

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 58759 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 10 2012

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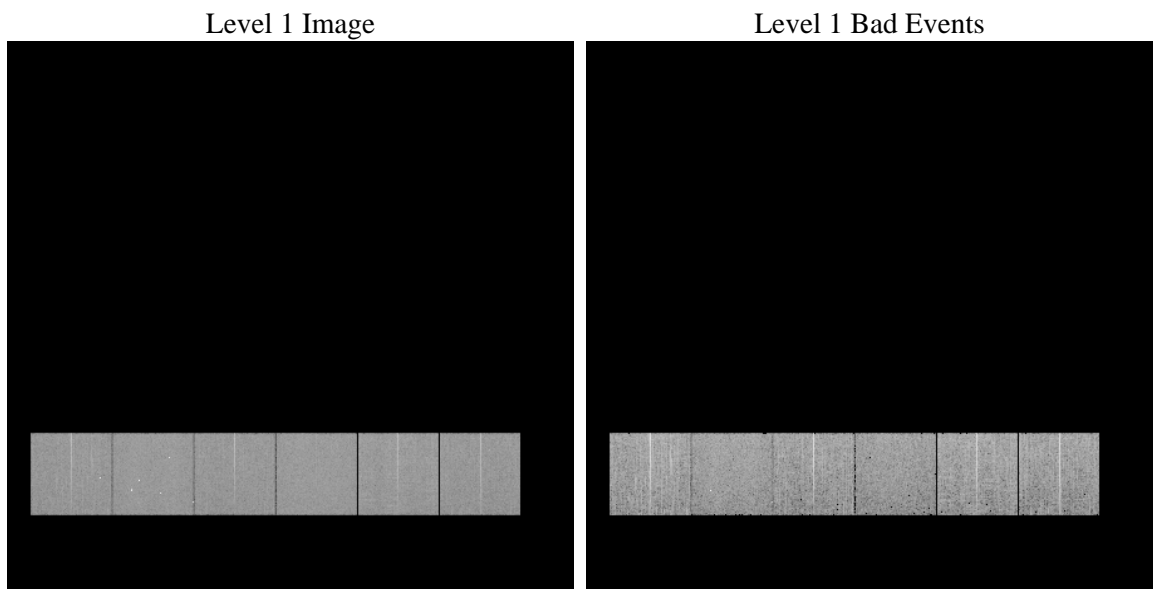
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58759 | 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 | 37.283909778261 | Nominal RA [deg] |
| dec_nom | 5.0237162743072 | Nominal Dec [deg] |
| roll_nom | 91.17217369872 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 5311.9999802709 | Sum of GTIs [s] |
| livetime | 5244.7362380183 | Livetime [s] |
| ontime4 | 5311.9999802709 | Sum of GTIs [s] |
| ontime5 | 5311.9999802709 | Sum of GTIs [s] |
| ontime6 | 5311.9999802709 | Sum of GTIs [s] |
| ontime7 | 5311.9999802709 | Sum of GTIs [s] |
| ontime8 | 5311.9999802709 | Sum of GTIs [s] |
| ontime9 | 5311.9999802709 | Sum of GTIs [s] |
| l2events | 547051 | Number of level 2 events |

