

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 55463 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 9 2012

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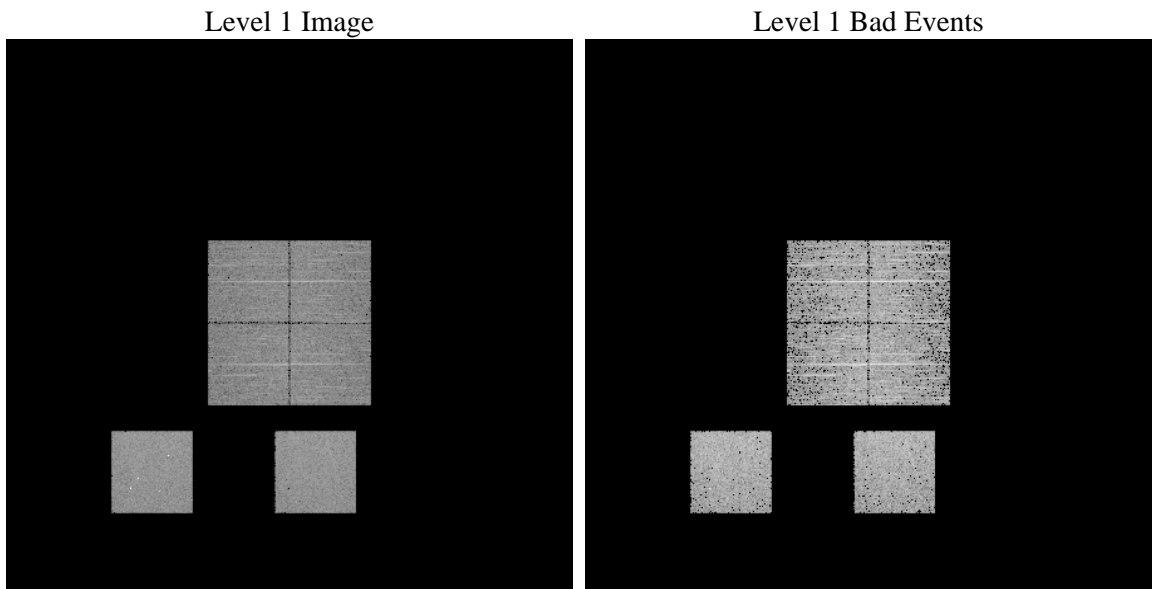
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 55463 | 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 | 359.96981884106 | Nominal RA [deg] |
| dec_nom | -23.992136000007 | Nominal Dec [deg] |
| roll_nom | 131.18528062974 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 3288.9249792695 | Sum of GTIs [s] |
| livetime | 3247.2786308291 | Livetime [s] |
| ontime0 | 3288.8839392662 | Sum of GTIs [s] |
| ontime1 | 3288.8428992629 | Sum of GTIs [s] |
| ontime2 | 3288.8018592596 | Sum of GTIs [s] |
| ontime3 | 3288.9660192728 | Sum of GTIs [s] |
| ontime5 | 3288.7608192563 | Sum of GTIs [s] |
| ontime7 | 3288.9249792695 | Sum of GTIs [s] |
| l2events | 137937 | Number of level 2 events |

