

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 52082 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 13 2015

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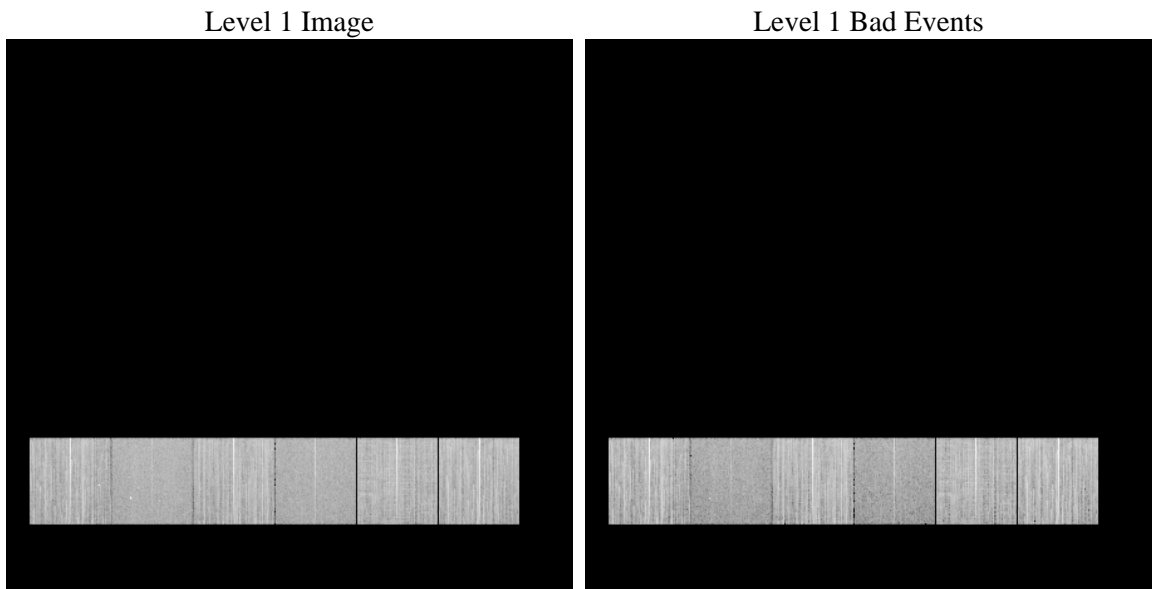
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 52082 | Observation id |
| title | ACIS-456789 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 | 142.68447063707 | Nominal RA [deg] |
| dec_nom | 8.01734451857 | Nominal Dec [deg] |
| roll_nom | 174.79093894523 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8249.6001229286 | Sum of GTIs [s] |
| livetime | 8145.1387188593 | Livetime [s] |
| ontime4 | 8249.6001229286 | Sum of GTIs [s] |
| ontime5 | 8249.6001229286 | Sum of GTIs [s] |
| ontime6 | 8249.6001229286 | Sum of GTIs [s] |
| ontime7 | 8249.6001229286 | Sum of GTIs [s] |
| ontime8 | 8249.6001229286 | Sum of GTIs [s] |
| ontime9 | 8246.3590525389 | Sum of GTIs [s] |
| l2events | 189429 | Number of level 2 events |

