

V&V Summary Report

L2 ASCDS Version : 10.9.2

Observation 20284 - L2 Version 3
Chandra X-Ray Center

L2 Processing Date : Oct 26 2020

See axaff20284N003_VV001_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.28
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	3.546347668767

Comments

A spatial region of the original bias maps for CCD = 2 and 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: (236.41044,-53.36751), (236.41624,-53.36968), (236.47663,-53.31199), (236.47276,-53.30797).

===

The bias map for CCD = 2 could not be improved because no suitable data at a compatible temperature and time range are available to use as replacement values. The bias map used in this processing is the original bias map telemetered with the observation.

seq_num	502983	Sequence number
obs_id	20284	Observation id
title	Where Have All the Central Compact Objects Gone?	Proposal title
observer	Eric Gotthelf	Principal investigator
object	PSR J1544-5308	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	236.249167	Observer's specified target RA [deg]
dec_targ	-53.14625	Observer's specified target Dec [deg]
ra_nom	236.24989852389	Nominal RA [deg]
dec_nom	-53.147544030024	Nominal Dec [deg]
roll_nom	57.814928344714	Nominal Roll [deg]
revision	3	Processing version of data
ontime	3546.3476705551	Sum of GTIs [s]
liveltime	3500.0120274561	Livetime [s]
ontime2	3546.1835105419	Sum of GTIs [s]
ontime3	3546.2655905485	Sum of GTIs [s]
ontime6	3546.3066306114	Sum of GTIs [s]
ontime7	3546.3476705551	Sum of GTIs [s]
ontime8	3546.2245506048	Sum of GTIs [s]
l2events	24433	Number of level 2 events

