

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 58904 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 4 2012

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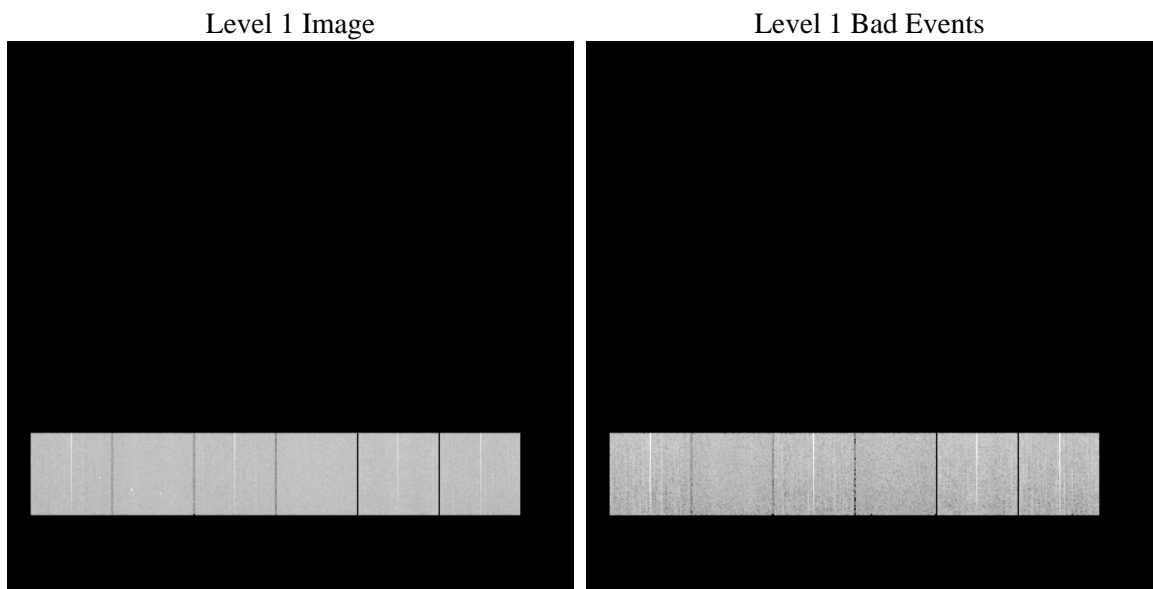
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58904 | 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 | 320.80122172764 | Nominal RA [deg] |
| dec_nom | -65.56823654746 | Nominal Dec [deg] |
| roll_nom | 53.285145525185 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8271.9999691844 | Sum of GTIs [s] |
| livetime | 8167.2549247742 | Livetime [s] |
| ontime4 | 8268.7589789033 | Sum of GTIs [s] |
| ontime5 | 8271.9999691844 | Sum of GTIs [s] |
| ontime6 | 8271.9999691844 | Sum of GTIs [s] |
| ontime7 | 8271.9999691844 | Sum of GTIs [s] |
| ontime8 | 8271.9999691844 | Sum of GTIs [s] |
| ontime9 | 8271.9999691844 | Sum of GTIs [s] |
| l2events | 906009 | Number of level 2 events |

