

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 52001 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Mar 24 2015

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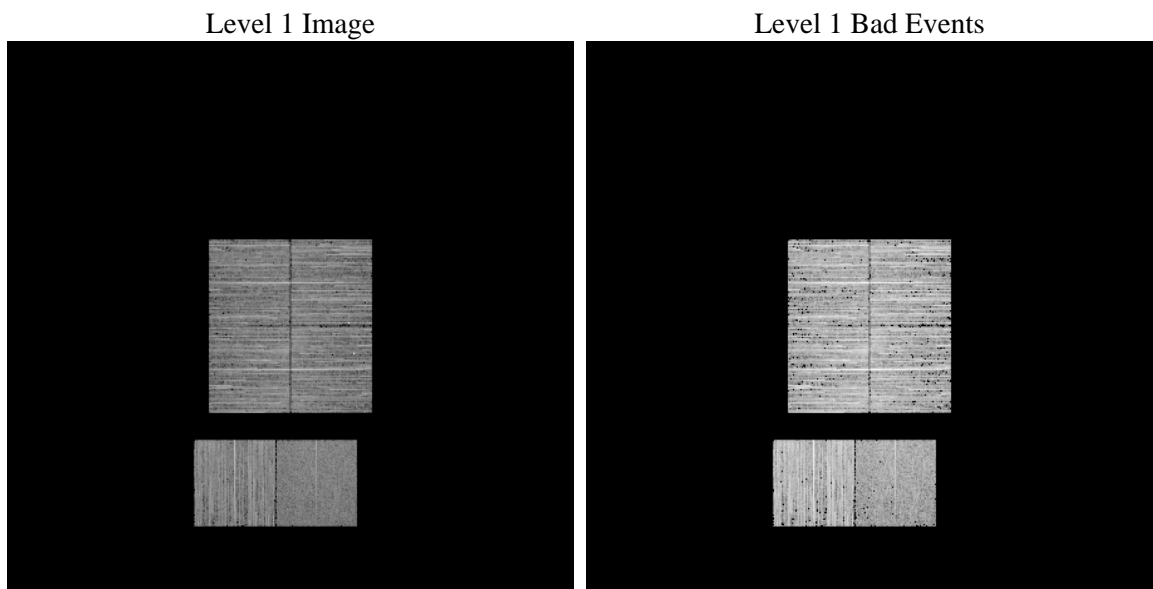
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 52001 | 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 | 173.15398735521 | Nominal RA [deg] |
| dec_nom | -22.797237521439 | Nominal Dec [deg] |
| roll_nom | 335.32679320787 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 3976.4294476509 | Sum of GTIs [s] |
| livetime | 3926.0775036664 | Livetime [s] |
| ontime0 | 3976.388407588 | Sum of GTIs [s] |
| ontime1 | 3976.3473676443 | Sum of GTIs [s] |
| ontime2 | 3976.3063275814 | Sum of GTIs [s] |
| ontime3 | 3976.4704875946 | Sum of GTIs [s] |
| ontime6 | 3973.0241868496 | Sum of GTIs [s] |
| ontime7 | 3976.4294476509 | Sum of GTIs [s] |
| l2events | 71005 | Number of level 2 events |

