

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 61004 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 15 2012

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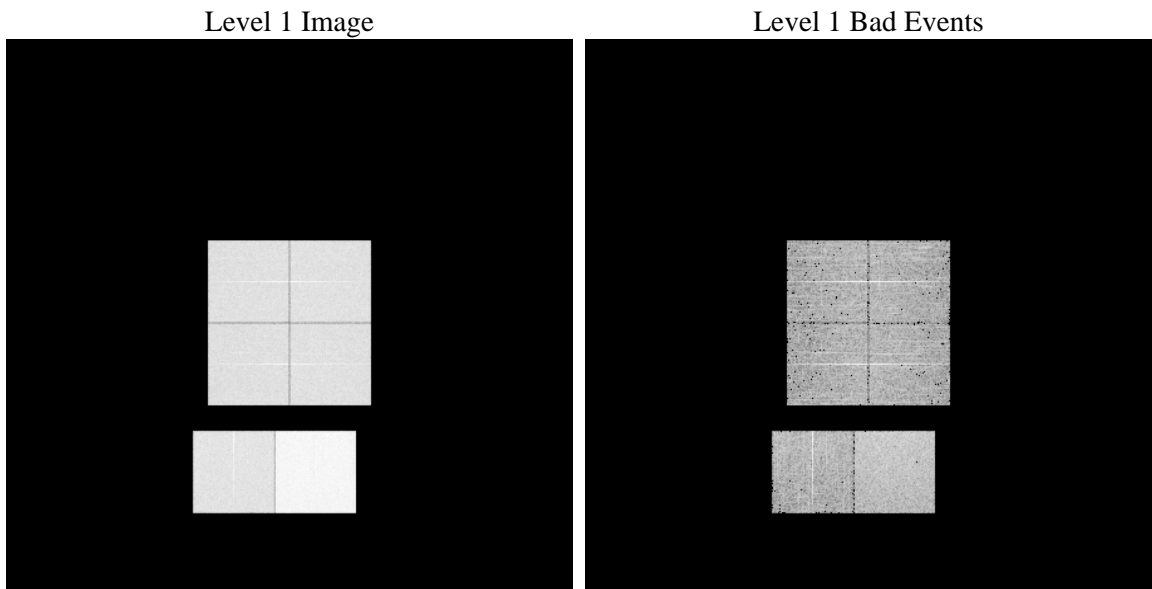
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 61004 | 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 | 124.99010466779 | Nominal RA [deg] |
| dec_nom | 25.027175081436 | Nominal Dec [deg] |
| roll_nom | 75.403022402855 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8402.8613744676 | Sum of GTIs [s] |
| livetime | 8296.4592841484 | Livetime [s] |
| ontime0 | 4027.5122360289 | Sum of GTIs [s] |
| ontime1 | 4129.0722126961 | Sum of GTIs [s] |
| ontime2 | 3884.8258416355 | Sum of GTIs [s] |
| ontime3 | 3969.2561841011 | Sum of GTIs [s] |
| ontime6 | 4263.9816567898 | Sum of GTIs [s] |
| ontime7 | 8402.8613744676 | Sum of GTIs [s] |
| l2events | 1291640 | Number of level 2 events |

