

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 61358 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 30 2012

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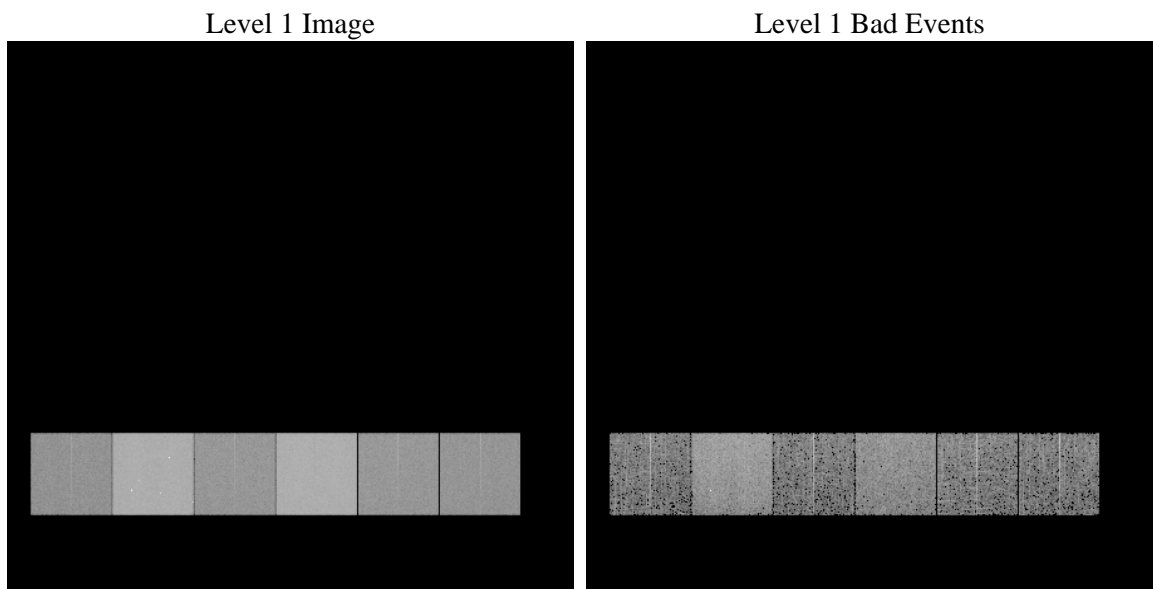
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 61358 | 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 | 352.02309215269 | Nominal RA [deg] |
| dec_nom | -11.517548609061 | Nominal Dec [deg] |
| roll_nom | 289.44146860528 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 6240.9088619798 | Sum of GTIs [s] |
| livetime | 6161.8827161453 | Livetime [s] |
| ontime4 | 2375.6796621233 | Sum of GTIs [s] |
| ontime5 | 6708.8756002337 | Sum of GTIs [s] |
| ontime6 | 2644.6854532361 | Sum of GTIs [s] |
| ontime7 | 6240.9088619798 | Sum of GTIs [s] |
| ontime8 | 2657.6496530324 | Sum of GTIs [s] |
| ontime9 | 2511.8031324744 | Sum of GTIs [s] |
| l2events | 1214603 | Number of level 2 events |

