

# V&V Summary Report

## L2 ASCDS Version : 10.7.1

Observation 20304 - L2 Version 2  
Chandra X-Ray Center

L2 Processing Date : Jun 10 2019

See axaff20304N002\_VV001\_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2019.06.11
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.123200216413

## Comments

One optional chip was dropped.

A spatial region of the original bias map for CCD = 3 suffered from anomalously high data values. Pixels in the event data that were bias-corrected by one of the original affected bias pixels may have an apparent energy shift. While the change in energy is expected to be small (~20 eV), it depends on many parameters that have not yet been fully explored for this bias anomaly. The bias map for CCD = 3 has been reconstructed for this processing to remove this anomaly using scaled data from a comparable bias map from another observation. The pixels affected by the anomaly are bounded by sky coords:

(257.16087,-44.49430), (257.16126,-44.49756), (257.20867,-44.49457),  
(257.20637,-44.49143).

seq_num	502999	Sequence number
obs_id	20304	Observation id
title	The Answer is Blowing in the Wind: Jet Sweepback in Three PWNe	Pro
observer	Roger Romani	Principal investigator
object	PSR J1709-4429	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	257.427724	Observer's specified target RA [deg]
dec_targ	-44.485585	Observer's specified target Dec [deg]
ra_nom	257.35419617563	Nominal RA [deg]
dec_nom	-44.48685671929	Nominal Dec [deg]
roll_nom	5.1571769723765	Nominal Roll [deg]
revision	2	Processing version of data
ontime	28123.200216413	Sum of GTIs [s]
livetime	27755.749901586	Livetime [s]
ontime1	28120.059235692	Sum of GTIs [s]
ontime2	28123.200216413	Sum of GTIs [s]
ontime3	28120.059176207	Sum of GTIs [s]
l2events	74900	Number of level 2 events

