

Geosci. Model Dev. Discuss., author comment AC1  
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## Reply on CEC1

Zhanpeng Zhuang et al.

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Author comment on "Improved upper-ocean thermodynamical structure modeling with combined effects of surface waves and  $M_2$  internal tides on vertical mixing: a case study for the Indian Ocean" by Zhanpeng Zhuang et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2022-110-AC1>, 2022

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Dear Chief Editor,

We thank you for careful reviews and constructive comments in improving the original manuscript. We have read the Code and Data Policy carefully and published our code and data in compliance with the policy.

The MASNUM ocean circulation model V2.0 is available on Zenodo: <https://doi.org/10.5281/zenodo.6717314>. The MASNUM wave spectrum model V3.0 is available on Zenodo: <https://doi.org/10.5281/zenodo.6719479>. All configuration, preprocessing and post processing subroutines are included in these repositories.

All of the data used in this article have been saved in the NetCDF format, compressed and stored in the ZIP format and uploaded on the Zenodo: <https://doi.org/10.5281/zenodo.6749788>.

As you suggests, the GPLv3 license file has been uploaded on the Zenodo with our codes and data which was named as "license.txt".

The link in the 'Code and Data Availability' section is also updated in the attached revised manuscript.

Zhanpeng Zhuang