

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 58975 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Mar 31 2012

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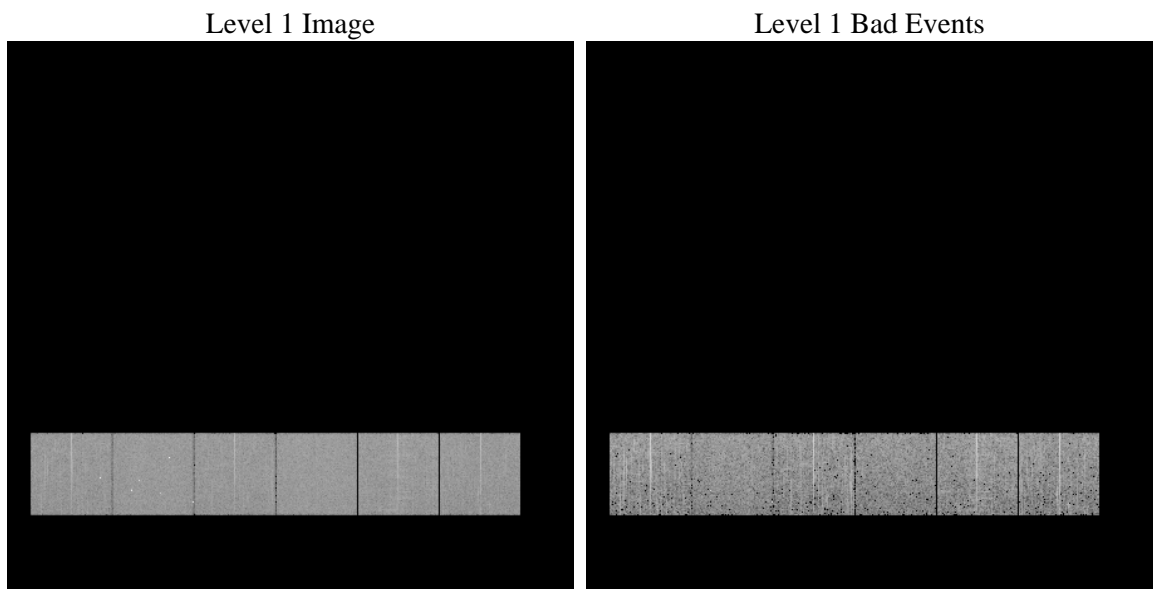
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58975 | Observation id |
| title | ACIS-456789 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 | 256.98235563597 | Nominal RA [deg] |
| dec_nom | -16.477718491104 | Nominal Dec [deg] |
| roll_nom | 96.687857727567 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 3385.5999873877 | Sum of GTIs [s] |
| livetime | 3342.7294817838 | Livetime [s] |
| ontime4 | 3382.3589870632 | Sum of GTIs [s] |
| ontime5 | 3385.5999873877 | Sum of GTIs [s] |
| ontime6 | 3385.5999873877 | Sum of GTIs [s] |
| ontime7 | 3385.5999873877 | Sum of GTIs [s] |
| ontime8 | 3385.5999873877 | Sum of GTIs [s] |
| ontime9 | 3385.5999873877 | Sum of GTIs [s] |
| l2events | 388456 | Number of level 2 events |

