

V&V Reference Report

L2 ASCDS Version : 10.3.3

Observation 51896 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : May 11 2015

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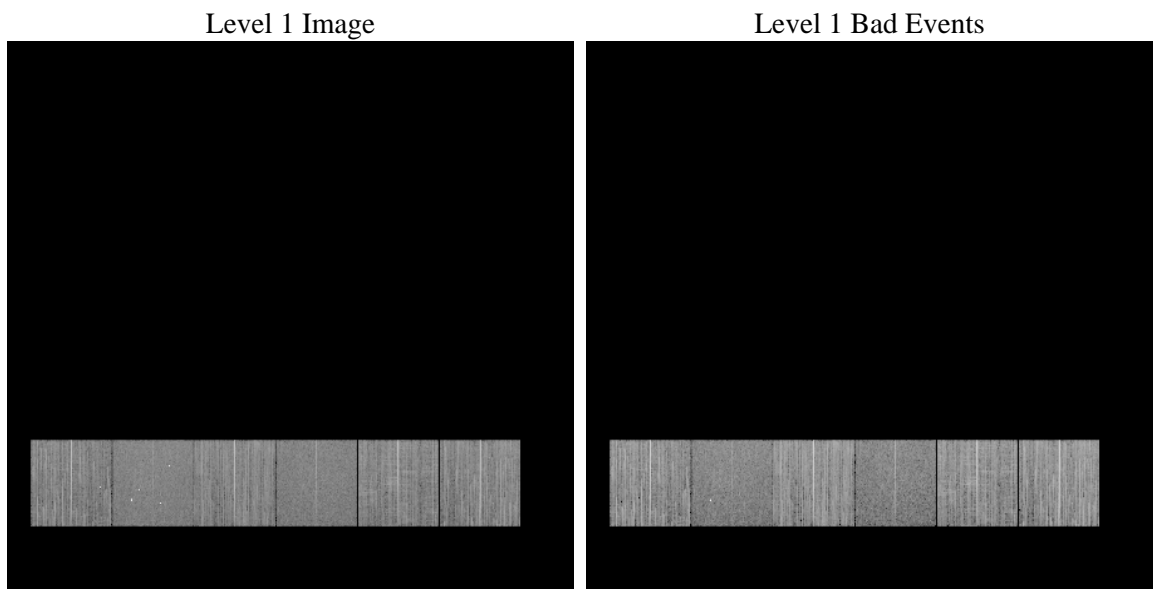
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51896 | 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 | 201.42538000226 | Nominal RA [deg] |
| dec_nom | -28.018252171502 | Nominal Dec [deg] |
| roll_nom | 288.10753447057 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 7398.4001102448 | Sum of GTIs [s] |
| livetime | 7304.7171132671 | Livetime [s] |
| ontime4 | 7398.4001102448 | Sum of GTIs [s] |
| ontime5 | 7398.4001102448 | Sum of GTIs [s] |
| ontime6 | 7398.4001102448 | Sum of GTIs [s] |
| ontime7 | 7398.4001102448 | Sum of GTIs [s] |
| ontime8 | 7398.4001102448 | Sum of GTIs [s] |
| ontime9 | 7398.4001102448 | Sum of GTIs [s] |
| l2events | 156107 | Number of level 2 events |

