

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 61562 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 20 2012

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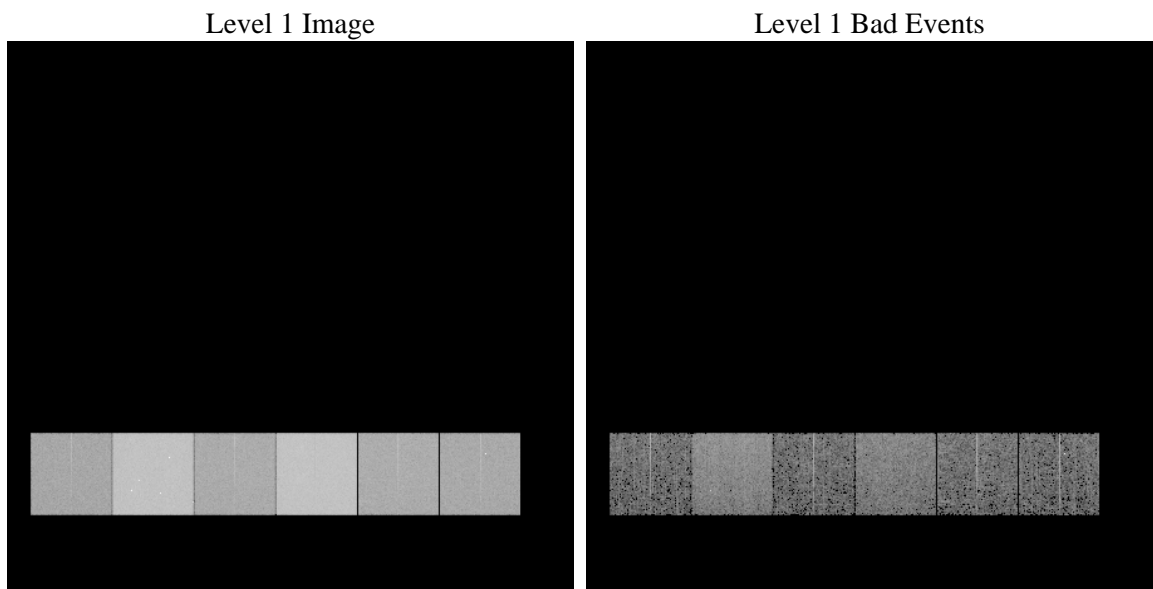
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 61562 | 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 | 294.99166227806 | Nominal RA [deg] |
| dec_nom | -26.972322793495 | Nominal Dec [deg] |
| roll_nom | 72.313560062842 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 5509.2331008017 | Sum of GTIs [s] |
| livetime | 5439.4718740174 | Livetime [s] |
| ontime4 | 2112.5416744351 | Sum of GTIs [s] |
| ontime5 | 5891.6251411885 | Sum of GTIs [s] |
| ontime6 | 2320.5824009925 | Sum of GTIs [s] |
| ontime7 | 5509.2331008017 | Sum of GTIs [s] |
| ontime8 | 2387.9889838696 | Sum of GTIs [s] |
| ontime9 | 2220.1102908403 | Sum of GTIs [s] |
| l2events | 1227148 | Number of level 2 events |

