

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60867 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 21 2012

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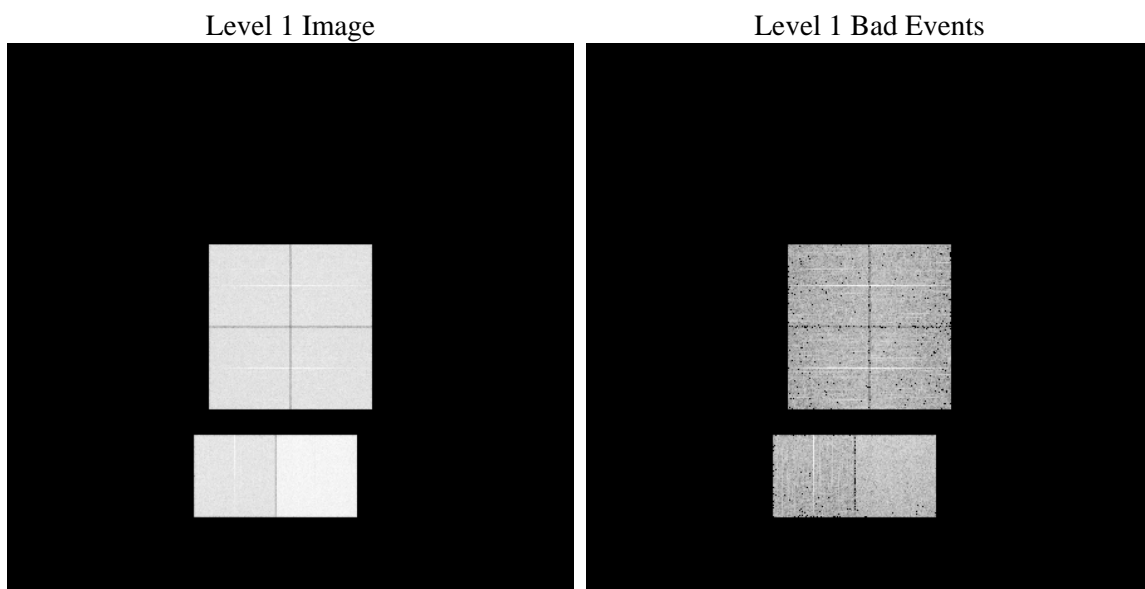
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 60867 | 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 | 143.95764267596 | Nominal RA [deg] |
| dec_nom | 48.993136209203 | Nominal Dec [deg] |
| roll_nom | 161.00188470324 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 7797.1464751065 | Sum of GTIs [s] |
| livetime | 7698.4143115607 | Livetime [s] |
| ontime0 | 4226.3019630611 | Sum of GTIs [s] |
| ontime1 | 4326.772639662 | Sum of GTIs [s] |
| ontime2 | 4009.1549018621 | Sum of GTIs [s] |
| ontime3 | 4129.0712905824 | Sum of GTIs [s] |
| ontime6 | 4393.9504628181 | Sum of GTIs [s] |
| ontime7 | 7797.1464751065 | Sum of GTIs [s] |
| l2events | 1191940 | Number of level 2 events |

