

# V&V Summary Report

## L2 ASCDS Version : 8.5.1.1

Observation 14685 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Dec 1 2014

See axaff14685N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2014.12.09
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	10

## Comments

Charge time is set to the scheduled time for this observation, although the ontime is 7175 s, which is significantly less due to telemetry saturation. In addition, the livetime of the detector is about 1246 s, significantly shorter than the ONTIME of 7175 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 0.90588 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.

seq_num	501819	Sequence number
obs_id	14685	Observation id
title	Pre-planned Target of Opportunity Observations of the Crab Nebula upon the Occurrence of a Gamma-Ray Flare	Proposal title
observer	Dr. Martin Weisskopf	Principal investigator
object	Crab	Source name
dtcycle	0	&#160
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	83.630086601904	Nominal RA [deg]
dec_nom	22.012807743766	Nominal Dec [deg]
roll_nom	272.89963170214	Nominal Roll [deg]
revision	2	Processing version of data
ontime	7175.2527968287	Sum of GTIs [s]
liveltime	1246.0064593528	Livetime [s]
ontime7	7175.2527968287	Sum of GTIs [s]
l2events	3499628	Number of level 2 events

