

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 52079 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 15 2015

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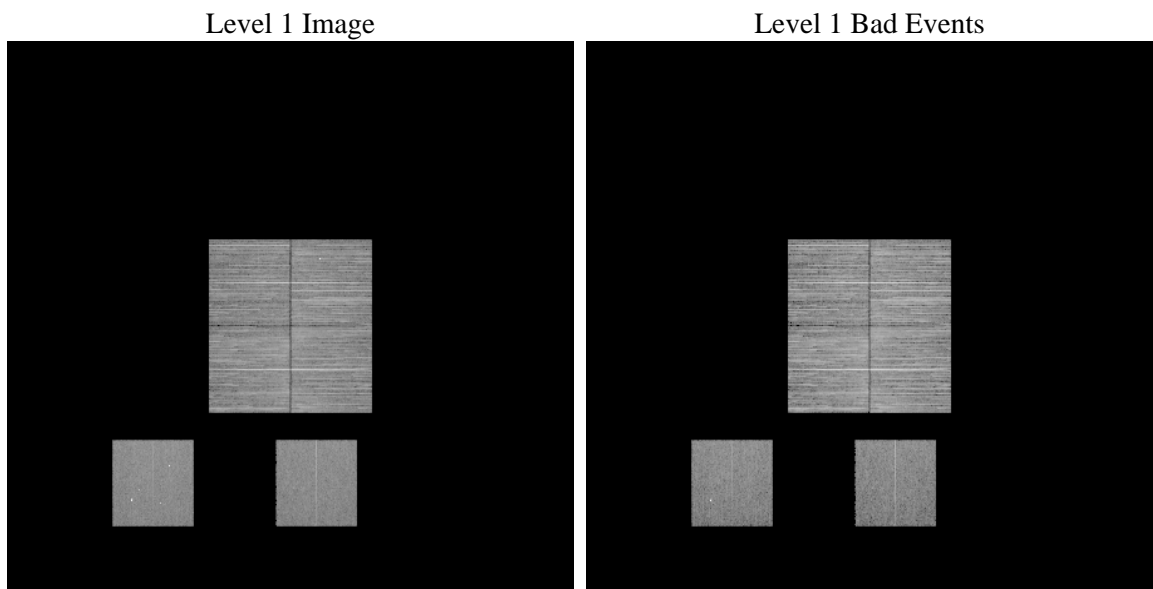
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 52079 | Observation id |
| title | ACIS-012357 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 | 129.90248351295 | Nominal RA [deg] |
| dec_nom | 26.112845179141 | Nominal Dec [deg] |
| roll_nom | 244.5394364351 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8220.2597002983 | Sum of GTIs [s] |
| livetime | 8116.169822327 | Livetime [s] |
| ontime0 | 8220.2186602354 | Sum of GTIs [s] |
| ontime1 | 8220.1776202917 | Sum of GTIs [s] |
| ontime2 | 8220.1365802288 | Sum of GTIs [s] |
| ontime3 | 8220.300740242 | Sum of GTIs [s] |
| ontime5 | 8220.0955402851 | Sum of GTIs [s] |
| ontime7 | 8220.2597002983 | Sum of GTIs [s] |
| l2events | 186903 | Number of level 2 events |

