

V&V Reference Report

L2 ASCDS Version : 10.2.2

Observation 52689 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jun 22 2014

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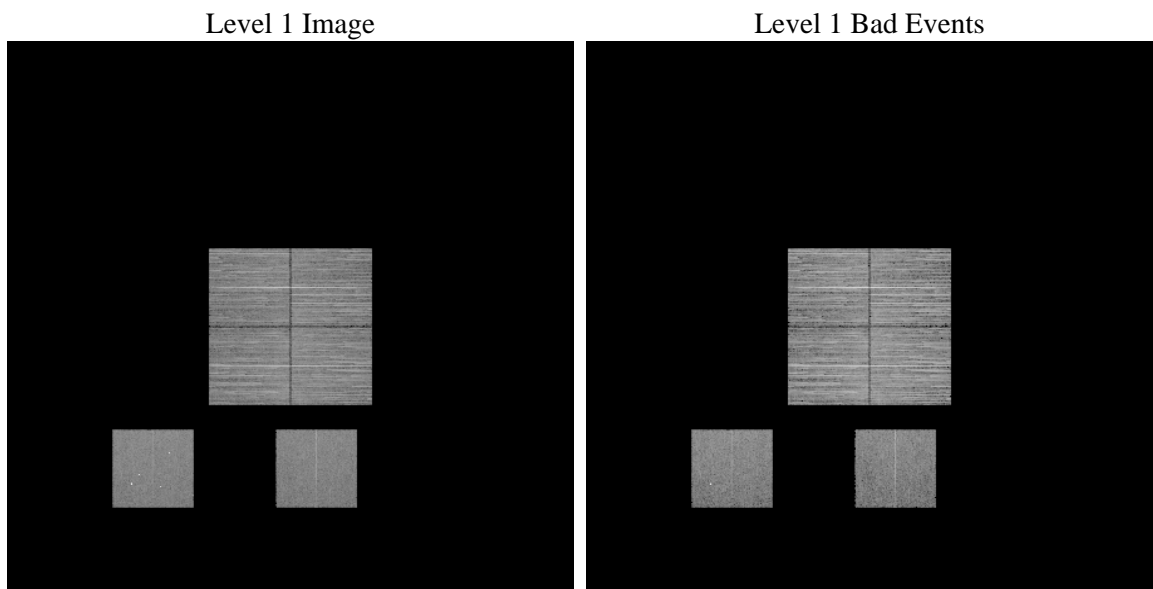
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 52689 | Observation id |
| title | ACIS-012357 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 | 276.03542881044 | Nominal RA [deg] |
| dec_nom | -40.512694105138 | Nominal Dec [deg] |
| roll_nom | 38.259156757009 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8207.6176471114 | Sum of GTIs [s] |
| livetime | 8103.6878504297 | Livetime [s] |
| ontime0 | 8207.5766071081 | Sum of GTIs [s] |
| ontime1 | 8207.5355671048 | Sum of GTIs [s] |
| ontime2 | 8207.4945271015 | Sum of GTIs [s] |
| ontime3 | 8207.6586871147 | Sum of GTIs [s] |
| ontime5 | 8207.4534870982 | Sum of GTIs [s] |
| ontime7 | 8207.6176471114 | Sum of GTIs [s] |
| l2events | 194794 | Number of level 2 events |

