

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58215 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : May 1 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 |

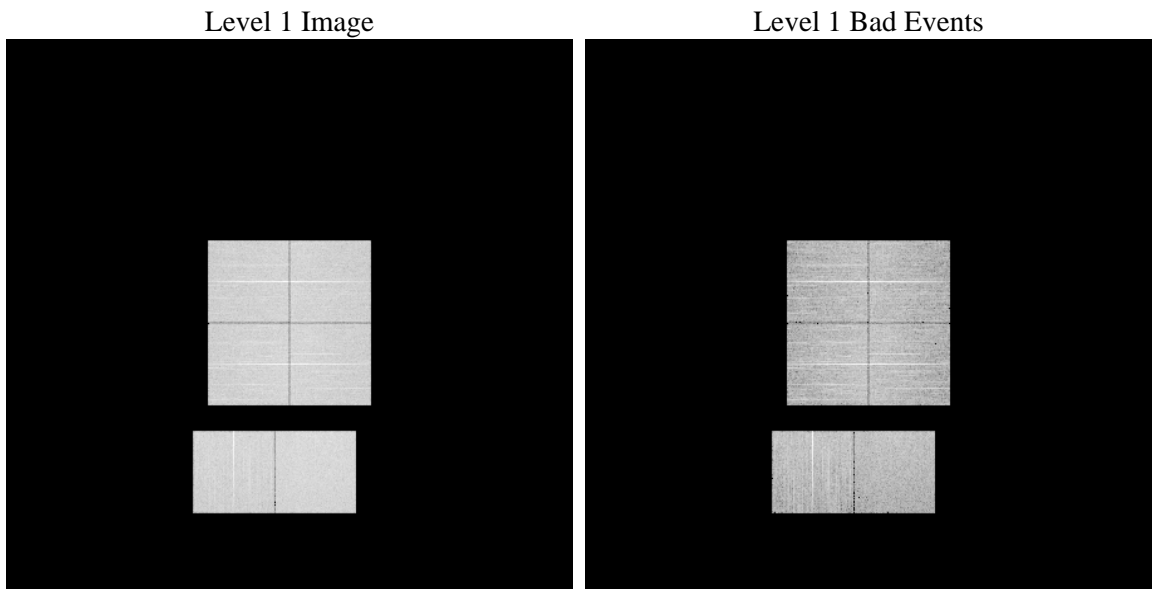
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58215 | 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 | 352.63204643169 | Nominal RA [deg] |
| dec_nom | -33.123686746793 | Nominal Dec [deg] |
| roll_nom | 7.7373166184003 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 7794.3646155 | Sum of GTIs [s] |
| livetime | 7695.6676775356 | Livetime [s] |
| ontime0 | 7794.3235754967 | Sum of GTIs [s] |
| ontime1 | 7794.2825354934 | Sum of GTIs [s] |
| ontime2 | 7794.2414954901 | Sum of GTIs [s] |
| ontime3 | 7794.4056555033 | Sum of GTIs [s] |
| ontime6 | 7794.2004554868 | Sum of GTIs [s] |
| ontime7 | 7794.3646155 | Sum of GTIs [s] |
| l2events | 653500 | Number of level 2 events |

