

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 51923 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Apr 28 2015

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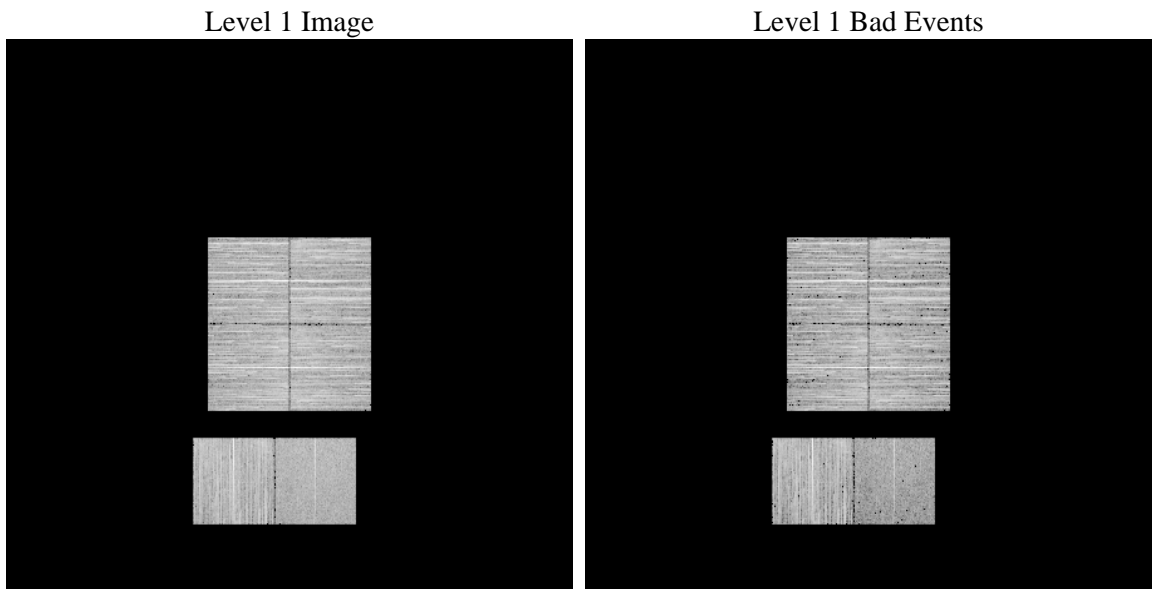
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51923 | 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 | 221.8718530928 | Nominal RA [deg] |
| dec_nom | 10.091917583829 | Nominal Dec [deg] |
| roll_nom | 163.26482963283 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 5372.3619637489 | Sum of GTIs [s] |
| livetime | 5304.3338817159 | Livetime [s] |
| ontime0 | 5372.320923686 | Sum of GTIs [s] |
| ontime1 | 5372.2798837423 | Sum of GTIs [s] |
| ontime2 | 5372.2388436794 | Sum of GTIs [s] |
| ontime3 | 5372.4030036926 | Sum of GTIs [s] |
| ontime6 | 5372.1978037357 | Sum of GTIs [s] |
| ontime7 | 5372.3619637489 | Sum of GTIs [s] |
| l2events | 96764 | Number of level 2 events |

