

V&V Reference Report

L2 ASCDS Version : 8.5.1

Observation 59813 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 17 2012

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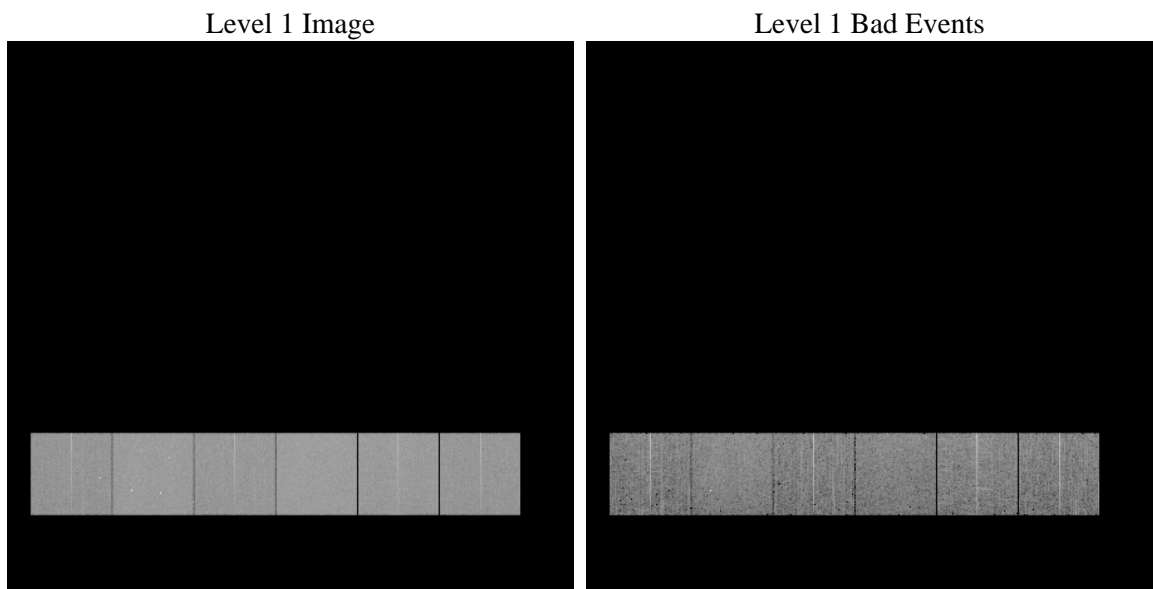
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 59813 | 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 | 140.46921487983 | Nominal RA [deg] |
| dec_nom | 33.487333912803 | Nominal Dec [deg] |
| roll_nom | 173.42167330812 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 6687.9999750853 | Sum of GTIs [s] |
| livetime | 6603.3124923706 | Livetime [s] |
| ontime4 | 5291.7949074805 | Sum of GTIs [s] |
| ontime5 | 6687.9999750853 | Sum of GTIs [s] |
| ontime6 | 5670.9481116533 | Sum of GTIs [s] |
| ontime7 | 6687.9999750853 | Sum of GTIs [s] |
| ontime8 | 5861.5513094664 | Sum of GTIs [s] |
| ontime9 | 5508.7766454518 | Sum of GTIs [s] |
| l2events | 895246 | Number of level 2 events |

