

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 54411 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Aug 14 2012

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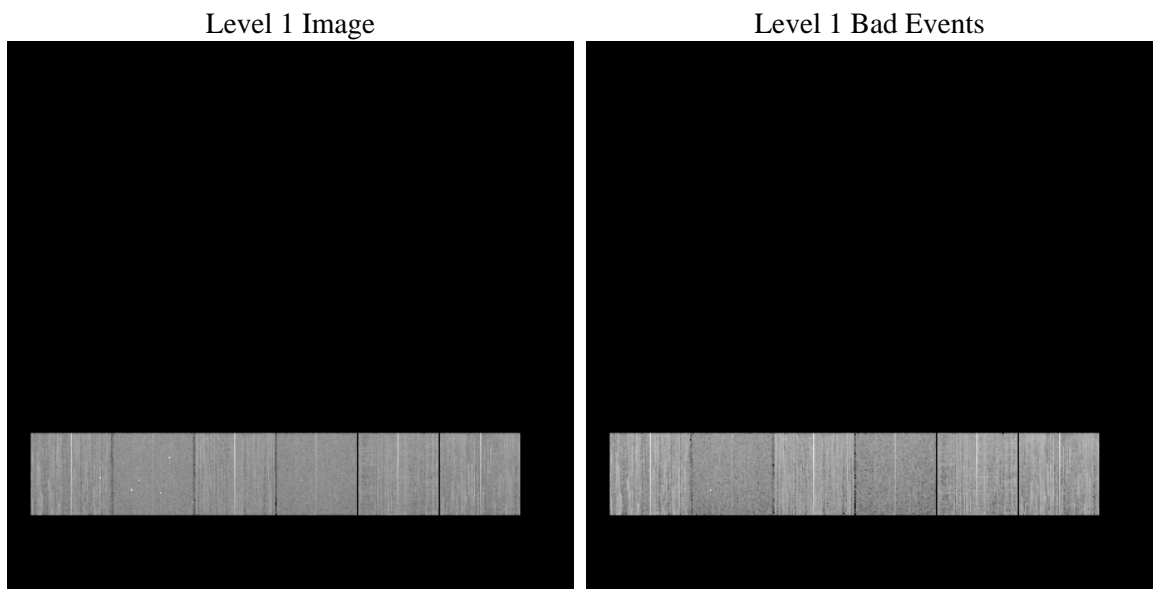
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 54411 | 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 | 312.88522911898 | Nominal RA [deg] |
| dec_nom | 0.18218188699983 | Nominal Dec [deg] |
| roll_nom | 215.93695288127 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8172.7999696136 | Sum of GTIs [s] |
| livetime | 8069.311055329 | Livetime [s] |
| ontime4 | 8172.7999696136 | Sum of GTIs [s] |
| ontime5 | 8172.7999696136 | Sum of GTIs [s] |
| ontime6 | 8172.7999696136 | Sum of GTIs [s] |
| ontime7 | 8172.7999696136 | Sum of GTIs [s] |
| ontime8 | 8172.7999696136 | Sum of GTIs [s] |
| ontime9 | 8172.7999696136 | Sum of GTIs [s] |
| l2events | 302105 | Number of level 2 events |

