

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 55243 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Feb 19 2012

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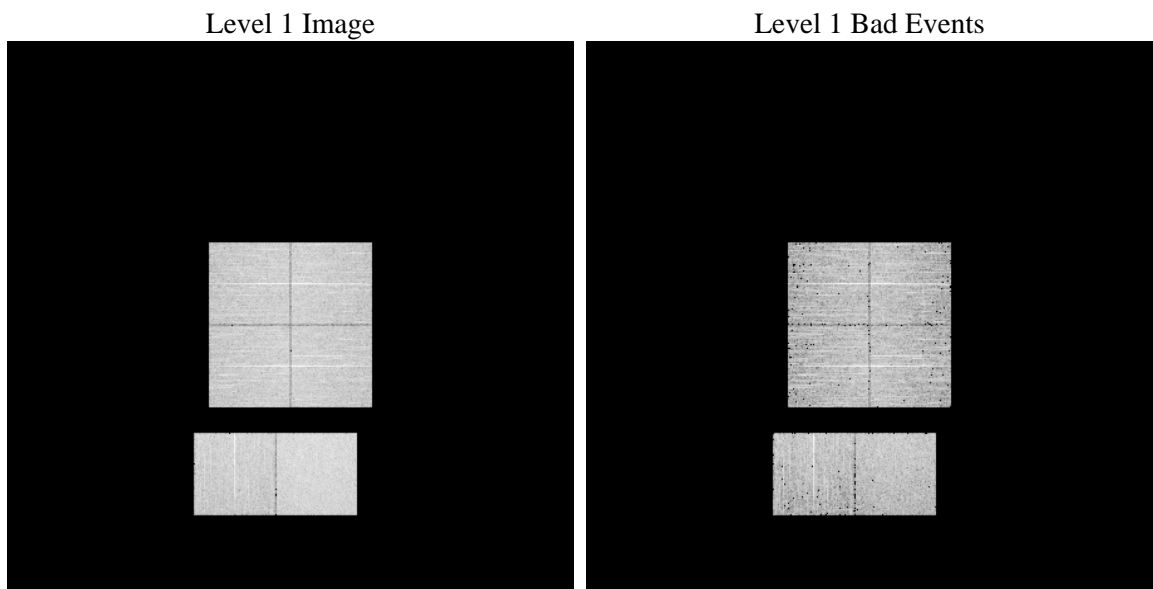
1 Front

| | | |
|----------|-------------------------------------------------|---------------------------------------------|
| seq_num | | Sequence number |
| obs_id | 55243 | 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 | 88.481137023223 | Nominal RA [deg] |
| dec_nom | 15.522241692285 | Nominal Dec [deg] |
| roll_nom | 96.55730584694 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 5778.1241109371 | Sum of GTIs [s] |
| livetime | 5704.9580242758 | Livetime [s] |
| ontime0 | 5778.0830709338 | Sum of GTIs [s] |
| ontime1 | 5778.0420309305 | Sum of GTIs [s] |
| ontime2 | 5778.0009909272 | Sum of GTIs [s] |
| ontime3 | 5774.9241805673 | Sum of GTIs [s] |
| ontime6 | 5777.9599509239 | Sum of GTIs [s] |
| ontime7 | 5778.1241109371 | Sum of GTIs [s] |
| l2events | 208657 | Number of level 2 events |

