

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 59035 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Mar 29 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 |

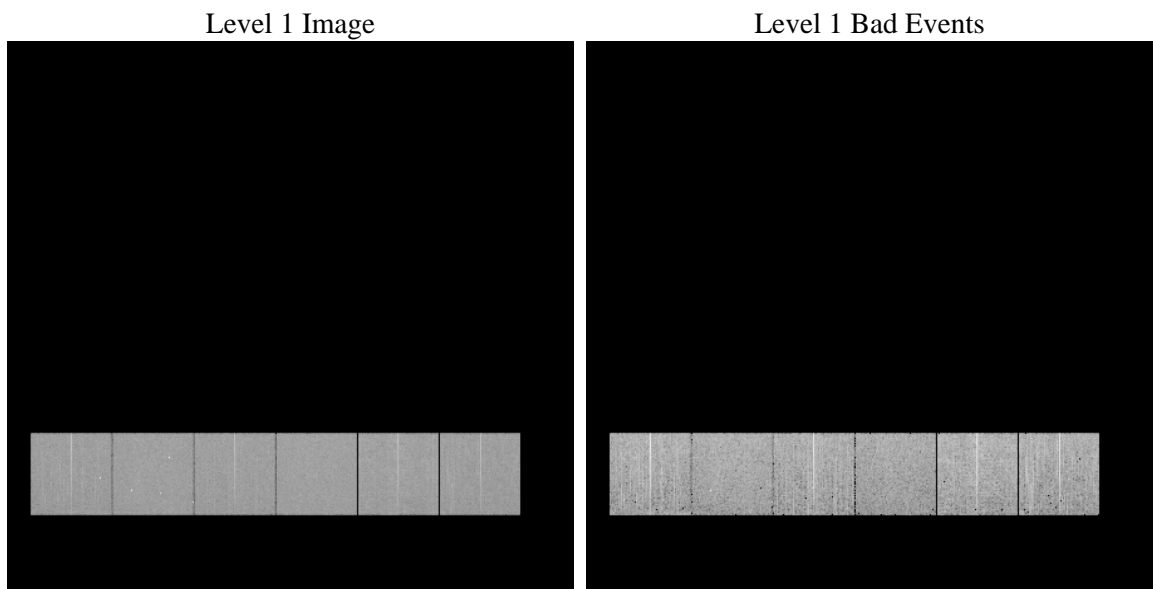
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 59035 | 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 | 180.02400470093 | Nominal RA [deg] |
| dec_nom | -33.498259827902 | Nominal Dec [deg] |
| roll_nom | 335.3182279959 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 5573.9255058467 | Sum of GTIs [s] |
| livetime | 5503.3451048767 | Livetime [s] |
| ontime4 | 5574.3999792337 | Sum of GTIs [s] |
| ontime5 | 5574.3999792337 | Sum of GTIs [s] |
| ontime6 | 5574.3999792337 | Sum of GTIs [s] |
| ontime7 | 5573.9255058467 | Sum of GTIs [s] |
| ontime8 | 5574.3999792337 | Sum of GTIs [s] |
| ontime9 | 5573.8844658434 | Sum of GTIs [s] |
| l2events | 653410 | Number of level 2 events |