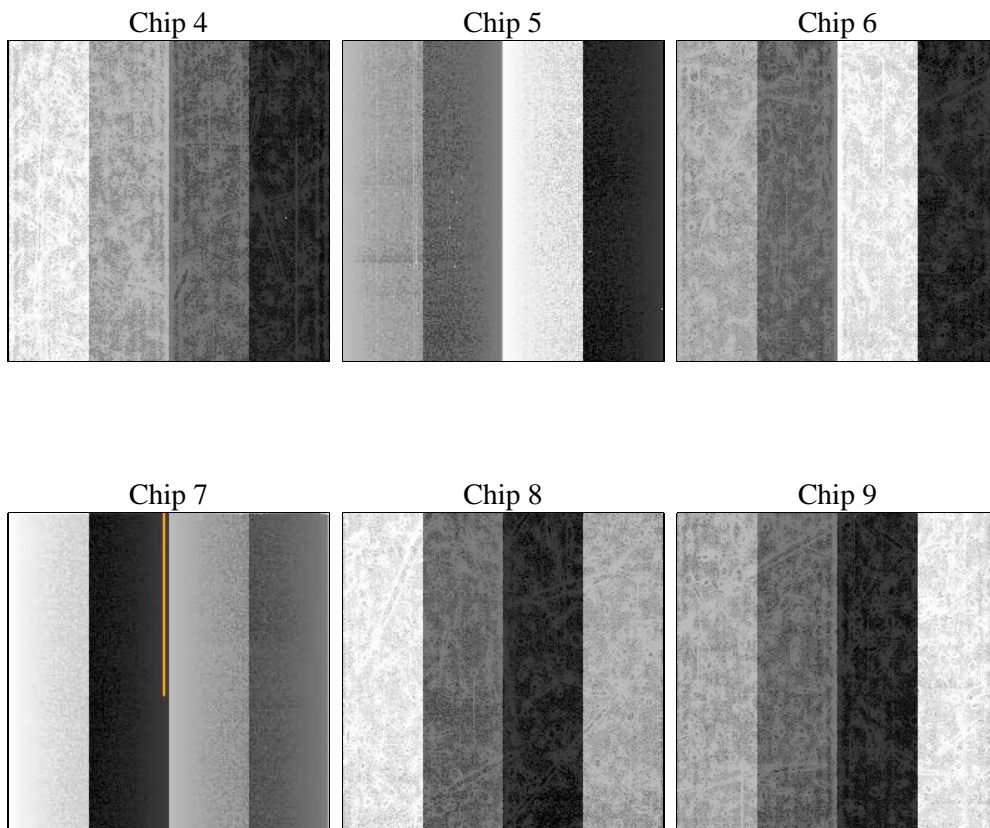
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 10.3.3 | Processing system revision | ontime | 8249.6001229286 | Sum of GTIs [s] |
| caldbver | 4.6.6 | | ontime4 | 8249.6001229286 | Sum of GTIs [s] |
| date | 2015-02-13T12:28:19 | Date and time of file creation | ontime5 | 8249.6001229286 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime6 | 8249.6001229286 | Sum of GTIs [s] |
| | | | ontime7 | 8249.6001229286 | Sum of GTIs [s] |
| | | | ontime8 | 8249.6001229286 | Sum of GTIs [s] |
| | | | ontime9 | 8246.3590525389 | Sum of GTIs [s] |
| | | | l1events | 913658 | Number of level 1 events |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 | | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|--------|-------|--------|-------|--------|--------|
| level 1 events | 157709 | 129434 | 168243 | 122903 | 163336 | 172033 | grade 0 events | 13066 | 3631 | 9471 | 5739 | 13661 | 11001 |
| rejected events | 132805 | 76115 | 143897 | 73724 | 130434 | 147758 | | 8% | 2% | 5% | 4% | 8% | 6% |
| rejected % | 84% | 58% | 85% | 59% | 79% | 85% | grade 1 events | 104 | 183 | 55 | 75 | 66 | 62 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4982 | 19307 | 7335 | 12437 | 7801 | 5863 |
| | | | | | | | | 3% | 14% | 4% | 10% | 4% | 3% |
| | | | | | | | grade 3 events | 1713 | 1685 | 1377 | 3404 | 2549 | 1500 |
| | | | | | | | | 1% | 1% | 0% | 2% | 1% | 0% |
| | | | | | | | grade 4 events | 1778 | 1530 | 1306 | 3386 | 2427 | 1538 |
| | | | | | | | | 1% | 1% | 0% | 2% | 1% | 0% |
| | | | | | | | grade 5 events | 3159 | 5602 | 2759 | 6921 | 3832 | 3199 |
| | | | | | | | | 2% | 4% | 1% | 5% | 2% | 1% |
| | | | | | | | grade 6 events | 3589 | 27644 | 5066 | 24655 | 6740 | 4576 |
| | | | | | | | | 2% | 21% | 3% | 20% | 4% | 2% |
| | | | | | | | grade 7 events | 129318 | 69852 | 140874 | 66286 | 126260 | 144294 |
| | | | | | | | | 81% | 53% | 83% | 53% | 77% | 83% |

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 | 142.6844706370728 |
| [deg] Pointing Dec | 0 | 8.017344518570022 |
| [deg] Pointing Roll | 0.0 | 174.7909389452349 |
| SIM focus pos (mm) | -1.4281808131 | -1.4281808131 |
| [mm] SIM defocus | 0.1051557500557434 | 0.1051557500557434 |
| SIM translation stage pos (mm) | 250.4660330802 | 250.4660330802 |
| [mm] SIM translation stage offset | -0.01005726120527584 | -0.01005726120527584 |
| [s] Observation start time (MET) | 540148263.195541 | 540148263.195541 |
| Observation start date | 2015-02-12T17:11:03 | 2015-02-12T17:11:03 |
| [s] Observation end time (MET) | 540157882.914778 | 540157882.914778 |
| Observation end date | 2015-02-12T19:51:23 | 2015-02-12T19:51:22 |
| 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 | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2015.02.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2496001229286 |

A.2 Comments