

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 58678 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Apr 14 2012

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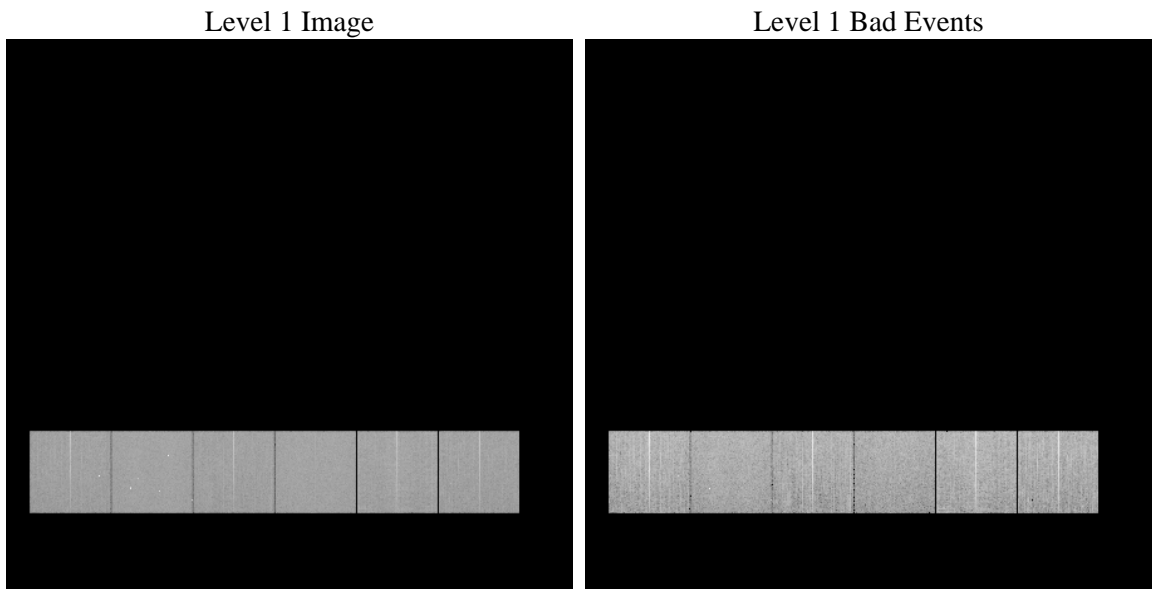
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58678 | 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 | 35.871998064181 | Nominal RA [deg] |
| dec_nom | 10.167656183772 | Nominal Dec [deg] |
| roll_nom | 284.69476402185 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8086.2242885232 | Sum of GTIs [s] |
| livetime | 7983.8316476422 | Livetime [s] |
| ontime4 | 8082.8601882458 | Sum of GTIs [s] |
| ontime5 | 8086.1832485199 | Sum of GTIs [s] |
| ontime6 | 8086.1422085166 | Sum of GTIs [s] |
| ontime7 | 8086.2242885232 | Sum of GTIs [s] |
| ontime8 | 8086.06012851 | Sum of GTIs [s] |
| ontime9 | 8086.2653285265 | Sum of GTIs [s] |
| l2events | 819665 | Number of level 2 events |

