

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 51086 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Apr 21 2016

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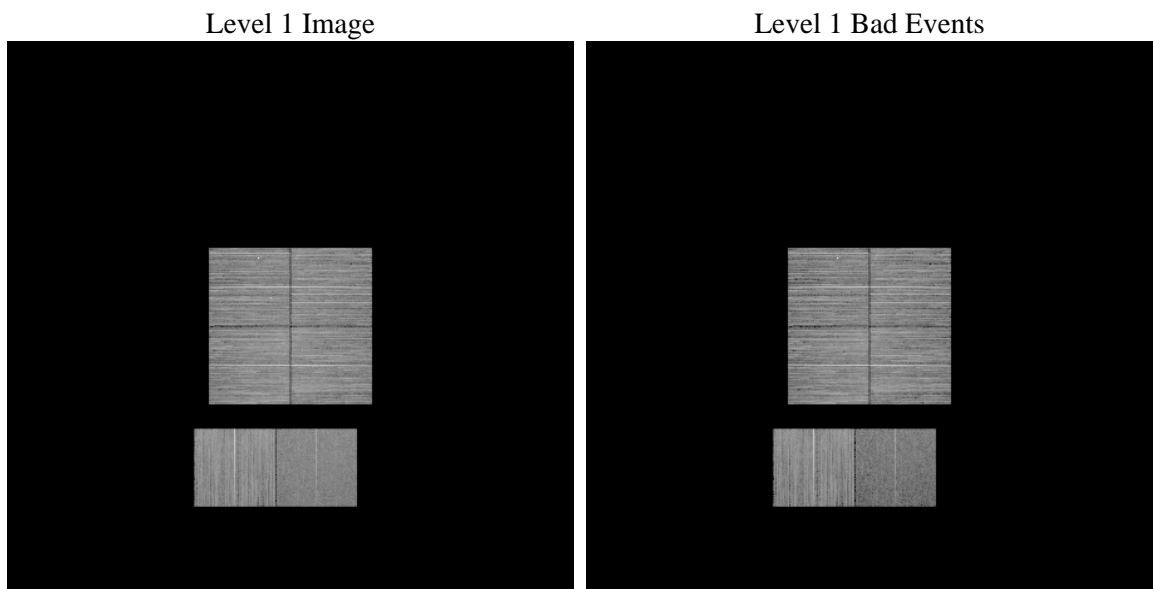
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51086 | 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 | 343.97386909249 | Nominal RA [deg] |
| dec_nom | -13.985664930339 | Nominal Dec [deg] |
| roll_nom | 117.90357263043 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8073.600120306 | Sum of GTIs [s] |
| livetime | 7971.3673342443 | Livetime [s] |
| ontime0 | 7960.1264344454 | Sum of GTIs [s] |
| ontime1 | 7950.3600600958 | Sum of GTIs [s] |
| ontime2 | 7953.5600600243 | Sum of GTIs [s] |
| ontime3 | 7956.922680378 | Sum of GTIs [s] |
| ontime6 | 7982.688380003 | Sum of GTIs [s] |
| ontime7 | 8073.600120306 | Sum of GTIs [s] |
| l2events | 136423 | Number of level 2 events |

