

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 61959 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 1 2012

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 | Star Slots | 6 |
| 2.4 | FID Slots | 6 |
| A | Summary | 7 |
| A.1 | Status | 7 |
| A.2 | Comments | 7 |

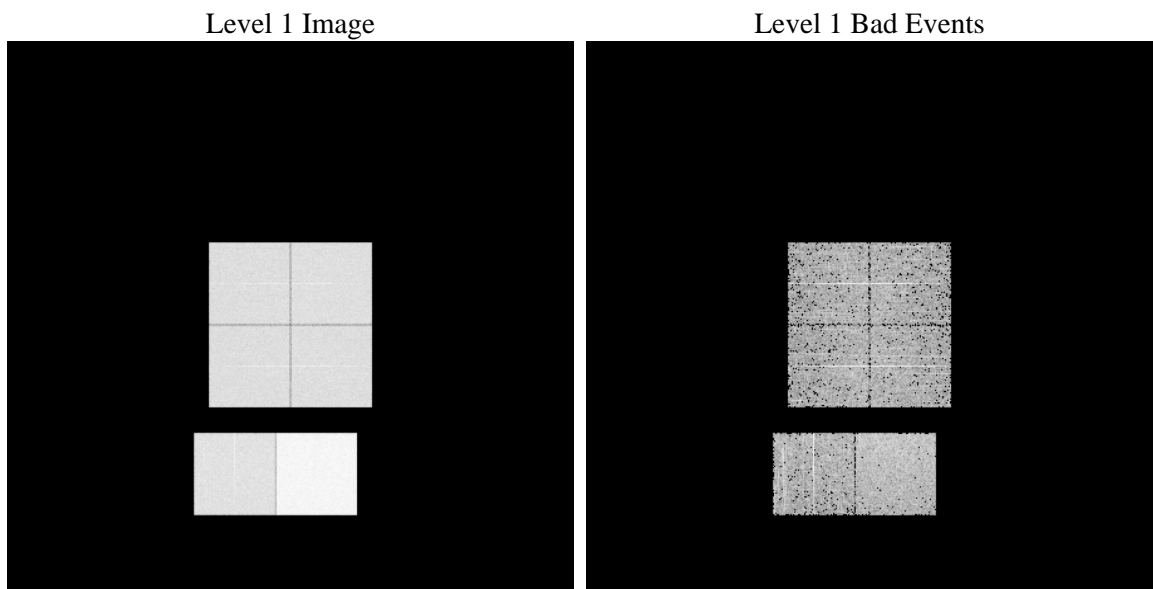
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 61959 | Observation id |
| title | ACIS-012367 diagnostics | Proposal title |
| observer | CHANDRA engineering request/realtime commanding | Principal investig |
| object | | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 0.0 | Observer's specified target RA [deg] |
| dec_targ | 0.0 | Observer's specified target Dec [deg] |
| ra_nom | 6.4688665225804 | Nominal RA [deg] |
| dec_nom | 38.274679658881 | Nominal Dec [deg] |
| roll_nom | 138.2540105417 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 5162.9400500059 | Sum of GTIs [s] |
| livetime | 5097.5637943435 | Livetime [s] |
| ontime0 | 2226.5927394032 | Sum of GTIs [s] |
| ontime1 | 2314.1007195115 | Sum of GTIs [s] |
| ontime2 | 2190.9410701394 | Sum of GTIs [s] |
| ontime3 | 2207.1464496404 | Sum of GTIs [s] |
| ontime6 | 2419.7280981392 | Sum of GTIs [s] |
| ontime7 | 5162.9400500059 | Sum of GTIs [s] |
| l2events | 1262010 | Number of level 2 events |

