

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 55005 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 28 2012

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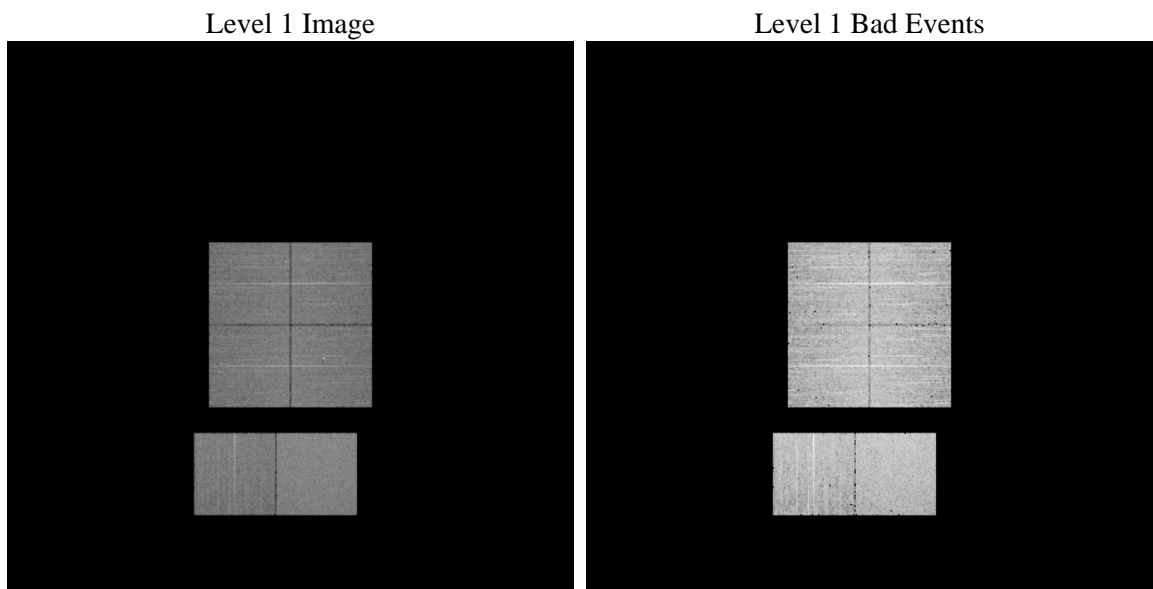
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 55005 | 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 | 74.025088840536 | Nominal RA [deg] |
| dec_nom | -2.985669128183 | Nominal Dec [deg] |
| roll_nom | 356.76986288071 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 7215.9999731779 | Sum of GTIs [s] |
| livetime | 7124.626636564 | Livetime [s] |
| ontime0 | 7215.9999731779 | Sum of GTIs [s] |
| ontime1 | 7215.9999731779 | Sum of GTIs [s] |
| ontime2 | 7215.9999731779 | Sum of GTIs [s] |
| ontime3 | 7215.9999731779 | Sum of GTIs [s] |
| ontime6 | 7215.9999731779 | Sum of GTIs [s] |
| ontime7 | 7215.9999731779 | Sum of GTIs [s] |
| l2events | 247655 | Number of level 2 events |