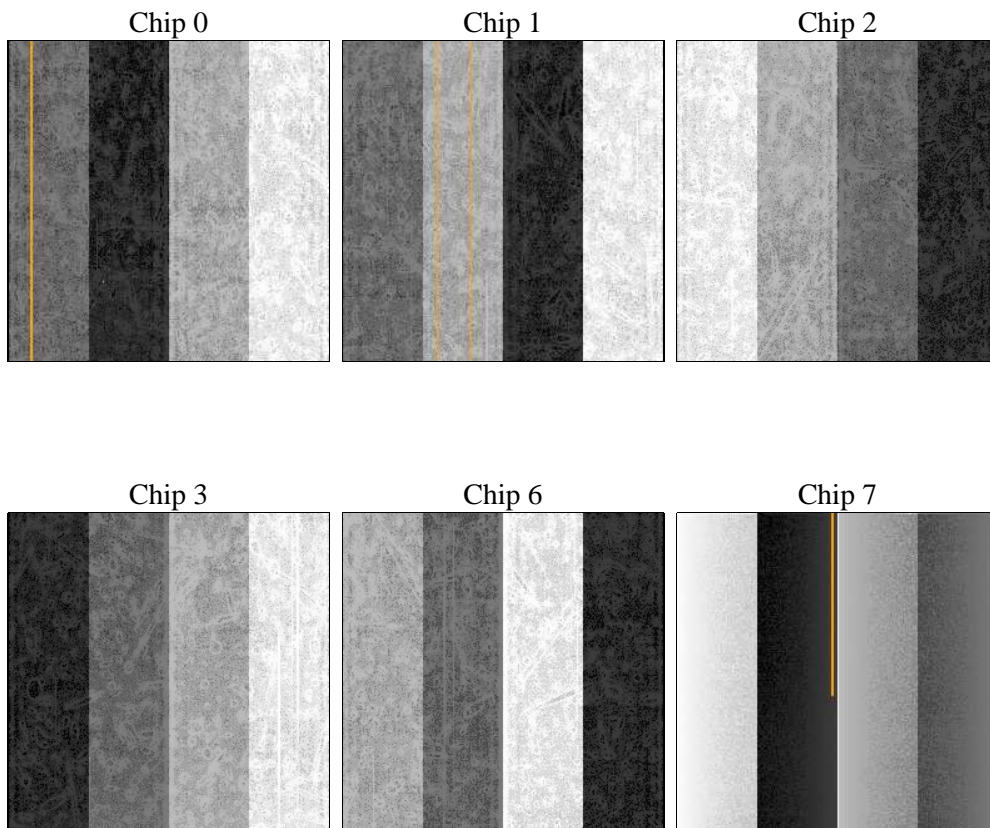
2 OBI

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 | 5372.3619637489 | Sum of GTIs [s] |
| caldsver | 4.6.7 | | ontime0 | 5372.320923686 | Sum of GTIs [s] |
| date | 2015-04-28T12:40:20 | Date and time of file creation | ontime1 | 5372.2798837423 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 5372.2388436794 | Sum of GTIs [s] |
| | | | ontime3 | 5372.4030036926 | Sum of GTIs [s] |
| | | | ontime6 | 5372.1978037357 | Sum of GTIs [s] |
| | | | ontime7 | 5372.3619637489 | Sum of GTIs [s] |
| | | | l1events | 530997 | 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 | 92814 | 94635 | 92724 | 88146 | 91357 | 71321 | grade 0 events | 6975 | 7017 | 7378 | 7183 | 6970 | 3941 |
| rejected events | 78658 | 79977 | 78119 | 73824 | 76518 | 40957 | | 7% | 7% | 7% | 8% | 7% | 5% |
| rejected % | 84% | 84% | 84% | 83% | 83% | 57% | grade 1 events | 45 | 32 | 55 | 37 | 28 | 56 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 2919 | 3129 | 2930 | 2832 | 3148 | 7486 |
| | | | | | | | | 3% | 3% | 3% | 3% | 3% | 10% |
| | | | | | | | grade 3 events | 1013 | 972 | 1040 | 997 | 1045 | 2412 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 931 | 1016 | 1005 | 991 | 1005 | 2437 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 1745 | 1711 | 1606 | 1901 | 1918 | 4508 |
| | | | | | | | | 1% | 1% | 1% | 2% | 2% | 6% |
| | | | | | | | grade 6 events | 2318 | 2524 | 2252 | 2319 | 2671 | 14088 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 19% |
| | | | | | | | grade 7 events | 76868 | 78234 | 76458 | 71886 | 74572 | 36393 |
| | | | | | | | | 82% | 82% | 82% | 81% | 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 | NONE | UPDATED |
| 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 | 221.8718530927967 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 10.09191758382857 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 163.264829632826 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 546546411.9535919 | 546546410.9285901 | | | |
| Observation start date | 2015-04-27T18:26:52 | 2015-04-27T18:26:50 | | | |
| [s] Observation end time (MET) | 546555481.1540999 | 546555480.1291 | | | |
| Observation end date | 2015-04-27T20:58:01 | 2015-04-27T20:58:00 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2015.04.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.3723619637489 |

A.2 Comments