

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 51868 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : May 27 2015

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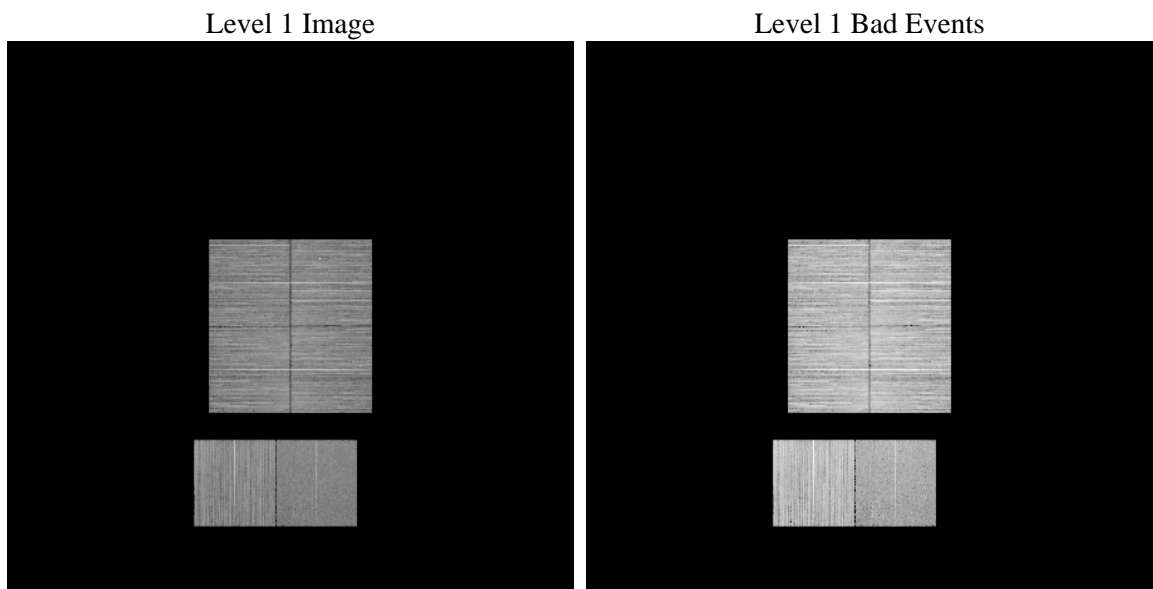
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51868 | Observation id |
| title | ACIS-012367 diagnostics | Proposal title |
| observer | CHANDRA engineering request/realtime commanding | Principal investig |
| object | | Source name |
| dtycle | 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 | 241.92800620993 | Nominal RA [deg] |
| dec_nom | -2.6550332038032 | Nominal Dec [deg] |
| roll_nom | 185.2696732237 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8044.5264583826 | Sum of GTIs [s] |
| livetime | 7942.6618205343 | Livetime [s] |
| ontime0 | 8044.4854183197 | Sum of GTIs [s] |
| ontime1 | 8044.444378376 | Sum of GTIs [s] |
| ontime2 | 8041.1624275446 | Sum of GTIs [s] |
| ontime3 | 8044.5674983263 | Sum of GTIs [s] |
| ontime6 | 8044.3622983694 | Sum of GTIs [s] |
| ontime7 | 8044.5264583826 | Sum of GTIs [s] |
| l2events | 147191 | Number of level 2 events |

