

V&V Reference Report

L2 ASCDS Version : 10.1.1

Observation 53136 - L2 Version 1
Chandra X-Ray Center

L2 Processing Date : Dec 24 2013

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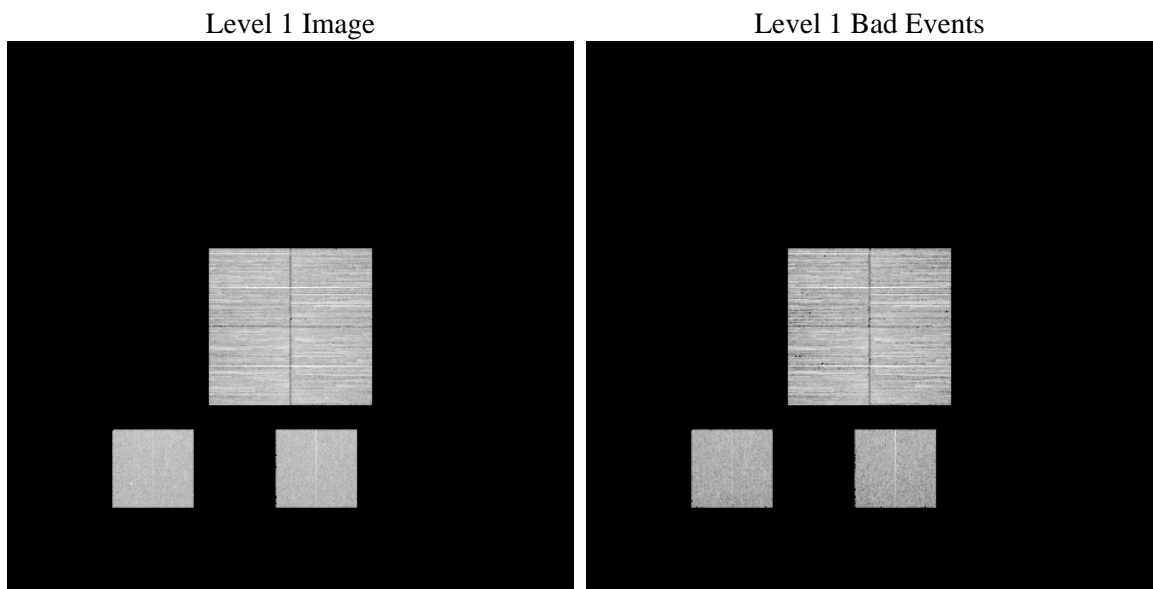
1 Front

| | | |
|----------|---|---|
| seq_num | | Sequence number |
| obs_id | 53136 | 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 | 216.98798432171 | Nominal RA [deg] |
| dec_nom | -24.973412694877 | Nominal Dec [deg] |
| roll_nom | 79.426752435172 | Nominal Roll [deg] |
| revision | 1 | Processing version of data |
| ontime | 8287.9999691844 | Sum of GTIs [s] |
| livetime | 8183.0523231401 | Livetime [s] |
| ontime0 | 8287.9999691844 | Sum of GTIs [s] |
| ontime1 | 8287.9999691844 | Sum of GTIs [s] |
| ontime2 | 8287.9999691844 | Sum of GTIs [s] |
| ontime3 | 8287.9999691844 | Sum of GTIs [s] |
| ontime5 | 8287.9999691844 | Sum of GTIs [s] |
| ontime7 | 8287.9999691844 | Sum of GTIs [s] |
| l2events | 213309 | Number of level 2 events |