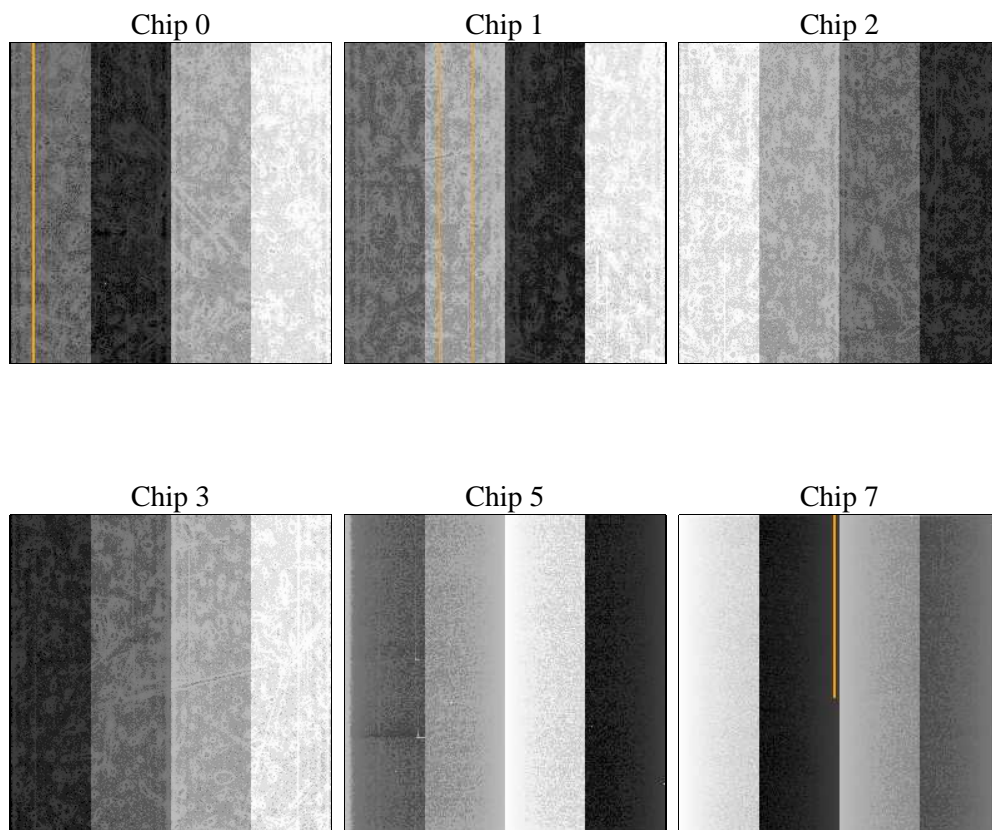
2 OBI

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 | 10.2.2 | Processing system revision | ontime | 8207.6176471114 | Sum of GTIs [s] |
| caldsver | 4.6.1 | | ontime0 | 8207.5766071081 | Sum of GTIs [s] |
| date | 2014-06-22T06:23:41 | Date and time of file creation | ontime1 | 8207.5355671048 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 8207.4945271015 | Sum of GTIs [s] |
| | | | ontime3 | 8207.6586871147 | Sum of GTIs [s] |
| | | | ontime5 | 8207.4534870982 | Sum of GTIs [s] |
| | | | ontime7 | 8207.6176471114 | Sum of GTIs [s] |
| | | | l1events | 753631 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|-------|--------|--------|--------|-------|-------|
| level 1 events | 125199 | 129885 | 130959 | 137425 | 120454 | 109709 | grade 0 events | 13127 | 12953 | 13602 | 13375 | 7531 | 7100 |
| rejected events | 99307 | 103624 | 104805 | 111447 | 65538 | 60391 | | 10% | 9% | 10% | 9% | 6% | 6% |
| rejected % | 79% | 79% | 80% | 81% | 54% | 55% | grade 1 events | 65 | 52 | 59 | 89 | 99 | 76 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 5227 | 5634 | 4967 | 5017 | 20109 | 12087 |
| | | | | | | | | 4% | 4% | 3% | 3% | 16% | 11% |
| | | | | | | | grade 3 events | 1856 | 1776 | 1872 | 1838 | 1864 | 4146 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1795 | 1774 | 1881 | 1871 | 1828 | 4038 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 2649 | 2714 | 2484 | 2925 | 5524 | 6887 |
| | | | | | | | | 2% | 2% | 1% | 2% | 4% | 6% |
| | | | | | | | grade 6 events | 4087 | 4329 | 4038 | 4084 | 23973 | 22282 |
| | | | | | | | | 3% | 3% | 3% | 2% | 19% | 20% |
| | | | | | | | grade 7 events | 96393 | 100653 | 102056 | 108226 | 59526 | 53093 |
| | | | | | | | | 76% | 77% | 77% | 78% | 49% | 48% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012357 | ACIS-012357 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 276.0354288104372 |
| [deg] Pointing Dec | 0 | -40.51269410513781 |
| [deg] Pointing Roll | 0.0 | 38.25915675700875 |
| SIM focus pos (mm) | -1.4281808131 | -1.4281808131 |
| [mm] SIM defocus | 0.1051557500557434 | 0.1051557500557434 |
| SIM translation stage pos (mm) | 250.4660330802 | 250.4660330802 |
| [mm] SIM translation stage offset | -0.01005726120527584 | -0.01005726120527584 |
| [s] Observation start time (MET) | 519775343.612834 | 519775343.612834 |
| Observation start date | 2014-06-21T22:02:24 | 2014-06-21T22:02:23 |
| [s] Observation end time (MET) | 519784822.904659 | 519784822.904659 |
| Observation end date | 2014-06-22T00:40:23 | 2014-06-22T00:40:22 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|----------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | OVERRIDE | OVERRIDE |
| Number of optional ACIS chips dropped | 0 | 0 |
| 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 | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2014.06.23 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2076176471114 |

A.2 Comments