

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 61496 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Dec 22 2006

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 | Aspect | 6 |
| 2.4 | Star Slots | 8 |
| 2.5 | FID Slots | 8 |
| A | Summary | 9 |
| A.1 | Status | 9 |
| A.2 | Comments | 9 |

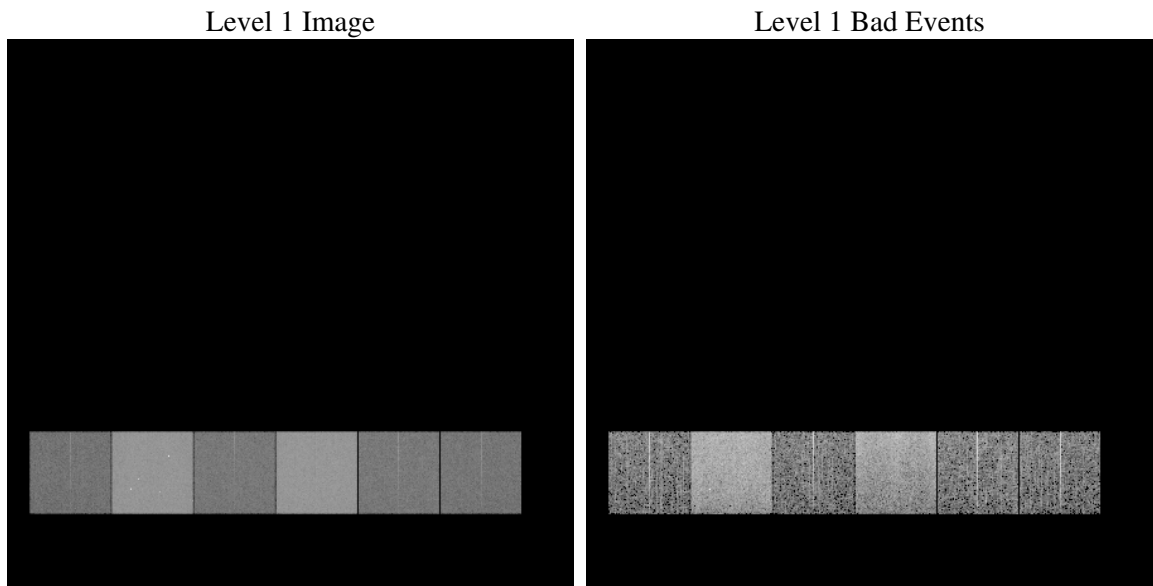
1 Front

| | |
|----------|-------------------------------------------------|
| seq_num | |
| obs_id | 61496 |
| 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 | 45.569765660599 |
| dec_nom | 54.465315915714 |
| roll_nom | 110.08525447113 |
| revision | 2 |
| ontime | 5629.7037191242 |
| livetime | 5558.417020832 |
| ontime4 | 2142.5806995332 |
| ontime5 | 5995.9317784011 |
| ontime6 | 2353.2071392983 |
| ontime7 | 5629.7037191242 |
| ontime8 | 2353.0590684861 |
| ontime9 | 2255.852979064 |
| l2events | 1199536 |

