

V&V Reference Report

L2 ASCDS Version : 7.6.8

Observation 60585 - L2 Version _e1
Chandra X-Ray Center

L2 Processing Date : Jul 11 2006

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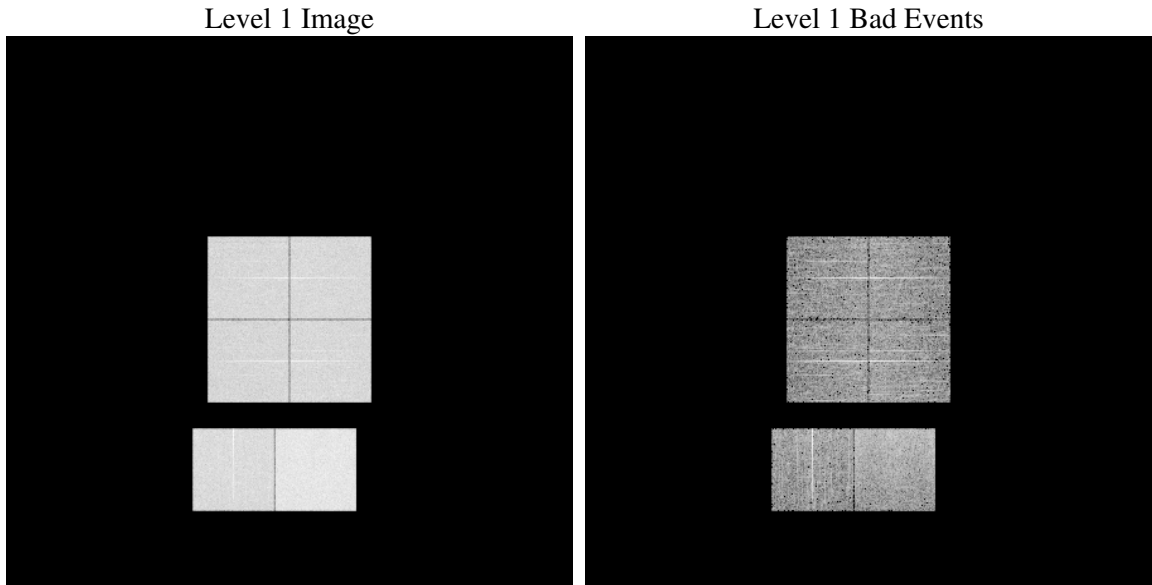
1 Front

| | |
|----------|---|
| seq_num | |
| obs_id | 60585 |
| title | ACIS-012367 diagnostics |
| observer | CHANDRA engineering request/realtime commanding |
| object | |
| dtcycle | 0 |
| cycle | P |
| ra_targ | 0.0 |
| dec_targ | 0.0 |
| ra_nom | 270.2182282442 |
| dec_nom | -26.023448743387 |
| roll_nom | 272.03921276274 |
| revision | 2 |
| ontime | 6661.6660378277 |
| livetime | 6594.0114800425 |
| ontime0 | 4794.8697162867 |
| ontime1 | 4887.7725963891 |
| ontime2 | 4560.4073161185 |
| ontime3 | 4782.6234762967 |
| ontime6 | 5020.9627564847 |
| ontime7 | 6661.6660378277 |
| l2events | 1092278 |

