

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58467 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 22 2012

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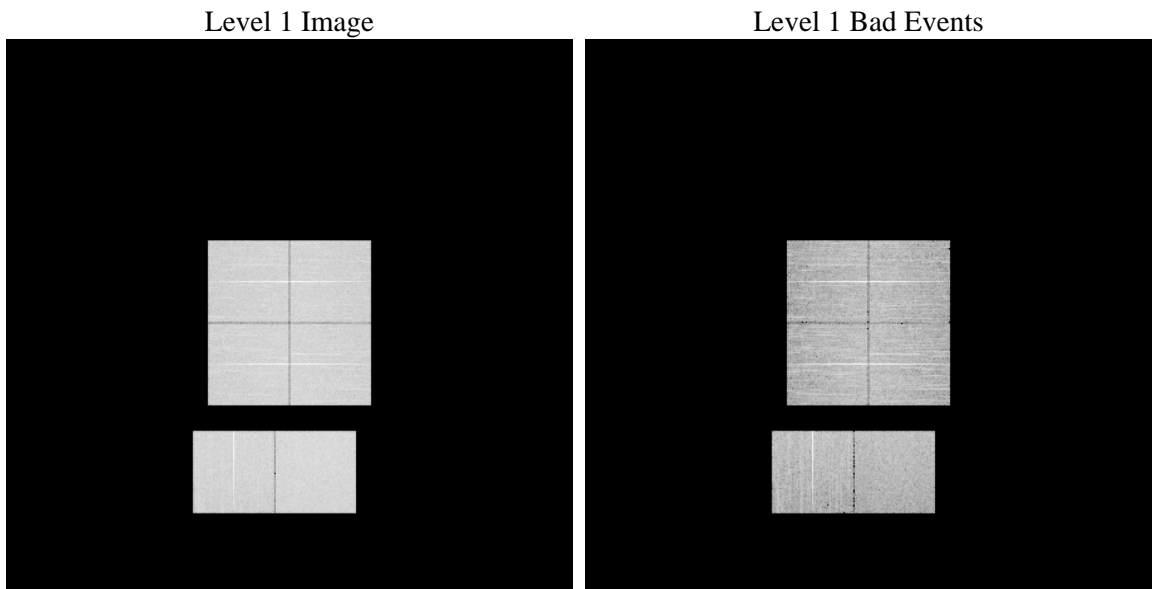
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58467 | Observation id |
| title | ACIS-012367 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 | 172.03134906176 | Nominal RA [deg] |
| dec_nom | -27.992895944804 | Nominal Dec [deg] |
| roll_nom | 337.17721019445 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8239.9999693632 | Sum of GTIs [s] |
| livetime | 8135.6601282188 | Livetime [s] |
| ontime0 | 8236.7589790821 | Sum of GTIs [s] |
| ontime1 | 8239.9999693632 | Sum of GTIs [s] |
| ontime2 | 8239.9999693632 | Sum of GTIs [s] |
| ontime3 | 8236.7589790821 | Sum of GTIs [s] |
| ontime6 | 8239.9999693632 | Sum of GTIs [s] |
| ontime7 | 8239.9999693632 | Sum of GTIs [s] |
| l2events | 759104 | Number of level 2 events |

