

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60397 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 10 2012

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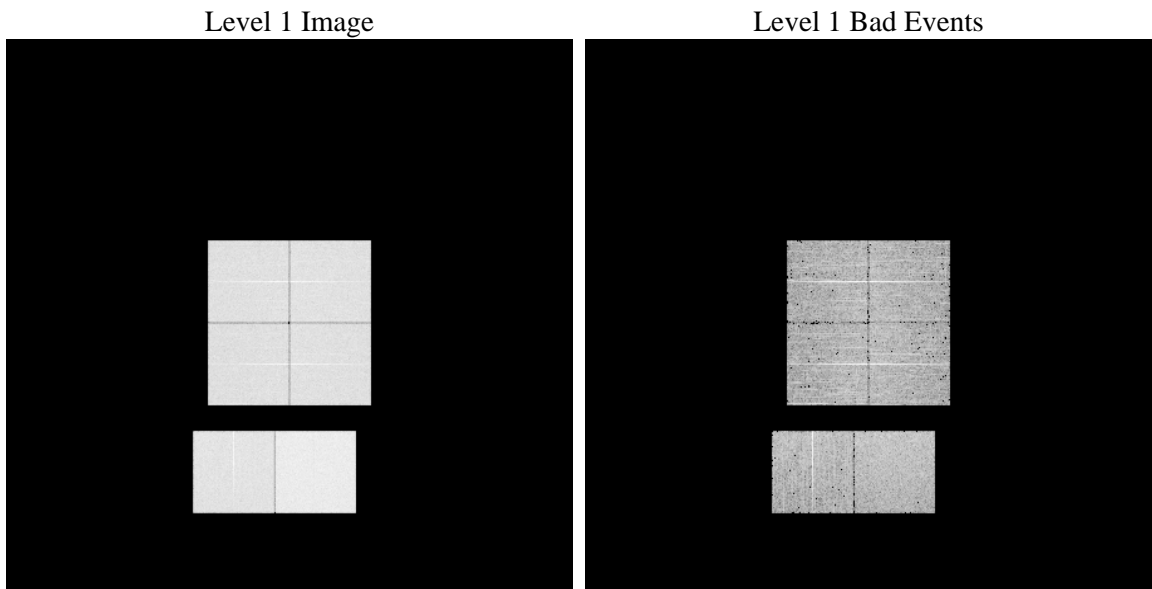
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 60397 | 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 | 165.11868426202 | Nominal RA [deg] |
| dec_nom | -65.199350765338 | Nominal Dec [deg] |
| roll_nom | 37.314063715295 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8467.1718356013 | Sum of GTIs [s] |
| livetime | 8359.9554075002 | Livetime [s] |
| ontime0 | 6000.8244393766 | Sum of GTIs [s] |
| ontime1 | 6192.0416557193 | Sum of GTIs [s] |
| ontime2 | 5738.3056997955 | Sum of GTIs [s] |
| ontime3 | 5851.6701273918 | Sum of GTIs [s] |
| ontime6 | 6295.8880835176 | Sum of GTIs [s] |
| ontime7 | 8467.1718356013 | Sum of GTIs [s] |
| l2events | 1255826 | Number of level 2 events |