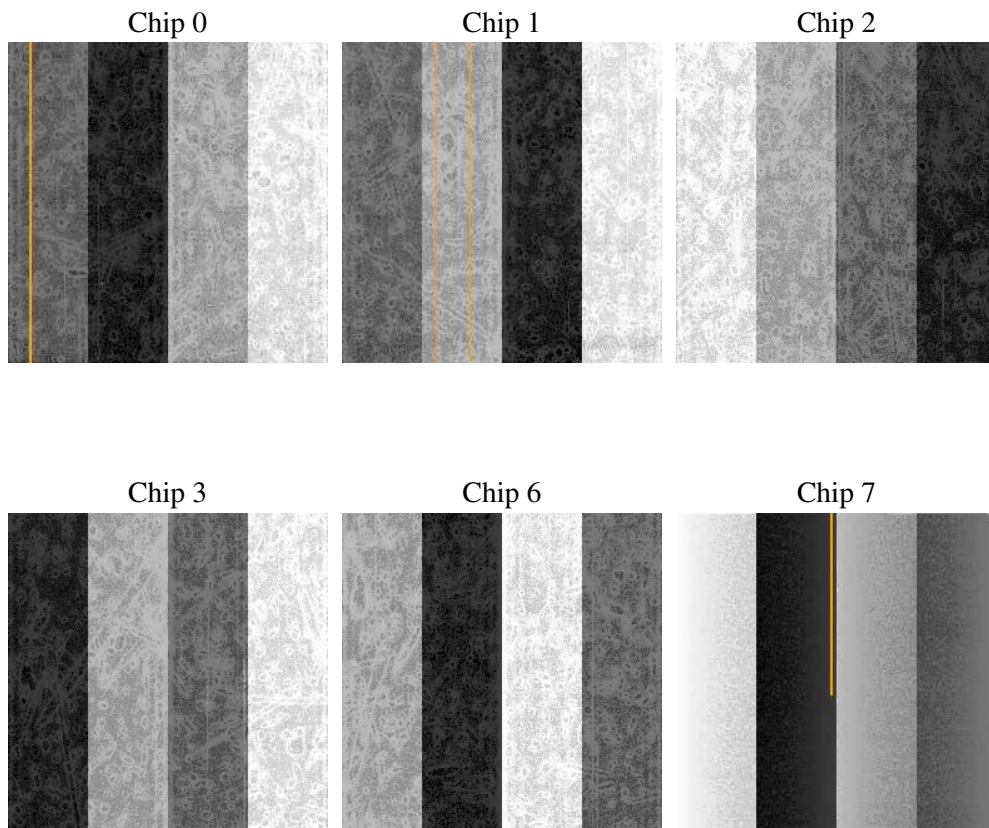
2 OBI Primary

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.8 |
| caldbver | 3.2.2 |
| date | 2006-07-11T13:56:40 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 0.0 |
| ontime | 6663.6749654412 |
| ontime0 | 4796.7144839168 |
| ontime1 | 4889.6584039927 |
| ontime2 | 4562.3341637254 |
| ontime3 | 4784.5913639069 |
| ontime6 | 5023.0127241015 |
| ontime7 | 6663.6749654412 |
| l1events | 1331939 |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 202199 | 208002 | 197361 | 207751 | 223916 | 292710 |
| rejected events | 26843 | 28143 | 28466 | 30839 | 31728 | 40750 |
| rejected % | 13% | 13% | 14% | 14% | 14% | 13% |

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|--------|-------|
| grade 0 events | 96693 | 98793 | 95031 | 99356 | 104876 | 46475 |
| | 47% | 47% | 48% | 47% | 46% | 15% |
| grade 1 events | 570 | 507 | 577 | 655 | 594 | 127 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 30578 | 31896 | 28699 | 30105 | 33175 | 75756 |
| | 15% | 15% | 14% | 14% | 14% | 25% |
| grade 3 events | 11331 | 11415 | 10884 | 11472 | 11719 | 19054 |
| | 5% | 5% | 5% | 5% | 5% | 6% |
| grade 4 events | 11334 | 11434 | 10964 | 11565 | 12143 | 18839 |
| | 5% | 5% | 5% | 5% | 5% | 6% |
| grade 5 events | 2135 | 2012 | 1938 | 2201 | 2382 | 5442 |
| | 1% | 0% | 0% | 1% | 1% | 1% |
| grade 6 events | 25420 | 26321 | 23317 | 24414 | 30434 | 91836 |
| | 12% | 12% | 11% | 11% | 13% | 31% |
| grade 7 events | 24138 | 25624 | 25951 | 27983 | 28593 | 35181 |
| | 11% | 12% | 13% | 13% | 12% | 12% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| 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 |
| Pointing RA | 0 | 270.2182282441986 | Alternating exposures requested | N | Y |
| Pointing Dec | 0 | -26.02344874338744 | Primary exposure time | 0.000000 | 4 |
| Pointing Roll | 0.0 | 272.0392127627431 | Secondary exposure time | N/A | 3.2 |
| SIM focus pos (mm) | -0.782348 | -0.6828225247311905 | Duty cycle | N/A | 1 |
| SIM defocus (mm) | 0 | 0.8505141146731063 | | | |
| SIM translation stage pos (mm) | -233.592463 | 250.466033080201 | | | |
| SIM translation stage offset (mm) | 0 | -0.01005468664627074 | | | |
| Observation start time | 177501570.576302 | 177501569.55158 | | | |
| Observation start date | 2003-08-17T09:59:31 | 2003-08-17T09:59:29 | | | |
| Observation end time | 177546453.278222 | 177546452.2535 | | | |
| Observation end date | 2003-08-17T22:27:33 | 2003-08-17T22:27:32 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect

