

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60283 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 30 2012

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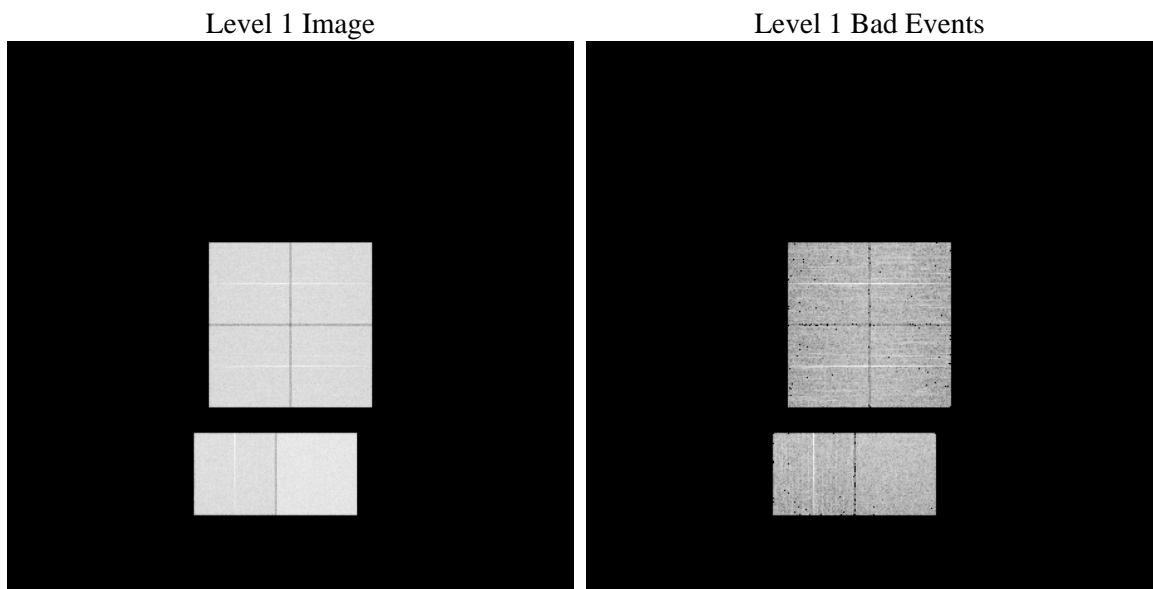
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 60283 | 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 | 186.47920308649 | Nominal RA [deg] |
| dec_nom | 33.477258754514 | Nominal Dec [deg] |
| roll_nom | 199.78705128668 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 7621.6838785708 | Sum of GTIs [s] |
| livetime | 7525.1735280733 | Livetime [s] |
| ontime0 | 5412.5036239326 | Sum of GTIs [s] |
| ontime1 | 5476.0729442537 | Sum of GTIs [s] |
| ontime2 | 5263.4182029665 | Sum of GTIs [s] |
| ontime3 | 5312.0329175293 | Sum of GTIs [s] |
| ontime6 | 5713.9149793983 | Sum of GTIs [s] |
| ontime7 | 7621.6838785708 | Sum of GTIs [s] |
| l2events | 1094367 | Number of level 2 events |

