

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60344 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 12 2012

Contents

| | | |
|----------|-------------------------------|----------|
| 1 | Front | 2 |
| 2 | OBI | 3 |
| 2.1 | OBI | 3 |
| 2.1.1 | Images | 3 |
| 2.1.2 | Bias | 3 |
| 2.1.3 | Parameters | 4 |
| 2.1.4 | Events | 4 |
| 2.2 | Compared Parameters | 5 |
| 2.3 | Star Slots | 6 |
| 2.4 | FID Slots | 6 |
| A | Summary | 7 |
| A.1 | Status | 7 |
| A.2 | Comments | 7 |

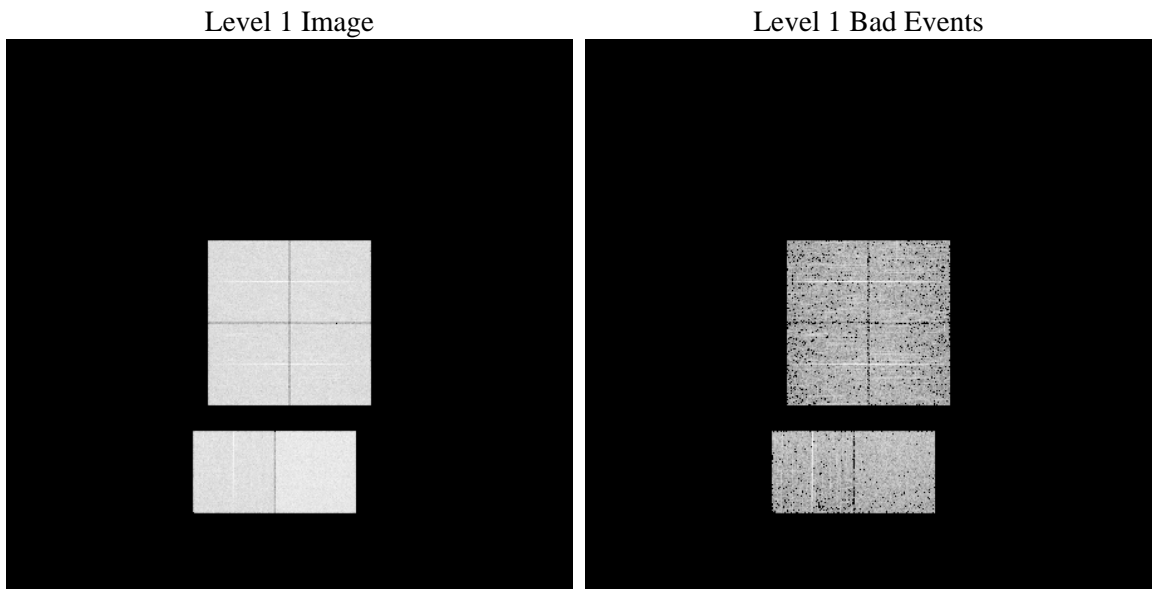
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 60344 | Observation id |
| title | ACIS-012367 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 | 138.01656572902 | Nominal RA [deg] |
| dec_nom | 3.9766647636235 | Nominal Dec [deg] |
| roll_nom | 272.41181419024 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 3887.1391471028 | Sum of GTIs [s] |
| livetime | 3837.917850668 | Livetime [s] |
| ontime0 | 2859.7090680897 | Sum of GTIs [s] |
| ontime1 | 2898.5595327318 | Sum of GTIs [s] |
| ontime2 | 2772.1203520298 | Sum of GTIs [s] |
| ontime3 | 2839.131369859 | Sum of GTIs [s] |
| ontime6 | 2966.5382665098 | Sum of GTIs [s] |
| ontime7 | 3887.1391471028 | Sum of GTIs [s] |
| l2events | 572482 | Number of level 2 events |

