

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 61364 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 29 2012

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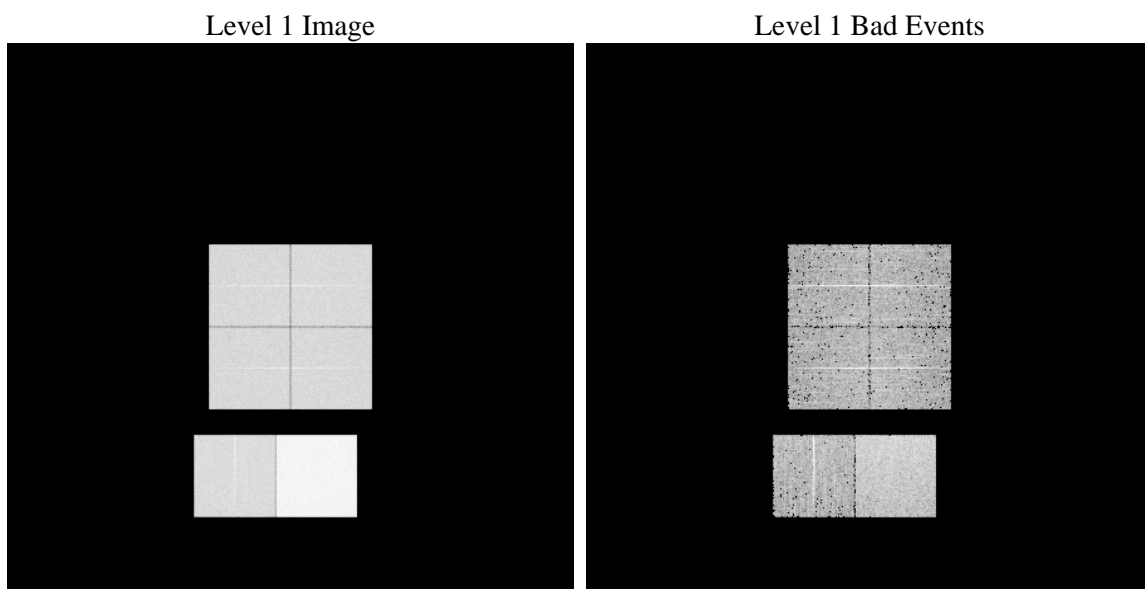
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 61364 | Observation id |
| title | ACIS-012367 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 | 130.01894821107 | Nominal RA [deg] |
| dec_nom | -43.974830217589 | Nominal Dec [deg] |
| roll_nom | 28.804620848589 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8277.1971574873 | Sum of GTIs [s] |
| livetime | 8172.3863031494 | Livetime [s] |
| ontime0 | 3159.653019622 | Sum of GTIs [s] |
| ontime1 | 3263.7229063213 | Sum of GTIs [s] |
| ontime2 | 3066.0200048387 | Sum of GTIs [s] |
| ontime3 | 3072.5028126985 | Sum of GTIs [s] |
| ontime6 | 3341.507138893 | Sum of GTIs [s] |
| ontime7 | 8277.1971574873 | Sum of GTIs [s] |
| l2events | 1315922 | Number of level 2 events |

