

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 56229 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 26 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 |

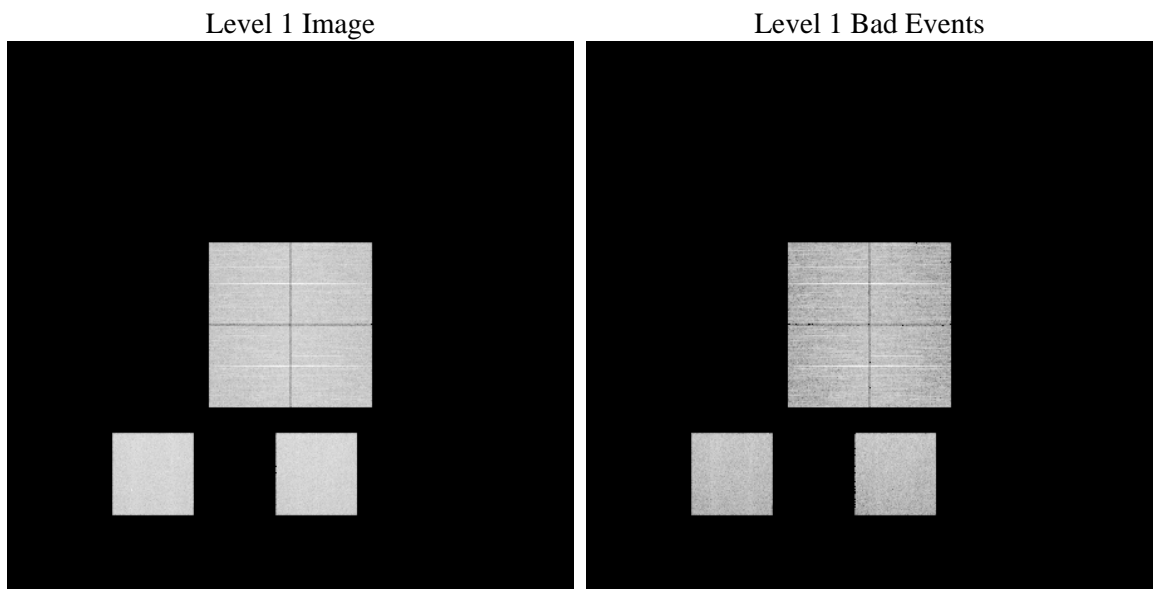
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 56229 | 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 | 284.98431773151 | Nominal RA [deg] |
| dec_nom | -33.972058608966 | Nominal Dec [deg] |
| roll_nom | 81.158823246562 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8278.3999692202 | Sum of GTIs [s] |
| livetime | 8173.5738841559 | Livetime [s] |
| ontime0 | 8278.3999692202 | Sum of GTIs [s] |
| ontime1 | 8278.3999692202 | Sum of GTIs [s] |
| ontime2 | 8278.3999692202 | Sum of GTIs [s] |
| ontime3 | 8278.3999692202 | Sum of GTIs [s] |
| ontime5 | 8278.3999692202 | Sum of GTIs [s] |
| ontime7 | 8278.3999692202 | Sum of GTIs [s] |
| l2events | 424630 | Number of level 2 events |

