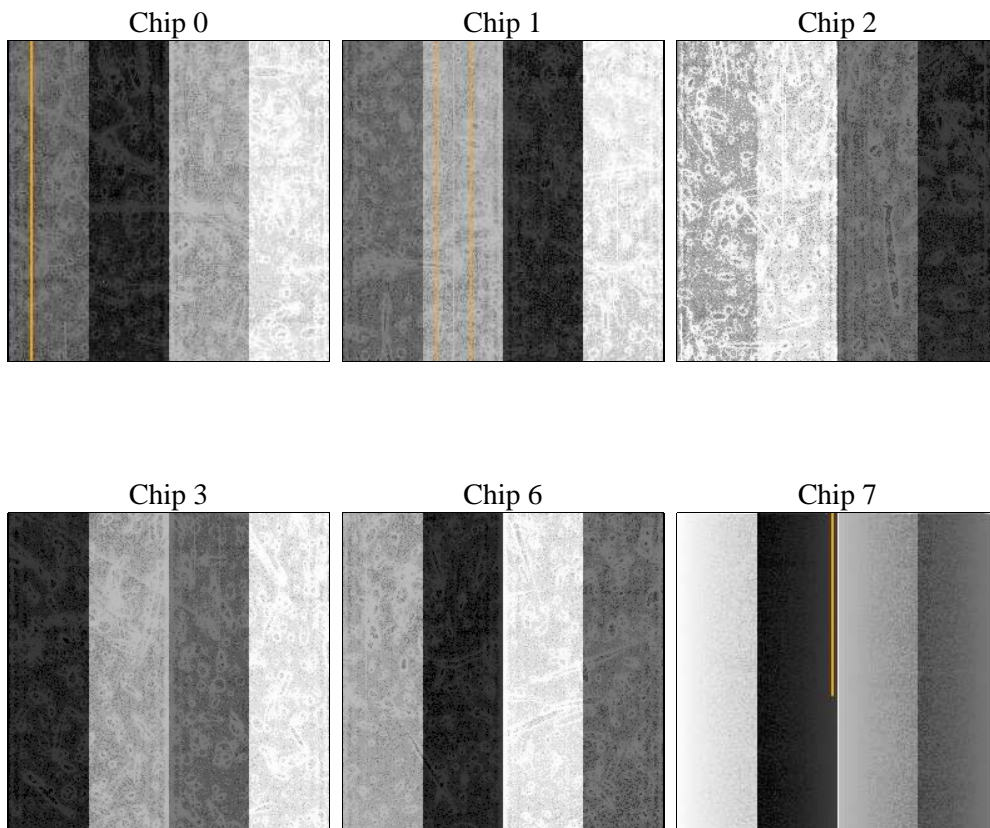
2 OBI

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 | 8.4.5 | Processing system revision | ontime | 8469.6490589082 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime0 | 5886.5533184111 | Sum of GTIs [s] |
| date | 2012-11-08T06:54:30 | Date and time of file creation | ontime1 | 6008.8435528576 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 5707.4321914613 | Sum of GTIs [s] |
| | | | ontime3 | 5726.8786401451 | Sum of GTIs [s] |
| | | | ontime6 | 6164.4109217227 | Sum of GTIs [s] |
| | | | ontime7 | 8469.6490589082 | Sum of GTIs [s] |
| | | | l1events | 1538063 | 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 | 234434 | 238828 | 230915 | 232341 | 258039 | 343506 | grade 0 events | 113662 | 115235 | 112483 | 113477 | 122917 | 76614 |
| rejected events | 29197 | 29329 | 30070 | 30903 | 32979 | 36725 | | 48% | 48% | 48% | 48% | 47% | 22% |
| rejected % | 12% | 12% | 13% | 13% | 12% | 10% | grade 1 events | 561 | 451 | 573 | 592 | 515 | 160 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 35624 | 37048 | 33936 | 34149 | 38420 | 67473 |
| | | | | | | | | 15% | 15% | 14% | 14% | 14% | 19% |
| | | | | | | | grade 3 events | 13361 | 13233 | 13150 | 12899 | 13818 | 31116 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 4 events | 13103 | 13534 | 13076 | 13144 | 14126 | 30844 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 5 events | 2143 | 2204 | 2103 | 2217 | 2400 | 7094 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 2% |
| | | | | | | | grade 6 events | 29594 | 30449 | 28200 | 27769 | 35779 | 100832 |
| | | | | | | | | 12% | 12% | 12% | 11% | 13% | 29% |
| | | | | | | | grade 7 events | 26386 | 26674 | 27394 | 28094 | 30064 | 29373 |
| | | | | | | | | 11% | 11% | 11% | 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 | 348.6241144277496 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -7.215706214165025 | [s] Primary exposure time | 0.000000 | 3.2 |
| [deg] Pointing Roll | 0.0 | 293.8437986785171 | | | |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | -233.592463 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 185540188.771882 | 185540187.74716 | | | |
| Observation start date | 2003-11-18T10:56:29 | 2003-11-18T10:56:27 | | | |
| [s] Observation end time (MET) | 185562039.72283 | 185562038.69811 | | | |
| Observation end date | 2003-11-18T17:00:40 | 2003-11-18T17:00:38 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.12.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.4696490589082 |

A.2 Comments