

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 61695 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Sep 14 2012

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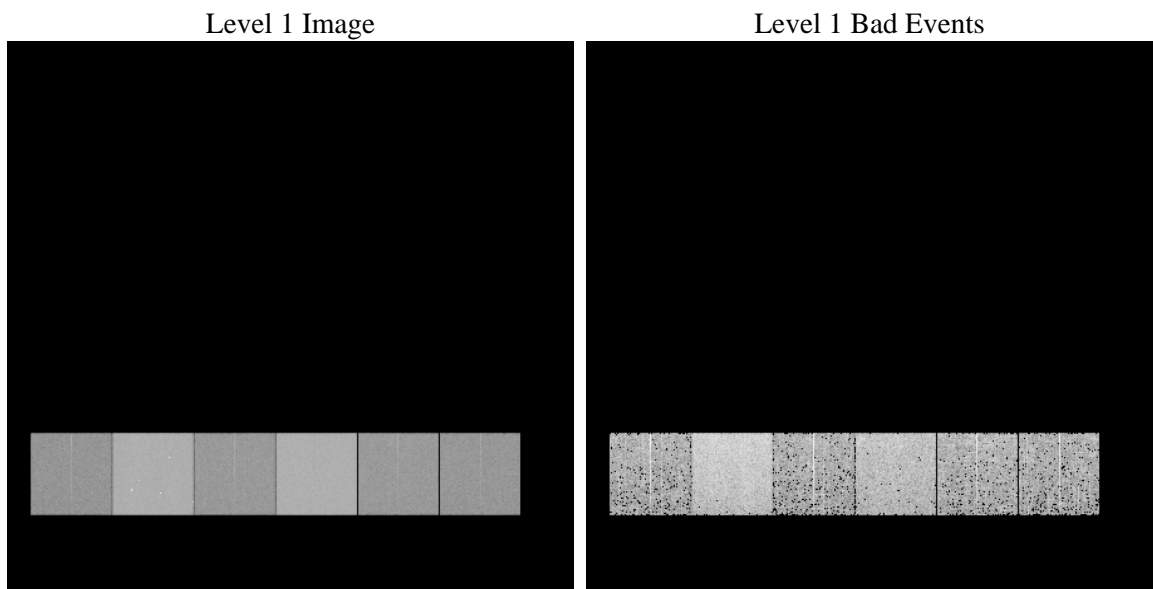
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 61695 | Observation id |
| title | ACIS-456789 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 | 299.99471963123 | Nominal RA [deg] |
| dec_nom | 65.028588059109 | Nominal Dec [deg] |
| roll_nom | 61.799827254164 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 5059.2279589325 | Sum of GTIs [s] |
| livetime | 4995.1649682152 | Livetime [s] |
| ontime4 | 2035.2969014794 | Sum of GTIs [s] |
| ontime5 | 5444.9024472833 | Sum of GTIs [s] |
| ontime6 | 2197.3896819204 | Sum of GTIs [s] |
| ontime7 | 5059.2279589325 | Sum of GTIs [s] |
| ontime8 | 2242.68210195 | Sum of GTIs [s] |
| ontime9 | 2119.6381109655 | Sum of GTIs [s] |
| l2events | 1220577 | Number of level 2 events |

