

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 51278 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 7 2016

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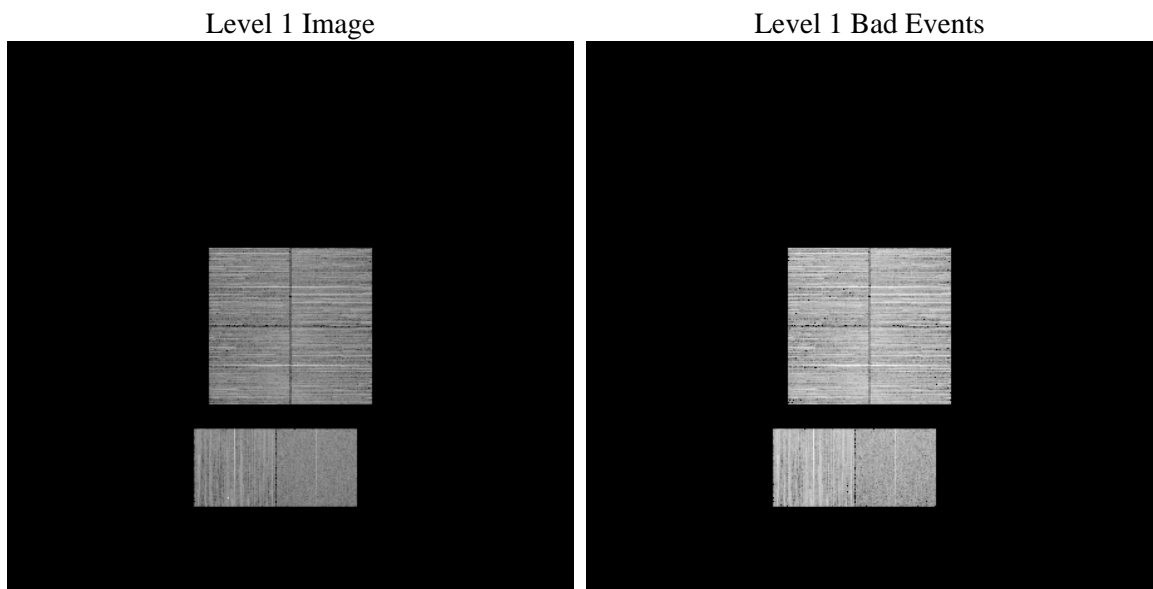
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51278 | 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 | 146.80628610521 | Nominal RA [deg] |
| dec_nom | 39.66838229582 | Nominal Dec [deg] |
| roll_nom | 163.77945194757 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 4982.4000742435 | Sum of GTIs [s] |
| livetime | 4919.3099244623 | Livetime [s] |
| ontime0 | 4982.4000742435 | Sum of GTIs [s] |
| ontime1 | 4982.4000742435 | Sum of GTIs [s] |
| ontime2 | 4982.4000742435 | Sum of GTIs [s] |
| ontime3 | 4982.4000742435 | Sum of GTIs [s] |
| ontime6 | 4982.4000742435 | Sum of GTIs [s] |
| ontime7 | 4982.4000742435 | Sum of GTIs [s] |
| l2events | 87884 | Number of level 2 events |

