

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 56413 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 22 2012

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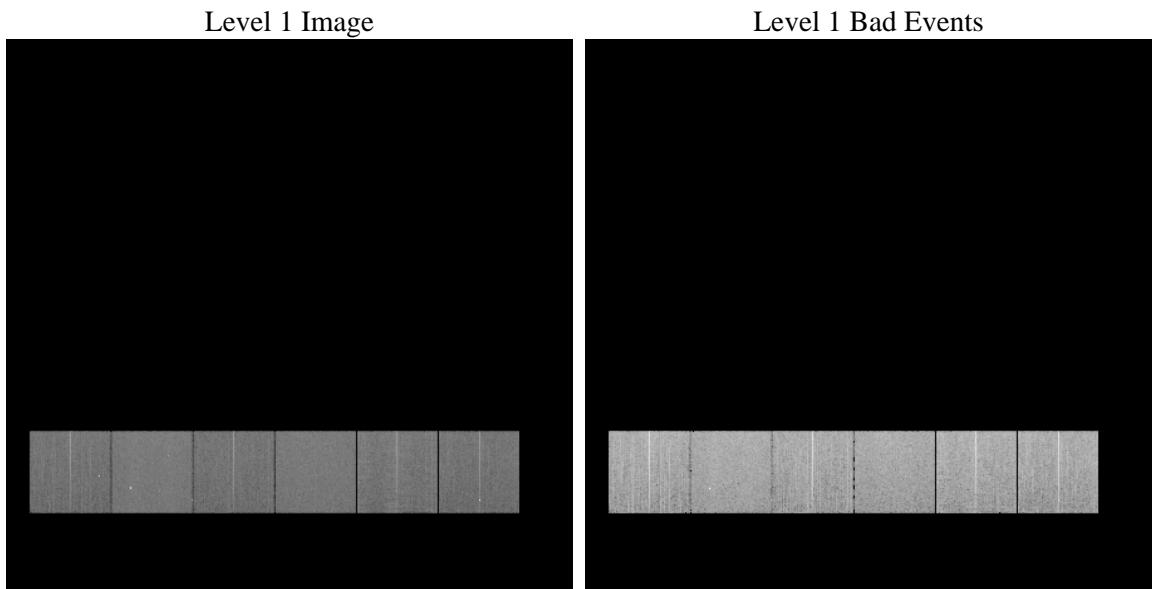
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 56413 | 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 | 140.01670246112 | Nominal RA [deg] |
| dec_nom | 5.9765722535925 | Nominal Dec [deg] |
| roll_nom | 272.50222533947 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8457.5999685526 | Sum of GTIs [s] |
| livetime | 8350.5047451955 | Livetime [s] |
| ontime4 | 8457.5999685526 | Sum of GTIs [s] |
| ontime5 | 8457.5999685526 | Sum of GTIs [s] |
| ontime6 | 8457.5999685526 | Sum of GTIs [s] |
| ontime7 | 8457.5999685526 | Sum of GTIs [s] |
| ontime8 | 8457.5999685526 | Sum of GTIs [s] |
| ontime9 | 8457.5999685526 | Sum of GTIs [s] |
| l2events | 460414 | Number of level 2 events |

