

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 51049 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : May 7 2016

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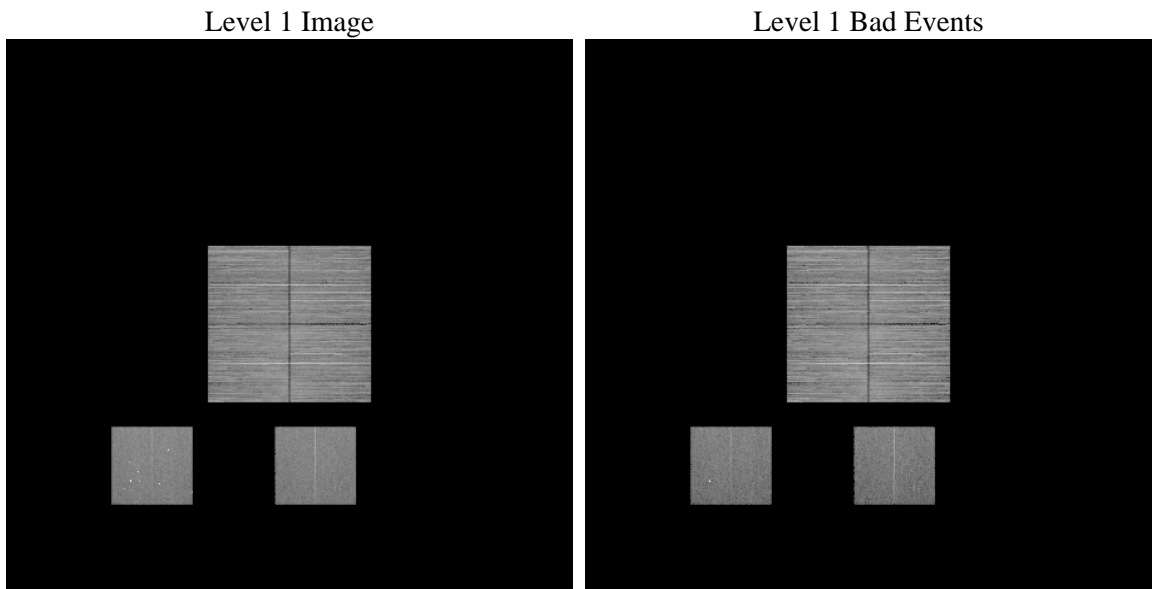
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51049 | 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 | 234.97336340662 | Nominal RA [deg] |
| dec_nom | -0.5888306837015 | Nominal Dec [deg] |
| roll_nom | 149.3902704587 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8163.2001216412 | Sum of GTIs [s] |
| livetime | 8059.8327664119 | Livetime [s] |
| ontime0 | 8163.2001216412 | Sum of GTIs [s] |
| ontime1 | 8163.2001216412 | Sum of GTIs [s] |
| ontime2 | 8163.2001216412 | Sum of GTIs [s] |
| ontime3 | 8163.2001216412 | Sum of GTIs [s] |
| ontime5 | 8163.2001216412 | Sum of GTIs [s] |
| ontime7 | 8163.2001216412 | Sum of GTIs [s] |
| l2events | 175022 | Number of level 2 events |