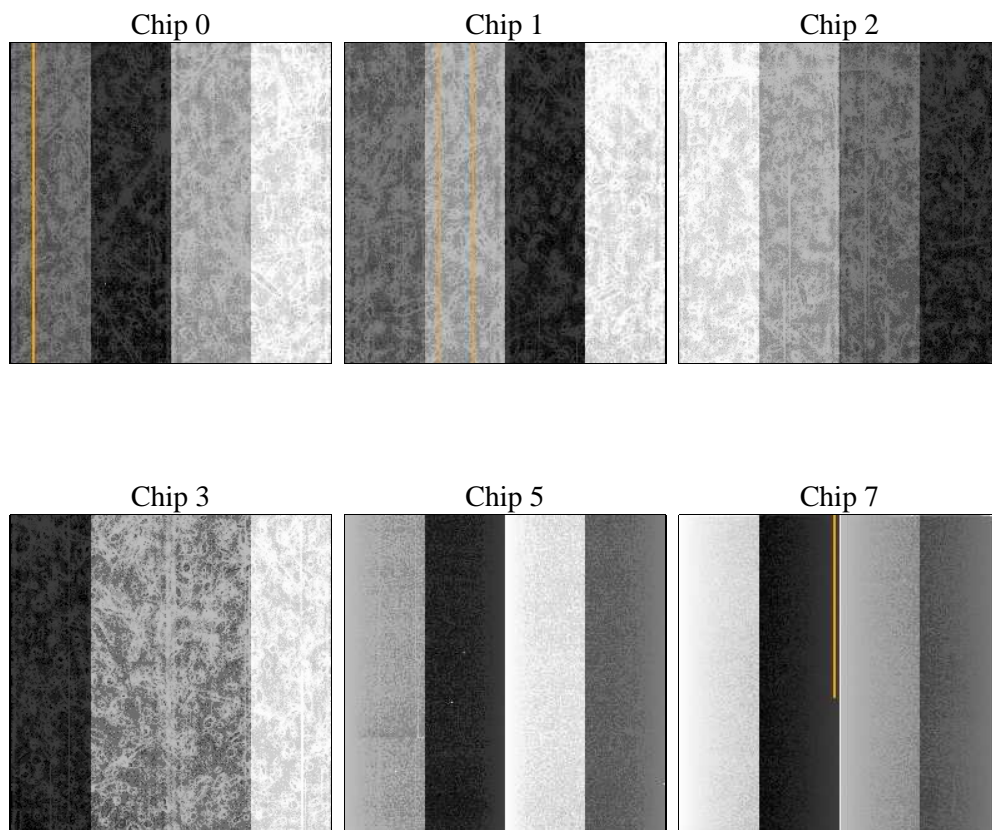
2 OBI

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 | 8.4.5 | Processing system revision | ontime | 8278.3999692202 | Sum of GTIs [s] |
| caldsver | 4.4.10 | | ontime0 | 8278.3999692202 | Sum of GTIs [s] |
| date | 2012-06-26T14:58:49 | Date and time of file creation | ontime1 | 8278.3999692202 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 8278.3999692202 | Sum of GTIs [s] |
| | | | ontime3 | 8278.3999692202 | Sum of GTIs [s] |
| | | | ontime5 | 8278.3999692202 | Sum of GTIs [s] |
| | | | ontime7 | 8278.3999692202 | Sum of GTIs [s] |
| | | | l1events | 849316 | 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 | 127034 | 126219 | 130301 | 133445 | 167614 | 164703 | grade 0 events | 32801 | 32239 | 33927 | 34069 | 10661 | 16723 |
| rejected events | 65080 | 63360 | 68111 | 70702 | 69752 | 67206 | | 25% | 25% | 26% | 25% | 6% | 10% |
| rejected % | 51% | 50% | 52% | 52% | 41% | 40% | grade 1 events | 246 | 188 | 265 | 245 | 235 | 130 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 11273 | 12195 | 10657 | 10865 | 36263 | 21276 |
| | | | | | | | | 8% | 9% | 8% | 8% | 21% | 12% |
| | | | | | | | grade 3 events | 4249 | 4247 | 4244 | 4326 | 3757 | 8931 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 5% |
| | | | | | | | grade 4 events | 4026 | 4141 | 4237 | 4284 | 3691 | 8465 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 5% |
| | | | | | | | grade 5 events | 3839 | 3965 | 3711 | 4213 | 8438 | 10306 |
| | | | | | | | | 3% | 3% | 2% | 3% | 5% | 6% |
| | | | | | | | grade 6 events | 9631 | 10060 | 9158 | 9230 | 43531 | 42147 |
| | | | | | | | | 7% | 7% | 7% | 6% | 25% | 25% |
| | | | | | | | grade 7 events | 60969 | 59184 | 64102 | 66213 | 61038 | 56725 |
| | | | | | | | | 47% | 46% | 49% | 49% | 36% | 34% |

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 | 284.9843177315057 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -33.97205860896555 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 81.1588232465616 | [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) | 391396798.494008 | 391396797.469 | | | |
| Observation start date | 2010-05-28T01:19:58 | 2010-05-28T01:19:57 | | | |
| [s] Observation end time (MET) | 391408317.444595 | 391408316.41959 | | | |
| Observation end date | 2010-05-28T04:31:57 | 2010-05-28T04:31:56 | | | |
| 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) | 2012.07.03 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2783999692202 |

A.2 Comments