

Author's response

Both reviewers are satisfied that the authors have taken into consideration all of their suggested corrections from the first round of reviews. The manuscript is now ready for publication pending a minor technical correction.

Figures 6 to 9: Each panel now has just a dashed red line for MHW mixed layer depth and a dashed blue line for non-MHW mixed layer depth. Please update the legends on each of these figures with just a dashed red and dashed blue line.

Response: We thank both the reviewers for their detailed review with great insights. Thank you for pointing this out, we have modified Figures 6-9 accordingly.