

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 62743 - L2 Version 3

Chandra X-Ray Center

L2 Processing Date : Mar 31 2010

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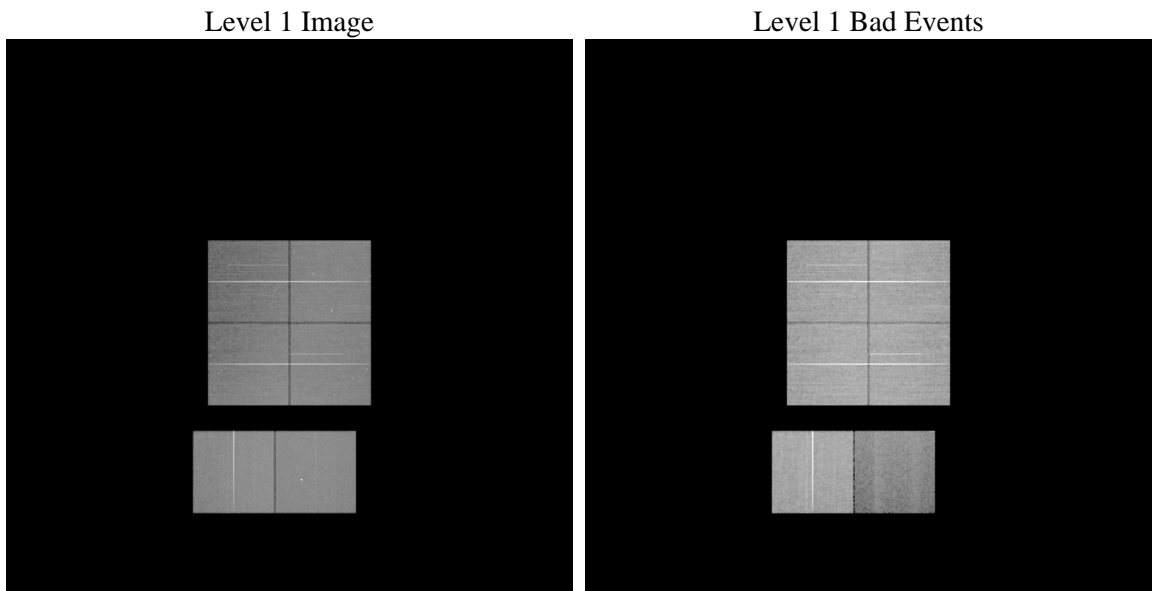
1 Front

| | | |
|----------|---|---|
| seq_num | 0 | Sequence number |
| obs_id | 62743 | Observation id |
| title | ACIS-I FCM | Proposal title |
| observer | CHANDRA orbital activation and checkout | Principal investigator |
| object | | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 0.0 | Observer's specified target RA |
| dec_targ | 0.0 | Observer's specified target Dec |
| ra_nom | 7.0959894505699 | Nominal RA |
| dec_nom | -67.399196560905 | Nominal Dec |
| roll_nom | 52.303762283352 | Nominal Roll |
| revision | 3 | Processing version of data |
| ontime | 29864.843352489 | Sum of GTIs [s] |
| livetime | 29497.995553245 | Livetime [s] |
| ontime0 | 29858.120511763 | Sum of GTIs [s] |
| ontime1 | 29864.76127249 | Sum of GTIs [s] |
| ontime2 | 29861.379411921 | Sum of GTIs [s] |
| ontime3 | 29861.338202335 | Sum of GTIs [s] |
| ontime6 | 29864.638152488 | Sum of GTIs [s] |
| ontime7 | 29864.843352489 | Sum of GTIs [s] |
| l2events | 1400390 | Number of level 2 events |

