

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 53954 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 13 2013

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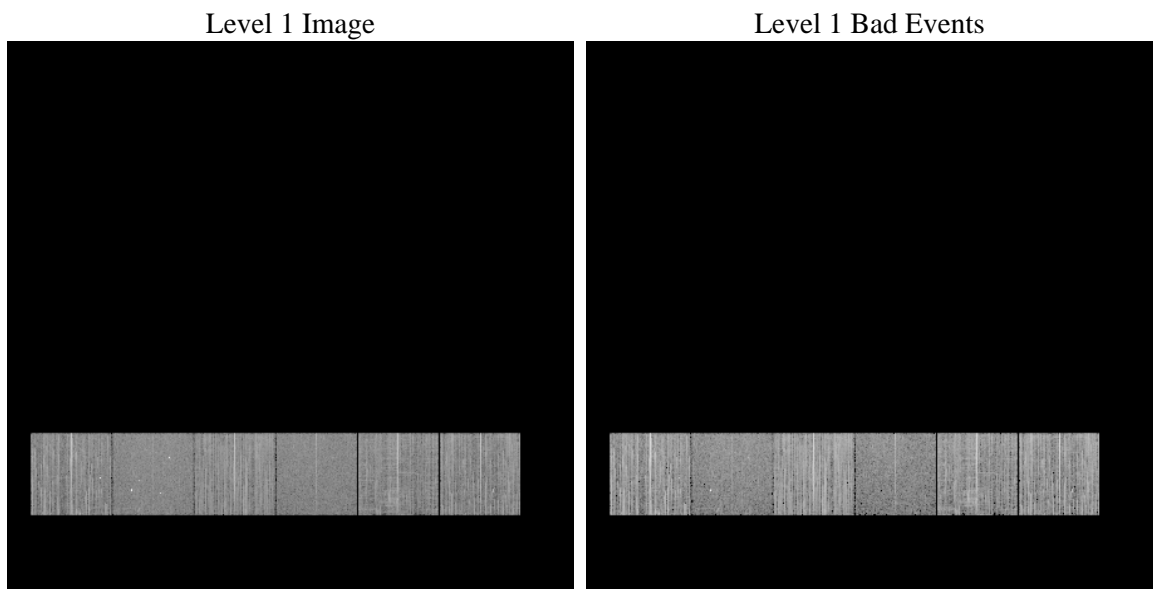
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 53954 | 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 | 210.15569106956 | Nominal RA [deg] |
| dec_nom | -52.212387302184 | Nominal Dec [deg] |
| roll_nom | 66.584790348443 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 4527.2248903513 | Sum of GTIs [s] |
| livetime | 4469.8984428221 | Livetime [s] |
| ontime4 | 4527.1017703414 | Sum of GTIs [s] |
| ontime5 | 4527.183850348 | Sum of GTIs [s] |
| ontime6 | 4527.1428103447 | Sum of GTIs [s] |
| ontime7 | 4527.2248903513 | Sum of GTIs [s] |
| ontime8 | 4527.0607303381 | Sum of GTIs [s] |
| ontime9 | 4527.2659303546 | Sum of GTIs [s] |
| l2events | 142292 | Number of level 2 events |