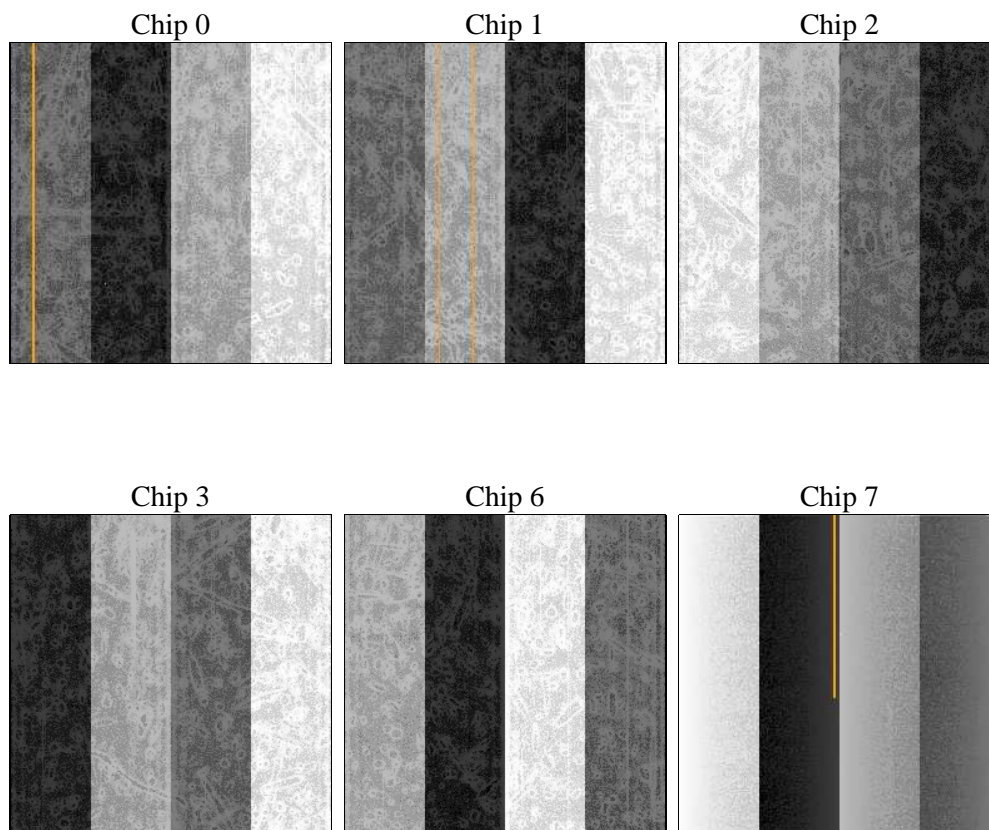
2 OBI

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 | 7797.1464751065 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime0 | 4226.3019630611 | Sum of GTIs [s] |
| date | 2012-10-21T12:16:02 | Date and time of file creation | ontime1 | 4326.772639662 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 4009.1549018621 | Sum of GTIs [s] |
| | | | ontime3 | 4129.0712905824 | Sum of GTIs [s] |
| | | | ontime6 | 4393.9504628181 | Sum of GTIs [s] |
| | | | ontime7 | 7797.1464751065 | Sum of GTIs [s] |
| | | | l1events | 1427288 | 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 | 204826 | 211565 | 198434 | 204202 | 223112 | 385149 | grade 0 events | 98745 | 101183 | 95597 | 99191 | 105709 | 86355 |
| rejected events | 26955 | 28256 | 28044 | 27988 | 29309 | 40569 | | 48% | 47% | 48% | 48% | 47% | 22% |
| rejected % | 13% | 13% | 14% | 13% | 13% | 10% | grade 1 events | 535 | 472 | 552 | 568 | 493 | 263 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 30932 | 32408 | 28866 | 30033 | 33117 | 76191 |
| | | | | | | | | 15% | 15% | 14% | 14% | 14% | 19% |
| | | | | | | | grade 3 events | 11445 | 11537 | 11008 | 11385 | 12091 | 35110 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 4 events | 11338 | 11541 | 11263 | 11487 | 11956 | 34613 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 5 events | 1923 | 1958 | 1704 | 1974 | 2160 | 7873 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 2% |
| | | | | | | | grade 6 events | 25411 | 26640 | 23656 | 24118 | 30930 | 112311 |
| | | | | | | | | 12% | 12% | 11% | 11% | 13% | 29% |
| | | | | | | | grade 7 events | 24497 | 25826 | 25788 | 25446 | 26656 | 32433 |
| | | | | | | | | 11% | 12% | 12% | 12% | 11% | 8% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 143.9576426759645 |
| [deg] Pointing Dec | 0 | 48.99313620920347 |
| [deg] Pointing Roll | 0.0 | 161.0018847032359 |
| [mm] SIM focus pos | -0.782348 | -1.038866356238299 |
| [mm] SIM defocus | 0 | 0.4944702831659975 |
| [mm] SIM translation stage pos | -233.592463 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 160378003.901303 | 160378002.8766 |
| Observation start date | 2003-01-31T05:26:44 | 2003-01-31T05:26:42 |
| [s] Observation end time (MET) | 160400490.352255 | 160400489.32754 |
| Observation end date | 2003-01-31T11:41:30 | 2003-01-31T11:41:29 |
| 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) | 2012.11.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.7971464751065 |

A.2 Comments