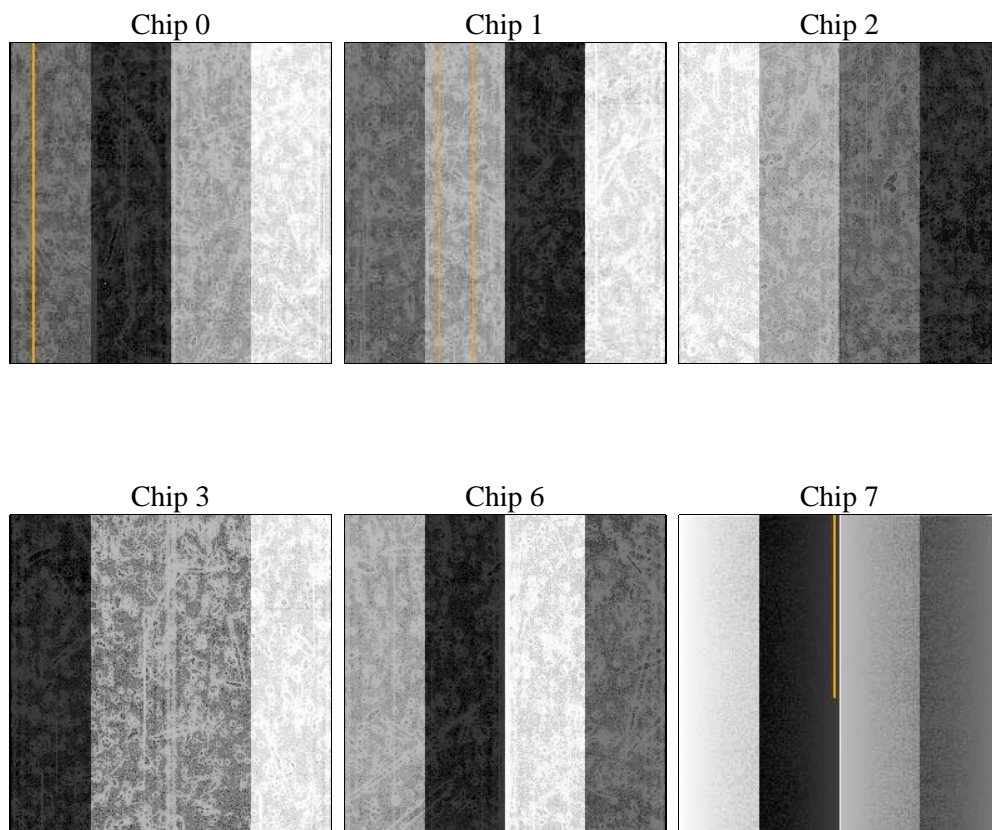
2 OBI

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 | 8.4.3 | Processing system revision | ontime | 5778.1241109371 | Sum of GTIs [s] |
| caldsver | 4.4.8 | | ontime0 | 5778.0830709338 | Sum of GTIs [s] |
| date | 2012-02-20T01:49:33 | Date and time of file creation | ontime1 | 5778.0420309305 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 5778.0009909272 | Sum of GTIs [s] |
| | | | ontime3 | 5774.9241805673 | Sum of GTIs [s] |
| | | | ontime6 | 5777.9599509239 | Sum of GTIs [s] |
| | | | ontime7 | 5778.1241109371 | Sum of GTIs [s] |
| | | | l1events | 448895 | 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 | 68970 | 70357 | 70539 | 71719 | 72935 | 94375 | grade 0 events | 17353 | 17179 | 17764 | 17786 | 17771 | 9033 |
| rejected events | 35740 | 37015 | 37721 | 38583 | 38536 | 40435 | | 25% | 24% | 25% | 24% | 24% | 9% |
| rejected % | 51% | 52% | 53% | 53% | 52% | 42% | grade 1 events | 110 | 90 | 96 | 125 | 99 | 77 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 6276 | 6429 | 5792 | 5871 | 6205 | 11594 |
| | | | | | | | | 9% | 9% | 8% | 8% | 8% | 12% |
| | | | | | | | grade 3 events | 2280 | 2263 | 2201 | 2310 | 2341 | 4821 |
| | | | | | | | | 3% | 3% | 3% | 3% | 3% | 5% |
| | | | | | | | grade 4 events | 2267 | 2183 | 2204 | 2297 | 2277 | 4845 |
| | | | | | | | | 3% | 3% | 3% | 3% | 3% | 5% |
| | | | | | | | grade 5 events | 2360 | 2405 | 2232 | 2608 | 2483 | 6280 |
| | | | | | | | | 3% | 3% | 3% | 3% | 3% | 6% |
| | | | | | | | grade 6 events | 5054 | 5288 | 4857 | 4872 | 5805 | 23647 |
| | | | | | | | | 7% | 7% | 6% | 6% | 7% | 25% |
| | | | | | | | grade 7 events | 33270 | 34520 | 35393 | 35850 | 35954 | 34078 |
| | | | | | | | | 48% | 49% | 50% | 49% | 49% | 36% |

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 | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | SECONDARY | SECONDARY | On-chip summing requested | N | N |
| [deg] Pointing RA | 0 | 88.48113702322259 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 15.52224169228506 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 96.55730584694035 | [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) | 429777888.203258 | 429777887.17828 | | | |
| Observation start date | 2011-08-15T06:44:48 | 2011-08-15T06:44:47 | | | |
| [s] Observation end time (MET) | 429785555.20366 | 429785554.17868 | | | |
| Observation end date | 2011-08-15T08:52:35 | 2011-08-15T08:52:34 | | | |
| 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) | 2012.02.21 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.7781241109371 |

A.2 Comments