

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 57893 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : May 12 2012

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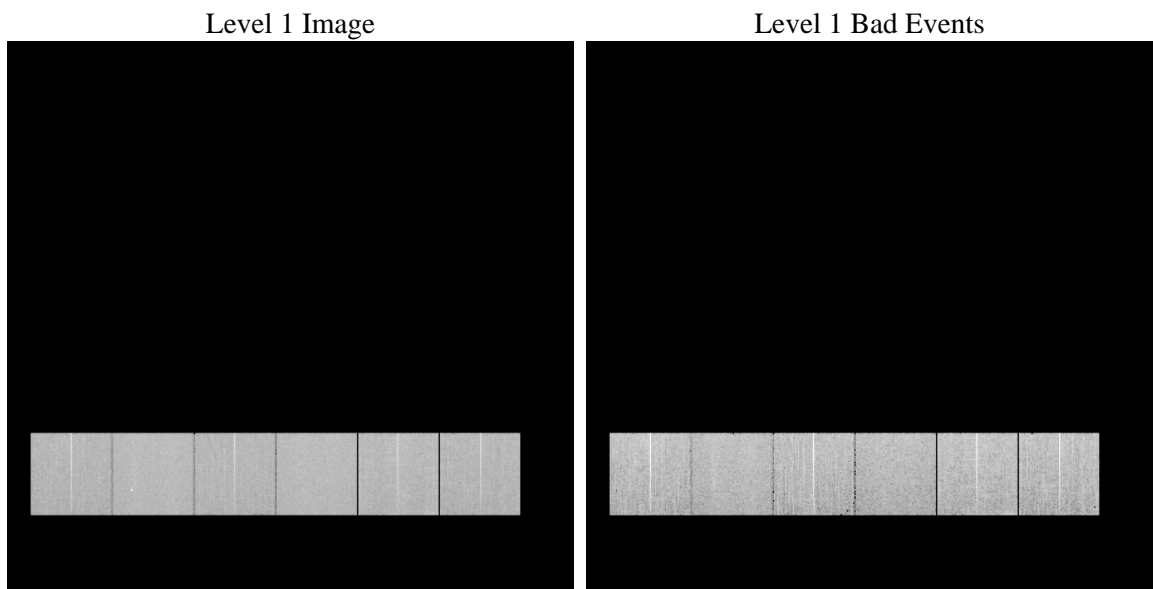
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 57893 | 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 | 159.31018067363 | Nominal RA [deg] |
| dec_nom | 2.9731557369322 | Nominal Dec [deg] |
| roll_nom | 257.89648003011 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8259.1999692917 | Sum of GTIs [s] |
| livetime | 8154.6170061874 | Livetime [s] |
| ontime4 | 8259.1999692917 | Sum of GTIs [s] |
| ontime5 | 8259.1999692917 | Sum of GTIs [s] |
| ontime6 | 8259.1999692917 | Sum of GTIs [s] |
| ontime7 | 8259.1999692917 | Sum of GTIs [s] |
| ontime8 | 8259.1999692917 | Sum of GTIs [s] |
| ontime9 | 8259.1999692917 | Sum of GTIs [s] |
| l2events | 630673 | Number of level 2 events |