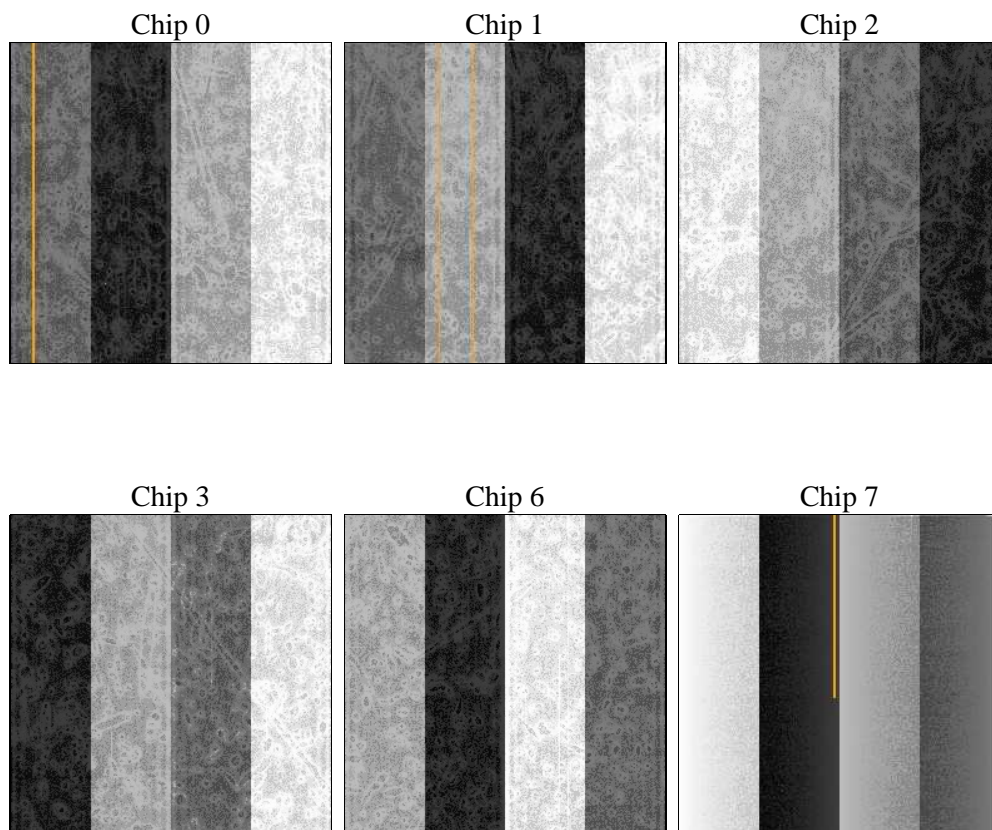
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 5162.9400500059 | Sum of GTIs [s] |
| caldbver | 4.5.1.1 | | ontime0 | 2226.5927394032 | Sum of GTIs [s] |
| date | 2012-09-01T02:45:24 | Date and time of file creation | ontime1 | 2314.1007195115 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 2190.9410701394 | Sum of GTIs [s] |
| | | | ontime3 | 2207.1464496404 | Sum of GTIs [s] |
| | | | ontime6 | 2419.7280981392 | Sum of GTIs [s] |
| | | | ontime7 | 5162.9400500059 | Sum of GTIs [s] |
| | | | l1events | 1431240 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|-------|--------|-------|-------|--------|--------|
| level 1 events | 190553 | 198533 | 190647 | 192444 | 218459 | 440604 | grade 0 events | 95823 | 100185 | 96614 | 97532 | 108849 | 107925 |
| rejected events | 17554 | 17245 | 17504 | 18608 | 19963 | 25438 | | 50% | 50% | 50% | 50% | 49% | 24% |
| rejected % | 9% | 8% | 9% | 9% | 9% | 5% | grade 1 events | 517 | 521 | 478 | 519 | 530 | 300 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 30137 | 31764 | 30333 | 30488 | 34138 | 92957 |
| | | | | | | | | 15% | 15% | 15% | 15% | 15% | 21% |
| | | | | | | | grade 3 events | 11006 | 11495 | 10824 | 10967 | 12179 | 42852 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 4 events | 10957 | 11503 | 10842 | 10993 | 12308 | 42488 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 5 events | 1366 | 1387 | 1315 | 1322 | 1588 | 5837 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 1% |
| | | | | | | | grade 6 events | 25076 | 26341 | 24530 | 23856 | 31022 | 128944 |
| | | | | | | | | 13% | 13% | 12% | 12% | 14% | 29% |
| | | | | | | | grade 7 events | 15671 | 15337 | 15711 | 16767 | 17845 | 19301 |
| | | | | | | | | 8% | 7% | 8% | 8% | 8% | 4% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 6.46886652258042 |
| [deg] Pointing Dec | 0 | 38.27467965888129 |
| [deg] Pointing Roll | 0.0 | 138.2540105417017 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 |
| [mm] SIM defocus | 0 | 0.7524282956875696 |
| [mm] SIM translation stage pos | -233.592463 | 250.4635187648994 |
| [mm] SIM translation stage offset | 0 | -0.007540371344731511 |
| [s] Observation start time (MET) | 83147803.21982899 | 83147802.451363 |
| Observation start date | 2000-08-20T08:36:43 | 2000-08-20T08:36:42 |
| [s] Observation end time (MET) | 83191072.57145 | 83191071.802984 |
| Observation end date | 2000-08-20T20:37:53 | 2000-08-20T20:37:51 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| On-chip summing requested | N | N |
| Subarray requested | NONE | NONE |
| Alternating exposures requested | N | N |
| [s] Primary exposure time | 3.2 | 3.2 |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.09.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.1629400500059 |

A.2 Comments