

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 59991 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 10 2012

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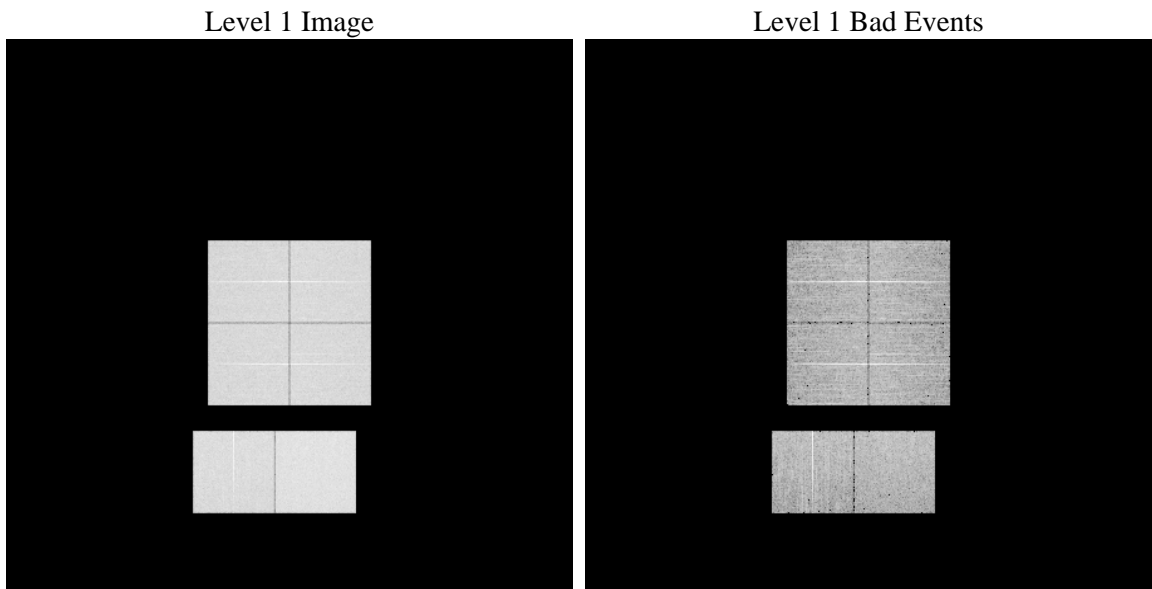
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 59991 | 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 | 341.02468373434 | Nominal RA [deg] |
| dec_nom | -12.015316667458 | Nominal Dec [deg] |
| roll_nom | 294.73772812809 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 7798.3999709487 | Sum of GTIs [s] |
| livetime | 7699.6519348838 | Livetime [s] |
| ontime0 | 6210.325130403 | Sum of GTIs [s] |
| ontime1 | 6414.50672701 | Sum of GTIs [s] |
| ontime2 | 6129.3016707301 | Sum of GTIs [s] |
| ontime3 | 6242.7355307341 | Sum of GTIs [s] |
| ontime6 | 6664.0611388981 | Sum of GTIs [s] |
| ontime7 | 7798.3999709487 | Sum of GTIs [s] |
| l2events | 1066528 | Number of level 2 events |

