

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60566 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 3 2012

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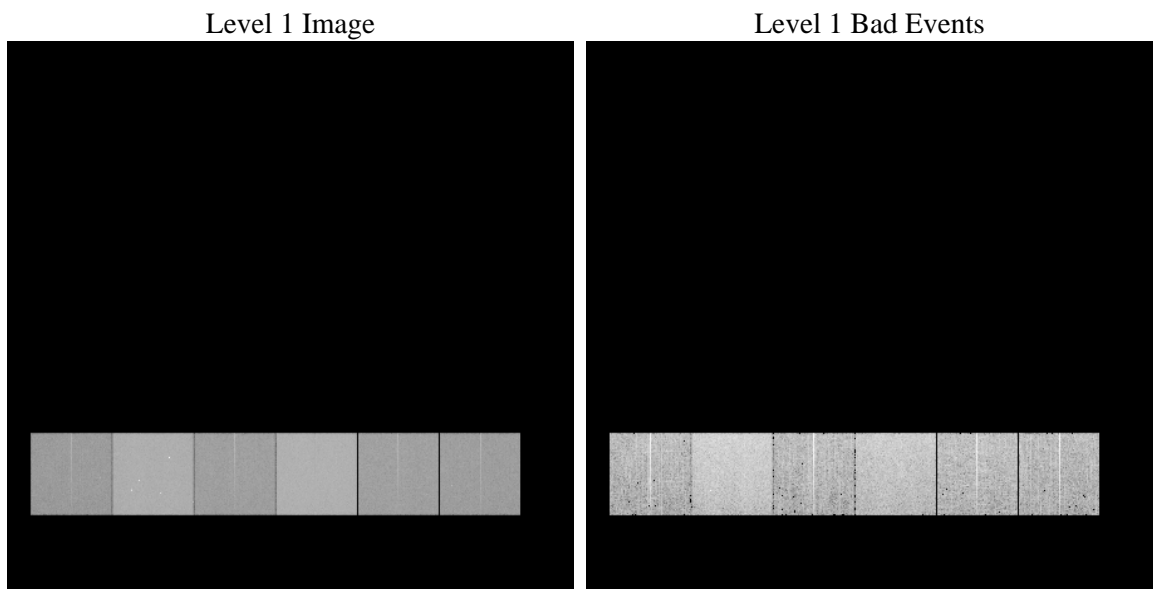
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 60566 | 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 | 33.979886101255 | Nominal RA [deg] |
| dec_nom | 3.2203553755958 | Nominal Dec [deg] |
| roll_nom | 101.71510035903 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 11160.476322621 | Sum of GTIs [s] |
| livetime | 11019.155651392 | Livetime [s] |
| ontime4 | 5388.1549382508 | Sum of GTIs [s] |
| ontime5 | 11160.435282618 | Sum of GTIs [s] |
| ontime6 | 5911.6369190514 | Sum of GTIs [s] |
| ontime7 | 11160.476322621 | Sum of GTIs [s] |
| ontime8 | 6076.9288339913 | Sum of GTIs [s] |
| ontime9 | 5785.2386787236 | Sum of GTIs [s] |
| l2events | 1644079 | Number of level 2 events |

