

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 53846 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Mar 22 2013

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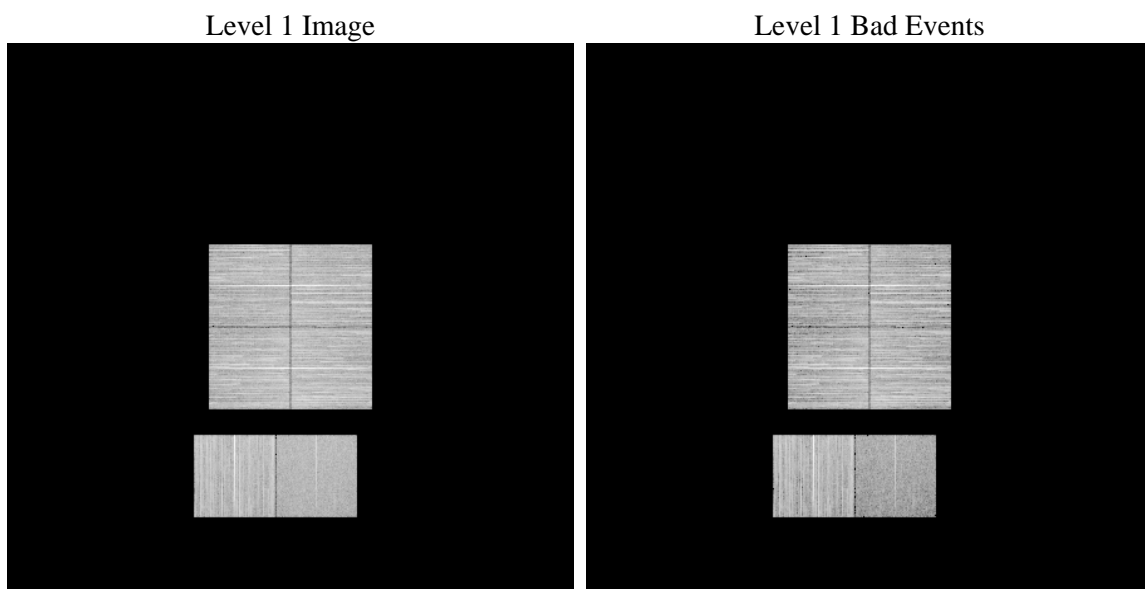
1 Front

| | | |
|----------|-------------------------------------------------|---------------------------------------------|
| seq_num | | Sequence number |
| obs_id | 53846 | Observation id |
| title | ACIS-012367 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 | 175.23892008786 | Nominal RA [deg] |
| dec_nom | -25.23665333054 | Nominal Dec [deg] |
| roll_nom | 346.42308873317 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8239.2429074645 | Sum of GTIs [s] |
| livetime | 8134.9126526937 | Livetime [s] |
| ontime0 | 8148.4527474642 | Sum of GTIs [s] |
| ontime1 | 8132.2065171003 | Sum of GTIs [s] |
| ontime2 | 8128.9244363308 | Sum of GTIs [s] |
| ontime3 | 8132.3296371102 | Sum of GTIs [s] |
| ontime6 | 8135.3654674292 | Sum of GTIs [s] |
| ontime7 | 8239.2429074645 | Sum of GTIs [s] |
| l2events | 207503 | Number of level 2 events |

