

V&V Reference Report

L2 ASCDS Version : 8.1.2

Observation 62714 - L2 Version 5

Chandra X-Ray Center

L2 Processing Date : Mar 31 2010

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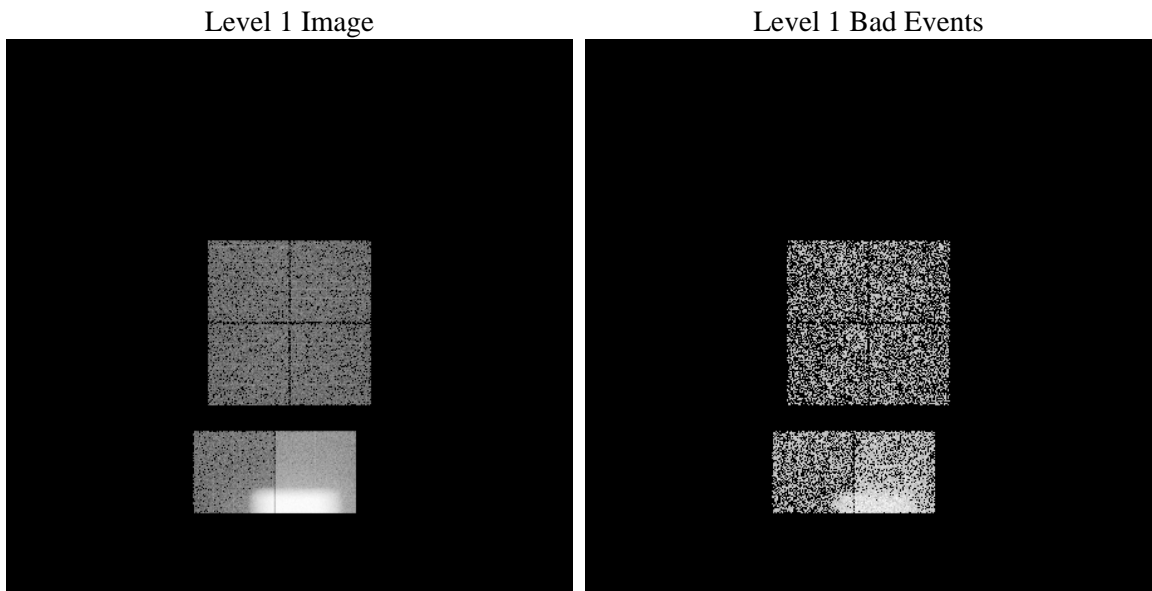
1 Front

| | | |
|----------|---|---|
| seq_num | 0 | Sequence number |
| obs_id | 62714 | Observation id |
| title | ACIS internal cal | Proposal title |
| observer | CHANDRA orbital activation and checkout | Principal investigator |
| object | | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 0.0 | Observer's specified target RA |
| dec_targ | 0.0 | Observer's specified target Dec |
| ra_nom | 181.22162676123 | Nominal RA |
| dec_nom | 5.1289780394672 | Nominal Dec |
| roll_nom | 251.9179748683 | Nominal Roll |
| revision | 5 | Processing version of data |
| ontime | 4068.8999963254 | Sum of GTIs [s] |
| livetime | 4018.9192550445 | Livetime [s] |
| ontime0 | 4068.8999963254 | Sum of GTIs [s] |
| ontime1 | 4068.8999963254 | Sum of GTIs [s] |
| ontime2 | 4068.8999963254 | Sum of GTIs [s] |
| ontime3 | 4068.8999963254 | Sum of GTIs [s] |
| ontime6 | 4068.8999963254 | Sum of GTIs [s] |
| ontime7 | 4068.8999963254 | Sum of GTIs [s] |
| l2events | 329429 | Number of level 2 events |

