

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 60732 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Aug 11 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 |

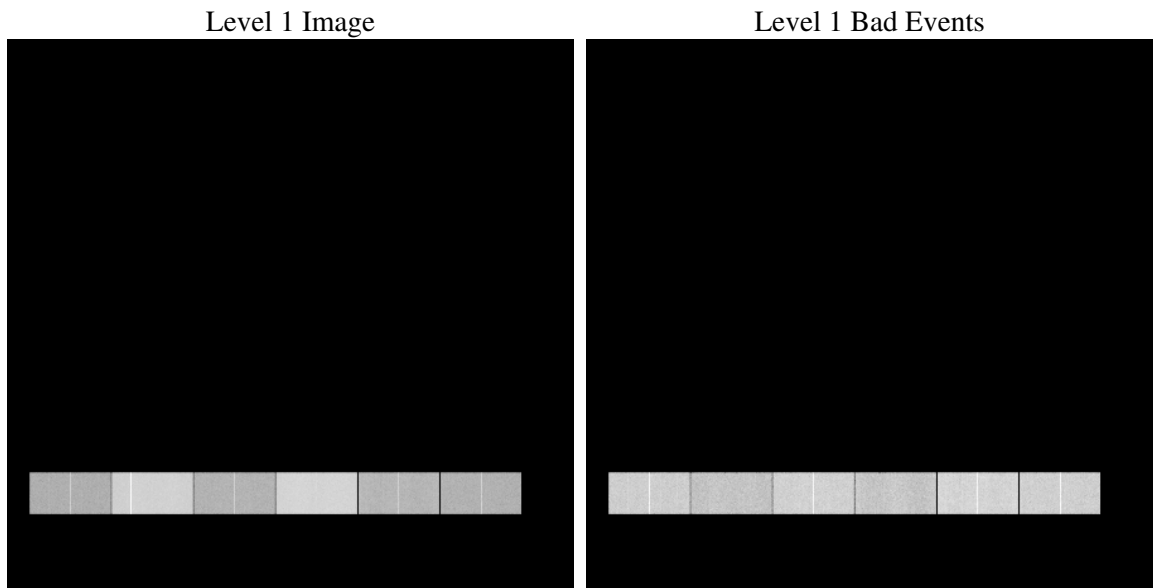
1 Front

| | |
|----------|---|
| seq_num | |
| obs_id | 60732 |
| title | ACIS-456789 diagnostics |
| observer | CHANDRA engineering request/realtime commanding |
| object | |
| ra_targ | 0.0 |
| dec_targ | 0.0 |
| ra_nom | 110.00872677948 |
| dec_nom | 12.972694422668 |
| roll_nom | 254.40470799517 |
| revision | 2 |
| ontime | 12458.75 |
| livetime | 12410.083007812 |
| ontime4 | 4671.5480306447 |
| ontime5 | 12458.75 |
| ontime6 | 5083.9719994068 |
| ontime7 | 12458.75 |
| ontime8 | 5250.8455694318 |
| ontime9 | 4965.7785528898 |
| l2events | 1151365 |