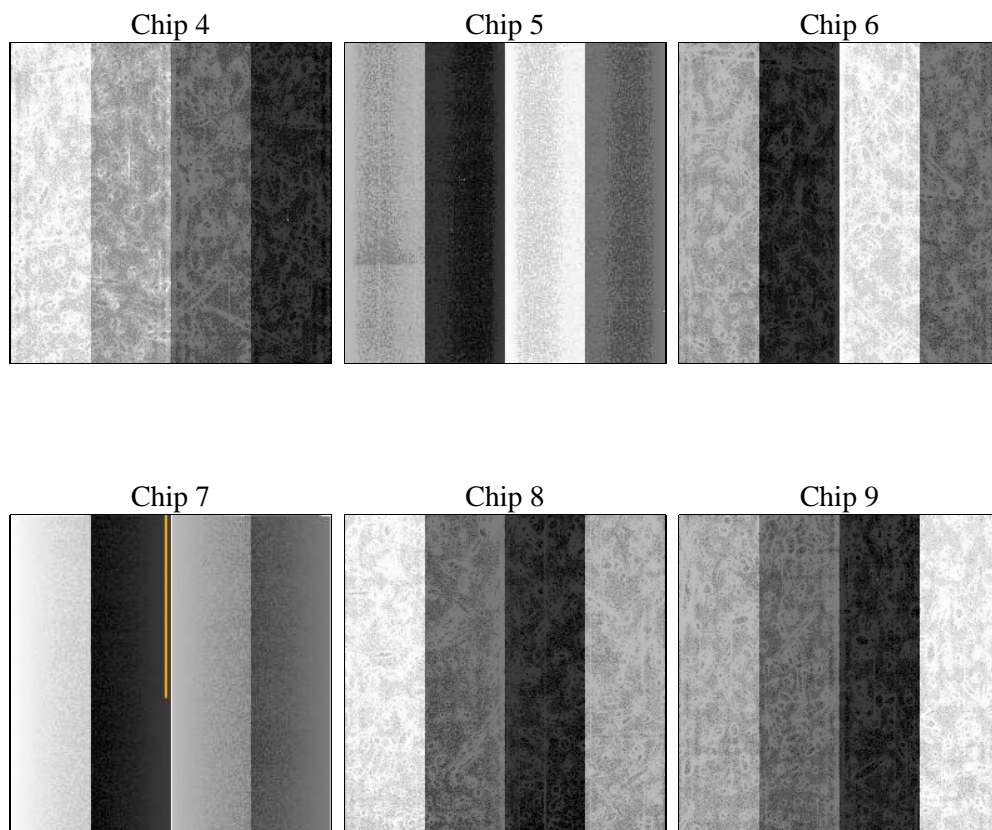
2 OBI

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 | Processing system revision | ontime | 6687.9999750853 | Sum of GTIs [s] |
| caldsver | 4.5.5 | | ontime4 | 5291.7949074805 | Sum of GTIs [s] |
| date | 2012-12-17T07:15:20 | Date and time of file creation | ontime5 | 6687.9999750853 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 5670.9481116533 | Sum of GTIs [s] |
| | | | ontime7 | 6687.9999750853 | Sum of GTIs [s] |
| | | | ontime8 | 5861.5513094664 | Sum of GTIs [s] |
| | | | ontime9 | 5508.7766454518 | Sum of GTIs [s] |
| | | | l1events | 1231317 | 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 | 176391 | 223342 | 197426 | 235304 | 212541 | 186313 | grade 0 events | 78400 | 36477 | 84104 | 46380 | 89107 | 79263 |
| rejected events | 43711 | 51755 | 45238 | 44023 | 50207 | 44424 | | 44% | 16% | 42% | 19% | 41% | 42% |
| rejected % | 24% | 23% | 22% | 18% | 23% | 23% | grade 1 events | 603 | 172 | 427 | 150 | 527 | 486 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 21250 | 64128 | 26655 | 42774 | 29292 | 24867 |
| | | | | | | | | 12% | 28% | 13% | 18% | 13% | 13% |
| | | | | | | | grade 3 events | 8971 | 9643 | 9641 | 19358 | 10771 | 9222 |
| | | | | | | | | 5% | 4% | 4% | 8% | 5% | 4% |
| | | | | | | | grade 4 events | 8785 | 9856 | 9770 | 19238 | 10709 | 9144 |
| | | | | | | | | 4% | 4% | 4% | 8% | 5% | 4% |
| | | | | | | | grade 5 events | 2400 | 7907 | 2831 | 7295 | 3214 | 2762 |
| | | | | | | | | 1% | 3% | 1% | 3% | 1% | 1% |
| | | | | | | | grade 6 events | 17302 | 54435 | 24568 | 66743 | 25278 | 21744 |
| | | | | | | | | 9% | 24% | 12% | 28% | 11% | 11% |
| | | | | | | | grade 7 events | 38680 | 40724 | 39430 | 33366 | 43643 | 38825 |
| | | | | | | | | 21% | 18% | 19% | 14% | 20% | 20% |

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 | 140.4692148798349 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 33.48733391280346 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 173.4216733081192 | | | |
| [mm] SIM focus pos | -0.684267 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | -190.132523 | 250.4635187648994 | | | |
| [mm] SIM translation stage offset | 0 | -0.007540371344731511 | | | |
| [s] Observation start time (MET) | 223925105.922421 | 223925104.8974 | | | |
| Observation start date | 2005-02-04T17:25:06 | 2005-02-04T17:25:04 | | | |
| [s] Observation end time (MET) | 223946696.5234 | 223946695.49838 | | | |
| Observation end date | 2005-02-04T23:24:57 | 2005-02-04T23:24:55 | | | |
| 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) | 2013.01.09 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.6879999750853 |

A.2 Comments