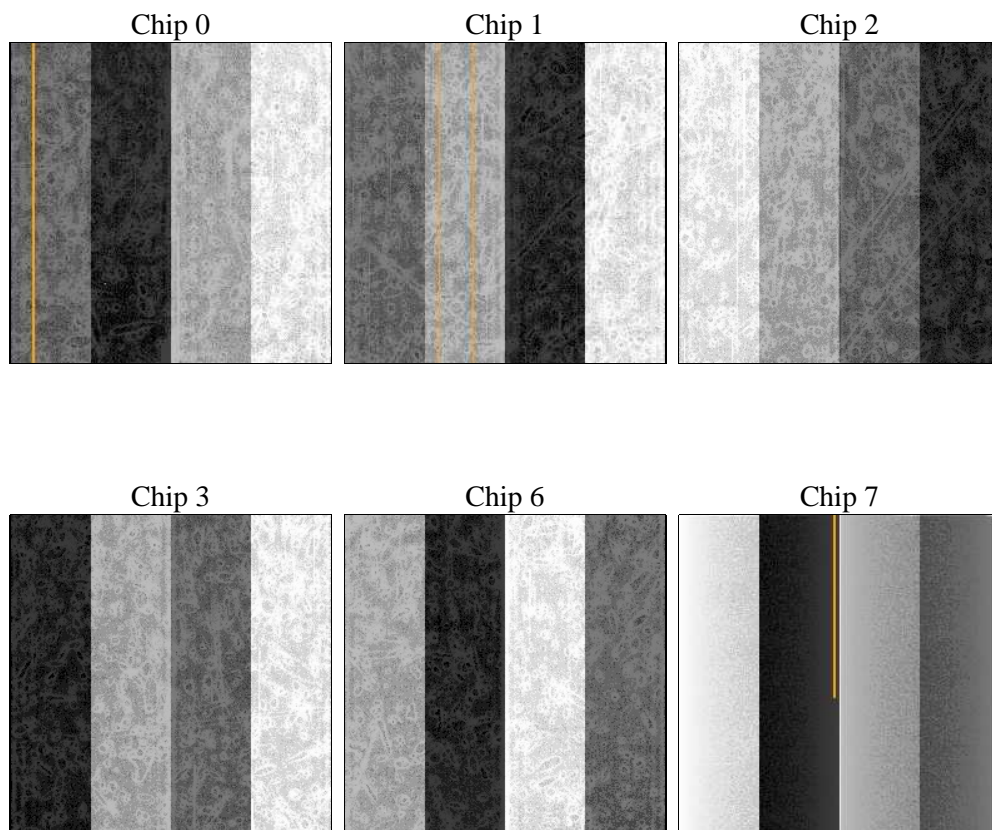
2 OBI

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 | 7621.6838785708 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 5412.5036239326 | Sum of GTIs [s] |
| date | 2012-11-29T21:54:36 | Date and time of file creation | ontime1 | 5476.0729442537 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 5263.4182029665 | Sum of GTIs [s] |
| | | | ontime3 | 5312.0329175293 | Sum of GTIs [s] |
| | | | ontime6 | 5713.9149793983 | Sum of GTIs [s] |
| | | | ontime7 | 7621.6838785708 | Sum of GTIs [s] |
| | | | l1events | 1384042 | 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 | 208648 | 214420 | 207176 | 211911 | 232764 | 309123 | grade 0 events | 94516 | 95878 | 95180 | 96740 | 103401 | 65701 |
| rejected events | 36490 | 39198 | 36850 | 39040 | 41144 | 44120 | | 45% | 44% | 45% | 45% | 44% | 21% |
| rejected % | 17% | 18% | 17% | 18% | 17% | 14% | grade 1 events | 539 | 502 | 627 | 585 | 519 | 193 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 30013 | 31118 | 28548 | 29258 | 32933 | 58476 |
| | | | | | | | | 14% | 14% | 13% | 13% | 14% | 18% |
| | | | | | | | grade 3 events | 11217 | 11026 | 10953 | 11547 | 11979 | 26468 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 4 events | 10996 | 11176 | 11217 | 11197 | 11875 | 26315 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 5 events | 2468 | 2516 | 2325 | 2448 | 2764 | 8053 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 2% |
| | | | | | | | grade 6 events | 25416 | 26024 | 24428 | 24129 | 31432 | 88043 |
| | | | | | | | | 12% | 12% | 11% | 11% | 13% | 28% |
| | | | | | | | grade 7 events | 33483 | 36180 | 33898 | 36007 | 37861 | 35874 |
| | | | | | | | | 16% | 16% | 16% | 16% | 16% | 11% |

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 | 186.4792030864852 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 33.47725875451367 | [s] Primary exposure time | 0.000000 | 3.2 |
| [deg] Pointing Roll | 0.0 | 199.7870512866823 | | | |
| [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) | 198066230.51901 | 198066229.49401 | | | |
| Observation start date | 2004-04-11T10:23:51 | 2004-04-11T10:23:49 | | | |
| [s] Observation end time (MET) | 198086355.369896 | 198086354.3449 | | | |
| Observation end date | 2004-04-11T15:59:15 | 2004-04-11T15:59:14 | | | |
| 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) | 2012.12.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.6216838785708 |

A.2 Comments