

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 54784 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Mar 16 2012

Contents

| | | |
|----------|-------------------------------|----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Star Slots | 6 |
| 2.4 | FID Slots | 6 |
| A | Summary | 7 |
| A.1 | Status | 7 |
| A.2 | Comments | 7 |

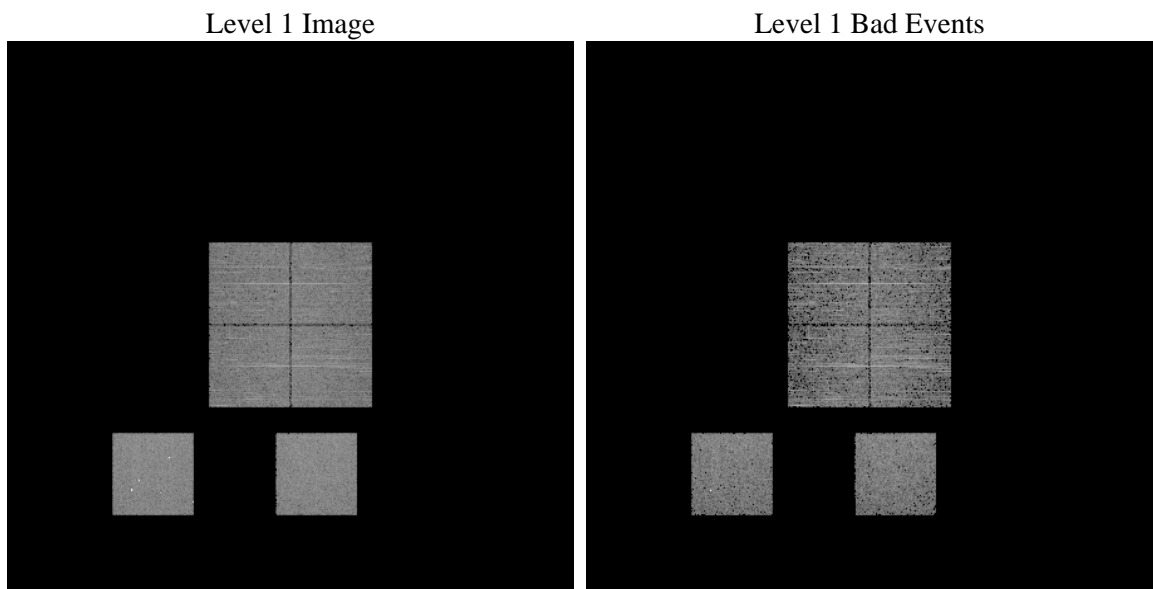
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 54784 | Observation id |
| title | ACIS-012357 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 | 150.52409314529 | Nominal RA [deg] |
| dec_nom | 2.9805282051303 | Nominal Dec [deg] |
| roll_nom | 267.65747216936 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 4460.7999834418 | Sum of GTIs [s] |
| livetime | 4404.3146480802 | Livetime [s] |
| ontime0 | 4460.7999834418 | Sum of GTIs [s] |
| ontime1 | 4460.7999834418 | Sum of GTIs [s] |
| ontime2 | 4460.7999834418 | Sum of GTIs [s] |
| ontime3 | 4460.7999834418 | Sum of GTIs [s] |
| ontime5 | 4460.7999834418 | Sum of GTIs [s] |
| ontime7 | 4460.7999834418 | Sum of GTIs [s] |
| l2events | 150323 | Number of level 2 events |

