

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60962 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 17 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 |

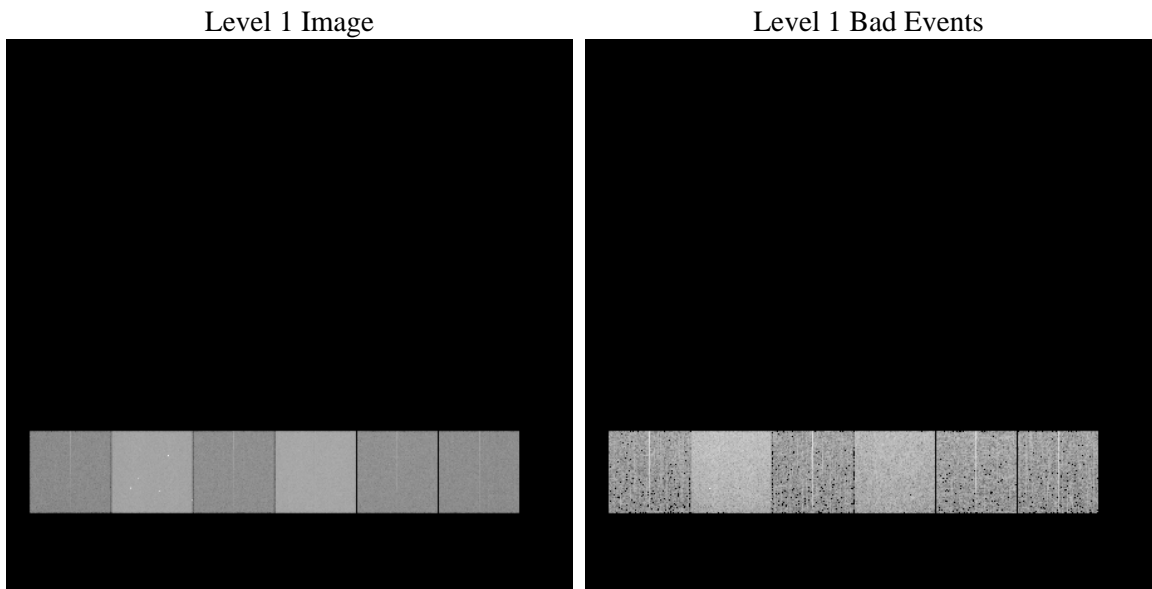
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 60962 | 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 | 42.629457118209 | Nominal RA [deg] |
| dec_nom | -28.887626128104 | Nominal Dec [deg] |
| roll_nom | 352.78249460763 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 8434.486133486 | Sum of GTIs [s] |
| livetime | 8327.683591426 | Livetime [s] |
| ontime4 | 3143.8044085205 | Sum of GTIs [s] |
| ontime5 | 8434.4450934827 | Sum of GTIs [s] |
| ontime6 | 3403.085924536 | Sum of GTIs [s] |
| ontime7 | 8434.486133486 | Sum of GTIs [s] |
| ontime8 | 3510.0400448143 | Sum of GTIs [s] |
| ontime9 | 3335.025359571 | Sum of GTIs [s] |
| l2events | 1290981 | Number of level 2 events |

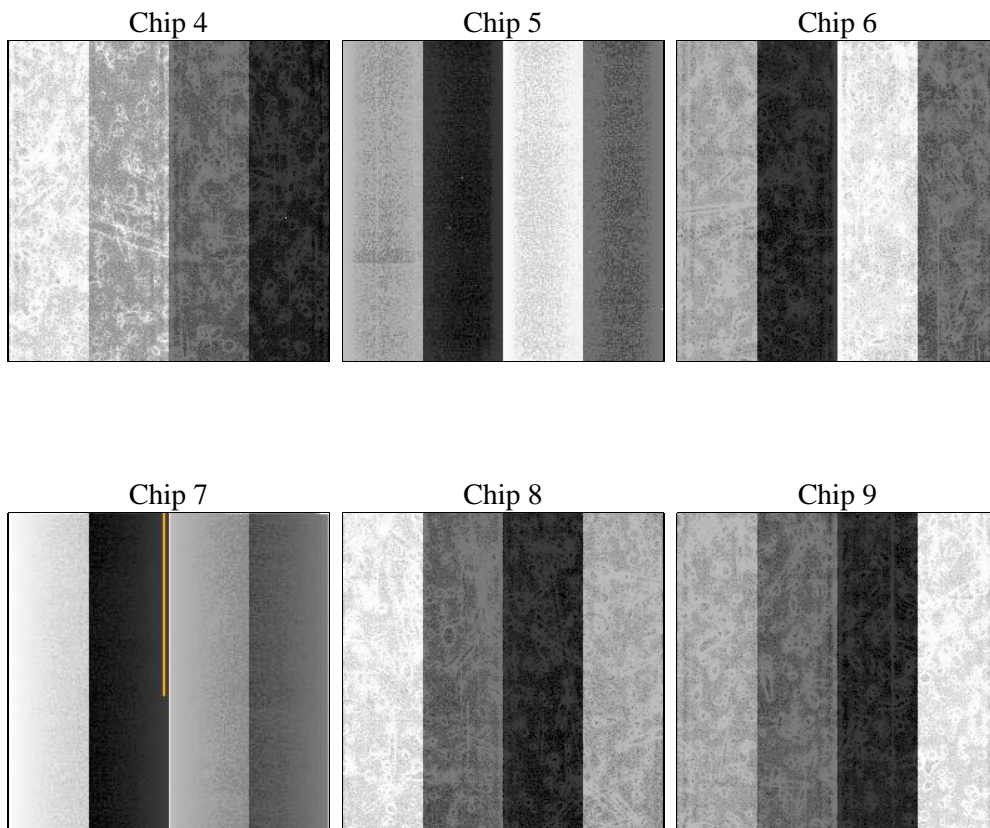
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

