

RESPONSE TO THE EDITOR

We thank the Editor for the final comments. Our responses are given in bold blue below. Note that the tracking file includes these new changes as well as the previous changes made in response to the comments of RC1 and RC2.

Public justification (visible to the public if the article is accepted and published):

1) Line 220: Please also revise "SPB" to "SBP. (Reviewer #2 comment)

The Fig. 10 title has been corrected to show "SBP". Thank you.

2) Please provide a simple description and references for some methods used such as wave coupling (Reviewer #1 comment)

In our previous response to Reviewer #1, we added a sentence with specific details on how the coupling is done. However, we did not fully address Reviewer #1's comment on directional drags. We added a sentence on how the directional drag is done as well as a final sentence with references (requested by the Editor) for how wave coupling is done in the COAWST model. Please see the new paragraph below on L89-94.

"Every 30 minutes, the WRF model 10-m zonal and meridional velocities are passed to WW3 and the wave characteristics (significant wave height, wave period, and wavelength) are passed to the WRF model surface-layer parameterization. In the surface-layer parameterization, the time-varying surface roughness length is calculated from the wave parameters (Taylor and Yelland, 2001), with a specified Charnock parameter relation. The momentum stress vector accounts for the directional discrepancy between wind vectors and wave fields. More details on the wave-atmosphere coupling in the COAWST model can be found in Gaudet et al. (2024), Warner et al. (2010), and Pringle and Kotamarthi (2021)."

Notification to the authors:

1. Code and data availability section: please add an in-text citation behind the Zenodo link and add this citation to your reference list. Please see the guidelines at:

https://www.geoscientific-model-development.net/policies/code_and_data_policy.html 2.

The in-text citation has been added. Please see L331. The citation has been added to the reference list. Please see L381.. The reference is also listed below for your information.

Hendricks, E. A.: COAWST 1D and 3D PBL simulation codebases, namelists, and observations [Data set], Zenodo, <https://doi.org/10.5281/zenodo.18157794>, 2026

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All suggested changes have been made to Figure 1.