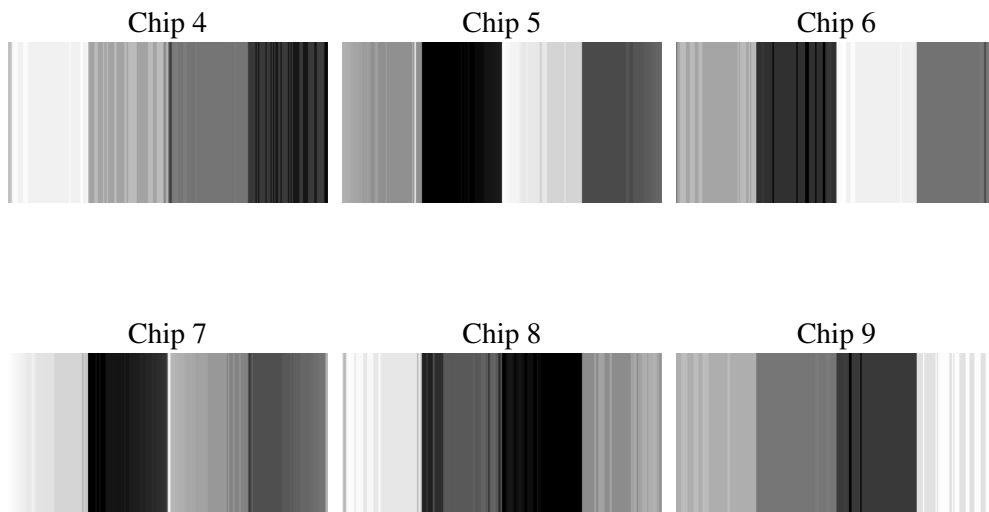
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 1 |
| ascdsver | 7.6.8.1 |
| caldbver | 3.2.3 |
| date | 2006-08-11T16:01:20 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 0.0 |
| ontime | 12461.407368004 |
| ontime4 | 4672.3477401733 |
| ontime5 | 12461.407368004 |
| ontime6 | 5085.297844559 |
| ontime7 | 12461.407368004 |
| ontime8 | 5251.6452788711 |
| ontime9 | 4967.1044279635 |
| l1events | 2170447 |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 | | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 225846 | 570829 | 251590 | 604706 | 276078 | 241398 | grade 0 events | 17709 | 38678 | 15640 | 60787 | 25281 | 17572 |
| rejected events | 159940 | 119156 | 172566 | 127601 | 188955 | 166115 | | 7% | 6% | 6% | 10% | 9% | 7% |
| rejected % | 70% | 20% | 68% | 21% | 68% | 68% | grade 1 events | 114 | 102 | 74 | 205 | 151 | 117 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 104753 | 235991 | 122736 | 176260 | 123177 | 113915 |
| | | | | | | | | 46% | 41% | 48% | 29% | 44% | 47% |
| | | | | | | | grade 3 events | 2594 | 6989 | 2383 | 25422 | 3894 | 2473 |
| | | | | | | | | 1% | 1% | 0% | 4% | 1% | 1% |
| | | | | | | | grade 4 events | 2567 | 6618 | 2291 | 24760 | 3838 | 2481 |
| | | | | | | | | 1% | 1% | 0% | 4% | 1% | 1% |
| | | | | | | | grade 5 events | 2564 | 9432 | 2488 | 11577 | 2905 | 2518 |
| | | | | | | | | 1% | 1% | 0% | 1% | 1% | 1% |
| | | | | | | | grade 6 events | 31997 | 163626 | 41866 | 190118 | 41763 | 38243 |
| | | | | | | | | 14% | 28% | 16% | 31% | 15% | 15% |
| | | | | | | | grade 7 events | 63548 | 109393 | 64112 | 115577 | 75069 | 64079 |
| | | | | | | | | 28% | 19% | 25% | 19% | 27% | 26% |

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 | CC33_FAINT | CC33_FAINT | On-chip summing requested | N | N |
| Observation mode | SECONDARY | SECONDARY | Subarray requested | NONE | NONE |
| Pointing RA | 0 | 110.0087267794805 | Alternating exposures requested | N | N |
| Pointing Dec | 0 | 12.97269442266787 | Primary exposure time | 0.000000 | 0 |
| Pointing Roll | 0.0 | 254.4047079951715 | | | |
| SIM focus pos (mm) | -0.684267 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.7524282956875696 | | | |
| SIM translation stage pos (mm) | -190.132523 | 250.466033080201 | | | |
| SIM translation stage offset (mm) | 0 | -0.01005468664627074 | | | |
| Observation start time | 169953576.855047 | 169953575.83033 | | | |
| Observation start date | 2003-05-22T01:19:37 | 2003-05-22T01:19:35 | | | |
| Observation end time | 170003457.457163 | 170003456.43244 | | | |
| Observation end date | 2003-05-22T15:10:57 | 2003-05-22T15:10:56 | | | |
| Read mode | CONTINUOUS | CONTINUOUS | | | |

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) | 2006.08.11 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 12.45875 |

A.2 Comments