

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58548 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 19 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 |

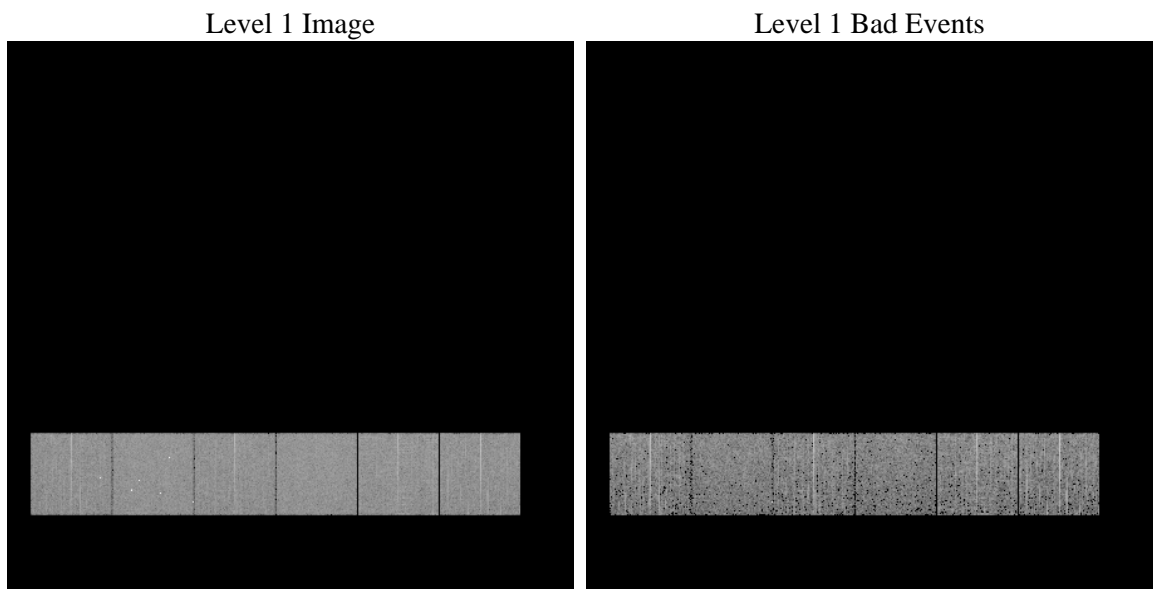
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58548 | 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 | 160.96282635464 | Nominal RA [deg] |
| dec_nom | 36.509903388007 | Nominal Dec [deg] |
| roll_nom | 127.51824694076 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 2675.1999900937 | Sum of GTIs [s] |
| livetime | 2641.3249970071 | Livetime [s] |
| ontime4 | 2675.1999900937 | Sum of GTIs [s] |
| ontime5 | 2675.1999900937 | Sum of GTIs [s] |
| ontime6 | 2675.1999900937 | Sum of GTIs [s] |
| ontime7 | 2675.1999900937 | Sum of GTIs [s] |
| ontime8 | 2675.1999900937 | Sum of GTIs [s] |
| ontime9 | 2675.1999900937 | Sum of GTIs [s] |
| l2events | 267443 | Number of level 2 events |