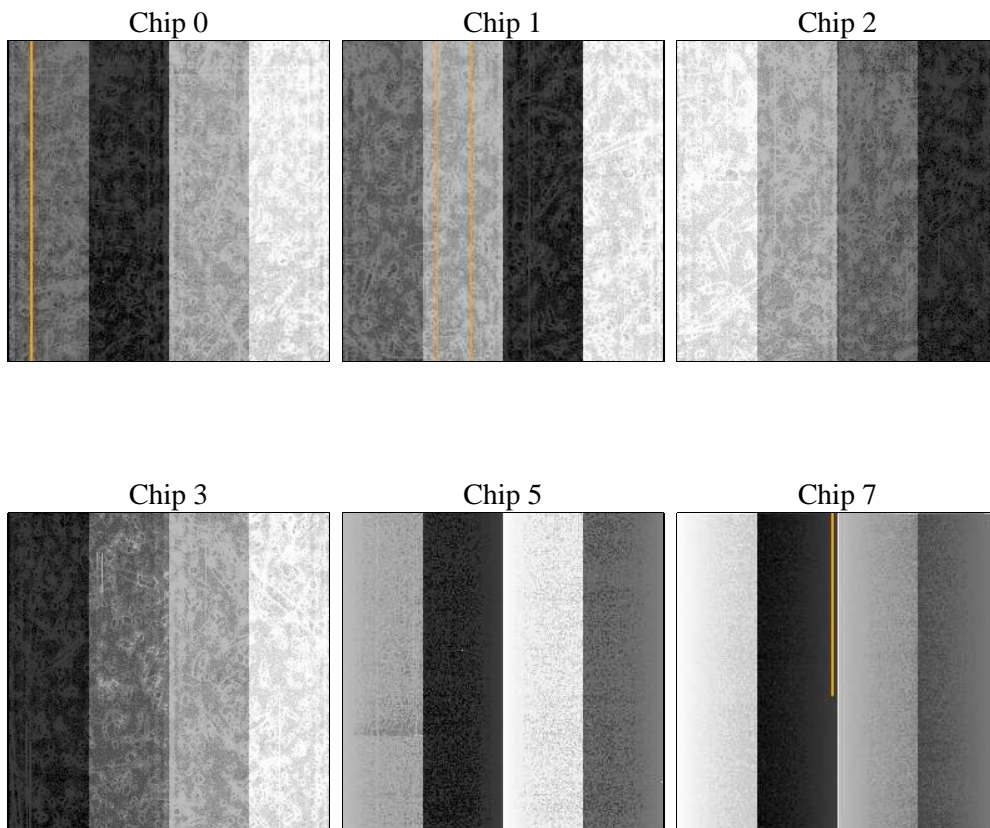
2 OBI

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 | 8.4.3 | Processing system revision | ontime | 3288.9249792695 | Sum of GTIs [s] |
| caldsver | 4.4.7 | | ontime0 | 3288.8839392662 | Sum of GTIs [s] |
| date | 2012-02-09T15:21:41 | Date and time of file creation | ontime1 | 3288.8428992629 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 3288.8018592596 | Sum of GTIs [s] |
| | | | ontime3 | 3288.9660192728 | Sum of GTIs [s] |
| | | | ontime5 | 3288.7608192563 | Sum of GTIs [s] |
| | | | ontime7 | 3288.9249792695 | Sum of GTIs [s] |
| | | | l1events | 275428 | 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 | 40067 | 41681 | 40540 | 41555 | 56939 | 54646 | grade 0 events | 10565 | 10352 | 10928 | 10806 | 5395 | 5555 |
| rejected events | 19880 | 21538 | 20421 | 21436 | 23382 | 22722 | | 26% | 24% | 26% | 26% | 9% | 10% |
| rejected % | 49% | 51% | 50% | 51% | 41% | 41% | grade 1 events | 64 | 68 | 71 | 77 | 159 | 39 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 3751 | 3888 | 3538 | 3504 | 11740 | 7025 |
| | | | | | | | | 9% | 9% | 8% | 8% | 20% | 12% |
| | | | | | | | grade 3 events | 1320 | 1258 | 1390 | 1429 | 1338 | 2796 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 5% |
| | | | | | | | grade 4 events | 1323 | 1337 | 1306 | 1391 | 1346 | 2907 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 5% |
| | | | | | | | grade 5 events | 1317 | 1401 | 1278 | 1385 | 2980 | 3725 |
| | | | | | | | | 3% | 3% | 3% | 3% | 5% | 6% |
| | | | | | | | grade 6 events | 3228 | 3308 | 2957 | 2989 | 13738 | 13641 |
| | | | | | | | | 8% | 7% | 7% | 7% | 24% | 24% |
| | | | | | | | grade 7 events | 18499 | 20069 | 19072 | 19974 | 20243 | 18958 |
| | | | | | | | | 46% | 48% | 47% | 48% | 35% | 34% |

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 | 359.9698188410628 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -23.99213600000698 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 131.1852806297375 | [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 | 250.4635187648994 | | | |
| [mm] SIM translation stage offset | 0 | -0.007540371344731511 | | | |
| [s] Observation start time (MET) | 420838360.859594 | 420838359.83461 | | | |
| Observation start date | 2011-05-03T19:32:41 | 2011-05-03T19:32:39 | | | |
| [s] Observation end time (MET) | 420849988.460198 | 420849987.43521 | | | |
| Observation end date | 2011-05-03T22:46:28 | 2011-05-03T22:46:27 | | | |
| 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) | 2012.02.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.2889249792695 |

A.2 Comments