

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 55370 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 11 2012

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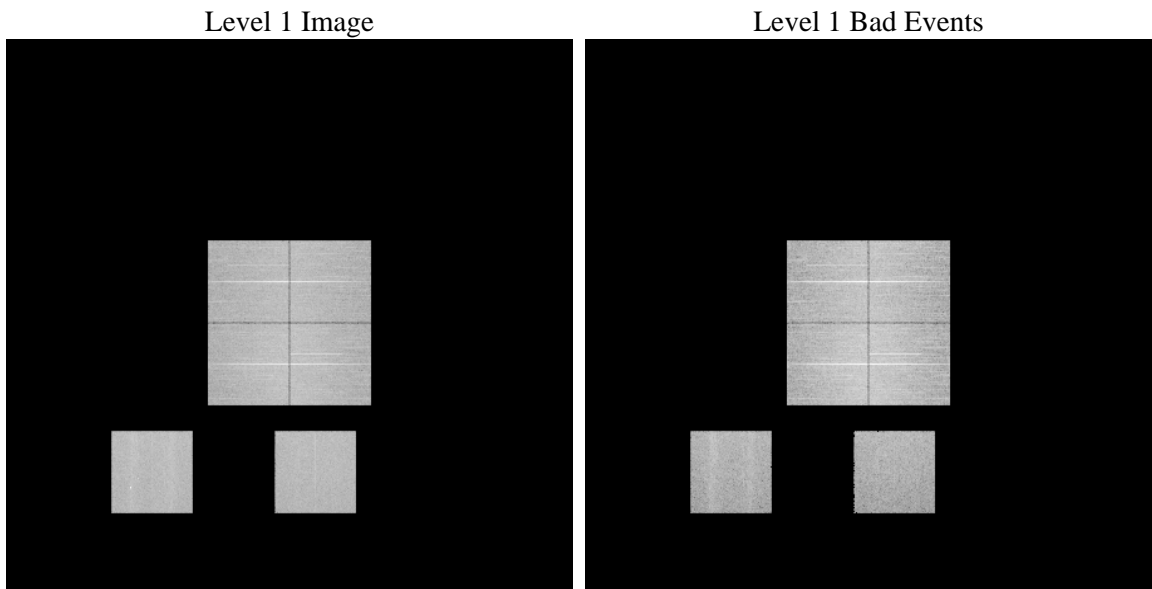
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 55370 | 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 | 266.02127877118 | Nominal RA [deg] |
| dec_nom | -48.269988067014 | Nominal Dec [deg] |
| roll_nom | 22.678248343041 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8252.7999693155 | Sum of GTIs [s] |
| livetime | 8148.2980468645 | Livetime [s] |
| ontime0 | 8249.5589491129 | Sum of GTIs [s] |
| ontime1 | 8252.7999693155 | Sum of GTIs [s] |
| ontime2 | 8252.7999693155 | Sum of GTIs [s] |
| ontime3 | 8252.7999693155 | Sum of GTIs [s] |
| ontime5 | 8252.7999693155 | Sum of GTIs [s] |
| ontime7 | 8252.7999693155 | Sum of GTIs [s] |
| l2events | 412062 | Number of level 2 events |

