

V&V Reference Report

L2 ASCDS Version : 8.4.4

Observation 57214 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Jun 4 2012

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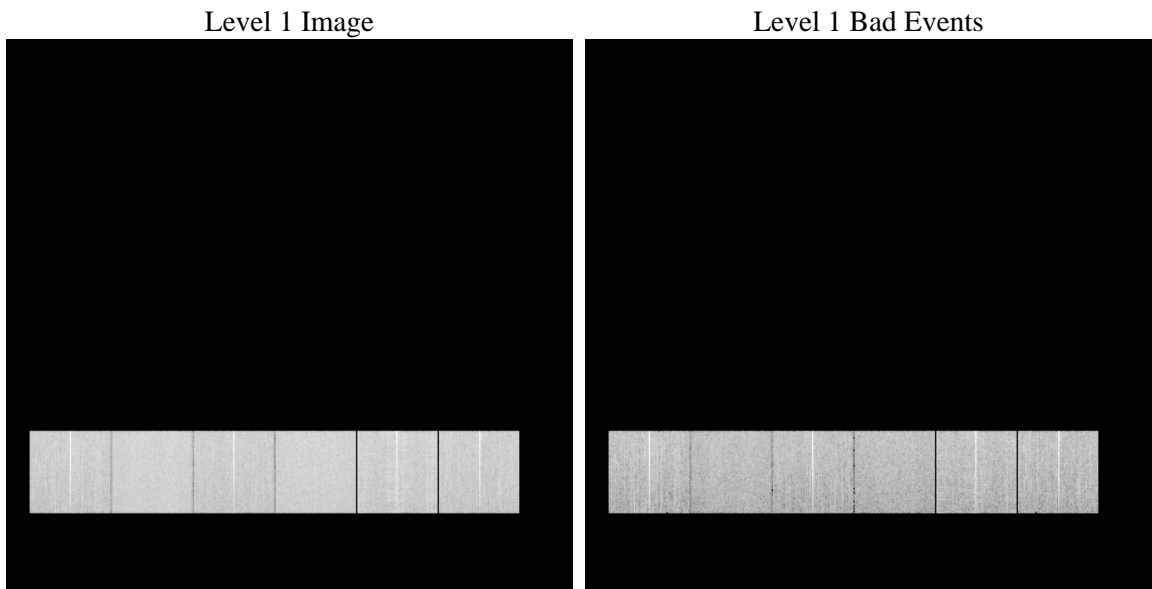
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 57214 | 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 | 202.00610376114 | Nominal RA [deg] |
| dec_nom | -19.971902721372 | Nominal Dec [deg] |
| roll_nom | 45.551002407982 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 8393.599968791 | Sum of GTIs [s] |
| livetime | 8287.315151967 | Livetime [s] |
| ontime4 | 8390.3589883447 | Sum of GTIs [s] |
| ontime5 | 8393.599968791 | Sum of GTIs [s] |
| ontime6 | 8393.599968791 | Sum of GTIs [s] |
| ontime7 | 8393.599968791 | Sum of GTIs [s] |
| ontime8 | 8393.599968791 | Sum of GTIs [s] |
| ontime9 | 8393.599968791 | Sum of GTIs [s] |
| l2events | 544150 | Number of level 2 events |

