

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 62148 - L2 Version 4
Chandra X-Ray Center

L2 Processing Date : Aug 24 2012

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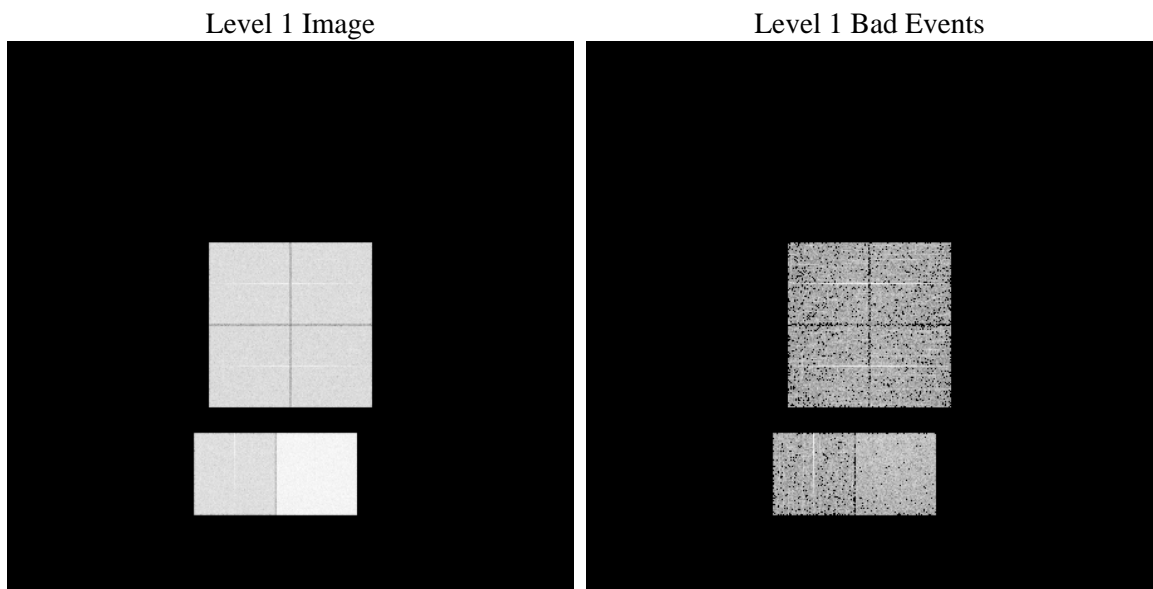
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 62148 | 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 | 15.924281542024 | Nominal RA [deg] |
| dec_nom | 79.958561889157 | Nominal Dec [deg] |
| roll_nom | 325.08627887212 | Nominal Roll [deg] |
| revision | 4 | Processing version of data |
| ontime | 3503.1150152683 | Sum of GTIs [s] |
| livetime | 3458.7564636224 | Livetime [s] |
| ontime0 | 1474.2843636721 | Sum of GTIs [s] |
| ontime1 | 1471.0843038112 | Sum of GTIs [s] |
| ontime2 | 1390.0994537175 | Sum of GTIs [s] |
| ontime3 | 1399.6583837867 | Sum of GTIs [s] |
| ontime6 | 1523.7875935584 | Sum of GTIs [s] |
| ontime7 | 3503.1150152683 | Sum of GTIs [s] |
| l2events | 924431 | Number of level 2 events |