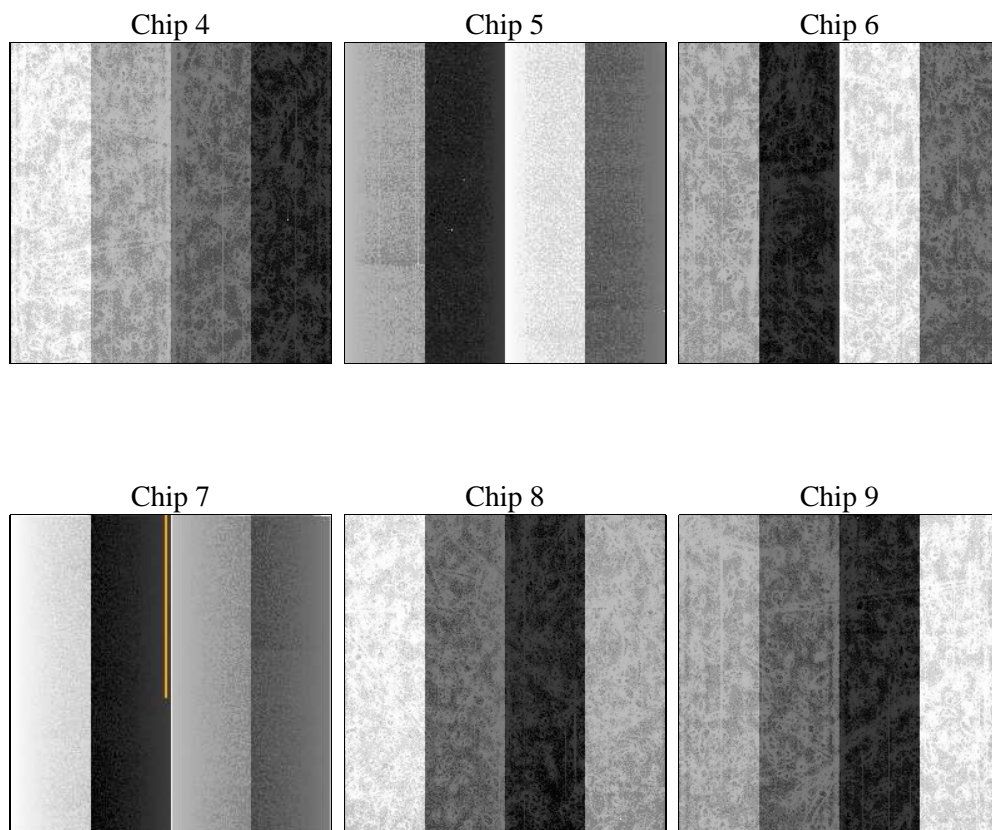
2 OBI

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 | 8259.1999692917 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 8259.1999692917 | Sum of GTIs [s] |
| date | 2012-05-12T03:55:54 | Date and time of file creation | ontime5 | 8259.1999692917 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 8259.1999692917 | Sum of GTIs [s] |
| | | | ontime7 | 8259.1999692917 | Sum of GTIs [s] |
| | | | ontime8 | 8259.1999692917 | Sum of GTIs [s] |
| | | | ontime9 | 8259.1999692917 | Sum of GTIs [s] |
| | | | l1events | 1125832 | 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 | 175591 | 198448 | 178657 | 198797 | 196216 | 178123 | grade 0 events | 55701 | 17878 | 54583 | 26278 | 59548 | 54739 |
| rejected events | 79362 | 70399 | 75105 | 65339 | 80616 | 77150 | | 31% | 9% | 30% | 13% | 30% | 30% |
| rejected % | 45% | 35% | 42% | 32% | 41% | 43% | grade 1 events | 552 | 202 | 349 | 160 | 376 | 386 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 14681 | 48954 | 18698 | 29287 | 20694 | 17316 |
| | | | | | | | | 8% | 24% | 10% | 14% | 10% | 9% |
| | | | | | | | grade 3 events | 6671 | 5430 | 6484 | 12206 | 8101 | 6724 |
| | | | | | | | | 3% | 2% | 3% | 6% | 4% | 3% |
| | | | | | | | grade 4 events | 6680 | 5167 | 6439 | 12132 | 8036 | 6542 |
| | | | | | | | | 3% | 2% | 3% | 6% | 4% | 3% |
| | | | | | | | grade 5 events | 4030 | 8749 | 4074 | 10501 | 5295 | 4577 |
| | | | | | | | | 2% | 4% | 2% | 5% | 2% | 2% |
| | | | | | | | grade 6 events | 12496 | 50620 | 17348 | 53555 | 19221 | 15652 |
| | | | | | | | | 7% | 25% | 9% | 26% | 9% | 8% |
| | | | | | | | grade 7 events | 74780 | 61448 | 70682 | 54678 | 74945 | 72187 |
| | | | | | | | | 42% | 30% | 39% | 27% | 38% | 40% |

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 | 159.3101806736254 |
| [deg] Pointing Dec | 0 | 2.973155736932206 |
| [deg] Pointing Roll | 0.0 | 257.8964800301063 |
| [mm] SIM focus pos | -1.429586 | -0.6828225247311905 |
| [mm] SIM defocus | 0.1037507710433287 | 0.8505141146731063 |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 323079047.28166 | 323079046.25666 |
| Observation start date | 2008-03-28T08:10:47 | 2008-03-28T08:10:46 |
| [s] Observation end time (MET) | 323102103.632782 | 323102102.60779 |
| Observation end date | 2008-03-28T14:35:04 | 2008-03-28T14:35:02 |
| 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) | 2012.05.15 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2591999692917 |

A.2 Comments