

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 55849 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jul 7 2012

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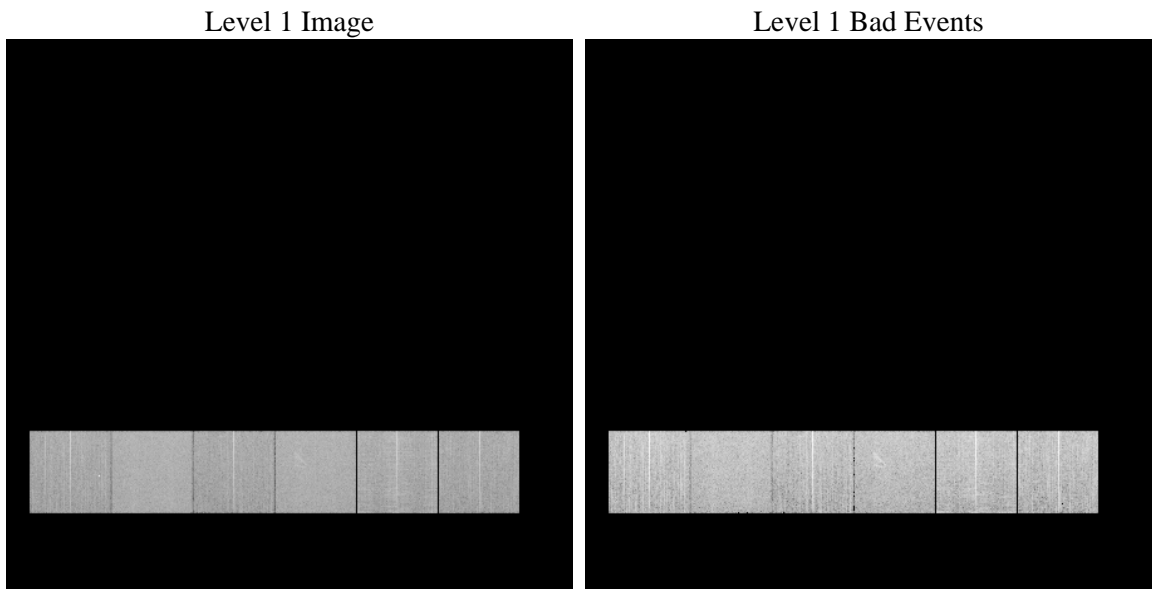
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 55849 | 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 | 33.528172540077 | Nominal RA [deg] |
| dec_nom | 19.9756349555 | Nominal Dec [deg] |
| roll_nom | 275.56110776474 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8280.6546545029 | Sum of GTIs [s] |
| livetime | 8175.8000192559 | Livetime [s] |
| ontime4 | 8280.531534493 | Sum of GTIs [s] |
| ontime5 | 8280.6136144996 | Sum of GTIs [s] |
| ontime6 | 8277.3317135572 | Sum of GTIs [s] |
| ontime7 | 8280.6546545029 | Sum of GTIs [s] |
| ontime8 | 8280.4904944897 | Sum of GTIs [s] |
| ontime9 | 8280.6956945062 | Sum of GTIs [s] |
| l2events | 385062 | Number of level 2 events |

