

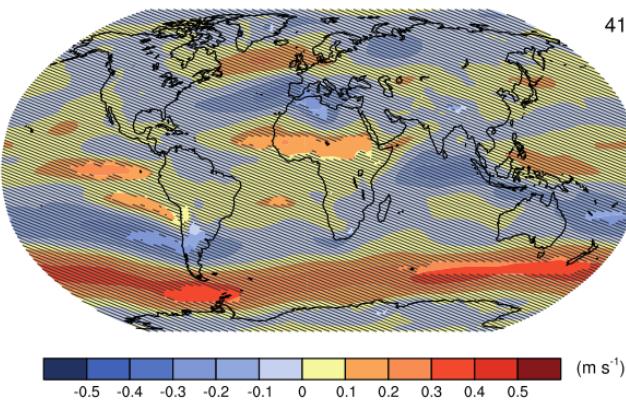
Climate Change Scenario

we explore the independent and isolated impacts of the following three changes in forcing of the MOC on the circulation and explore the climatic implications

WINDS

- studies suggest Southern Ocean winds will get stronger and shift south
- we explore how this will impact AMOC and PMOC

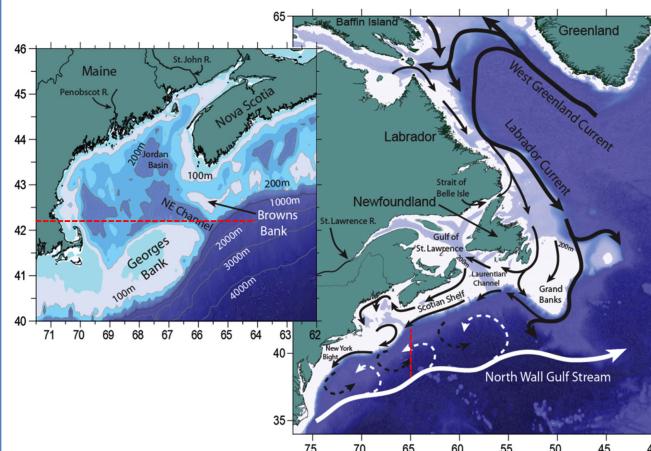
ref: IPCC_AR5_Chapter11_FINAL.pdf



Surface heating in North Atlantic

- studies predict Northwest Atlantic where deep waters form will warm up
- whether AMOC gets weaker or stronger is not settled, and we explore here

ref: North_Atlantic_Climate_change.pdf



Surface freshening around Antarctica

- studies suggest land and sea ice loss will freshen up the Southern Ocean
- we explore how this will impact the MOC

ref: Rintoul_Nature_2018.pdf