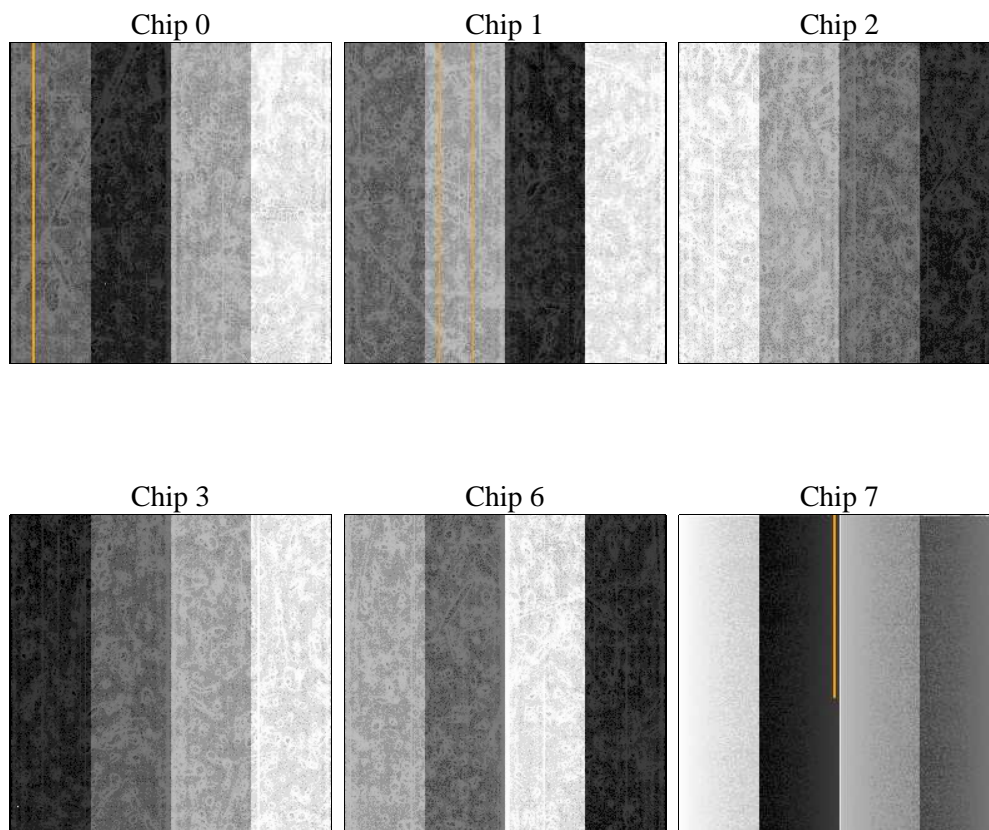
2 OBI

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 | 8.5.1.1 | Processing system revision | ontime | 8239.2429074645 | Sum of GTIs [s] |
| caldsver | 4.5.6 | | ontime0 | 8148.4527474642 | Sum of GTIs [s] |
| date | 2013-03-22T05:51:53 | Date and time of file creation | ontime1 | 8132.2065171003 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 8128.9244363308 | Sum of GTIs [s] |
| | | | ontime3 | 8132.3296371102 | Sum of GTIs [s] |
| | | | ontime6 | 8135.3654674292 | Sum of GTIs [s] |
| | | | ontime7 | 8239.2429074645 | Sum of GTIs [s] |
| | | | l1events | 949088 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|-------|
| level 1 events | 155472 | 158913 | 166155 | 174640 | 168222 | 125686 | grade 0 events | 15097 | 13146 | 16025 | 16031 | 12645 | 7715 |
| rejected events | 122955 | 126780 | 133586 | 142276 | 135120 | 68858 | | 9% | 8% | 9% | 9% | 7% | 6% |
| rejected % | 79% | 79% | 80% | 81% | 80% | 54% | grade 1 events | 72 | 45 | 62 | 79 | 51 | 72 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 8186 | 9761 | 7637 | 7537 | 10930 | 14075 |
| | | | | | | | | 5% | 6% | 4% | 4% | 6% | 11% |
| | | | | | | | grade 3 events | 1995 | 1772 | 2079 | 2004 | 1581 | 4330 |
| | | | | | | | | 1% | 1% | 1% | 1% | 0% | 3% |
| | | | | | | | grade 4 events | 1940 | 1749 | 2027 | 2057 | 1555 | 4114 |
| | | | | | | | | 1% | 1% | 1% | 1% | 0% | 3% |
| | | | | | | | grade 5 events | 2467 | 2484 | 2263 | 2810 | 2432 | 6541 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 5% |
| | | | | | | | grade 6 events | 5480 | 5896 | 5030 | 4962 | 6591 | 26919 |
| | | | | | | | | 3% | 3% | 3% | 2% | 3% | 21% |
| | | | | | | | grade 7 events | 120235 | 124060 | 131032 | 139160 | 132437 | 61920 |
| | | | | | | | | 77% | 78% | 78% | 79% | 78% | 49% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012367 | ACIS-012367 | 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 | 175.2389200878625 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -25.23665333054002 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 346.4230887331685 | [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) | 480275754.900888 | 480275753.87589 | | | |
| Observation start date | 2013-03-21T17:55:55 | 2013-03-21T17:55:53 | | | |
| [s] Observation end time (MET) | 480284633.451368 | 480284632.42637 | | | |
| Observation end date | 2013-03-21T20:23:53 | 2013-03-21T20:23:52 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2013.03.22 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2392429074645 |

A.2 Comments