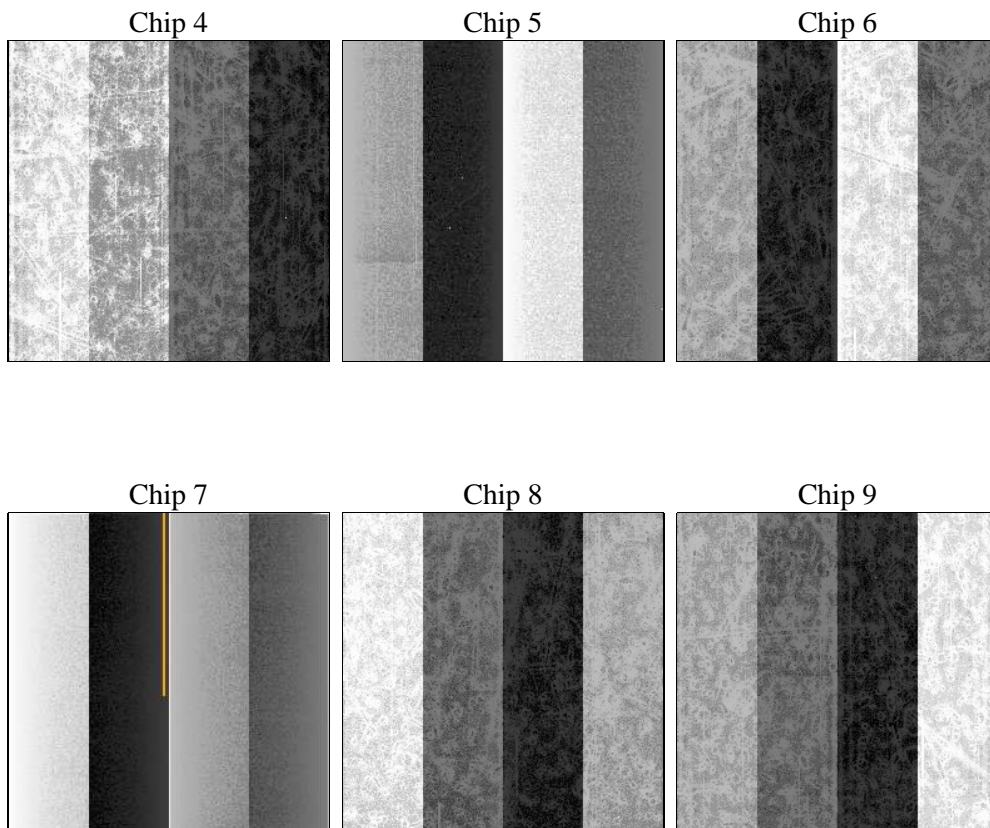
2 OBI

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 | 8280.6546545029 | Sum of GTIs [s] |
| caldsver | 4.5.0 | | ontime4 | 8280.531534493 | Sum of GTIs [s] |
| date | 2012-07-07T06:06:57 | Date and time of file creation | ontime5 | 8280.6136144996 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 8277.3317135572 | Sum of GTIs [s] |
| | | | ontime7 | 8280.6546545029 | Sum of GTIs [s] |
| | | | ontime8 | 8280.4904944897 | Sum of GTIs [s] |
| | | | ontime9 | 8280.6956945062 | Sum of GTIs [s] |
| | | | l1events | 829378 | 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 | 128301 | 156289 | 122910 | 154237 | 142950 | 124691 | grade 0 events | 31377 | 10263 | 29933 | 15387 | 33503 | 30241 |
| rejected events | 72563 | 66491 | 64842 | 64842 | 72846 | 67607 | | 24% | 6% | 24% | 9% | 23% | 24% |
| rejected % | 56% | 42% | 52% | 42% | 50% | 54% | grade 1 events | 275 | 168 | 226 | 141 | 246 | 213 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 9017 | 32484 | 10643 | 19245 | 13380 | 10046 |
| | | | | | | | | 7% | 20% | 8% | 12% | 9% | 8% |
| | | | | | | | grade 3 events | 3983 | 3712 | 3837 | 8105 | 5327 | 3863 |
| | | | | | | | | 3% | 2% | 3% | 5% | 3% | 3% |
| | | | | | | | grade 4 events | 3929 | 3602 | 3853 | 8030 | 5181 | 3887 |
| | | | | | | | | 3% | 2% | 3% | 5% | 3% | 3% |
| | | | | | | | grade 5 events | 4011 | 8317 | 4059 | 10005 | 5334 | 4489 |
| | | | | | | | | 3% | 5% | 3% | 6% | 3% | 3% |
| | | | | | | | grade 6 events | 7432 | 39737 | 9802 | 38628 | 12713 | 9047 |
| | | | | | | | | 5% | 25% | 7% | 25% | 8% | 7% |
| | | | | | | | grade 7 events | 68277 | 58006 | 60557 | 54696 | 67266 | 62905 |
| | | | | | | | | 53% | 37% | 49% | 35% | 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 | 33.52817254007722 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 19.9756349554995 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 275.5611077647436 | [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) | 406933872.290184 | 406933871.26519 | | | |
| Observation start date | 2010-11-23T21:11:12 | 2010-11-23T21:11:11 | | | |
| [s] Observation end time (MET) | 406943337.140672 | 406943336.11568 | | | |
| Observation end date | 2010-11-23T23:48:57 | 2010-11-23T23:48:56 | | | |
| 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) | 2012.07.17 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2806546545029 |

A.2 Comments