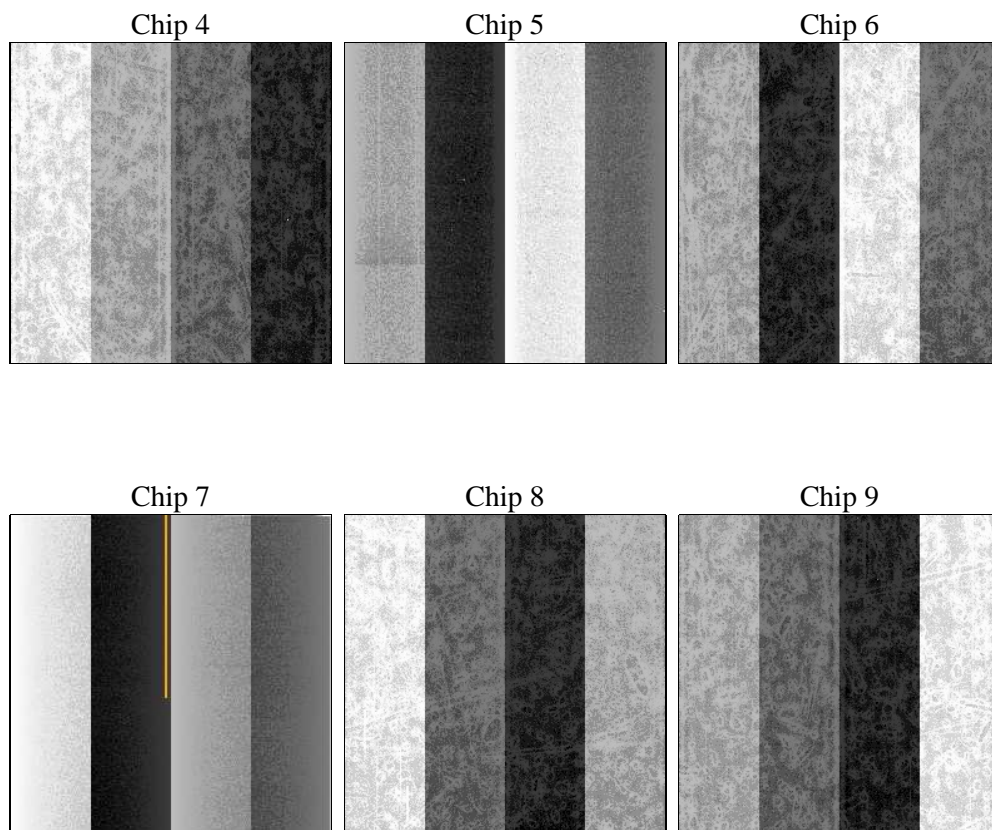
2 OBI

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 | 2675.1999900937 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 2675.1999900937 | Sum of GTIs [s] |
| date | 2012-04-19T15:14:41 | Date and time of file creation | ontime5 | 2675.1999900937 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 2675.1999900937 | Sum of GTIs [s] |
| | | | ontime7 | 2675.1999900937 | Sum of GTIs [s] |
| | | | ontime8 | 2675.1999900937 | Sum of GTIs [s] |
| | | | ontime9 | 2675.1999900937 | Sum of GTIs [s] |
| | | | l1events | 433121 | 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 | 68448 | 76259 | 69839 | 73819 | 74479 | 70277 | grade 0 events | 25249 | 11253 | 24447 | 11627 | 25472 | 24184 |
| rejected events | 25228 | 21998 | 24167 | 19906 | 25623 | 25788 | | 36% | 14% | 35% | 15% | 34% | 34% |
| rejected % | 36% | 28% | 34% | 26% | 34% | 36% | grade 1 events | 248 | 228 | 155 | 47 | 160 | 158 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 6611 | 19308 | 7945 | 11873 | 8965 | 7520 |
| | | | | | | | | 9% | 25% | 11% | 16% | 12% | 10% |
| | | | | | | | grade 3 events | 2965 | 2629 | 2926 | 5266 | 3273 | 2977 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 2970 | 2625 | 2870 | 5073 | 3262 | 2782 |
| | | | | | | | | 4% | 3% | 4% | 6% | 4% | 3% |
| | | | | | | | grade 5 events | 1228 | 3335 | 1354 | 3290 | 1706 | 1527 |
| | | | | | | | | 1% | 4% | 1% | 4% | 2% | 2% |
| | | | | | | | grade 6 events | 5486 | 18446 | 7484 | 20074 | 7943 | 7026 |
| | | | | | | | | 8% | 24% | 10% | 27% | 10% | 9% |
| | | | | | | | grade 7 events | 23691 | 18435 | 22658 | 16569 | 23698 | 24103 |
| | | | | | | | | 34% | 24% | 32% | 22% | 31% | 34% |

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 | 160.9628263546373 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 36.50990338800678 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 127.5182469407601 | | | |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.8505141146731063 | | | |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 286943697.594761 | 286943696.56977 | | | |
| Observation start date | 2007-02-04T02:34:58 | 2007-02-04T02:34:56 | | | |
| [s] Observation end time (MET) | 286958914.745483 | 286958913.72049 | | | |
| Observation end date | 2007-02-04T06:48:35 | 2007-02-04T06:48:33 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2012.04.20 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 2.6751999900937 |

A.2 Comments