

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 56430 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 21 2012

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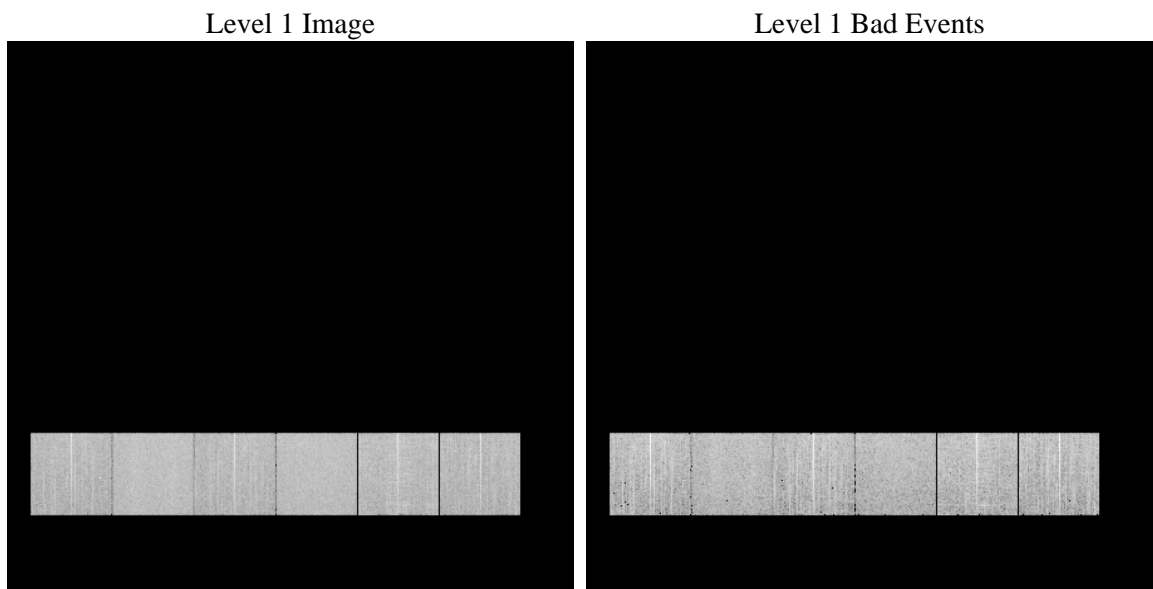
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 56430 | 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 | 168.96645164093 | Nominal RA [deg] |
| dec_nom | 30.998098685935 | Nominal Dec [deg] |
| roll_nom | 151.13246014619 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 5086.6102002263 | Sum of GTIs [s] |
| livetime | 5022.2004790821 | Livetime [s] |
| ontime4 | 5086.4870802164 | Sum of GTIs [s] |
| ontime5 | 5086.569160223 | Sum of GTIs [s] |
| ontime6 | 5086.5281202197 | Sum of GTIs [s] |
| ontime7 | 5086.6102002263 | Sum of GTIs [s] |
| ontime8 | 5086.4460402131 | Sum of GTIs [s] |
| ontime9 | 5086.6512402296 | Sum of GTIs [s] |
| l2events | 272953 | Number of level 2 events |