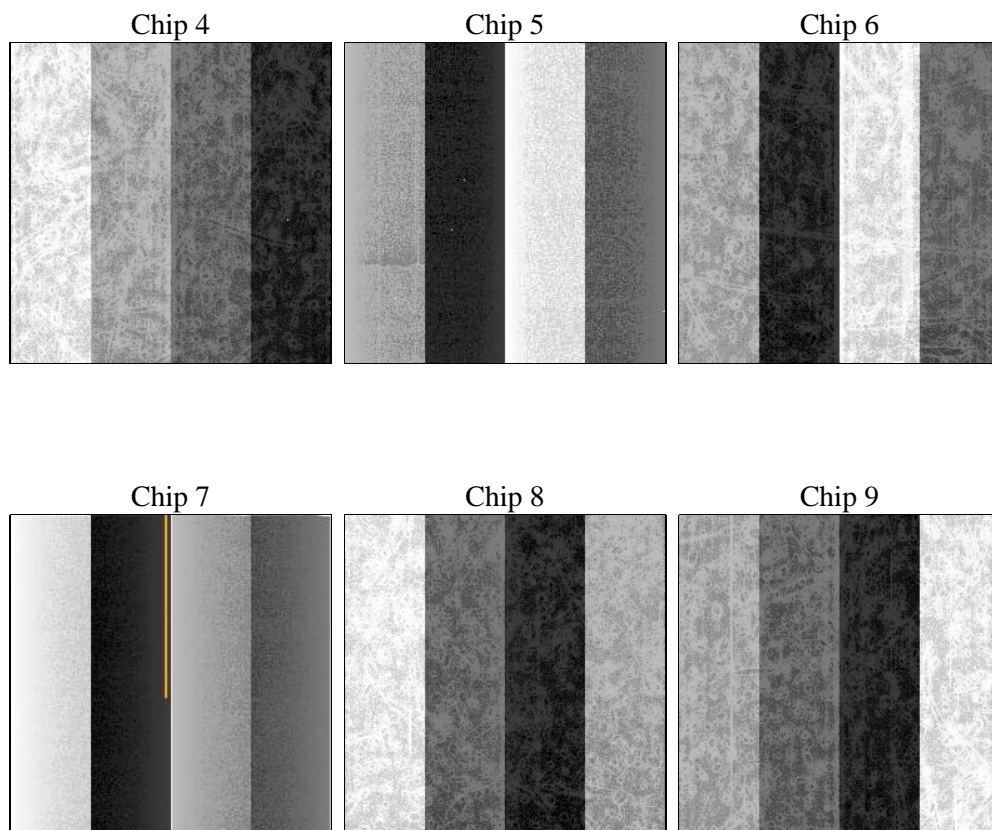
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.3.1 | Processing system revision | ontime | 8271.9999691844 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 8268.7589789033 | Sum of GTIs [s] |
| date | 2012-04-04T06:57:38 | Date and time of file creation | ontime5 | 8271.9999691844 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 8271.9999691844 | Sum of GTIs [s] |
| | | | ontime7 | 8271.9999691844 | Sum of GTIs [s] |
| | | | ontime8 | 8271.9999691844 | Sum of GTIs [s] |
| | | | ontime9 | 8271.9999691844 | Sum of GTIs [s] |
| | | | l1events | 1416767 | 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 | 225053 | 235577 | 232203 | 244710 | 249145 | 230079 | grade 0 events | 84039 | 26789 | 83700 | 39783 | 88475 | 83244 |
| rejected events | 80607 | 68186 | 75834 | 62311 | 82168 | 78642 | | 37% | 11% | 36% | 16% | 35% | 36% |
| rejected % | 35% | 28% | 32% | 25% | 32% | 34% | grade 1 events | 810 | 236 | 478 | 144 | 542 | 586 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 21880 | 64719 | 27656 | 40308 | 29359 | 25433 |
| | | | | | | | | 9% | 27% | 11% | 16% | 11% | 11% |
| | | | | | | | grade 3 events | 9951 | 7667 | 9763 | 17437 | 11220 | 9964 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 9915 | 7634 | 9668 | 17266 | 11536 | 9798 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 5 events | 4070 | 9102 | 4097 | 10231 | 5145 | 4715 |
| | | | | | | | | 1% | 3% | 1% | 4% | 2% | 2% |
| | | | | | | | grade 6 events | 18724 | 60635 | 25634 | 67666 | 26452 | 23050 |
| | | | | | | | | 8% | 25% | 11% | 27% | 10% | 10% |
| | | | | | | | grade 7 events | 75664 | 58795 | 71207 | 51875 | 76416 | 73289 |
| | | | | | | | | 33% | 24% | 30% | 21% | 30% | 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 | 320.8012217276353 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -65.56823654746036 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 53.28514552518453 | | | |
| [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) | 268018793.702764 | 268018792.67779 | | | |
| Observation start date | 2006-06-30T01:39:54 | 2006-06-30T01:39:52 | | | |
| [s] Observation end time (MET) | 268043502.35392 | 268043501.32895 | | | |
| Observation end date | 2006-06-30T08:31:42 | 2006-06-30T08:31:41 | | | |
| 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) | 2012.04.05 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2719999691844 |

A.2 Comments