

V&V Reference Report

L2 ASCDS Version : 7.6.11.10

Observation 60327 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Feb 4 2009

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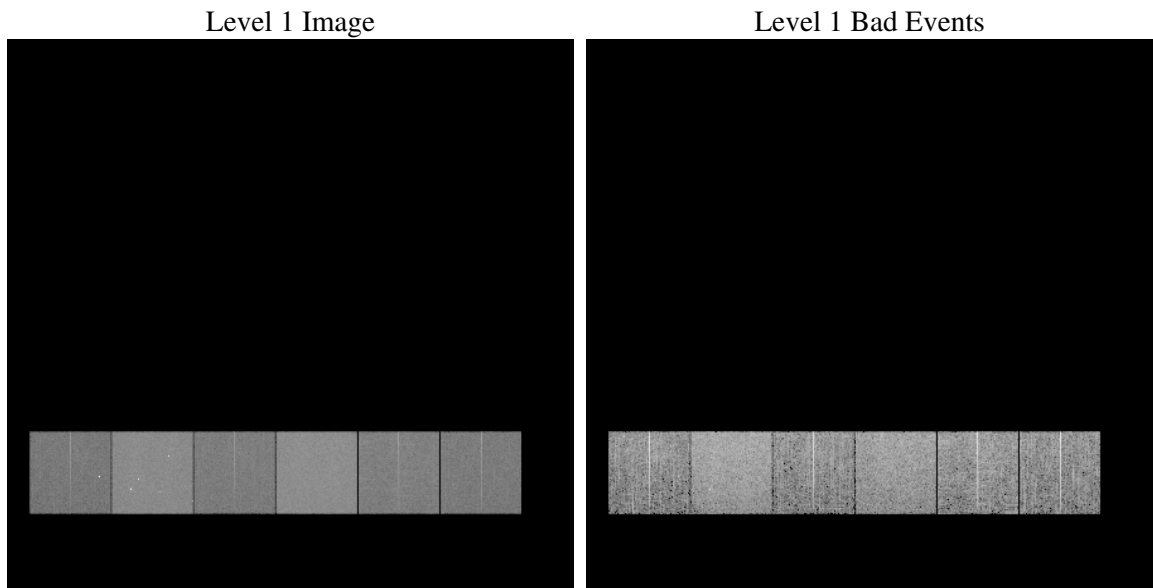
1 Front

| | |
|----------|---|
| seq_num | |
| obs_id | 60327 |
| title | ACIS-456789 diagnostics |
| observer | CHANDRA engineering request/realtime commanding |
| object | |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 0.0 |
| dec_targ | 0.0 |
| ra_nom | 30.543932363605 |
| dec_nom | -38.890768065553 |
| roll_nom | 217.13353833273 |
| revision | 3 |
| ontime | 7724.7999712229 |
| livetime | 7626.9839026711 |
| ontime4 | 4548.6530144811 |
| ontime5 | 7724.7999712229 |
| ontime6 | 4950.533454746 |
| ontime7 | 7724.7999712229 |
| ontime8 | 5181.4305397868 |
| ontime9 | 4821.4772245288 |
| l2events | 1095953 |

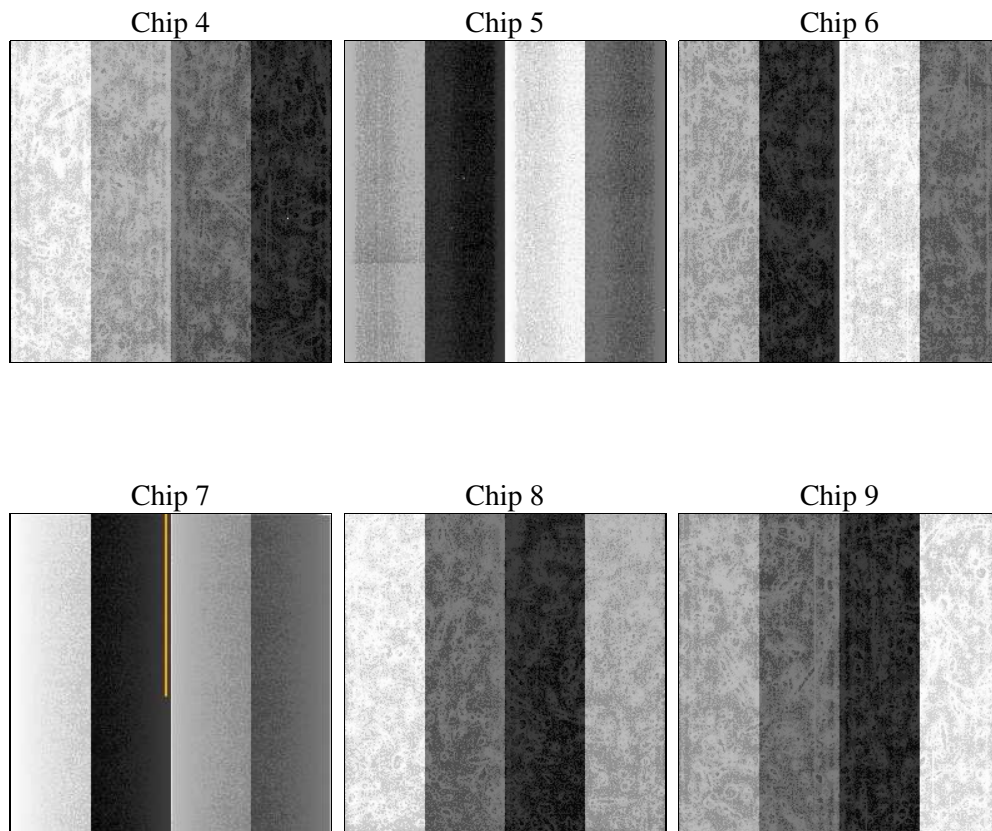
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.11.10 |
| caldsver | 3.5.1 |
| date | 2009-02-04T15:05:38 |
| revision | 3 |

