

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 59806 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 17 2012

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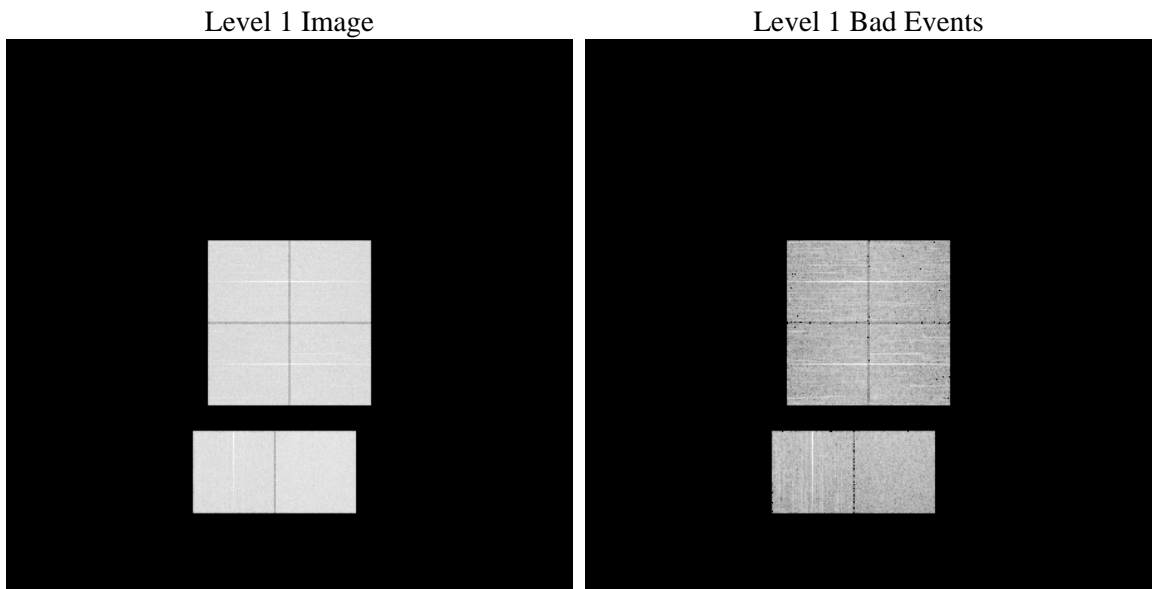
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 59806 | 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 | 131.41157748973 | Nominal RA [deg] |
| dec_nom | 17.37349529507 | Nominal Dec [deg] |
| roll_nom | 257.51458736792 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8274.9799187779 | Sum of GTIs [s] |
| livetime | 8170.1971404517 | Livetime [s] |
| ontime0 | 7383.0222234428 | Sum of GTIs [s] |
| ontime1 | 7487.3410461545 | Sum of GTIs [s] |
| ontime2 | 7101.0572591126 | Sum of GTIs [s] |
| ontime3 | 7282.5521337986 | Sum of GTIs [s] |
| ontime6 | 7616.3723056614 | Sum of GTIs [s] |
| ontime7 | 8274.9799187779 | Sum of GTIs [s] |
| l2events | 1131180 | Number of level 2 events |

