

V&V Reference Report

L2 ASCDS Version : 10.4.3

Observation 51357 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jan 7 2016

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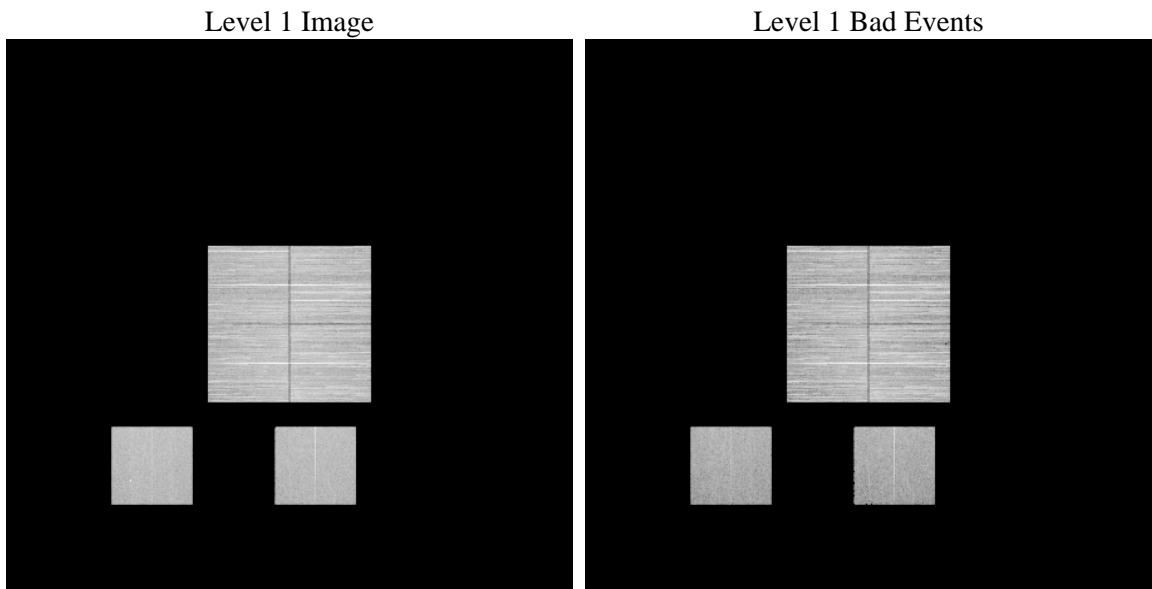
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51357 | Observation id |
| title | ACIS-012357 diagnostics | Proposal title |
| observer | CHANDRA engineering request/realtime commanding | Principal investig |
| object | | Source name |
| dtycle | 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 | 334.05825732039 | Nominal RA [deg] |
| dec_nom | 4.6917888249945 | Nominal Dec [deg] |
| roll_nom | 302.69495401908 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8316.80012393 | Sum of GTIs [s] |
| livetime | 8211.487792985 | Livetime [s] |
| ontime0 | 8316.80012393 | Sum of GTIs [s] |
| ontime1 | 8316.80012393 | Sum of GTIs [s] |
| ontime2 | 8316.80012393 | Sum of GTIs [s] |
| ontime3 | 8316.80012393 | Sum of GTIs [s] |
| ontime5 | 8316.80012393 | Sum of GTIs [s] |
| ontime7 | 8316.80012393 | Sum of GTIs [s] |
| l2events | 274821 | Number of level 2 events |