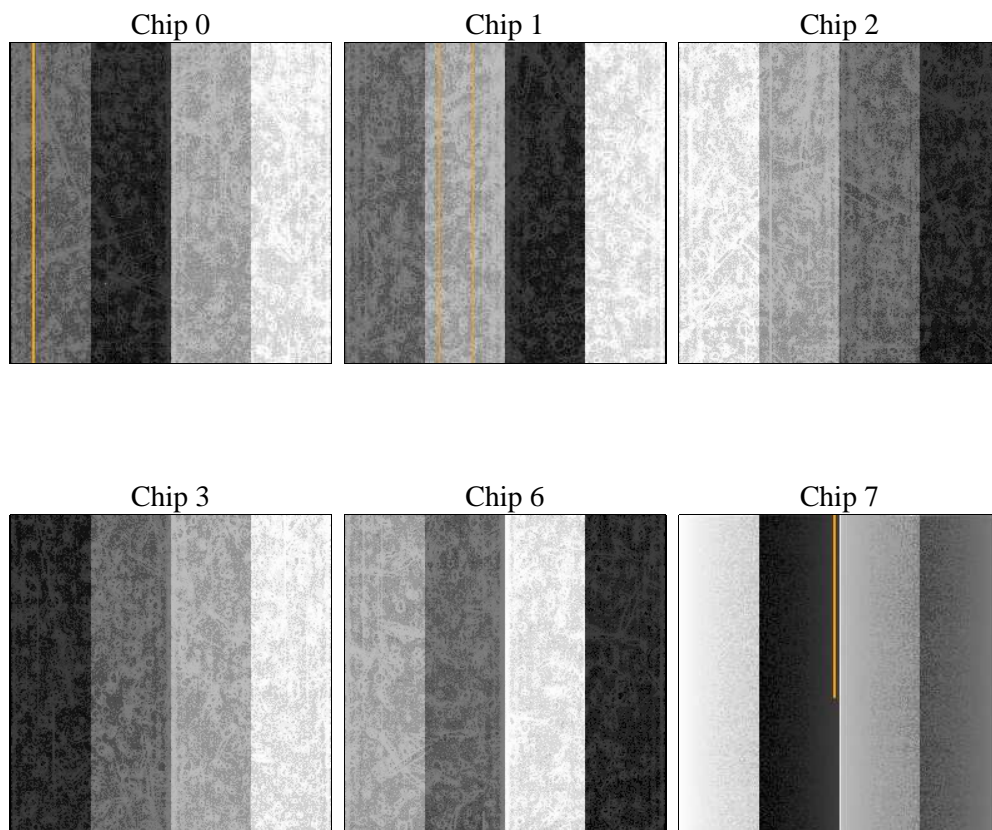
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 10.4.3.1 | Processing system revision | ontime | 4982.4000742435 | Sum of GTIs [s] |
| caldbver | 4.7.0 | | ontime0 | 4982.4000742435 | Sum of GTIs [s] |
| date | 2016-02-07T19:53:00 | Date and time of file creation | ontime1 | 4982.4000742435 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 4982.4000742435 | Sum of GTIs [s] |
| | | | ontime3 | 4982.4000742435 | Sum of GTIs [s] |
| | | | ontime6 | 4982.4000742435 | Sum of GTIs [s] |
| | | | ontime7 | 4982.4000742435 | Sum of GTIs [s] |
| | | | l1events | 561204 | 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 | 94945 | 101621 | 93397 | 96530 | 97385 | 77326 | grade 0 events | 6027 | 5803 | 6156 | 6061 | 5842 | 3453 |
| rejected events | 82343 | 88864 | 80988 | 83986 | 83108 | 46574 | | 6% | 5% | 6% | 6% | 5% | 4% |
| rejected % | 86% | 87% | 86% | 87% | 85% | 60% | grade 1 events | 50 | 22 | 49 | 44 | 24 | 74 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 2753 | 2948 | 2535 | 2604 | 2854 | 7658 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 9% |
| | | | | | | | grade 3 events | 926 | 927 | 876 | 925 | 861 | 2379 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 3% |
| | | | | | | | grade 4 events | 817 | 862 | 904 | 947 | 2346 | 2409 |
| | | | | | | | | 0% | 0% | 0% | 0% | 2% | 3% |
| | | | | | | | grade 5 events | 1919 | 1874 | 1760 | 2119 | 2014 | 5109 |
| | | | | | | | | 2% | 1% | 1% | 2% | 2% | 6% |
| | | | | | | | grade 6 events | 2079 | 2217 | 1938 | 2007 | 2374 | 14853 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 19% |
| | | | | | | | grade 7 events | 80374 | 86968 | 79179 | 81823 | 81070 | 41391 |
| | | | | | | | | 84% | 85% | 84% | 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 | 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 | 146.8062861052119 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 39.66838229582039 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 163.7794519475682 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 571187512.533757 | 571187511.50876 | | | |
| Observation start date | 2016-02-06T23:11:53 | 2016-02-06T23:11:51 | | | |
| [s] Observation end time (MET) | 571226009.485947 | 571226008.46095 | | | |
| Observation end date | 2016-02-07T09:53:29 | 2016-02-07T09:53:28 | | | |
| 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) | 2016.02.07 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.9824000742435 |

A.2 Comments