

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 55598 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 6 2012

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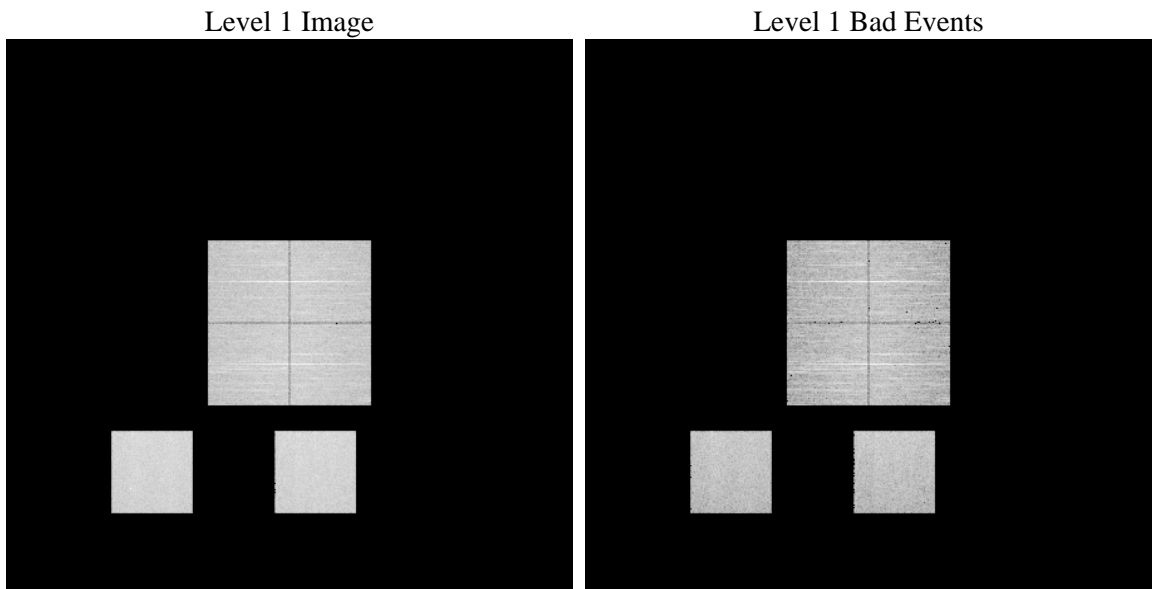
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 55598 | 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 | 187.95664424618 | Nominal RA [deg] |
| dec_nom | 6.6935620257907 | Nominal Dec [deg] |
| roll_nom | 99.986135830376 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8014.6172095537 | Sum of GTIs [s] |
| livetime | 7913.1313006232 | Livetime [s] |
| ontime0 | 8014.5761695504 | Sum of GTIs [s] |
| ontime1 | 8014.5351295471 | Sum of GTIs [s] |
| ontime2 | 8014.4940895438 | Sum of GTIs [s] |
| ontime3 | 8014.658249557 | Sum of GTIs [s] |
| ontime5 | 8014.4530495405 | Sum of GTIs [s] |
| ontime7 | 8014.6172095537 | Sum of GTIs [s] |
| l2events | 346308 | Number of level 2 events |