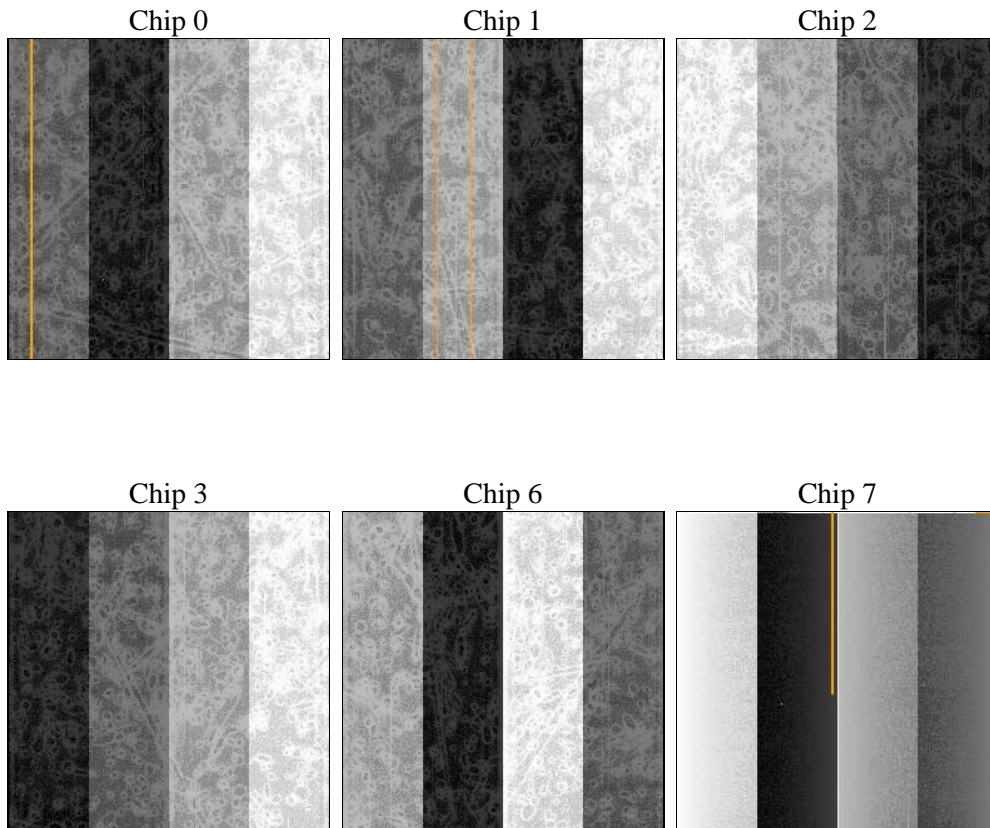
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------------|-------------------------------------|---|----------------|-----|-------------------------------------|--------|-----------------|-----------------|---------|-----------------|-----------------|---------|----------------|-----------------|---------|-----------------|-----------------|---------|-----------------|-----------------|---------|-----------------|-----------------|---------|-----------------|-----------------|----------|---------|--------------------------|
| obi_num | 0 | Obi number | <table><tr><td>sched_exp_time</td><td>0.0</td><td>Scheduled observation exposure time</td></tr><tr><td>ontime</td><td>29864.843352489</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime0</td><td>29858.120511763</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime1</td><td>29864.76127249</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime2</td><td>29861.379411921</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime3</td><td>29861.338202335</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime6</td><td>29864.638152488</td><td>Sum of GTIs [s]</td></tr><tr><td>ontime7</td><td>29864.843352489</td><td>Sum of GTIs [s]</td></tr><tr><td>l1events</td><td>2802209</td><td>Number of level 1 events</td></tr></table> | sched_exp_time | 0.0 | Scheduled observation exposure time | ontime | 29864.843352489 | Sum of GTIs [s] | ontime0 | 29858.120511763 | Sum of GTIs [s] | ontime1 | 29864.76127249 | Sum of GTIs [s] | ontime2 | 29861.379411921 | Sum of GTIs [s] | ontime3 | 29861.338202335 | Sum of GTIs [s] | ontime6 | 29864.638152488 | Sum of GTIs [s] | ontime7 | 29864.843352489 | Sum of GTIs [s] | l1events | 2802209 | Number of level 1 events |
| sched_exp_time | 0.0 | Scheduled observation exposure time | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ontime | 29864.843352489 | Sum of GTIs [s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ontime0 | 29858.120511763 | Sum of GTIs [s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ontime1 | 29864.76127249 | Sum of GTIs [s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ontime2 | 29861.379411921 | Sum of GTIs [s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ontime3 | 29861.338202335 | Sum of GTIs [s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ontime6 | 29864.638152488 | Sum of GTIs [s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ontime7 | 29864.843352489 | Sum of GTIs [s] | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| l1events | 2802209 | Number of level 1 events | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ascdsver | 8.2.1 | ASCDS version number | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| caldsver | 4.1.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| date | 2010-03-31T21:15:34 | Date and time of file creation | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| revision | 3 | Processing version of data | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 303838 | 459792 | 415987 | 502766 | 579575 | 540251 |
| rejected events | 240237 | 245201 | 269865 | 265116 | 258042 | 81459 |
| rejected % | 79% | 53% | 64% | 52% | 44% | 15% |

