

V&V Reference Report

L2 ASCDS Version : 8.4.3

Observation 58912 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 4 2012

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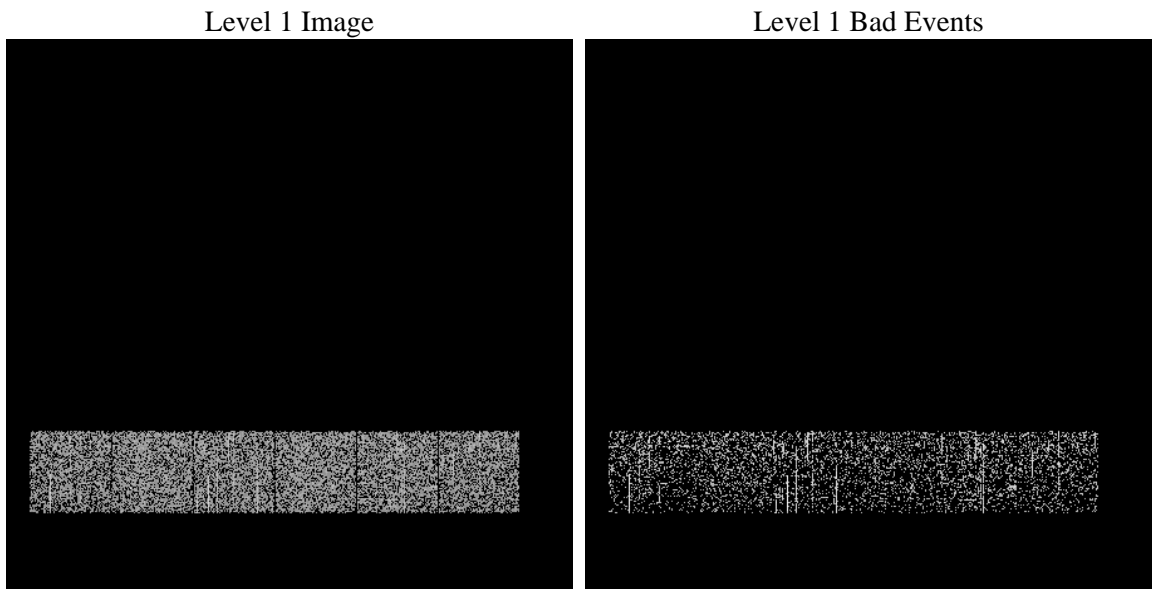
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58912 | 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 | 30.177453446832 | Nominal RA [deg] |
| dec_nom | 32.021226834121 | Nominal Dec [deg] |
| roll_nom | 99.151527129332 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 174.9305036962 | Sum of GTIs [s] |
| livetime | 172.7154283279 | Livetime [s] |
| ontime4 | 174.8073836863 | Sum of GTIs [s] |
| ontime5 | 174.8894636929 | Sum of GTIs [s] |
| ontime6 | 174.8484236896 | Sum of GTIs [s] |
| ontime7 | 174.9305036962 | Sum of GTIs [s] |
| ontime8 | 174.76634371281 | Sum of GTIs [s] |
| ontime9 | 174.9715436995 | Sum of GTIs [s] |
| l2events | 19407 | Number of level 2 events |

