

V&V Reference Report

L2 ASCDS Version : 8.5

Observation 59968 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Dec 11 2012

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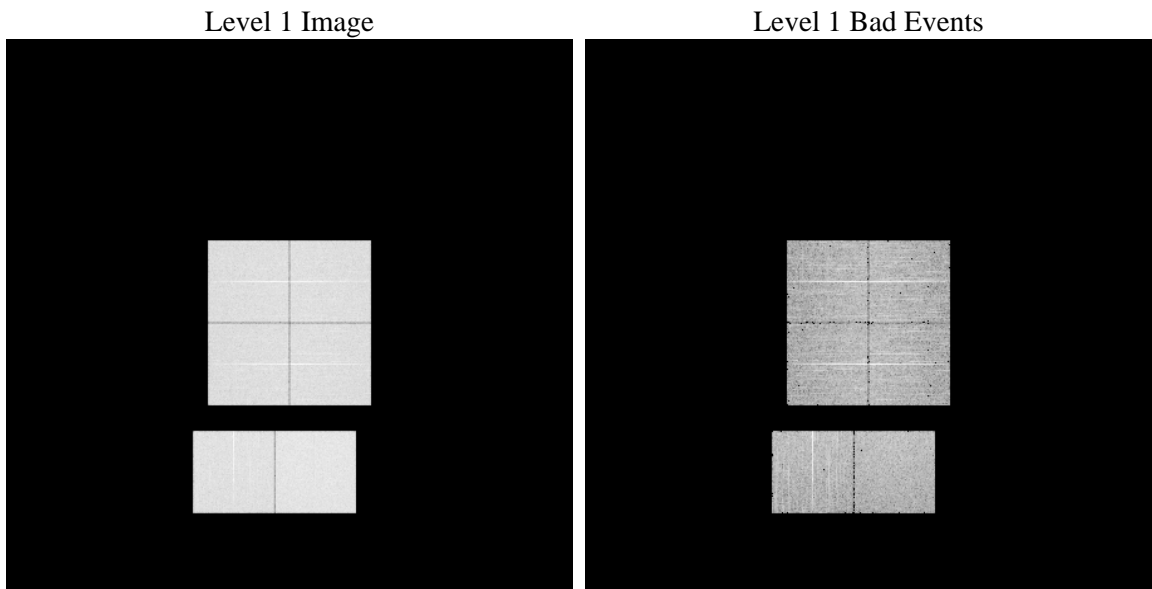
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 59968 | 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 | 53.285680812307 | Nominal RA [deg] |
| dec_nom | -27.932573353336 | Nominal Dec [deg] |
| roll_nom | 4.6514985717893 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 7793.4756088257 | Sum of GTIs [s] |
| livetime | 7694.7899279991 | Livetime [s] |
| ontime0 | 6537.7002289295 | Sum of GTIs [s] |
| ontime1 | 6641.4117459357 | Sum of GTIs [s] |
| ontime2 | 6340.0006003976 | Sum of GTIs [s] |
| ontime3 | 6474.3563609123 | Sum of GTIs [s] |
| ontime6 | 6839.1114443839 | Sum of GTIs [s] |
| ontime7 | 7793.4756088257 | Sum of GTIs [s] |
| l2events | 1090862 | Number of level 2 events |