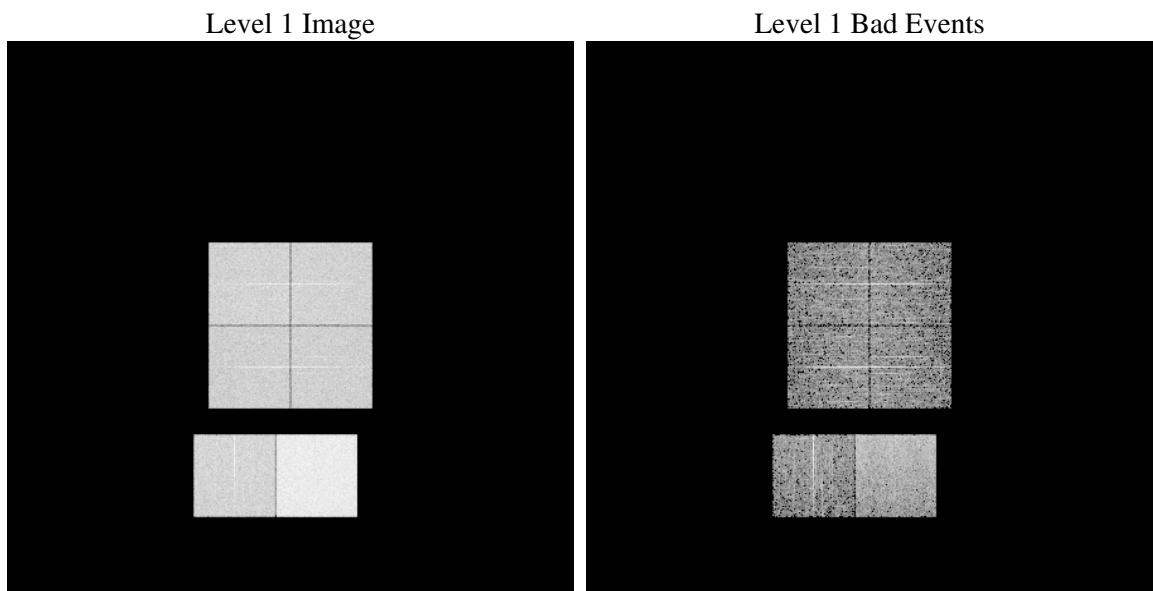
2.4 Star Slots

2.5 FID Slots

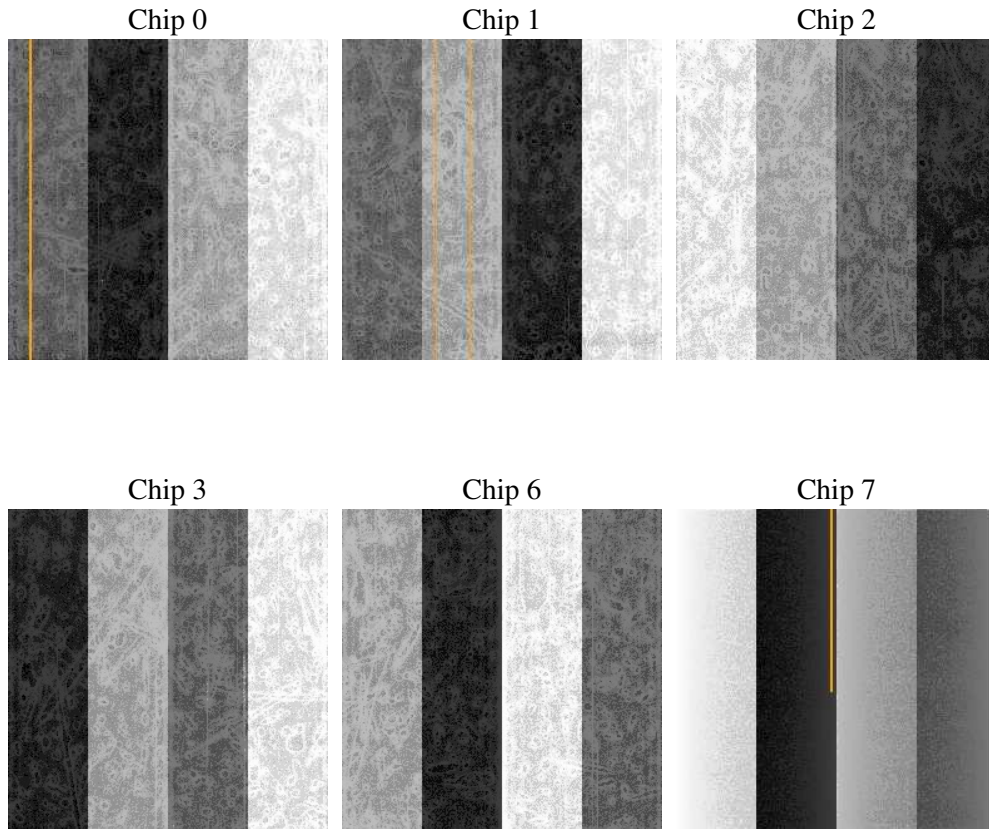
3 OBI Secondary

3.1 OBI

3.1.1 Images



3.1.2 Bias



3.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.8 |
| caldsver | 3.2.2 |
| date | 2006-07-11T13:53:01 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 0.0 |
| ontime | 5344.4749457836 |
| ontime0 | 2972.0336720943 |
| ontime1 | 2865.0793523788 |
| ontime2 | 2628.4834330082 |
| ontime3 | 2673.8579928875 |
| ontime6 | 2897.4897522926 |
| ontime7 | 5344.4749457836 |
| l1events | 850849 |

3.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 126191 | 123040 | 115508 | 117563 | 132076 | 236471 |
| rejected events | 17812 | 17537 | 17704 | 17907 | 19600 | 34407 |
| rejected % | 14% | 14% | 15% | 15% | 14% | 14% |

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 60032 | 58146 | 55123 | 55963 | 61192 | 37160 |
| | 47% | 47% | 47% | 47% | 46% | 15% |
| grade 1 events | 309 | 265 | 307 | 298 | 277 | 105 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 18848 | 18591 | 16669 | 17261 | 19668 | 60234 |
| | 14% | 15% | 14% | 14% | 14% | 25% |
| grade 3 events | 7047 | 6805 | 6239 | 6559 | 7082 | 15076 |
| | 5% | 5% | 5% | 5% | 5% | 6% |
| grade 4 events | 6967 | 6652 | 6376 | 6549 | 6916 | 15068 |
| | 5% | 5% | 5% | 5% | 5% | 6% |
| grade 5 events | 1220 | 1219 | 1176 | 1208 | 1358 | 4535 |
| | 0% | 0% | 1% | 1% | 1% | 1% |
| grade 6 events | 15596 | 15445 | 13517 | 13437 | 17738 | 74650 |
| | 12% | 12% | 11% | 11% | 13% | 31% |
| grade 7 events | 16172 | 15917 | 16101 | 16288 | 17845 | 29643 |
| | 12% | 12% | 13% | 13% | 13% | 12% |

A Summary

A.1 Status

| | |
|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2006.07.11 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 12.0028999 |

A.2 Comments

Observation was done in interleaved mode.