| | | | | | |
|----------|---------------------|--------------------------------|----------------|-----------------|---|
| obi_num | 1 | Obi number | sched_exp_time | 0.0 | [s] Scheduled observation exposure time |
| ascdsver | 8.4.5 | Processing system revision | ontime | 8434.486133486 | Sum of GTIs [s] |
| caldsver | 4.5.2 | | ontime4 | 3143.8044085205 | Sum of GTIs [s] |
| date | 2012-10-17T11:19:02 | Date and time of file creation | ontime5 | 8434.4450934827 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 3403.085924536 | Sum of GTIs [s] |
| | | | ontime7 | 8434.486133486 | Sum of GTIs [s] |
| | | | ontime8 | 3510.0400448143 | Sum of GTIs [s] |
| | | | ontime9 | 3335.025359571 | Sum of GTIs [s] |
| | | | l1events | 1542400 | 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 | 158884 | 401030 | 182461 | 435814 | 191149 | 173062 | grade 0 events | 78954 | 82742 | 86706 | 98913 | 91366 | 83013 |
| rejected events | 22763 | 55305 | 23202 | 42317 | 25461 | 23086 | | 49% | 20% | 47% | 22% | 47% | 47% |
| rejected % | 14% | 13% | 12% | 9% | 13% | 13% | grade 1 events | 532 | 356 | 446 | 270 | 464 | 463 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 21740 | 124021 | 27449 | 86738 | 28622 | 25723 |
| | | | | | | | | 13% | 30% | 15% | 19% | 14% | 14% |
| | | | | | | | grade 3 events | 9011 | 21467 | 9906 | 40056 | 10635 | 9455 |
| | | | | | | | | 5% | 5% | 5% | 9% | 5% | 5% |
| | | | | | | | grade 4 events | 9039 | 21104 | 9774 | 39091 | 10841 | 9514 |
| | | | | | | | | 5% | 5% | 5% | 8% | 5% | 5% |
| | | | | | | | grade 5 events | 1592 | 9861 | 1747 | 8481 | 1963 | 1708 |
| | | | | | | | | 1% | 2% | 0% | 1% | 1% | 0% |
| | | | | | | | grade 6 events | 17377 | 96522 | 25424 | 128851 | 24224 | 22271 |
| | | | | | | | | 10% | 24% | 13% | 29% | 12% | 12% |
| | | | | | | | grade 7 events | 20639 | 44957 | 21009 | 33414 | 23034 | 20915 |
| | | | | | | | | 12% | 11% | 11% | 7% | 12% | 12% |

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 | 42.62945711820942 |
| [deg] Pointing Dec | 0 | -28.88762612810445 |
| [deg] Pointing Roll | 0.0 | 352.7824946076269 |
| [mm] SIM focus pos | -0.684267 | -1.523540733526241 |
| [mm] SIM defocus | 0 | 0.009795905878055677 |
| [mm] SIM translation stage pos | -190.132523 | 250.4635187648994 |
| [mm] SIM translation stage offset | 0 | -0.007540371344731511 |
| [s] Observation start time (MET) | 153550160.866191 | 153550159.84147 |
| Observation start date | 2002-11-13T04:49:21 | 2002-11-13T04:49:19 |
| [s] Observation end time (MET) | 153574676.817212 | 153574675.79248 |
| Observation end date | 2002-11-13T11:37:57 | 2002-11-13T11:37:55 |
| 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 | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.10.26 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.434486133486 |

A.2 Comments