

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58251 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 29 2012

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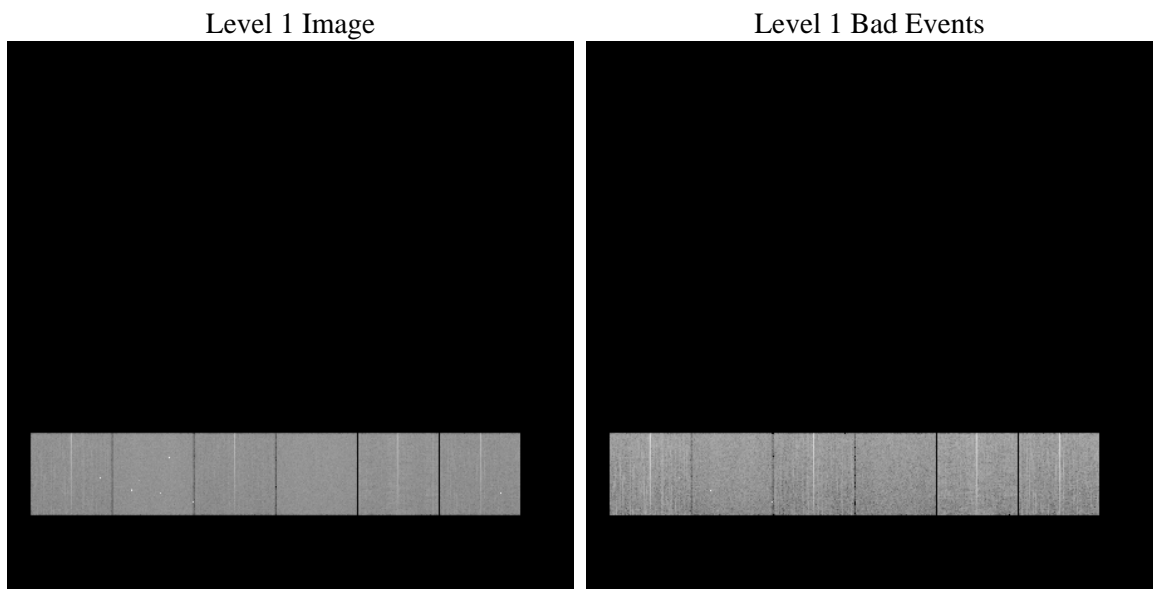
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58251 | 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 | 320.03626998662 | Nominal RA [deg] |
| dec_nom | -36.994667928889 | Nominal Dec [deg] |
| roll_nom | 332.55195921081 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8217.2129212618 | Sum of GTIs [s] |
| livetime | 8113.1616234412 | Livetime [s] |
| ontime4 | 8217.0898012519 | Sum of GTIs [s] |
| ontime5 | 8217.1718812585 | Sum of GTIs [s] |
| ontime6 | 8217.1308412552 | Sum of GTIs [s] |
| ontime7 | 8217.2129212618 | Sum of GTIs [s] |
| ontime8 | 8217.0487612486 | Sum of GTIs [s] |
| ontime9 | 8217.2539612651 | Sum of GTIs [s] |
| l2events | 722166 | Number of level 2 events |