| | |
|----------------|-----------------|
| sched_exp_time | 1200 |
| ontime | 7724.7999712229 |
| ontime4 | 4548.6530144811 |
| ontime5 | 7724.7999712229 |
| ontime6 | 4950.533454746 |
| ontime7 | 7724.7999712229 |
| ontime8 | 5181.4305397868 |
| ontime9 | 4821.4772245288 |
| l1events | 1415324 |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 181476 | 297956 | 203805 | 317027 | 220732 | 194328 |
| rejected events | 37055 | 54139 | 37487 | 46908 | 42202 | 37373 |
| rejected % | 20% | 18% | 18% | 14% | 19% | 19% |

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 85026 | 59853 | 91271 | 67075 | 98135 | 87469 |
| | 46% | 20% | 44% | 21% | 44% | 45% |
| grade 1 events | 585 | 344 | 488 | 211 | 508 | 480 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 23157 | 85119 | 29023 | 60150 | 31652 | 27109 |
| | 12% | 28% | 14% | 18% | 14% | 13% |
| grade 3 events | 9663 | 15376 | 10251 | 27409 | 11781 | 9994 |
| | 5% | 5% | 5% | 8% | 5% | 5% |
| grade 4 events | 9471 | 15391 | 10457 | 27473 | 11613 | 10204 |
| | 5% | 5% | 5% | 8% | 5% | 5% |
| grade 5 events | 2173 | 8435 | 2531 | 8285 | 3054 | 2426 |
| | 1% | 2% | 1% | 2% | 1% | 1% |
| grade 6 events | 18466 | 70365 | 26790 | 90632 | 26833 | 23338 |
| | 10% | 23% | 13% | 28% | 12% | 12% |
| grade 7 events | 32935 | 43073 | 32994 | 35792 | 37156 | 33308 |
| | 18% | 14% | 16% | 11% | 16% | 17% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|---------------------------------------|-----------|----------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-456789 | ACIS-456789 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | OVERRIDE | OVERRIDE |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | SECONDARY | SECONDARY | On-chip summing requested | N | N |
| Pointing RA | 30.54393236360483 | 30.54393236360483 | Subarray requested | NONE | NONE |
| Pointing Dec | -38.89076806555263 | -38.89076806555263 | Alternating exposures requested | N | N |
| Pointing Roll | 217.1335383327305 | 217.1335383327305 | Primary exposure time | 3.2 | 3.2 |
| SIM focus pos (mm) | -0.68282252473119 | -0.68282252473119 | | | |
| SIM defocus (mm) | 0.8505140384245534 | 0.8505140384245534 | | | |
| SIM translation stage pos (mm) | 250.4660330802 | 250.4660330802 | | | |
| SIM translation stage offset (mm) | -0.01005726120527584 | -0.01005726120527584 | | | |
| Observation start time | 196471840.89892 | 196471840.89892 | | | |
| Observation start date | 2004-03-24T00:05:00 | 2004-03-23T23:30:40 | | | |
| Observation end time | 196481180.08477 | 196481180.08477 | | | |
| Observation end date | 2004-03-24T00:25:00 | 2004-03-24T02:06:20 | | | |
| 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) | 2009.02.05 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.72479997 |

A.2 Comments

This obsid was reprocessed to correct minor errors in parameters used in processing. Some of these parameters cannot be determined automatically for this observation and were derived from spacecraft telemetry.