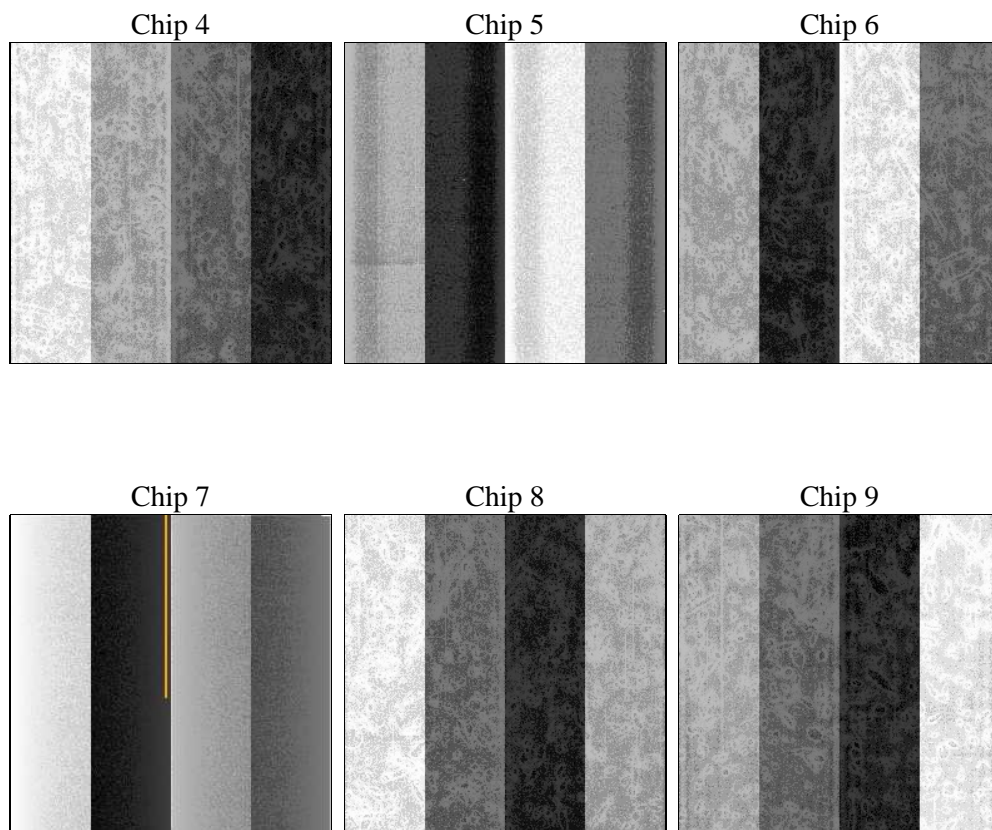
2 OBI

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 | 8.4.5 | Processing system revision | ontime | 5509.2331008017 | Sum of GTIs [s] |
| caldsver | 4.5.1.1 | | ontime4 | 2112.5416744351 | Sum of GTIs [s] |
| date | 2012-09-20T18:58:07 | Date and time of file creation | ontime5 | 5891.6251411885 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 2320.5824009925 | Sum of GTIs [s] |
| | | | ontime7 | 5509.2331008017 | Sum of GTIs [s] |
| | | | ontime8 | 2387.9889838696 | Sum of GTIs [s] |
| | | | ontime9 | 2220.1102908403 | Sum of GTIs [s] |
| | | | l1events | 1429391 | 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 | 148312 | 380471 | 172718 | 389201 | 178833 | 159856 | grade 0 events | 73297 | 88177 | 84748 | 92102 | 87317 | 77311 |
| rejected events | 18826 | 41665 | 18233 | 29450 | 20396 | 18946 | | 49% | 23% | 49% | 23% | 48% | 48% |
| rejected % | 12% | 10% | 10% | 7% | 11% | 11% | grade 1 events | 430 | 391 | 455 | 259 | 446 | 1059 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 22785 | 116302 | 26765 | 80095 | 27815 | 25070 |
| | | | | | | | | 15% | 30% | 15% | 20% | 15% | 15% |
| | | | | | | | grade 3 events | 7995 | 22897 | 9517 | 36687 | 10039 | 8655 |
| | | | | | | | | 5% | 6% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 4 events | 8159 | 22520 | 9428 | 36422 | 9988 | 8734 |
| | | | | | | | | 5% | 5% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 5 events | 1242 | 7984 | 1441 | 6175 | 1547 | 1379 |
| | | | | | | | | 0% | 2% | 0% | 1% | 0% | 0% |
| | | | | | | | grade 6 events | 17586 | 89104 | 24365 | 114549 | 23278 | 21140 |
| | | | | | | | | 11% | 23% | 14% | 29% | 13% | 13% |
| | | | | | | | grade 7 events | 16818 | 33096 | 15999 | 22912 | 18403 | 16508 |
| | | | | | | | | 11% | 8% | 9% | 5% | 10% | 10% |

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 | 294.9916622780581 |
| [deg] Pointing Dec | 0 | -26.97232279349485 |
| [deg] Pointing Roll | 0.0 | 72.31356006284187 |
| [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) | 110566558.371755 | 110566557.6033 |
| Observation start date | 2001-07-03T16:55:58 | 2001-07-03T16:55:57 |
| [s] Observation end time (MET) | 110598726.973011 | 110598726.20456 |
| Observation end date | 2001-07-04T01:52:07 | 2001-07-04T01:52:06 |
| 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 | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.09.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.5092331008017 |

A.2 Comments