

V&V Reference Report

L2 ASCDS Version : 10.2.1

Observation 53061 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Jan 28 2014

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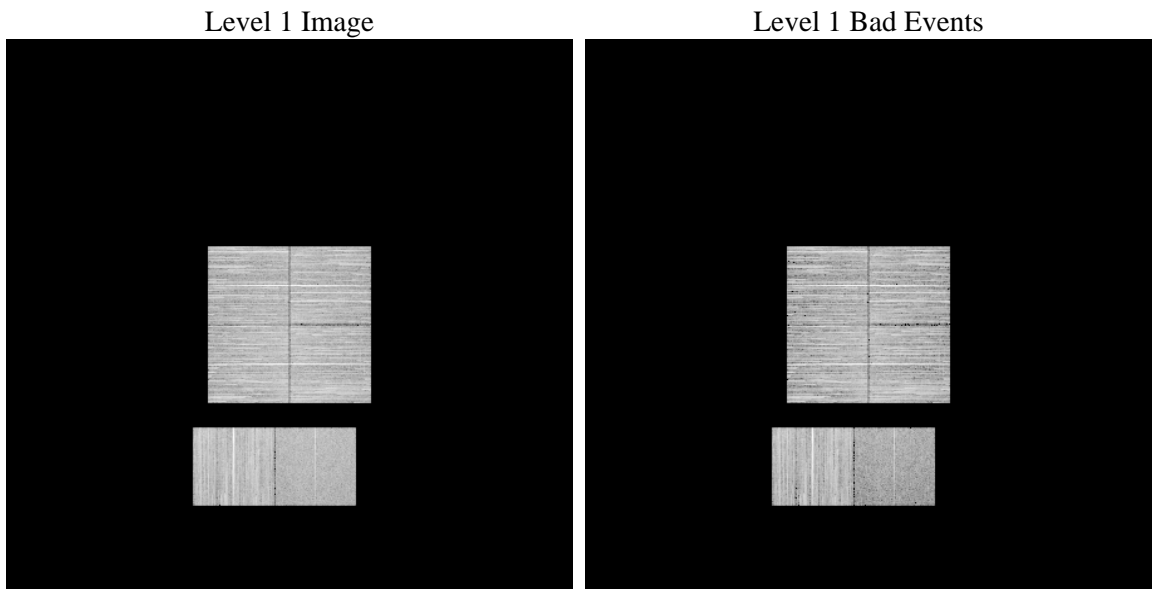
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 53061 | 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 | 175.2299746062 | Nominal RA [deg] |
| dec_nom | -18.150609320526 | Nominal Dec [deg] |
| roll_nom | 58.989407174452 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 6489.599975884 | Sum of GTIs [s] |
| livetime | 6407.4247534213 | Livetime [s] |
| ontime0 | 6489.599975884 | Sum of GTIs [s] |
| ontime1 | 6489.599975884 | Sum of GTIs [s] |
| ontime2 | 6489.599975884 | Sum of GTIs [s] |
| ontime3 | 6489.599975884 | Sum of GTIs [s] |
| ontime6 | 6489.599975884 | Sum of GTIs [s] |
| ontime7 | 6489.599975884 | Sum of GTIs [s] |
| l2events | 144407 | Number of level 2 events |

