

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58110 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : May 5 2012

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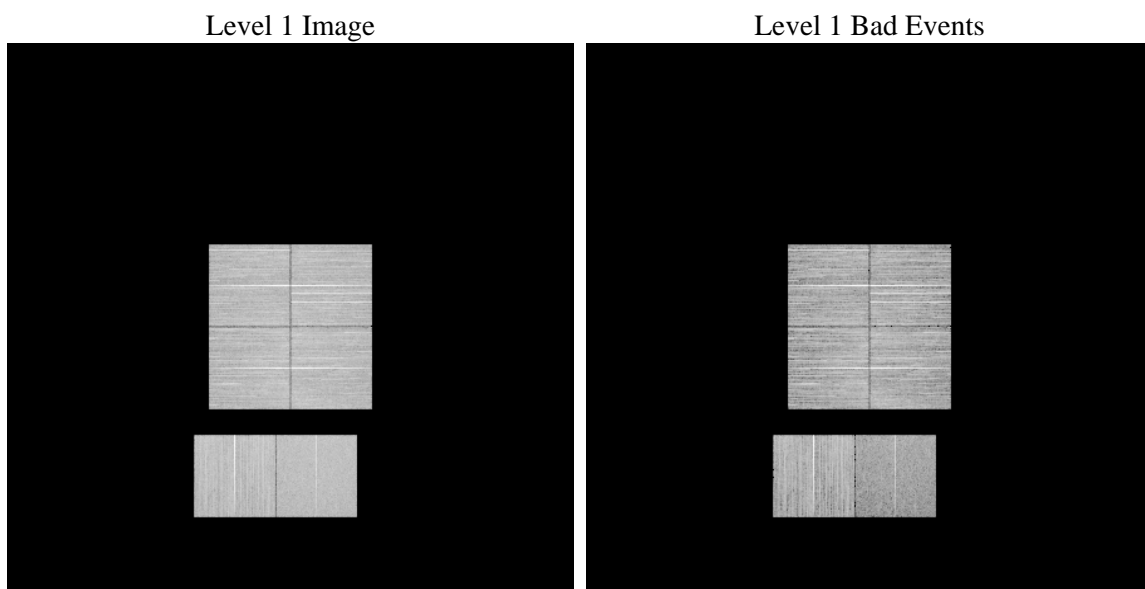
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58110 | 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 | 39.99300946478 | Nominal RA [deg] |
| dec_nom | 41.971526151077 | Nominal Dec [deg] |
| roll_nom | 229.12675982824 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 6597.5595139265 | Sum of GTIs [s] |
| livetime | 6514.0172427878 | Livetime [s] |
| ontime0 | 5352.9779525995 | Sum of GTIs [s] |
| ontime1 | 5483.804744184 | Sum of GTIs [s] |
| ontime2 | 5169.4285026789 | Sum of GTIs [s] |
| ontime3 | 5414.6384609342 | Sum of GTIs [s] |
| ontime6 | 5680.1946155429 | Sum of GTIs [s] |
| ontime7 | 6597.5595139265 | Sum of GTIs [s] |
| l2events | 480777 | Number of level 2 events |

