

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 54175 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Nov 10 2012

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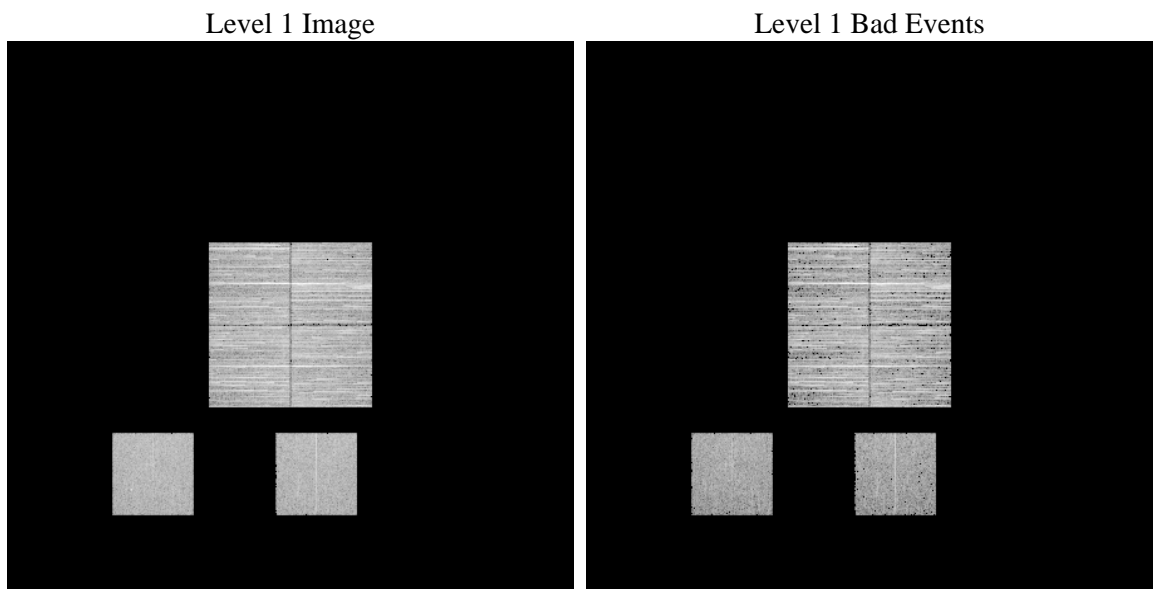
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 54175 | Observation id |
| title | ACIS-012357 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 | 52.943755296571 | Nominal RA [deg] |
| dec_nom | -6.222891712374 | Nominal Dec [deg] |
| roll_nom | 18.960077389841 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 3699.199986279 | Sum of GTIs [s] |
| livetime | 3652.3584886619 | Livetime [s] |
| ontime0 | 3699.199986279 | Sum of GTIs [s] |
| ontime1 | 3699.199986279 | Sum of GTIs [s] |
| ontime2 | 3695.9589458108 | Sum of GTIs [s] |
| ontime3 | 3699.199986279 | Sum of GTIs [s] |
| ontime5 | 3699.199986279 | Sum of GTIs [s] |
| ontime7 | 3699.199986279 | Sum of GTIs [s] |
| l2events | 116500 | Number of level 2 events |

