

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59584 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 25 2012

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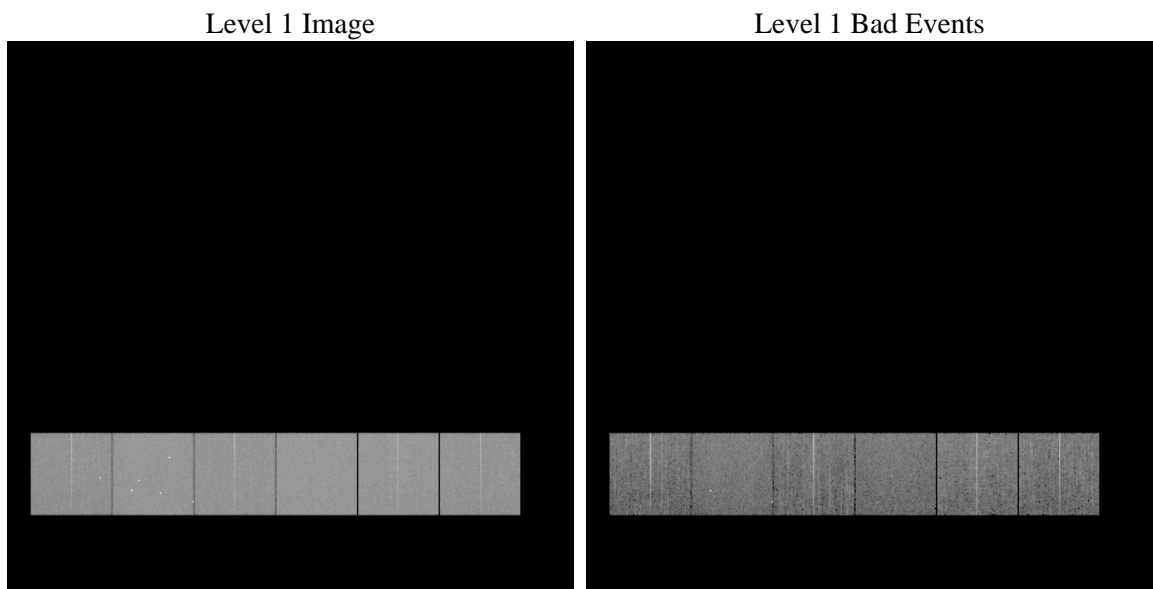
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 59584 | 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 | 106.57555874157 | Nominal RA [deg] |
| dec_nom | -24.217927176523 | Nominal Dec [deg] |
| roll_nom | 185.96324330469 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8275.1999691725 | Sum of GTIs [s] |
| livetime | 8170.4144044356 | Livetime [s] |
| ontime4 | 6862.1414714754 | Sum of GTIs [s] |
| ontime5 | 8275.1999691725 | Sum of GTIs [s] |
| ontime6 | 7413.1046710014 | Sum of GTIs [s] |
| ontime7 | 8275.1999691725 | Sum of GTIs [s] |
| ontime8 | 7717.7553072572 | Sum of GTIs [s] |
| ontime9 | 7194.1294790506 | Sum of GTIs [s] |
| l2events | 1055534 | Number of level 2 events |

