

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 61224 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 5 2012

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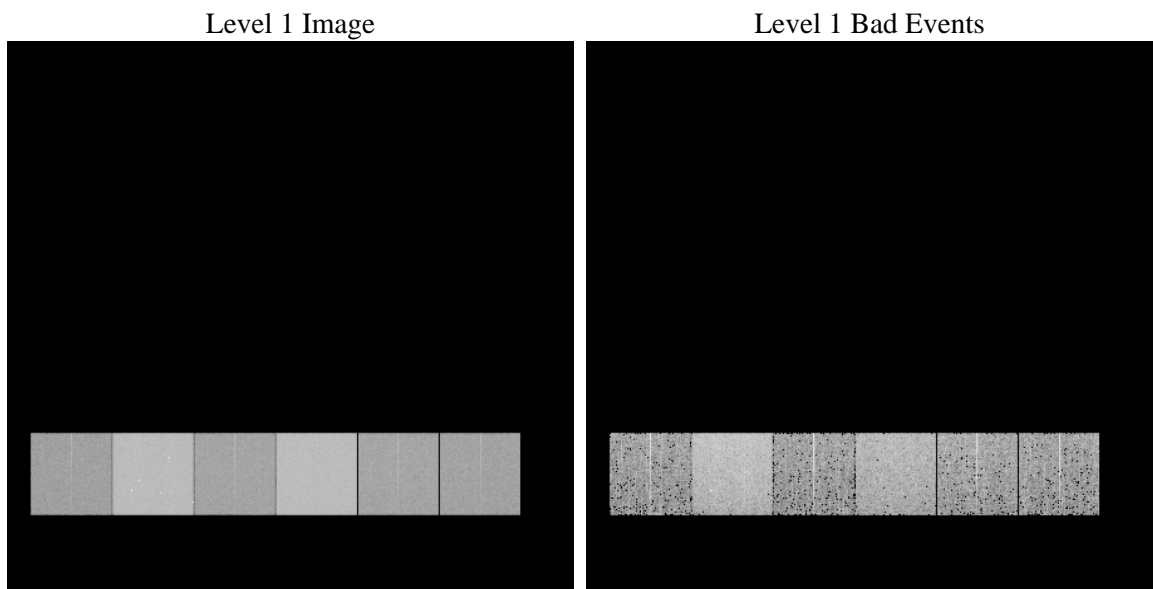
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 61224 | Observation id |
| title | ACIS-456789 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 | 181.00132470345 | Nominal RA [deg] |
| dec_nom | 4.9713978744118 | Nominal Dec [deg] |
| roll_nom | 239.87213007709 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 6730.8892490268 | Sum of GTIs [s] |
| livetime | 6645.6586765007 | Livetime [s] |
| ontime4 | 2550.6958630979 | Sum of GTIs [s] |
| ontime5 | 7265.6080524325 | Sum of GTIs [s] |
| ontime6 | 2793.7732049227 | Sum of GTIs [s] |
| ontime7 | 6730.8892490268 | Sum of GTIs [s] |
| ontime8 | 2842.3892632723 | Sum of GTIs [s] |
| ontime9 | 2679.6921329796 | Sum of GTIs [s] |
| l2events | 1230188 | Number of level 2 events |

