

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 53191 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Dec 3 2013

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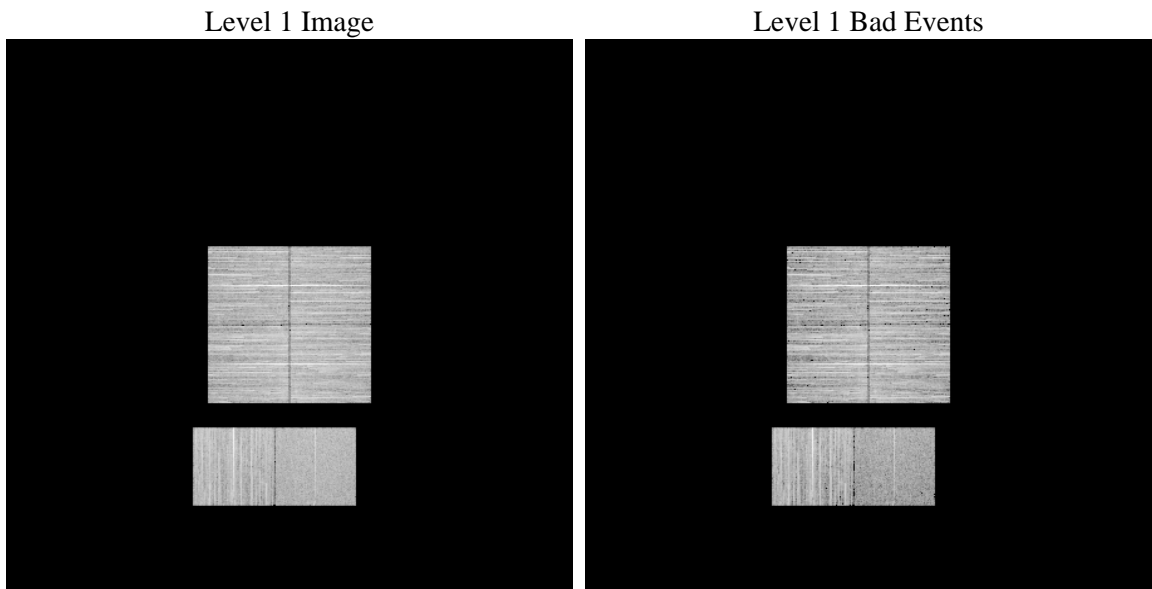
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 53191 | 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 | 45.297257362963 | Nominal RA [deg] |
| dec_nom | 28.281358464798 | Nominal Dec [deg] |
| roll_nom | 237.02244376527 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 5974.3999778032 | Sum of GTIs [s] |
| livetime | 5898.7485279325 | Livetime [s] |
| ontime0 | 5974.3999778032 | Sum of GTIs [s] |
| ontime1 | 5974.3999778032 | Sum of GTIs [s] |
| ontime2 | 5974.3999778032 | Sum of GTIs [s] |
| ontime3 | 5974.3999778032 | Sum of GTIs [s] |
| ontime6 | 5974.3999778032 | Sum of GTIs [s] |
| ontime7 | 5974.3999778032 | Sum of GTIs [s] |
| l2events | 135357 | Number of level 2 events |