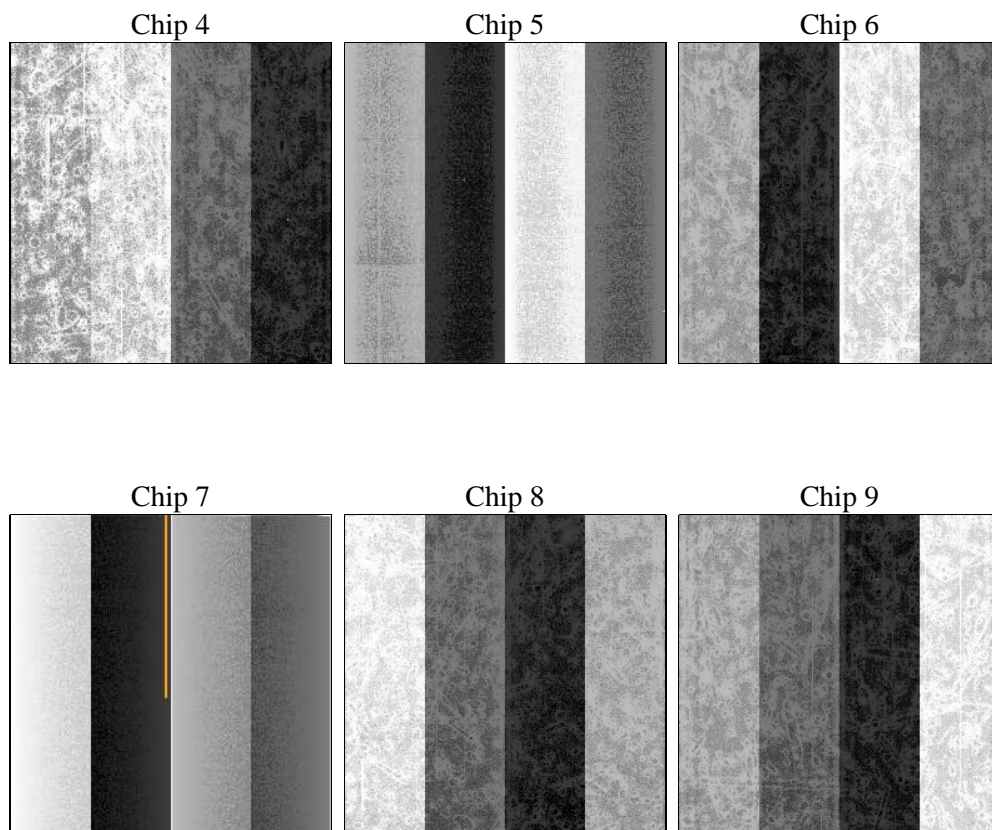
2 OBI

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 | 8.5.1.1 | Processing system revision | ontime | 8275.1999691725 | Sum of GTIs [s] |
| caldsver | 4.5.5 | | ontime4 | 6862.1414714754 | Sum of GTIs [s] |
| date | 2012-12-25T23:48:00 | Date and time of file creation | ontime5 | 8275.1999691725 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 7413.1046710014 | Sum of GTIs [s] |
| | | | ontime7 | 8275.1999691725 | Sum of GTIs [s] |
| | | | ontime8 | 7717.7553072572 | Sum of GTIs [s] |
| | | | ontime9 | 7194.1294790506 | Sum of GTIs [s] |
| | | | l1events | 1489171 | 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 | 216328 | 269813 | 239086 | 273723 | 262949 | 227272 | grade 0 events | 92638 | 45186 | 98427 | 51110 | 105595 | 93091 |
| rejected events | 57833 | 63394 | 57410 | 53642 | 66040 | 57851 | | 42% | 16% | 41% | 18% | 40% | 40% |
| rejected % | 26% | 23% | 24% | 19% | 25% | 25% | grade 1 events | 757 | 524 | 498 | 174 | 613 | 568 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 24593 | 74845 | 31272 | 48136 | 34885 | 29061 |
| | | | | | | | | 11% | 27% | 13% | 17% | 13% | 12% |
| | | | | | | | grade 3 events | 10619 | 10748 | 11317 | 21814 | 13038 | 10867 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 10442 | 10742 | 11281 | 21472 | 13031 | 10819 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 5 events | 3247 | 10162 | 3645 | 9360 | 4586 | 3797 |
| | | | | | | | | 1% | 3% | 1% | 3% | 1% | 1% |
| | | | | | | | grade 6 events | 20203 | 64898 | 29379 | 77549 | 30360 | 25583 |
| | | | | | | | | 9% | 24% | 12% | 28% | 11% | 11% |
| | | | | | | | grade 7 events | 53829 | 52708 | 53267 | 44108 | 60841 | 53486 |
| | | | | | | | | 24% | 19% | 22% | 16% | 23% | 23% |

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 | 106.5755587415688 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -24.21792717652338 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 185.9632433046905 | | | |
| [mm] SIM focus pos | -0.684267 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 236719004.804085 | 236719003.77908 | | | |
| Observation start date | 2005-07-02T19:16:45 | 2005-07-02T19:16:43 | | | |
| [s] Observation end time (MET) | 236740314.55506 | 236740313.53006 | | | |
| Observation end date | 2005-07-03T01:11:55 | 2005-07-03T01:11:53 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2013.01.18 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2751999691725 |

A.2 Comments