

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 58854 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 6 2012

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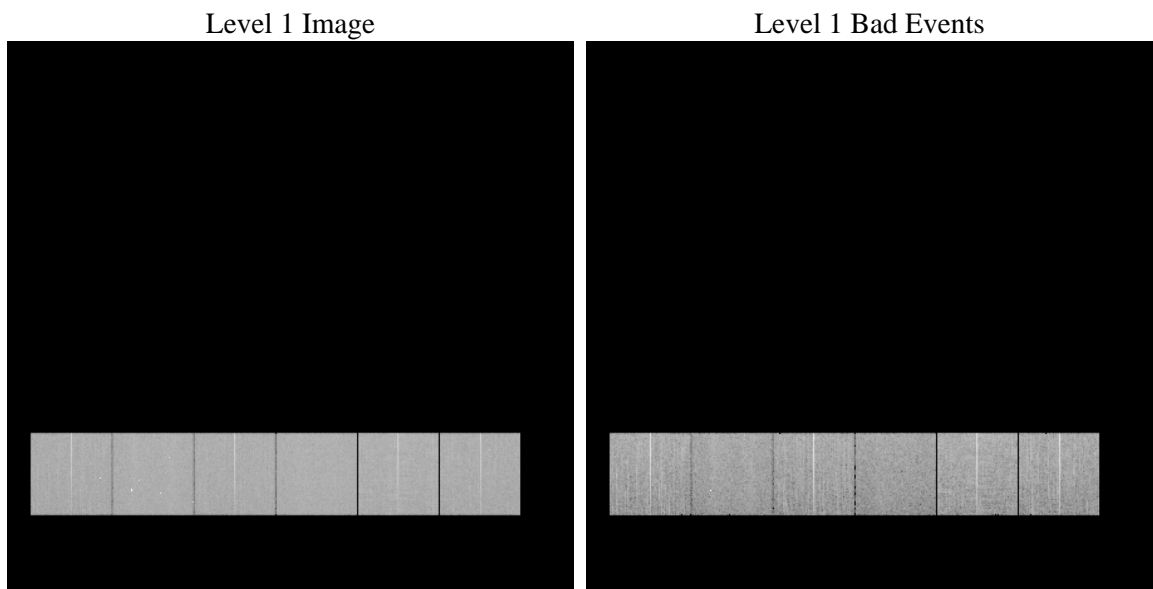
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58854 | 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 | 345.97924237701 | Nominal RA [deg] |
| dec_nom | -13.979684386961 | Nominal Dec [deg] |
| roll_nom | 101.90284911772 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8271.999969244 | Sum of GTIs [s] |
| livetime | 8167.254924833 | Livetime [s] |
| ontime4 | 8271.999969244 | Sum of GTIs [s] |
| ontime5 | 8271.999969244 | Sum of GTIs [s] |
| ontime6 | 8271.999969244 | Sum of GTIs [s] |
| ontime7 | 8271.999969244 | Sum of GTIs [s] |
| ontime8 | 8271.999969244 | Sum of GTIs [s] |
| ontime9 | 8271.999969244 | Sum of GTIs [s] |
| l2events | 884928 | Number of level 2 events |