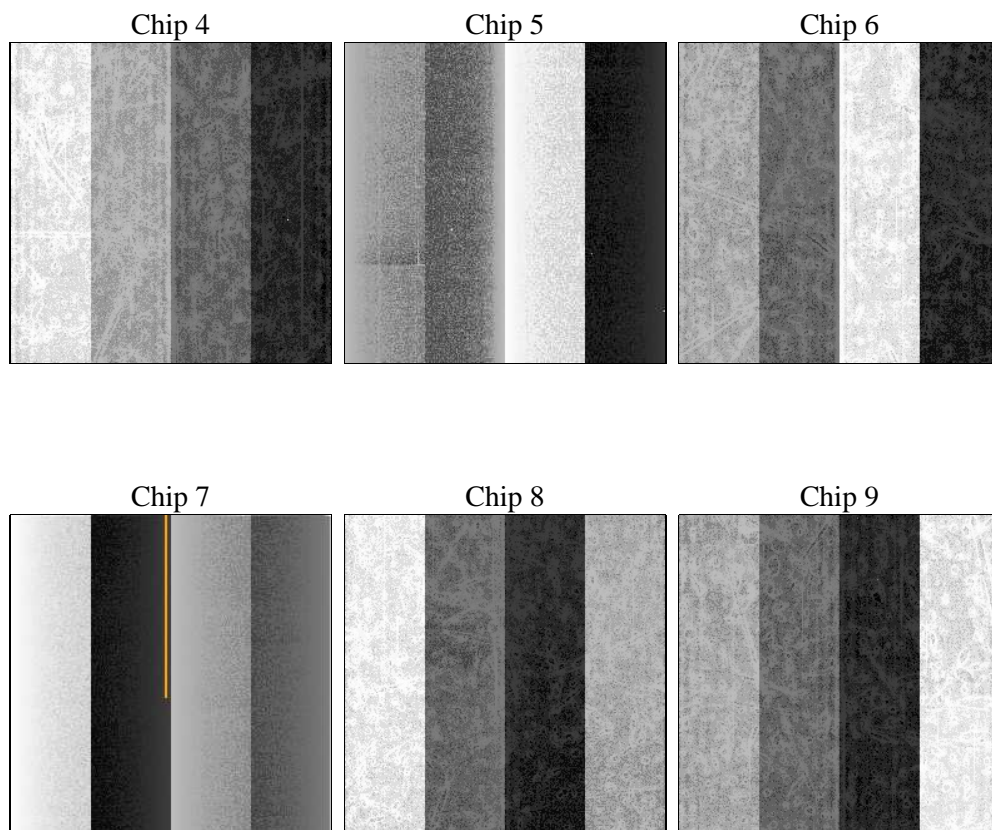
2 OBI

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 | 10.3.3 | Processing system revision | ontime | 7398.4001102448 | Sum of GTIs [s] |
| caldsver | 4.6.7 | | ontime4 | 7398.4001102448 | Sum of GTIs [s] |
| date | 2015-05-11T16:00:13 | Date and time of file creation | ontime5 | 7398.4001102448 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime6 | 7398.4001102448 | Sum of GTIs [s] |
| | | | ontime7 | 7398.4001102448 | Sum of GTIs [s] |
| | | | ontime8 | 7398.4001102448 | Sum of GTIs [s] |
| | | | ontime9 | 7398.4001102448 | Sum of GTIs [s] |
| | | | l1events | 702319 | 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 | 116975 | 109928 | 124502 | 96623 | 123270 | 131021 | grade 0 events | 11116 | 8494 | 9732 | 5110 | 11783 | 9541 |
| rejected events | 96397 | 60505 | 104194 | 55809 | 95614 | 111115 | | 9% | 7% | 7% | 5% | 9% | 7% |
| rejected % | 82% | 55% | 83% | 57% | 77% | 84% | grade 1 events | 89 | 124 | 54 | 66 | 77 | 56 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 3803 | 16854 | 4213 | 10092 | 5780 | 4094 |
| | | | | | | | | 3% | 15% | 3% | 10% | 4% | 3% |
| | | | | | | | grade 3 events | 1429 | 1444 | 1275 | 3156 | 2286 | 1457 |
| | | | | | | | | 1% | 1% | 1% | 3% | 1% | 1% |
| | | | | | | | grade 4 events | 1460 | 1444 | 1349 | 3171 | 2214 | 1349 |
| | | | | | | | | 1% | 1% | 1% | 3% | 1% | 1% |
| | | | | | | | grade 5 events | 2629 | 5007 | 2596 | 6132 | 3558 | 2922 |
| | | | | | | | | 2% | 4% | 2% | 6% | 2% | 2% |
| | | | | | | | grade 6 events | 2770 | 21187 | 3739 | 19285 | 5593 | 3465 |
| | | | | | | | | 2% | 19% | 3% | 19% | 4% | 2% |
| | | | | | | | grade 7 events | 93679 | 55374 | 101544 | 49611 | 91979 | 108137 |
| | | | | | | | | 80% | 50% | 81% | 51% | 74% | 82% |

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 | Number of optional ACIS chips dropped | 0 | 0 |
| Observation mode | SECONDARY | SECONDARY | On-chip summing requested | N | N |
| [deg] Pointing RA | 0 | 201.4253800022586 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -28.01825217150182 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 288.1075344705666 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -1.428180813131781 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.1051558262725154 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 547692232.867846 | 547692231.84285 | | | |
| Observation start date | 2015-05-11T00:43:53 | 2015-05-11T00:43:51 | | | |
| [s] Observation end time (MET) | 547701351.268358 | 547701350.24336 | | | |
| Observation end date | 2015-05-11T03:15:51 | 2015-05-11T03:15:50 | | | |
| 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) | 2015.05.11 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.3984001102448 |

A.2 Comments