

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 51310 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jan 25 2016

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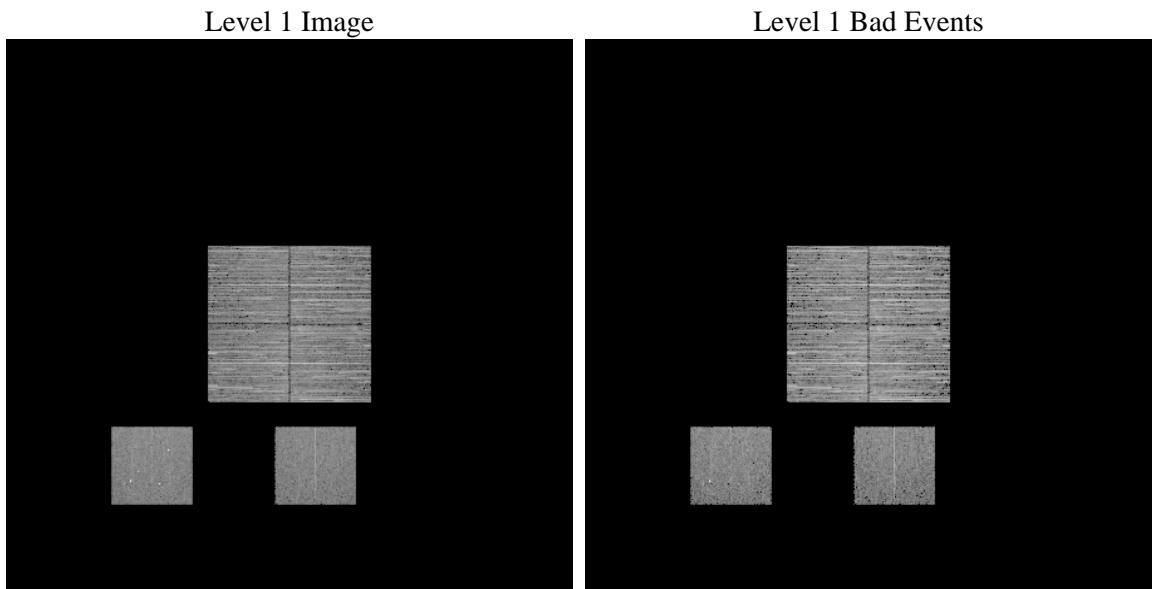
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51310 | Observation id |
| title | ACIS-012357 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 | 93.11864434249 | Nominal RA [deg] |
| dec_nom | 19.842927015457 | Nominal Dec [deg] |
| roll_nom | 274.69217305908 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 3302.4000492096 | Sum of GTIs [s] |
| livetime | 3260.5830713199 | Livetime [s] |
| ontime0 | 3302.4000492096 | Sum of GTIs [s] |
| ontime1 | 3302.4000492096 | Sum of GTIs [s] |
| ontime2 | 3302.4000492096 | Sum of GTIs [s] |
| ontime3 | 3302.4000492096 | Sum of GTIs [s] |
| ontime5 | 3302.4000492096 | Sum of GTIs [s] |
| ontime7 | 3302.4000492096 | Sum of GTIs [s] |
| l2events | 73434 | Number of level 2 events |