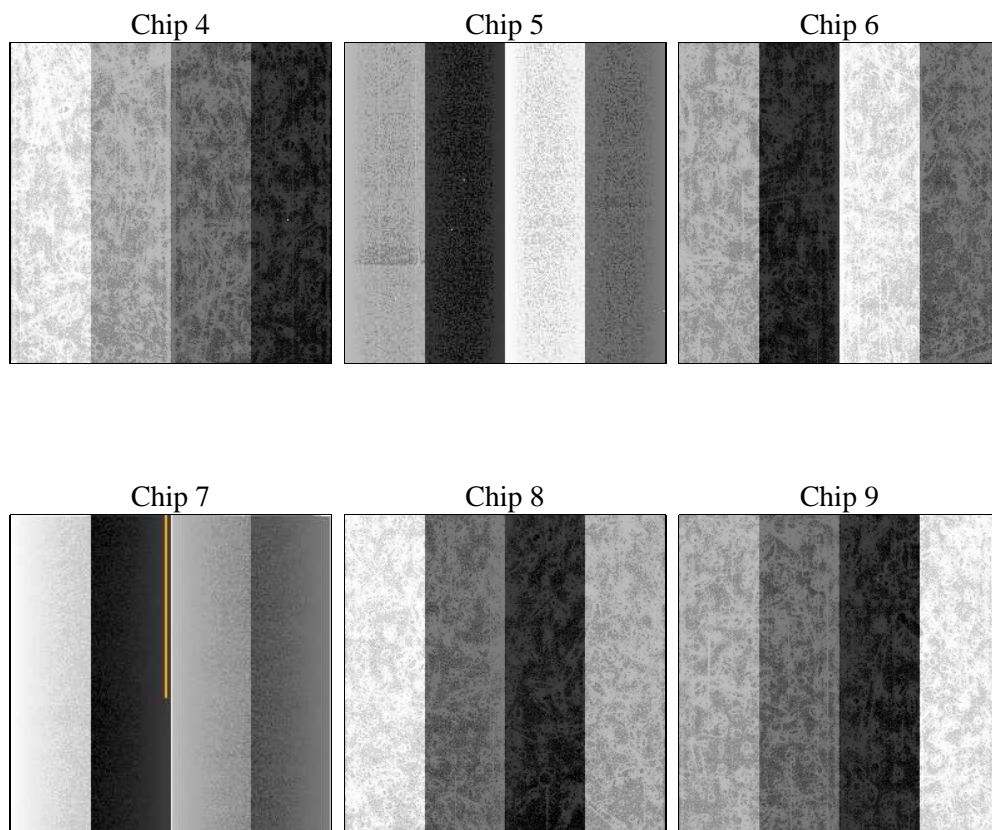
2 OBI

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 | 8.4.3.1 | Processing system revision | ontime | 8271.999969244 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 8271.999969244 | Sum of GTIs [s] |
| date | 2012-04-06T18:13:58 | Date and time of file creation | ontime5 | 8271.999969244 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 8271.999969244 | Sum of GTIs [s] |
| | | | ontime7 | 8271.999969244 | Sum of GTIs [s] |
| | | | ontime8 | 8271.999969244 | Sum of GTIs [s] |
| | | | ontime9 | 8271.999969244 | Sum of GTIs [s] |
| | | | l1events | 1389636 | 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 | 220256 | 235031 | 227017 | 239488 | 244552 | 223292 | grade 0 events | 83284 | 26152 | 80586 | 38386 | 86548 | 81724 |
| rejected events | 79322 | 68637 | 75307 | 61060 | 81887 | 75994 | | 37% | 11% | 35% | 16% | 35% | 36% |
| rejected % | 36% | 29% | 33% | 25% | 33% | 34% | grade 1 events | 819 | 235 | 426 | 174 | 539 | 506 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 20550 | 65200 | 27601 | 39317 | 28928 | 24322 |
| | | | | | | | | 9% | 27% | 12% | 16% | 11% | 10% |
| | | | | | | | grade 3 events | 9670 | 7798 | 9235 | 16961 | 10740 | 9488 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 9651 | 7037 | 9460 | 17117 | 10660 | 9621 |
| | | | | | | | | 4% | 2% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 5 events | 3931 | 9199 | 4177 | 9819 | 5238 | 4554 |
| | | | | | | | | 1% | 3% | 1% | 4% | 2% | 2% |
| | | | | | | | grade 6 events | 17779 | 60207 | 24828 | 66647 | 25789 | 22143 |
| | | | | | | | | 8% | 25% | 10% | 27% | 10% | 9% |
| | | | | | | | grade 7 events | 74572 | 59203 | 70704 | 51067 | 76110 | 70934 |
| | | | | | | | | 33% | 25% | 31% | 21% | 31% | 31% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-456789 | ACIS-456789 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | On-chip summing requested | N | N |
| Observation mode | SECONDARY | SECONDARY | Subarray requested | NONE | NONE |
| [deg] Pointing RA | 0 | 345.9792423770095 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -13.97968438696086 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 101.9028491177241 | | | |
| [mm] SIM focus pos | -0.684267 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 270762347.781327 | 270762346.75632 | | | |
| Observation start date | 2006-07-31T19:45:48 | 2006-07-31T19:45:46 | | | |
| [s] Observation end time (MET) | 270783657.532327 | 270783656.50732 | | | |
| Observation end date | 2006-08-01T01:40:58 | 2006-08-01T01:40:56 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|----------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.04.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.271999969244 |

A.2 Comments