

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 55923 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jul 5 2012

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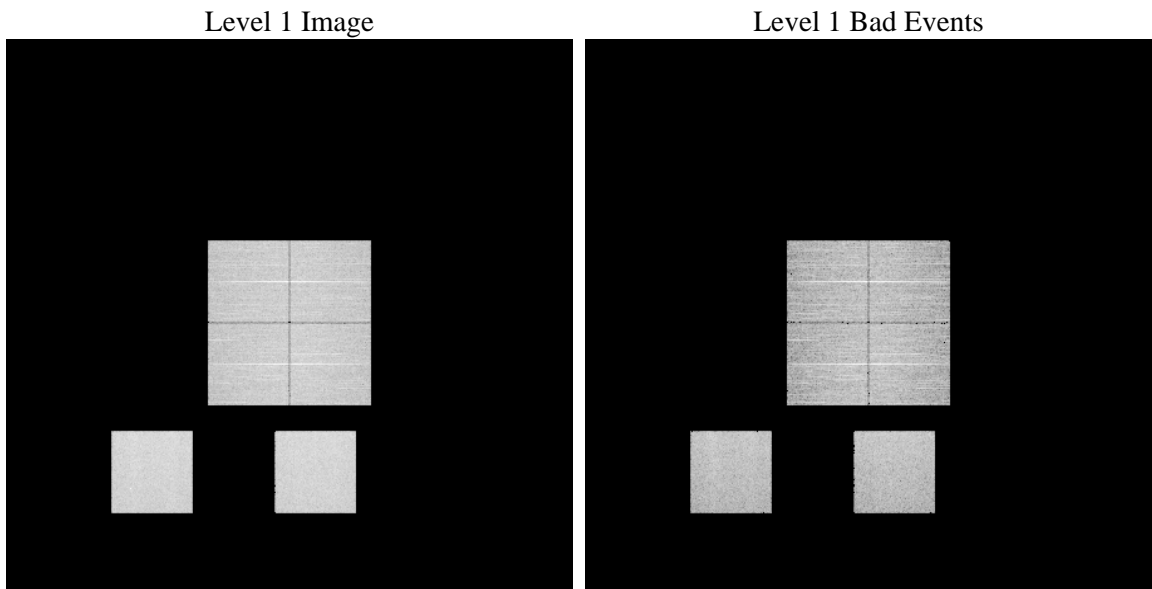
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 55923 | 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 | 42.016689229083 | Nominal RA [deg] |
| dec_nom | -10.4764963368 | Nominal Dec [deg] |
| roll_nom | 22.18688723717 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 7523.1999720335 | Sum of GTIs [s] |
| livetime | 7427.9366840604 | Livetime [s] |
| ontime0 | 7523.1999720335 | Sum of GTIs [s] |
| ontime1 | 7523.1999720335 | Sum of GTIs [s] |
| ontime2 | 7523.1999720335 | Sum of GTIs [s] |
| ontime3 | 7523.1999720335 | Sum of GTIs [s] |
| ontime5 | 7523.1999720335 | Sum of GTIs [s] |
| ontime7 | 7523.1999720335 | Sum of GTIs [s] |
| l2events | 349584 | Number of level 2 events |

