

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 56604 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 18 2012

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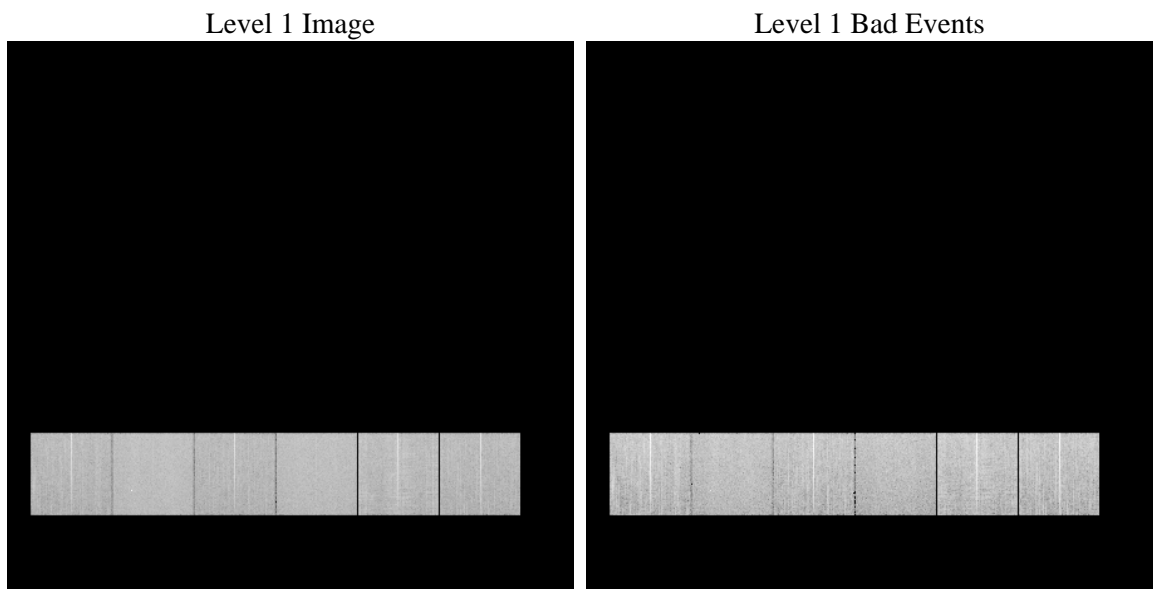
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 56604 | 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 | 79.022602953091 | Nominal RA [deg] |
| dec_nom | -1.4822741919584 | Nominal Dec [deg] |
| roll_nom | 5.1924038220993 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8395.9586774111 | Sum of GTIs [s] |
| livetime | 8289.6439931983 | Livetime [s] |
| ontime4 | 8395.8355574012 | Sum of GTIs [s] |
| ontime5 | 8395.9176374078 | Sum of GTIs [s] |
| ontime6 | 8395.8765974045 | Sum of GTIs [s] |
| ontime7 | 8395.9586774111 | Sum of GTIs [s] |
| ontime8 | 8395.7945173979 | Sum of GTIs [s] |
| ontime9 | 8395.9997174144 | Sum of GTIs [s] |
| l2events | 482216 | Number of level 2 events |

