

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 56119 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 30 2012

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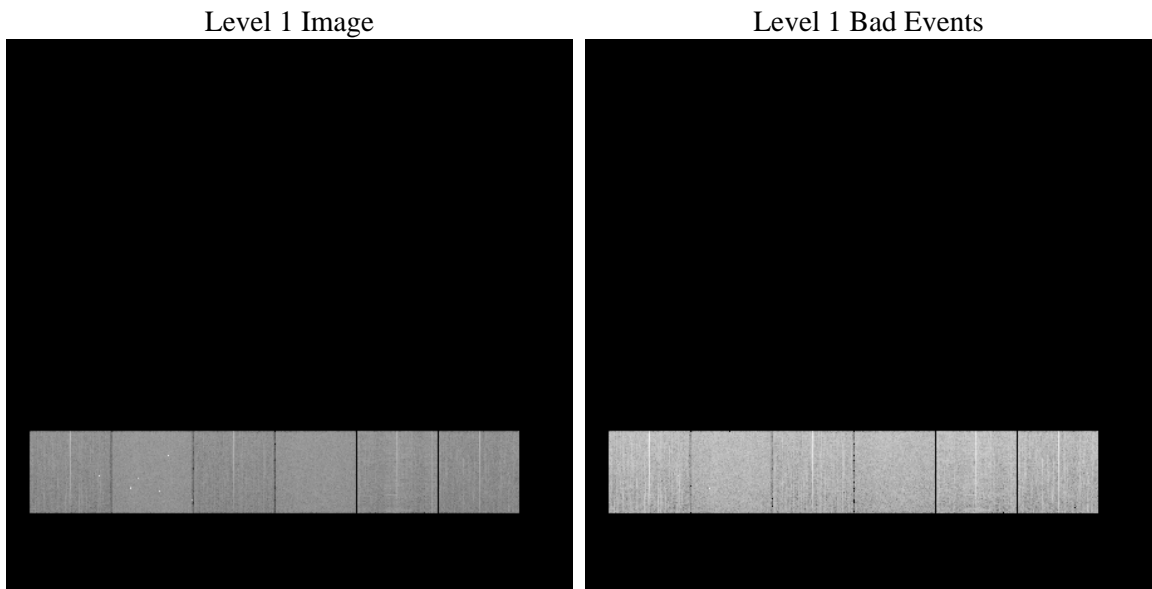
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 56119 | 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 | 320.01003595685 | Nominal RA [deg] |
| dec_nom | -35.970195553666 | Nominal Dec [deg] |
| roll_nom | 61.477001527427 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 7996.7999702692 | Sum of GTIs [s] |
| livetime | 7895.5396739508 | Livetime [s] |
| ontime4 | 7993.5589600801 | Sum of GTIs [s] |
| ontime5 | 7996.7999702692 | Sum of GTIs [s] |
| ontime6 | 7996.7999702692 | Sum of GTIs [s] |
| ontime7 | 7996.7999702692 | Sum of GTIs [s] |
| ontime8 | 7993.5589799881 | Sum of GTIs [s] |
| ontime9 | 7993.5589998364 | Sum of GTIs [s] |
| l2events | 405894 | Number of level 2 events |

