

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 51225 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 26 2016

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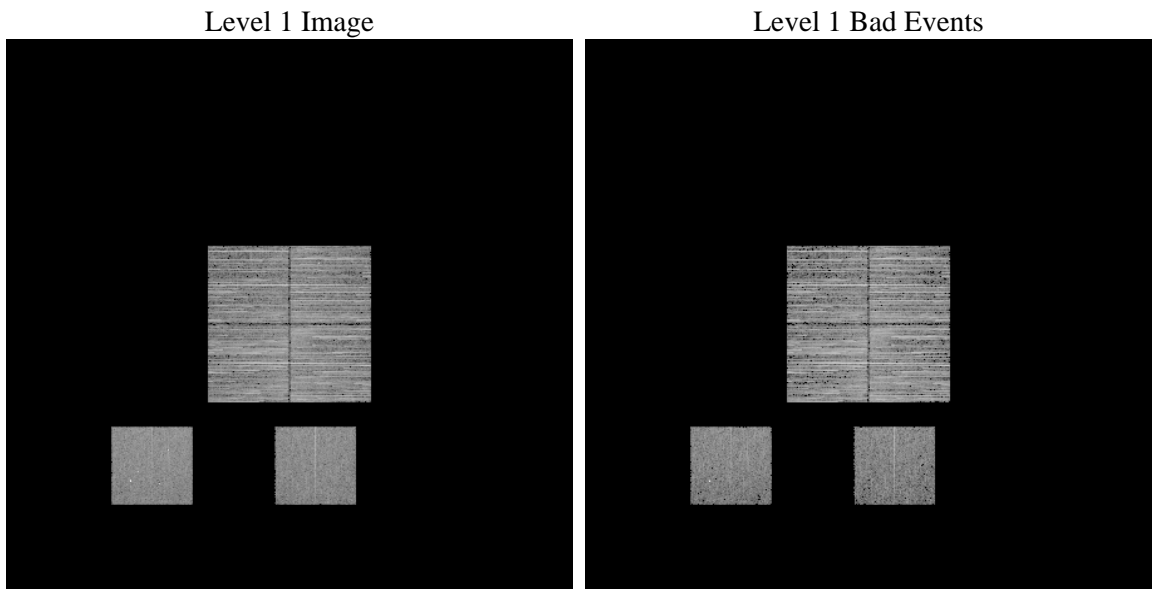
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51225 | Observation id |
| title | ACIS-012357 diagnostics | Proposal title |
| observer | CHANDRA engineering request/realtime commanding | Principal investig |
| object | | Source name |
| dtycycle | 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 | 142.0286528646 | Nominal RA [deg] |
| dec_nom | -10.006032389671 | Nominal Dec [deg] |
| roll_nom | 315.07232315165 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 3269.4835915565 | Sum of GTIs [s] |
| livetime | 3228.0834216736 | Livetime [s] |
| ontime0 | 3269.4425514936 | Sum of GTIs [s] |
| ontime1 | 3269.4015115499 | Sum of GTIs [s] |
| ontime2 | 3269.360471487 | Sum of GTIs [s] |
| ontime3 | 3266.9286460876 | Sum of GTIs [s] |
| ontime5 | 3269.3194315434 | Sum of GTIs [s] |
| ontime7 | 3269.4835915565 | Sum of GTIs [s] |
| l2events | 73999 | Number of level 2 events |