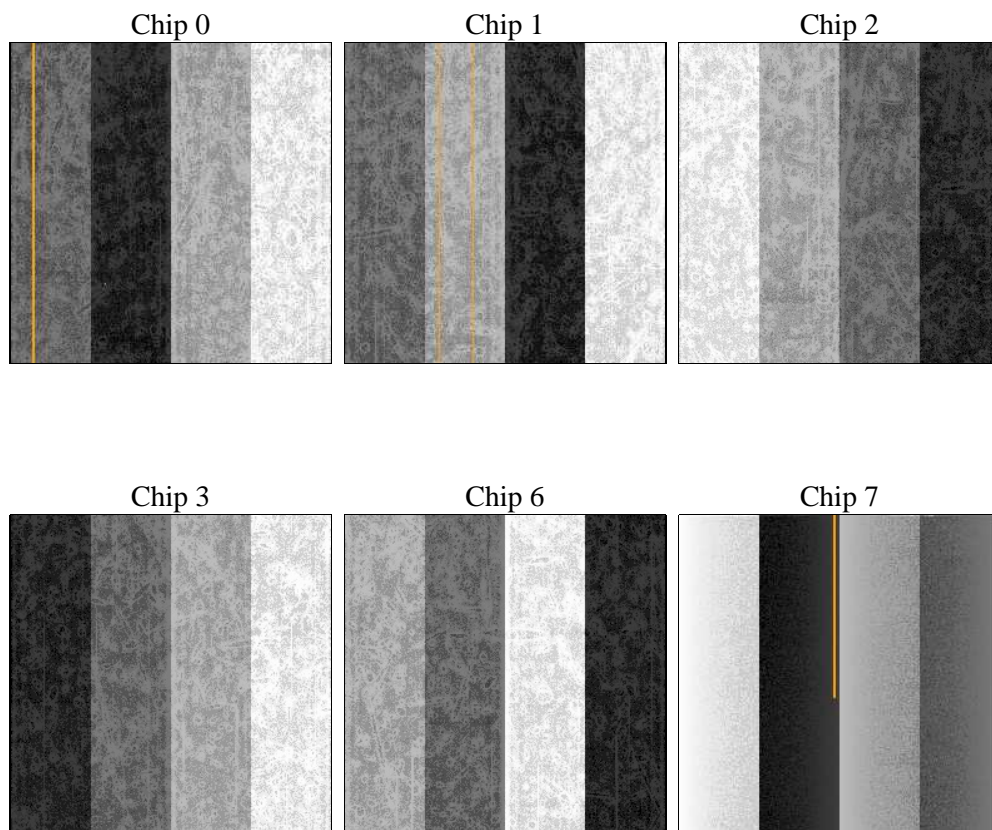
2 OBI

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 | 8073.600120306 | Sum of GTIs [s] |
| caldsver | 4.7.1 | | ontime0 | 7960.1264344454 | Sum of GTIs [s] |
| date | 2016-04-21T22:04:47 | Date and time of file creation | ontime1 | 7950.3600600958 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 7953.5600600243 | Sum of GTIs [s] |
| | | | ontime3 | 7956.922680378 | Sum of GTIs [s] |
| | | | ontime6 | 7982.688380003 | Sum of GTIs [s] |
| | | | ontime7 | 8073.600120306 | Sum of GTIs [s] |
| | | | l1events | 1005692 | 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 | 170075 | 171139 | 183515 | 173862 | 179041 | 128060 | grade 0 events | 9361 | 7939 | 9118 | 9065 | 7889 | 4944 |
| rejected events | 150124 | 151479 | 164380 | 154643 | 159224 | 79195 | | 5% | 4% | 4% | 5% | 4% | 3% |
| rejected % | 88% | 88% | 89% | 88% | 88% | 61% | grade 1 events | 61 | 48 | 73 | 72 | 64 | 107 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4862 | 5554 | 4427 | 4341 | 5741 | 12256 |
| | | | | | | | | 2% | 3% | 2% | 2% | 3% | 9% |
| | | | | | | | grade 3 events | 1300 | 1198 | 1335 | 1387 | 1172 | 3403 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 2% |
| | | | | | | | grade 4 events | 1256 | 1254 | 1329 | 1398 | 1208 | 3298 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 2% |
| | | | | | | | grade 5 events | 2836 | 2883 | 2648 | 3329 | 2921 | 7778 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 6% |
| | | | | | | | grade 6 events | 3373 | 3864 | 3091 | 3201 | 3973 | 25309 |
| | | | | | | | | 1% | 2% | 1% | 1% | 2% | 19% |
| | | | | | | | grade 7 events | 147026 | 148399 | 161494 | 151069 | 156073 | 70965 |
| | | | | | | | | 86% | 86% | 88% | 86% | 87% | 55% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 343.9738690924876 |
| [deg] Pointing Dec | 0 | -13.98566493033852 |
| [deg] Pointing Roll | 0.0 | 117.9035726304317 |
| [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) | 577621681.7862689 | 577621680.76127 |
| Observation start date | 2016-04-21T10:28:02 | 2016-04-21T10:28:00 |
| [s] Observation end time (MET) | 577634045.3369761 | 577634044.31198 |
| Observation end date | 2016-04-21T13:54:05 | 2016-04-21T13:54:04 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| 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 | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2016.04.21 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.073600120306 |

A.2 Comments