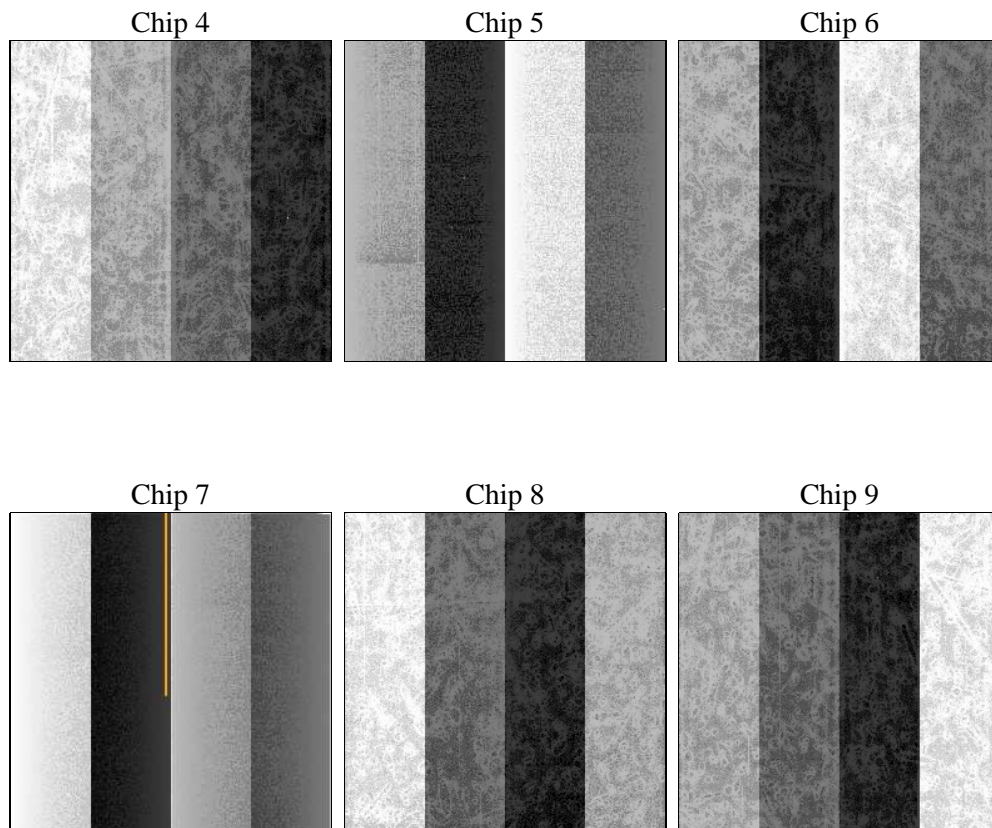
2 OBI

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 | 8.4.3.1 | Processing system revision | ontime | 174.9305036962 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 174.8073836863 | Sum of GTIs [s] |
| date | 2012-04-04T05:49:57 | Date and time of file creation | ontime5 | 174.8894636929 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 174.8484236896 | Sum of GTIs [s] |
| | | | ontime7 | 174.9305036962 | Sum of GTIs [s] |
| | | | ontime8 | 174.76634371281 | Sum of GTIs [s] |
| | | | ontime9 | 174.9715436995 | Sum of GTIs [s] |
| | | | l1events | 30565 | Number of level 1 events |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 4794 | 5246 | 5365 | 5146 | 5298 | 4716 |
| rejected events | 1685 | 1436 | 1974 | 1231 | 1818 | 1566 |
| rejected % | 35% | 27% | 36% | 23% | 34% | 33% |

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 1827 | 810 | 1864 | 869 | 1823 | 1756 |
| | 38% | 15% | 34% | 16% | 34% | 37% |
| grade 1 events | 15 | 18 | 14 | 8 | 17 | 16 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 473 | 1351 | 577 | 869 | 647 | 503 |
| | 9% | 25% | 10% | 16% | 12% | 10% |
| grade 3 events | 206 | 218 | 208 | 398 | 253 | 196 |
| | 4% | 4% | 3% | 7% | 4% | 4% |
| grade 4 events | 188 | 208 | 199 | 366 | 223 | 209 |
| | 3% | 3% | 3% | 7% | 4% | 4% |
| grade 5 events | 80 | 196 | 105 | 223 | 108 | 98 |
| | 1% | 3% | 1% | 4% | 2% | 2% |
| grade 6 events | 415 | 1223 | 543 | 1413 | 534 | 486 |
| | 8% | 23% | 10% | 27% | 10% | 10% |
| grade 7 events | 1590 | 1222 | 1855 | 1000 | 1693 | 1452 |
| | 33% | 23% | 34% | 19% | 31% | 30% |

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 | 30.1774534468319 |
| [deg] Pointing Dec | 0 | 32.02122683412122 |
| [deg] Pointing Roll | 0.0 | 99.15152712933191 |
| [mm] SIM focus pos | -0.684267 | -0.7809083437167272 |
| [mm] SIM defocus | 0 | 0.7524282956875696 |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 267754220.690388 | 267754219.6654 |
| Observation start date | 2006-06-27T00:10:21 | 2006-06-27T00:10:19 |
| [s] Observation end time (MET) | 267768107.391037 | 267768106.36605 |
| Observation end date | 2006-06-27T04:01:47 | 2006-06-27T04:01:46 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| 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 | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.04.05 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 0.1749305036962 |

A.2 Comments