

V&V Reference Report

L2 ASCDS Version : 8.4.3.1

Observation 58777 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Apr 9 2012

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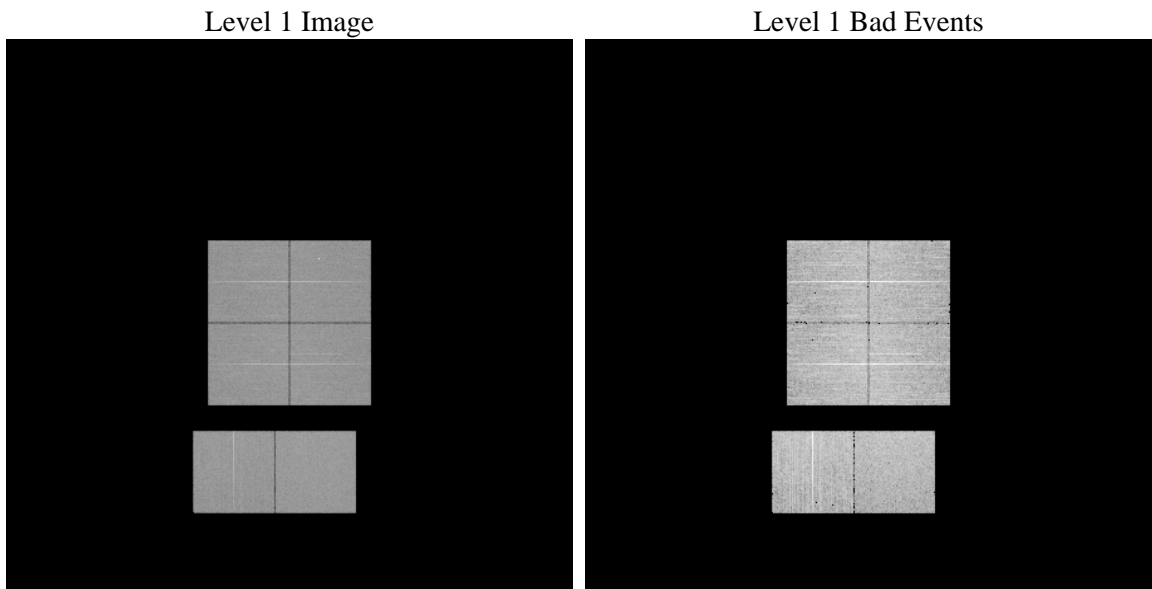
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 58777 | 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 | 329.01595594993 | Nominal RA [deg] |
| dec_nom | -0.026229047736732 | Nominal Dec [deg] |
| roll_nom | 267.4263023767 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 7311.9999728203 | Sum of GTIs [s] |
| livetime | 7219.4110264066 | Livetime [s] |
| ontime0 | 7311.9999728203 | Sum of GTIs [s] |
| ontime1 | 7308.7589924932 | Sum of GTIs [s] |
| ontime2 | 7311.9999728203 | Sum of GTIs [s] |
| ontime3 | 7311.9999728203 | Sum of GTIs [s] |
| ontime6 | 7311.9999728203 | Sum of GTIs [s] |
| ontime7 | 7311.9999728203 | Sum of GTIs [s] |
| l2events | 768475 | Number of level 2 events |