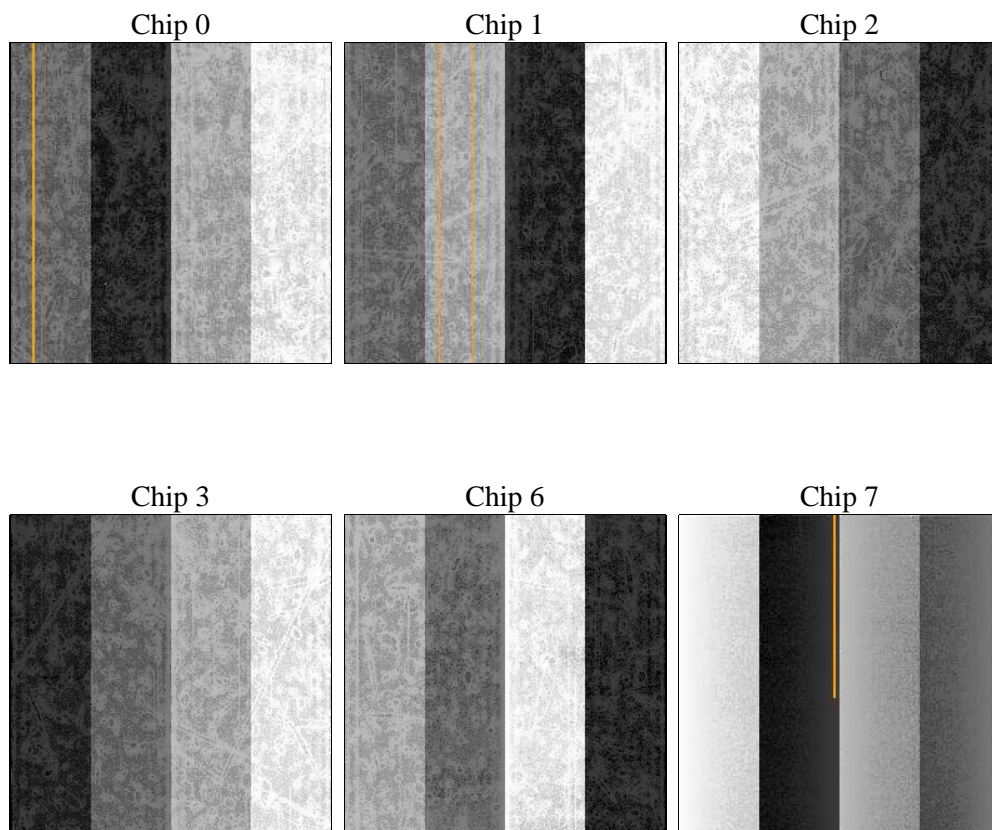
2 OBI

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 | 10.3.3 | Processing system revision | ontime | 8044.5264583826 | Sum of GTIs [s] |
| caldsver | 4.6.7 | | ontime0 | 8044.4854183197 | Sum of GTIs [s] |
| date | 2015-05-27T12:21:48 | Date and time of file creation | ontime1 | 8044.444378376 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 8041.1624275446 | Sum of GTIs [s] |
| | | | ontime3 | 8044.5674983263 | Sum of GTIs [s] |
| | | | ontime6 | 8044.3622983694 | Sum of GTIs [s] |
| | | | ontime7 | 8044.5264583826 | Sum of GTIs [s] |
| | | | l1events | 864955 | 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 | 139218 | 155342 | 150692 | 150460 | 152385 | 116858 | grade 0 events | 10734 | 12787 | 11156 | 11024 | 11023 | 6215 |
| rejected events | 117813 | 131270 | 129215 | 129143 | 129907 | 68909 | | 7% | 8% | 7% | 7% | 7% | 5% |
| rejected % | 84% | 84% | 85% | 85% | 85% | 58% | grade 1 events | 46 | 60 | 70 | 63 | 61 | 97 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4623 | 4961 | 4376 | 4296 | 4871 | 12203 |
| | | | | | | | | 3% | 3% | 2% | 2% | 3% | 10% |
| | | | | | | | grade 3 events | 1594 | 1553 | 1484 | 1594 | 1539 | 4025 |
| | | | | | | | | 1% | 0% | 0% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1552 | 1595 | 1612 | 1608 | 1615 | 3840 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 2827 | 2913 | 2645 | 3192 | 3022 | 7728 |
| | | | | | | | | 2% | 1% | 1% | 2% | 1% | 6% |
| | | | | | | | grade 6 events | 3573 | 3885 | 3494 | 3454 | 4106 | 23149 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 19% |
| | | | | | | | grade 7 events | 114269 | 127588 | 125855 | 125229 | 126148 | 59601 |
| | | | | | | | | 82% | 82% | 83% | 83% | 82% | 51% |

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 | 241.928006209929 |
| [deg] Pointing Dec | 0 | -2.655033203803216 |
| [deg] Pointing Roll | 0.0 | 185.2696732236983 |
| 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) | 549019197.942304 | 549019197.942304 |
| Observation start date | 2015-05-26T09:19:58 | 2015-05-26T09:19:57 |
| [s] Observation end time (MET) | 549028744.66723 | 549028744.66723 |
| Observation end date | 2015-05-26T11:59:05 | 2015-05-26T11:59:04 |
| 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) | 2015.05.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.0445264583826 |

A.2 Comments