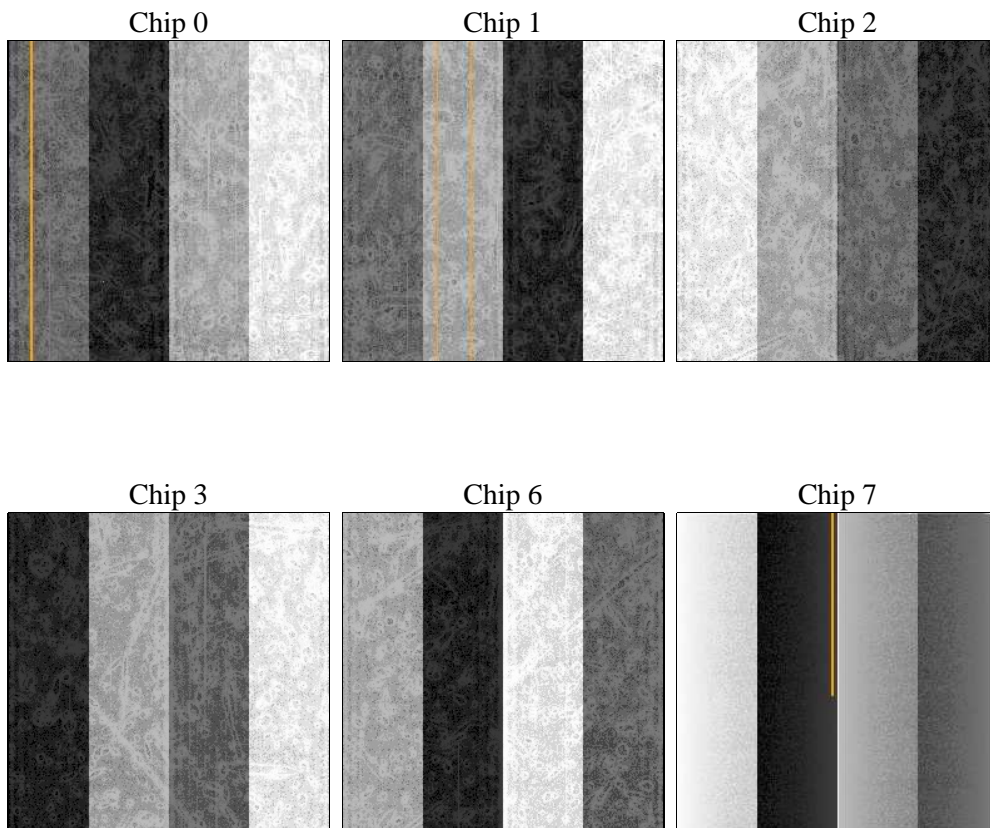
2 OBI

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 | 8467.1718356013 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 6000.8244393766 | Sum of GTIs [s] |
| date | 2012-11-11T00:49:31 | Date and time of file creation | ontime1 | 6192.0416557193 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 5738.3056997955 | Sum of GTIs [s] |
| | | | ontime3 | 5851.6701273918 | Sum of GTIs [s] |
| | | | ontime6 | 6295.8880835176 | Sum of GTIs [s] |
| | | | ontime7 | 8467.1718356013 | Sum of GTIs [s] |
| | | | l1events | 1536987 | 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 | 233508 | 241078 | 227627 | 233964 | 258654 | 342156 | grade 0 events | 110247 | 113306 | 107860 | 111096 | 119468 | 74362 |
| rejected events | 34184 | 34640 | 35271 | 36091 | 38755 | 41968 | | 47% | 46% | 47% | 47% | 46% | 21% |
| rejected % | 14% | 14% | 15% | 15% | 14% | 12% | grade 1 events | 544 | 508 | 583 | 581 | 541 | 189 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 34572 | 36778 | 32455 | 34001 | 37888 | 66299 |
| | | | | | | | | 14% | 15% | 14% | 14% | 14% | 19% |
| | | | | | | | grade 3 events | 12614 | 13147 | 12542 | 12727 | 13607 | 30317 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 4 events | 12860 | 13191 | 12616 | 12934 | 13701 | 29786 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 5 events | 2480 | 2467 | 2154 | 2520 | 2787 | 7818 |
| | | | | | | | | 1% | 1% | 0% | 1% | 1% | 2% |
| | | | | | | | grade 6 events | 29031 | 30016 | 26883 | 27115 | 35235 | 99424 |
| | | | | | | | | 12% | 12% | 11% | 11% | 13% | 29% |
| | | | | | | | grade 7 events | 31160 | 31665 | 32534 | 32990 | 35427 | 33961 |
| | | | | | | | | 13% | 13% | 14% | 14% | 13% | 9% |

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 | 165.1186842620241 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -65.19935076533753 | [s] Primary exposure time | 0.000000 | 3.2 |
| [deg] Pointing Roll | 0.0 | 37.31406371529538 | | | |
| [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) | 191255101.120234 | 191255100.09552 | | | |
| Observation start date | 2004-01-23T14:25:01 | 2004-01-23T14:25:00 | | | |
| [s] Observation end time (MET) | 191277657.271218 | 191277656.2465 | | | |
| Observation end date | 2004-01-23T20:40:57 | 2004-01-23T20:40:56 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.12.18 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.4671718356013 |

A.2 Comments