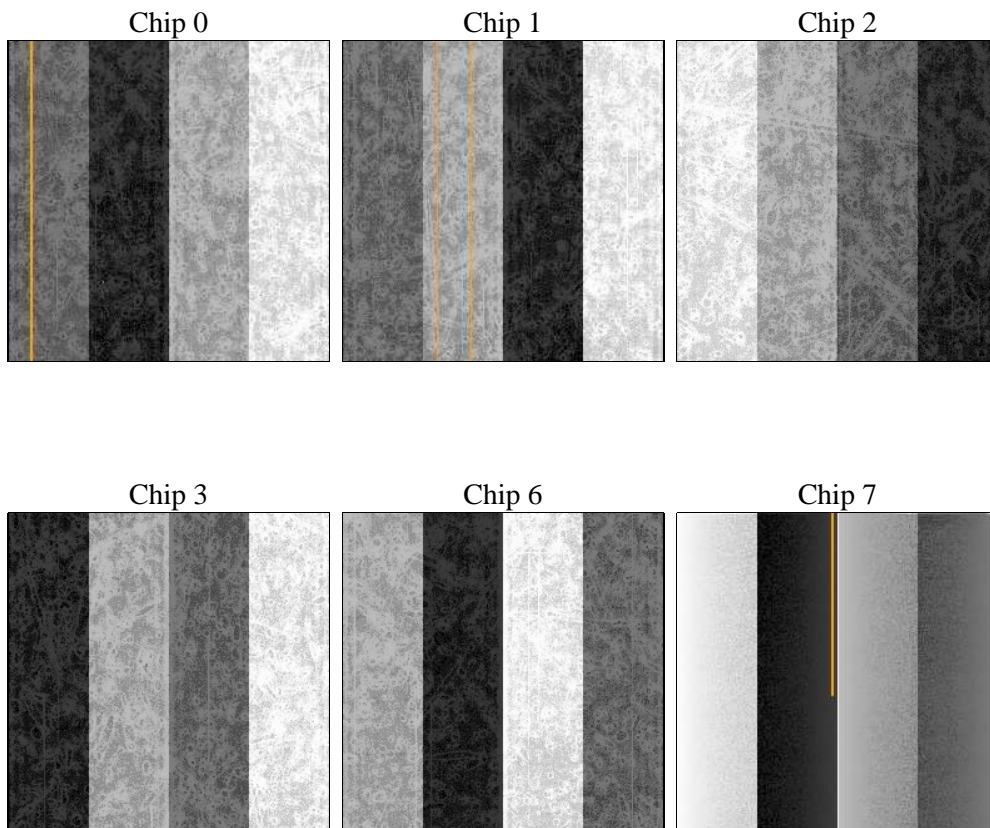
2 OBI

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 | 8.4.3.1 | Processing system revision | ontime | 7311.9999728203 | Sum of GTIs [s] |
| caldsver | 4.4.9 | | ontime0 | 7311.9999728203 | Sum of GTIs [s] |
| date | 2012-04-09T18:57:11 | Date and time of file creation | ontime1 | 7308.7589924932 | Sum of GTIs [s] |
| revision | 2 | Processing version of data | ontime2 | 7311.9999728203 | Sum of GTIs [s] |
| | | | ontime3 | 7311.9999728203 | Sum of GTIs [s] |
| | | | ontime6 | 7311.9999728203 | Sum of GTIs [s] |
| | | | ontime7 | 7311.9999728203 | Sum of GTIs [s] |
| | | | l1events | 1182039 | 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 | 189051 | 189009 | 194819 | 194550 | 201299 | 213311 | grade 0 events | 70117 | 72199 | 72497 | 72806 | 72795 | 35242 |
| rejected events | 60925 | 58153 | 64976 | 64443 | 66662 | 55656 | | 37% | 38% | 37% | 37% | 36% | 16% |
| rejected % | 32% | 30% | 33% | 33% | 33% | 26% | grade 1 events | 470 | 440 | 541 | 538 | 445 | 174 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 23035 | 23378 | 22401 | 22551 | 23500 | 34636 |
| | | | | | | | | 12% | 12% | 11% | 11% | 11% | 16% |
| | | | | | | | grade 3 events | 8580 | 8398 | 8660 | 8703 | 8727 | 15312 |
| | | | | | | | | 4% | 4% | 4% | 4% | 4% | 7% |
| | | | | | | | grade 4 events | 8410 | 8330 | 8606 | 8753 | 8691 | 15161 |
| | | | | | | | | 4% | 4% | 4% | 4% | 4% | 7% |
| | | | | | | | grade 5 events | 3408 | 3588 | 3246 | 3698 | 3888 | 9168 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 4% |
| | | | | | | | grade 6 events | 19475 | 19971 | 19148 | 18726 | 22415 | 59035 |
| | | | | | | | | 10% | 10% | 9% | 9% | 11% | 27% |
| | | | | | | | grade 7 events | 55556 | 52705 | 59720 | 58775 | 60838 | 44583 |
| | | | | | | | | 29% | 27% | 30% | 30% | 30% | 20% |

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 | 329.0159559499314 |
| [deg] Pointing Dec | 0 | -0.0262290477367322 |
| [deg] Pointing Roll | 0.0 | 267.4263023767027 |
| [mm] SIM focus pos | -0.782348 | -0.6828225247311905 |
| [mm] SIM defocus | 0 | 0.8505141146731063 |
| [mm] SIM translation stage pos | -233.592463 | 250.466033080201 |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 |
| [s] Observation start time (MET) | 275101857.685147 | 275101856.66014 |
| Observation start date | 2006-09-20T01:10:58 | 2006-09-20T01:10:56 |
| [s] Observation end time (MET) | 275123966.936187 | 275123965.91118 |
| Observation end date | 2006-09-20T07:19:27 | 2006-09-20T07:19:25 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| 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 | Jen Lauer |
| V&V Date (YYYY-MM-DD) | 2012.04.10 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 7.3119999728203 |

A.2 Comments