

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 53102 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jan 12 2014

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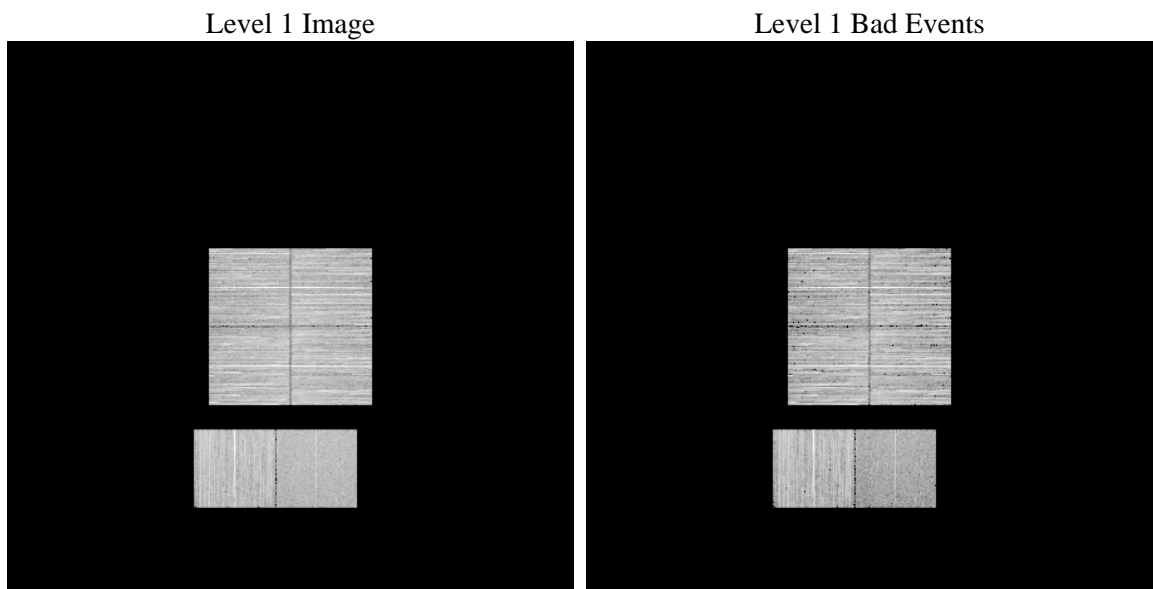
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 53102 | 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 | 107.02845000442 | Nominal RA [deg] |
| dec_nom | 8.0058129408454 | Nominal Dec [deg] |
| roll_nom | 338.61436314661 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 6092.7218471766 | Sum of GTIs [s] |
| livetime | 6015.5721345509 | Livetime [s] |
| ontime0 | 6092.6808071733 | Sum of GTIs [s] |
| ontime1 | 6092.63976717 | Sum of GTIs [s] |
| ontime2 | 6092.5987271667 | Sum of GTIs [s] |
| ontime3 | 6092.7628871799 | Sum of GTIs [s] |
| ontime6 | 6092.5576871634 | Sum of GTIs [s] |
| ontime7 | 6092.7218471766 | Sum of GTIs [s] |
| l2events | 133894 | Number of level 2 events |