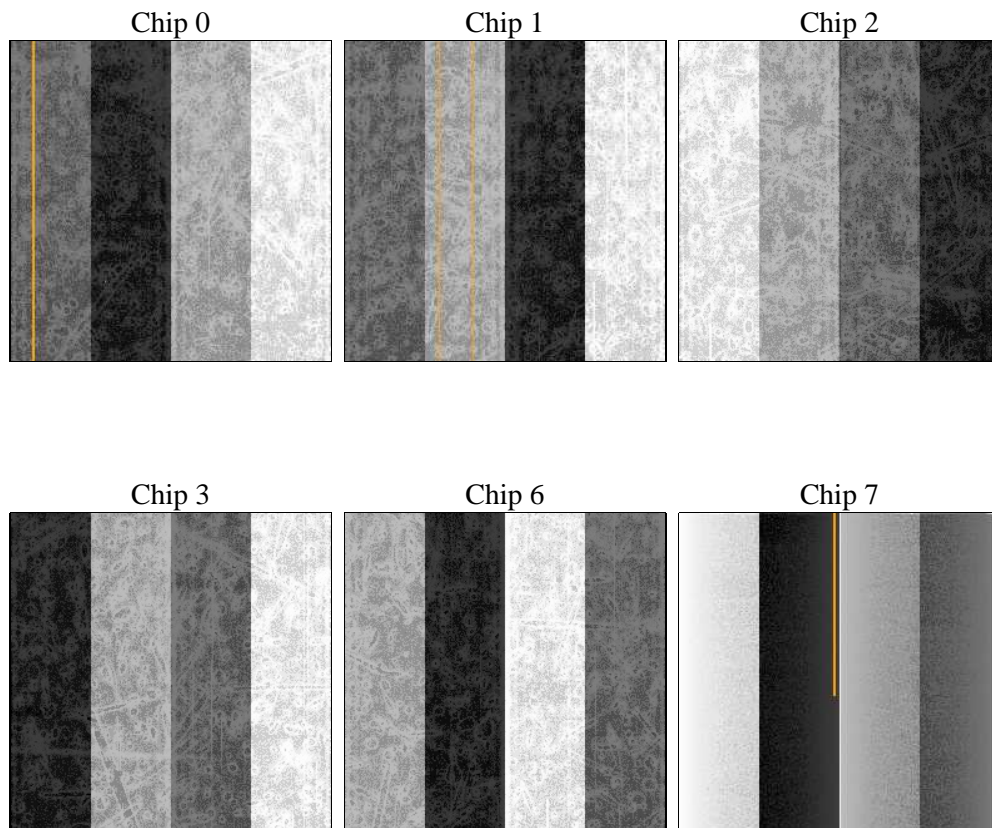
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 2 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 8.5 | Processing system revision | ontime | 7793.4756088257 | Sum of GTIs [s] |
| caldbver | 4.5.4 | | ontime0 | 6537.7002289295 | Sum of GTIs [s] |
| date | 2012-12-11T09:57:45 | Date and time of file creation | ontime1 | 6641.4117459357 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 6340.0006003976 | Sum of GTIs [s] |
| | | | ontime3 | 6474.3563609123 | Sum of GTIs [s] |
| | | | ontime6 | 6839.1114443839 | Sum of GTIs [s] |
| | | | ontime7 | 7793.4756088257 | Sum of GTIs [s] |
| | | | l1events | 1410836 | 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 | 222358 | 226015 | 217846 | 223267 | 244097 | 277253 | grade 0 events | 99375 | 99898 | 98406 | 100239 | 106902 | 56096 |
| rejected events | 42452 | 44305 | 42597 | 44802 | 47247 | 43994 | | 44% | 44% | 45% | 44% | 43% | 20% |
| rejected % | 19% | 19% | 19% | 20% | 19% | 15% | grade 1 events | 554 | 455 | 522 | 596 | 512 | 180 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 31228 | 32358 | 29547 | 30612 | 34002 | 51034 |
| | | | | | | | | 14% | 14% | 13% | 13% | 13% | 18% |
| | | | | | | | grade 3 events | 11565 | 11408 | 11386 | 11619 | 12224 | 22941 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 4 events | 11705 | 11445 | 11423 | 11741 | 12238 | 22912 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 5 events | 2791 | 2809 | 2610 | 2814 | 3245 | 7856 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 2% |
| | | | | | | | grade 6 events | 26033 | 26601 | 24579 | 24254 | 31567 | 80276 |
| | | | | | | | | 11% | 11% | 11% | 10% | 12% | 28% |
| | | | | | | | grade 7 events | 39107 | 41041 | 39373 | 41392 | 43407 | 35958 |
| | | | | | | | | 17% | 18% | 18% | 18% | 17% | 12% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 53.28568081230745 |
| [deg] Pointing Dec | 0 | -27.93257335333629 |
| [deg] Pointing Roll | 0.0 | 4.651498571789338 |
| [mm] SIM focus pos | -0.782348 | -0.7809083437167272 |
| [mm] SIM defocus | 0 | 0.7524282956875696 |
| [mm] SIM translation stage pos | -233.592463 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 216804723.751696 | 216804722.7267 |
| Observation start date | 2004-11-14T07:32:04 | 2004-11-14T07:32:02 |
| [s] Observation end time (MET) | 216843997.653458 | 216843996.62846 |
| Observation end date | 2004-11-14T18:26:38 | 2004-11-14T18:26:36 |
| 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 | 3.2 | 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) | 2013.01.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.7934756088257 |

A.2 Comments