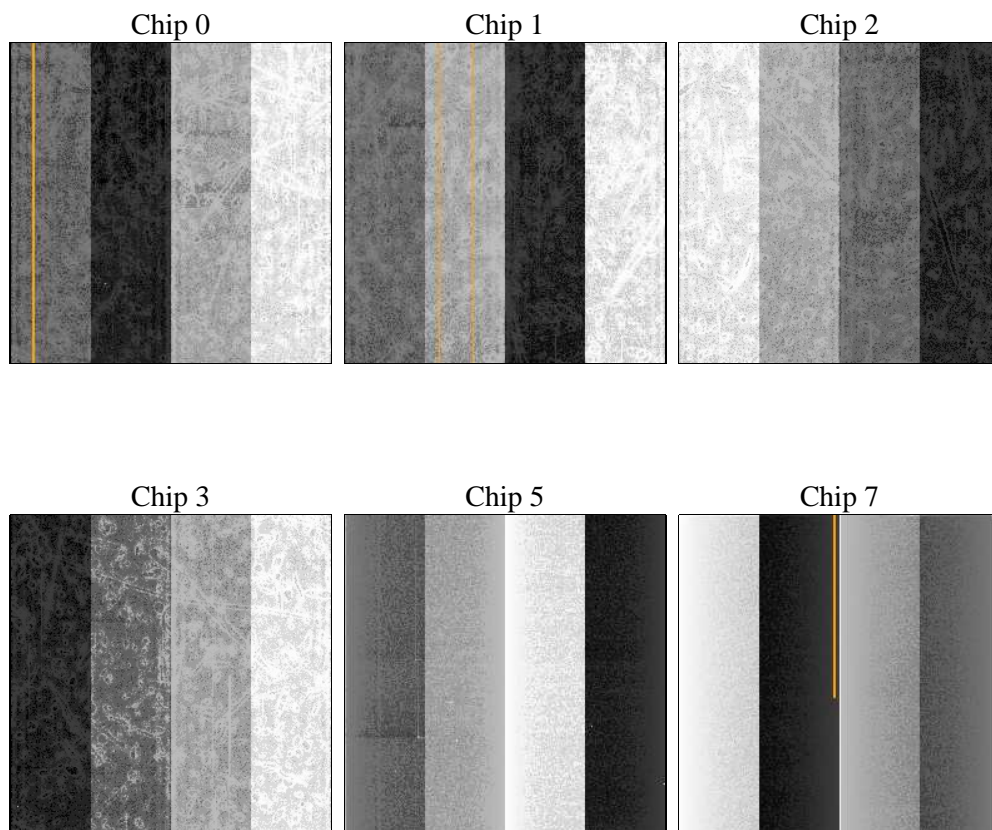
2 OBI

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 | 10.1.1 | Processing system revision | ontime | 8287.9999691844 | Sum of GTIs [s] |
| caldsver | 4.6.0 | | ontime0 | 8287.9999691844 | Sum of GTIs [s] |
| date | 2013-12-24T22:11:33 | Date and time of file creation | ontime1 | 8287.9999691844 | Sum of GTIs [s] |
| revision | 1 | Processing version of data | ontime2 | 8287.9999691844 | Sum of GTIs [s] |
| | | | ontime3 | 8287.9999691844 | Sum of GTIs [s] |
| | | | ontime5 | 8287.9999691844 | Sum of GTIs [s] |
| | | | ontime7 | 8287.9999691844 | Sum of GTIs [s] |
| | | | l1events | 821703 | 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 | 136299 | 140174 | 152541 | 149286 | 125110 | 118293 | grade 0 events | 14358 | 13847 | 14937 | 14710 | 5163 | 7635 |
| rejected events | 107858 | 111783 | 123805 | 120767 | 68952 | 64777 | | 10% | 9% | 9% | 9% | 4% | 6% |
| rejected % | 79% | 79% | 81% | 80% | 55% | 54% | grade 1 events | 89 | 66 | 96 | 84 | 105 | 98 |
| | | | | | | | | 0% | 0% | 0% | 0% | 0% | 0% |
| | | | | | | | grade 2 events | 5709 | 5978 | 5562 | 5461 | 20921 | 13033 |
| | | | | | | | | 4% | 4% | 3% | 3% | 16% | 11% |
| | | | | | | | grade 3 events | 1897 | 1833 | 1907 | 2002 | 1995 | 4336 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 4 events | 1942 | 1941 | 2035 | 2052 | 2019 | 4358 |
| | | | | | | | | 1% | 1% | 1% | 1% | 1% | 3% |
| | | | | | | | grade 5 events | 2793 | 2808 | 2758 | 3061 | 5793 | 7277 |
| | | | | | | | | 2% | 2% | 1% | 2% | 4% | 6% |
| | | | | | | | grade 6 events | 4545 | 4809 | 4305 | 4308 | 26082 | 24178 |
| | | | | | | | | 3% | 3% | 2% | 2% | 20% | 20% |
| | | | | | | | grade 7 events | 104966 | 108892 | 120941 | 117608 | 63032 | 57378 |
| | | | | | | | | 77% | 77% | 79% | 78% | 50% | 48% |

2.2 Compared Parameters

| Parameter | Planned | Actual |
|-----------------------------------|---------------------|----------------------|
| Instrument | ACIS | ACIS |
| Detector | ACIS-012357 | ACIS-012357 |
| Grating | NONE | NONE |
| Data mode | FAINT | FAINT |
| Observation mode | SECONDARY | SECONDARY |
| [deg] Pointing RA | 0 | 216.9879843217125 |
| [deg] Pointing Dec | 0 | -24.97341269487724 |
| [deg] Pointing Roll | 0.0 | 79.42675243517168 |
| [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) | 504269021.80812 | 504269020.78312 |
| Observation start date | 2013-12-24T10:43:42 | 2013-12-24T10:43:40 |
| [s] Observation end time (MET) | 504282314.008849 | 504282312.98385 |
| Observation end date | 2013-12-24T14:25:14 | 2013-12-24T14:25:12 |
| Read mode | TIMED | TIMED |

| Parameter | Planned | Actual |
|---------------------------------------|-----------|---------|
| Obspar format version number | 7 | 7 |
| Obspar file type | PREDICTED | ACTUAL |
| Obspar update status | NONE | UPDATED |
| Number of optional ACIS chips dropped | 0 | 0 |
| 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 | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2013.12.26 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 8.2879999691844 |

A.2 Comments