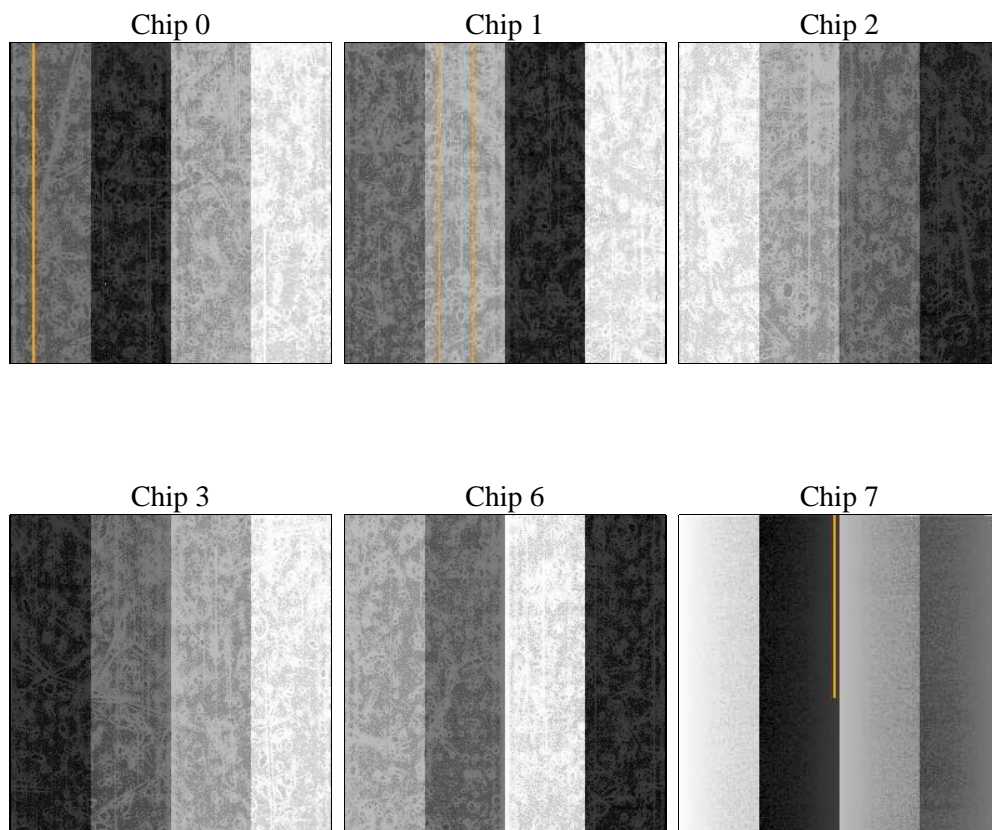
2 OBI

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 | 7215.9999731779 | Sum of GTIs [s] |
| caldbver | 4.4.8 | | ontime0 | 7215.9999731779 | Sum of GTIs [s] |
| date | 2012-02-28T04:31:02 | Date and time of file creation | ontime1 | 7215.9999731779 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 7215.9999731779 | Sum of GTIs [s] |
| | | | ontime3 | 7215.9999731779 | Sum of GTIs [s] |
| | | | ontime6 | 7215.9999731779 | Sum of GTIs [s] |
| | | | ontime7 | 7215.9999731779 | Sum of GTIs [s] |
| | | | l1events | 558021 | 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 | 85454 | 86159 | 86457 | 91609 | 89327 | 119015 | grade 0 events | 20876 | 20572 | 21318 | 23701 | 21356 | 10826 |
| rejected events | 45688 | 46666 | 47518 | 49956 | 48825 | 54016 | | 24% | 23% | 24% | 25% | 23% | 9% |
| rejected % | 53% | 54% | 54% | 54% | 54% | 45% | grade 1 events | 107 | 100 | 141 | 151 | 118 | 87 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 8044 | 7878 | 6944 | 7152 | 7492 | 14289 |
| | | | | | | | | 9% | 9% | 8% | 7% | 8% | 12% |
| | | | | | | | grade 3 events | 2801 | 2682 | 2810 | 2716 | 2673 | 5831 |
| | | | | | | | | 3% | 3% | 3% | 2% | 2% | 4% |
| | | | | | | | grade 4 events | 2660 | 2641 | 2766 | 2787 | 2670 | 5929 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 4% |
| | | | | | | | grade 5 events | 3037 | 3133 | 2913 | 3425 | 3315 | 8271 |
| | | | | | | | | 3% | 3% | 3% | 3% | 3% | 6% |
| | | | | | | | grade 6 events | 6103 | 6426 | 5881 | 6036 | 7005 | 29316 |
| | | | | | | | | 7% | 7% | 6% | 6% | 7% | 24% |
| | | | | | | | grade 7 events | 41826 | 42727 | 43684 | 45641 | 44698 | 44466 |
| | | | | | | | | 48% | 49% | 50% | 49% | 50% | 37% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 74.02508884053583 |
| [deg] Pointing Dec | 0 | -2.985669128182971 |
| [deg] Pointing Roll | 0.0 | 356.7698628807055 |
| SIM focus pos (mm) | -1.4281808131 | -1.4281808131 |
| [mm] SIM defocus | 0.1051557500557434 | 0.1051557500557434 |
| SIM translation stage pos (mm) | 250.4660330802 | 250.4660330802 |
| [mm] SIM translation stage offset | -0.01005726120527584 | -0.01005726120527584 |
| [s] Observation start time (MET) | 439802331.117292 | 439802331.117292 |
| Observation start date | 2011-12-09T07:18:51 | 2011-12-09T07:18:51 |
| [s] Observation end time (MET) | 439810934.183096 | 439810934.183096 |
| Observation end date | 2011-12-09T09:42:14 | 2011-12-09T09:42:14 |
| 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 | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.02.29 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.2159999731779 |

A.2 Comments