

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 59931 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 12 2012

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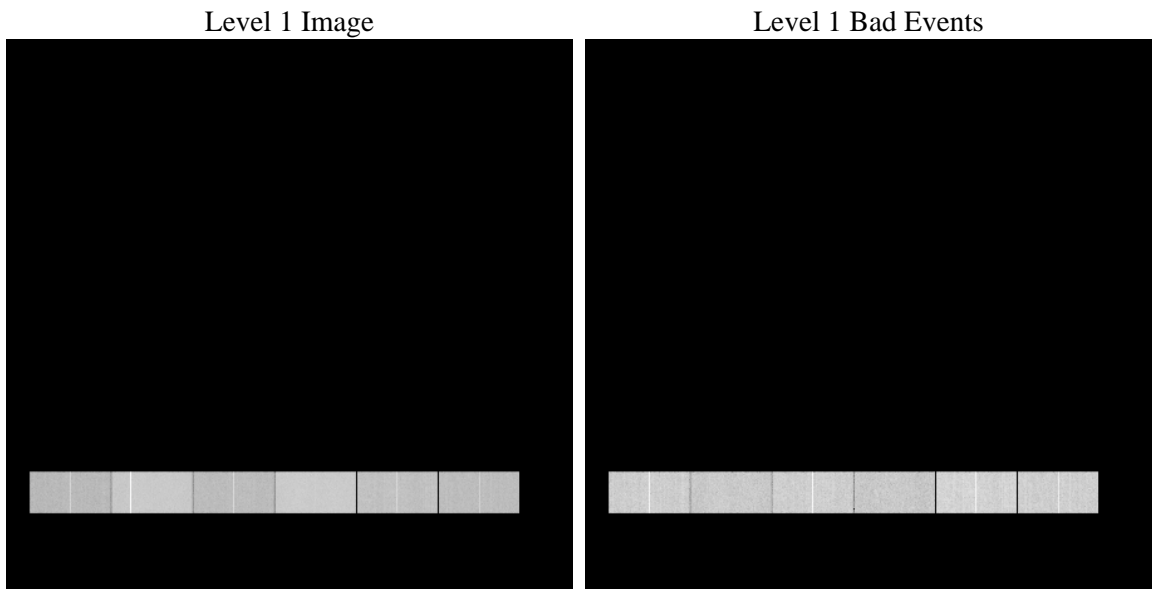
1 Front

| | | |
|----------|---|---------------------------------------|
| seq_num | | Sequence number |
| obs_id | 59931 | Observation id |
| title | ACIS-456789 diagnostics | Proposal title |
| observer | CHANDRA engineering request/realtime commanding | Principal investig |
| object | | Source name |
| ra_targ | 0.0 | Observer's specified target RA [deg] |
| dec_targ | 0.0 | Observer's specified target Dec [deg] |
| ra_nom | 108.88781590474 | Nominal RA [deg] |
| dec_nom | 20.825754729317 | Nominal Dec [deg] |
| roll_nom | 80.18840245746 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8408.0 | Sum of GTIs [s] |
| livetime | 8375.15625 | Livetime [s] |
| ontime4 | 5108.0753493607 | Sum of GTIs [s] |
| ontime5 | 8408.0 | Sum of GTIs [s] |
| ontime6 | 5506.4311416447 | Sum of GTIs [s] |
| ontime7 | 8408.0 | Sum of GTIs [s] |
| ontime8 | 5892.3830598295 | Sum of GTIs [s] |
| ontime9 | 5664.0221332014 | Sum of GTIs [s] |
| l2events | 776190 | Number of level 2 events |

