

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 58967 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 1 2012

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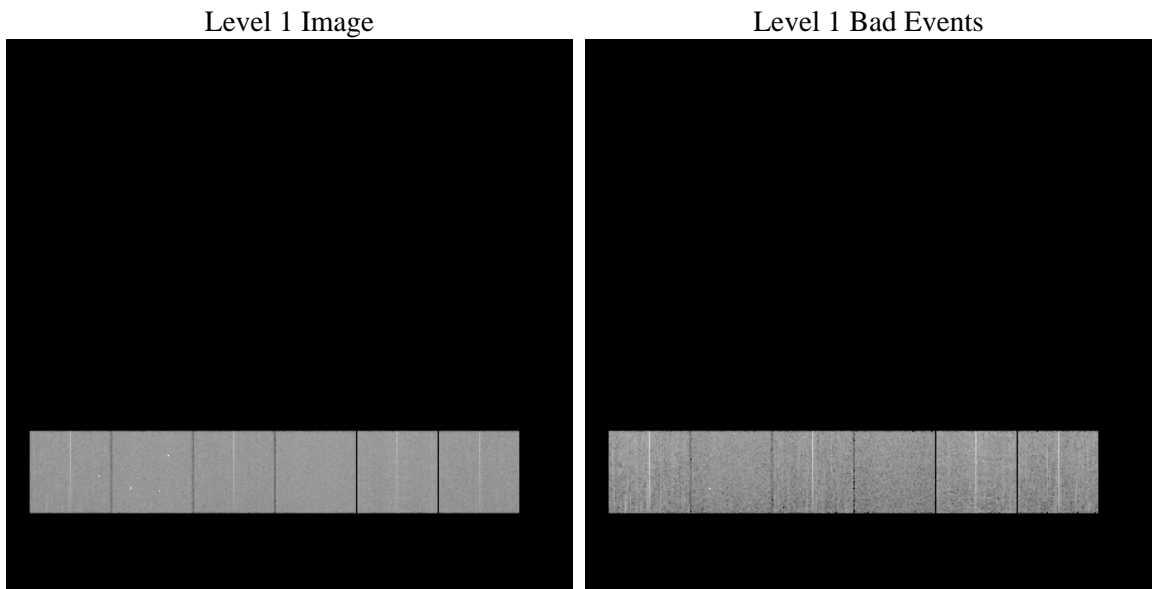
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58967 | Observation id |
| title | ACIS-456789 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 | 223.04060700963 | Nominal RA [deg] |
| dec_nom | -46.992759182914 | Nominal Dec [deg] |
| roll_nom | 341.83900561549 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 7244.799973011 | Sum of GTIs [s] |
| livetime | 7153.0619534579 | Livetime [s] |
| ontime4 | 7244.799973011 | Sum of GTIs [s] |
| ontime5 | 7244.799973011 | Sum of GTIs [s] |
| ontime6 | 7244.799973011 | Sum of GTIs [s] |
| ontime7 | 7244.799973011 | Sum of GTIs [s] |
| ontime8 | 7244.799973011 | Sum of GTIs [s] |
| ontime9 | 7244.799973011 | Sum of GTIs [s] |
| l2events | 831293 | Number of level 2 events |

