

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 52947 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Mar 6 2014

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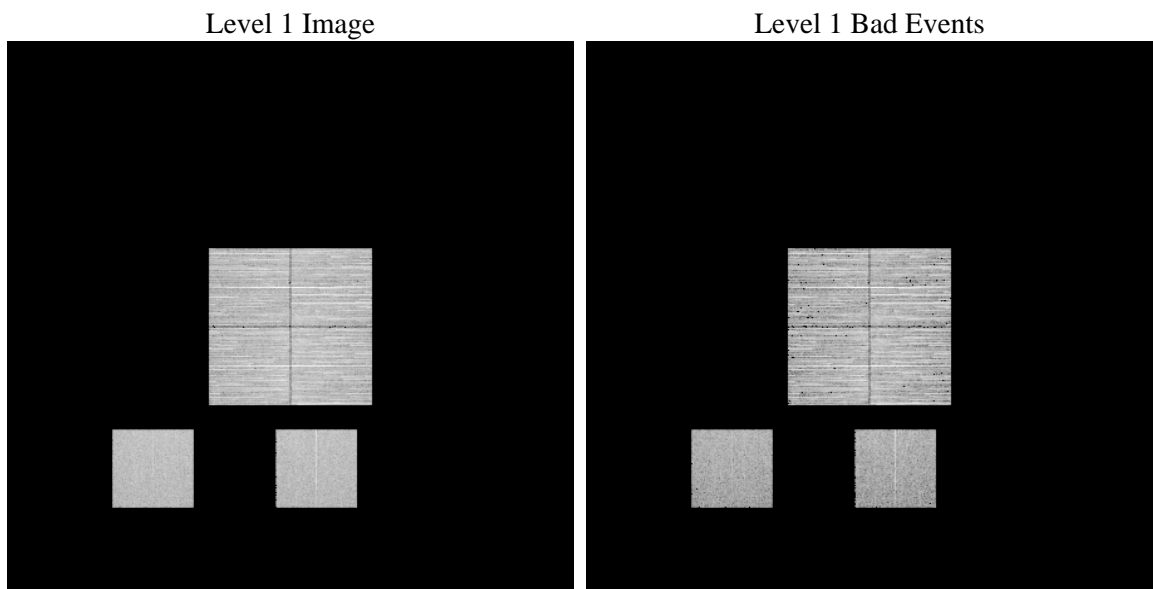
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 52947 | 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 | 344.03344940069 | Nominal RA [deg] |
| dec_nom | 46.016756196622 | Nominal Dec [deg] |
| roll_nom | 2.8350057060083 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 5980.7999777794 | Sum of GTIs [s] |
| livetime | 5905.0674872554 | Livetime [s] |
| ontime0 | 5896.5362130404 | Sum of GTIs [s] |
| ontime1 | 5896.5330870748 | Sum of GTIs [s] |
| ontime2 | 5877.0900526643 | Sum of GTIs [s] |
| ontime3 | 5893.295173049 | Sum of GTIs [s] |
| ontime5 | 5980.7999777794 | Sum of GTIs [s] |
| ontime7 | 5980.7999777794 | Sum of GTIs [s] |
| l2events | 184847 | Number of level 2 events |

