

V&V Reference Report

L2 ASCDS Version : 7.6.9

Observation 61157 - L2 Version 001
Chandra X-Ray Center

L2 Processing Date : Sep 19 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 |

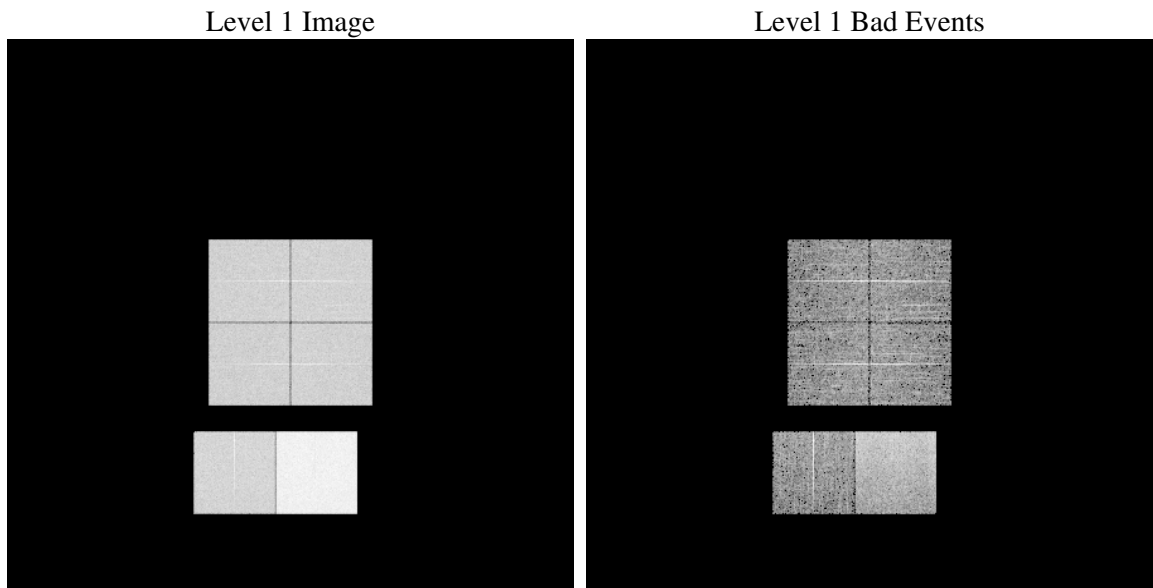
1 Front

| | |
|----------|---|
| seq_num | |
| obs_id | 61157 |
| 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 | 146.99861951768 |
| dec_nom | -23.02857849771 |
| roll_nom | 234.6550122166 |
| revision | 2 |
| ontime | 7795.0395053625 |
| livetime | 7696.3340215363 |
| ontime0 | 3497.5524043739 |
| ontime1 | 3549.4496559799 |
| ontime2 | 3303.1737690866 |
| ontime3 | 3384.0337256789 |
| ontime6 | 3669.4451759458 |
| ontime7 | 7795.0395053625 |
| l2events | 1203870 |

