

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 59485 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 28 2012

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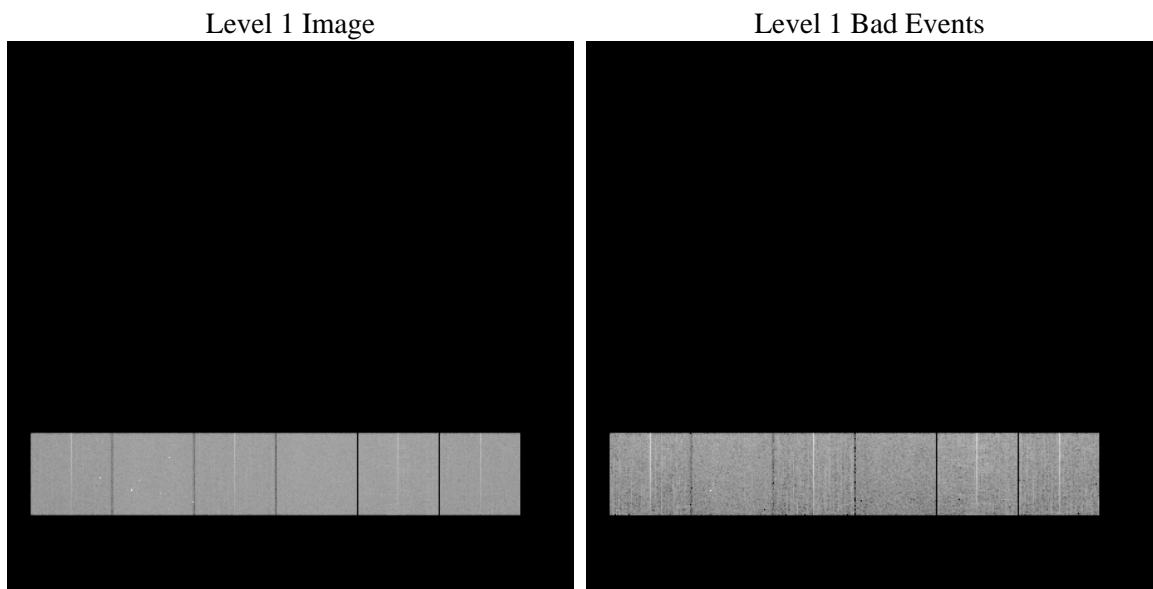
1 Front

| | | |
|----------|-------------------------------------------------|---------------------------------------------|
| seq_num | | Sequence number |
| obs_id | 59485 | 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 | 355.01209967431 | Nominal RA [deg] |
| dec_nom | -32.973256477428 | Nominal Dec [deg] |
| roll_nom | 36.378862238884 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8278.0027795136 | Sum of GTIs [s] |
| livetime | 8173.1817239045 | Livetime [s] |
| ontime4 | 7380.1282469332 | Sum of GTIs [s] |
| ontime5 | 8277.9617395103 | Sum of GTIs [s] |
| ontime6 | 7927.8947776556 | Sum of GTIs [s] |
| ontime7 | 8278.0027795136 | Sum of GTIs [s] |
| ontime8 | 8128.7536253333 | Sum of GTIs [s] |
| ontime9 | 7753.0051511228 | Sum of GTIs [s] |
| l2events | 1054252 | Number of level 2 events |

