

V&V Reference Report

L2 ASCDS Version : 8.5.1.1

Observation 53969 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Feb 5 2013

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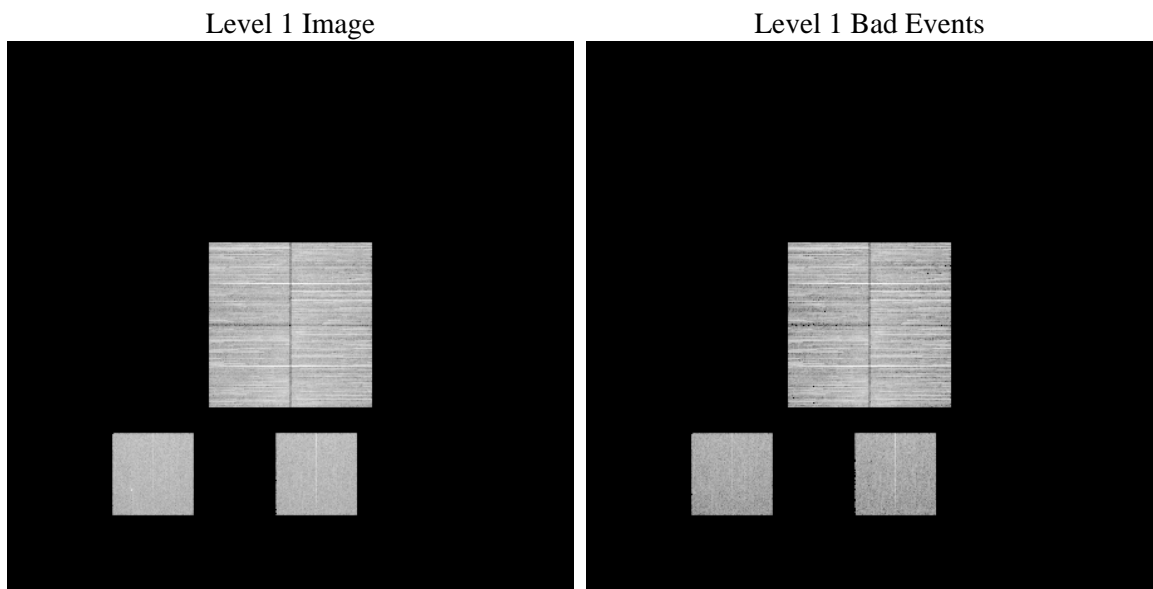
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 53969 | Observation id |
| title | ACIS-012357 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 | 135.02637724292 | Nominal RA [deg] |
| dec_nom | -10.987464070972 | Nominal Dec [deg] |
| roll_nom | 353.07238474348 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 6796.7999747396 | Sum of GTIs [s] |
| livetime | 6710.7348009178 | Livetime [s] |
| ontime0 | 6796.7999747396 | Sum of GTIs [s] |
| ontime1 | 6796.7999747396 | Sum of GTIs [s] |
| ontime2 | 6796.7999747396 | Sum of GTIs [s] |
| ontime3 | 6796.7999747396 | Sum of GTIs [s] |
| ontime5 | 6796.7999747396 | Sum of GTIs [s] |
| ontime7 | 6796.7999747396 | Sum of GTIs [s] |
| l2events | 207528 | Number of level 2 events |