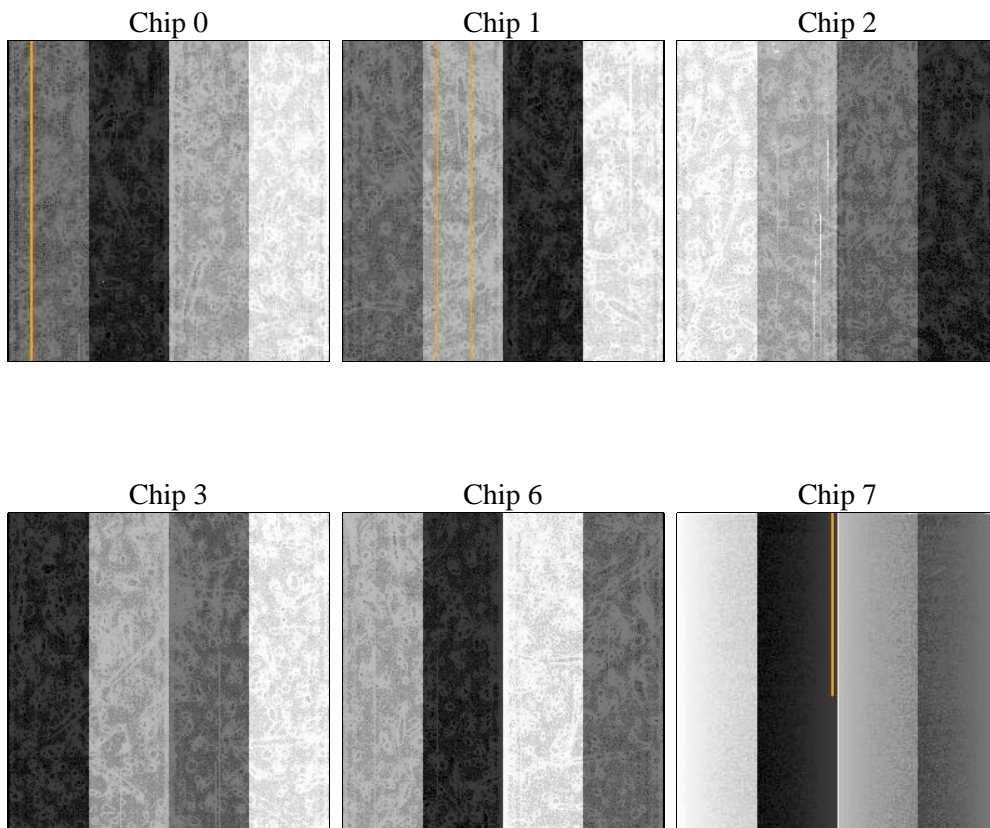
2 OBI

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 | 3887.1391471028 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime0 | 2859.7090680897 | Sum of GTIs [s] |
| date | 2012-11-12T21:50:48 | Date and time of file creation | ontime1 | 2898.5595327318 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime2 | 2772.1203520298 | Sum of GTIs [s] |
| | | | ontime3 | 2839.131369859 | Sum of GTIs [s] |
| | | | ontime6 | 2966.5382665098 | Sum of GTIs [s] |
| | | | ontime7 | 3887.1391471028 | Sum of GTIs [s] |
| | | | l1events | 721209 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 110562 | 112701 | 109418 | 111616 | 120128 | 156784 | grade 0 events | 50418 | 51084 | 50747 | 52000 | 54337 | 32770 |
| rejected events | 19178 | 19723 | 18941 | 19638 | 20884 | 22503 | | 45% | 45% | 46% | 46% | 45% | 20% |
| rejected % | 17% | 17% | 17% | 17% | 17% | 14% | grade 1 events | 300 | 245 | 307 | 308 | 261 | 89 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 16013 | 16555 | 15323 | 15583 | 17092 | 29488 |
| | | | | | | | | 14% | 14% | 14% | 13% | 14% | 18% |
| | | | | | | | grade 3 events | 5927 | 5839 | 5761 | 6008 | 6184 | 13658 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 4 events | 6039 | 5965 | 5915 | 5995 | 6200 | 13525 |
| | | | | | | | | 5% | 5% | 5% | 5% | 5% | 8% |
| | | | | | | | grade 5 events | 1269 | 1210 | 1164 | 1340 | 1424 | 4140 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 2% |
| | | | | | | | grade 6 events | 13214 | 13737 | 12820 | 12605 | 15739 | 45162 |
| | | | | | | | | 11% | 12% | 11% | 11% | 13% | 28% |
| | | | | | | | grade 7 events | 17382 | 18066 | 17381 | 17777 | 18891 | 17952 |
| | | | | | | | | 15% | 16% | 15% | 15% | 15% | 11% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 138.016565729023 |
| [deg] Pointing Dec | 0 | 3.976664763623501 |
| [deg] Pointing Roll | 0.0 | 272.4118141902394 |
| [mm] SIM focus pos | -0.782348 | -0.6828225247311905 |
| [mm] SIM defocus | 0 | 0.8505141146731063 |
| [mm] SIM translation stage pos | -233.592463 | 250.4635187648994 |
| [mm] SIM translation stage offset | 0 | -0.007540371344731511 |
| [s] Observation start time (MET) | 195140353.540202 | 195140352.5155 |
| Observation start date | 2004-03-08T13:39:14 | 2004-03-08T13:39:12 |
| [s] Observation end time (MET) | 195157093.840936 | 195157092.81623 |
| Observation end date | 2004-03-08T18:18:14 | 2004-03-08T18:18:12 |
| 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 | 0.000000 | 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) | 2012.12.20 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 3.8871391471028 |

A.2 Comments