

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 55106 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 25 2012

Contents

| | | |
|----------|-------------------------------|----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Star Slots | 6 |
| 2.4 | FID Slots | 6 |
| A | Summary | 7 |
| A.1 | Status | 7 |
| A.2 | Comments | 7 |

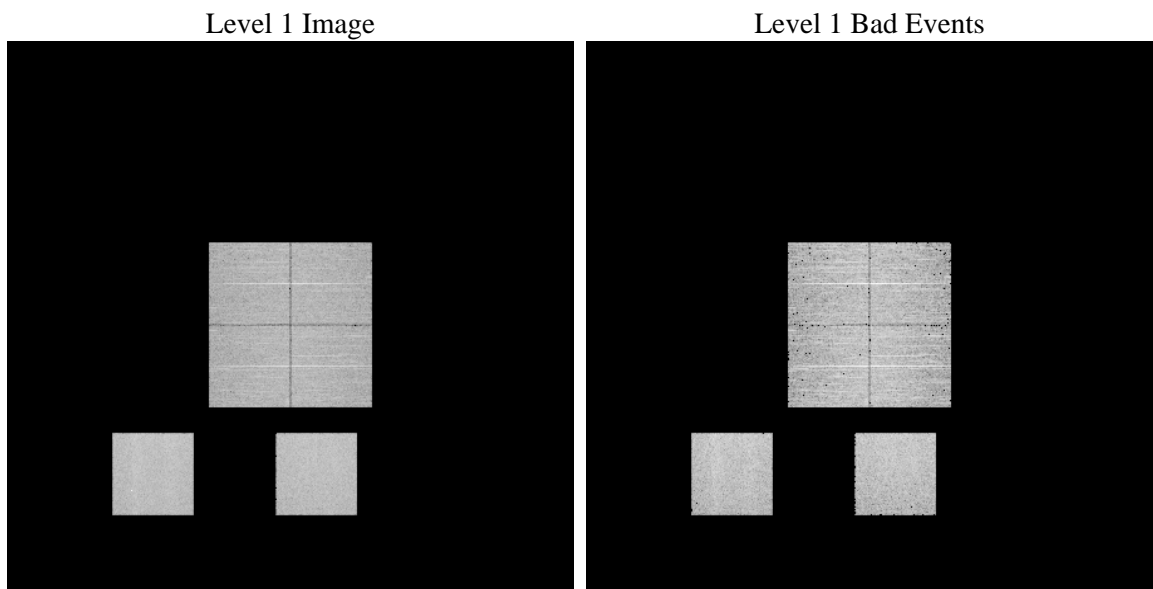
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 55106 | 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 | 296.22001221064 | Nominal RA [deg] |
| dec_nom | -10.020901292169 | Nominal Dec [deg] |
| roll_nom | 280.417204938 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 6521.3877293468 | Sum of GTIs [s] |
| livetime | 6438.8099912095 | Livetime [s] |
| ontime0 | 6414.3923693299 | Sum of GTIs [s] |
| ontime1 | 6414.3513293266 | Sum of GTIs [s] |
| ontime2 | 6417.5513293147 | Sum of GTIs [s] |
| ontime3 | 6411.2362853289 | Sum of GTIs [s] |
| ontime5 | 6521.2235693336 | Sum of GTIs [s] |
| ontime7 | 6521.3877293468 | Sum of GTIs [s] |
| l2events | 242575 | Number of level 2 events |