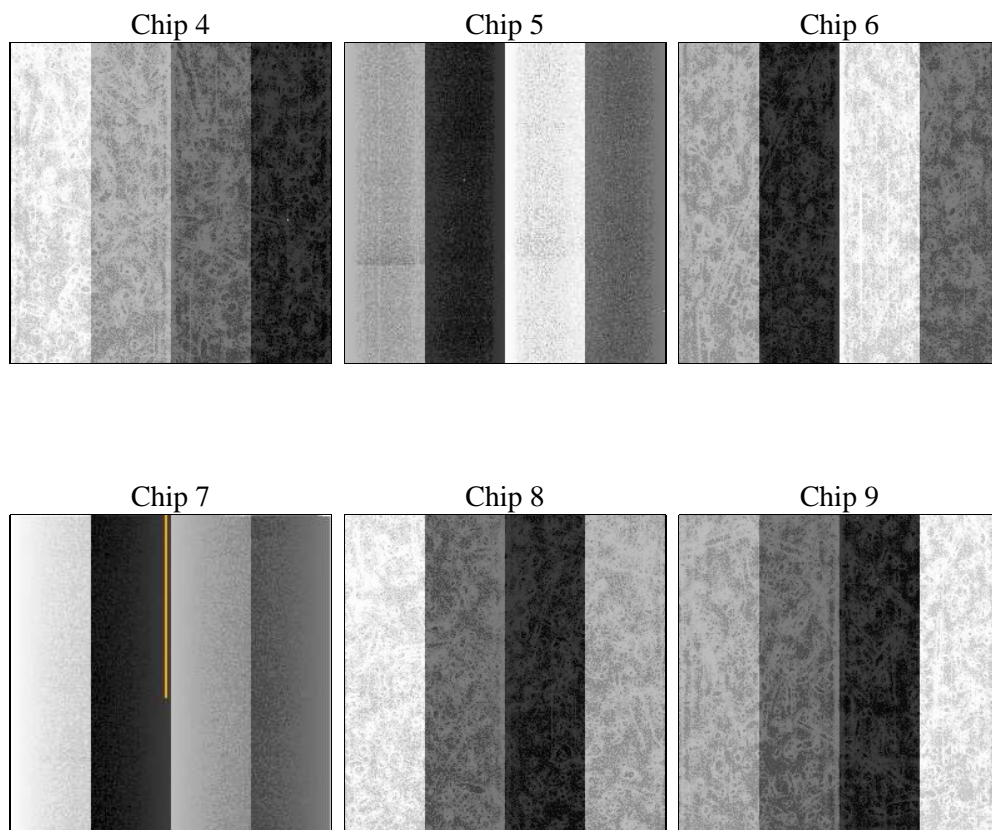
2 OBI

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 | 8.4.3 | Processing system revision | ontime | 3385.5999873877 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime4 | 3382.3589870632 | Sum of GTIs [s] |
| date | 2012-03-31T13:54:16 | Date and time of file creation | ontime5 | 3385.5999873877 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 3385.5999873877 | Sum of GTIs [s] |
| | | | ontime7 | 3385.5999873877 | Sum of GTIs [s] |
| | | | ontime8 | 3385.5999873877 | Sum of GTIs [s] |
| | | | ontime9 | 3385.5999873877 | Sum of GTIs [s] |
| | | | l1events | 591606 | Number of level 1 events |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 | | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|-------|--------|-------|--------|--------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 95792 | 100600 | 97004 | 101992 | 102136 | 94082 | grade 0 events | 36858 | 15602 | 36010 | 17323 | 37674 | 35462 |
| rejected events | 32355 | 27221 | 29749 | 24595 | 31056 | 29137 | | 38% | 15% | 37% | 16% | 36% | 37% |
| rejected % | 33% | 27% | 30% | 24% | 30% | 30% | grade 1 events | 329 | 426 | 226 | 68 | 224 | 254 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 9967 | 25576 | 11834 | 16896 | 12693 | 11179 |
| | | | | | | | | 10% | 25% | 12% | 16% | 12% | 11% |
| | | | | | | | grade 3 events | 4251 | 4009 | 4342 | 7618 | 4963 | 4294 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 4343 | 4056 | 4269 | 7603 | 4807 | 4166 |
| | | | | | | | | 4% | 4% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 5 events | 1757 | 3993 | 1806 | 4293 | 2173 | 1898 |
| | | | | | | | | 1% | 3% | 1% | 4% | 2% | 2% |
| | | | | | | | grade 6 events | 8018 | 24136 | 10800 | 27957 | 10943 | 9844 |
| | | | | | | | | 8% | 23% | 11% | 27% | 10% | 10% |
| | | | | | | | grade 7 events | 30269 | 22802 | 27717 | 20234 | 28659 | 26985 |
| | | | | | | | | 31% | 22% | 28% | 19% | 28% | 28% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-456789 | ACIS-456789 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | On-chip summing requested | N | N |
| Observation mode | SECONDARY | SECONDARY | Subarray requested | NONE | NONE |
| [deg] Pointing RA | 0 | 256.9823556359739 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -16.47771849110416 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 96.68785772756745 | | | |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.8505141146731063 | | | |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 263639478.948176 | 263639477.92317 | | | |
| Observation start date | 2006-05-10T09:11:19 | 2006-05-10T09:11:17 | | | |
| [s] Observation end time (MET) | 263653072.49881 | 263653071.4738 | | | |
| Observation end date | 2006-05-10T12:57:52 | 2006-05-10T12:57:51 | | | |
| 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) | 2012.04.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.3855999873877 |

A.2 Comments