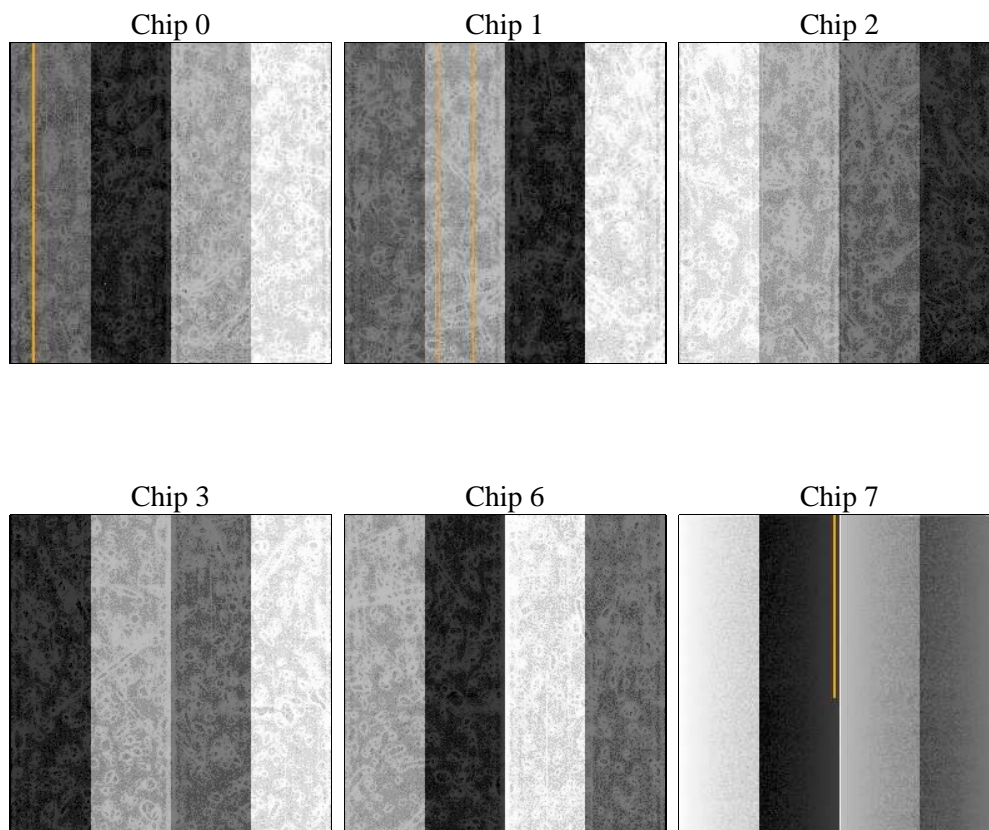
2 OBI

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 | 8277.1971574873 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 3159.653019622 | Sum of GTIs [s] |
| date | 2012-09-29T17:56:06 | Date and time of file creation | ontime1 | 3263.7229063213 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 3066.0200048387 | Sum of GTIs [s] |
| | | | ontime3 | 3072.5028126985 | Sum of GTIs [s] |
| | | | ontime6 | 3341.507138893 | Sum of GTIs [s] |
| | | | ontime7 | 8277.1971574873 | Sum of GTIs [s] |
| | | | l1events | 1540414 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|-------|-------|-------|-------|--------|--------|
| level 1 events | 198382 | 204097 | 195577 | 196785 | 220805 | 524768 | grade 0 events | 96132 | 99825 | 95496 | 96194 | 105674 | 121621 |
| rejected events | 23965 | 23561 | 24313 | 24755 | 27037 | 46404 | | 48% | 48% | 48% | 48% | 47% | 23% |
| rejected % | 12% | 11% | 12% | 12% | 12% | 8% | grade 1 events | 502 | 509 | 491 | 512 | 540 | 328 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 30728 | 31518 | 29798 | 30425 | 33518 | 105852 |
| | | | | | | | | 15% | 15% | 15% | 15% | 15% | 20% |
| | | | | | | | grade 3 events | 11132 | 11575 | 10940 | 10761 | 12074 | 48719 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 4 events | 11073 | 11443 | 10825 | 10993 | 11944 | 48110 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 5 events | 1689 | 1774 | 1611 | 1712 | 1869 | 9320 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 1% |
| | | | | | | | grade 6 events | 25703 | 26379 | 24577 | 24227 | 31112 | 155049 |
| | | | | | | | | 12% | 12% | 12% | 12% | 14% | 29% |
| | | | | | | | grade 7 events | 21423 | 21074 | 21839 | 21961 | 24074 | 35769 |
| | | | | | | | | 10% | 10% | 11% | 11% | 10% | 6% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012367 | ACIS-012367 | 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 | 130.0189482110721 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -43.97483021758857 | [s] Primary exposure time | 0.000000 | 3.2 |
| [deg] Pointing Roll | 0.0 | 28.80462084858874 | | | |
| [mm] SIM focus pos | -0.782348 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.8505141146731063 | | | |
| [mm] SIM translation stage pos | -233.592463 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 126138488.139 | 126138487.37065 | | | |
| Observation start date | 2001-12-30T22:28:08 | 2001-12-30T22:28:07 | | | |
| [s] Observation end time (MET) | 126159797.89 | 126159797.1215 | | | |
| Observation end date | 2001-12-31T04:23:18 | 2001-12-31T04:23:17 | | | |
| 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) | 2012.10.01 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2771971574873 |

A.2 Comments