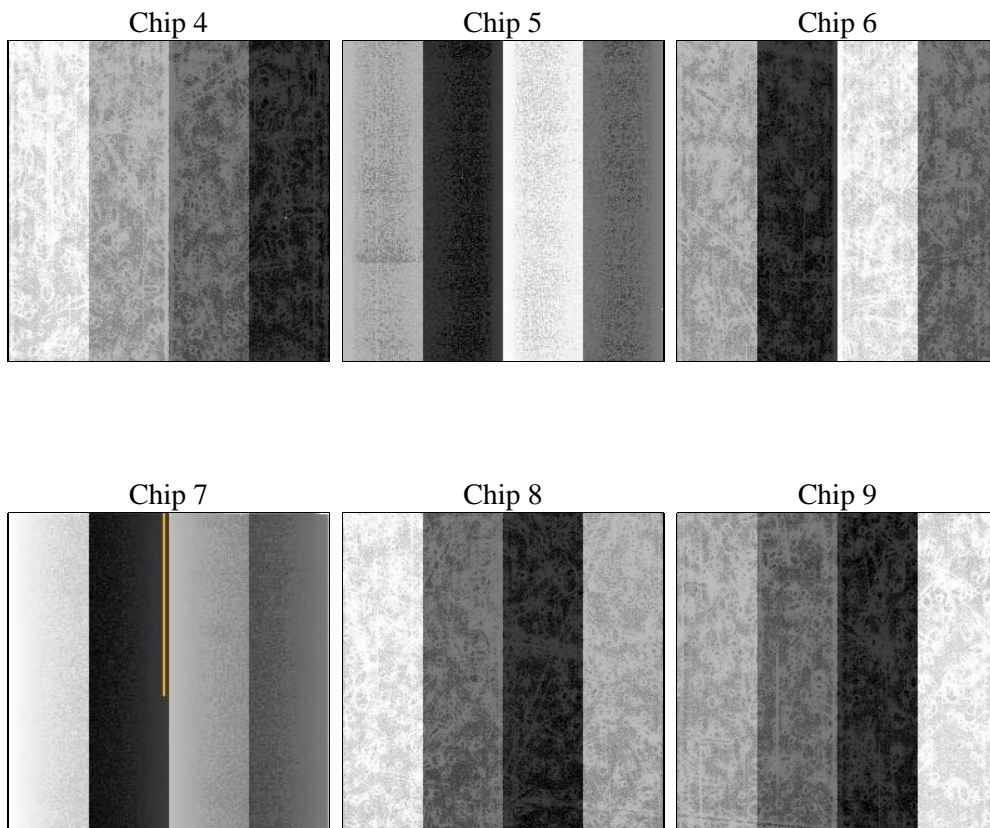
2 OBI

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 | 7244.799973011 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 7244.799973011 | Sum of GTIs [s] |
| date | 2012-04-01T06:15:04 | Date and time of file creation | ontime5 | 7244.799973011 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 7244.799973011 | Sum of GTIs [s] |
| | | | ontime7 | 7244.799973011 | Sum of GTIs [s] |
| | | | ontime8 | 7244.799973011 | Sum of GTIs [s] |
| | | | ontime9 | 7244.799973011 | Sum of GTIs [s] |
| | | | l1events | 1267297 | Number of level 1 events |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 | | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 206396 | 214236 | 205585 | 217377 | 222093 | 201610 | grade 0 events | 78790 | 31556 | 77895 | 37448 | 81048 | 75784 |
| rejected events | 70593 | 58293 | 61302 | 52000 | 68822 | 62654 | | 38% | 14% | 37% | 17% | 36% | 37% |
| rejected % | 34% | 27% | 29% | 23% | 30% | 31% | grade 1 events | 724 | 204 | 471 | 139 | 489 | 552 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 21340 | 55807 | 25300 | 36057 | 27443 | 23804 |
| | | | | | | | | 10% | 26% | 12% | 16% | 12% | 11% |
| | | | | | | | grade 3 events | 9139 | 8238 | 9047 | 16147 | 10211 | 8958 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 9175 | 8295 | 9018 | 16046 | 10385 | 9092 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 5 events | 3580 | 8480 | 3774 | 8963 | 4572 | 4040 |
| | | | | | | | | 1% | 3% | 1% | 4% | 2% | 2% |
| | | | | | | | grade 6 events | 17359 | 52047 | 23023 | 59679 | 24184 | 21318 |
| | | | | | | | | 8% | 24% | 11% | 27% | 10% | 10% |
| | | | | | | | grade 7 events | 66289 | 49609 | 57057 | 42898 | 63761 | 58062 |
| | | | | | | | | 32% | 23% | 27% | 19% | 28% | 28% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-456789 | ACIS-456789 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 223.0406070096319 |
| [deg] Pointing Dec | 0 | -46.99275918291351 |
| [deg] Pointing Roll | 0.0 | 341.8390056154898 |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 |
| [mm] SIM defocus | 0 | 0.8505141146731063 |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 264096899.56951 | 264096898.5445 |
| Observation start date | 2006-05-15T16:15:00 | 2006-05-15T16:14:58 |
| [s] Observation end time (MET) | 264110005.220122 | 264110004.19511 |
| Observation end date | 2006-05-15T19:53:25 | 2006-05-15T19:53:24 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| 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 | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.04.03 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.244799973011 |

A.2 Comments