

We thank the referee again for their thorough reading of our revised manuscript!

Ln. 10 ("GCM data"): change "data" to "simulations"

We implemented the changes exactly as addressed.

Ln. 33: "evidence" -> indirect evidence

We implemented the changes exactly as addressed.

Ln. 42 ("potential"): this change does not really address the issue I meant to express in my previous comment. I would suggest to completely avoid statements like "the AMOC has demonstrated the potential to XYZ" when the "demonstration" is from model experiments and not observed behavior of the real-world AMOC. An alternative way to say this would be e.g. "In several freshwater hosing [...] experiments, the AMOC slows or even shuts down [...]." This is of course only a minor detail.

We implemented the changes exactly as addressed.

Ln. 113: velocity -> meridional velocity

We implemented the changes exactly as addressed.

Fig. 2: I had not noticed this previously, but what is the symbol between boxes 2&5 and 3&4 supposed to represent? It is not shown in the legend of symbols, and it looks a bit messy/hand-drawn. If this is diffusion, you could use the same arrow as elsewhere?

We updated the schematic and included the symbol in the legend. The black coils represent convection – this was mentioned in the description of the figure but not in the legend, an oversight on our part. We thank the referee for this comment!

Eq. (6): watercolumn -> water column

We implemented the changes exactly as addressed.

Ln. 215 ("The weights..."): the beginning of this sentence is repeated.

We removed the repeated beginning.

Appendix A: "Boxmodel" -> Box model

We implemented the changes exactly as addressed.

Typesetting: there may have been a misunderstanding, but I believe "CO<sub>2</sub>" should be written in non-italic (i.e. upright) letters. But this will probably be fixed at the typesetting stage.

We changed the italic "CO<sub>2</sub>" to upright letters.