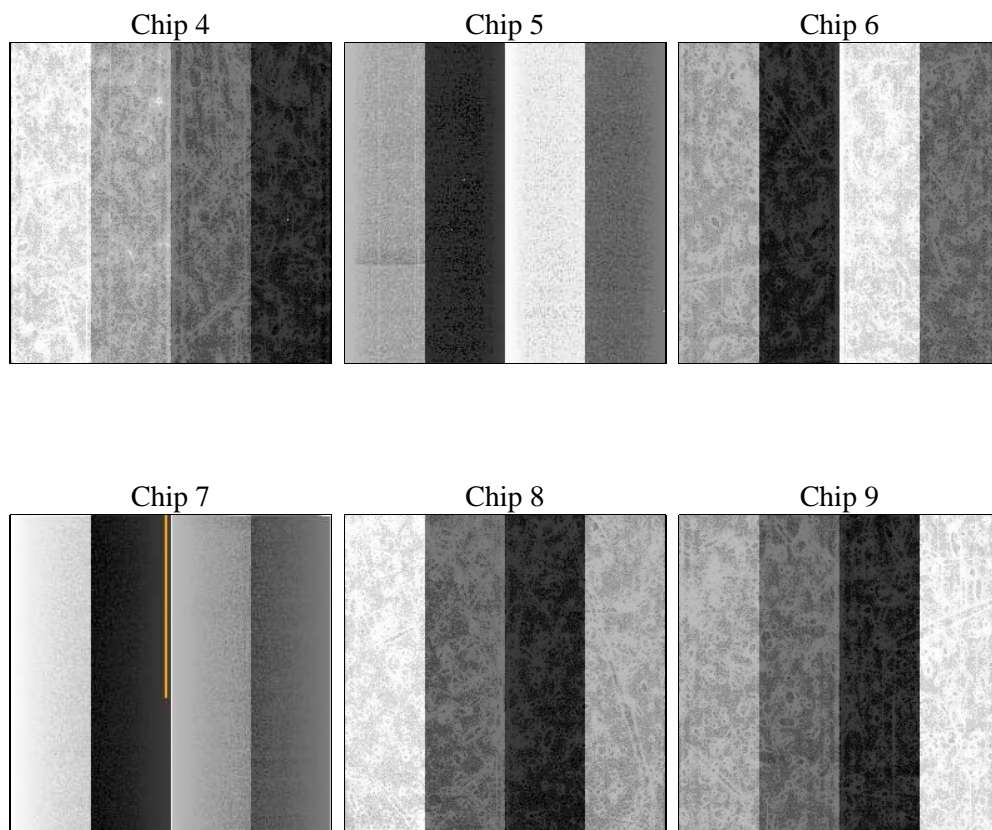
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|-----------------------------------------|
| obi_num | 2 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 8.5.1.1 | Processing system revision | ontime | 8278.0027795136 | Sum of GTIs [s] |
| caldsver | 4.5.5 | | ontime4 | 7380.1282469332 | Sum of GTIs [s] |
| date | 2012-12-28T06:14:39 | Date and time of file creation | ontime5 | 8277.9617395103 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 7927.8947776556 | Sum of GTIs [s] |
| | | | ontime7 | 8278.0027795136 | Sum of GTIs [s] |
| | | | ontime8 | 8128.7536253333 | Sum of GTIs [s] |
| | | | ontime9 | 7753.0051511228 | Sum of GTIs [s] |
| | | | l1events | 1485313 | 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 | 222480 | 252517 | 246092 | 263017 | 266040 | 235167 | grade 0 events | 94775 | 39445 | 100036 | 49126 | 107334 | 96200 |
| rejected events | 60025 | 59544 | 61280 | 52001 | 67065 | 59879 | | 42% | 15% | 40% | 18% | 40% | 40% |
| rejected % | 26% | 23% | 24% | 19% | 25% | 25% | grade 1 events | 755 | 218 | 550 | 169 | 596 | 598 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 25369 | 70770 | 31863 | 46382 | 35024 | 30105 |
| | | | | | | | | 11% | 28% | 12% | 17% | 13% | 12% |
| | | | | | | | grade 3 events | 10926 | 10672 | 11669 | 20815 | 12943 | 11373 |
| | | | | | | | | 4% | 4% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 10726 | 10430 | 11502 | 20518 | 13030 | 11426 |
| | | | | | | | | 4% | 4% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 5 events | 3262 | 8978 | 3644 | 8985 | 4706 | 4016 |
| | | | | | | | | 1% | 3% | 1% | 3% | 1% | 1% |
| | | | | | | | grade 6 events | 20720 | 61738 | 29824 | 74256 | 30723 | 26261 |
| | | | | | | | | 9% | 24% | 12% | 28% | 11% | 11% |
| | | | | | | | grade 7 events | 55947 | 50266 | 57004 | 42766 | 61684 | 55188 |
| | | | | | | | | 25% | 19% | 23% | 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 | 355.0120996743105 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -32.97325647742831 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 36.37886223888373 | | | |
| [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) | 241746256.934379 | 241746255.90938 | | | |
| Observation start date | 2005-08-29T23:44:17 | 2005-08-29T23:44:15 | | | |
| [s] Observation end time (MET) | 241769792.985459 | 241769791.96046 | | | |
| Observation end date | 2005-08-30T06:16:33 | 2005-08-30T06:16:31 | | | |
| 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) | 2013.01.24 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2780027795136 |

A.2 Comments