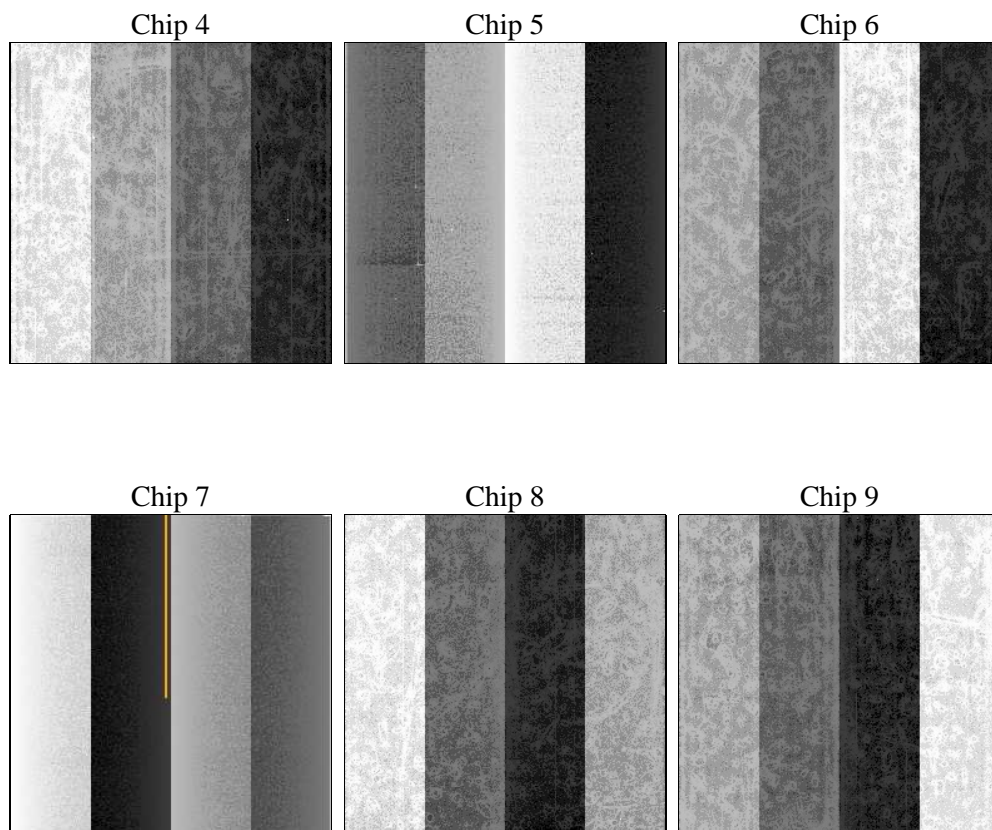
2 OBI

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 | 8172.7999696136 | Sum of GTIs [s] |
| caldsver | 4.5.1.1 | | ontime4 | 8172.7999696136 | Sum of GTIs [s] |
| date | 2012-08-14T07:23:26 | Date and time of file creation | ontime5 | 8172.7999696136 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime6 | 8172.7999696136 | Sum of GTIs [s] |
| | | | ontime7 | 8172.7999696136 | Sum of GTIs [s] |
| | | | ontime8 | 8172.7999696136 | Sum of GTIs [s] |
| | | | ontime9 | 8172.7999696136 | Sum of GTIs [s] |
| | | | l1events | 979230 | 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 | 173569 | 148854 | 176438 | 137837 | 171990 | 170542 | grade 0 events | 25279 | 11745 | 23402 | 11797 | 25864 | 23089 |
| rejected events | 128514 | 74719 | 130261 | 68482 | 117473 | 125921 | | 14% | 7% | 13% | 8% | 15% | 13% |
| rejected % | 74% | 50% | 73% | 49% | 68% | 73% | grade 1 events | 211 | 227 | 100 | 96 | 147 | 120 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 8080 | 27544 | 9215 | 17273 | 10974 | 8626 |
| | | | | | | | | 4% | 18% | 5% | 12% | 6% | 5% |
| | | | | | | | grade 3 events | 3097 | 2928 | 3025 | 5931 | 4050 | 2888 |
| | | | | | | | | 1% | 1% | 1% | 4% | 2% | 1% |
| | | | | | | | grade 4 events | 3050 | 2782 | 2878 | 5782 | 3957 | 2949 |
| | | | | | | | | 1% | 1% | 1% | 4% | 2% | 1% |
| | | | | | | | grade 5 events | 3263 | 6821 | 3250 | 7874 | 4136 | 3560 |
| | | | | | | | | 1% | 4% | 1% | 5% | 2% | 2% |
| | | | | | | | grade 6 events | 6355 | 30304 | 8442 | 29646 | 10558 | 7858 |
| | | | | | | | | 3% | 20% | 4% | 21% | 6% | 4% |
| | | | | | | | grade 7 events | 124234 | 66503 | 126126 | 59438 | 112304 | 121452 |
| | | | | | | | | 71% | 44% | 71% | 43% | 65% | 71% |

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 | 312.8852291189788 |
| [deg] Pointing Dec | 0 | 0.182181886999829 |
| [deg] Pointing Roll | 0.0 | 215.9369528812652 |
| 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) | 461279867.578752 | 461279867.578752 |
| Observation start date | 2012-08-13T21:17:48 | 2012-08-13T21:17:47 |
| [s] Observation end time (MET) | 461289415.804323 | 461289415.804323 |
| Observation end date | 2012-08-13T23:56:56 | 2012-08-13T23:56:55 |
| 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 | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.08.14 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.1727999696136 |

A.2 Comments