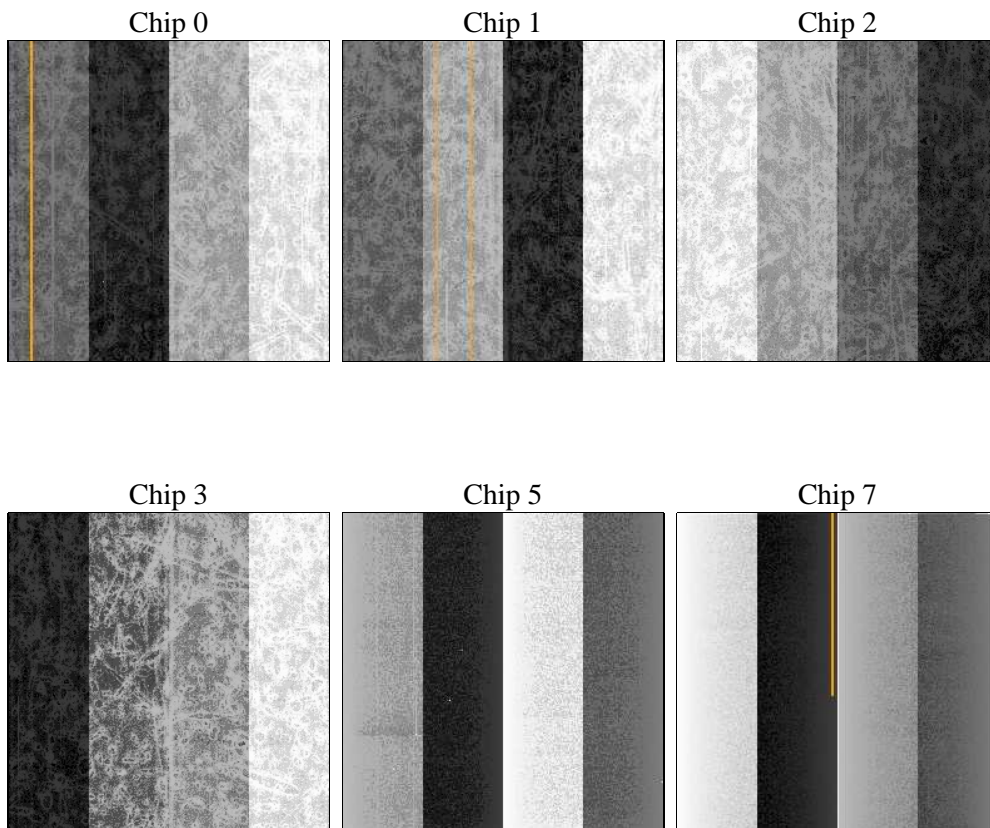
2 OBI

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 | 7523.1999720335 | Sum of GTIs [s] |
| caldsver | 4.5.0 | | ontime0 | 7523.1999720335 | Sum of GTIs [s] |
| date | 2012-07-05T22:20:23 | Date and time of file creation | ontime1 | 7523.1999720335 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 7523.1999720335 | Sum of GTIs [s] |
| | | | ontime3 | 7523.1999720335 | Sum of GTIs [s] |
| | | | ontime5 | 7523.1999720335 | Sum of GTIs [s] |
| | | | ontime7 | 7523.1999720335 | Sum of GTIs [s] |
| | | | l1events | 710247 | 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 | 105672 | 106148 | 107638 | 111055 | 141024 | 138710 | grade 0 events | 26766 | 25957 | 27675 | 28282 | 8370 | 13489 |
| rejected events | 54446 | 54706 | 56644 | 59511 | 59860 | 58577 | | 25% | 24% | 25% | 25% | 5% | 9% |
| rejected % | 51% | 51% | 52% | 53% | 42% | 42% | grade 1 events | 159 | 133 | 191 | 187 | 158 | 107 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 9565 | 10597 | 8701 | 8795 | 30238 | 17719 |
| | | | | | | | | 9% | 9% | 8% | 7% | 21% | 12% |
| | | | | | | | grade 3 events | 3400 | 3350 | 3593 | 3544 | 2884 | 6934 |
| | | | | | | | | 3% | 3% | 3% | 3% | 2% | 4% |
| | | | | | | | grade 4 events | 3417 | 3214 | 3539 | 3550 | 2816 | 6898 |
| | | | | | | | | 3% | 3% | 3% | 3% | 1% | 4% |
| | | | | | | | grade 5 events | 3483 | 3318 | 3175 | 3702 | 6921 | 8887 |
| | | | | | | | | 3% | 3% | 2% | 3% | 4% | 6% |
| | | | | | | | grade 6 events | 8108 | 8346 | 7505 | 7396 | 36889 | 35133 |
| | | | | | | | | 7% | 7% | 6% | 6% | 26% | 25% |
| | | | | | | | grade 7 events | 50774 | 51233 | 53259 | 55599 | 52748 | 49543 |
| | | | | | | | | 48% | 48% | 49% | 50% | 37% | 35% |

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 | 42.01668922908271 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -10.47649633680009 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 22.18688723716984 | [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) | 404645988.122334 | 404645987.09735 | | | |
| Observation start date | 2010-10-28T09:39:48 | 2010-10-28T09:39:47 | | | |
| [s] Observation end time (MET) | 404656090.522853 | 404656089.49787 | | | |
| Observation end date | 2010-10-28T12:28:11 | 2010-10-28T12:28:09 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.07.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.5231999720335 |

A.2 Comments