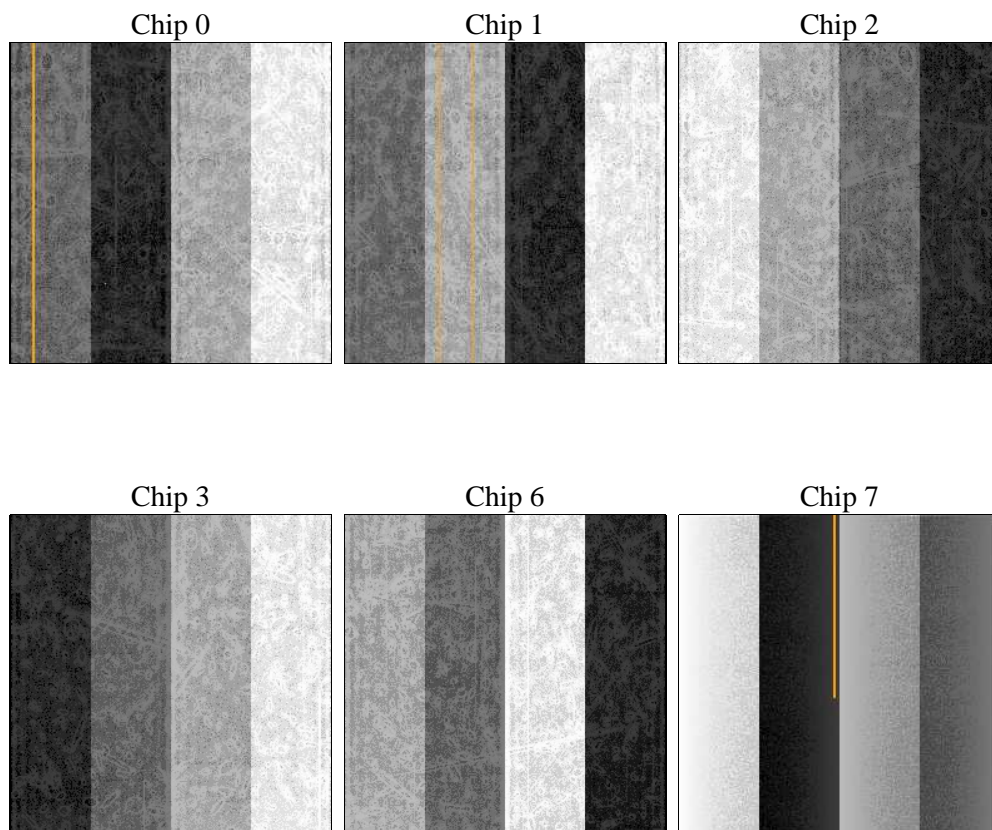
2 OBI

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 | 10.3.3 | Processing system revision | ontime | 3976.4294476509 | Sum of GTIs [s] |
| caldbver | 4.6.7 | | ontime0 | 3976.388407588 | Sum of GTIs [s] |
| date | 2015-03-24T07:43:13 | Date and time of file creation | ontime1 | 3976.3473676443 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 3976.3063275814 | Sum of GTIs [s] |
| | | | ontime3 | 3976.4704875946 | Sum of GTIs [s] |
| | | | ontime6 | 3973.0241868496 | Sum of GTIs [s] |
| | | | ontime7 | 3976.4294476509 | Sum of GTIs [s] |
| | | | l1events | 379849 | 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 | 58799 | 66194 | 68322 | 64533 | 69453 | 52548 | grade 0 events | 5317 | 6397 | 5497 | 6806 | 5225 | 2851 |
| rejected events | 48142 | 54153 | 57873 | 52604 | 58570 | 30780 | | 9% | 9% | 8% | 10% | 7% | 5% |
| rejected % | 81% | 81% | 84% | 81% | 84% | 58% | grade 1 events | 34 | 35 | 33 | 36 | 22 | 30 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 2328 | 2581 | 2191 | 2214 | 2482 | 5556 |
| | | | | | | | | 3% | 3% | 3% | 3% | 3% | 10% |
| | | | | | | | grade 3 events | 793 | 746 | 730 | 752 | 740 | 1722 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 736 | 755 | 764 | 778 | 759 | 1677 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 1225 | 1226 | 1183 | 1463 | 1337 | 3173 |
| | | | | | | | | 2% | 1% | 1% | 2% | 1% | 6% |
| | | | | | | | grade 6 events | 1796 | 1885 | 1570 | 1729 | 2015 | 10609 |
| | | | | | | | | 3% | 2% | 2% | 2% | 2% | 20% |
| | | | | | | | grade 7 events | 46570 | 52569 | 56354 | 50755 | 56873 | 26930 |
| | | | | | | | | 79% | 79% | 82% | 78% | 81% | 51% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|-----------------------|-----------------------|---------------------------------------|-----------|----------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012367 | ACIS-012367 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | OVERRIDE | OVERRIDE |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | SECONDARY | SECONDARY | On-chip summing requested | N | N |
| [deg] Pointing RA | 0 | 173.1539873552081 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -22.79723752143899 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 335.3267932078703 | [s] Primary exposure time | 3.2 | 3.2 |
| SIM focus pos (mm) | -1.4281808131 | -1.4281808131 | | | |
| [mm] SIM defocus | 0.1051557500557434 | 0.1051557500557434 | | | |
| SIM translation stage pos (mm) | 250.4635187649 | 250.4635187649 | | | |
| [mm] SIM translation stage offset | -0.007542945905271381 | -0.007542945905271381 | | | |
| [s] Observation start time (MET) | 543542567.285344 | 543542567.285344 | | | |
| Observation start date | 2015-03-24T00:02:47 | 2015-03-24T00:02:47 | | | |
| [s] Observation end time (MET) | 543547917.844623 | 543547917.844623 | | | |
| Observation end date | 2015-03-24T01:31:58 | 2015-03-24T01:31:57 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2015.03.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.9764294476509 |

A.2 Comments