

On the Strength of the Atlantic Meridional Overturning Circulation

Following Straub (1996) and Greatbatch and Lu (2003) we try to understand the AMOC strength in a simple box model with a channel. Rather than starting with a set of assumptions that allow a solution to the Navier-Stokes equations, we will empirically (with numerical models) determine the impact of various parameters and boundary conditions like Southern Ocean windstress, density gradients, details of the convective parameterization and friction. So far we were not able to bring the results in the form of a simple equation, but we hope that they will inform lively discussions during the meeting.

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