

V&V Reference Report

L2 ASCDS Version : 10.4.3.1

Observation 51092 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Apr 18 2016

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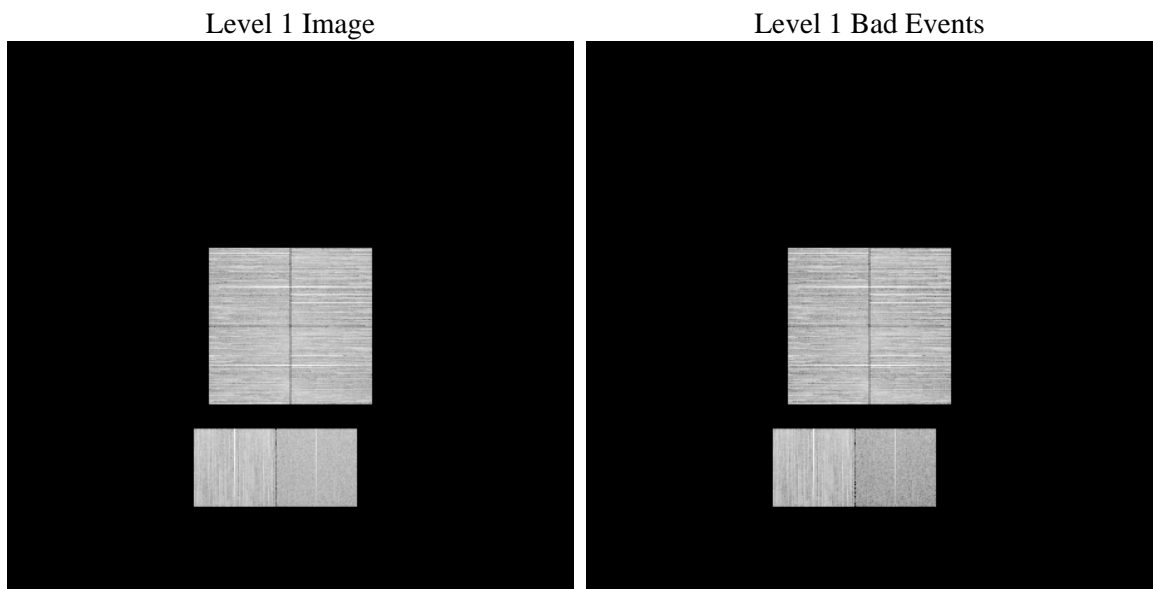
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51092 | 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 | 186.31537115866 | Nominal RA [deg] |
| dec_nom | -26.014047918183 | Nominal Dec [deg] |
| roll_nom | 304.79839562565 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8256.000123024 | Sum of GTIs [s] |
| livetime | 8151.4576782998 | Livetime [s] |
| ontime0 | 8255.9777539968 | Sum of GTIs [s] |
| ontime1 | 8255.9367140532 | Sum of GTIs [s] |
| ontime2 | 8255.8956739902 | Sum of GTIs [s] |
| ontime3 | 8256.000123024 | Sum of GTIs [s] |
| ontime6 | 8255.8546340466 | Sum of GTIs [s] |
| ontime7 | 8256.000123024 | Sum of GTIs [s] |
| l2events | 145682 | Number of level 2 events |