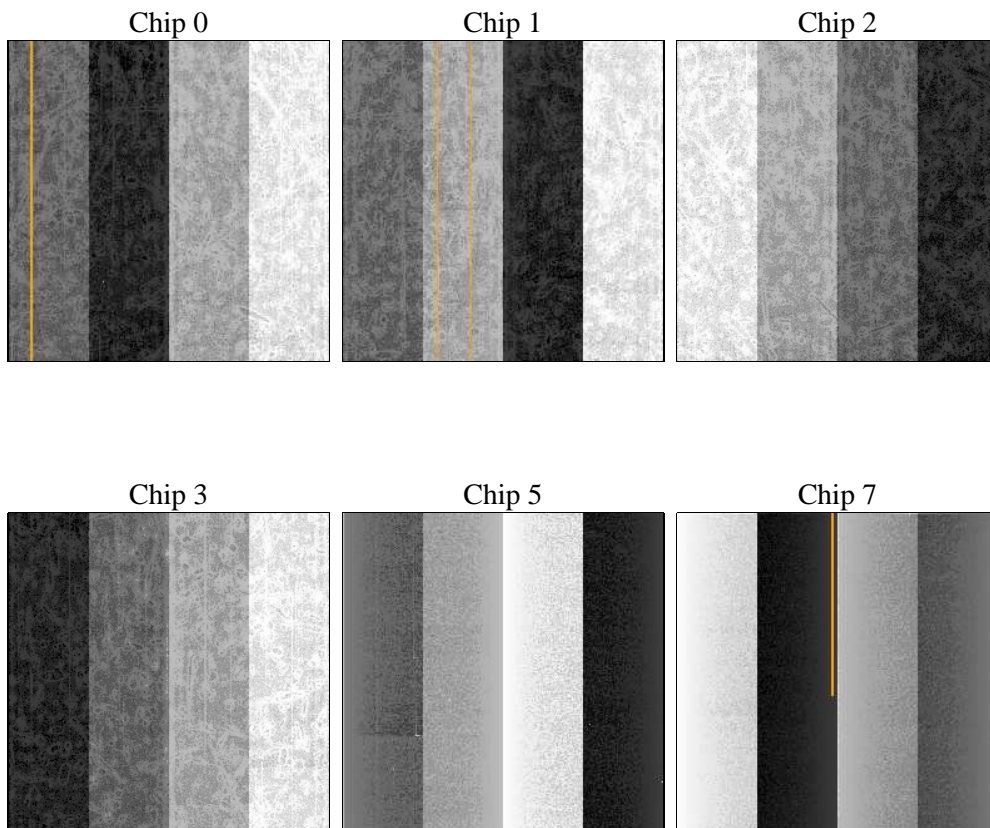
2 OBI

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 | 3269.4835915565 | Sum of GTIs [s] |
| caldbver | 4.7.0 | | ontime0 | 3269.4425514936 | Sum of GTIs [s] |
| date | 2016-02-26T19:09:54 | Date and time of file creation | ontime1 | 3269.4015115499 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 3269.360471487 | Sum of GTIs [s] |
| | | | ontime3 | 3266.9286460876 | Sum of GTIs [s] |
| | | | ontime5 | 3269.3194315434 | Sum of GTIs [s] |
| | | | ontime7 | 3269.4835915565 | Sum of GTIs [s] |
| | | | l1events | 381639 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 59575 | 65191 | 71012 | 74378 | 58797 | 52686 |
| rejected events | 51295 | 56906 | 62718 | 66143 | 34434 | 31303 |
| rejected % | 86% | 87% | 88% | 88% | 58% | 59% |

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 3917 | 3707 | 4015 | 4083 | 2274 | 2351 |
| | 6% | 5% | 5% | 5% | 3% | 4% |
| grade 1 events | 17 | 24 | 42 | 22 | 63 | 32 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1831 | 1908 | 1770 | 1648 | 8752 | 5242 |
| | 3% | 2% | 2% | 2% | 14% | 9% |
| grade 3 events | 581 | 567 | 601 | 605 | 731 | 1658 |
| | 0% | 0% | 0% | 0% | 1% | 3% |
| grade 4 events | 578 | 582 | 592 | 607 | 734 | 1636 |
| | 0% | 0% | 0% | 0% | 1% | 3% |
| grade 5 events | 1300 | 1418 | 1284 | 1438 | 2817 | 3456 |
| | 2% | 2% | 1% | 1% | 4% | 6% |
| grade 6 events | 1373 | 1521 | 1316 | 1292 | 11872 | 10496 |
| | 2% | 2% | 1% | 1% | 20% | 19% |
| grade 7 events | 49978 | 55464 | 61392 | 64683 | 31554 | 27815 |
| | 83% | 85% | 86% | 86% | 53% | 52% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012357 | ACIS-012357 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | SECONDARY | SECONDARY | On-chip summing requested | N | N |
| [deg] Pointing RA | 0 | 142.0286528646038 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -10.00603238967073 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 315.0723231516458 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 572785715.174594 | 572785714.14959 | | | |
| Observation start date | 2016-02-25T11:08:35 | 2016-02-25T11:08:34 | | | |
| [s] Observation end time (MET) | 572802414.475544 | 572802413.4505399 | | | |
| Observation end date | 2016-02-25T15:46:54 | 2016-02-25T15:46:53 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2016.02.26 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.2694835915565 |

A.2 Comments