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 32491 | 109925 | 77927 | 123412 | 161512 | 91725 |
| | 10% | 23% | 18% | 24% | 27% | 16% |
| grade 1 events | 337 | 882 | 672 | 1088 | 1238 | 377 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 11015 | 37413 | 24653 | 41384 | 55678 | 88137 |
| | 3% | 8% | 5% | 8% | 9% | 16% |
| grade 3 events | 5212 | 15456 | 10315 | 16581 | 21728 | 53704 |
| | 1% | 3% | 2% | 3% | 3% | 9% |
| grade 4 events | 4836 | 15384 | 10314 | 16420 | 21556 | 45815 |
| | 1% | 3% | 2% | 3% | 3% | 8% |
| grade 5 events | 4233 | 5276 | 4343 | 5340 | 5853 | 16344 |
| | 1% | 1% | 1% | 1% | 1% | 3% |
| grade 6 events | 10047 | 36413 | 22913 | 39853 | 61059 | 179411 |
| | 3% | 7% | 5% | 7% | 10% | 33% |
| grade 7 events | 235667 | 239043 | 264850 | 258688 | 250951 | 64738 |
| | 77% | 51% | 63% | 51% | 43% | 11% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| 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 |
| Pointing RA | 0 | 7.095989450569902 | Alternating exposures requested | N | N |
| Pointing Dec | 0 | -67.39919656090518 | Primary exposure time | 0.000000 | 3.3 |
| Pointing Roll | 0.0 | 52.30376228335176 | | | |
| SIM focus pos (mm) | -0.782348 | 0.255451383487682 | | | |
| SIM defocus (mm) | 0 | 0.9397188447875782 | | | |
| SIM translation stage pos (mm) | -233.592463 | -190.1325231039672 | | | |
| SIM translation stage offset (mm) | 0 | 5.209593894051068e-07 | | | |
| Observation start time | 50789531.55 | 50789529.628945 | | | |
| Observation start date | 1999-08-11T20:12:12 | 1999-08-11T20:12:09 | | | |
| Observation end time | 50821897.353 | 50821895.030087 | | | |
| Observation end date | 1999-08-12T05:11:37 | 1999-08-12T05:11:35 | | | |
| 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) | 2010.04.01 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 29.864843352489 |

A.2 Comments

The focal plane temperature is warmer than -100C during this observation. This reprocessing of the data applies no CTI correction because none is available for this temperature at present. The ACIS CTI correction has not been calibrated at this temperature, because it was early in the mission, and ACIS had not yet been lowered to the standard -119.7 C. Both front and back illuminated chips are affected. However a T_GAIN correction has been applied to the BI chip (ACIS-7) data included here.