

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58369 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 25 2012

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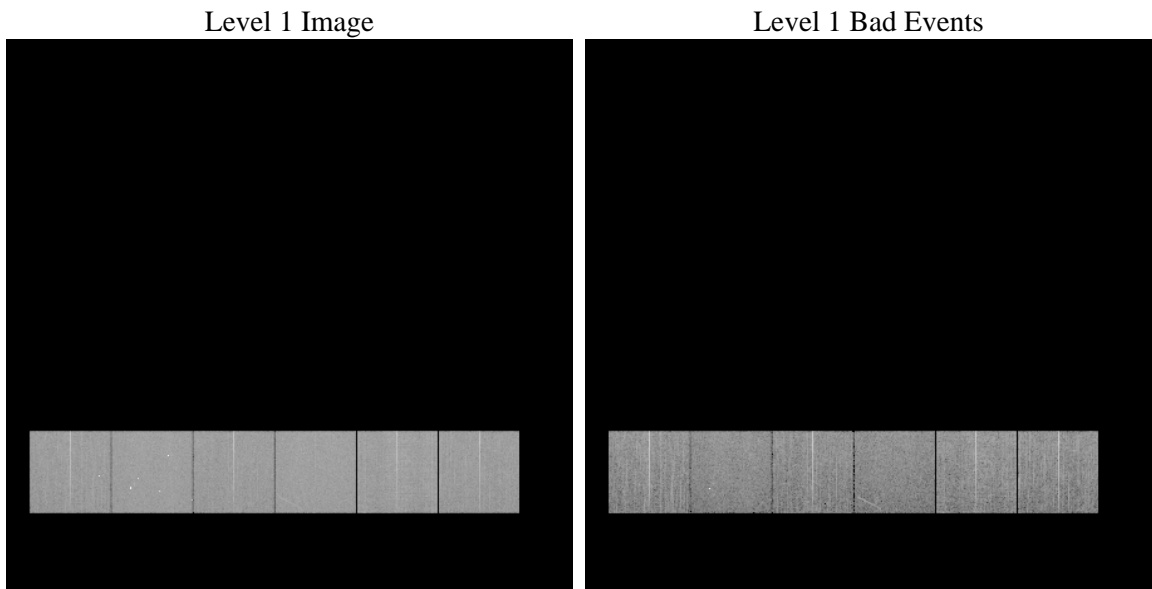
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58369 | Observation id |
| title | ACIS-456789 diagnostics | Proposal title |
| observer | CHANDRA engineering request/realtime commanding | Principal investig |
| object | | Source name |
| dtycycle | 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 | 222.02050546471 | Nominal RA [deg] |
| dec_nom | -29.022432307665 | Nominal Dec [deg] |
| roll_nom | 275.79267196876 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 7793.8233835697 | Sum of GTIs [s] |
| livetime | 7695.1332990099 | Livetime [s] |
| ontime4 | 7793.7002635598 | Sum of GTIs [s] |
| ontime5 | 7793.7823435664 | Sum of GTIs [s] |
| ontime6 | 7790.5003232956 | Sum of GTIs [s] |
| ontime7 | 7793.8233835697 | Sum of GTIs [s] |
| ontime8 | 7793.6592235565 | Sum of GTIs [s] |
| ontime9 | 7793.864423573 | Sum of GTIs [s] |
| l2events | 714397 | Number of level 2 events |

