

V&V Reference Report

L2 ASCDS Version : 10.4.1

Observation 51692 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Aug 14 2015

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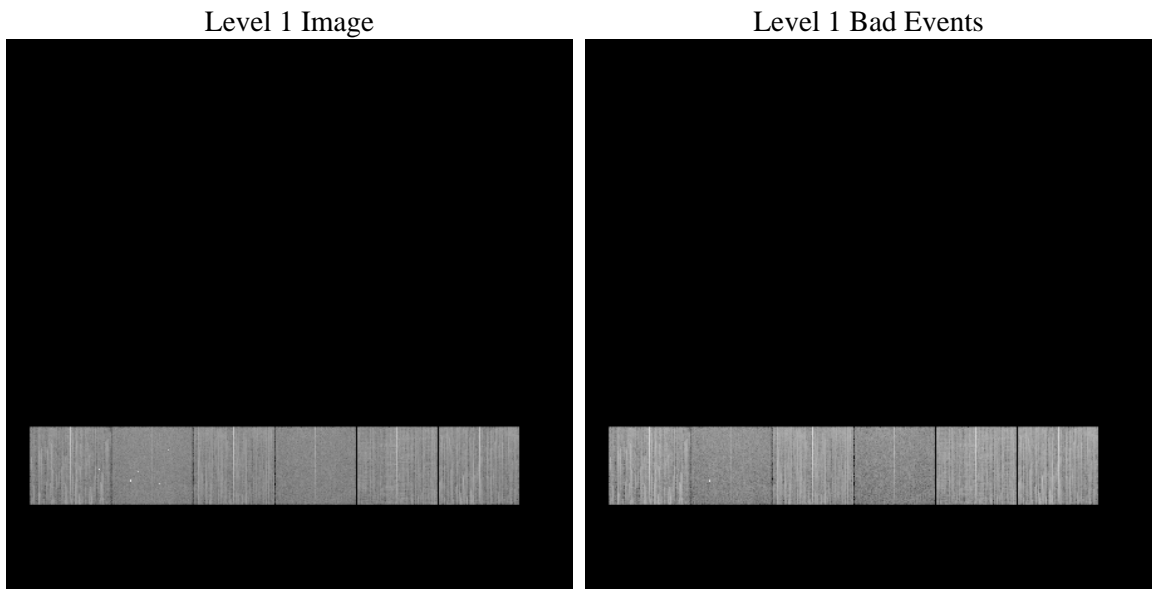
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 51692 | Observation id |
| title | ACIS-456789 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 | 318.03440079742 | Nominal RA [deg] |
| dec_nom | -38.489510733778 | Nominal Dec [deg] |
| roll_nom | 348.55576841531 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8246.4001228809 | Sum of GTIs [s] |
| livetime | 8141.979239139 | Livetime [s] |
| ontime4 | 8246.4001228809 | Sum of GTIs [s] |
| ontime5 | 8246.4001228809 | Sum of GTIs [s] |
| ontime6 | 8246.4001228809 | Sum of GTIs [s] |
| ontime7 | 8246.4001228809 | Sum of GTIs [s] |
| ontime8 | 8243.1590526104 | Sum of GTIs [s] |
| ontime9 | 8246.4001228809 | Sum of GTIs [s] |
| l2events | 182289 | Number of level 2 events |