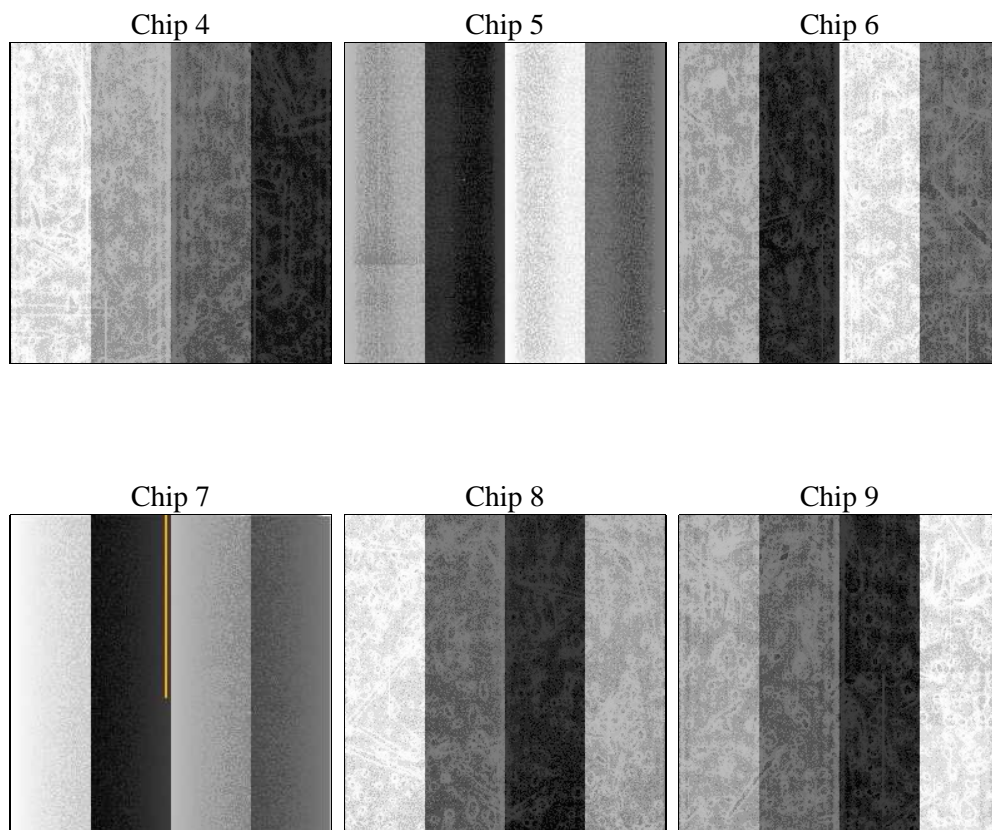
2 OBI

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 | 8.4.5 | Processing system revision | ontime | 6240.9088619798 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime4 | 2375.6796621233 | Sum of GTIs [s] |
| date | 2012-09-30T05:16:38 | Date and time of file creation | ontime5 | 6708.8756002337 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 2644.6854532361 | Sum of GTIs [s] |
| | | | ontime7 | 6240.9088619798 | Sum of GTIs [s] |
| | | | ontime8 | 2657.6496530324 | Sum of GTIs [s] |
| | | | ontime9 | 2511.8031324744 | Sum of GTIs [s] |
| | | | l1events | 1423091 | 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 | 145504 | 382179 | 172550 | 389103 | 175220 | 158535 | grade 0 events | 71760 | 84667 | 84349 | 91398 | 84827 | 76597 |
| rejected events | 18681 | 44901 | 18645 | 31389 | 21272 | 18865 | | 49% | 22% | 48% | 23% | 48% | 48% |
| rejected % | 12% | 11% | 10% | 8% | 12% | 11% | grade 1 events | 387 | 524 | 404 | 234 | 418 | 392 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 22420 | 118170 | 26695 | 79761 | 27187 | 24696 |
| | | | | | | | | 15% | 30% | 15% | 20% | 15% | 15% |
| | | | | | | | grade 3 events | 7778 | 21891 | 9488 | 36044 | 9711 | 8648 |
| | | | | | | | | 5% | 5% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 4 events | 7743 | 21613 | 9416 | 36299 | 9812 | 8655 |
| | | | | | | | | 5% | 5% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 5 events | 1183 | 8418 | 1495 | 6506 | 1599 | 1441 |
| | | | | | | | | 0% | 2% | 0% | 1% | 0% | 0% |
| | | | | | | | grade 6 events | 17122 | 90937 | 23957 | 114212 | 22411 | 21074 |
| | | | | | | | | 11% | 23% | 13% | 29% | 12% | 13% |
| | | | | | | | grade 7 events | 17111 | 35959 | 16746 | 24649 | 19255 | 17032 |
| | | | | | | | | 11% | 9% | 9% | 6% | 10% | 10% |

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 | 352.0230921526886 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -11.51754860906105 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 289.4414686052756 | | | |
| [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) | 126786111.865141 | 126786111.09667 | | | |
| Observation start date | 2002-01-07T10:21:52 | 2002-01-07T10:21:51 | | | |
| [s] Observation end time (MET) | 126798182.265627 | 126798181.49716 | | | |
| Observation end date | 2002-01-07T13:43:02 | 2002-01-07T13:43:01 | | | |
| 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) | 2012.10.02 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.2409088619798 |

A.2 Comments