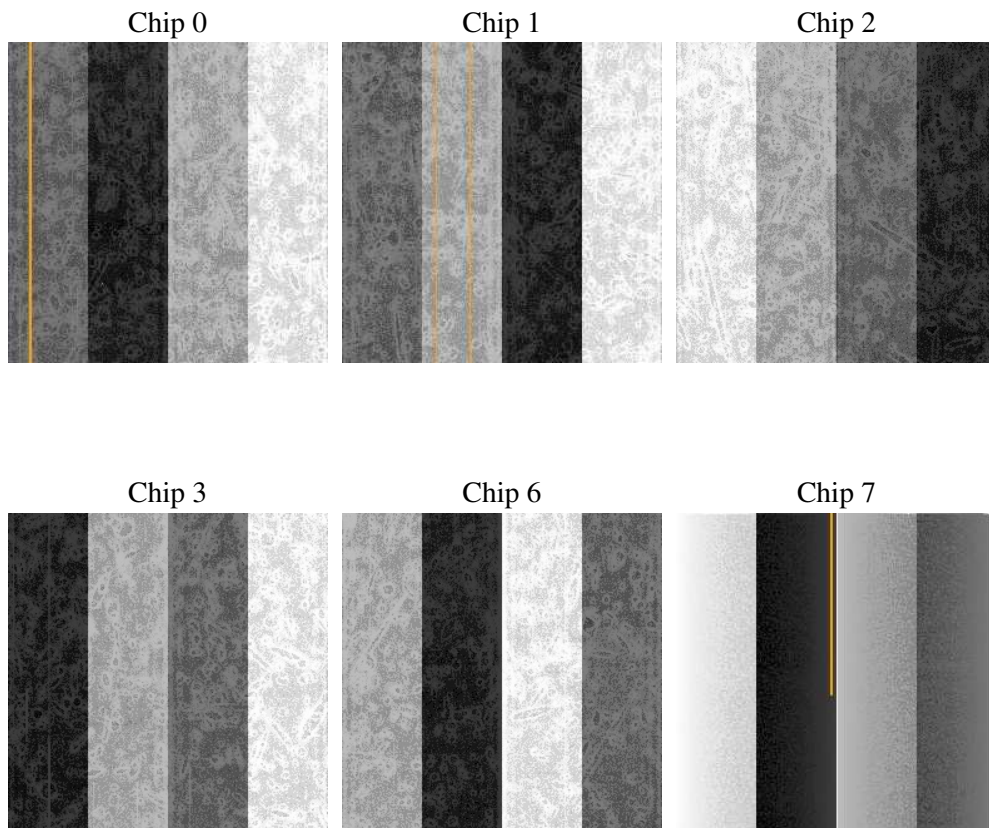
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | |
|----------|---------------------|
| obi_num | 0 |
| ascdsver | 7.6.9 |
| caldbver | 3.2.3 |
| date | 2006-09-19T21:55:21 |
| revision | 2 |

| | |
|----------------|-----------------|
| sched_exp_time | 0.0 |
| ontime | 7797.8433191478 |
| ontime0 | 3500.3151781559 |
| ontime1 | 3552.1713897586 |
| ontime2 | 3305.854462862 |
| ontime3 | 3386.8785794675 |
| ontime6 | 3672.088524133 |
| ontime7 | 7797.8433191478 |
| l1events | 1438570 |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|
| level 1 events | 196314 | 201185 | 189305 | 193449 | 215405 | 442912 |
| rejected events | 23922 | 26075 | 25250 | 25224 | 25960 | 55477 |
| rejected % | 12% | 12% | 13% | 13% | 12% | 12% |

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|--------|--------|
| grade 0 events | 95321 | 96711 | 91061 | 94436 | 103418 | 71049 |
| | 48% | 48% | 48% | 48% | 48% | 16% |
| grade 1 events | 484 | 482 | 484 | 468 | 508 | 171 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 30459 | 31024 | 28943 | 29179 | 32827 | 116055 |
| | 15% | 15% | 15% | 15% | 15% | 26% |
| grade 3 events | 11088 | 11256 | 10398 | 10718 | 11782 | 29193 |
| | 5% | 5% | 5% | 5% | 5% | 6% |
| grade 4 events | 10773 | 11039 | 10289 | 10681 | 11756 | 28671 |
| | 5% | 5% | 5% | 5% | 5% | 6% |
| grade 5 events | 1753 | 1785 | 1548 | 1684 | 1974 | 7398 |
| | 0% | 0% | 0% | 0% | 0% | 1% |
| grade 6 events | 24910 | 25241 | 23532 | 23385 | 29831 | 142595 |
| | 12% | 12% | 12% | 12% | 13% | 32% |
| grade 7 events | 21526 | 23647 | 23050 | 22898 | 23309 | 47780 |
| | 10% | 11% | 12% | 11% | 10% | 10% |

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 | 146.9986195176796 | Alternating exposures requested | N | N |
| Pointing Dec | 0 | -23.02857849770972 | Primary exposure time | 3.2 | 3.2 |
| Pointing Roll | 0.0 | 234.6550122165974 | | | |
| SIM focus pos (mm) | -0.782348 | -0.7809083437167272 | | | |
| SIM defocus (mm) | 0 | 0.7524282956875696 | | | |
| SIM translation stage pos (mm) | -233.592463 | 250.466033080201 | | | |
| SIM translation stage offset (mm) | 0 | -0.01005468664627074 | | | |
| Observation start time | 140951050.996073 | 140951049.97136 | | | |
| Observation start date | 2002-06-20T09:04:11 | 2002-06-20T09:04:09 | | | |
| Observation end time | 140985679.59749 | 140985678.57278 | | | |
| Observation end date | 2002-06-20T18:41:20 | 2002-06-20T18:41:18 | | | |
| 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) | 2006.09.20 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.7950395 |

A.2 Comments