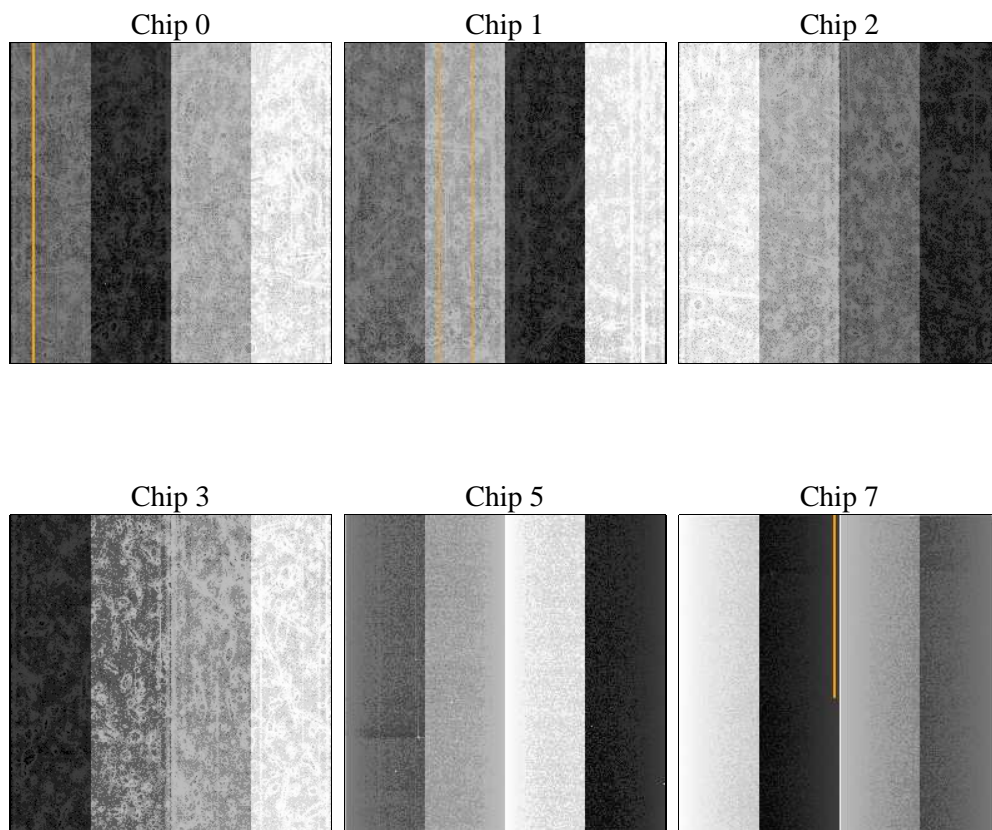
2 OBI

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 | 10.2.1 | Processing system revision | ontime | 5980.7999777794 | Sum of GTIs [s] |
| caldsver | 4.6.0 | | ontime0 | 5896.5362130404 | Sum of GTIs [s] |
| date | 2014-03-06T12:28:44 | Date and time of file creation | ontime1 | 5896.5330870748 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 5877.0900526643 | Sum of GTIs [s] |
| | | | ontime3 | 5893.295173049 | Sum of GTIs [s] |
| | | | ontime5 | 5980.7999777794 | Sum of GTIs [s] |
| | | | ontime7 | 5980.7999777794 | Sum of GTIs [s] |
| | | | l1events | 600678 | 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 | 98945 | 109073 | 104182 | 110144 | 90362 | 87972 | grade 0 events | 13119 | 12454 | 13486 | 13536 | 4022 | 6776 |
| rejected events | 71922 | 81816 | 77615 | 83084 | 47272 | 44960 | | 13% | 11% | 12% | 12% | 4% | 7% |
| rejected % | 72% | 75% | 74% | 75% | 52% | 51% | grade 1 events | 58 | 47 | 71 | 82 | 101 | 59 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 5665 | 6275 | 5136 | 5285 | 16909 | 11042 |
| | | | | | | | | 5% | 5% | 4% | 4% | 18% | 12% |
| | | | | | | | grade 3 events | 1763 | 1682 | 1746 | 1821 | 1427 | 3304 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1687 | 1669 | 1708 | 1744 | 1401 | 3169 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 1858 | 1842 | 1748 | 2023 | 3898 | 4843 |
| | | | | | | | | 1% | 1% | 1% | 1% | 4% | 5% |
| | | | | | | | grade 6 events | 4839 | 5239 | 4549 | 4727 | 19421 | 18822 |
| | | | | | | | | 4% | 4% | 4% | 4% | 21% | 21% |
| | | | | | | | grade 7 events | 69956 | 79865 | 75738 | 80926 | 43183 | 39957 |
| | | | | | | | | 70% | 73% | 72% | 73% | 47% | 45% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012357 | ACIS-012357 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | SECONDARY | SECONDARY | On-chip summing requested | N | N |
| [deg] Pointing RA | 0 | 344.0334494006851 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 46.01675619662171 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 2.835005706008263 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 510439062.947521 | 510439061.92252 | | | |
| Observation start date | 2014-03-05T20:37:43 | 2014-03-05T20:37:41 | | | |
| [s] Observation end time (MET) | 510448702.048052 | 510448701.02305 | | | |
| Observation end date | 2014-03-05T23:18:22 | 2014-03-05T23:18:21 | | | |
| 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) | 2014.03.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.9807999777794 |

A.2 Comments