

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 61910 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 5 2012

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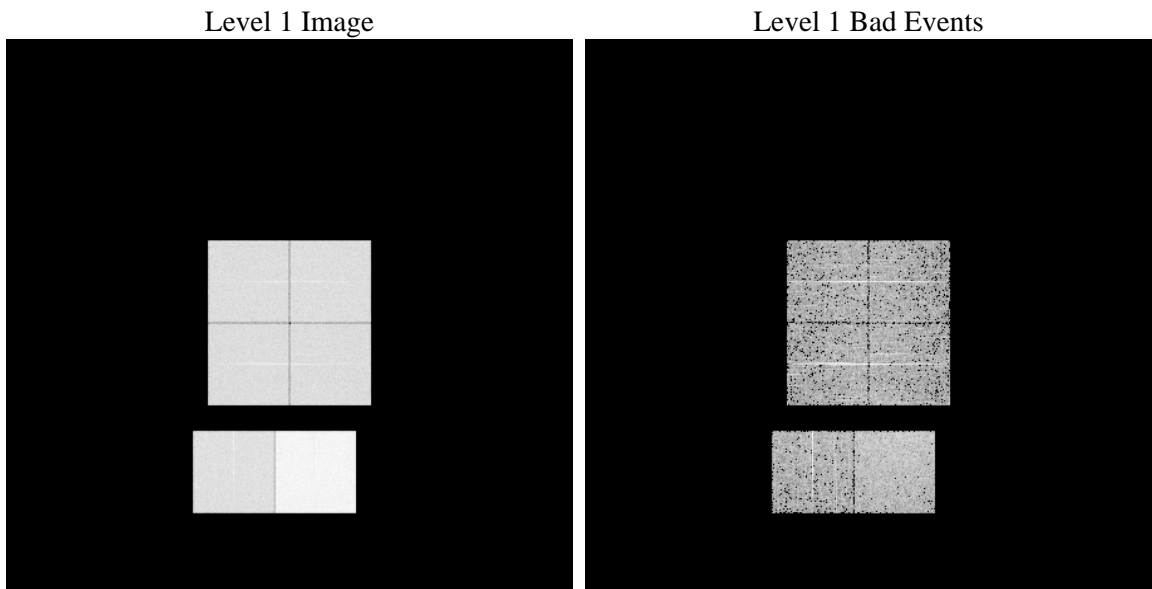
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 61910 | Observation id |
| title | ACIS-012367 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 | 327.92813101738 | Nominal RA [deg] |
| dec_nom | -42.327559542649 | Nominal Dec [deg] |
| roll_nom | 316.40098074518 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 5318.1603509784 | Sum of GTIs [s] |
| livetime | 5250.8186024026 | Livetime [s] |
| ontime0 | 2320.4354230016 | Sum of GTIs [s] |
| ontime1 | 2362.6098434329 | Sum of GTIs [s] |
| ontime2 | 2262.1786634922 | Sum of GTIs [s] |
| ontime3 | 2239.2100502104 | Sum of GTIs [s] |
| ontime6 | 2446.9586939067 | Sum of GTIs [s] |
| ontime7 | 5318.1603509784 | Sum of GTIs [s] |
| l2events | 1262262 | Number of level 2 events |