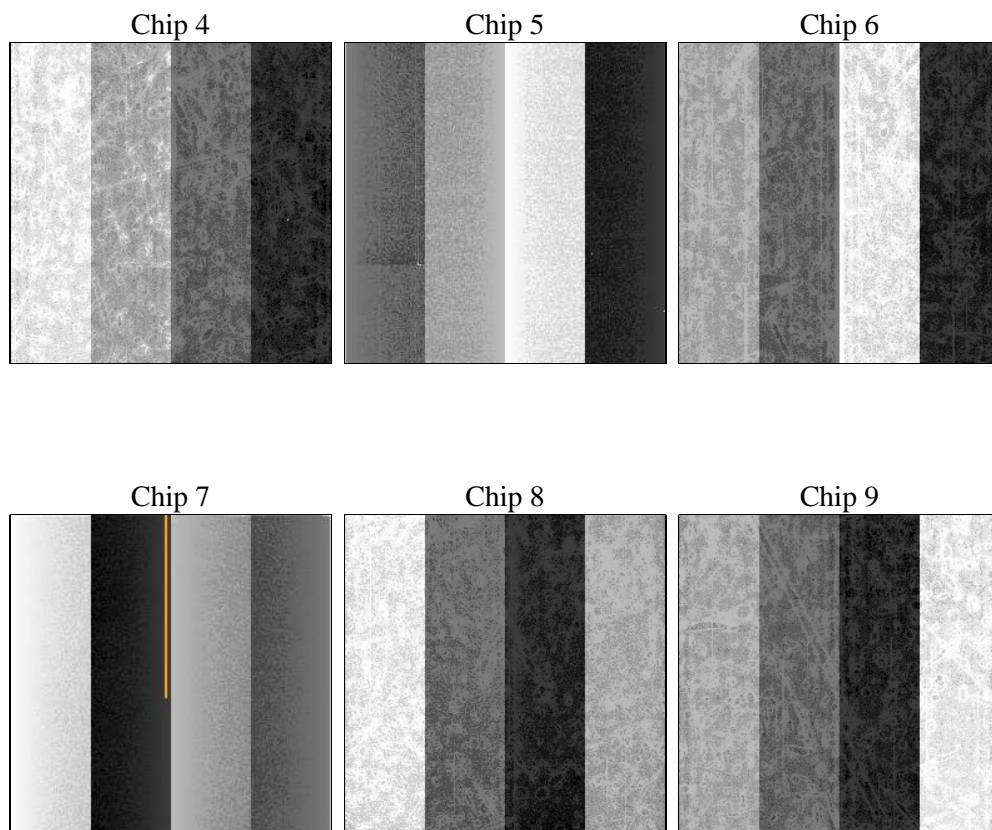
2 OBI

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 | 8.5.1.1 | Processing system revision | ontime | 4527.2248903513 | Sum of GTIs [s] |
| caldsver | 4.5.5 | | ontime4 | 4527.1017703414 | Sum of GTIs [s] |
| date | 2013-02-13T06:43:40 | Date and time of file creation | ontime5 | 4527.183850348 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime6 | 4527.1428103447 | Sum of GTIs [s] |
| | | | ontime7 | 4527.2248903513 | Sum of GTIs [s] |
| | | | ontime8 | 4527.0607303381 | Sum of GTIs [s] |
| | | | ontime9 | 4527.2659303546 | Sum of GTIs [s] |
| | | | l1events | 579221 | 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 | 103644 | 87890 | 109827 | 78888 | 97327 | 101645 | grade 0 events | 12055 | 5423 | 10533 | 5461 | 12038 | 10299 |
| rejected events | 83183 | 48832 | 89931 | 43580 | 71995 | 82304 | | 11% | 6% | 9% | 6% | 12% | 10% |
| rejected % | 80% | 55% | 81% | 55% | 73% | 80% | grade 1 events | 96 | 77 | 49 | 46 | 75 | 71 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 3852 | 15073 | 4200 | 9115 | 5467 | 3960 |
| | | | | | | | | 3% | 17% | 3% | 11% | 5% | 3% |
| | | | | | | | grade 3 events | 1491 | 1512 | 1375 | 3184 | 2110 | 1430 |
| | | | | | | | | 1% | 1% | 1% | 4% | 2% | 1% |
| | | | | | | | grade 4 events | 1373 | 1446 | 1365 | 3036 | 1992 | 1354 |
| | | | | | | | | 1% | 1% | 1% | 3% | 2% | 1% |
| | | | | | | | grade 5 events | 1961 | 4087 | 1949 | 4834 | 2628 | 2255 |
| | | | | | | | | 1% | 4% | 1% | 6% | 2% | 2% |
| | | | | | | | grade 6 events | 2730 | 17625 | 3495 | 16326 | 5072 | 3346 |
| | | | | | | | | 2% | 20% | 3% | 20% | 5% | 3% |
| | | | | | | | grade 7 events | 80086 | 42647 | 86861 | 36886 | 67945 | 78930 |
| | | | | | | | | 77% | 48% | 79% | 46% | 69% | 77% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-456789 | ACIS-456789 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 210.1556910695622 |
| [deg] Pointing Dec | 0 | -52.21238730218369 |
| [deg] Pointing Roll | 0.0 | 66.58479034844287 |
| SIM focus pos (mm) | -1.4281808131 | -1.4281808131 |
| [mm] SIM defocus | 0.1051557500557434 | 0.1051557500557434 |
| SIM translation stage pos (mm) | 250.4660330802 | 250.4660330802 |
| [mm] SIM translation stage offset | -0.01005726120527584 | -0.01005726120527584 |
| [s] Observation start time (MET) | 477049196.176447 | 477049196.176447 |
| Observation start date | 2013-02-12T09:39:56 | 2013-02-12T09:39:56 |
| [s] Observation end time (MET) | 477055742.048901 | 477055742.048901 |
| Observation end date | 2013-02-12T11:29:02 | 2013-02-12T11:29:02 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|----------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | OVERRIDE | OVERRIDE |
| Number of optional ACIS chips dropped | 0 | 0 |
| On-chip summing requested | N | N |
| Subarray requested | NONE | NONE |
| Alternating exposures requested | N | N |
| [s] Primary exposure time | 3.2 | 3.2 |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Joy Nichols |
| V&V Date (YYYY-MM-DD) | 2013.02.13 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.5272248903513 |

A.2 Comments