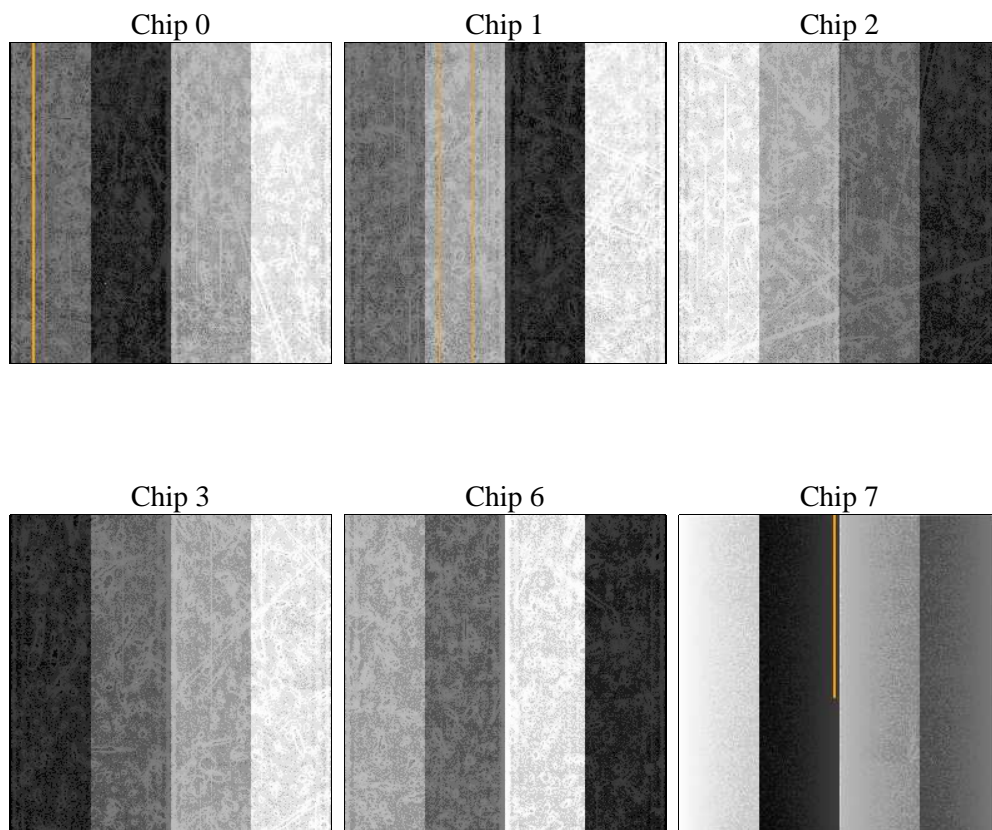
2 OBI

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 | 10.1.1 | Processing system revision | ontime | 6092.7218471766 | Sum of GTIs [s] |
| caldsver | 4.6.0 | | ontime0 | 6092.6808071733 | Sum of GTIs [s] |
| date | 2014-01-12T16:13:15 | Date and time of file creation | ontime1 | 6092.63976717 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 6092.5987271667 | Sum of GTIs [s] |
| | | | ontime3 | 6092.7628871799 | Sum of GTIs [s] |
| | | | ontime6 | 6092.5576871634 | Sum of GTIs [s] |
| | | | ontime7 | 6092.7218471766 | Sum of GTIs [s] |
| | | | l1events | 624676 | 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 | 99266 | 107880 | 110900 | 109915 | 110797 | 85918 | grade 0 events | 10834 | 10546 | 11213 | 11025 | 11071 | 5824 |
| rejected events | 78805 | 87273 | 90265 | 89432 | 89242 | 47825 | | 10% | 9% | 10% | 10% | 9% | 6% |
| rejected % | 79% | 80% | 81% | 81% | 80% | 55% | grade 1 events | 57 | 42 | 54 | 59 | 39 | 88 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4345 | 4556 | 4164 | 4112 | 4697 | 9767 |
| | | | | | | | | 4% | 4% | 3% | 3% | 4% | 11% |
| | | | | | | | grade 3 events | 1438 | 1405 | 1467 | 1502 | 1439 | 3333 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1364 | 1394 | 1490 | 1498 | 1389 | 3339 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 1988 | 2015 | 1926 | 2244 | 2119 | 5348 |
| | | | | | | | | 2% | 1% | 1% | 2% | 1% | 6% |
| | | | | | | | grade 6 events | 3346 | 3591 | 3184 | 3237 | 3869 | 17499 |
| | | | | | | | | 3% | 3% | 2% | 2% | 3% | 20% |
| | | | | | | | grade 7 events | 75894 | 84331 | 87402 | 86238 | 86174 | 40720 |
| | | | | | | | | 76% | 78% | 78% | 78% | 77% | 47% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 107.028450004423 |
| [deg] Pointing Dec | 0 | 8.005812940845429 |
| [deg] Pointing Roll | 0.0 | 338.6143631466124 |
| 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) | 505837415.394326 | 505837415.394326 |
| Observation start date | 2014-01-11T14:23:35 | 2014-01-11T14:23:35 |
| [s] Observation end time (MET) | 505844959.789741 | 505844959.789741 |
| Observation end date | 2014-01-11T16:29:20 | 2014-01-11T16:29:19 |
| 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) | 2014.01.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.0927218471766 |

A.2 Comments