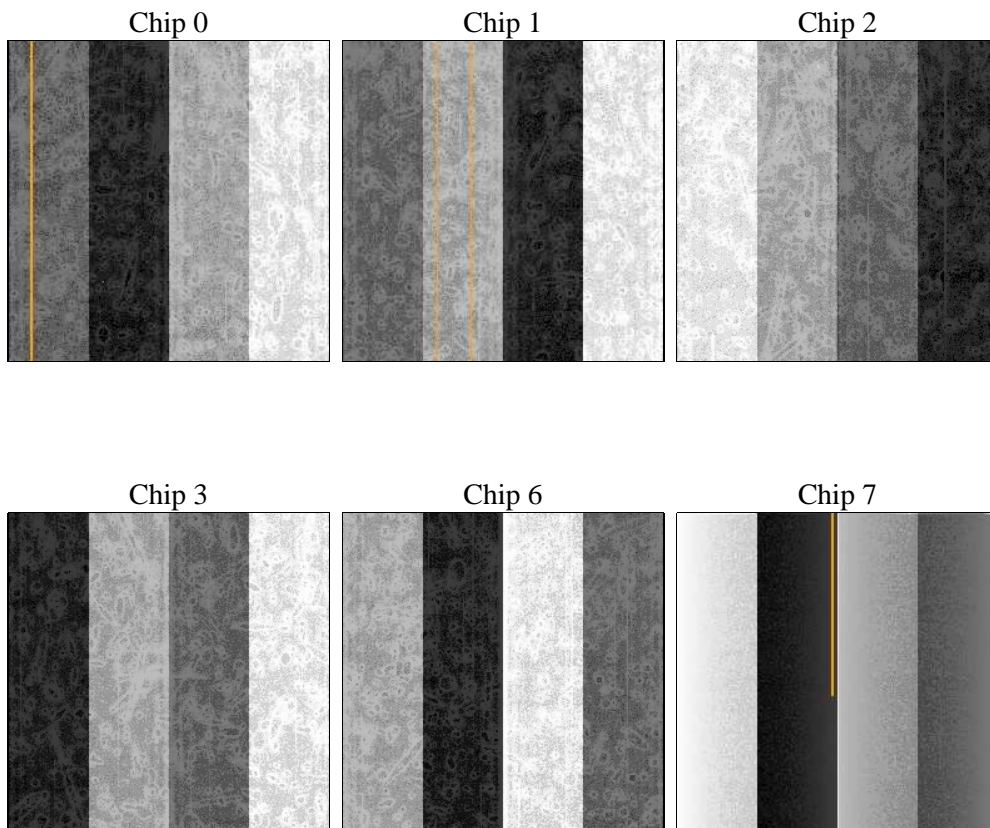
2 OBI

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 | 5318.1603509784 | Sum of GTIs [s] |
| caldsver | 4.5.1.1 | | ontime0 | 2320.4354230016 | Sum of GTIs [s] |
| date | 2012-09-05T15:21:12 | Date and time of file creation | ontime1 | 2362.6098434329 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 2262.1786634922 | Sum of GTIs [s] |
| | | | ontime3 | 2239.2100502104 | Sum of GTIs [s] |
| | | | ontime6 | 2446.9586939067 | Sum of GTIs [s] |
| | | | ontime7 | 5318.1603509784 | Sum of GTIs [s] |
| | | | l1events | 1431400 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|-------|--------|-------|-------|--------|--------|
| level 1 events | 193693 | 197835 | 191943 | 190773 | 214952 | 442204 | grade 0 events | 97575 | 100090 | 97072 | 97105 | 106839 | 107947 |
| rejected events | 17556 | 16909 | 18228 | 18081 | 18997 | 26410 | | 50% | 50% | 50% | 50% | 49% | 24% |
| rejected % | 9% | 8% | 9% | 9% | 8% | 5% | grade 1 events | 504 | 476 | 522 | 559 | 544 | 258 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 31110 | 31801 | 30078 | 30010 | 33856 | 92090 |
| | | | | | | | | 16% | 16% | 15% | 15% | 15% | 20% |
| | | | | | | | grade 3 events | 11191 | 11366 | 10965 | 10897 | 12114 | 42873 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 4 events | 10980 | 11421 | 10927 | 11026 | 12073 | 42427 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 5 events | 1363 | 1339 | 1247 | 1379 | 1527 | 5859 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 1% |
| | | | | | | | grade 6 events | 25281 | 26248 | 24673 | 23654 | 31073 | 130457 |
| | | | | | | | | 13% | 13% | 12% | 12% | 14% | 29% |
| | | | | | | | grade 7 events | 15689 | 15094 | 16459 | 16143 | 16926 | 20293 |
| | | | | | | | | 8% | 7% | 8% | 8% | 7% | 4% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012367 | ACIS-012367 | 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 | 327.9281310173785 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -42.32755954264927 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 316.4009807451775 | | | |
| [mm] SIM focus pos | -0.782348 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.8505141146731063 | | | |
| [mm] SIM translation stage pos | -233.592463 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 86117384.131373 | 86117383.362902 | | | |
| Observation start date | 2000-09-23T17:29:44 | 2000-09-23T17:29:43 | | | |
| [s] Observation end time (MET) | 86166774.783233 | 86166774.014761 | | | |
| Observation end date | 2000-09-24T07:12:55 | 2000-09-24T07:12:54 | | | |
| 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) | 2012.09.14 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.3181603509784 |

A.2 Comments