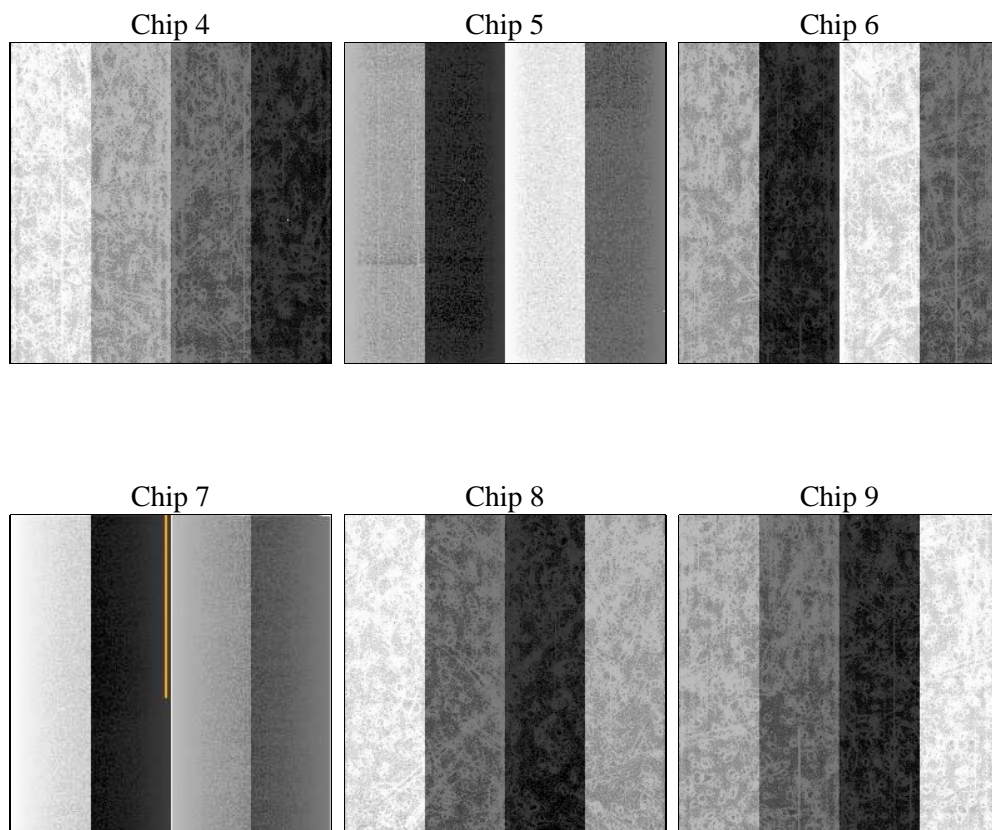
2 OBI

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 | 8217.2129212618 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 8217.0898012519 | Sum of GTIs [s] |
| date | 2012-04-30T02:20:48 | Date and time of file creation | ontime5 | 8217.1718812585 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 8217.1308412552 | Sum of GTIs [s] |
| | | | ontime7 | 8217.2129212618 | Sum of GTIs [s] |
| | | | ontime8 | 8217.0487612486 | Sum of GTIs [s] |
| | | | ontime9 | 8217.2539612651 | Sum of GTIs [s] |
| | | | l1events | 1255172 | 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 | 200213 | 222411 | 196715 | 219003 | 217018 | 199812 | grade 0 events | 66533 | 27530 | 64619 | 31898 | 68258 | 65881 |
| rejected events | 86298 | 74370 | 75986 | 67522 | 85779 | 80923 | | 33% | 12% | 32% | 14% | 31% | 32% |
| rejected % | 43% | 33% | 38% | 30% | 39% | 40% | grade 1 events | 647 | 677 | 392 | 171 | 460 | 483 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 17751 | 53327 | 21479 | 32989 | 23892 | 20356 |
| | | | | | | | | 8% | 23% | 10% | 15% | 11% | 10% |
| | | | | | | | grade 3 events | 7792 | 7434 | 7654 | 14705 | 9313 | 7705 |
| | | | | | | | | 3% | 3% | 3% | 6% | 4% | 3% |
| | | | | | | | grade 4 events | 7808 | 7195 | 7858 | 14556 | 9203 | 7646 |
| | | | | | | | | 3% | 3% | 3% | 6% | 4% | 3% |
| | | | | | | | grade 5 events | 4329 | 10527 | 4382 | 11141 | 5694 | 4960 |
| | | | | | | | | 2% | 4% | 2% | 5% | 2% | 2% |
| | | | | | | | grade 6 events | 14744 | 53521 | 19947 | 58332 | 21489 | 18092 |
| | | | | | | | | 7% | 24% | 10% | 26% | 9% | 9% |
| | | | | | | | grade 7 events | 80609 | 62200 | 70384 | 55211 | 78709 | 74689 |
| | | | | | | | | 40% | 27% | 35% | 25% | 36% | 37% |

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 | 320.0362699866199 |
| [deg] Pointing Dec | 0 | -36.99466792888916 |
| [deg] Pointing Roll | 0.0 | 332.5519592108098 |
| [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) | 304340871.725498 | 304340870.7005 |
| Observation start date | 2007-08-24T11:07:52 | 2007-08-24T11:07:50 |
| [s] Observation end time (MET) | 304364639.426641 | 304364638.40164 |
| Observation end date | 2007-08-24T17:43:59 | 2007-08-24T17:43:58 |
| 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) | 2012.05.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2172129212618 |

A.2 Comments