

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 58554 - 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 |

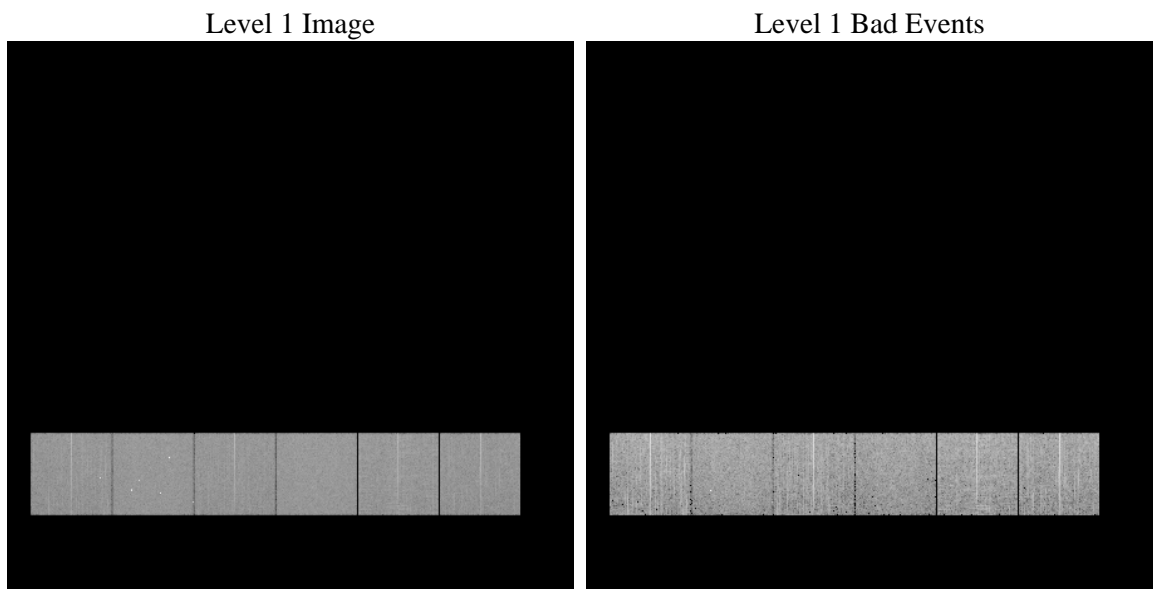
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58554 | 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 | 140.96543051597 | Nominal RA [deg] |
| dec_nom | 33.998131945235 | Nominal Dec [deg] |
| roll_nom | 150.81135280258 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 5551.9999793768 | Sum of GTIs [s] |
| livetime | 5481.6972126249 | Livetime [s] |
| ontime4 | 5551.9529953003 | Sum of GTIs [s] |
| ontime5 | 5551.9999793768 | Sum of GTIs [s] |
| ontime6 | 5548.753164649 | Sum of GTIs [s] |
| ontime7 | 5551.9999793768 | Sum of GTIs [s] |
| ontime8 | 5551.911955297 | Sum of GTIs [s] |
| ontime9 | 5551.9999793768 | Sum of GTIs [s] |
| l2events | 541748 | Number of level 2 events |