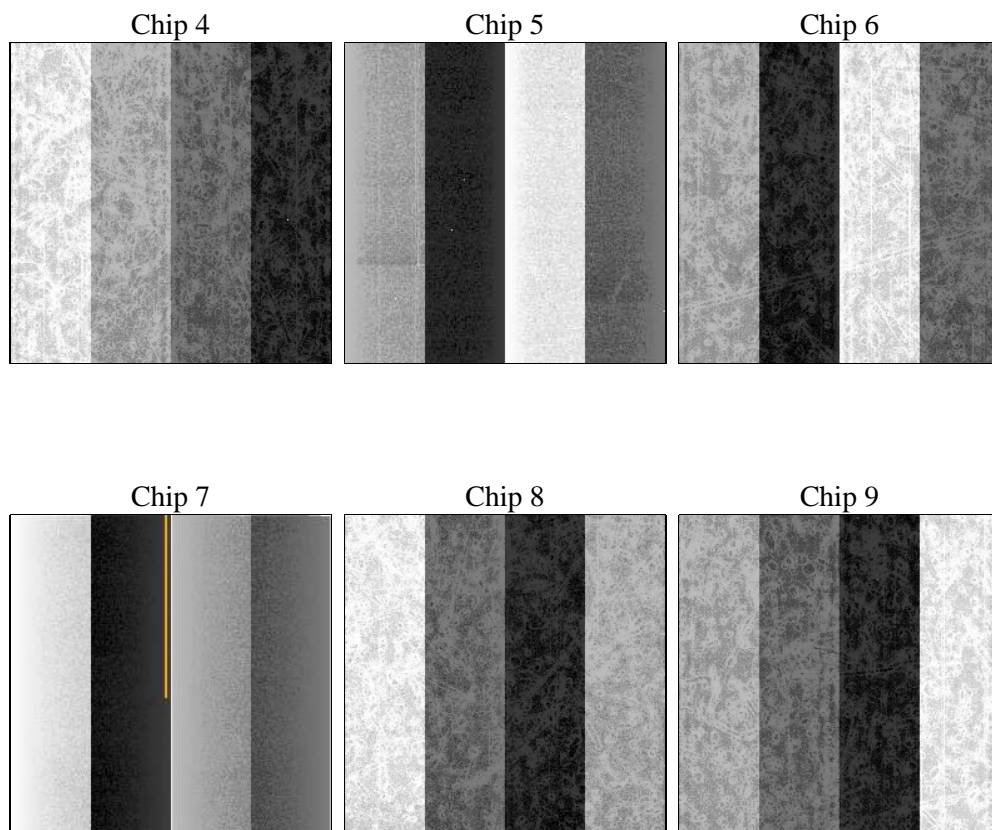
2 OBI

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 | 8.4.5 | Processing system revision | ontime | 5086.6102002263 | Sum of GTIs [s] |
| caldsver | 4.4.10 | | ontime4 | 5086.4870802164 | Sum of GTIs [s] |
| date | 2012-06-21T19:06:06 | Date and time of file creation | ontime5 | 5086.569160223 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 5086.5281202197 | Sum of GTIs [s] |
| | | | ontime7 | 5086.6102002263 | Sum of GTIs [s] |
| | | | ontime8 | 5086.4460402131 | Sum of GTIs [s] |
| | | | ontime9 | 5086.6512402296 | Sum of GTIs [s] |
| | | | l1events | 599377 | 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 | 90709 | 110780 | 93759 | 108385 | 103792 | 91952 | grade 0 events | 22898 | 6426 | 21694 | 10853 | 24892 | 21972 |
| rejected events | 51860 | 48130 | 51946 | 45490 | 53403 | 51425 | | 25% | 5% | 23% | 10% | 23% | 23% |
| rejected % | 57% | 43% | 55% | 41% | 51% | 55% | grade 1 events | 267 | 125 | 107 | 99 | 185 | 141 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 5810 | 24042 | 8196 | 14164 | 9819 | 7231 |
| | | | | | | | | 6% | 21% | 8% | 13% | 9% | 7% |
| | | | | | | | grade 3 events | 2874 | 2480 | 2705 | 5705 | 3675 | 2745 |
| | | | | | | | | 3% | 2% | 2% | 5% | 3% | 2% |
| | | | | | | | grade 4 events | 2903 | 2285 | 2730 | 5553 | 3719 | 2760 |
| | | | | | | | | 3% | 2% | 2% | 5% | 3% | 3% |
| | | | | | | | grade 5 events | 2472 | 5568 | 2649 | 6661 | 3591 | 2948 |
| | | | | | | | | 2% | 5% | 2% | 6% | 3% | 3% |
| | | | | | | | grade 6 events | 5070 | 28548 | 7261 | 27765 | 9275 | 6607 |
| | | | | | | | | 5% | 25% | 7% | 25% | 8% | 7% |
| | | | | | | | grade 7 events | 48415 | 41306 | 48417 | 37585 | 48636 | 47548 |
| | | | | | | | | 53% | 37% | 51% | 34% | 46% | 51% |

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 | 0 | 168.9664516409324 |
| [deg] Pointing Dec | 0 | 30.99809868593499 |
| [deg] Pointing Roll | 0.0 | 151.132460146189 |
| [mm] SIM focus pos | -1.429586 | -0.6828225247311905 |
| [mm] SIM defocus | 0.1037507710433287 | 0.8505141146731063 |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 383400317.98765 | 383400316.96266 |
| Observation start date | 2010-02-24T12:05:18 | 2010-02-24T12:05:16 |
| [s] Observation end time (MET) | 383410178.48815 | 383410177.46316 |
| Observation end date | 2010-02-24T14:49:38 | 2010-02-24T14:49:37 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| 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 | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.06.27 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.0866102002263 |

A.2 Comments