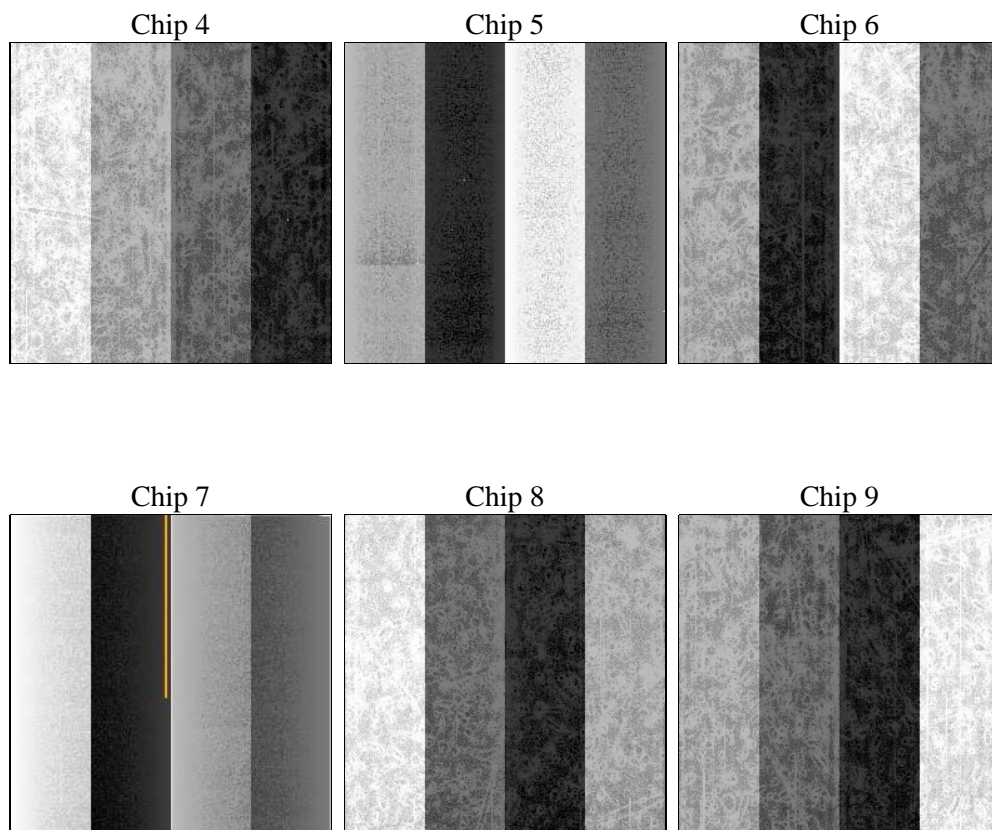
2 OBI

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 | 5573.9255058467 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime4 | 5574.3999792337 | Sum of GTIs [s] |
| date | 2012-03-29T13:11:06 | Date and time of file creation | ontime5 | 5574.3999792337 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 5574.3999792337 | Sum of GTIs [s] |
| | | | ontime7 | 5573.9255058467 | Sum of GTIs [s] |
| | | | ontime8 | 5574.3999792337 | Sum of GTIs [s] |
| | | | ontime9 | 5573.8844658434 | Sum of GTIs [s] |
| | | | l1events | 995338 | 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 | 159015 | 166645 | 163831 | 170514 | 175147 | 160186 | grade 0 events | 61187 | 24391 | 61188 | 29592 | 63127 | 59650 |
| rejected events | 53168 | 45212 | 50184 | 40321 | 55051 | 50879 | | 38% | 14% | 37% | 17% | 36% | 37% |
| rejected % | 33% | 27% | 30% | 23% | 31% | 31% | grade 1 events | 512 | 230 | 366 | 128 | 395 | 433 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 16603 | 43158 | 19933 | 28520 | 21600 | 18859 |
| | | | | | | | | 10% | 25% | 12% | 16% | 12% | 11% |
| | | | | | | | grade 3 events | 7148 | 6842 | 7100 | 12851 | 8272 | 7210 |
| | | | | | | | | 4% | 4% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 7277 | 6743 | 7247 | 12508 | 8039 | 7068 |
| | | | | | | | | 4% | 4% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 5 events | 2823 | 6719 | 2964 | 7134 | 3618 | 3019 |
| | | | | | | | | 1% | 4% | 1% | 4% | 2% | 1% |
| | | | | | | | grade 6 events | 13691 | 40378 | 18236 | 46722 | 19126 | 16520 |
| | | | | | | | | 8% | 24% | 11% | 27% | 10% | 10% |
| | | | | | | | grade 7 events | 49774 | 38184 | 46797 | 33059 | 50970 | 47427 |
| | | | | | | | | 31% | 22% | 28% | 19% | 29% | 29% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-456789 | ACIS-456789 | 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 | 180.0240047009268 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -33.4982598279016 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 335.3182279958958 | | | |
| [mm] SIM focus pos | -0.684267 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 260438717.448974 | 260438716.42395 | | | |
| Observation start date | 2006-04-03T08:05:17 | 2006-04-03T08:05:16 | | | |
| [s] Observation end time (MET) | 260457399.099845 | 260457398.07482 | | | |
| Observation end date | 2006-04-03T13:16:39 | 2006-04-03T13:16:38 | | | |
| 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) | 2012.03.30 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.5739255058467 |

A.2 Comments