

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 54301 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Sep 25 2012

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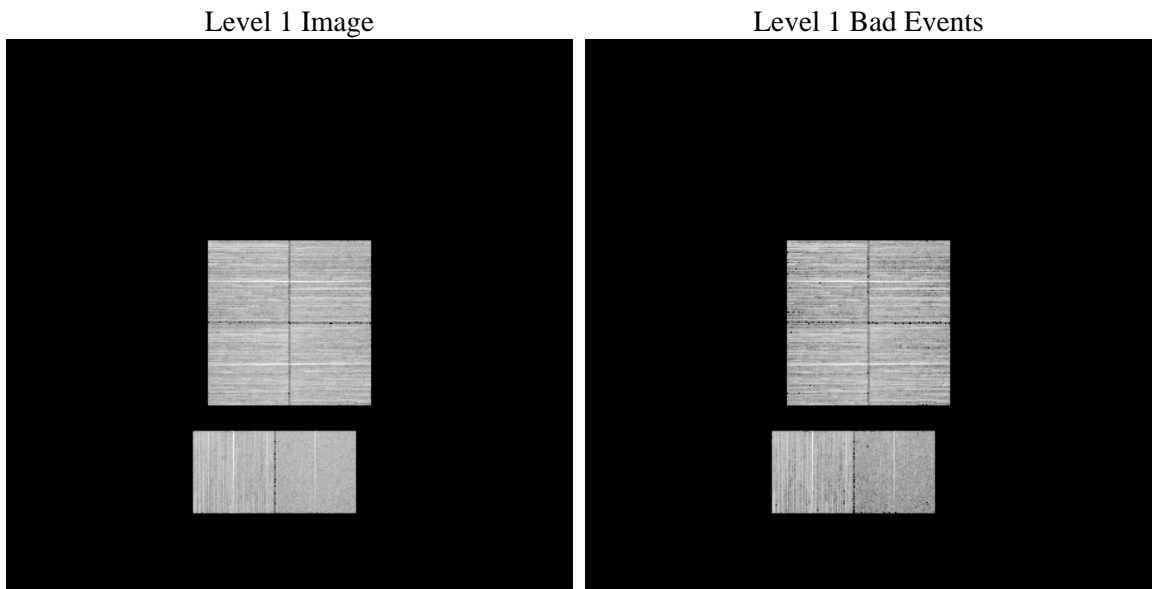
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 54301 | Observation id |
| title | ACIS-012367 diagnostics | Proposal title |
| observer | CHANDRA engineering request/realtime commanding | Principal investig |
| object | | Source name |
| dtycycle | 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 | 0.91927809760221 | Nominal RA [deg] |
| dec_nom | 4.8170966103545 | Nominal Dec [deg] |
| roll_nom | 188.57911901785 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 5439.98178792 | Sum of GTIs [s] |
| livetime | 5371.0974629576 | Livetime [s] |
| ontime0 | 5439.9407479167 | Sum of GTIs [s] |
| ontime1 | 5439.8997079134 | Sum of GTIs [s] |
| ontime2 | 5439.8586679101 | Sum of GTIs [s] |
| ontime3 | 5439.999979794 | Sum of GTIs [s] |
| ontime6 | 5439.8176279068 | Sum of GTIs [s] |
| ontime7 | 5439.98178792 | Sum of GTIs [s] |
| l2events | 163078 | Number of level 2 events |