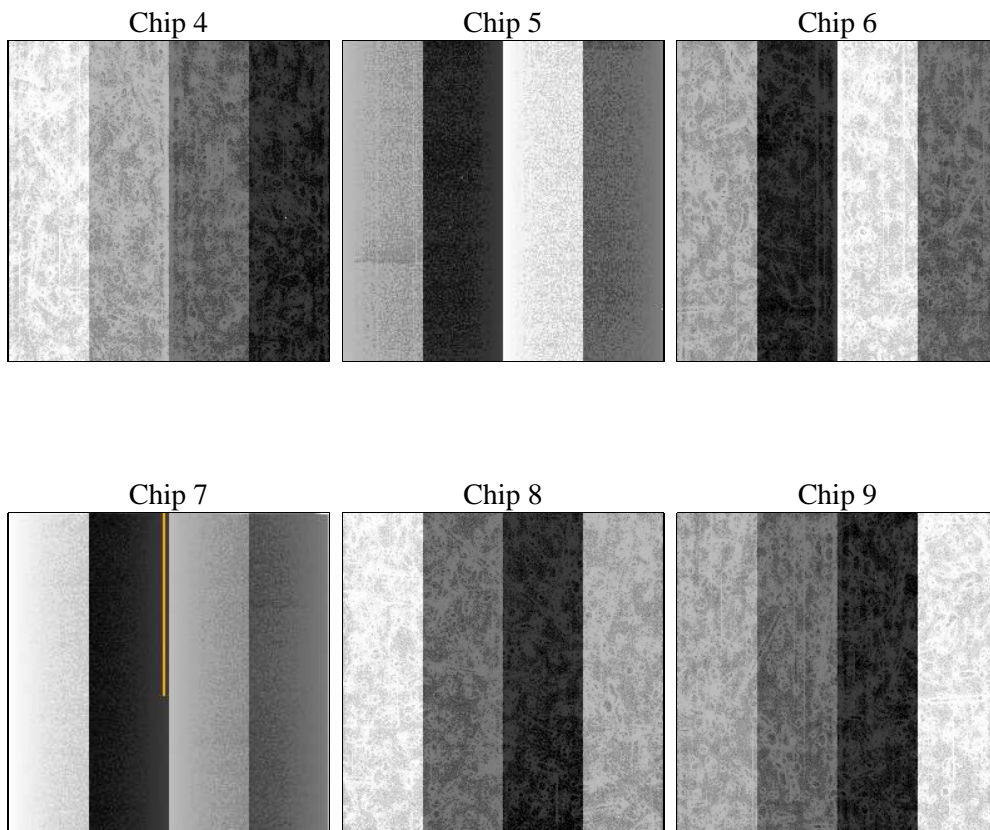
2 OBI

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 | 8.4.4 | Processing system revision | ontime | 7793.8233835697 | Sum of GTIs [s] |
| caldbver | 4.4.9 | | ontime4 | 7793.7002635598 | Sum of GTIs [s] |
| date | 2012-04-25T22:31:26 | Date and time of file creation | ontime5 | 7793.7823435664 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 7790.5003232956 | Sum of GTIs [s] |
| | | | ontime7 | 7793.8233835697 | Sum of GTIs [s] |
| | | | ontime8 | 7793.6592235565 | Sum of GTIs [s] |
| | | | ontime9 | 7793.864423573 | Sum of GTIs [s] |
| | | | l1events | 1197293 | 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 | 190401 | 209158 | 190147 | 209620 | 208922 | 189045 | grade 0 events | 64679 | 26648 | 63911 | 31937 | 67692 | 63329 |
| rejected events | 77605 | 66342 | 70458 | 61048 | 78133 | 72786 | | 33% | 12% | 33% | 15% | 32% | 33% |
| rejected % | 40% | 31% | 37% | 29% | 37% | 38% | grade 1 events | 603 | 232 | 403 | 166 | 466 | 490 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 18086 | 51160 | 21128 | 32198 | 23910 | 19980 |
| | | | | | | | | 9% | 24% | 11% | 15% | 11% | 10% |
| | | | | | | | grade 3 events | 7686 | 7312 | 7600 | 14478 | 9088 | 7711 |
| | | | | | | | | 4% | 3% | 3% | 6% | 4% | 4% |
| | | | | | | | grade 4 events | 7748 | 7036 | 7710 | 14355 | 8926 | 7700 |
| | | | | | | | | 4% | 3% | 4% | 6% | 4% | 4% |
| | | | | | | | grade 5 events | 3985 | 9394 | 3991 | 10044 | 5202 | 4500 |
| | | | | | | | | 2% | 4% | 2% | 4% | 2% | 2% |
| | | | | | | | grade 6 events | 14597 | 50660 | 19340 | 55604 | 21173 | 17539 |
| | | | | | | | | 7% | 24% | 10% | 26% | 10% | 9% |
| | | | | | | | grade 7 events | 73017 | 56716 | 66064 | 50838 | 72465 | 67796 |
| | | | | | | | | 38% | 27% | 34% | 24% | 34% | 35% |

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 | 222.020505464709 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -29.02243230766457 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 275.7926719687554 | | | |
| [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) | 297448207.645197 | 297448206.6202 | | | |
| Observation start date | 2007-06-05T16:30:08 | 2007-06-05T16:30:06 | | | |
| [s] Observation end time (MET) | 297493397.847358 | 297493396.82236 | | | |
| Observation end date | 2007-06-06T05:03:18 | 2007-06-06T05:03:16 | | | |
| 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) | 2012.04.26 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.7938233835697 |

A.2 Comments