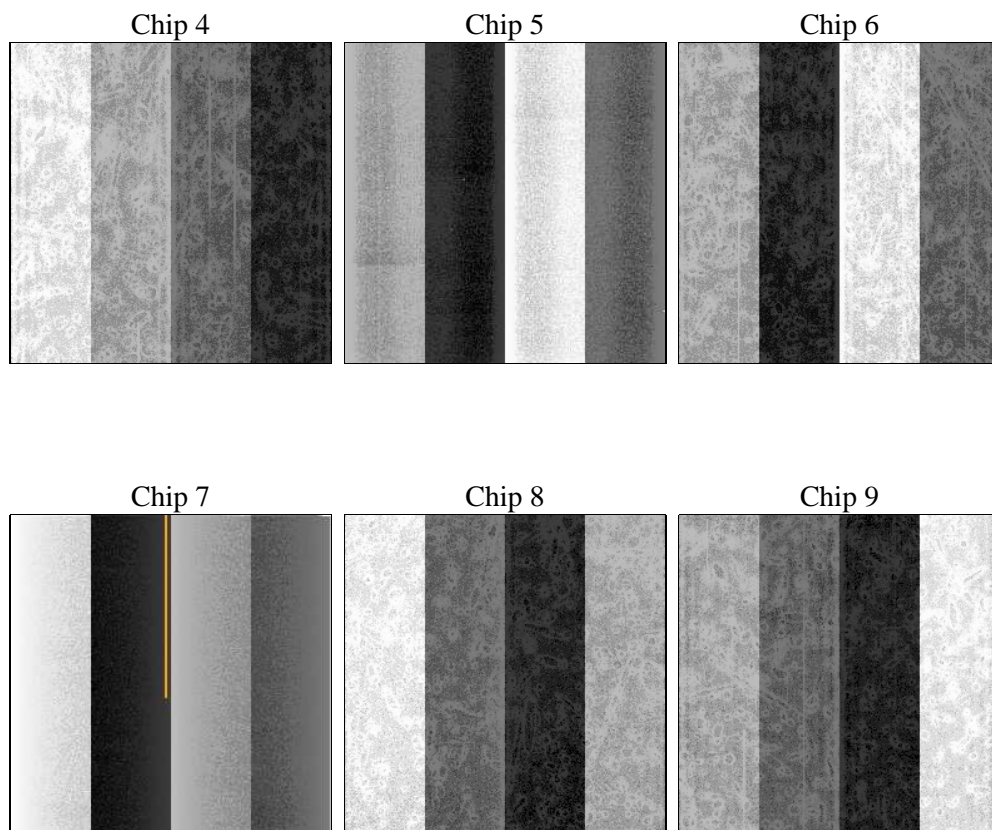
2 OBI

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 | 5059.2279589325 | Sum of GTIs [s] |
| caldbver | 4.5.1.1 | | ontime4 | 2035.2969014794 | Sum of GTIs [s] |
| date | 2012-09-14T11:33:04 | Date and time of file creation | ontime5 | 5444.9024472833 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 2197.3896819204 | Sum of GTIs [s] |
| | | | ontime7 | 5059.2279589325 | Sum of GTIs [s] |
| | | | ontime8 | 2242.68210195 | Sum of GTIs [s] |
| | | | ontime9 | 2119.6381109655 | Sum of GTIs [s] |
| | | | l1events | 1415342 | Number of level 1 events |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 | | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|-------|--------|-------|--------|-------|-------|
| level 1 events | 150466 | 371312 | 174241 | 380237 | 177815 | 161271 | grade 0 events | 75063 | 85796 | 85884 | 90776 | 87373 | 78689 |
| rejected events | 17805 | 39286 | 17571 | 27205 | 19220 | 17393 | | 49% | 23% | 49% | 23% | 49% | 48% |
| rejected % | 11% | 10% | 10% | 7% | 10% | 10% | grade 1 events | 367 | 285 | 424 | 234 | 428 | 410 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 23370 | 114591 | 27066 | 78386 | 27824 | 25375 |
| | | | | | | | | 15% | 30% | 15% | 20% | 15% | 15% |
| | | | | | | | grade 3 events | 8348 | 22324 | 9605 | 35969 | 10144 | 8965 |
| | | | | | | | | 5% | 6% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 4 events | 8097 | 21794 | 9674 | 35852 | 9863 | 8875 |
| | | | | | | | | 5% | 5% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 5 events | 1199 | 7835 | 1332 | 5777 | 1558 | 1316 |
| | | | | | | | | 0% | 2% | 0% | 1% | 0% | 0% |
| | | | | | | | grade 6 events | 17783 | 87521 | 24441 | 112049 | 23391 | 21974 |
| | | | | | | | | 11% | 23% | 14% | 29% | 13% | 13% |
| | | | | | | | grade 7 events | 16239 | 31166 | 15815 | 21194 | 17234 | 15667 |
| | | | | | | | | 10% | 8% | 9% | 5% | 9% | 9% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-456789 | ACIS-456789 | 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 | 299.9947196312324 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 65.02858805910918 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 61.79982725416438 | | | |
| [mm] SIM focus pos | -0.684267 | -1.428180813131781 | | | |
| [mm] SIM defocus | 0 | 0.1051558262725154 | | | |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 101426110.266511 | 101426109.49806 | | | |
| Observation start date | 2001-03-19T21:55:10 | 2001-03-19T21:55:09 | | | |
| [s] Observation end time (MET) | 101438166.316977 | 101438165.54853 | | | |
| Observation end date | 2001-03-20T01:16:06 | 2001-03-20T01:16:05 | | | |
| 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) | 2012.09.18 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.0592279589325 |

A.2 Comments