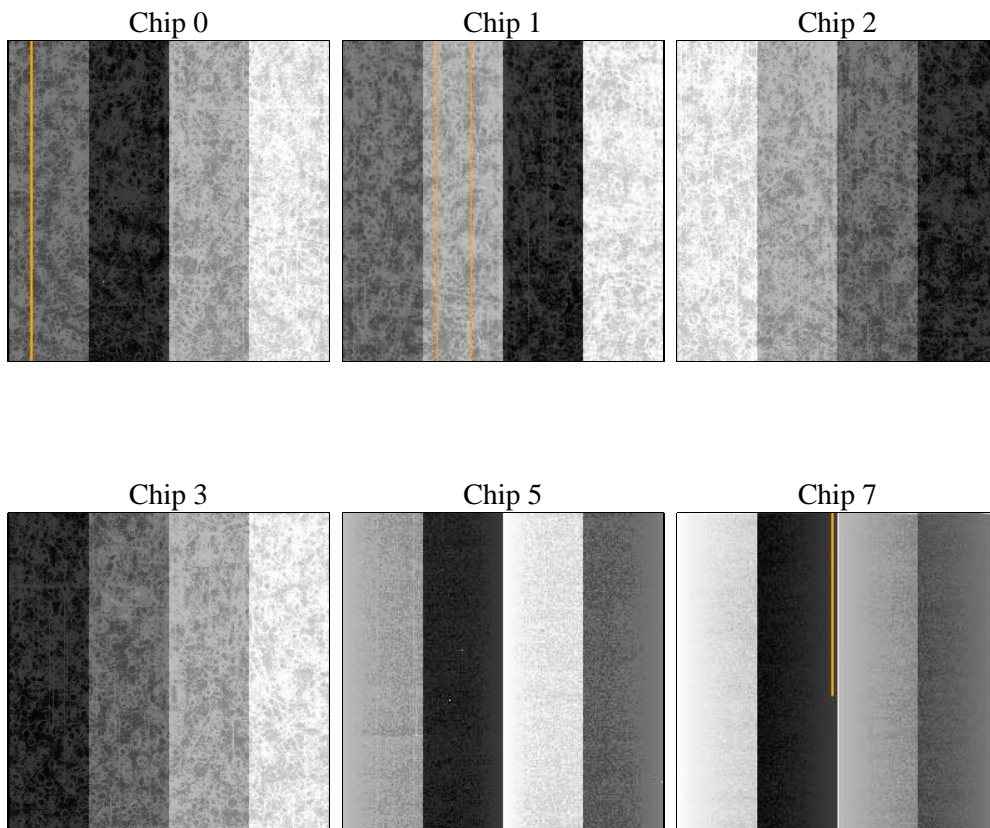
2 OBI

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 | 8252.7999693155 | Sum of GTIs [s] |
| caldsver | 4.4.7 | | ontime0 | 8249.5589491129 | Sum of GTIs [s] |
| date | 2012-02-11T20:22:10 | Date and time of file creation | ontime1 | 8252.7999693155 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 8252.7999693155 | Sum of GTIs [s] |
| | | | ontime3 | 8252.7999693155 | Sum of GTIs [s] |
| | | | ontime5 | 8252.7999693155 | Sum of GTIs [s] |
| | | | ontime7 | 8252.7999693155 | Sum of GTIs [s] |
| | | | l1events | 1043480 | 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 | 167059 | 165860 | 181097 | 182163 | 179074 | 168227 | grade 0 events | 30258 | 29010 | 30454 | 31047 | 11687 | 15780 |
| rejected events | 109871 | 108500 | 125270 | 125443 | 71890 | 66286 | | 18% | 17% | 16% | 17% | 6% | 9% |
| rejected % | 65% | 65% | 69% | 68% | 40% | 39% | grade 1 events | 339 | 250 | 355 | 345 | 591 | 239 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 10659 | 11711 | 9641 | 9819 | 41290 | 24607 |
| | | | | | | | | 6% | 7% | 5% | 5% | 23% | 14% |
| | | | | | | | grade 3 events | 3989 | 3900 | 3920 | 3855 | 5025 | 8546 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 5% |
| | | | | | | | grade 4 events | 3865 | 3836 | 3819 | 3873 | 4934 | 8427 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 5% |
| | | | | | | | grade 5 events | 3495 | 3630 | 3324 | 3821 | 9127 | 10223 |
| | | | | | | | | 2% | 2% | 1% | 2% | 5% | 6% |
| | | | | | | | grade 6 events | 8439 | 8927 | 8017 | 8139 | 44298 | 44616 |
| | | | | | | | | 5% | 5% | 4% | 4% | 24% | 26% |
| | | | | | | | grade 7 events | 106015 | 104596 | 121567 | 121264 | 62122 | 55789 |
| | | | | | | | | 63% | 63% | 67% | 66% | 34% | 33% |

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 | 266.0212787711823 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -48.26998806701393 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 22.67824834304091 | [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) | 423834479.065272 | 423834478.04027 | | | |
| Observation start date | 2011-06-07T11:47:59 | 2011-06-07T11:47:58 | | | |
| [s] Observation end time (MET) | 423846984.065923 | 423846983.04092 | | | |
| Observation end date | 2011-06-07T15:16:24 | 2011-06-07T15:16:23 | | | |
| 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) | 2012.02.14 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2527999693155 |

A.2 Comments