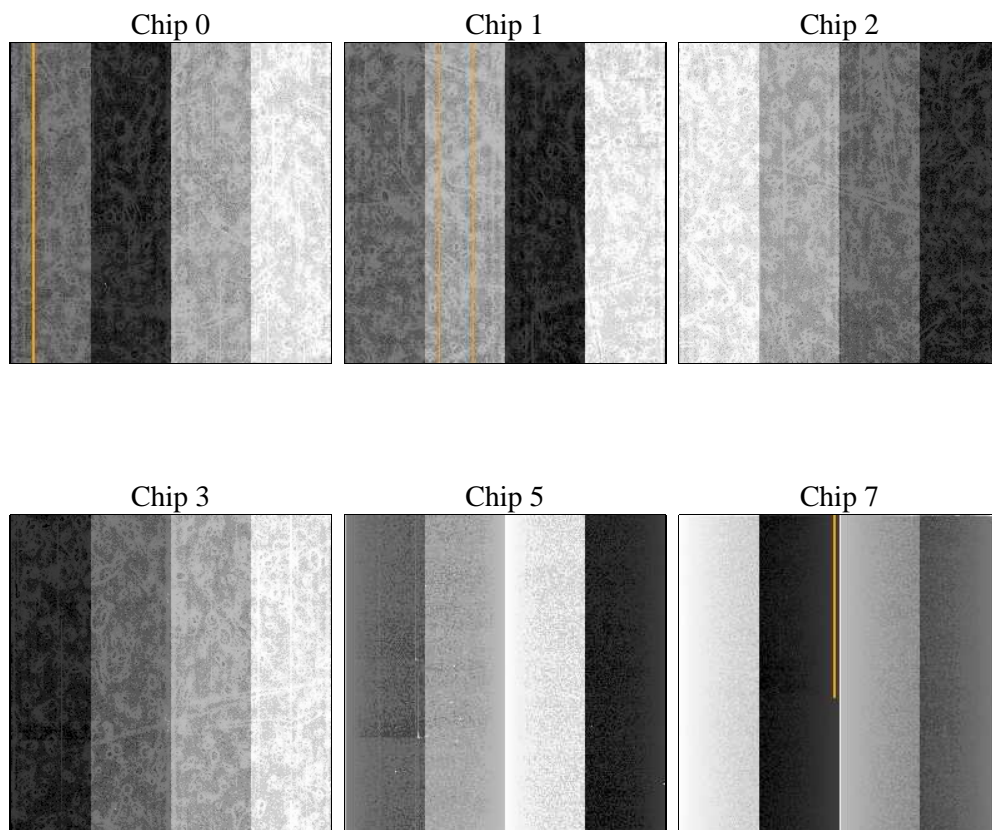
2 OBI

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 | 8.4.3 | Processing system revision | ontime | 6521.3877293468 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime0 | 6414.3923693299 | Sum of GTIs [s] |
| date | 2012-02-25T07:17:45 | Date and time of file creation | ontime1 | 6414.3513293266 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 6417.5513293147 | Sum of GTIs [s] |
| | | | ontime3 | 6411.2362853289 | Sum of GTIs [s] |
| | | | ontime5 | 6521.2235693336 | Sum of GTIs [s] |
| | | | ontime7 | 6521.3877293468 | Sum of GTIs [s] |
| | | | l1events | 514161 | 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 | 74949 | 75038 | 76492 | 78069 | 106519 | 103094 | grade 0 events | 17686 | 16752 | 19060 | 18588 | 5610 | 9147 |
| rejected events | 40651 | 40270 | 41733 | 43653 | 47035 | 46029 | | 23% | 22% | 24% | 23% | 5% | 8% |
| rejected % | 54% | 53% | 54% | 55% | 44% | 44% | grade 1 events | 95 | 89 | 117 | 130 | 149 | 90 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 6702 | 7832 | 6004 | 6071 | 22399 | 12829 |
| | | | | | | | | 8% | 10% | 7% | 7% | 21% | 12% |
| | | | | | | | grade 3 events | 2325 | 2232 | 2445 | 2314 | 2049 | 4816 |
| | | | | | | | | 3% | 2% | 3% | 2% | 1% | 4% |
| | | | | | | | grade 4 events | 2307 | 2194 | 2389 | 2363 | 1818 | 4670 |
| | | | | | | | | 3% | 2% | 3% | 3% | 1% | 4% |
| | | | | | | | grade 5 events | 2451 | 2478 | 2400 | 2690 | 5150 | 6476 |
| | | | | | | | | 3% | 3% | 3% | 3% | 4% | 6% |
| | | | | | | | grade 6 events | 5436 | 5929 | 5019 | 5222 | 27850 | 25861 |
| | | | | | | | | 7% | 7% | 6% | 6% | 26% | 25% |
| | | | | | | | grade 7 events | 37947 | 37532 | 39058 | 40691 | 41494 | 39205 |
| | | | | | | | | 50% | 50% | 51% | 52% | 38% | 38% |

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 | 296.2200122106393 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -10.02090129216912 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 280.417204937999 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 435488540.702878 | 435488539.67786 | | | |
| Observation start date | 2011-10-20T09:02:21 | 2011-10-20T09:02:19 | | | |
| [s] Observation end time (MET) | 435497312.65334 | 435497311.62832 | | | |
| Observation end date | 2011-10-20T11:28:33 | 2011-10-20T11:28:31 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.02.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.5213877293468 |

A.2 Comments