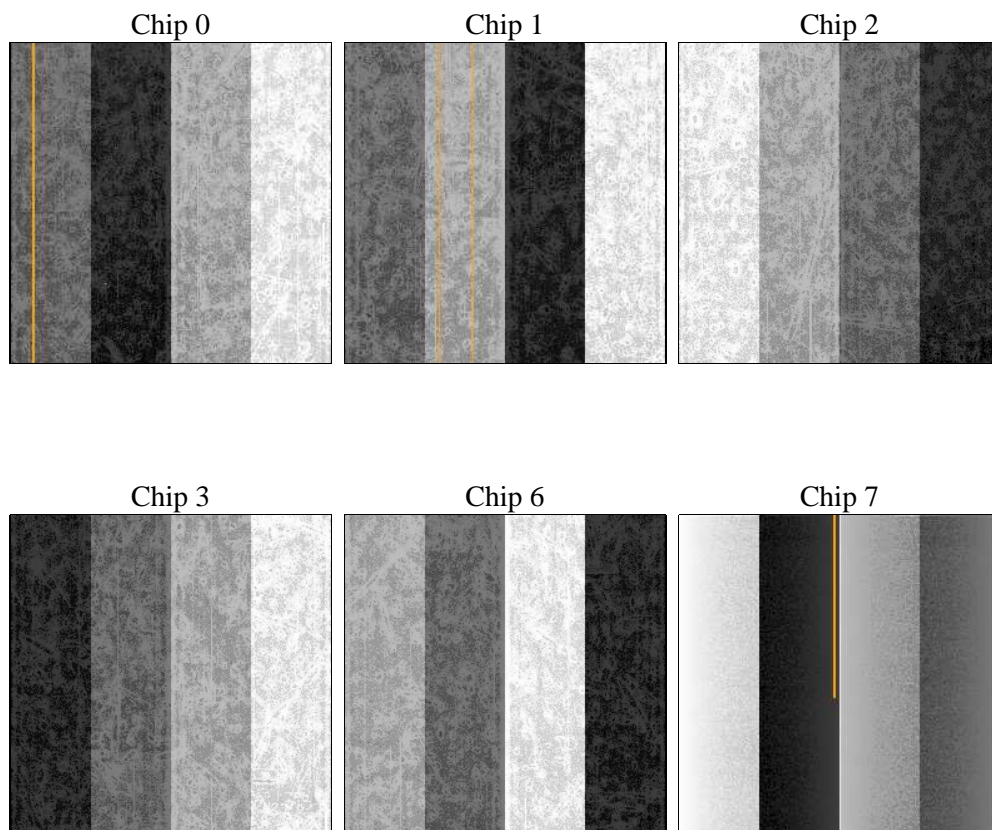
2 OBI

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 | 10.4.3.1 | Processing system revision | ontime | 8256.000123024 | Sum of GTIs [s] |
| caldsver | 4.7.1 | | ontime0 | 8255.9777539968 | Sum of GTIs [s] |
| date | 2016-04-18T17:54:08 | Date and time of file creation | ontime1 | 8255.9367140532 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 8255.8956739902 | Sum of GTIs [s] |
| | | | ontime3 | 8256.000123024 | Sum of GTIs [s] |
| | | | ontime6 | 8255.8546340466 | Sum of GTIs [s] |
| | | | ontime7 | 8256.000123024 | Sum of GTIs [s] |
| | | | l1events | 1011594 | 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 | 162973 | 179463 | 172674 | 178835 | 184373 | 133276 | grade 0 events | 9377 | 9213 | 10084 | 10035 | 9618 | 5654 |
| rejected events | 142809 | 158693 | 152172 | 158352 | 163044 | 80732 | | 5% | 5% | 5% | 5% | 5% | 4% |
| rejected % | 87% | 88% | 88% | 88% | 88% | 60% | grade 1 events | 73 | 57 | 63 | 61 | 60 | 112 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4526 | 4868 | 4313 | 4171 | 4842 | 13061 |
| | | | | | | | | 2% | 2% | 2% | 2% | 2% | 9% |
| | | | | | | | grade 3 events | 1480 | 1445 | 1491 | 1485 | 1450 | 3933 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 2% |
| | | | | | | | grade 4 events | 1389 | 1544 | 1473 | 1516 | 1517 | 4088 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 3% |
| | | | | | | | grade 5 events | 3191 | 3425 | 3089 | 3641 | 3471 | 8666 |
| | | | | | | | | 1% | 1% | 1% | 2% | 1% | 6% |
| | | | | | | | grade 6 events | 3468 | 3778 | 3218 | 3347 | 3991 | 25991 |
| | | | | | | | | 2% | 2% | 1% | 1% | 2% | 19% |
| | | | | | | | grade 7 events | 139469 | 155133 | 148943 | 154579 | 159424 | 71771 |
| | | | | | | | | 85% | 86% | 86% | 86% | 86% | 53% |

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 | 186.3153711586605 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -26.01404791818298 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 304.7983956256451 | [s] Primary exposure time | 3.2 | 3.2 |
| [mm] SIM focus pos | -1.429586 | -0.7809083437167272 | | | |
| [mm] SIM defocus | 0.1037507710433287 | 0.7524282956875696 | | | |
| [mm] SIM translation stage pos | 250.455976 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 577350179.770746 | 577350178.74575 | | | |
| Observation start date | 2016-04-18T07:03:00 | 2016-04-18T07:02:58 | | | |
| [s] Observation end time (MET) | 577360030.0213079 | 577360028.99631 | | | |
| Observation end date | 2016-04-18T09:47:10 | 2016-04-18T09:47:08 | | | |
| Read mode | TIMED | TIMED | | | |

2.3 Star Slots

2.4 FID Slots

A Summary

A.1 Status

| | |
|----------------------------|----------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2016.04.18 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.256000123024 |

A.2 Comments