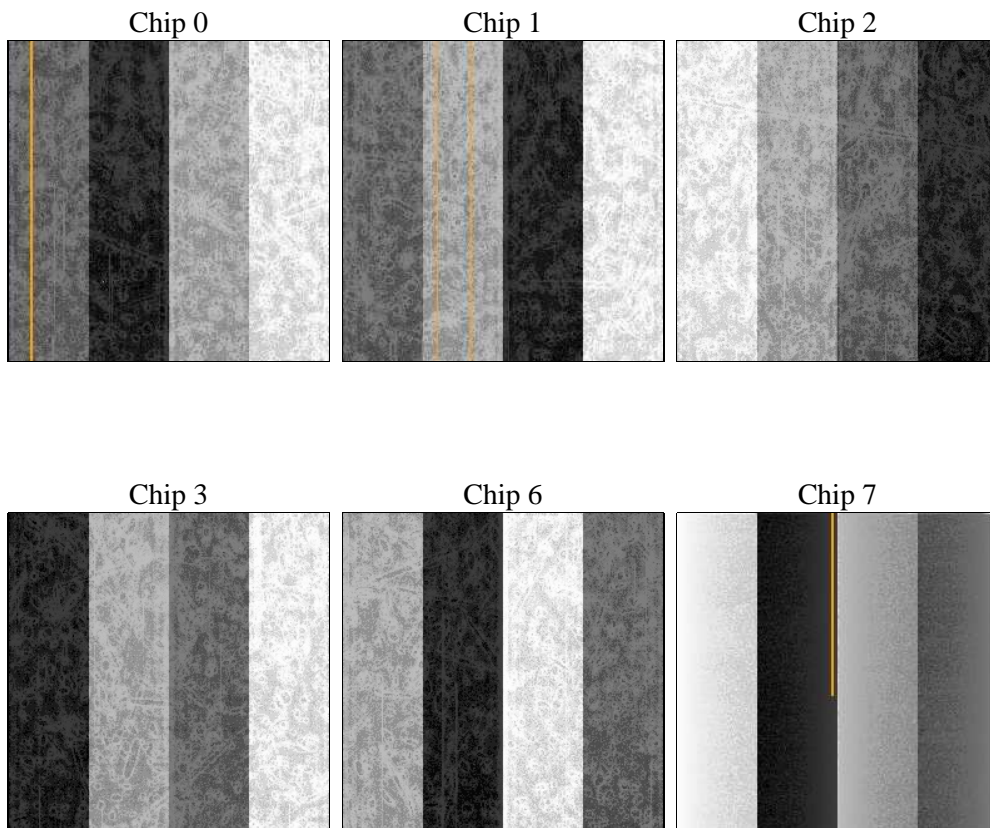
2 OBI

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 | 8.4.4 | Processing system revision | ontime | 7794.3646155 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 7794.3235754967 | Sum of GTIs [s] |
| date | 2012-05-01T05:17:32 | Date and time of file creation | ontime1 | 7794.2825354934 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 7794.2414954901 | Sum of GTIs [s] |
| | | | ontime3 | 7794.4056555033 | Sum of GTIs [s] |
| | | | ontime6 | 7794.2004554868 | Sum of GTIs [s] |
| | | | ontime7 | 7794.3646155 | Sum of GTIs [s] |
| | | | l1events | 1099031 | 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 | 174064 | 173896 | 182539 | 180618 | 185156 | 202758 | grade 0 events | 58463 | 58196 | 59702 | 60745 | 60024 | 29548 |
| rejected events | 66598 | 65061 | 73969 | 70762 | 72291 | 61508 | | 33% | 33% | 32% | 33% | 32% | 14% |
| rejected % | 38% | 37% | 40% | 39% | 39% | 30% | grade 1 events | 429 | 340 | 446 | 453 | 343 | 170 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 18788 | 19759 | 18513 | 18755 | 19902 | 30685 |
| | | | | | | | | 10% | 11% | 10% | 10% | 10% | 15% |
| | | | | | | | grade 3 events | 7176 | 7227 | 7322 | 7414 | 7261 | 13527 |
| | | | | | | | | 4% | 4% | 4% | 4% | 3% | 6% |
| | | | | | | | grade 4 events | 6971 | 7029 | 7301 | 7370 | 7250 | 13634 |
| | | | | | | | | 4% | 4% | 3% | 4% | 3% | 6% |
| | | | | | | | grade 5 events | 3660 | 3894 | 3647 | 4241 | 4117 | 10333 |
| | | | | | | | | 2% | 2% | 1% | 2% | 2% | 5% |
| | | | | | | | grade 6 events | 16068 | 16624 | 15732 | 15572 | 18428 | 53856 |
| | | | | | | | | 9% | 9% | 8% | 8% | 9% | 26% |
| | | | | | | | grade 7 events | 62509 | 60827 | 69876 | 66068 | 67831 | 51005 |
| | | | | | | | | 35% | 34% | 38% | 36% | 36% | 25% |

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 | 352.6320464316895 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -33.12368674679293 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 7.737316618400307 | | | |
| [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) | 305902524.900593 | 305902523.87559 | | | |
| Observation start date | 2007-09-11T12:55:25 | 2007-09-11T12:55:23 | | | |
| [s] Observation end time (MET) | 305919669.051419 | 305919668.02641 | | | |
| Observation end date | 2007-09-11T17:41:09 | 2007-09-11T17:41:08 | | | |
| 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) | 2012.05.03 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.7943646155 |

A.2 Comments