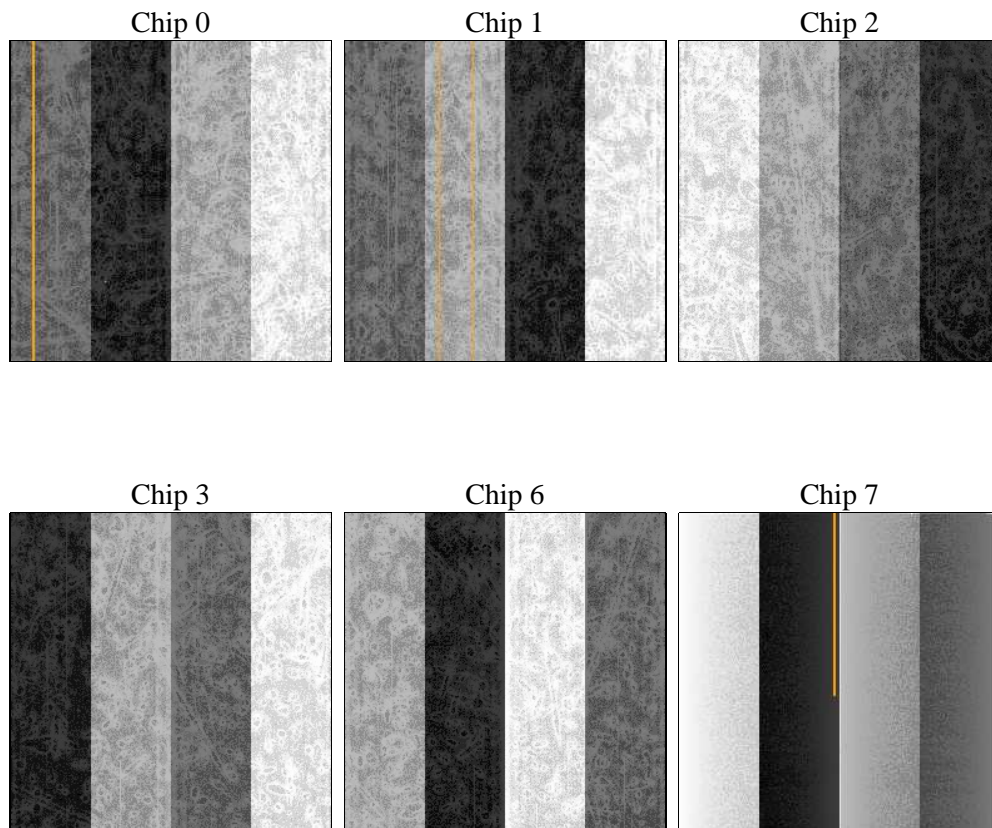
2 OBI

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 | 8.5 | Processing system revision | ontime | 7798.3999709487 | Sum of GTIs [s] |
| caldsver | 4.5.4 | | ontime0 | 6210.325130403 | Sum of GTIs [s] |
| date | 2012-12-10T14:47:14 | Date and time of file creation | ontime1 | 6414.50672701 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 6129.3016707301 | Sum of GTIs [s] |
| | | | ontime3 | 6242.7355307341 | Sum of GTIs [s] |
| | | | ontime6 | 6664.0611388981 | Sum of GTIs [s] |
| | | | ontime7 | 7798.3999709487 | Sum of GTIs [s] |
| | | | l1events | 1412416 | 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 | 215648 | 222878 | 218218 | 221506 | 244154 | 290012 | grade 0 events | 92906 | 96175 | 95066 | 96579 | 104281 | 58039 |
| rejected events | 46510 | 47144 | 48403 | 48331 | 51921 | 50530 | | 43% | 43% | 43% | 43% | 42% | 20% |
| rejected % | 21% | 21% | 22% | 21% | 21% | 17% | grade 1 events | 612 | 522 | 647 | 593 | 551 | 193 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 29622 | 31229 | 28897 | 29745 | 33384 | 52833 |
| | | | | | | | | 13% | 14% | 13% | 13% | 13% | 18% |
| | | | | | | | grade 3 events | 11157 | 11138 | 11071 | 11499 | 12179 | 24080 |
| | | | | | | | | 5% | 4% | 5% | 5% | 4% | 8% |
| | | | | | | | grade 4 events | 10938 | 11383 | 11086 | 11598 | 12027 | 23824 |
| | | | | | | | | 5% | 5% | 5% | 5% | 4% | 8% |
| | | | | | | | grade 5 events | 2862 | 2980 | 2752 | 3287 | 3348 | 9067 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 6 events | 24608 | 25896 | 23780 | 23850 | 30470 | 80805 |
| | | | | | | | | 11% | 11% | 10% | 10% | 12% | 27% |
| | | | | | | | grade 7 events | 42943 | 43555 | 44919 | 44355 | 47914 | 41171 |
| | | | | | | | | 19% | 19% | 20% | 20% | 19% | 14% |

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 | 341.0246837343416 |
| [deg] Pointing Dec | 0 | -12.01531666745776 |
| [deg] Pointing Roll | 0.0 | 294.737728128089 |
| [mm] SIM focus pos | -0.782348 | -0.6828225247311905 |
| [mm] SIM defocus | 0 | 0.8505141146731063 |
| [mm] SIM translation stage pos | -233.592463 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 215199885.279734 | 215199884.25474 |
| Observation start date | 2004-10-26T17:44:45 | 2004-10-26T17:44:44 |
| [s] Observation end time (MET) | 215220924.430676 | 215220923.40568 |
| Observation end date | 2004-10-26T23:35:24 | 2004-10-26T23:35:23 |
| 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) | 2012.12.21 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.7983999709487 |

A.2 Comments