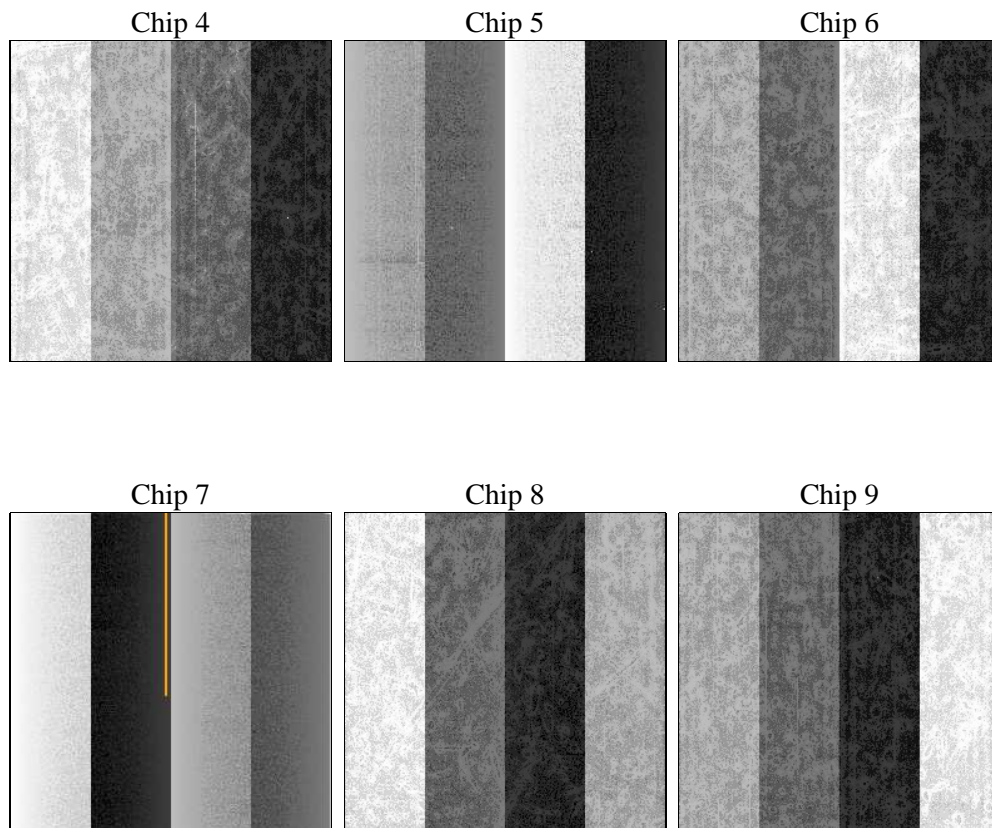
2 OBI

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 | 10.4.1 | Processing system revision | ontime | 8246.4001228809 | Sum of GTIs [s] |
| caldsver | 4.6.8 | | ontime4 | 8246.4001228809 | Sum of GTIs [s] |
| date | 2015-08-14T16:19:16 | Date and time of file creation | ontime5 | 8246.4001228809 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime6 | 8246.4001228809 | Sum of GTIs [s] |
| | | | ontime7 | 8246.4001228809 | Sum of GTIs [s] |
| | | | ontime8 | 8243.1590526104 | Sum of GTIs [s] |
| | | | ontime9 | 8246.4001228809 | Sum of GTIs [s] |
| | | | l1events | 904398 | Number of level 1 events |

2.1.4 Events

| | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 | | ccd 4 | ccd 5 | ccd 6 | ccd 7 | ccd 8 | ccd 9 |
|-----------------|--------|--------|--------|--------|--------|--------|----------------|--------|-------|--------|-------|--------|--------|
| level 1 events | 159138 | 131085 | 160041 | 119582 | 165757 | 168795 | grade 0 events | 13890 | 5418 | 10338 | 5647 | 13370 | 10391 |
| rejected events | 133810 | 76164 | 136771 | 71404 | 133228 | 146288 | | 8% | 4% | 6% | 4% | 8% | 6% |
| rejected % | 84% | 58% | 85% | 59% | 80% | 86% | grade 1 events | 112 | 140 | 51 | 90 | 78 | 67 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 4666 | 19862 | 5422 | 12199 | 7152 | 4707 |
| | | | | | | | | 2% | 15% | 3% | 10% | 4% | 2% |
| | | | | | | | grade 3 events | 1646 | 1642 | 1468 | 3469 | 2641 | 1648 |
| | | | | | | | | 1% | 1% | 0% | 2% | 1% | 0% |
| | | | | | | | grade 4 events | 1628 | 1472 | 1466 | 3357 | 2444 | 1547 |
| | | | | | | | | 1% | 1% | 0% | 2% | 1% | 0% |
| | | | | | | | grade 5 events | 3238 | 5743 | 3058 | 7160 | 3968 | 3565 |
| | | | | | | | | 2% | 4% | 1% | 5% | 2% | 2% |
| | | | | | | | grade 6 events | 3498 | 26527 | 4576 | 23506 | 6922 | 4214 |
| | | | | | | | | 2% | 20% | 2% | 19% | 4% | 2% |
| | | | | | | | grade 7 events | 130460 | 70281 | 133662 | 64154 | 129182 | 142656 |
| | | | | | | | | 81% | 53% | 83% | 53% | 77% | 84% |

2.2 Compared Parameters

| Parameter | Planned | Actual | Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|---------------------------------------|-----------|---------|
| Instrument | ACIS | ACIS | Obspar format version number | 7 | 7 |
| Detector | ACIS-456789 | ACIS-456789 | 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 | 318.0344007974169 | Subarray requested | NONE | NONE |
| [deg] Pointing Dec | 0 | -38.48951073377766 | Alternating exposures requested | N | N |
| [deg] Pointing Roll | 0.0 | 348.5557684153093 | [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) | 555875398.727868 | 555875397.70287 | | | |
| Observation start date | 2015-08-13T17:49:59 | 2015-08-13T17:49:57 | | | |
| [s] Observation end time (MET) | 555886538.428496 | 555886537.4035 | | | |
| Observation end date | 2015-08-13T20:55:38 | 2015-08-13T20:55:37 | | | |
| 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) | 2015.08.14 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2464001228809 |

A.2 Comments