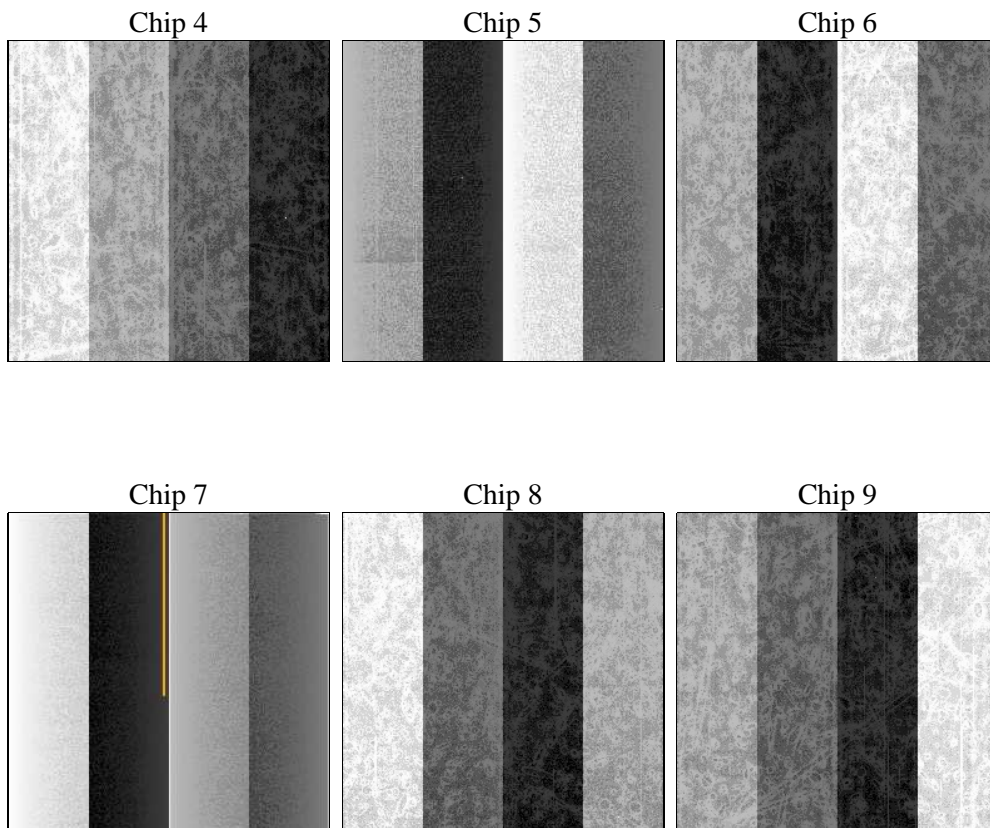
2 OBI

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 | 8.4.5 | Processing system revision | ontime | 7996.7999702692 | Sum of GTIs [s] |
| caldsver | 4.5.0 | | ontime4 | 7993.5589600801 | Sum of GTIs [s] |
| date | 2012-06-30T05:28:00 | Date and time of file creation | ontime5 | 7996.7999702692 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 7996.7999702692 | Sum of GTIs [s] |
| | | | ontime7 | 7996.7999702692 | Sum of GTIs [s] |
| | | | ontime8 | 7993.5589799881 | Sum of GTIs [s] |
| | | | ontime9 | 7993.5589998364 | Sum of GTIs [s] |
| | | | l1events | 896335 | 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 | 137890 | 171570 | 134581 | 163126 | 155879 | 133289 | grade 0 events | 35347 | 15242 | 33069 | 16941 | 37060 | 32589 |
| rejected events | 78436 | 73475 | 73091 | 69542 | 81171 | 73853 | | 25% | 8% | 24% | 10% | 23% | 24% |
| rejected % | 56% | 42% | 54% | 42% | 52% | 55% | grade 1 events | 345 | 220 | 192 | 122 | 235 | 233 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 9684 | 35337 | 11709 | 21038 | 14542 | 11044 |
| | | | | | | | | 7% | 20% | 8% | 12% | 9% | 8% |
| | | | | | | | grade 3 events | 4323 | 4389 | 4235 | 8869 | 5906 | 4155 |
| | | | | | | | | 3% | 2% | 3% | 5% | 3% | 3% |
| | | | | | | | grade 4 events | 4224 | 4332 | 4176 | 8865 | 5759 | 4129 |
| | | | | | | | | 3% | 2% | 3% | 5% | 3% | 3% |
| | | | | | | | grade 5 events | 4179 | 9354 | 4414 | 10652 | 5528 | 4645 |
| | | | | | | | | 3% | 5% | 3% | 6% | 3% | 3% |
| | | | | | | | grade 6 events | 7959 | 42115 | 10559 | 41221 | 14153 | 9676 |
| | | | | | | | | 5% | 24% | 7% | 25% | 9% | 7% |
| | | | | | | | grade 7 events | 71829 | 60581 | 66227 | 55418 | 72696 | 66818 |
| | | | | | | | | 52% | 35% | 49% | 33% | 46% | 50% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-456789 | ACIS-456789 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 320.0100359568494 |
| [deg] Pointing Dec | 0 | -35.97019555366578 |
| [deg] Pointing Roll | 0.0 | 61.47700152742706 |
| [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) | 395701536.313672 | 395701536.313672 |
| Observation start date | 2010-07-16T21:05:36 | 2010-07-16T21:05:36 |
| [s] Observation end time (MET) | 395711084.78693 | 395711084.78693 |
| Observation end date | 2010-07-16T23:44:45 | 2010-07-16T23:44:44 |
| 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) | 2012.07.09 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.9967999702692 |

A.2 Comments