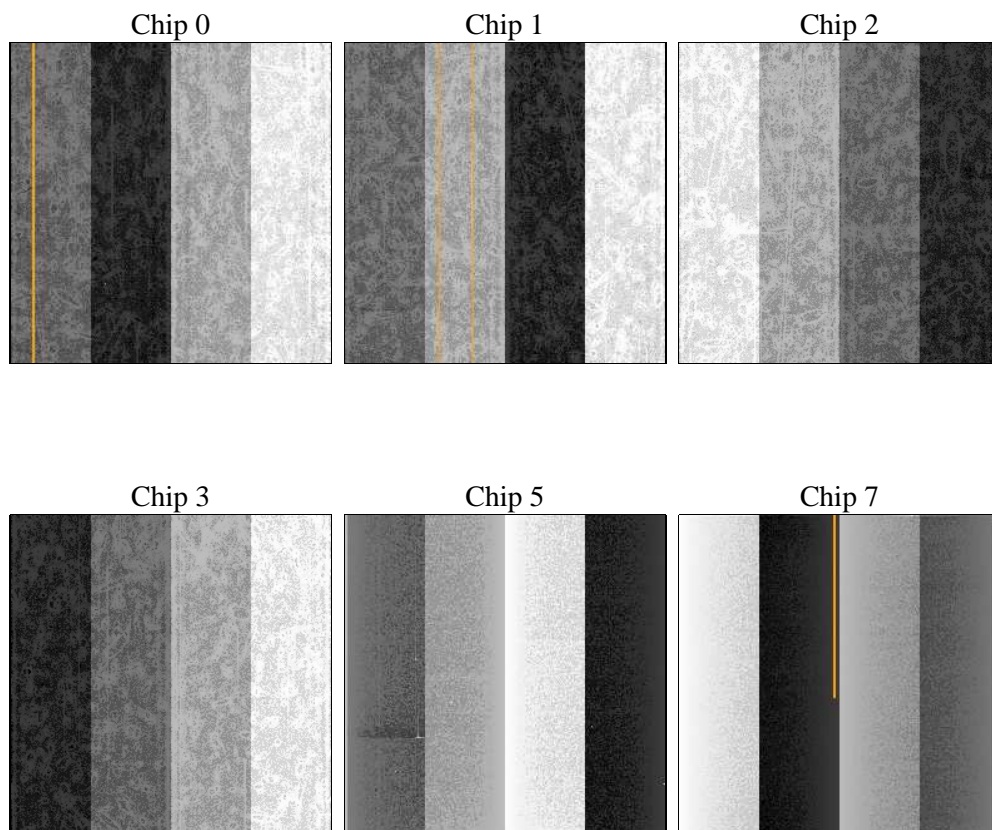
2 OBI

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 | 8220.2597002983 | Sum of GTIs [s] |
| caldsver | 4.6.6 | | ontime0 | 8220.2186602354 | Sum of GTIs [s] |
| date | 2015-02-15T10:25:27 | Date and time of file creation | ontime1 | 8220.1776202917 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 8220.1365802288 | Sum of GTIs [s] |
| | | | ontime3 | 8220.300740242 | Sum of GTIs [s] |
| | | | ontime5 | 8220.0955402851 | Sum of GTIs [s] |
| | | | ontime7 | 8220.2597002983 | Sum of GTIs [s] |
| | | | l1events | 847845 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|-------|-------|
| level 1 events | 133491 | 155555 | 154221 | 155417 | 129715 | 119446 | grade 0 events | 11238 | 13035 | 11807 | 11556 | 6395 | 6419 |
| rejected events | 110523 | 130296 | 131085 | 132315 | 73350 | 68989 | | 8% | 8% | 7% | 7% | 4% | 5% |
| rejected % | 82% | 83% | 84% | 85% | 56% | 57% | grade 1 events | 72 | 70 | 71 | 83 | 149 | 110 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4807 | 5153 | 4471 | 4651 | 20347 | 12463 |
| | | | | | | | | 3% | 3% | 2% | 2% | 15% | 10% |
| | | | | | | | grade 3 events | 1687 | 1596 | 1700 | 1700 | 1867 | 4099 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1564 | 1659 | 1609 | 1682 | 1804 | 4014 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 2941 | 2980 | 2775 | 3335 | 6249 | 7551 |
| | | | | | | | | 2% | 1% | 1% | 2% | 4% | 6% |
| | | | | | | | grade 6 events | 3823 | 3961 | 3651 | 3636 | 26254 | 23731 |
| | | | | | | | | 2% | 2% | 2% | 2% | 20% | 19% |
| | | | | | | | grade 7 events | 107359 | 127101 | 128137 | 128774 | 66650 | 61059 |
| | | | | | | | | 80% | 81% | 83% | 82% | 51% | 51% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012357 | ACIS-012357 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 129.9024835129471 |
| [deg] Pointing Dec | 0 | 26.11284517914136 |
| [deg] Pointing Roll | 0.0 | 244.5394364350956 |
| 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) | 540339095.656199 | 540339095.656199 |
| Observation start date | 2015-02-14T22:11:36 | 2015-02-14T22:11:35 |
| [s] Observation end time (MET) | 540348645.565492 | 540348645.565492 |
| Observation end date | 2015-02-15T00:50:46 | 2015-02-15T00:50:45 |
| 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) | 2015.02.15 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2202597002983 |

A.2 Comments