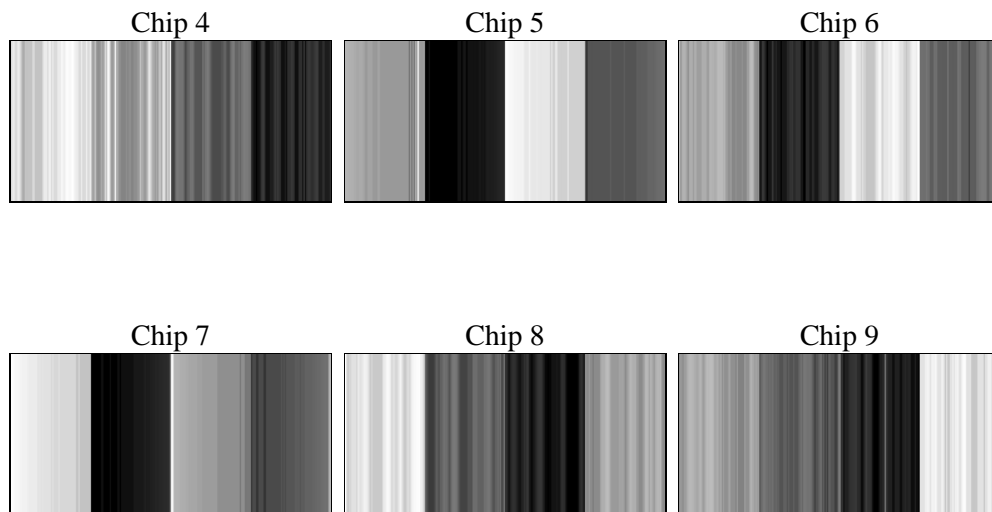
2 OBI

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 | 8408.0 | Sum of GTIs [s] |
| caldsver | 4.5.4 | | ontime4 | 5108.0753493607 | Sum of GTIs [s] |
| date | 2012-12-12T17:07:30 | Date and time of file creation | ontime5 | 8408.0 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 5506.4311416447 | Sum of GTIs [s] |
| | | | ontime7 | 8408.0 | Sum of GTIs [s] |
| | | | ontime8 | 5892.3830598295 | Sum of GTIs [s] |
| | | | ontime9 | 5664.0221332014 | Sum of GTIs [s] |
| | | | l1events | 1440252 | 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 | 173662 | 325558 | 194187 | 319491 | 230150 | 197204 | grade 0 events | 13864 | 42046 | 13061 | 49483 | 23422 | 15964 |
| rejected events | 99608 | 81828 | 102779 | 78676 | 119951 | 101873 | | 7% | 12% | 6% | 15% | 10% | 8% |
| rejected % | 57% | 25% | 52% | 24% | 52% | 51% | grade 1 events | 109 | 148 | 82 | 194 | 144 | 102 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 77610 | 107774 | 89382 | 64096 | 92529 | 87385 |
| | | | | | | | | 44% | 33% | 46% | 20% | 40% | 44% |
| | | | | | | | grade 3 events | 2335 | 6370 | 2141 | 19915 | 3841 | 2553 |
| | | | | | | | | 1% | 1% | 1% | 6% | 1% | 1% |
| | | | | | | | grade 4 events | 2399 | 6404 | 2111 | 19839 | 3858 | 2575 |
| | | | | | | | | 1% | 1% | 1% | 6% | 1% | 1% |
| | | | | | | | grade 5 events | 2675 | 8786 | 2586 | 10297 | 3537 | 2911 |
| | | | | | | | | 1% | 2% | 1% | 3% | 1% | 1% |
| | | | | | | | grade 6 events | 23919 | 81279 | 30264 | 87619 | 31741 | 29352 |
| | | | | | | | | 13% | 24% | 15% | 27% | 13% | 14% |
| | | | | | | | grade 7 events | 50751 | 72751 | 54560 | 68048 | 71078 | 56362 |
| | | | | | | | | 29% | 22% | 28% | 21% | 30% | 28% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-456789 | ACIS-456789 |
| Grating | NONE | NONE |
| Data mode | CC33_FAINT | CC33_FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 108.887815904743 |
| [deg] Pointing Dec | 0 | 20.82575472931692 |
| [deg] Pointing Roll | 0.0 | 80.18840245745992 |
| [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) | 218899807.445828 | 218899806.42082 |
| Observation start date | 2004-12-08T13:30:07 | 2004-12-08T13:30:06 |
| [s] Observation end time (MET) | 218921822.396819 | 218921821.37181 |
| Observation end date | 2004-12-08T19:37:02 | 2004-12-08T19:37:01 |
| Read mode | CONTINUOUS | CONTINUOUS |

| 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 | 0 | 0 |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2013.01.08 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.408 |

A.2 Comments