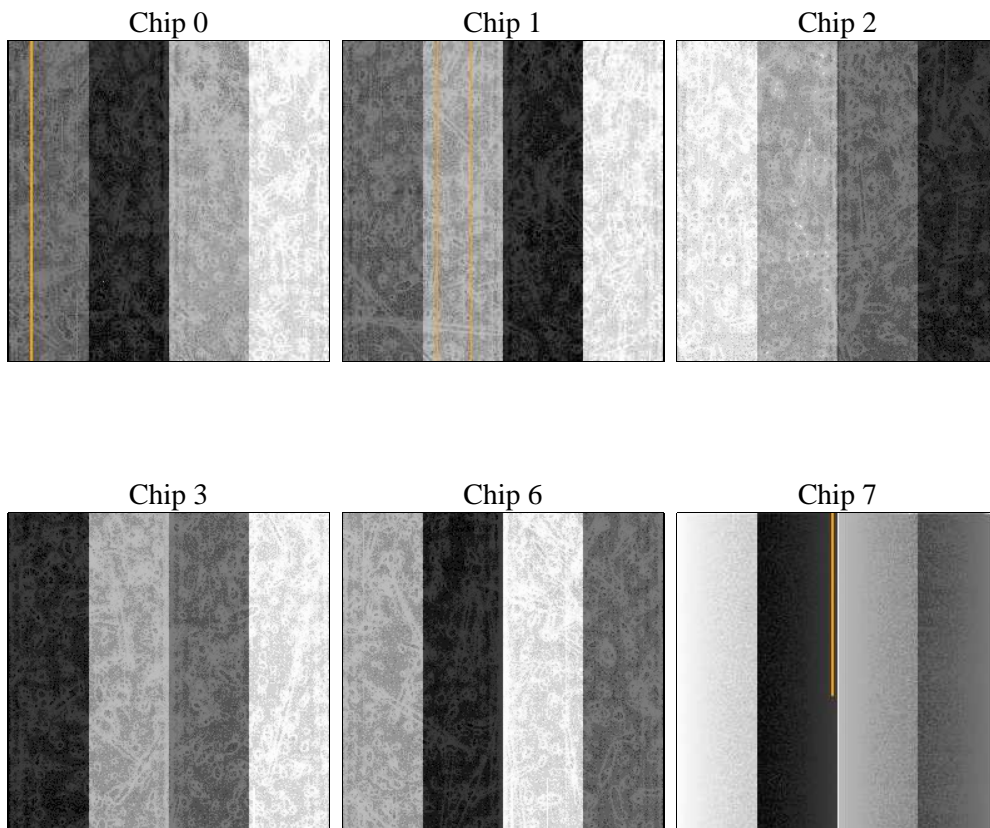
2 OBI

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 | 8.5.1 | Processing system revision | ontime | 8274.9799187779 | Sum of GTIs [s] |
| caldsver | 4.5.5 | | ontime0 | 7383.022234428 | Sum of GTIs [s] |
| date | 2012-12-17T09:50:01 | Date and time of file creation | ontime1 | 7487.3410461545 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 7101.0572591126 | Sum of GTIs [s] |
| | | | ontime3 | 7282.5521337986 | Sum of GTIs [s] |
| | | | ontime6 | 7616.3723056614 | Sum of GTIs [s] |
| | | | ontime7 | 8274.9799187779 | Sum of GTIs [s] |
| | | | l1events | 1492919 | 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 | 238878 | 239996 | 231400 | 240118 | 258982 | 283545 | grade 0 events | 103592 | 104338 | 102352 | 105414 | 110409 | 56156 |
| rejected events | 50764 | 48834 | 48446 | 51615 | 55278 | 49160 | | 43% | 43% | 44% | 43% | 42% | 19% |
| rejected % | 21% | 20% | 20% | 21% | 21% | 17% | grade 1 events | 550 | 528 | 610 | 653 | 541 | 174 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 33123 | 34389 | 30877 | 32205 | 35556 | 51208 |
| | | | | | | | | 13% | 14% | 13% | 13% | 13% | 18% |
| | | | | | | | grade 3 events | 12160 | 12230 | 12092 | 12458 | 12715 | 23303 |
| | | | | | | | | 5% | 5% | 5% | 5% | 4% | 8% |
| | | | | | | | grade 4 events | 12187 | 12228 | 11936 | 12436 | 12658 | 23062 |
| | | | | | | | | 5% | 5% | 5% | 5% | 4% | 8% |
| | | | | | | | grade 5 events | 3194 | 3163 | 2897 | 3370 | 3542 | 8842 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 6 events | 27233 | 28255 | 25840 | 26146 | 32562 | 80922 |
| | | | | | | | | 11% | 11% | 11% | 10% | 12% | 28% |
| | | | | | | | grade 7 events | 46839 | 44865 | 44796 | 47436 | 50999 | 39878 |
| | | | | | | | | 19% | 18% | 19% | 19% | 19% | 14% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012367 | ACIS-012367 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | On-chip summing requested | N | N |
| Observation mode | SECONDARY | SECONDARY | Subarray requested | NONE | NONE |
| [deg] Pointing RA | 0 | 131.411577489728 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 17.37349529506986 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 257.5145873679247 | | | |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | -233.592463 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 224378490.0929 | 224378489.06791 | | | |
| Observation start date | 2005-02-09T23:21:30 | 2005-02-09T23:21:29 | | | |
| [s] Observation end time (MET) | 224401689.943949 | 224401688.91896 | | | |
| Observation end date | 2005-02-10T05:48:10 | 2005-02-10T05:48:08 | | | |
| 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) | 2013.01.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2749799187779 |

A.2 Comments