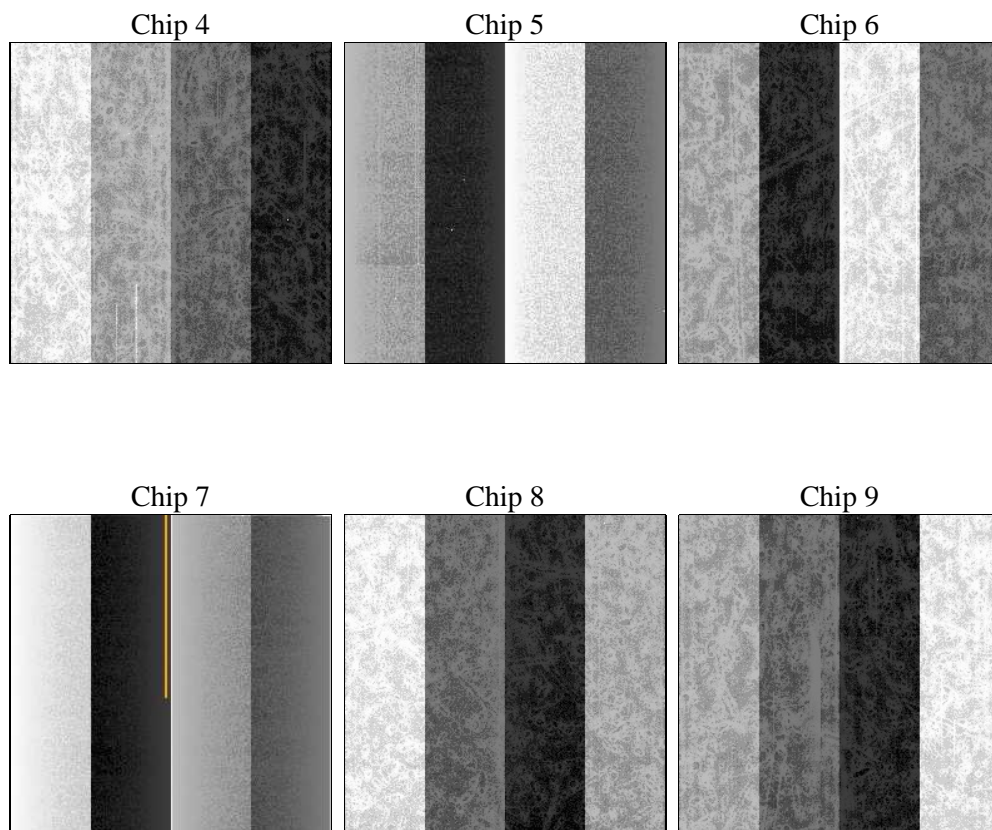
2 OBI

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 | 8.4.3.1 | Processing system revision | ontime | 5311.9999802709 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 5311.9999802709 | Sum of GTIs [s] |
| date | 2012-04-11T01:00:14 | Date and time of file creation | ontime5 | 5311.9999802709 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 5311.9999802709 | Sum of GTIs [s] |
| | | | ontime7 | 5311.9999802709 | Sum of GTIs [s] |
| | | | ontime8 | 5311.9999802709 | Sum of GTIs [s] |
| | | | ontime9 | 5311.9999802709 | Sum of GTIs [s] |
| | | | l1events | 871622 | 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 | 141431 | 150197 | 139948 | 149530 | 152312 | 138204 | grade 0 events | 52388 | 18646 | 49969 | 23924 | 53353 | 49813 |
| rejected events | 53441 | 44445 | 46240 | 39326 | 51273 | 47460 | | 37% | 12% | 35% | 15% | 35% | 36% |
| rejected % | 37% | 29% | 33% | 26% | 33% | 34% | grade 1 events | 486 | 155 | 275 | 97 | 328 | 337 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 12801 | 40167 | 16710 | 24291 | 17862 | 15205 |
| | | | | | | | | 9% | 26% | 11% | 16% | 11% | 11% |
| | | | | | | | grade 3 events | 6011 | 4665 | 5879 | 10367 | 6842 | 5941 |
| | | | | | | | | 4% | 3% | 4% | 6% | 4% | 4% |
| | | | | | | | grade 4 events | 5719 | 4429 | 5708 | 10115 | 6920 | 6006 |
| | | | | | | | | 4% | 2% | 4% | 6% | 4% | 4% |
| | | | | | | | grade 5 events | 2480 | 5928 | 2539 | 6456 | 3249 | 2911 |
| | | | | | | | | 1% | 3% | 1% | 4% | 2% | 2% |
| | | | | | | | grade 6 events | 11124 | 37902 | 15497 | 41562 | 16117 | 13822 |
| | | | | | | | | 7% | 25% | 11% | 27% | 10% | 10% |
| | | | | | | | grade 7 events | 50422 | 38305 | 43371 | 32718 | 47641 | 44169 |
| | | | | | | | | 35% | 25% | 30% | 21% | 31% | 31% |

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 | 37.28390977826096 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 5.023716274307212 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 91.17217369872043 | | | |
| [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) | 276241676.188791 | 276241675.16379 | | | |
| Observation start date | 2006-10-03T05:47:56 | 2006-10-03T05:47:55 | | | |
| [s] Observation end time (MET) | 276261374.639718 | 276261373.61472 | | | |
| Observation end date | 2006-10-03T11:16:15 | 2006-10-03T11:16:13 | | | |
| 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) | 2012.04.11 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.3119999802709 |

A.2 Comments