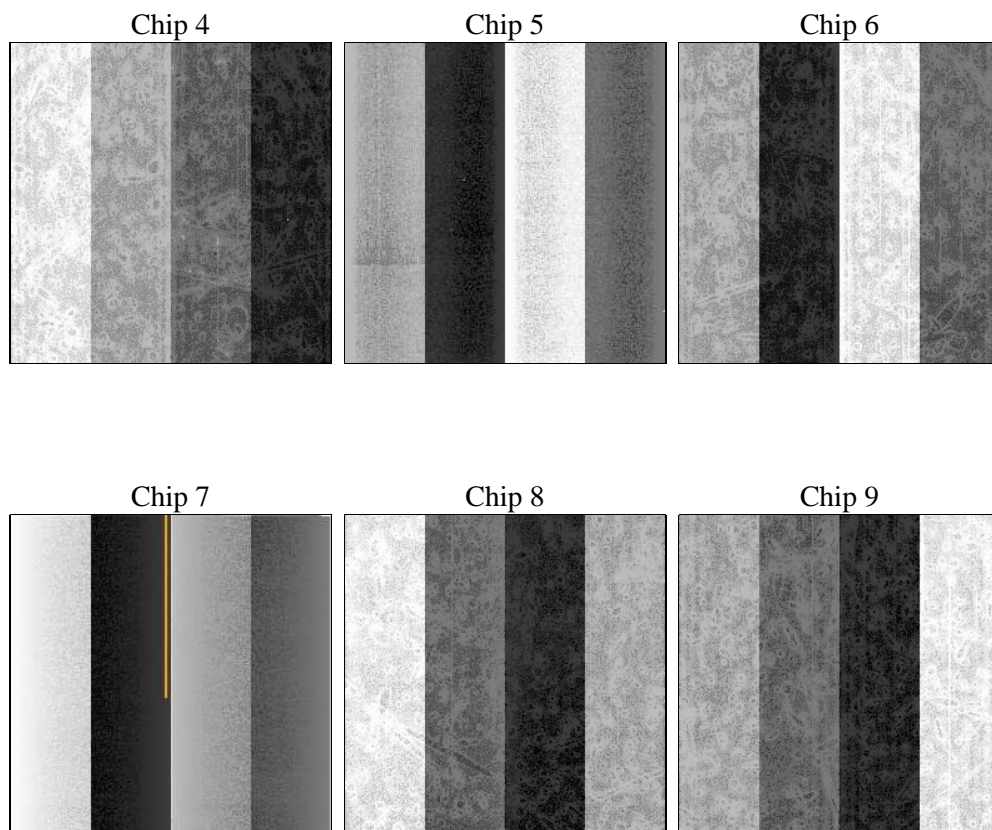
2 OBI

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 | 11160.476322621 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime4 | 5388.1549382508 | Sum of GTIs [s] |
| date | 2012-11-03T21:21:40 | Date and time of file creation | ontime5 | 11160.435282618 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 5911.6369190514 | Sum of GTIs [s] |
| | | | ontime7 | 11160.476322621 | Sum of GTIs [s] |
| | | | ontime8 | 6076.9288339913 | Sum of GTIs [s] |
| | | | ontime9 | 5785.2386787236 | Sum of GTIs [s] |
| | | | l1events | 2020388 | 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 | 236518 | 463637 | 274101 | 501399 | 285958 | 258775 | grade 0 events | 114197 | 93604 | 126397 | 111314 | 131781 | 120792 |
| rejected events | 39696 | 70332 | 40900 | 57772 | 44789 | 39632 | | 48% | 20% | 46% | 22% | 46% | 46% |
| rejected % | 16% | 15% | 14% | 11% | 15% | 15% | grade 1 events | 855 | 316 | 596 | 290 | 672 | 727 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 31224 | 140160 | 40444 | 96865 | 41976 | 37043 |
| | | | | | | | | 13% | 30% | 14% | 19% | 14% | 14% |
| | | | | | | | grade 3 events | 13097 | 24705 | 14470 | 44397 | 15721 | 13998 |
| | | | | | | | | 5% | 5% | 5% | 8% | 5% | 5% |
| | | | | | | | grade 4 events | 13003 | 24240 | 14460 | 43774 | 15445 | 13944 |
| | | | | | | | | 5% | 5% | 5% | 8% | 5% | 5% |
| | | | | | | | grade 5 events | 2551 | 12028 | 2839 | 10992 | 3226 | 2939 |
| | | | | | | | | 1% | 2% | 1% | 2% | 1% | 1% |
| | | | | | | | grade 6 events | 25420 | 110596 | 37430 | 147277 | 36246 | 33366 |
| | | | | | | | | 10% | 23% | 13% | 29% | 12% | 12% |
| | | | | | | | grade 7 events | 36171 | 57988 | 37465 | 46490 | 40891 | 35966 |
| | | | | | | | | 15% | 12% | 13% | 9% | 14% | 13% |

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 | 33.97988610125491 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 3.220355375595819 | [s] Primary exposure time | 0.000000 | 3.2 |
| [deg] Pointing Roll | 0.0 | 101.7151003590328 | | | |
| [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) | 179100806.394714 | 179100805.37001 | | | |
| Observation start date | 2003-09-04T22:13:26 | 2003-09-04T22:13:25 | | | |
| [s] Observation end time (MET) | 179123100.145668 | 179123099.12097 | | | |
| Observation end date | 2003-09-05T04:25:00 | 2003-09-05T04:24:59 | | | |
| 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) | 2012.12.06 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 11.160476322621 |

A.2 Comments