

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 57267 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : May 31 2012

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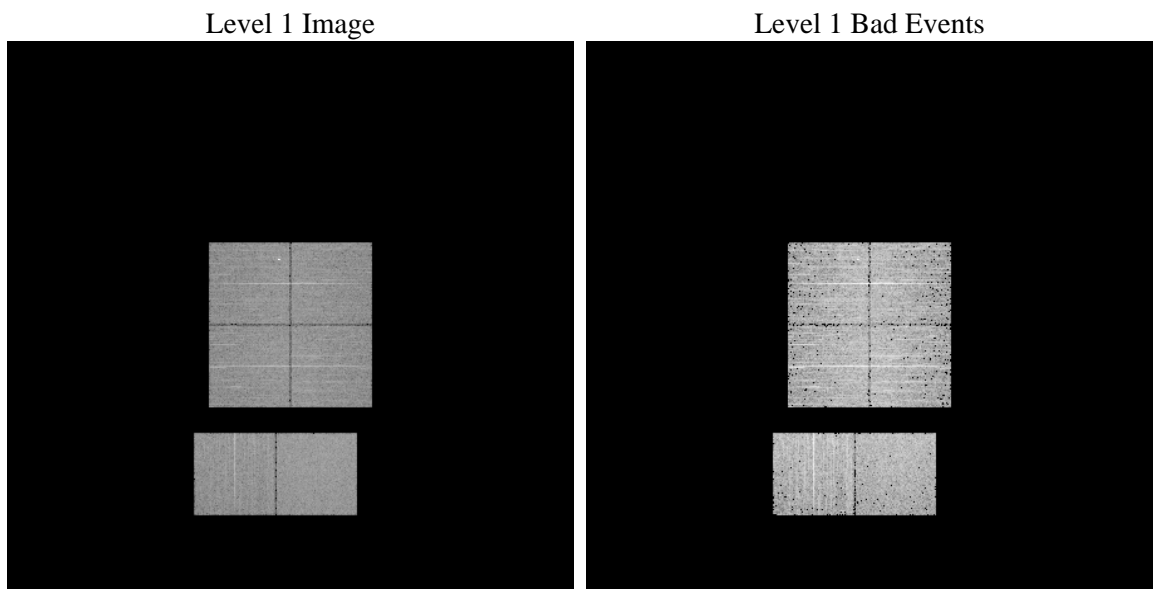
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 57267 | 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 | 179.97124981663 | Nominal RA [deg] |
| dec_nom | 23.311029457628 | Nominal Dec [deg] |
| roll_nom | 124.28565256433 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 3270.3999878764 | Sum of GTIs [s] |
| livetime | 3228.9882140315 | Livetime [s] |
| ontime0 | 3270.3999878764 | Sum of GTIs [s] |
| ontime1 | 3270.3999878764 | Sum of GTIs [s] |
| ontime2 | 3270.3999878764 | Sum of GTIs [s] |
| ontime3 | 3270.3999878764 | Sum of GTIs [s] |
| ontime6 | 3270.3999878764 | Sum of GTIs [s] |
| ontime7 | 3270.3999878764 | Sum of GTIs [s] |
| l2events | 202035 | Number of level 2 events |

