

V&V Summary Report

L2 ASCDS Version : 10.1

Observation 16245 - L2 Version 2
Chandra X-Ray Center

L2 Processing Date : Dec 9 2014

See [axaff16245N002_VV001_vvref2.pdf](#) for the full report

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|----------------------------|---------------|
| V&V Scientist | Beth Sundheim |
| V&V Date (YYYY-MM-DD) | 2014.12.16 |
| V&V Edition | 1 |
| V&V Disposition and Status | OK |
| V&V Charge Time | 10 |

Comments

A non-standard dither was used for this observation. Charge time is set to the scheduled time for this observation, although the ontime is lower due to telemetry saturation. In addition, the livetime of the detector is about 1289 s, significantly shorter than the ontime value of 7428 s. This is because the frame time of 0.2 s is shorter than the minimum time that it takes to read out the detector (about 0.9 s) in the specified configuration. Therefore, there is a flush of 0.9 s preceding each frame. This flush time is dead time. These data have been reprocessed with new aspect alignment calibration files that correct small mean offsets (up to 0.4 arcsecs) and improve overall astrometric accuracy. The new calibration was determined using data from the time period being reprocessed and was performed using cross-correlation of X-ray sources with radio and optical counterparts.

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|----------|---|---|
| seq_num | 502245 | Sequence number |
| obs_id | 16245 | Observation id |
| title | Pre-Planned Target of Opportunity (ToO) Observations of the Crab Nebula upon the Occurrence of the Next Gamma-Ray Flare | Proposal titl |
| observer | Dr. Martin Weisskopf | Principal investigator |
| object | Crab | Source name |
| dtcycle | 0 | |
| cycle | P | events from which exps? Prim/Second/Both |
| ra_targ | 83.631667 | Observer's specified target RA [deg] |
| dec_targ | 22.015667 | Observer's specified target Dec [deg] |
| ra_nom | 83.633309826801 | Nominal RA [deg] |
| dec_nom | 22.018495616794 | Nominal Dec [deg] |
| roll_nom | 91.806538621165 | Nominal Roll [deg] |
| revision | 2 | Processing version of data |
| ontime | 7427.9354381561 | Sum of GTIs [s] |
| livetime | 1289.4378082416 | Livetime [s] |
| ontime7 | 7427.9354381561 | Sum of GTIs [s] |
| l2events | 3531048 | Number of level 2 events |

