

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 60601 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Nov 2 2012

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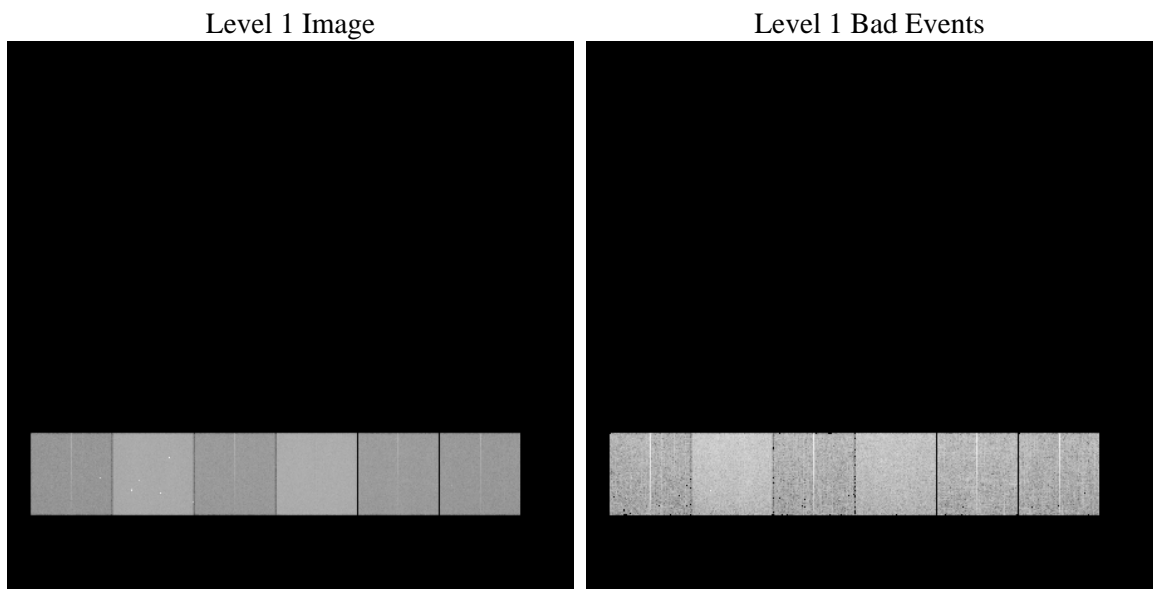
1 Front

| | | |
|----------|-------------------------------------------------|---------------------------------------------|
| seq_num | | Sequence number |
| obs_id | 60601 | 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 | 220.59427776566 | Nominal RA [deg] |
| dec_nom | -10.8988148123 | Nominal Dec [deg] |
| roll_nom | 252.42297520421 | Nominal Roll [deg] |
| revision | 3 | Processing version of data |
| ontime | 12201.327761918 | Sum of GTIs [s] |
| livetime | 12046.827203039 | Livetime [s] |
| ontime4 | 5660.9181764424 | Sum of GTIs [s] |
| ontime5 | 12201.286721915 | Sum of GTIs [s] |
| ontime6 | 6156.8320782781 | Sum of GTIs [s] |
| ontime7 | 12201.327761918 | Sum of GTIs [s] |
| ontime8 | 6320.0035936832 | Sum of GTIs [s] |
| ontime9 | 5924.6016359329 | Sum of GTIs [s] |
| l2events | 1801134 | Number of level 2 events |