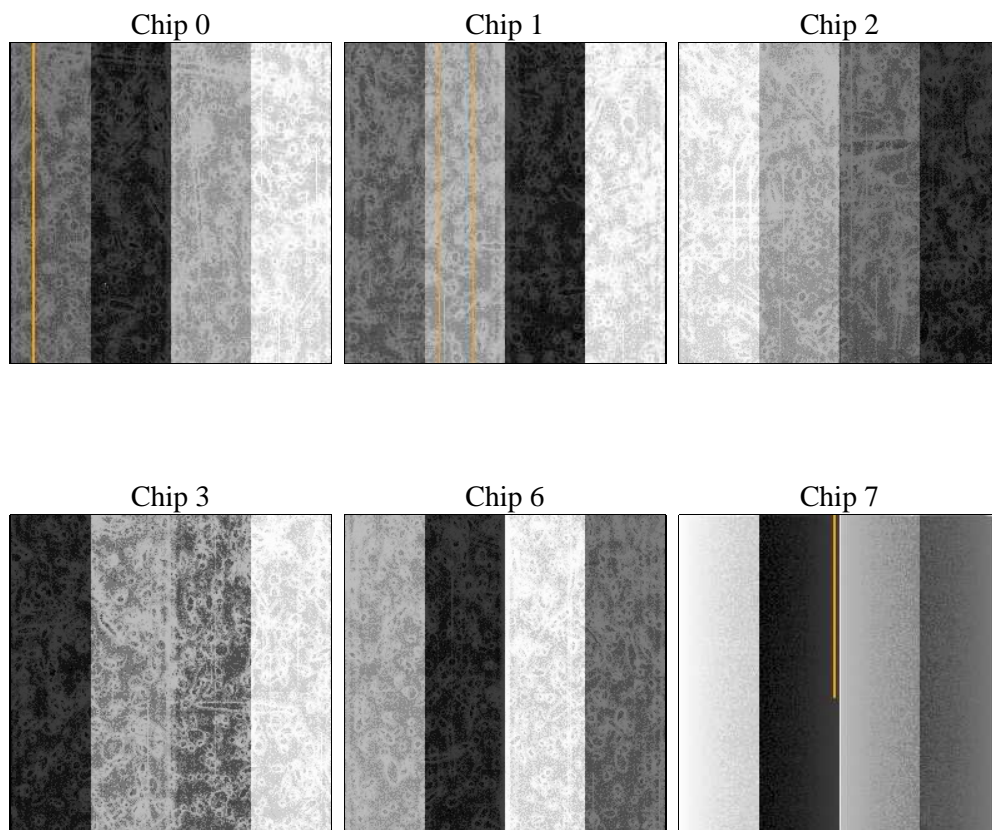
2 OBI

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 | 3503.1150152683 | Sum of GTIs [s] |
| caldsver | 4.5.1.1 | | ontime0 | 1474.2843636721 | Sum of GTIs [s] |
| date | 2012-08-24T14:12:30 | Date and time of file creation | ontime1 | 1471.0843038112 | Sum of GTIs [s] |
| revision | 4 | Processing version of data | ontime2 | 1390.0994537175 | Sum of GTIs [s] |
| | | | ontime3 | 1399.6583837867 | Sum of GTIs [s] |
| | | | ontime6 | 1523.7875935584 | Sum of GTIs [s] |
| | | | ontime7 | 3503.1150152683 | Sum of GTIs [s] |
| | | | l1events | 1061816 | 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 | 143519 | 143928 | 138218 | 139472 | 155903 | 340776 | grade 0 events | 71260 | 71417 | 68741 | 69726 | 76798 | 82742 |
| rejected events | 14876 | 15049 | 15221 | 15593 | 16004 | 21975 | | 49% | 49% | 49% | 49% | 49% | 24% |
| rejected % | 10% | 10% | 11% | 11% | 10% | 6% | grade 1 events | 463 | 420 | 459 | 453 | 451 | 223 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 22499 | 22879 | 21649 | 21627 | 24352 | 70904 |
| | | | | | | | | 15% | 15% | 15% | 15% | 15% | 20% |
| | | | | | | | grade 3 events | 8258 | 8280 | 7715 | 7883 | 8525 | 32782 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 4 events | 8237 | 8171 | 7925 | 7931 | 8844 | 32604 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 5 events | 999 | 1069 | 951 | 979 | 1228 | 4600 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 1% |
| | | | | | | | grade 6 events | 18938 | 18720 | 17575 | 17344 | 22302 | 101509 |
| | | | | | | | | 13% | 13% | 12% | 12% | 14% | 29% |
| | | | | | | | grade 7 events | 12865 | 12972 | 13203 | 13529 | 13403 | 15412 |
| | | | | | | | | 8% | 9% | 9% | 9% | 8% | 4% |

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 | 15.924281542024 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 79.95856188915666 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 325.0862788721189 | | | |
| [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) | 68063390.16436 | 68063389.395896 | | | |
| Observation start date | 2000-02-27T18:29:50 | 2000-02-27T18:29:49 | | | |
| [s] Observation end time (MET) | 68071471.26465499 | 68071470.49619099 | | | |
| Observation end date | 2000-02-27T20:44:31 | 2000-02-27T20:44:30 | | | |
| 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) | 2012.08.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.5031150152683 |

A.2 Comments

The bias map for CCD_ID = 1 was incomplete because of data gaps in telemetry. Bias map for chip 1 were reconstructed using scaled data from a comparable bias map for another observation to fill the data gaps. The region affected is bounded by the chip coordinates:
(1,945),(1024,945),(1024,954),(1,954)