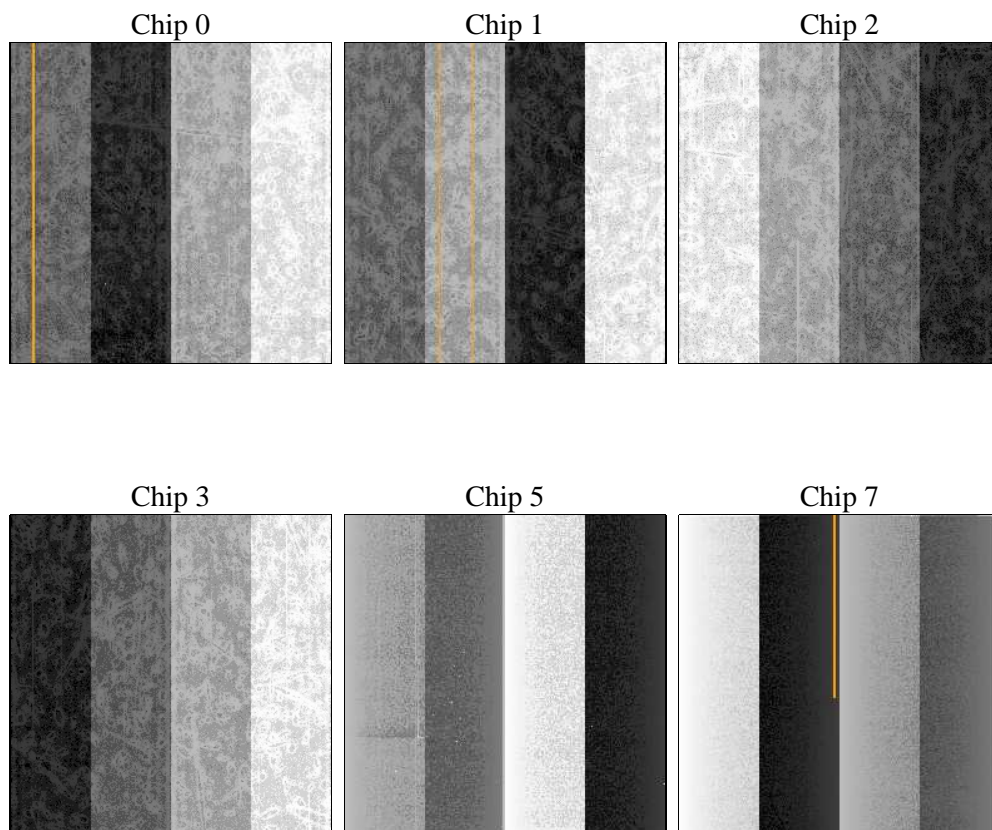
2 OBI

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 | 8.5.1.1 | Processing system revision | ontime | 6796.7999747396 | Sum of GTIs [s] |
| caldsver | 4.5.5 | | ontime0 | 6796.7999747396 | Sum of GTIs [s] |
| date | 2013-02-05T05:40:25 | Date and time of file creation | ontime1 | 6796.7999747396 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 6796.7999747396 | Sum of GTIs [s] |
| | | | ontime3 | 6796.7999747396 | Sum of GTIs [s] |
| | | | ontime5 | 6796.7999747396 | Sum of GTIs [s] |
| | | | ontime7 | 6796.7999747396 | Sum of GTIs [s] |
| | | | l1events | 803366 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 | | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 5 | ccd 7 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|-------|-------|
| level 1 events | 137036 | 146045 | 142598 | 149629 | 115893 | 112165 | grade 0 events | 14076 | 13475 | 14875 | 14875 | 4239 | 7053 |
| rejected events | 108667 | 117408 | 113986 | 120743 | 63664 | 61183 | | 10% | 9% | 10% | 9% | 3% | 6% |
| rejected % | 79% | 80% | 79% | 80% | 54% | 54% | grade 1 events | 73 | 68 | 88 | 84 | 124 | 66 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 5936 | 6720 | 5669 | 5656 | 19807 | 12918 |
| | | | | | | | | 4% | 4% | 3% | 3% | 17% | 11% |
| | | | | | | | grade 3 events | 1888 | 1842 | 1916 | 1955 | 1726 | 3924 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1868 | 1771 | 1957 | 2051 | 1612 | 3888 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 2502 | 2422 | 2340 | 2892 | 4900 | 6346 |
| | | | | | | | | 1% | 1% | 1% | 1% | 4% | 5% |
| | | | | | | | grade 6 events | 4614 | 4849 | 4214 | 4361 | 24873 | 23225 |
| | | | | | | | | 3% | 3% | 2% | 2% | 21% | 20% |
| | | | | | | | grade 7 events | 106079 | 114898 | 111539 | 117755 | 58612 | 54745 |
| | | | | | | | | 77% | 78% | 78% | 78% | 50% | 48% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-012357 | ACIS-012357 | 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 | 135.0263772429184 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -10.98746407097246 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 353.0723847434833 | [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) | 476389434.390754 | 476389433.36575 | | | |
| Observation start date | 2013-02-04T18:23:54 | 2013-02-04T18:23:53 | | | |
| [s] Observation end time (MET) | 476398565.091247 | 476398564.06625 | | | |
| Observation end date | 2013-02-04T20:56:05 | 2013-02-04T20:56:04 | | | |
| 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) | 2013.02.05 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 6.7967999747396 |

A.2 Comments