Geoscientific
Model Development
Discussions

Interactive comment on "Increasing vertical mixing to reduce Southern Ocean deep convection in NEMO" *by* C. Heuzé et al.

C. Heuzé et al.

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The editor highlighted the following issues with the manuscript:

... please note that for your paper, the following requirements have not been met in the Discussions paper.

"– All papers must include a model name and version number (or other unique identifier) in the title."

"– The paper must be accompanied by the code, or means of accessing the code, for the purpose of peer-review. If the code is normally distributed in a way which could compromise the anonymity of the referees, then the code must be made available to the editor. The referee/editor is not required to review the code

in any way, but they may do so if they so wish."

"– All papers must include a section at the end of the paper entitled "Code availability". In this section, instructions for obtaining the code (e.g. from a supplement, or from a website) should be included; alternatively, contact information should be given where the code can be obtained on request, or the reasons why the code is not available should be clearly stated."

Please include a version number for the NEMO model and a code availability section in your revised submission to GMD.

We thank the editor for pointing out these issues. They have now been fixed as follows:

- we have added the model number, so that the manuscript title now is "Increasing vertical mixing to reduce Southern Ocean deep convection in NEMO3.4",

- we do not provide the code, but make it clearer that it is because we are using the same code as another experiments, GO5, whose results have been published in GMD as well: "Our "Control" experiment is the GO5 run "amhih" ",

- we have added a Code availability section at the end of the manucript:

"Code availability The model code for NEMO v3.4 is available from the NEMO website (www.nemo-ocean.eu). On registering, individuals can access the FORTRAN code using the open source subversion software (http://subversion.apache.org/). The revision number of the base NEMO code (trunk) used for this paper is 3424. In addition some modifications have been applied to the base code (branches) to create GO5. Please contact Alex Megann (apm@noc.ac.uk) for more information on these branches and how to obtain them.

UK users with access to PUMA (cms.ncas.ac.uk/wiki/PumaService) can copy the job details (job ID amhih) and submit a duplicate job using the Met Office Unified Model user interface (UMUI)."

Interactive comment on Geosci. Model Dev. Discuss., 8, 2949, 2015.

C1385