

Geosci. Model Dev. Discuss., chief editor comment CEC2
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Reply on EC1

Juan Antonio Añel

Chief editor comment on "Comparison of ocean heat content from two eddy-resolving hindcast simulations with OFES1 and OFES2" by Fanglou Liao et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2021-95-CEC2>, 2021

Dear Qiang (and authors),

I am aware of what you mention. Being bad enough that the research is based on a model that we can not audit, the text should include an explicit mention of this. At the moment, the fact that the authors have not run the model but only tested downloaded data is not clear enough.

Also, my comment applies to the Teos-10 software. Here there are two issues: First, the authors do not clarify what version of this software they use: Fortran, C, etc. Also, the software is on a webpage that we can not consider a trustful repository. According to the license of Teos-10, the code can be redistributed. Therefore, the authors should upload the code they have used to one of the repositories that we can accept and provide the DOI for it. Indeed, currently, the 'Excel' version seems to be already stored in Zenodo:
<https://zenodo.org/record/4751051>

Moreover, a Github repository exists. Perhaps it can be used to fork the code and upload the version of the manuscript to Zenodo.
<https://github.com/TEOS-10>

Another issue that I forgot to mention in my previous comment, the link to MOM3 in the 'Code and Data Availability' section is broken. At the moment, it points to "<https://github.com/mom-460>" instead of "<https://github.com/mom-ocean/MOM3>."

Finally, given the small size of some archives (as those of EN4.2.1), it would be good to curate them in Zenodo if possible. For example, today, the JAMSTEC servers are offline because of a security breach. Hopefully, they will come alive at some point, but at the moment, it is not possible to access part of the data for this manuscript.

Best regards,

Juan A. Añel

Geosc. Mod. Dev. Executive Editor