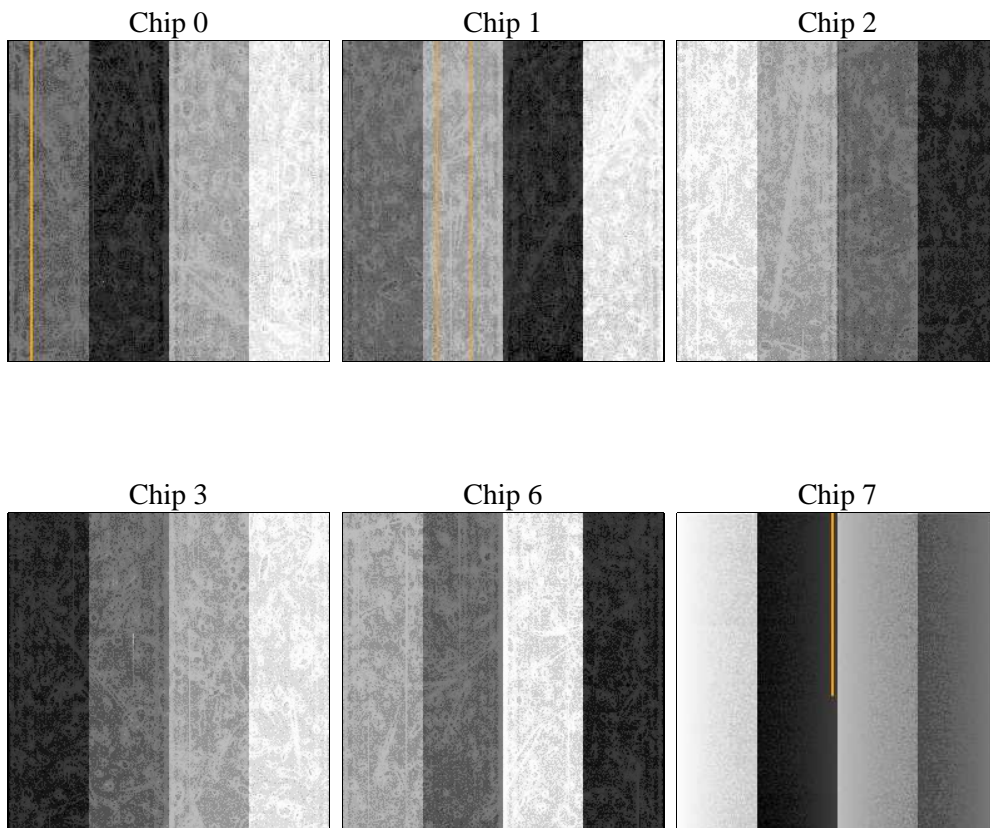
2 OBI

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 | 10.2.1 | Processing system revision | ontime | 6489.599975884 | Sum of GTIs [s] |
| caldbver | 4.6.0 | | ontime0 | 6489.599975884 | Sum of GTIs [s] |
| date | 2014-01-28T08:10:54 | Date and time of file creation | ontime1 | 6489.599975884 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 6489.599975884 | Sum of GTIs [s] |
| | | | ontime3 | 6489.599975884 | Sum of GTIs [s] |
| | | | ontime6 | 6489.599975884 | Sum of GTIs [s] |
| | | | ontime7 | 6489.599975884 | Sum of GTIs [s] |
| | | | l1events | 705408 | 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 | 114447 | 114670 | 124176 | 123673 | 132541 | 95901 | grade 0 events | 11629 | 11283 | 11833 | 11854 | 11716 | 6341 |
| rejected events | 92443 | 92480 | 102026 | 101735 | 109437 | 54041 | | 10% | 9% | 9% | 9% | 8% | 6% |
| rejected % | 80% | 80% | 82% | 82% | 82% | 56% | grade 1 events | 75 | 47 | 83 | 74 | 56 | 50 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4457 | 4809 | 4513 | 4458 | 4930 | 10544 |
| | | | | | | | | 3% | 4% | 3% | 3% | 3% | 10% |
| | | | | | | | grade 3 events | 1557 | 1584 | 1584 | 1595 | 1652 | 3585 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1555 | 1562 | 1595 | 1525 | 1537 | 3665 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 2347 | 2324 | 2020 | 2531 | 2454 | 6019 |
| | | | | | | | | 2% | 2% | 1% | 2% | 1% | 6% |
| | | | | | | | grade 6 events | 3681 | 3841 | 3566 | 3381 | 4208 | 19418 |
| | | | | | | | | 3% | 3% | 2% | 2% | 3% | 20% |
| | | | | | | | grade 7 events | 89146 | 89220 | 98982 | 98255 | 105988 | 46279 |
| | | | | | | | | 77% | 77% | 79% | 79% | 79% | 48% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|----------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012367 | ACIS-012367 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 175.2299746062021 |
| [deg] Pointing Dec | 0 | -18.15060932052609 |
| [deg] Pointing Roll | 0.0 | 58.98940717445214 |
| 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) | 507208041.369706 | 507208041.369706 |
| Observation start date | 2014-01-27T11:07:21 | 2014-01-27T11:07:21 |
| [s] Observation end time (MET) | 507216565.920686 | 507216565.920686 |
| Observation end date | 2014-01-27T13:29:26 | 2014-01-27T13:29:25 |
| 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) | 2014.01.28 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.489599975884 |

A.2 Comments