

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60783 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 26 2012

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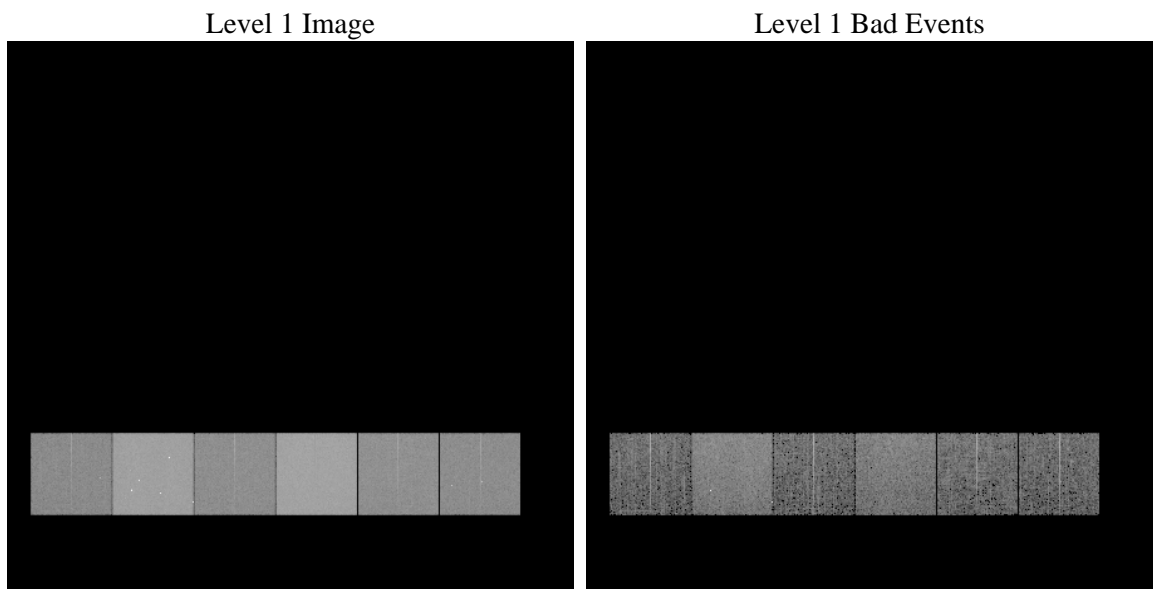
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 60783 | 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 | 225.70893468148 | Nominal RA [deg] |
| dec_nom | -41.672224776557 | Nominal Dec [deg] |
| roll_nom | 43.457400522532 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 7791.9999709725 | Sum of GTIs [s] |
| livetime | 7693.332975561 | Livetime [s] |
| ontime4 | 3371.2923122346 | Sum of GTIs [s] |
| ontime5 | 7791.9999709725 | Sum of GTIs [s] |
| ontime6 | 3675.9474537671 | Sum of GTIs [s] |
| ontime7 | 7791.9999709725 | Sum of GTIs [s] |
| ontime8 | 3847.7212392092 | Sum of GTIs [s] |
| ontime9 | 3585.1991998851 | Sum of GTIs [s] |
| l2events | 1162739 | Number of level 2 events |