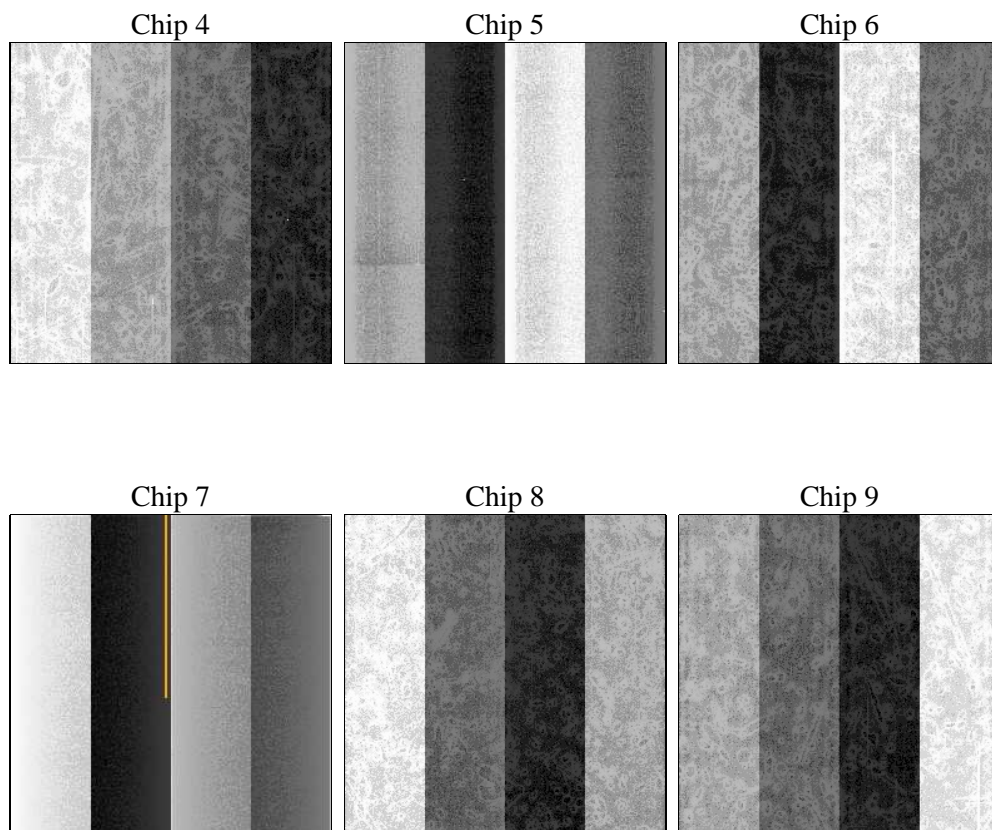
2 OBI

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 | 8.4.5 | Processing system revision | ontime | 12201.327761918 | Sum of GTIs [s] |
| caldbver | 4.5.2 | | ontime4 | 5660.9181764424 | Sum of GTIs [s] |
| date | 2012-11-02T01:41:19 | Date and time of file creation | ontime5 | 12201.286721915 | Sum of GTIs [s] |
| revision | 3 | Processing version of data | ontime6 | 6156.8320782781 | Sum of GTIs [s] |
| | | | ontime7 | 12201.327761918 | Sum of GTIs [s] |
| | | | ontime8 | 6320.0035936832 | Sum of GTIs [s] |
| | | | ontime9 | 5924.6016359329 | Sum of GTIs [s] |
| | | | l1events | 2207997 | 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 | 253115 | 523271 | 290970 | 562166 | 306444 | 272031 | grade 0 events | 123271 | 110969 | 135495 | 125470 | 140664 | 126088 |
| rejected events | 40879 | 77193 | 41873 | 63666 | 48280 | 41878 | | 48% | 21% | 46% | 22% | 45% | 46% |
| rejected % | 16% | 14% | 14% | 11% | 15% | 15% | grade 1 events | 971 | 445 | 683 | 337 | 687 | 738 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 33597 | 155880 | 42624 | 109780 | 44852 | 39440 |
| | | | | | | | | 13% | 29% | 14% | 19% | 14% | 14% |
| | | | | | | | grade 3 events | 13953 | 28243 | 15691 | 49689 | 16525 | 14371 |
| | | | | | | | | 5% | 5% | 5% | 8% | 5% | 5% |
| | | | | | | | grade 4 events | 14035 | 27563 | 15301 | 49755 | 16794 | 14818 |
| | | | | | | | | 5% | 5% | 5% | 8% | 5% | 5% |
| | | | | | | | grade 5 events | 2569 | 13289 | 3055 | 12196 | 3489 | 2985 |
| | | | | | | | | 1% | 2% | 1% | 2% | 1% | 1% |
| | | | | | | | grade 6 events | 27380 | 123423 | 39986 | 163806 | 39329 | 35436 |
| | | | | | | | | 10% | 23% | 13% | 29% | 12% | 13% |
| | | | | | | | grade 7 events | 37339 | 63459 | 38135 | 51133 | 44104 | 38155 |
| | | | | | | | | 14% | 12% | 13% | 9% | 14% | 14% |

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 | On-chip summing requested | N | N |
| Observation mode | SECONDARY | SECONDARY | Subarray requested | NONE | NONE |
| [deg] Pointing RA | 0 | 220.5942777656626 | Alternating exposures requested | N | N |
| [deg] Pointing Dec | 0 | -10.89881481230042 | [s] Primary exposure time | 0.000000 | 3.2 |
| [deg] Pointing Roll | 0.0 | 252.4229752042054 | | | |
| [mm] SIM focus pos | -0.684267 | -0.6828225247311905 | | | |
| [mm] SIM defocus | 0 | 0.8505141146731063 | | | |
| [mm] SIM translation stage pos | -190.132523 | 250.466033080201 | | | |
| [mm] SIM translation stage offset | 0 | -0.01005468664627074 | | | |
| [s] Observation start time (MET) | 176359322.827473 | 176359321.80277 | | | |
| Observation start date | 2003-08-04T04:42:03 | 2003-08-04T04:42:01 | | | |
| [s] Observation end time (MET) | 176386438.178629 | 176386437.15393 | | | |
| Observation end date | 2003-08-04T12:13:58 | 2003-08-04T12:13:57 | | | |
| 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) | 2012.11.19 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 12.201327761918 |

A.2 Comments