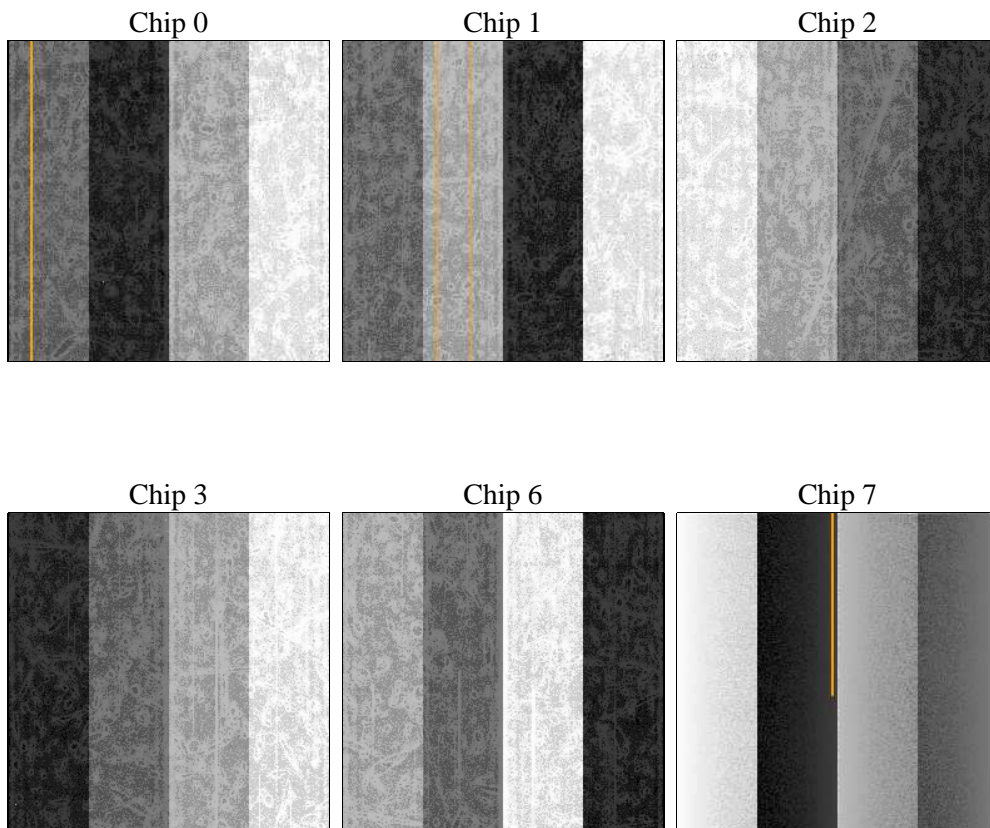
2 OBI

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 | 10.1.1 | Processing system revision | ontime | 5974.3999778032 | Sum of GTIs [s] |
| caldsver | 4.5.9 | | ontime0 | 5974.3999778032 | Sum of GTIs [s] |
| date | 2013-12-03T18:00:13 | Date and time of file creation | ontime1 | 5974.3999778032 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 5974.3999778032 | Sum of GTIs [s] |
| | | | ontime3 | 5974.3999778032 | Sum of GTIs [s] |
| | | | ontime6 | 5974.3999778032 | Sum of GTIs [s] |
| | | | ontime7 | 5974.3999778032 | Sum of GTIs [s] |
| | | | l1events | 617175 | 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 | 100640 | 102887 | 110718 | 111245 | 105815 | 85870 | grade 0 events | 10848 | 10630 | 11315 | 11173 | 10978 | 5704 |
| rejected events | 80159 | 81904 | 89725 | 90231 | 84206 | 47524 | | 10% | 10% | 10% | 10% | 10% | 6% |
| rejected % | 79% | 79% | 81% | 81% | 79% | 55% | grade 1 events | 51 | 68 | 49 | 59 | 49 | 58 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4220 | 4511 | 4241 | 4177 | 4447 | 9640 |
| | | | | | | | | 4% | 4% | 3% | 3% | 4% | 11% |
| | | | | | | | grade 3 events | 1419 | 1495 | 1493 | 1518 | 1482 | 3302 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1379 | 1488 | 1425 | 1486 | 1493 | 3233 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 2010 | 2057 | 1820 | 2301 | 2136 | 5296 |
| | | | | | | | | 1% | 1% | 1% | 2% | 2% | 6% |
| | | | | | | | grade 6 events | 3308 | 3554 | 3167 | 3299 | 3912 | 17664 |
| | | | | | | | | 3% | 3% | 2% | 2% | 3% | 20% |
| | | | | | | | grade 7 events | 77405 | 79084 | 87208 | 87232 | 81318 | 40973 |
| | | | | | | | | 76% | 76% | 78% | 78% | 76% | 47% |

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 | 45.29725736296317 |
| [deg] Pointing Dec | 0 | 28.28135846479795 |
| [deg] Pointing Roll | 0.0 | 237.0224437652668 |
| 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) | 502411213.306202 | 502411213.306202 |
| Observation start date | 2013-12-02T22:40:13 | 2013-12-02T22:40:13 |
| [s] Observation end time (MET) | 502417507.271547 | 502417507.271547 |
| Observation end date | 2013-12-03T00:25:07 | 2013-12-03T00:25:07 |
| 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) | 2013.12.03 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.9743999778032 |

A.2 Comments