

# V&V Summary Report

## L2 ASCDS Version : 10.9.1

Observation 6384 - L2 Version 5  
Chandra X-Ray Center

L2 Processing Date : Oct 10 2020

See axaff06384N005\_VV001\_vvref2.pdf for the full report

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2020.10.22
V&V Edition	1
V&V Disposition and Status	Repr+DD
V&V Charge Time	22.45119

## Comments

SAP Team: please reprocess using replacement bias file for chip 0.

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The bias map for CCD\_ID = 0 suffers from anomalously high bias values in an 'exacto-knife'-shaped area of the bias file. Pixels in the event data that have been bias-corrected by one of the 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\_ID = 0 will be recreated to remove this anomaly and the data will be reprocessed.

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As a consequence of the DEA-A shutdown anomaly on Sep 15th (DOY258), the reported value of the ACIS FP temperature was ~1.3 degrees warmer than the actual temperature. The value for FP temperature reported in the headers of the Level 2 event file and the Mission Timeline files ARE INCORRECT by this amount for this processing. However, the temperature is corrected in the processing in order to obtain the correct temperature for the CTI correction. So the calibrated data are correct.

seq_num	600486	Sequence number
obs_id	6384	Observation id
title	The Chandra ACIS Survey of M33 (ChASeM33): A Deep Survey of the Nearest Face-on Spiral Galaxy	Proposal title
observer	Manami Sasaki	Principal investigator
object	M33	Source name
dtcycle	0	&#160
cycle	P	events from which exps? Prim/Second/Both
ra_targ	23.36625	Observer's specified target RA [deg]
dec_targ	30.523694	Observer's specified target Dec [deg]
ra_nom	23.366786133847	Nominal RA [deg]
dec_nom	30.528860053766	Nominal Dec [deg]
roll_nom	145.70700353143	Nominal Roll [deg]
revision	5	Processing version of data
ontime	22451.199916363	Sum of GTIs [s]
livetime	22166.909304532	Livetime [s]
ontime0	22451.199916363	Sum of GTIs [s]
ontime1	22451.199916363	Sum of GTIs [s]
ontime2	22451.199916363	Sum of GTIs [s]
ontime3	22451.199916363	Sum of GTIs [s]
ontime6	22451.199916363	Sum of GTIs [s]
ontime7	22451.199916363	Sum of GTIs [s]
l2events	132842	Number of level 2 events

