

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 53142 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Dec 22 2013

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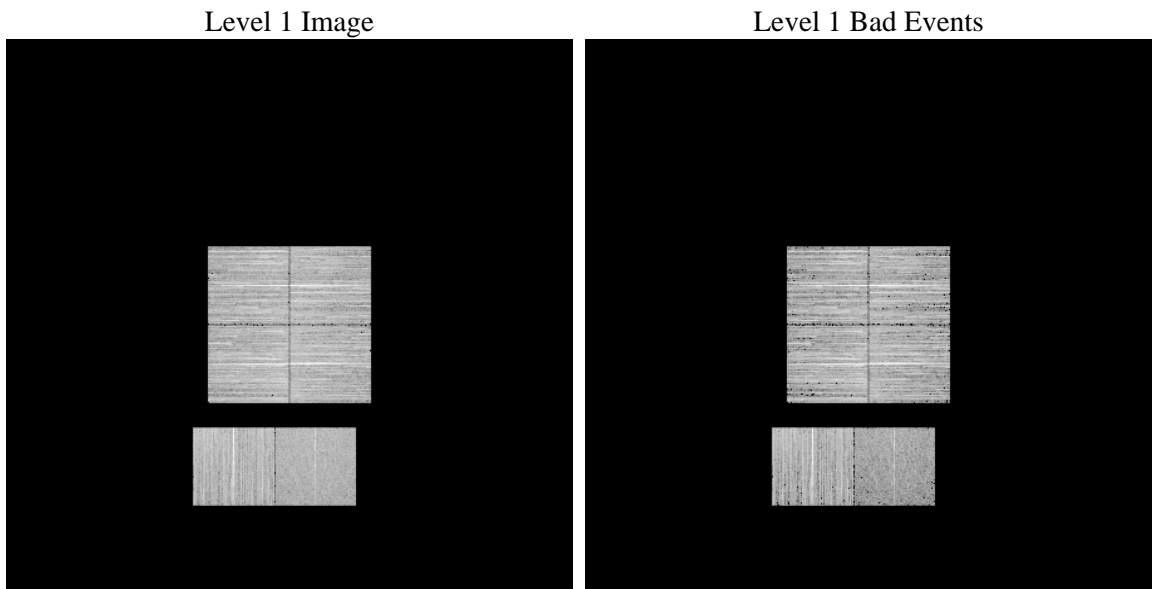
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 53142 | Observation id |
| title | ACIS-012367 diagnostics | Proposal title |
| observer | CHANDRA engineering request/realtime commanding | Principal investig |
| object | | Source name |
| dtycle | 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 | 61.036155962943 | Nominal RA [deg] |
| dec_nom | 14.48557404871 | Nominal Dec [deg] |
| roll_nom | 292.57920345225 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 5049.5280370116 | Sum of GTIs [s] |
| livetime | 4985.5878725462 | Livetime [s] |
| ontime0 | 5049.5143395066 | Sum of GTIs [s] |
| ontime1 | 5049.4732995033 | Sum of GTIs [s] |
| ontime2 | 5049.4322595 | Sum of GTIs [s] |
| ontime3 | 5049.5280370116 | Sum of GTIs [s] |
| ontime6 | 5046.1501891613 | Sum of GTIs [s] |
| ontime7 | 5049.5280370116 | Sum of GTIs [s] |
| l2events | 111122 | Number of level 2 events |