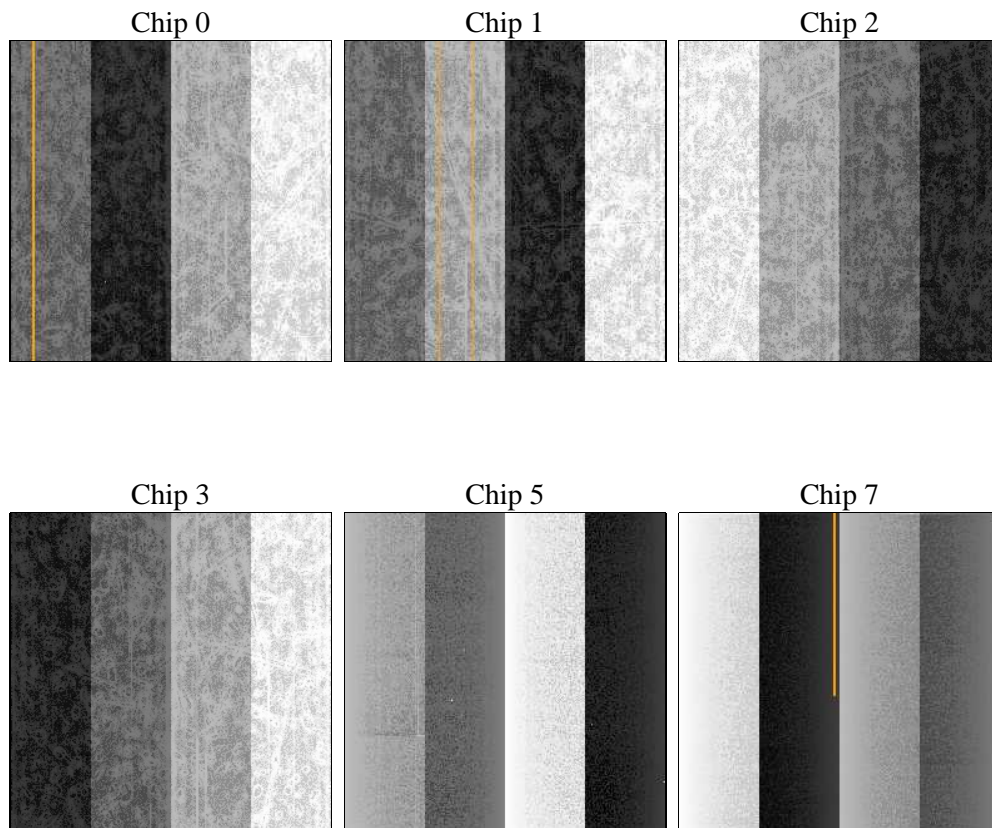
2 OBI

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 | 10.4.3.1 | Processing system revision | ontime | 8163.2001216412 | Sum of GTIs [s] |
| caldsver | 4.7.1 | | ontime0 | 8163.2001216412 | Sum of GTIs [s] |
| date | 2016-05-07T04:38:17 | Date and time of file creation | ontime1 | 8163.2001216412 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 8163.2001216412 | Sum of GTIs [s] |
| | | | ontime3 | 8163.2001216412 | Sum of GTIs [s] |
| | | | ontime5 | 8163.2001216412 | Sum of GTIs [s] |
| | | | ontime7 | 8163.2001216412 | Sum of GTIs [s] |
| | | | l1events | 1025906 | 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 | 177336 | 183266 | 191518 | 189637 | 151616 | 132533 | grade 0 events | 8754 | 8359 | 9396 | 9598 | 11361 | 5186 |
| rejected events | 157845 | 162900 | 171832 | 169483 | 87858 | 82585 | | 4% | 4% | 4% | 5% | 7% | 3% |
| rejected % | 89% | 88% | 89% | 89% | 57% | 62% | grade 1 events | 56 | 41 | 47 | 61 | 218 | 103 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4608 | 5598 | 4458 | 4437 | 20217 | 12571 |
| | | | | | | | | 2% | 3% | 2% | 2% | 13% | 9% |
| | | | | | | | grade 3 events | 1461 | 1289 | 1397 | 1431 | 1639 | 3577 |
| | | | | | | | | 0% | 0% | 0% | 0% | 1% | 2% |
| | | | | | | | grade 4 events | 1345 | 1363 | 1460 | 1468 | 1541 | 3455 |
| | | | | | | | | 0% | 0% | 0% | 0% | 1% | 2% |
| | | | | | | | grade 5 events | 3178 | 3086 | 3001 | 3391 | 6410 | 8183 |
| | | | | | | | | 1% | 1% | 1% | 1% | 4% | 6% |
| | | | | | | | grade 6 events | 3547 | 4013 | 3221 | 3470 | 29781 | 25786 |
| | | | | | | | | 2% | 2% | 1% | 1% | 19% | 19% |
| | | | | | | | grade 7 events | 154387 | 159517 | 168538 | 165781 | 80449 | 73672 |
| | | | | | | | | 87% | 87% | 88% | 87% | 53% | 55% |

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 | 234.9733634066218 |
| [deg] Pointing Dec | 0 | -0.5888306837015049 |
| [deg] Pointing Roll | 0.0 | 149.3902704586958 |
| 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) | 578953056.412393 | 578953056.412393 |
| Observation start date | 2016-05-06T20:17:36 | 2016-05-06T20:17:36 |
| [s] Observation end time (MET) | 578962604.58937 | 578962604.58937 |
| Observation end date | 2016-05-06T22:56:45 | 2016-05-06T22:56:44 |
| 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 | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2016.05.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.1632001216412 |

A.2 Comments