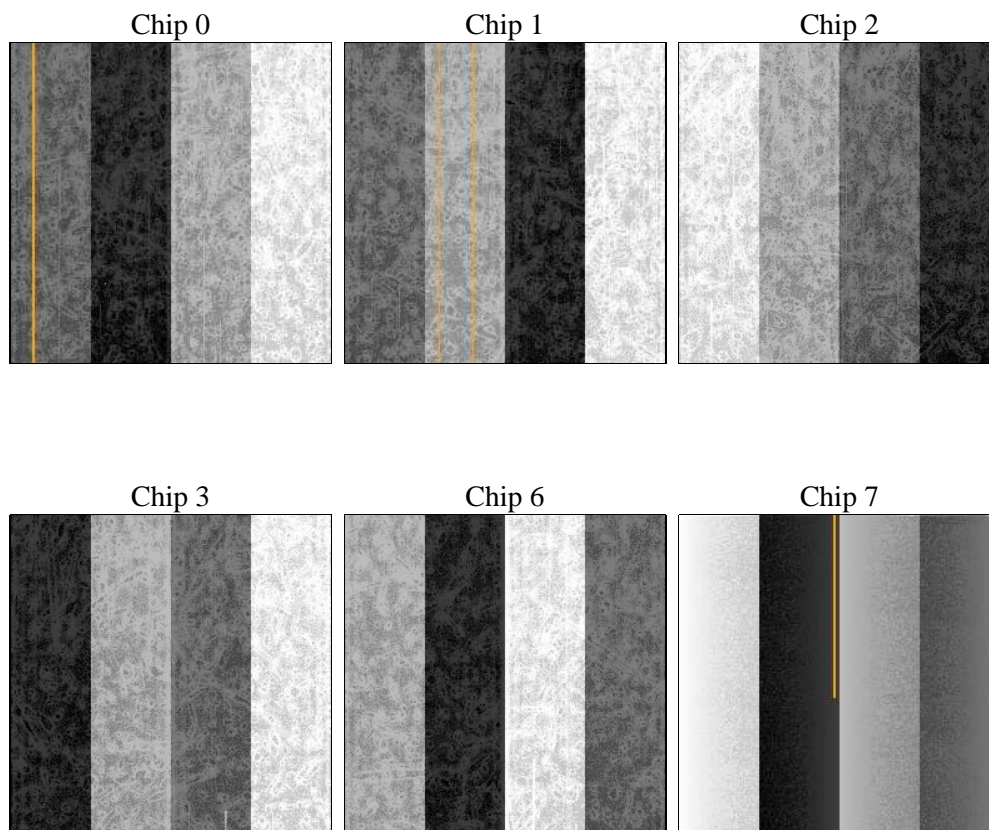
2 OBI

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 | 8.4.4 | Processing system revision | ontime | 6597.5595139265 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 5352.9779525995 | Sum of GTIs [s] |
| date | 2012-05-05T07:46:20 | Date and time of file creation | ontime1 | 5483.804744184 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 5169.4285026789 | Sum of GTIs [s] |
| | | | ontime3 | 5414.6384609342 | Sum of GTIs [s] |
| | | | ontime6 | 5680.1946155429 | Sum of GTIs [s] |
| | | | ontime7 | 6597.5595139265 | Sum of GTIs [s] |
| | | | l1events | 1197346 | 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 | 195895 | 202078 | 194989 | 197500 | 209566 | 197318 | grade 0 events | 39793 | 40281 | 39300 | 41281 | 43826 | 24834 |
| rejected events | 121459 | 125719 | 122501 | 121245 | 126150 | 74131 | | 20% | 19% | 20% | 20% | 20% | 12% |
| rejected % | 62% | 62% | 62% | 61% | 60% | 37% | grade 1 events | 288 | 235 | 306 | 313 | 258 | 150 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 13747 | 14541 | 13177 | 13776 | 15424 | 29685 |
| | | | | | | | | 7% | 7% | 6% | 6% | 7% | 15% |
| | | | | | | | grade 3 events | 4840 | 4878 | 4828 | 4995 | 5290 | 11275 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 5% |
| | | | | | | | grade 4 events | 4895 | 4851 | 4729 | 5053 | 5228 | 11234 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 5% |
| | | | | | | | grade 5 events | 2524 | 2744 | 2346 | 2833 | 2968 | 8648 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 4% |
| | | | | | | | grade 6 events | 11161 | 11808 | 10454 | 11150 | 13648 | 46159 |
| | | | | | | | | 5% | 5% | 5% | 5% | 6% | 23% |
| | | | | | | | grade 7 events | 118647 | 122740 | 119849 | 118099 | 122924 | 65333 |
| | | | | | | | | 60% | 60% | 61% | 59% | 58% | 33% |

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 | 39.99300946477968 |
| [deg] Pointing Dec | 0 | 41.97152615107697 |
| [deg] Pointing Roll | 0.0 | 229.1267598282444 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 |
| [mm] SIM defocus | 0 | 0.7524282956875696 |
| [mm] SIM translation stage pos | -233.592463 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 312529277.320138 | 312529276.29514 |
| Observation start date | 2007-11-27T05:41:17 | 2007-11-27T05:41:16 |
| [s] Observation end time (MET) | 312549172.5711 | 312549171.5461 |
| Observation end date | 2007-11-27T11:12:53 | 2007-11-27T11:12:51 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| 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) | 2012.05.07 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.5975595139265 |

A.2 Comments