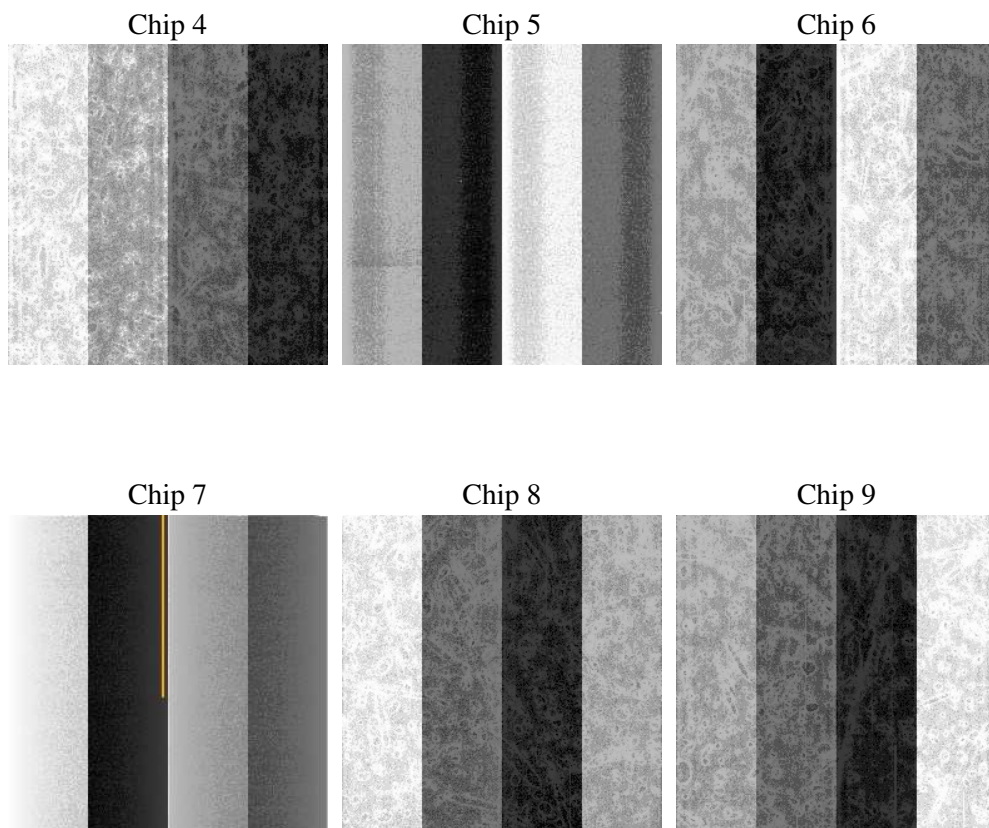
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.9 |
| caldsver | 3.2.4 |
| date | 2006-12-22T04:03:31 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 0.0 |
| ontime | 5632.8784813583 |
| ontime4 | 2145.5661615431 |
| ontime5 | 5999.1065406352 |
| ontime6 | 2356.2336413115 |
| ontime7 | 5632.8784813583 |
| ontime8 | 2356.2338307202 |
| ontime9 | 2259.0026010722 |
| l1events | 1423197 |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 147186 | 380900 | 170973 | 390488 | 174585 | 159065 |
| rejected events | 19304 | 52043 | 18737 | 40396 | 21253 | 18469 |
| rejected % | 13% | 13% | 10% | 10% | 12% | 11% |

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|----------------|-------|--------|-------|--------|-------|-------|
| grade 0 events | 72279 | 45995 | 83510 | 67689 | 84249 | 76543 |
| | 49% | 12% | 48% | 17% | 48% | 48% |
| grade 1 events | 420 | 154 | 445 | 170 | 424 | 447 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 22604 | 153934 | 26299 | 103448 | 26829 | 25037 |
| | 15% | 40% | 15% | 26% | 15% | 15% |
| grade 3 events | 7739 | 12285 | 9226 | 27064 | 9723 | 8710 |
| | 5% | 3% | 5% | 6% | 5% | 5% |
| grade 4 events | 7857 | 12186 | 9313 | 26703 | 9503 | 8773 |
| | 5% | 3% | 5% | 6% | 5% | 5% |
| grade 5 events | 1186 | 6170 | 1377 | 5771 | 1509 | 1385 |
| | 0% | 1% | 0% | 1% | 0% | 0% |
| grade 6 events | 17625 | 104625 | 24099 | 125388 | 23243 | 21733 |
| | 11% | 27% | 14% | 32% | 13% | 13% |
| grade 7 events | 17476 | 45551 | 16704 | 34255 | 19105 | 16437 |
| | 11% | 11% | 9% | 8% | 10% | 10% |

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 | NONE | UPDATED |
| Data mode | FAINT | FAINT | On-chip summing requested | N | N |
| Observation mode | SECONDARY | SECONDARY | Subarray requested | NONE | NONE |
| Pointing RA | 0 | 45.56976566059943 | Alternating exposures requested | N | N |
| Pointing Dec | 0 | 54.46531591571408 | Primary exposure time | 0.000000 | 3.2 |
| Pointing Roll | 0.0 | 110.0852544711292 | | | |
| SIM focus pos (mm) | -0.684267 | -0.6828225247311905 | | | |
| SIM defocus (mm) | 0 | 0.8505141146731063 | | | |
| SIM translation stage pos (mm) | -190.132523 | 250.466033080201 | | | |
| SIM translation stage offset (mm) | 0 | -0.01005468664627074 | | | |
| Observation start time | 114904967.392 | 114904966.62366 | | | |
| Observation start date | 2001-08-22T22:02:47 | 2001-08-22T22:02:46 | | | |
| Observation end time | 114941691.094 | 114941690.32511 | | | |
| Observation end date | 2001-08-23T08:14:51 | 2001-08-23T08:14:50 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Aspect

2.4 Star Slots

2.5 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2006.12.22 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.62970371 |

A.2 Comments