

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 51032 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : May 12 2016

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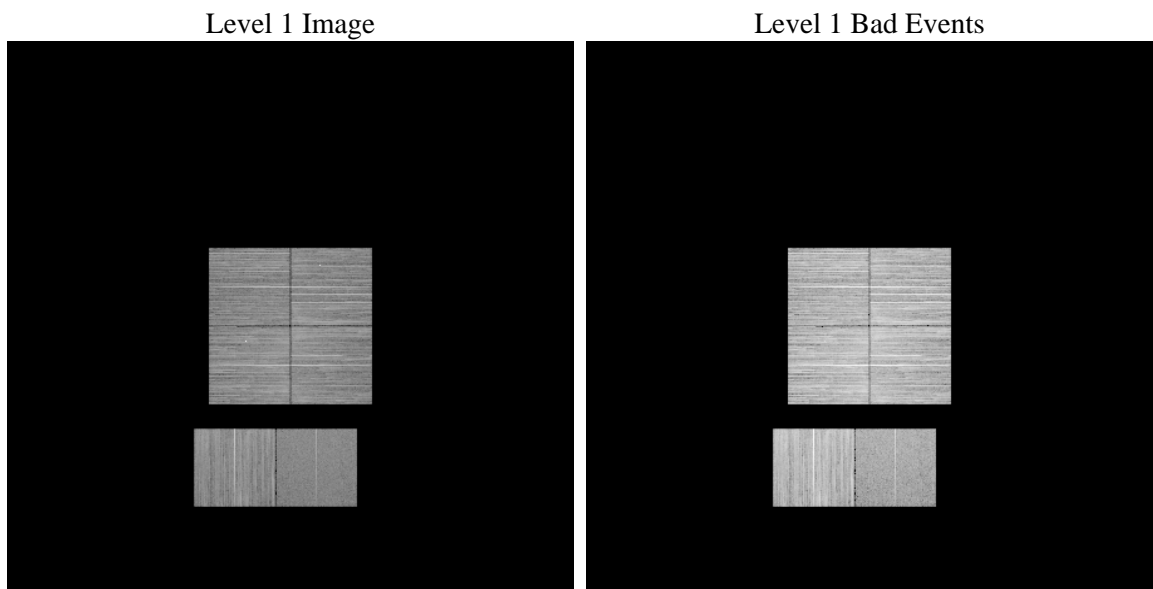
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51032 | 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 | 307.03987700224 | Nominal RA [deg] |
| dec_nom | 16.61407036837 | Nominal Dec [deg] |
| roll_nom | 107.52498952554 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8130.4385266304 | Sum of GTIs [s] |
| livetime | 8027.4860184439 | Livetime [s] |
| ontime0 | 8130.3974865675 | Sum of GTIs [s] |
| ontime1 | 8130.3564466238 | Sum of GTIs [s] |
| ontime2 | 8130.3154065609 | Sum of GTIs [s] |
| ontime3 | 8130.4795665741 | Sum of GTIs [s] |
| ontime6 | 8130.2743666172 | Sum of GTIs [s] |
| ontime7 | 8130.4385266304 | Sum of GTIs [s] |
| l2events | 170298 | Number of level 2 events |