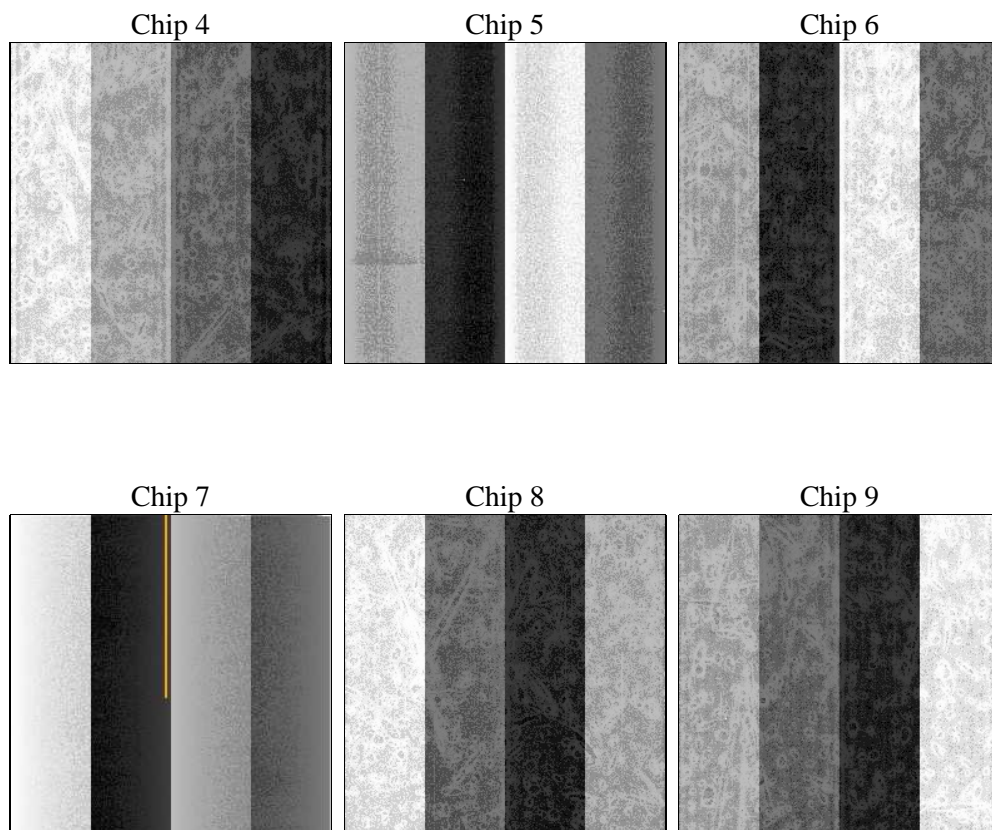
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 3 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 6730.8892490268 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime4 | 2550.6958630979 | Sum of GTIs [s] |
| date | 2012-10-05T20:55:49 | Date and time of file creation | ontime5 | 7265.6080524325 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 2793.7732049227 | Sum of GTIs [s] |
| | | | ontime7 | 6730.8892490268 | Sum of GTIs [s] |
| | | | ontime8 | 2842.3892632723 | Sum of GTIs [s] |
| | | | ontime9 | 2679.6921329796 | Sum of GTIs [s] |
| | | | l1events | 1449650 | Number of level 1 events |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 | | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|-------|--------|-------|--------|-------|-------|
| level 1 events | 148630 | 392536 | 172056 | 397836 | 177742 | 160850 | grade 0 events | 72714 | 88180 | 83150 | 93072 | 85185 | 76995 |
| rejected events | 19849 | 47300 | 19539 | 34421 | 22575 | 20276 | | 48% | 22% | 48% | 23% | 47% | 47% |
| rejected % | 13% | 12% | 11% | 8% | 12% | 12% | grade 1 events | 399 | 352 | 395 | 233 | 402 | 381 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 22857 | 118776 | 26585 | 80488 | 27481 | 24547 |
| | | | | | | | | 15% | 30% | 15% | 20% | 15% | 15% |
| | | | | | | | grade 3 events | 7882 | 23076 | 9501 | 37015 | 9853 | 8693 |
| | | | | | | | | 5% | 5% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 4 events | 7933 | 22838 | 9424 | 36517 | 9758 | 8740 |
| | | | | | | | | 5% | 5% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 5 events | 1208 | 8700 | 1487 | 7132 | 1657 | 1514 |
| | | | | | | | | 0% | 2% | 0% | 1% | 0% | 0% |
| | | | | | | | grade 6 events | 17395 | 92366 | 23857 | 116323 | 22890 | 21599 |
| | | | | | | | | 11% | 23% | 13% | 29% | 12% | 13% |
| | | | | | | | grade 7 events | 18242 | 38248 | 17657 | 27056 | 20516 | 18381 |
| | | | | | | | | 12% | 9% | 10% | 6% | 11% | 11% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-456789 | ACIS-456789 | 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 | 181.0013247034464 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 4.971397874411823 | [s] Primary exposure time | 0.000000 | 3.2 |
| [deg] Pointing Roll | 0.0 | 239.8721300770877 | | | |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.8505141146731063 | | | |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 136158923.65 | 136158922.62574 | | | |
| Observation start date | 2002-04-25T21:55:24 | 2002-04-25T21:55:22 | | | |
| [s] Observation end time (MET) | 136169194.151 | 136169193.12615 | | | |
| Observation end date | 2002-04-26T00:46:34 | 2002-04-26T00:46:33 | | | |
| 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) | 2012.10.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.7308892490268 |

A.2 Comments