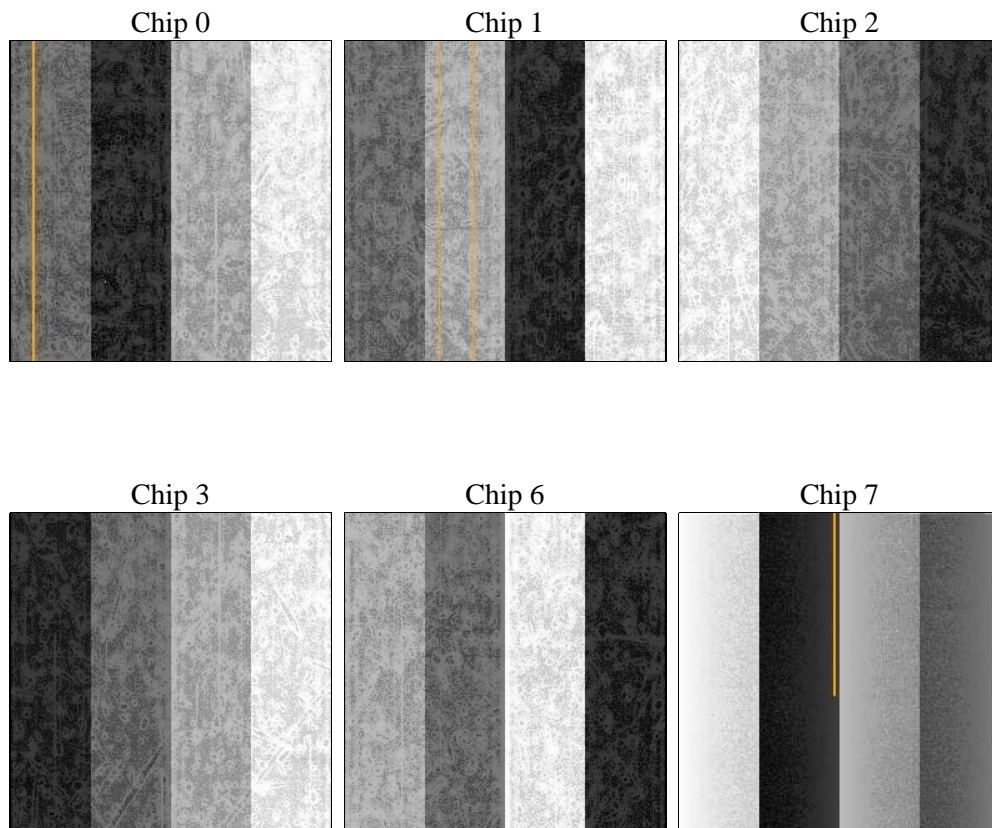
2 OBI

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 | 8.4.5 | Processing system revision | ontime | 5439.98178792 | Sum of GTIs [s] |
| caldsver | 4.5.1.1 | | ontime0 | 5439.9407479167 | Sum of GTIs [s] |
| date | 2012-09-25T21:27:08 | Date and time of file creation | ontime1 | 5439.8997079134 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 5439.8586679101 | Sum of GTIs [s] |
| | | | ontime3 | 5439.999979794 | Sum of GTIs [s] |
| | | | ontime6 | 5439.8176279068 | Sum of GTIs [s] |
| | | | ontime7 | 5439.98178792 | Sum of GTIs [s] |
| | | | l1events | 689476 | 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 | 119303 | 114029 | 126143 | 117645 | 117112 | 95244 | grade 0 events | 13280 | 12590 | 13778 | 13776 | 13174 | 6799 |
| rejected events | 93806 | 88704 | 100398 | 91956 | 90668 | 51191 | | 11% | 11% | 10% | 11% | 11% | 7% |
| rejected % | 78% | 77% | 79% | 78% | 77% | 53% | grade 1 events | 66 | 61 | 77 | 73 | 90 | 63 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 5219 | 5829 | 5150 | 5114 | 5763 | 11520 |
| | | | | | | | | 4% | 5% | 4% | 4% | 4% | 12% |
| | | | | | | | grade 3 events | 1712 | 1681 | 1794 | 1789 | 1698 | 3627 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1713 | 1580 | 1812 | 1742 | 1734 | 3476 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 1989 | 2060 | 1933 | 2305 | 2228 | 5385 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 5% |
| | | | | | | | grade 6 events | 4269 | 4344 | 3905 | 3963 | 4736 | 19820 |
| | | | | | | | | 3% | 3% | 3% | 3% | 4% | 20% |
| | | | | | | | grade 7 events | 91055 | 85884 | 97694 | 88883 | 87689 | 44554 |
| | | | | | | | | 76% | 75% | 77% | 75% | 74% | 46% |

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 | OVERRIDE | OVERRIDE |
| 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 | 0.9192780976022092 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 4.817096610354491 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 188.5791190178498 | [s] Primary exposure time | 3.2 | 3.2 |
| 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) | 464936606.52463 | 464936606.52463 | | | |
| Observation start date | 2012-09-25T05:03:27 | 2012-09-25T05:03:26 | | | |
| [s] Observation end time (MET) | 464943443.600257 | 464943443.600257 | | | |
| Observation end date | 2012-09-25T06:57:24 | 2012-09-25T06:57:23 | | | |
| 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) | 2012.09.26 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.43998178792 |

A.2 Comments