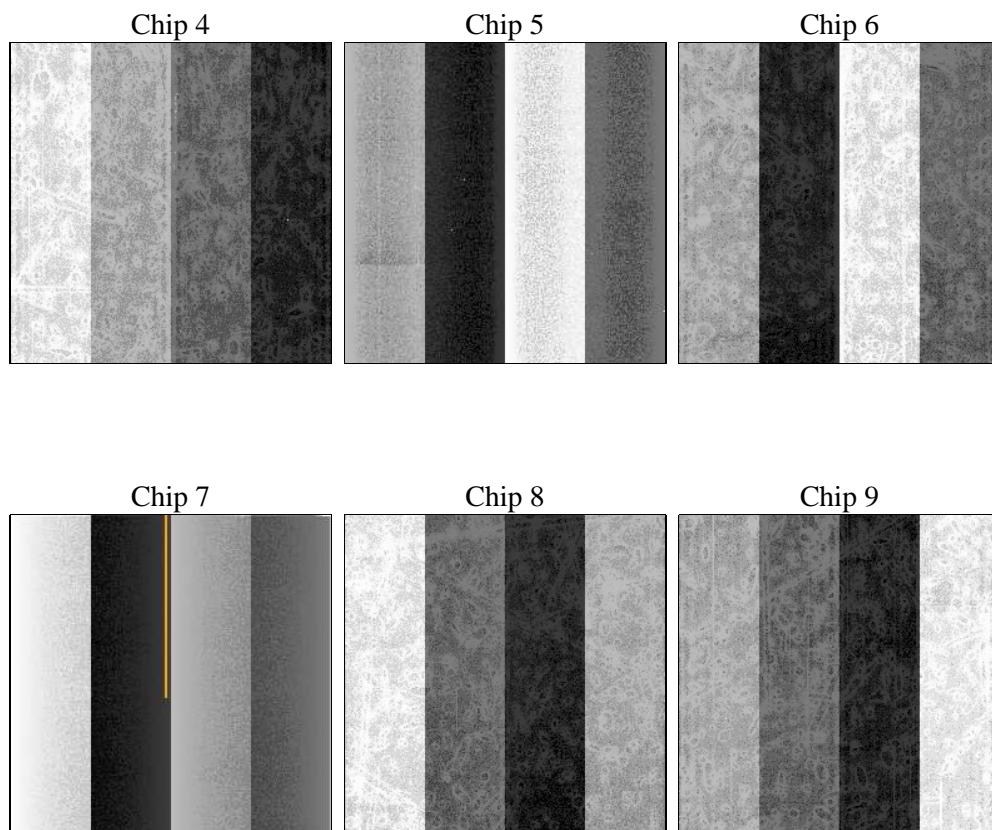
2 OBI

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 | 7791.9999709725 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime4 | 3371.2923122346 | Sum of GTIs [s] |
| date | 2012-10-26T14:35:03 | Date and time of file creation | ontime5 | 7791.9999709725 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 3675.9474537671 | Sum of GTIs [s] |
| | | | ontime7 | 7791.9999709725 | Sum of GTIs [s] |
| | | | ontime8 | 3847.7212392092 | Sum of GTIs [s] |
| | | | ontime9 | 3585.1991998851 | Sum of GTIs [s] |
| | | | l1events | 1422423 | 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 | 156958 | 350234 | 180439 | 371958 | 191858 | 170976 | grade 0 events | 76947 | 68720 | 84383 | 82696 | 90469 | 81565 |
| rejected events | 25543 | 52994 | 25714 | 40450 | 28315 | 24251 | | 49% | 19% | 46% | 22% | 47% | 47% |
| rejected % | 16% | 15% | 14% | 10% | 14% | 14% | grade 1 events | 610 | 747 | 414 | 222 | 489 | 491 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 20350 | 110139 | 26479 | 73573 | 28161 | 24949 |
| | | | | | | | | 12% | 31% | 14% | 19% | 14% | 14% |
| | | | | | | | grade 3 events | 8918 | 16881 | 9602 | 33643 | 10373 | 9215 |
| | | | | | | | | 5% | 4% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 4 events | 8685 | 16848 | 9468 | 33038 | 10458 | 9304 |
| | | | | | | | | 5% | 4% | 5% | 8% | 5% | 5% |
| | | | | | | | grade 5 events | 1574 | 9444 | 1728 | 7728 | 2123 | 1821 |
| | | | | | | | | 1% | 2% | 0% | 2% | 1% | 1% |
| | | | | | | | grade 6 events | 16642 | 84652 | 24946 | 108558 | 24205 | 21692 |
| | | | | | | | | 10% | 24% | 13% | 29% | 12% | 12% |
| | | | | | | | grade 7 events | 23232 | 42803 | 23419 | 32500 | 25580 | 21939 |
| | | | | | | | | 14% | 12% | 12% | 8% | 13% | 12% |

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 | 225.7089346814762 |
| [deg] Pointing Dec | 0 | -41.67222477655682 |
| [deg] Pointing Roll | 0.0 | 43.4574005225315 |
| [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) | 166318024.701299 | 166318023.67658 |
| Observation start date | 2003-04-09T23:27:05 | 2003-04-09T23:27:03 |
| [s] Observation end time (MET) | 166328754.401752 | 166328753.37703 |
| Observation end date | 2003-04-10T02:25:54 | 2003-04-10T02:25:53 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| On-chip summing requested | N | N |
| Subarray requested | NONE | NONE |
| Alternating exposures requested | N | N |
| [s] Primary exposure time | 0.000000 | 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) | 2012.11.19 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.7919999709725 |

A.2 Comments