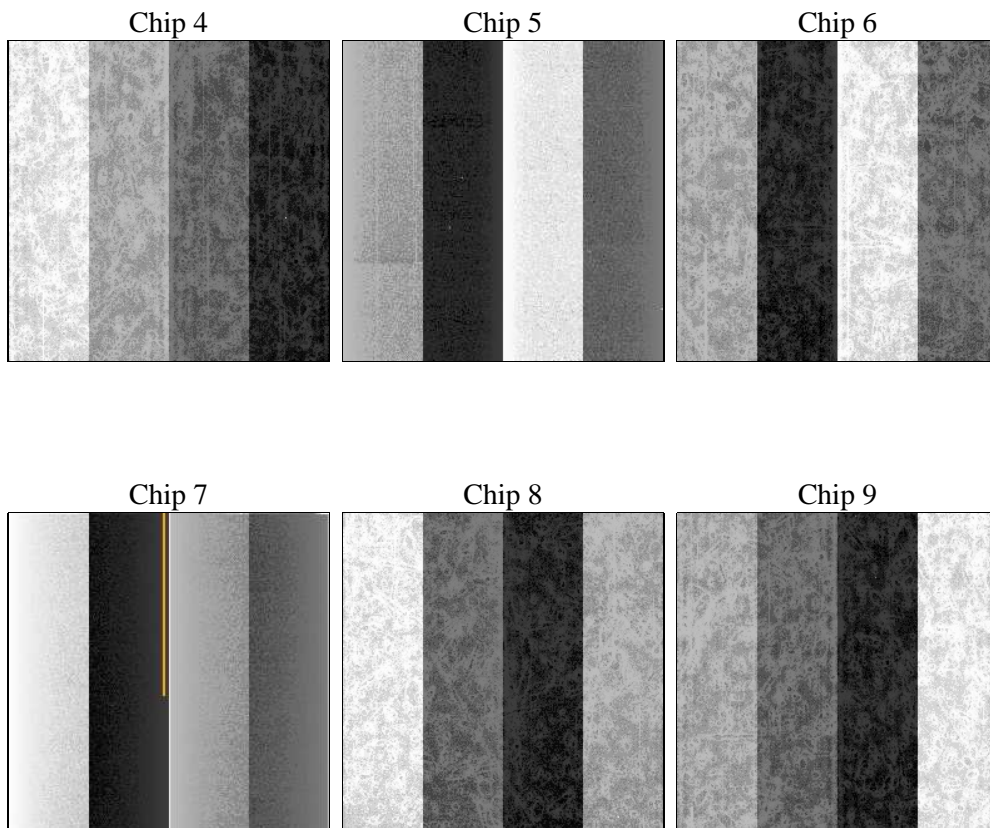
2 OBI

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 | 8457.5999685526 | Sum of GTIs [s] |
| caldsver | 4.4.10 | | ontime4 | 8457.5999685526 | Sum of GTIs [s] |
| date | 2012-06-22T06:48:47 | Date and time of file creation | ontime5 | 8457.5999685526 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 8457.5999685526 | Sum of GTIs [s] |
| | | | ontime7 | 8457.5999685526 | Sum of GTIs [s] |
| | | | ontime8 | 8457.5999685526 | Sum of GTIs [s] |
| | | | ontime9 | 8457.5999685526 | Sum of GTIs [s] |
| | | | l1events | 978733 | 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 | 149756 | 183596 | 147915 | 176584 | 168252 | 152630 | grade 0 events | 38799 | 14075 | 36311 | 18657 | 40993 | 35795 |
| rejected events | 82331 | 75528 | 77995 | 70781 | 83613 | 79553 | | 25% | 7% | 24% | 10% | 24% | 23% |
| rejected % | 54% | 41% | 52% | 40% | 49% | 52% | grade 1 events | 362 | 265 | 236 | 155 | 254 | 252 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 10496 | 38650 | 12579 | 22950 | 15781 | 17305 |
| | | | | | | | | 7% | 21% | 8% | 12% | 9% | 11% |
| | | | | | | | grade 3 events | 4758 | 4943 | 4629 | 9688 | 6378 | 4393 |
| | | | | | | | | 3% | 2% | 3% | 5% | 3% | 2% |
| | | | | | | | grade 4 events | 4642 | 4434 | 4491 | 9391 | 6237 | 4604 |
| | | | | | | | | 3% | 2% | 3% | 5% | 3% | 3% |
| | | | | | | | grade 5 events | 4342 | 9854 | 4561 | 11013 | 5814 | 5064 |
| | | | | | | | | 2% | 5% | 3% | 6% | 3% | 3% |
| | | | | | | | grade 6 events | 8730 | 45966 | 11910 | 45117 | 15250 | 10980 |
| | | | | | | | | 5% | 25% | 8% | 25% | 9% | 7% |
| | | | | | | | grade 7 events | 77627 | 65409 | 73198 | 59613 | 77545 | 74237 |
| | | | | | | | | 51% | 35% | 49% | 33% | 46% | 48% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-456789 | ACIS-456789 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 140.0167024611216 |
| [deg] Pointing Dec | 0 | 5.976572253592515 |
| [deg] Pointing Roll | 0.0 | 272.502225339474 |
| [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) | 384088613.72256 | 384088612.69756 |
| Observation start date | 2010-03-04T11:16:54 | 2010-03-04T11:16:52 |
| [s] Observation end time (MET) | 384098791.973076 | 384098790.94808 |
| Observation end date | 2010-03-04T14:06:32 | 2010-03-04T14:06:30 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| Number of optional ACIS chips dropped | 0 | 0 |
| On-chip summing requested | N | N |
| Subarray requested | NONE | NONE |
| Alternating exposures requested | N | N |
| [s] Primary exposure time | 3.2 | 3.2 |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.06.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.4575999685526 |

A.2 Comments