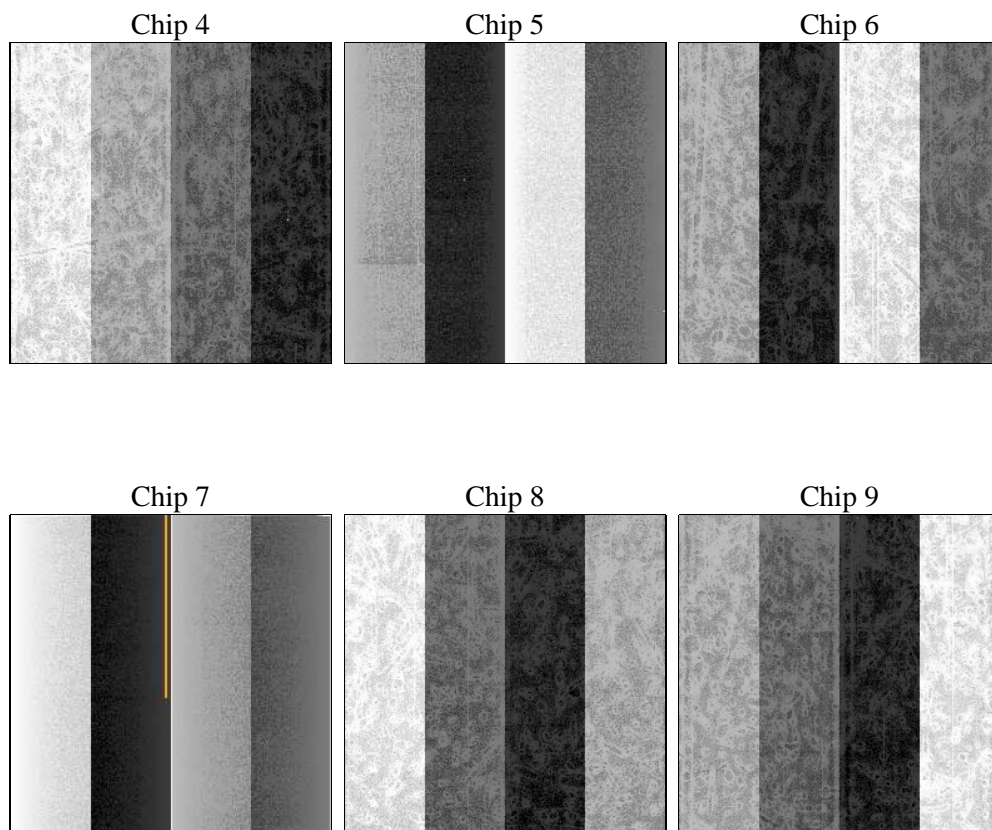
2 OBI

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 | 5551.9999793768 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 5551.9529953003 | Sum of GTIs [s] |
| date | 2012-04-19T04:51:27 | Date and time of file creation | ontime5 | 5551.9999793768 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 5548.753164649 | Sum of GTIs [s] |
| | | | ontime7 | 5551.9999793768 | Sum of GTIs [s] |
| | | | ontime8 | 5551.911955297 | Sum of GTIs [s] |
| | | | ontime9 | 5551.9999793768 | Sum of GTIs [s] |
| | | | l1events | 868918 | 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 | 139155 | 150284 | 140052 | 151643 | 150393 | 137391 | grade 0 events | 50238 | 21169 | 49229 | 23937 | 52047 | 48436 |
| rejected events | 51887 | 44305 | 47818 | 41051 | 50949 | 48117 | | 36% | 14% | 35% | 15% | 34% | 35% |
| rejected % | 37% | 29% | 34% | 27% | 33% | 35% | grade 1 events | 432 | 164 | 302 | 111 | 352 | 334 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 13919 | 37855 | 16217 | 23851 | 17870 | 15466 |
| | | | | | | | | 10% | 25% | 11% | 15% | 11% | 11% |
| | | | | | | | grade 3 events | 5896 | 5315 | 6042 | 10722 | 6916 | 5805 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 4 events | 5955 | 5320 | 5770 | 10785 | 6717 | 5924 |
| | | | | | | | | 4% | 3% | 4% | 7% | 4% | 4% |
| | | | | | | | grade 5 events | 2653 | 6361 | 2851 | 6806 | 3510 | 2996 |
| | | | | | | | | 1% | 4% | 2% | 4% | 2% | 2% |
| | | | | | | | grade 6 events | 11304 | 36382 | 15036 | 41357 | 15937 | 13686 |
| | | | | | | | | 8% | 24% | 10% | 27% | 10% | 9% |
| | | | | | | | grade 7 events | 48758 | 37718 | 44605 | 34074 | 47044 | 44744 |
| | | | | | | | | 35% | 25% | 31% | 22% | 31% | 32% |

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 | 140.9654305159704 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | 33.99813194523474 | [s] Primary exposure time | 3.2 | 3.2 |
| [deg] Pointing Roll | 0.0 | 150.8113528025847 | | | |
| [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) | 286483021.572912 | 286483020.54791 | | | |
| Observation start date | 2007-01-29T18:37:02 | 2007-01-29T18:37:00 | | | |
| [s] Observation end time (MET) | 286502000.473812 | 286501999.44881 | | | |
| Observation end date | 2007-01-29T23:53:20 | 2007-01-29T23:53:19 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.04.19 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.5519999793768 |

A.2 Comments