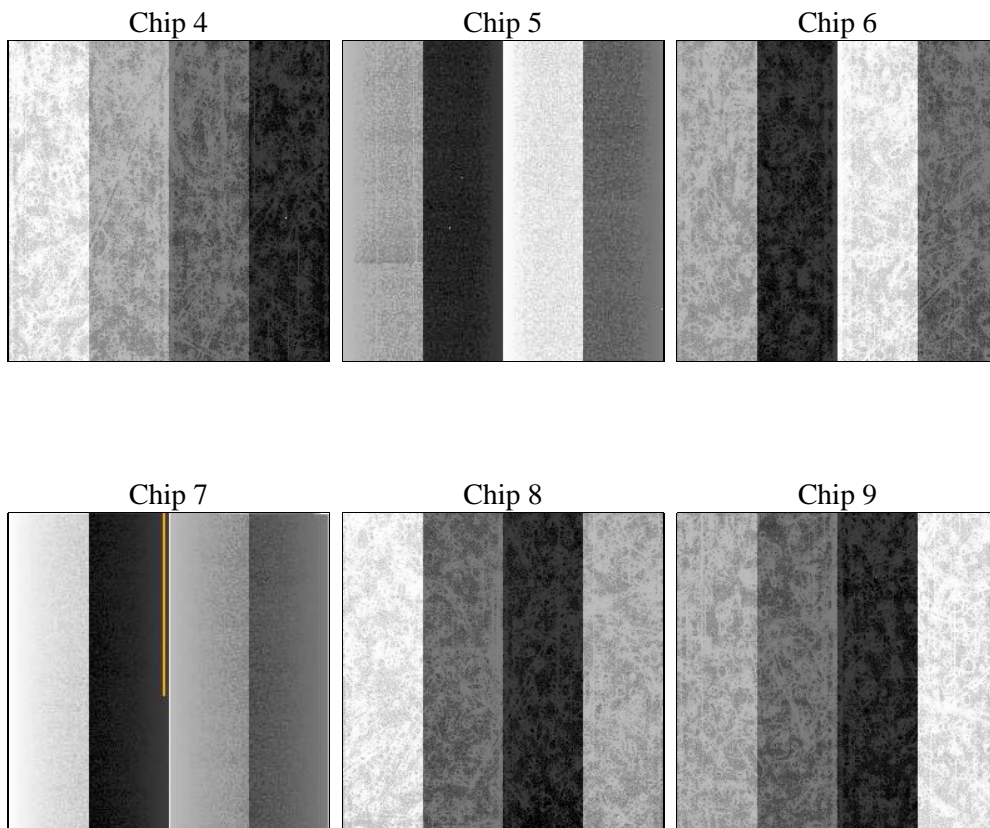
2 OBI

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 | 8393.599968791 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime4 | 8390.3589883447 | Sum of GTIs [s] |
| date | 2012-06-03T08:00:42 | Date and time of file creation | ontime5 | 8393.599968791 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime6 | 8393.599968791 | Sum of GTIs [s] |
| | | | ontime7 | 8393.599968791 | Sum of GTIs [s] |
| | | | ontime8 | 8393.599968791 | Sum of GTIs [s] |
| | | | ontime9 | 8393.599968791 | Sum of GTIs [s] |
| | | | l1events | 1089454 | 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 | 170948 | 197238 | 168799 | 195653 | 189447 | 167369 | grade 0 events | 45753 | 15663 | 44875 | 22317 | 49088 | 44548 |
| rejected events | 91118 | 77612 | 83440 | 74571 | 90424 | 84459 | | 26% | 7% | 26% | 11% | 25% | 26% |
| rejected % | 53% | 39% | 49% | 38% | 47% | 50% | grade 1 events | 470 | 218 | 317 | 189 | 386 | 360 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 12683 | 44320 | 15614 | 26591 | 18541 | 14626 |
| | | | | | | | | 7% | 22% | 9% | 13% | 9% | 8% |
| | | | | | | | grade 3 events | 5712 | 5126 | 5573 | 11291 | 7262 | 5541 |
| | | | | | | | | 3% | 2% | 3% | 5% | 3% | 3% |
| | | | | | | | grade 4 events | 5601 | 5120 | 5573 | 11100 | 7169 | 5588 |
| | | | | | | | | 3% | 2% | 3% | 5% | 3% | 3% |
| | | | | | | | grade 5 events | 4369 | 10021 | 4608 | 11843 | 6016 | 5032 |
| | | | | | | | | 2% | 5% | 2% | 6% | 3% | 3% |
| | | | | | | | grade 6 events | 10584 | 50159 | 14278 | 50641 | 17634 | 13135 |
| | | | | | | | | 6% | 25% | 8% | 25% | 9% | 7% |
| | | | | | | | grade 7 events | 85776 | 66611 | 77961 | 61681 | 83351 | 78539 |
| | | | | | | | | 50% | 33% | 46% | 31% | 43% | 46% |

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 | 202.0061037611359 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -19.97190272137176 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 45.5510024079821 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 354386793.631205 | 354386792.60622 | | | |
| Observation start date | 2009-03-25T16:46:34 | 2009-03-25T16:46:32 | | | |
| [s] Observation end time (MET) | 354398638.531793 | 354398637.50681 | | | |
| Observation end date | 2009-03-25T20:03:59 | 2009-03-25T20:03:57 | | | |
| 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) | 2012.06.04 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.393599968791 |

A.2 Comments