

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 62842 - L2 Version 001  
Chandra X-Ray Center

L2 Processing Date : Jun 8 2006

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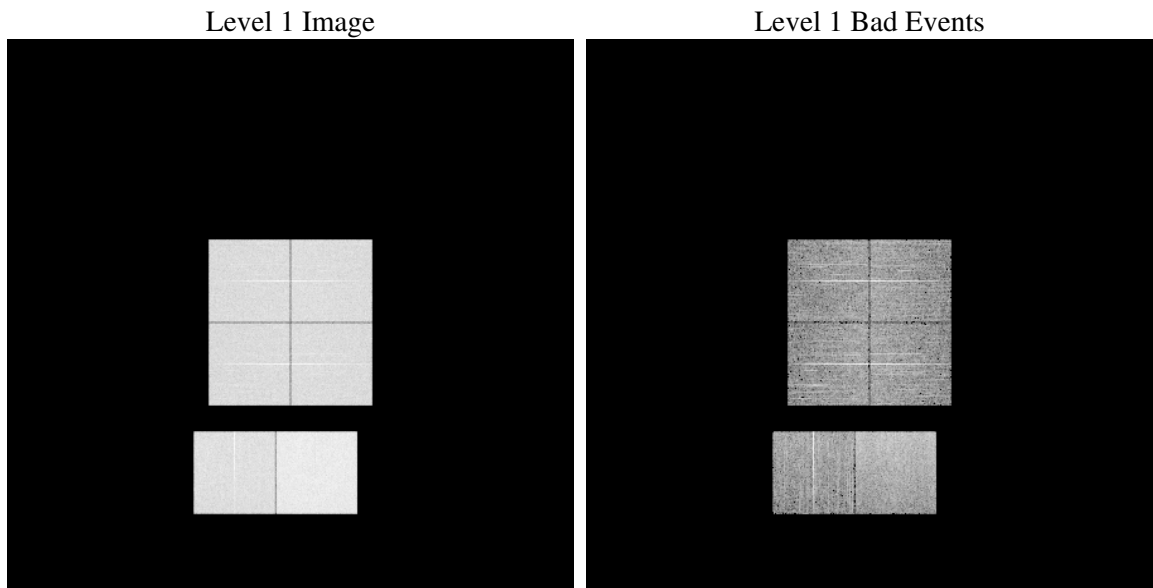
# 1 Front

|          |   |
|----------|---|
| seq_num  | &#160   |
| obs_id   | 62842   |
| title    | ACIS-012367 diagnostics                         |
| observer | CHANDRA engineering request/realtime commanding |
| object   | &#160   |
| dtcycle  | 0   |
| cycle    | P   |
| ra_targ  | 0.0   |
| dec_targ | 0.0   |
| ra_nom   | 84.022411364042                                 |
| dec_nom  | 16.981087724876                                 |
| roll_nom | 285.68959790268                                 |
| revision | 2   |
| ontime   | 9683.1999639273                                 |
| livetime | 9560.585455461                                  |
| ontime0  | 6827.9656281471                                 |
| ontime1  | 6957.54584077                                   |
| ontime2  | 6581.7342362404                                 |
| ontime3  | 6746.8601486385                                 |
| ontime6  | 7178.114862591                                  |
| ontime7  | 9683.1999639273                                 |
| l2events | 1431443   |

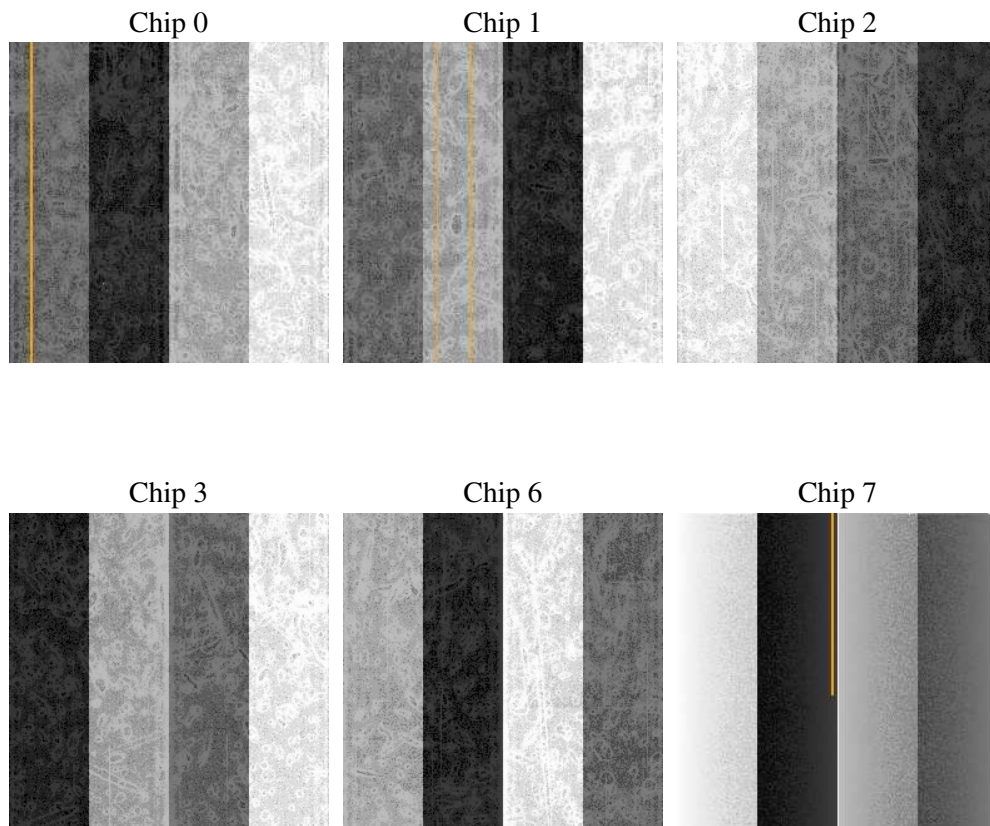
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