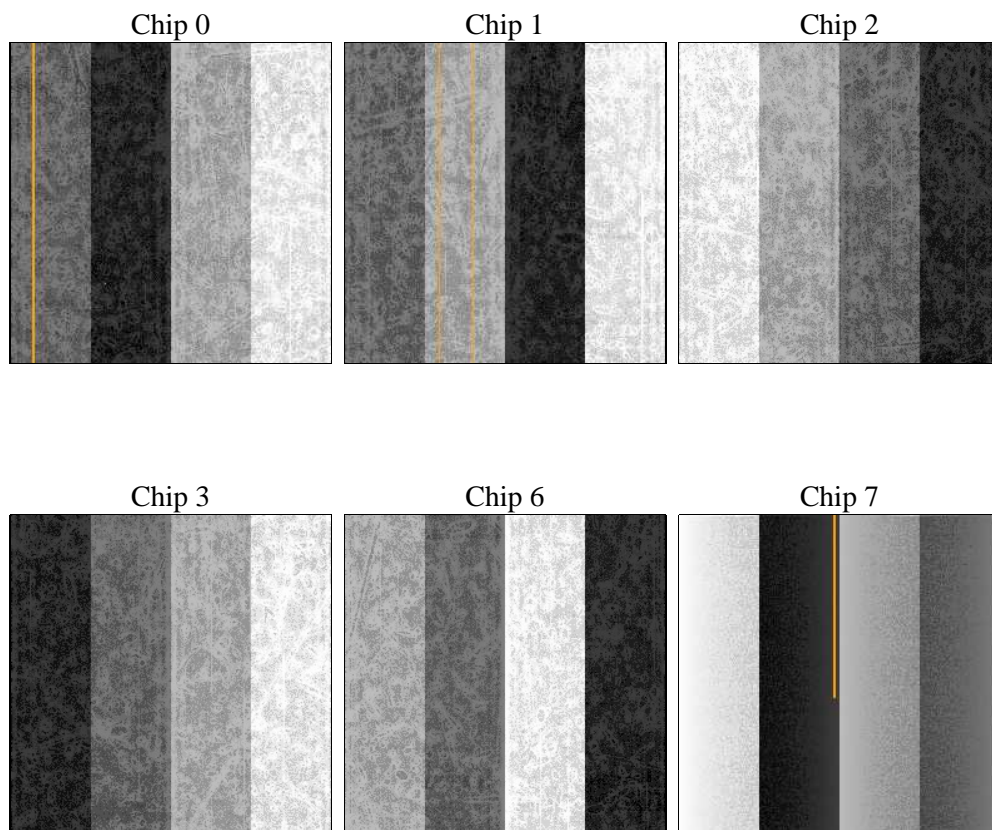
2 OBI

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 | 10.4.3.1 | Processing system revision | ontime | 8130.4385266304 | Sum of GTIs [s] |
| caldsver | 4.7.1 | | ontime0 | 8130.3974865675 | Sum of GTIs [s] |
| date | 2016-05-12T17:21:28 | Date and time of file creation | ontime1 | 8130.3564466238 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 8130.3154065609 | Sum of GTIs [s] |
| | | | ontime3 | 8130.4795665741 | Sum of GTIs [s] |
| | | | ontime6 | 8130.2743666172 | Sum of GTIs [s] |
| | | | ontime7 | 8130.4385266304 | Sum of GTIs [s] |
| | | | l1events | 1082547 | 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 | 172007 | 189517 | 207295 | 190243 | 184678 | 138807 | grade 0 events | 11350 | 11649 | 14610 | 12116 | 10815 | 6380 |
| rejected events | 146989 | 162800 | 180093 | 165166 | 158780 | 84018 | | 6% | 6% | 7% | 6% | 5% | 4% |
| rejected % | 85% | 85% | 86% | 86% | 85% | 60% | grade 1 events | 68 | 71 | 110 | 72 | 60 | 107 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 6205 | 7177 | 5601 | 5577 | 7004 | 14078 |
| | | | | | | | | 3% | 3% | 2% | 2% | 3% | 10% |
| | | | | | | | grade 3 events | 1709 | 1583 | 1720 | 1790 | 1556 | 3797 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 2% |
| | | | | | | | grade 4 events | 1598 | 1614 | 1636 | 1788 | 1524 | 3760 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 2% |
| | | | | | | | grade 5 events | 3172 | 3032 | 2957 | 3711 | 3340 | 8446 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 6% |
| | | | | | | | grade 6 events | 4790 | 5307 | 4366 | 4445 | 5651 | 27782 |
| | | | | | | | | 2% | 2% | 2% | 2% | 3% | 20% |
| | | | | | | | grade 7 events | 143115 | 159084 | 176295 | 160744 | 154728 | 74457 |
| | | | | | | | | 83% | 83% | 85% | 84% | 83% | 53% |

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 | 307.0398770022437 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 16.61407036836993 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 107.5249895255369 | [s] Primary exposure time | 3.2 | 3.2 |
| SIM focus pos (mm) | -0.68282252473119 | -0.68282252473119 | | | |
| [mm] SIM defocus | 0.8505140384245534 | 0.8505140384245534 | | | |
| SIM translation stage pos (mm) | 250.4635187649 | 250.4635187649 | | | |
| [mm] SIM translation stage offset | -0.007542945905271381 | -0.007542945905271381 | | | |
| [s] Observation start time (MET) | 579407285.188368 | 579407285.188368 | | | |
| Observation start date | 2016-05-12T02:28:05 | 2016-05-12T02:28:05 | | | |
| [s] Observation end time (MET) | 579416832.121984 | 579416832.121984 | | | |
| Observation end date | 2016-05-12T05:07:12 | 2016-05-12T05:07:12 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2016.05.12 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.1304385266304 |

A.2 Comments