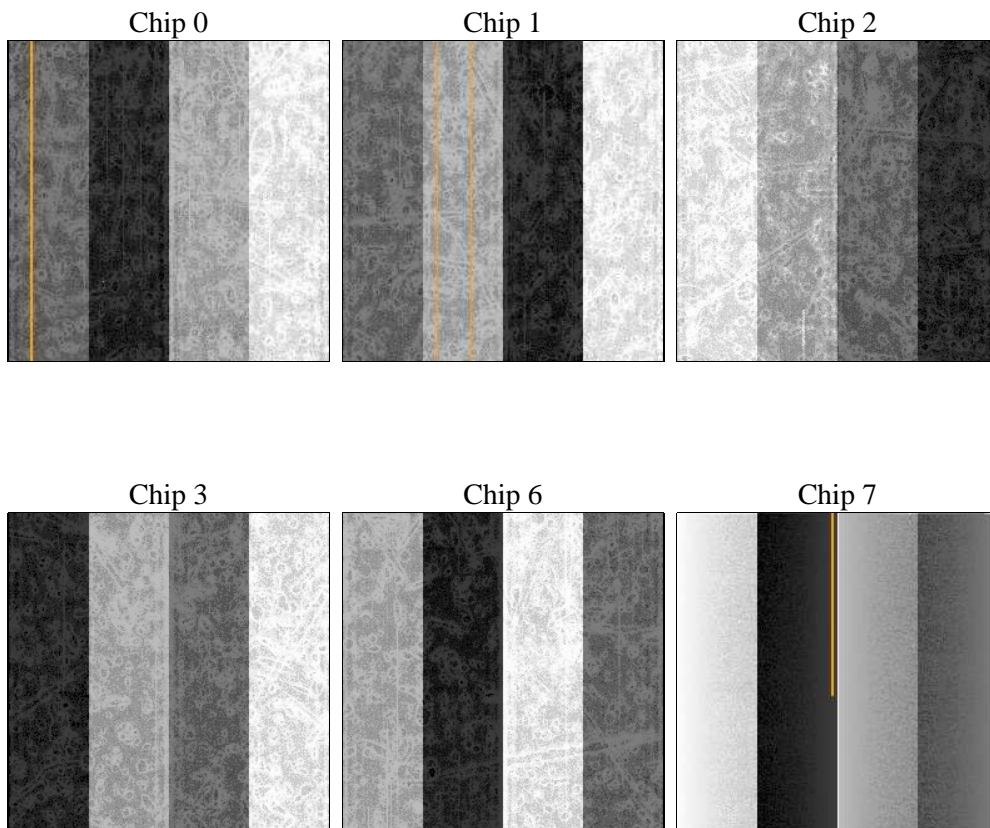
2 OBI

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 | 8402.8613744676 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime0 | 4027.5122360289 | Sum of GTIs [s] |
| date | 2012-10-15T13:39:39 | Date and time of file creation | ontime1 | 4129.0722126961 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 3884.8258416355 | Sum of GTIs [s] |
| | | | ontime3 | 3969.2561841011 | Sum of GTIs [s] |
| | | | ontime6 | 4263.9816567898 | Sum of GTIs [s] |
| | | | ontime7 | 8402.8613744676 | Sum of GTIs [s] |
| | | | l1events | 1553073 | 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 | 214165 | 219313 | 210087 | 214891 | 239190 | 455427 | grade 0 events | 101929 | 104389 | 101723 | 104127 | 112905 | 102721 |
| rejected events | 30358 | 30486 | 29790 | 30825 | 33324 | 49453 | | 47% | 47% | 48% | 48% | 47% | 22% |
| rejected % | 14% | 13% | 14% | 14% | 13% | 10% | grade 1 events | 589 | 578 | 606 | 674 | 566 | 270 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 32245 | 33446 | 30569 | 31462 | 35470 | 90002 |
| | | | | | | | | 15% | 15% | 14% | 14% | 14% | 19% |
| | | | | | | | grade 3 events | 11959 | 12116 | 11794 | 12052 | 12941 | 41374 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 4 events | 12067 | 12035 | 11842 | 12037 | 12848 | 41256 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 9% |
| | | | | | | | grade 5 events | 1950 | 2080 | 1841 | 1926 | 2283 | 9054 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 1% |
| | | | | | | | grade 6 events | 26812 | 28077 | 25348 | 25709 | 33062 | 133598 |
| | | | | | | | | 12% | 12% | 12% | 11% | 13% | 29% |
| | | | | | | | grade 7 events | 26614 | 26592 | 26364 | 26904 | 29115 | 37152 |
| | | | | | | | | 12% | 12% | 12% | 12% | 12% | 8% |

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 | 124.9901046677934 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 25.02717508143649 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 75.40302240285502 | | | |
| [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) | 150584901.342995 | 150584900.31828 | | | |
| Observation start date | 2002-10-09T21:08:21 | 2002-10-09T21:08:20 | | | |
| [s] Observation end time (MET) | 150607744.493941 | 150607743.46923 | | | |
| Observation end date | 2002-10-10T03:29:04 | 2002-10-10T03:29:03 | | | |
| 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) | 2012.10.25 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.4028613744676 |

A.2 Comments