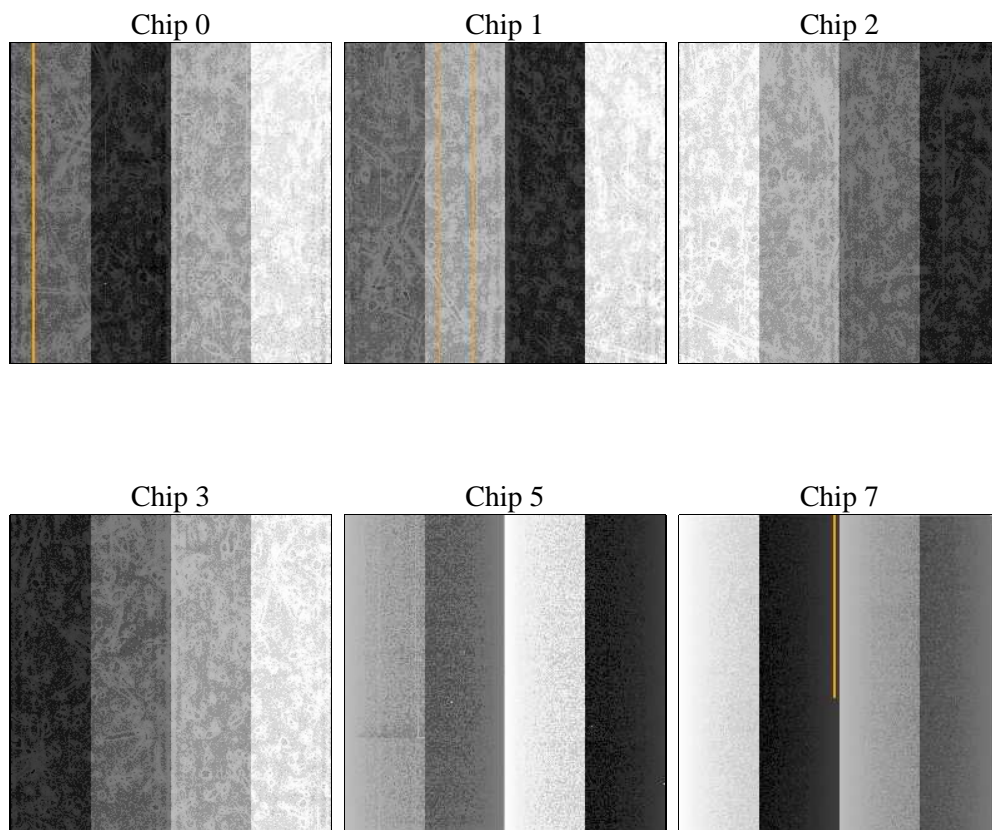
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3 | Processing system revision | ontime | 4460.7999834418 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime0 | 4460.7999834418 | Sum of GTIs [s] |
| date | 2012-03-16T17:20:56 | Date and time of file creation | ontime1 | 4460.7999834418 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 4460.7999834418 | Sum of GTIs [s] |
| | | | ontime3 | 4460.7999834418 | Sum of GTIs [s] |
| | | | ontime5 | 4460.7999834418 | Sum of GTIs [s] |
| | | | ontime7 | 4460.7999834418 | Sum of GTIs [s] |
| | | | l1events | 302111 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 43221 | 43619 | 44574 | 46121 | 64389 | 60187 | grade 0 events | 11801 | 11458 | 12167 | 11843 | 6869 | 6006 |
| rejected events | 21124 | 21433 | 22183 | 24093 | 26630 | 25795 | | 27% | 26% | 27% | 25% | 10% | 9% |
| rejected % | 48% | 49% | 49% | 52% | 41% | 42% | grade 1 events | 73 | 66 | 71 | 66 | 93 | 48 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 3997 | 4391 | 3837 | 3812 | 13131 | 7469 |
| | | | | | | | | 9% | 10% | 8% | 8% | 20% | 12% |
| | | | | | | | grade 3 events | 1487 | 1392 | 1503 | 1510 | 1451 | 3056 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 5% |
| | | | | | | | grade 4 events | 1498 | 1442 | 1572 | 1543 | 1361 | 3184 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 5% |
| | | | | | | | grade 5 events | 1559 | 1549 | 1368 | 1736 | 3178 | 3962 |
| | | | | | | | | 3% | 3% | 3% | 3% | 4% | 6% |
| | | | | | | | grade 6 events | 3314 | 3503 | 3312 | 3320 | 14947 | 14677 |
| | | | | | | | | 7% | 8% | 7% | 7% | 23% | 24% |
| | | | | | | | grade 7 events | 19492 | 19818 | 20744 | 22291 | 23359 | 21785 |
| | | | | | | | | 45% | 45% | 46% | 48% | 36% | 36% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012357 | ACIS-012357 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | SECONDARY | SECONDARY | On-chip summing requested | N | N |
| [deg] Pointing RA | 0 | 150.5240931452878 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 2.980528205130269 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 267.6574721693582 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 448260285.114633 | 448260284.08963 | | | |
| Observation start date | 2012-03-16T04:44:45 | 2012-03-16T04:44:44 | | | |
| [s] Observation end time (MET) | 448267503.165016 | 448267502.14002 | | | |
| Observation end date | 2012-03-16T06:45:03 | 2012-03-16T06:45:02 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.03.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.4607999834418 |

A.2 Comments