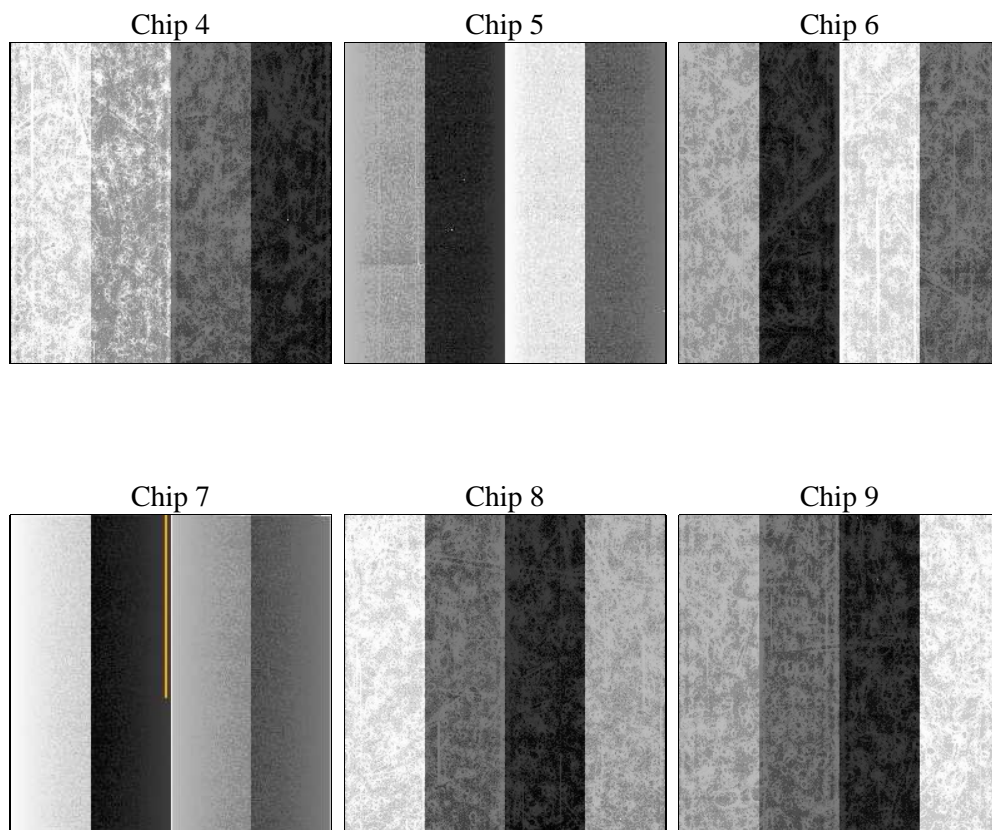
2 OBI

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 | 8395.9586774111 | Sum of GTIs [s] |
| caldsver | 4.4.10 | | ontime4 | 8395.8355574012 | Sum of GTIs [s] |
| date | 2012-06-17T19:32:03 | Date and time of file creation | ontime5 | 8395.9176374078 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 8395.8765974045 | Sum of GTIs [s] |
| | | | ontime7 | 8395.9586774111 | Sum of GTIs [s] |
| | | | ontime8 | 8395.7945173979 | Sum of GTIs [s] |
| | | | ontime9 | 8395.9997174144 | Sum of GTIs [s] |
| | | | l1events | 1030368 | 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 | 157551 | 191264 | 156689 | 185401 | 181837 | 157626 | grade 0 events | 39020 | 13089 | 38229 | 19315 | 43148 | 38140 |
| rejected events | 88861 | 79868 | 83502 | 74946 | 93132 | 86045 | | 24% | 6% | 24% | 10% | 23% | 24% |
| rejected % | 56% | 41% | 53% | 40% | 51% | 54% | grade 1 events | 390 | 272 | 230 | 147 | 307 | 310 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 11028 | 41417 | 13642 | 24172 | 16873 | 12741 |
| | | | | | | | | 6% | 21% | 8% | 13% | 9% | 8% |
| | | | | | | | grade 3 events | 5017 | 4758 | 4609 | 9966 | 6685 | 4890 |
| | | | | | | | | 3% | 2% | 2% | 5% | 3% | 3% |
| | | | | | | | grade 4 events | 4796 | 4450 | 4646 | 9859 | 6633 | 4864 |
| | | | | | | | | 3% | 2% | 2% | 5% | 3% | 3% |
| | | | | | | | grade 5 events | 4461 | 9988 | 4554 | 11682 | 6074 | 5137 |
| | | | | | | | | 2% | 5% | 2% | 6% | 3% | 3% |
| | | | | | | | grade 6 events | 9297 | 48416 | 12487 | 47826 | 15982 | 11411 |
| | | | | | | | | 5% | 25% | 7% | 25% | 8% | 7% |
| | | | | | | | grade 7 events | 83542 | 68874 | 78292 | 62434 | 86135 | 80133 |
| | | | | | | | | 53% | 36% | 49% | 33% | 47% | 50% |

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 | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | SECONDARY | SECONDARY | On-chip summing requested | N | N |
| [deg] Pointing RA | 0 | 79.02260295309064 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -1.482274191958422 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 5.192403822099299 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.8505141146731063 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 376777296.552485 | 376777295.52749 | | | |
| Observation start date | 2009-12-09T20:21:37 | 2009-12-09T20:21:35 | | | |
| [s] Observation end time (MET) | 376787940.153022 | 376787939.12803 | | | |
| Observation end date | 2009-12-09T23:19:00 | 2009-12-09T23:18:59 | | | |
| 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) | 2012.06.22 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.3959586774111 |

A.2 Comments