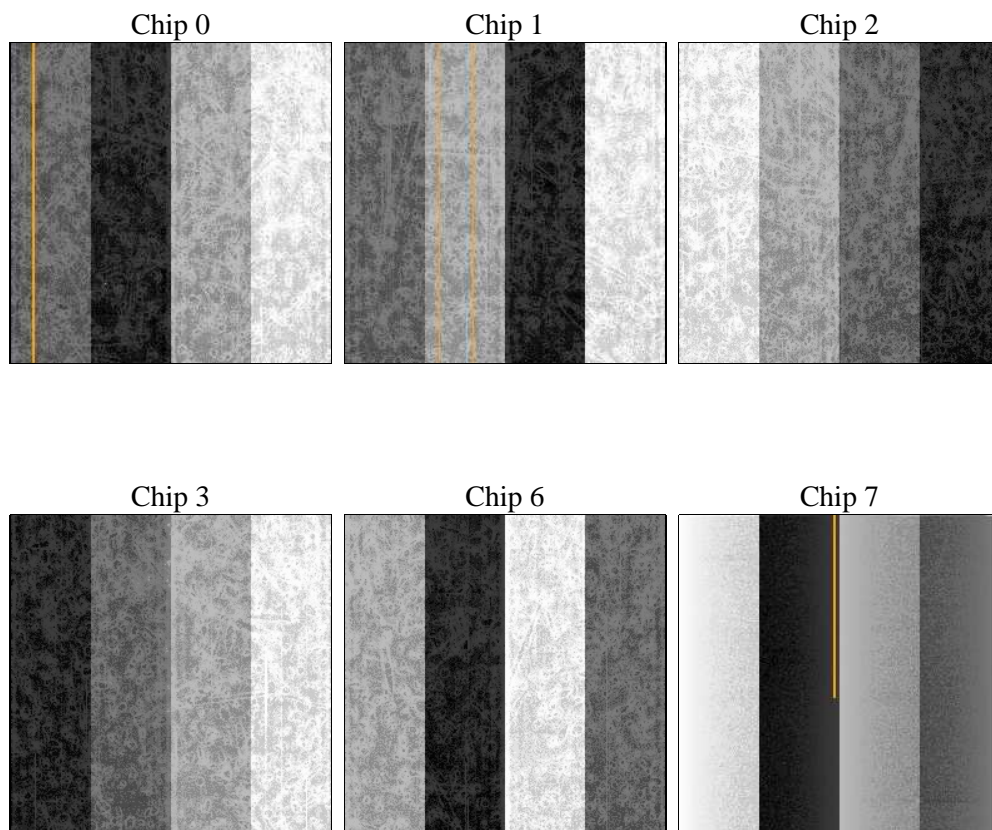
2 OBI

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 | 3270.3999878764 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 3270.3999878764 | Sum of GTIs [s] |
| date | 2012-05-31T17:07:40 | Date and time of file creation | ontime1 | 3270.3999878764 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 3270.3999878764 | Sum of GTIs [s] |
| | | | ontime3 | 3270.3999878764 | Sum of GTIs [s] |
| | | | ontime6 | 3270.3999878764 | Sum of GTIs [s] |
| | | | ontime7 | 3270.3999878764 | Sum of GTIs [s] |
| | | | l1events | 392249 | 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 | 62630 | 61331 | 63432 | 64150 | 65134 | 75572 | grade 0 events | 17302 | 17519 | 17902 | 18055 | 18160 | 9079 |
| rejected events | 29517 | 28049 | 30630 | 31005 | 30811 | 27809 | | 27% | 28% | 28% | 28% | 27% | 12% |
| rejected % | 47% | 45% | 48% | 48% | 47% | 36% | grade 1 events | 143 | 117 | 140 | 141 | 112 | 59 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 6705 | 6251 | 5657 | 5848 | 6111 | 10441 |
| | | | | | | | | 10% | 10% | 8% | 9% | 9% | 13% |
| | | | | | | | grade 3 events | 2195 | 2220 | 2274 | 2256 | 2218 | 4478 |
| | | | | | | | | 3% | 3% | 3% | 3% | 3% | 5% |
| | | | | | | | grade 4 events | 2155 | 2154 | 2275 | 2243 | 2223 | 4447 |
| | | | | | | | | 3% | 3% | 3% | 3% | 3% | 5% |
| | | | | | | | grade 5 events | 1620 | 1672 | 1590 | 1778 | 1843 | 4430 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 5% |
| | | | | | | | grade 6 events | 4795 | 5177 | 4729 | 4779 | 5639 | 19364 |
| | | | | | | | | 7% | 8% | 7% | 7% | 8% | 25% |
| | | | | | | | grade 7 events | 27715 | 26221 | 28865 | 29050 | 28828 | 23274 |
| | | | | | | | | 44% | 42% | 45% | 45% | 44% | 30% |

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 | 179.9712498166272 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 23.31102945762756 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 124.2856525643312 | [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) | 352062401.015784 | 352062399.99078 | | | |
| Observation start date | 2009-02-26T19:06:41 | 2009-02-26T19:06:39 | | | |
| [s] Observation end time (MET) | 352101410.46772 | 352101409.44271 | | | |
| Observation end date | 2009-02-27T05:56:50 | 2009-02-27T05:56:49 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2012.06.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.2703999878764 |

A.2 Comments