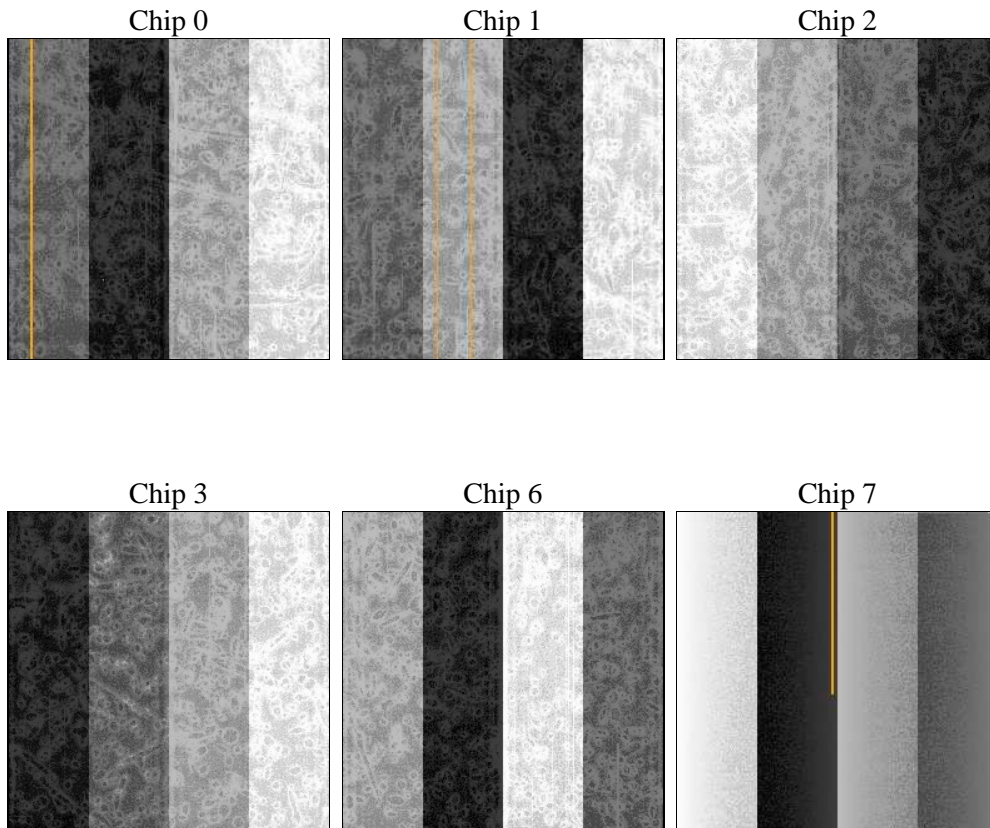
2 OBI

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 | Scheduled observation exposure time |
| ascdsver | 8.2.1 | ASCDS version number | ontime | 4068.8999963254 | Sum of GTIs [s] |
| caldsver | 4.1.5 | | ontime0 | 4068.8999963254 | Sum of GTIs [s] |
| date | 2010-03-31T19:56:42 | Date and time of file creation | ontime1 | 4068.8999963254 | Sum of GTIs [s] |
| revision | 5 | Processing version of data | ontime2 | 4068.8999963254 | Sum of GTIs [s] |
| | | | ontime3 | 4068.8999963254 | Sum of GTIs [s] |
| | | | ontime6 | 4068.8999963254 | Sum of GTIs [s] |
| | | | ontime7 | 4068.8999963254 | Sum of GTIs [s] |
| | | | l1events | 356576 | Number of level 1 events |

2.1.4 Events

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|-----------------|-------|-------|-------|-------|-------|--------|
| level 1 events | 10362 | 10443 | 10293 | 9943 | 57434 | 258101 |
| rejected events | 2864 | 2867 | 2817 | 2871 | 3928 | 7689 |
| rejected % | 27% | 27% | 27% | 28% | 6% | 2% |

| | ccd 0 | ccd 1 | ccd 2 | ccd 3 | ccd 6 | ccd 7 |
|----------------|-------|-------|-------|-------|-------|--------|
| grade 0 events | 1820 | 1812 | 1887 | 1713 | 21755 | 51345 |
| | 17% | 17% | 18% | 17% | 37% | 19% |
| grade 1 events | 17 | 18 | 23 | 24 | 177 | 242 |
| | 0% | 0% | 0% | 0% | 0% | 0% |
| grade 2 events | 1620 | 1554 | 1629 | 1537 | 10065 | 57495 |
| | 15% | 14% | 15% | 15% | 17% | 22% |
| grade 3 events | 689 | 782 | 715 | 697 | 3982 | 20794 |
| | 6% | 7% | 6% | 7% | 6% | 8% |
| grade 4 events | 705 | 723 | 640 | 666 | 3862 | 20361 |
| | 6% | 6% | 6% | 6% | 6% | 7% |
| grade 5 events | 2826 | 2839 | 2785 | 2841 | 3663 | 7030 |
| | 27% | 27% | 27% | 28% | 6% | 2% |
| grade 6 events | 2679 | 2715 | 2614 | 2465 | 13930 | 100834 |
| | 25% | 25% | 25% | 24% | 24% | 39% |
| grade 7 events | 6 | 0 | 0 | 0 | 0 | 0 |
| | 0% | 0% | 0% | 0% | 0% | 0% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|-----------------------|---------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 6 | 6 |
| Detector | ACIS-012367 | ACIS-012367 | Obspar file type | PREDICTED | ACTUAL |
| Grating | NONE | NONE | Obspar update status | NONE | UPDATED |
| Data mode | FAINT | FAINT | On-chip summing requested | N | N |
| Observation mode | SECONDARY | SECONDARY | Subarray requested | NONE | NONE |
| Pointing RA | 0 | 181.2216267612349 | Alternating exposures requested | N | N |
| Pointing Dec | 0 | 5.128978039467192 | Primary exposure time | 0.000000 | 3.3 |
| Pointing Roll | 0.0 | 251.9179748682954 | | | |
| SIM focus pos (mm) | -0.782348 | 0.255451383487682 | | | |
| SIM defocus (mm) | 0 | 0.9397188447875782 | | | |
| SIM translation stage pos (mm) | -233.592463 | -190.1325231039672 | | | |
| SIM translation stage offset (mm) | 0 | 5.209593894051068e-07 | | | |
| Observation start time | 50451401.079 | 50451400.567012 | | | |
| Observation start date | 1999-08-07T22:16:41 | 1999-08-07T22:16:40 | | | |
| Observation end time | 50457180.029 | 50457179.517216 | | | |
| Observation end date | 1999-08-07T23:53:00 | 1999-08-07T23:52:59 | | | |
| 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) | 2010.08.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 4.0688999963254 |

A.2 Comments

This ACIS internal calibration observation was acquired before the ACIS door was open. A reflection of the door is visible in the image.