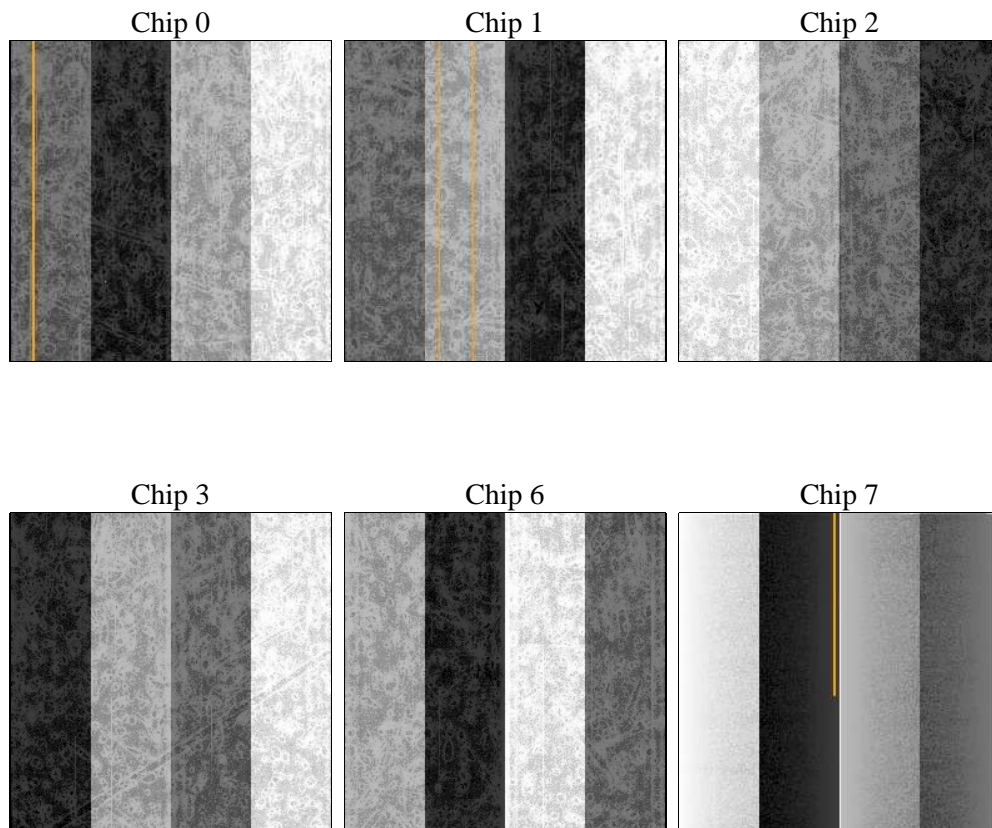
2 OBI

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 | 8.4.4 | Processing system revision | ontime | 8239.9999693632 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 8236.7589790821 | Sum of GTIs [s] |
| date | 2012-04-22T05:45:59 | Date and time of file creation | ontime1 | 8239.9999693632 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 8239.9999693632 | Sum of GTIs [s] |
| | | | ontime3 | 8236.7589790821 | Sum of GTIs [s] |
| | | | ontime6 | 8239.9999693632 | Sum of GTIs [s] |
| | | | ontime7 | 8239.9999693632 | Sum of GTIs [s] |
| | | | l1events | 1224409 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 193560 | 196752 | 201778 | 203940 | 204986 | 223393 | grade 0 events | 69022 | 68807 | 70500 | 70968 | 71012 | 34297 |
| rejected events | 67604 | 69599 | 74478 | 76136 | 72838 | 63548 | | 35% | 34% | 34% | 34% | 34% | 15% |
| rejected % | 34% | 35% | 36% | 37% | 35% | 28% | grade 1 events | 507 | 386 | 565 | 516 | 434 | 160 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 22183 | 23214 | 21764 | 21967 | 23001 | 34686 |
| | | | | | | | | 11% | 11% | 10% | 10% | 11% | 15% |
| | | | | | | | grade 3 events | 8387 | 8140 | 8608 | 8468 | 8570 | 15387 |
| | | | | | | | | 4% | 4% | 4% | 4% | 4% | 6% |
| | | | | | | | grade 4 events | 8184 | 8238 | 8623 | 8584 | 8321 | 15312 |
| | | | | | | | | 4% | 4% | 4% | 4% | 4% | 6% |
| | | | | | | | grade 5 events | 3823 | 4027 | 3736 | 4351 | 4132 | 10674 |
| | | | | | | | | 1% | 2% | 1% | 2% | 2% | 4% |
| | | | | | | | grade 6 events | 18692 | 19290 | 18249 | 18320 | 21818 | 60811 |
| | | | | | | | | 9% | 9% | 9% | 8% | 10% | 27% |
| | | | | | | | grade 7 events | 62762 | 64650 | 69733 | 70766 | 67698 | 52066 |
| | | | | | | | | 32% | 32% | 34% | 34% | 33% | 23% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 172.0313490617594 |
| [deg] Pointing Dec | 0 | -27.99289594480388 |
| [deg] Pointing Roll | 0.0 | 337.177210194455 |
| [mm] SIM focus pos | -0.782348 | -0.6828225247311905 |
| [mm] SIM defocus | 0 | 0.8505141146731063 |
| [mm] SIM translation stage pos | -233.592463 | 250.4635187648994 |
| [mm] SIM translation stage offset | 0 | -0.007540371344731511 |
| [s] Observation start time (MET) | 291093508.692029 | 291093507.66703 |
| Observation start date | 2007-03-24T03:18:29 | 2007-03-24T03:18:27 |
| [s] Observation end time (MET) | 291116618.343129 | 291116617.31813 |
| Observation end date | 2007-03-24T09:43:38 | 2007-03-24T09:43:37 |
| 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 | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.04.23 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2399999693632 |

A.2 Comments