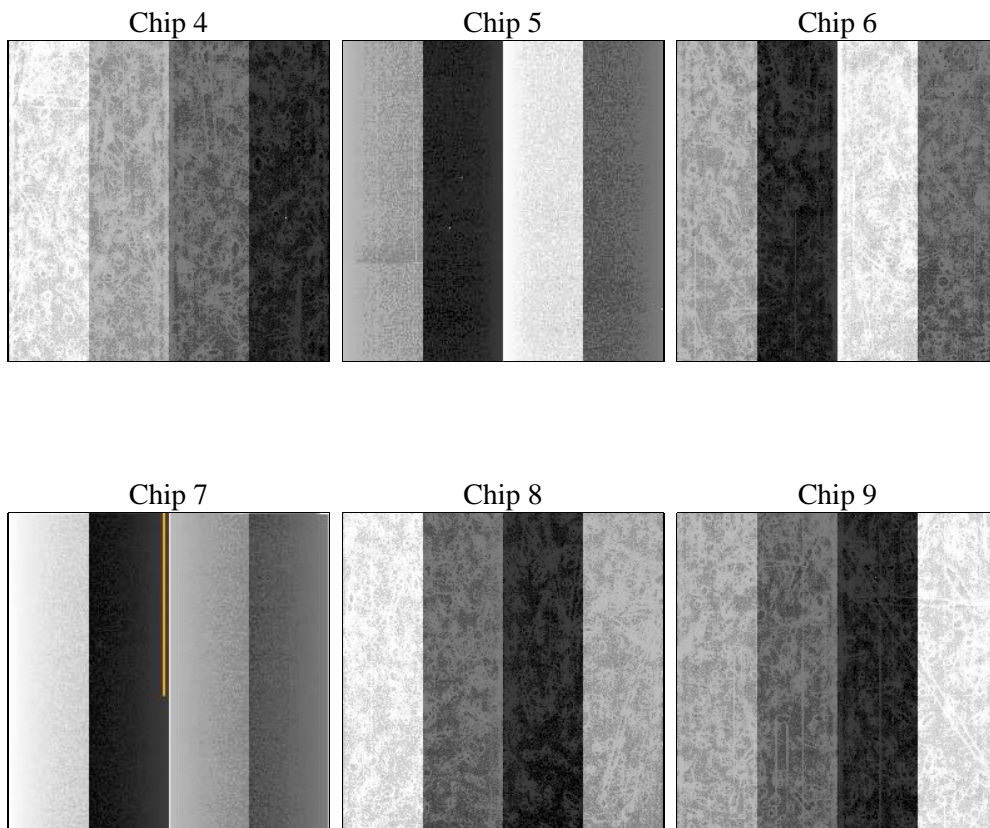
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 0 | Obi number | sched_exp_time | 900 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3.1 | Processing system revision | ontime | 8086.2242885232 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 8082.8601882458 | Sum of GTIs [s] |
| date | 2012-04-14T06:13:50 | Date and time of file creation | ontime5 | 8086.1832485199 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 8086.1422085166 | Sum of GTIs [s] |
| | | | ontime7 | 8086.2242885232 | Sum of GTIs [s] |
| | | | ontime8 | 8086.06012851 | Sum of GTIs [s] |
| | | | ontime9 | 8086.2653285265 | Sum of GTIs [s] |
| | | | l1events | 1337718 | 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 | 212703 | 228546 | 215433 | 230977 | 234440 | 215619 | grade 0 events | 77926 | 29589 | 76825 | 36542 | 80416 | 75663 |
| rejected events | 80383 | 71024 | 75083 | 64969 | 83944 | 79478 | | 36% | 12% | 35% | 15% | 34% | 35% |
| rejected % | 37% | 31% | 34% | 28% | 35% | 36% | grade 1 events | 729 | 241 | 463 | 182 | 565 | 554 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 21470 | 57919 | 24957 | 37134 | 27506 | 24076 |
| | | | | | | | | 10% | 25% | 11% | 16% | 11% | 11% |
| | | | | | | | grade 3 events | 9257 | 8510 | 9114 | 16631 | 10565 | 9126 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 9132 | 8085 | 9065 | 16329 | 10212 | 8947 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 5 events | 4072 | 9894 | 4219 | 10504 | 5288 | 4586 |
| | | | | | | | | 1% | 4% | 1% | 4% | 2% | 2% |
| | | | | | | | grade 6 events | 17291 | 56617 | 23442 | 62751 | 24842 | 21130 |
| | | | | | | | | 8% | 24% | 10% | 27% | 10% | 9% |
| | | | | | | | grade 7 events | 72826 | 57691 | 67348 | 50904 | 75046 | 71537 |
| | | | | | | | | 34% | 25% | 31% | 22% | 32% | 33% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-456789 | ACIS-456789 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 35.8719869124935 | 35.87199806418129 |
| [deg] Pointing Dec | 10.16767886194212 | 10.16765618377166 |
| [deg] Pointing Roll | 284.6947652924108 | 284.6947640218481 |
| [mm] SIM focus pos | -0.78090834371673 | -0.78090834371673 |
| [mm] SIM defocus | 0.7524282194390134 | 0.7524282194390134 |
| [mm] SIM translation stage pos | 250.4660330802 | 250.4660330802 |
| [mm] SIM translation stage offset | -0.01005726120527584 | -0.01005726120527584 |
| [s] Observation start time (MET) | 280823164.004949 | 280823164.004949 |
| Observation start date | 2006-11-25T06:28:00 | 2006-11-25T06:26:04 |
| [s] Observation end time (MET) | 280833171.017812 | 280833171.017812 |
| Observation end date | 2006-11-25T06:43:00 | 2006-11-25T09:12:51 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|----------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | OVERRIDE | OVERRIDE |
| Number of optional ACIS chips dropped | 0 | 0 |
| On-chip summing requested | N | N |
| Subarray requested | NONE | NONE |
| Alternating exposures requested | N | N |
| [s] Primary exposure time | 3.2 | 3.2 |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.04.17 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.0862242885232 |

A.2 Comments