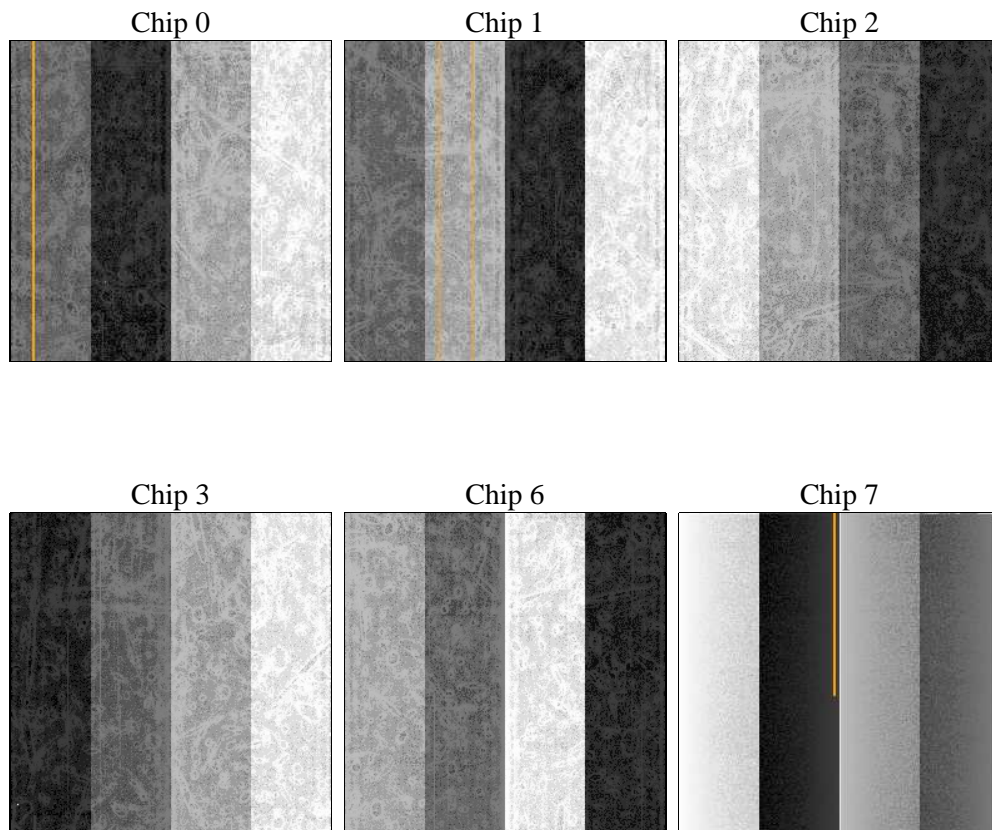
2 OBI

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 | 10.1.1 | Processing system revision | ontime | 5049.5280370116 | Sum of GTIs [s] |
| caldbver | 4.6.0 | | ontime0 | 5049.5143395066 | Sum of GTIs [s] |
| date | 2013-12-22T06:05:33 | Date and time of file creation | ontime1 | 5049.4732995033 | Sum of GTIs [s] |
| | | | ontime2 | 5049.4322595 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime3 | 5049.5280370116 | Sum of GTIs [s] |
| | | | ontime6 | 5046.1501891613 | Sum of GTIs [s] |
| | | | ontime7 | 5049.5280370116 | Sum of GTIs [s] |
| | | | l1events | 527240 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|-------|
| level 1 events | 88607 | 89747 | 96956 | 91247 | 89463 | 71220 |
| rejected events | 71523 | 72905 | 79764 | 73918 | 71852 | 39663 |
| rejected % | 80% | 81% | 82% | 81% | 80% | 55% |

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|-------|
| grade 0 events | 8032 | 7128 | 8598 | 8650 | 7072 | 4043 |
| | 9% | 7% | 8% | 9% | 7% | 5% |
| grade 1 events | 33 | 34 | 43 | 51 | 30 | 42 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 4076 | 4766 | 3728 | 3684 | 5261 | 7942 |
| | 4% | 5% | 3% | 4% | 5% | 11% |
| grade 3 events | 1103 | 969 | 1122 | 1135 | 951 | 2299 |
| | 1% | 1% | 1% | 1% | 1% | 3% |
| grade 4 events | 1074 | 961 | 1121 | 1143 | 954 | 2233 |
| | 1% | 1% | 1% | 1% | 1% | 3% |
| grade 5 events | 1591 | 1468 | 1510 | 1708 | 1445 | 3923 |
| | 1% | 1% | 1% | 1% | 1% | 5% |
| grade 6 events | 2799 | 3018 | 2623 | 2717 | 3373 | 15040 |
| | 3% | 3% | 2% | 2% | 3% | 21% |
| grade 7 events | 69899 | 71403 | 78211 | 72159 | 70377 | 35698 |
| | 78% | 79% | 80% | 79% | 78% | 50% |

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 | 61.03615596294254 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | 14.48557404871035 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 292.5792034522453 | [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) | 504039237.295521 | 504039236.27052 | | | |
| Observation start date | 2013-12-21T18:53:57 | 2013-12-21T18:53:56 | | | |
| [s] Observation end time (MET) | 504048242.946015 | 504048241.92102 | | | |
| Observation end date | 2013-12-21T21:24:03 | 2013-12-21T21:24:01 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|-----------------|
| V&V Scientist | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2013.12.23 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 5.0495280370116 |

A.2 Comments