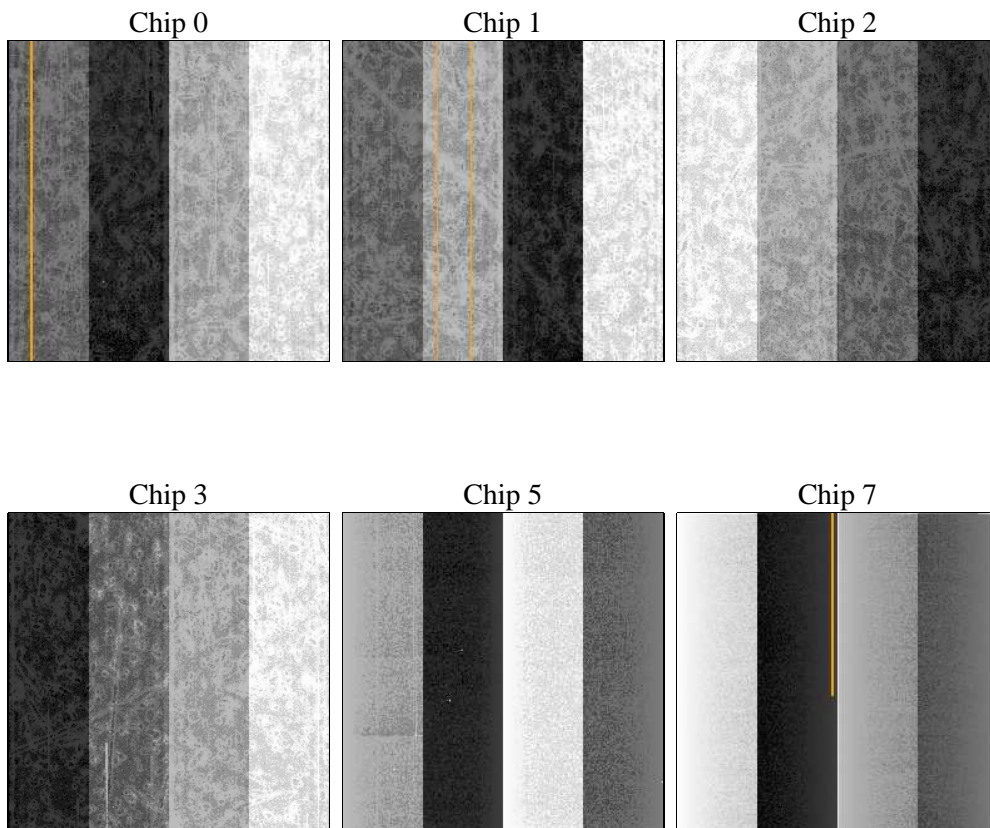
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 8014.6172095537 | Sum of GTIs [s] |
| caldsver | 4.4.7 | | ontime0 | 8014.5761695504 | Sum of GTIs [s] |
| date | 2012-02-06T09:04:38 | Date and time of file creation | ontime1 | 8014.5351295471 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 8014.4940895438 | Sum of GTIs [s] |
| | | | ontime3 | 8014.658249557 | Sum of GTIs [s] |
| | | | ontime5 | 8014.4530495405 | Sum of GTIs [s] |
| | | | ontime7 | 8014.6172095537 | Sum of GTIs [s] |
| | | | l1events | 737088 | 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 | 107670 | 110917 | 113635 | 114125 | 146230 | 144511 | grade 0 events | 27380 | 26760 | 28026 | 28342 | 8839 | 13893 |
| rejected events | 57437 | 59887 | 63507 | 63267 | 65409 | 64525 | | 25% | 24% | 24% | 24% | 6% | 9% |
| rejected % | 53% | 53% | 55% | 55% | 44% | 44% | grade 1 events | 163 | 150 | 189 | 181 | 164 | 118 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 9463 | 10381 | 8802 | 9121 | 30629 | 18160 |
| | | | | | | | | 8% | 9% | 7% | 7% | 20% | 12% |
| | | | | | | | grade 3 events | 3515 | 3474 | 3600 | 3619 | 3254 | 7272 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 5% |
| | | | | | | | grade 4 events | 3499 | 3519 | 3657 | 3673 | 3185 | 7112 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 4% |
| | | | | | | | grade 5 events | 3481 | 3501 | 3401 | 3750 | 7480 | 9343 |
| | | | | | | | | 3% | 3% | 2% | 3% | 5% | 6% |
| | | | | | | | grade 6 events | 8102 | 8487 | 7736 | 7747 | 37583 | 36198 |
| | | | | | | | | 7% | 7% | 6% | 6% | 25% | 25% |
| | | | | | | | grade 7 events | 52067 | 54645 | 58224 | 57692 | 55096 | 52415 |
| | | | | | | | | 48% | 49% | 51% | 50% | 37% | 36% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012357 | ACIS-012357 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 187.9566442461772 |
| [deg] Pointing Dec | 0 | 6.693562025790707 |
| [deg] Pointing Roll | 0.0 | 99.98613583037587 |
| [mm] SIM focus pos | -1.4281808131 | -1.4281808131 |
| [mm] SIM defocus | 0.1051557500557434 | 0.1051557500557434 |
| [mm] SIM translation stage pos | 250.4660330802 | 250.4660330802 |
| [mm] SIM translation stage offset | -0.01005726120527584 | -0.01005726120527584 |
| [s] Observation start time (MET) | 416299855.374255 | 416299855.374255 |
| Observation start date | 2011-03-12T06:50:55 | 2011-03-12T06:50:55 |
| [s] Observation end time (MET) | 416309672.004904 | 416309672.004904 |
| Observation end date | 2011-03-12T09:34:32 | 2011-03-12T09:34:32 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|----------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | OVERRIDE | OVERRIDE |
| Number of optional ACIS chips dropped | 0 | 0 |
| On-chip summing requested | N | N |
| Subarray requested | NONE | NONE |
| Alternating exposures requested | N | N |
| [s] Primary exposure time | 3.2 | 3.2 |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.02.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.0146172095537 |

A.2 Comments