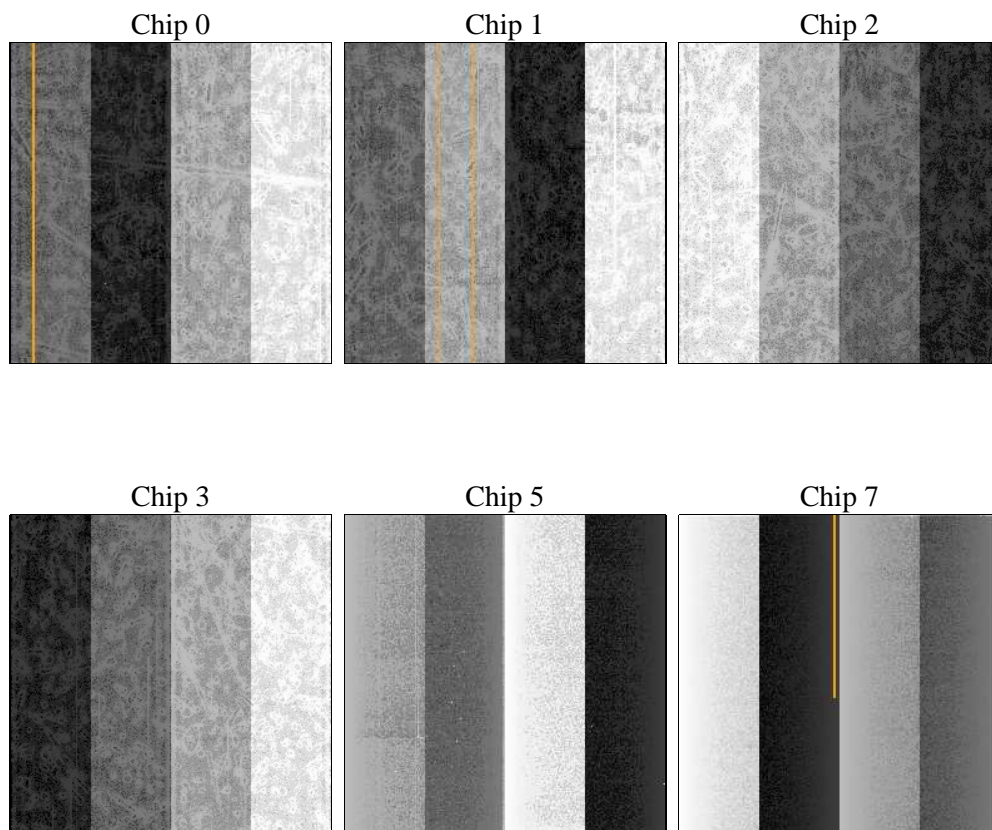
2 OBI

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 | 3699.199986279 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 3699.199986279 | Sum of GTIs [s] |
| date | 2012-11-10T08:52:55 | Date and time of file creation | ontime1 | 3699.199986279 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 3695.9589458108 | Sum of GTIs [s] |
| | | | ontime3 | 3699.199986279 | Sum of GTIs [s] |
| | | | ontime5 | 3699.199986279 | Sum of GTIs [s] |
| | | | ontime7 | 3699.199986279 | Sum of GTIs [s] |
| | | | l1events | 432937 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 75739 | 79386 | 78689 | 75706 | 62724 | 60693 | grade 0 events | 8279 | 7733 | 8377 | 8489 | 2424 | 4077 |
| rejected events | 59418 | 63126 | 62397 | 59284 | 34178 | 32421 | | 10% | 9% | 10% | 11% | 3% | 6% |
| rejected % | 78% | 79% | 79% | 78% | 54% | 53% | grade 1 events | 37 | 40 | 41 | 55 | 71 | 37 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 3410 | 3741 | 3208 | 3229 | 10970 | 6954 |
| | | | | | | | | 4% | 4% | 4% | 4% | 17% | 11% |
| | | | | | | | grade 3 events | 1127 | 1048 | 1111 | 1145 | 867 | 2186 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1065 | 1003 | 1137 | 1073 | 877 | 2217 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 1309 | 1239 | 1260 | 1381 | 2642 | 3425 |
| | | | | | | | | 1% | 1% | 1% | 1% | 4% | 5% |
| | | | | | | | grade 6 events | 2440 | 2735 | 2459 | 2501 | 13408 | 12838 |
| | | | | | | | | 3% | 3% | 3% | 3% | 21% | 21% |
| | | | | | | | grade 7 events | 58072 | 61847 | 61096 | 57833 | 31465 | 28959 |
| | | | | | | | | 76% | 77% | 77% | 76% | 50% | 47% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012357 | ACIS-012357 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | SECONDARY | SECONDARY | On-chip summing requested | N | N |
| [deg] Pointing RA | 0 | 52.94375529657137 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -6.222891712374006 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 18.96007738984061 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 468850655.334749 | 468850654.30975 | | | |
| Observation start date | 2012-11-09T12:17:35 | 2012-11-09T12:17:34 | | | |
| [s] Observation end time (MET) | 468856249.785015 | 468856248.76001 | | | |
| Observation end date | 2012-11-09T13:50:50 | 2012-11-09T13:50:48 | | | |
| 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) | 2012.11.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.699199986279 |

A.2 Comments