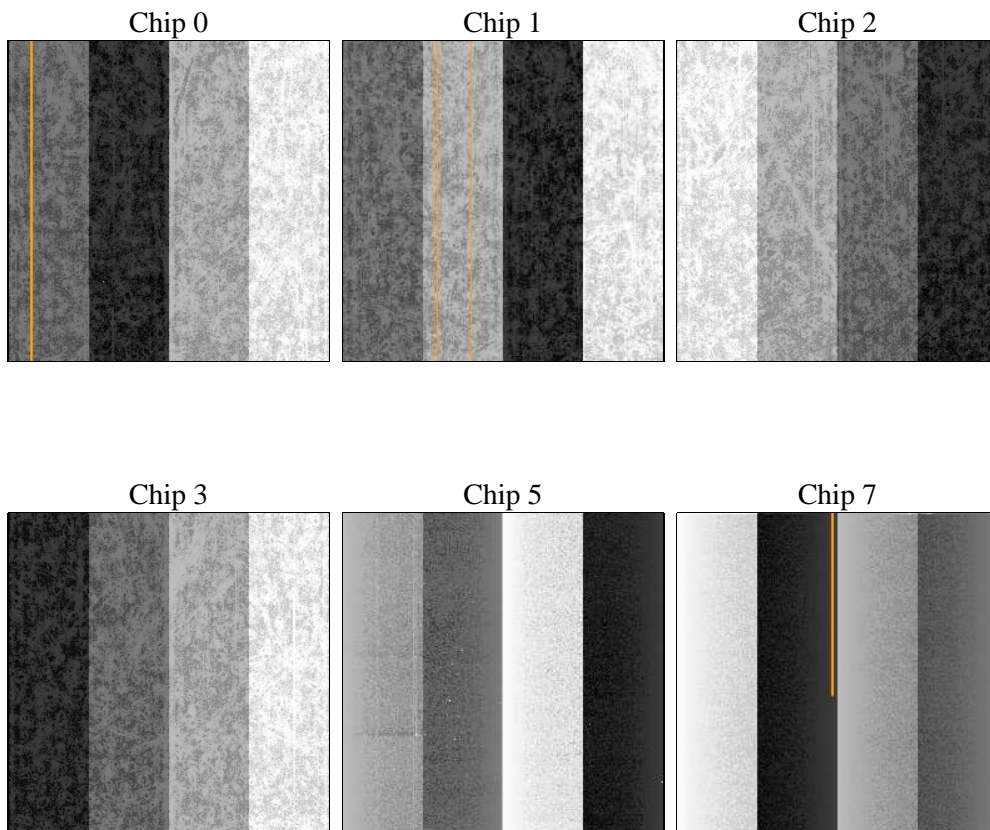
2 OBI

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 | Processing system revision | ontime | 8316.80012393 | Sum of GTIs [s] |
| caldbver | 4.7.0 | | ontime0 | 8316.80012393 | Sum of GTIs [s] |
| date | 2016-01-07T13:52:30 | Date and time of file creation | ontime1 | 8316.80012393 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 8316.80012393 | Sum of GTIs [s] |
| | | | ontime3 | 8316.80012393 | Sum of GTIs [s] |
| | | | ontime5 | 8316.80012393 | Sum of GTIs [s] |
| | | | ontime7 | 8316.80012393 | Sum of GTIs [s] |
| | | | l1events | 1085098 | 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 | 186814 | 202684 | 190492 | 203817 | 153667 | 147624 | grade 0 events | 16774 | 14399 | 17397 | 17539 | 5261 | 8127 |
| rejected events | 146961 | 163049 | 152025 | 164453 | 86136 | 83377 | | 8% | 7% | 9% | 8% | 3% | 5% |
| rejected % | 78% | 80% | 79% | 80% | 56% | 56% | grade 1 events | 107 | 61 | 94 | 115 | 232 | 104 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 10982 | 13016 | 9504 | 9692 | 25696 | 16941 |
| | | | | | | | | 5% | 6% | 4% | 4% | 16% | 11% |
| | | | | | | | grade 3 events | 2207 | 2030 | 2336 | 2337 | 1938 | 4282 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 2% |
| | | | | | | | grade 4 events | 2294 | 2033 | 2328 | 2385 | 1977 | 4144 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 2% |
| | | | | | | | grade 5 events | 3166 | 3110 | 3042 | 3587 | 6243 | 7746 |
| | | | | | | | | 1% | 1% | 1% | 1% | 4% | 5% |
| | | | | | | | grade 6 events | 7896 | 8454 | 7165 | 7695 | 33461 | 31403 |
| | | | | | | | | 4% | 4% | 3% | 3% | 21% | 21% |
| | | | | | | | grade 7 events | 143388 | 159581 | 148626 | 160467 | 78859 | 74877 |
| | | | | | | | | 76% | 78% | 78% | 78% | 51% | 50% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012357 | ACIS-012357 | 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 | 334.0582573203901 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 4.691788824994529 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 302.6949540190772 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.8505141146731063 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 568482227.830092 | 568482226.80509 | | | |
| Observation start date | 2016-01-06T15:43:48 | 2016-01-06T15:43:46 | | | |
| [s] Observation end time (MET) | 568494902.980811 | 568494901.95581 | | | |
| Observation end date | 2016-01-06T19:15:03 | 2016-01-06T19:15:01 | | | |
| 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) | 2016.01.07 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.31680012393 |

A.2 Comments