|          |                     |
|----------|---------------------|
| obi_num  | 0                   |
| ascdsver | 7.6.7.2             |
| caldbver | 3.2.2               |
| date     | 2006-06-08T14:50:09 |
| revision | 2                   |

|                |                 |
|----------------|-----------------|
| sched_exp_time | 0.0             |
| ontime         | 9684.1138116121 |
| ontime0        | 6828.8192144334 |
| ontime1        | 6958.4596884549 |
| ontime2        | 6582.5057425201 |
| ontime3        | 6747.7958149314 |
| ontime6        | 7178.8453288972 |
| ontime7        | 9684.1138116121 |
| l1events       | 1753203         |

### 2.1.4 Events

|                 | ccd 0  | ccd 1  | ccd 2  | ccd 3  | ccd 6  | ccd 7  |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events  | 265861 | 272815 | 263041 | 268798 | 294020 | 388668 |
| rejected events | 36559  | 38270  | 38397  | 39008  | 40964  | 59025  |
| rejected %      | 13%    | 14%    | 14%    | 14%    | 13%    | 15%    |

|                | ccd 0  | ccd 1  | ccd 2  | ccd 3  | ccd 6  | ccd 7  |
|----------------|--------|--------|--------|--------|--------|--------|
| grade 0 events | 127216 | 128798 | 125938 | 129640 | 137789 | 57887  |
|                | 47%    | 47%    | 47%    | 48%    | 46%    | 14%    |
| grade 1 events | 629    | 562    | 612    | 640    | 550    | 160    |
|                | 0%     | 0%     | 0%     | 0%     | 0%     | 0%     |
| grade 2 events | 39648  | 41452  | 38115  | 38856  | 43357  | 100397 |
|                | 14%    | 15%    | 14%    | 14%    | 14%    | 25%    |
| grade 3 events | 14632  | 15088  | 14762  | 14946  | 15588  | 23611  |
|                | 5%     | 5%     | 5%     | 5%     | 5%     | 6%     |
| grade 4 events | 14612  | 14922  | 14499  | 14757  | 15890  | 23250  |
|                | 5%     | 5%     | 5%     | 5%     | 5%     | 5%     |
| grade 5 events | 2597   | 2811   | 2438   | 2822   | 2991   | 7328   |
|                | 0%     | 1%     | 0%     | 1%     | 1%     | 1%     |
| grade 6 events | 33194  | 34285  | 31330  | 31591  | 40432  | 124498 |
|                | 12%    | 12%    | 11%    | 11%    | 13%    | 32%    |
| grade 7 events | 33333  | 34897  | 35347  | 35546  | 37423  | 51537  |
|                | 12%    | 12%    | 13%    | 13%    | 12%    | 13%    |

## 2.2 Compared Parameters

| Parameter                         | Planned             | Actual               | Parameter                       | Planned   | Actual  |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument                        | ACIS                | ACIS                 | Obspar format version number    | 6         | 6       |
| 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    |
| Pointing RA                       | 0                   | 84.02241136404248    | Alternating exposures requested | N         | N       |
| Pointing Dec                      | 0                   | 16.98108772487643    | Primary exposure time           | 0.000000  | 3.2     |
| Pointing Roll                     | 0.0                 | 285.6895979026808    |                                 |           |         |
| SIM focus pos (mm)                | -0.782348           | -0.7809083437167272  |                                 |           |         |
| SIM defocus (mm)                  | 0                   | 0.7524282956875696   |                                 |           |         |
| SIM translation stage pos (mm)    | -233.592463         | 250.466033080201     |                                 |           |         |
| SIM translation stage offset (mm) | 0                   | -0.01005468664627074 |                                 |           |         |
| Observation start time            | 190153103.072178    | 190153102.04747      |                                 |           |         |
| Observation start date            | 2004-01-10T20:18:23 | 2004-01-10T20:18:22  |                                 |           |         |
| Observation end time              | 190164646.62268     | 190164645.59798      |                                 |           |         |
| Observation end date              | 2004-01-10T23:30:47 | 2004-01-10T23:30:45  |                                 |           |         |
| Read mode                         | TIMED               | TIMED                |                                 |           |         |

## 2.3 Aspect



## 2.4 Star Slots

## 2.5 FID Slots



## A Summary

### A.1 Status

|                            |               |
|----------------------------|---------------|
| V&V Scientist              | Beth Sundheim |
| V&V Date (YYYY-MM-DD)      | 2006.06.08    |
| V&V Edition                | 1             |
| V&V Disposition and Status | OK            |
| V&V Charge Time            | 9.68319996    |

### A.2 Comments