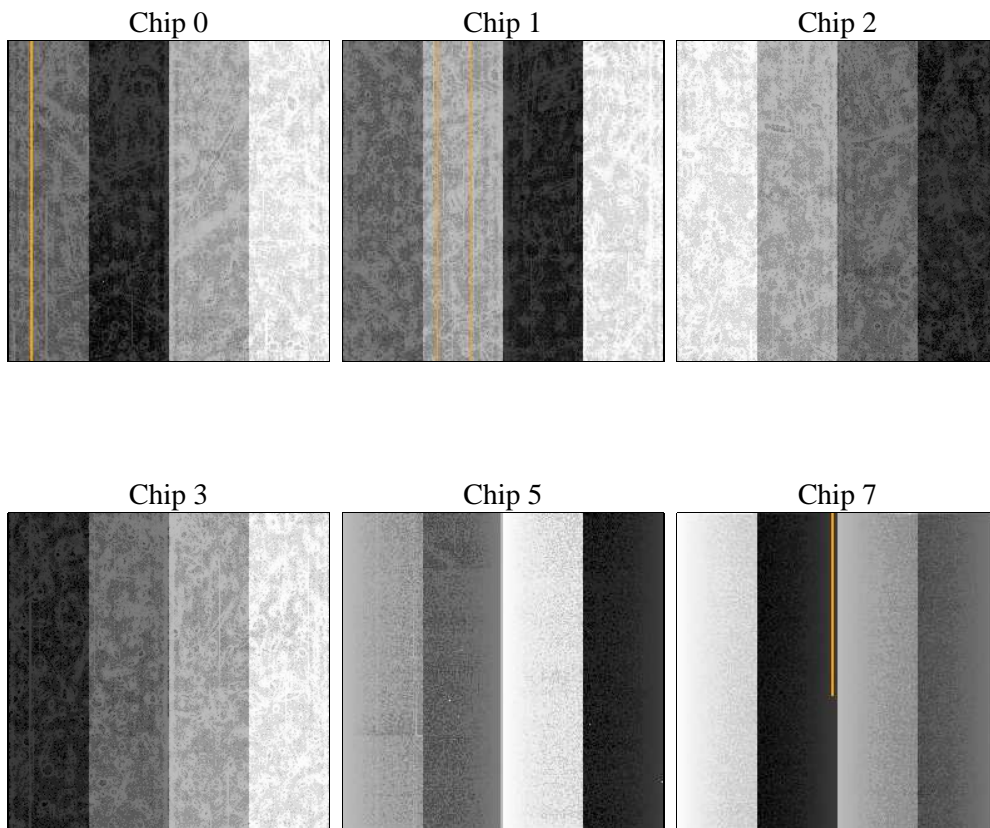
2 OBI

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 | 10.4.3 | Processing system revision | ontime | 3302.4000492096 | Sum of GTIs [s] |
| caldbver | 4.7.0 | | ontime0 | 3302.4000492096 | Sum of GTIs [s] |
| date | 2016-01-25T06:29:28 | Date and time of file creation | ontime1 | 3302.4000492096 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 3302.4000492096 | Sum of GTIs [s] |
| | | | ontime3 | 3302.4000492096 | Sum of GTIs [s] |
| | | | ontime5 | 3302.4000492096 | Sum of GTIs [s] |
| | | | ontime7 | 3302.4000492096 | Sum of GTIs [s] |
| | | | l1events | 394700 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 63671 | 69038 | 70887 | 72209 | 62762 | 56133 | grade 0 events | 4153 | 3902 | 4314 | 4222 | 3972 | 2426 |
| rejected events | 55285 | 60614 | 62417 | 63964 | 37322 | 35215 | | 6% | 5% | 6% | 5% | 6% | 4% |
| rejected % | 86% | 87% | 88% | 88% | 59% | 62% | grade 1 events | 41 | 23 | 31 | 42 | 79 | 43 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 1987 | 2140 | 1965 | 1785 | 9248 | 5516 |
| | | | | | | | | 3% | 3% | 2% | 2% | 14% | 9% |
| | | | | | | | grade 3 events | 676 | 653 | 650 | 632 | 740 | 1658 |
| | | | | | | | | 1% | 0% | 0% | 0% | 1% | 2% |
| | | | | | | | grade 4 events | 623 | 630 | 674 | 673 | 687 | 1568 |
| | | | | | | | | 0% | 0% | 0% | 0% | 1% | 2% |
| | | | | | | | grade 5 events | 1399 | 1345 | 1297 | 1486 | 2817 | 3595 |
| | | | | | | | | 2% | 1% | 1% | 2% | 4% | 6% |
| | | | | | | | grade 6 events | 1456 | 1648 | 1394 | 1448 | 12364 | 11047 |
| | | | | | | | | 2% | 2% | 1% | 2% | 19% | 19% |
| | | | | | | | grade 7 events | 53336 | 58697 | 60562 | 61921 | 32855 | 30280 |
| | | | | | | | | 83% | 85% | 85% | 85% | 52% | 53% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012357 | ACIS-012357 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 93.11864434249033 |
| [deg] Pointing Dec | 0 | 19.84292701545728 |
| [deg] Pointing Roll | 0.0 | 274.692173059077 |
| 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) | 570045074.11883 | 570045074.11883 |
| Observation start date | 2016-01-24T17:51:14 | 2016-01-24T17:51:14 |
| [s] Observation end time (MET) | 570048658.049614 | 570048658.049614 |
| Observation end date | 2016-01-24T18:50:58 | 2016-01-24T18:50:58 |
| 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) | 2016.01.25 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.3024000492096 |

A.2 Comments