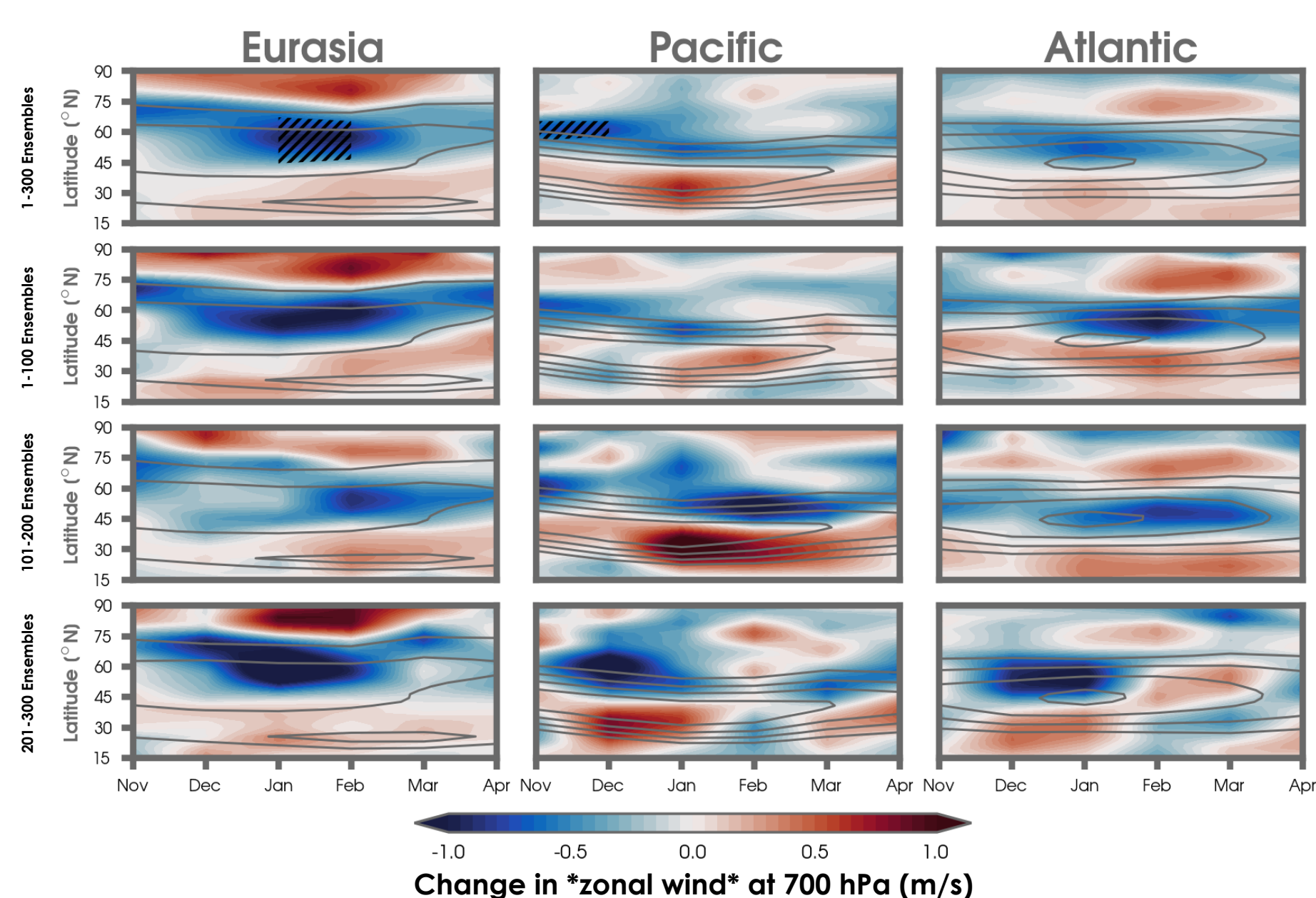
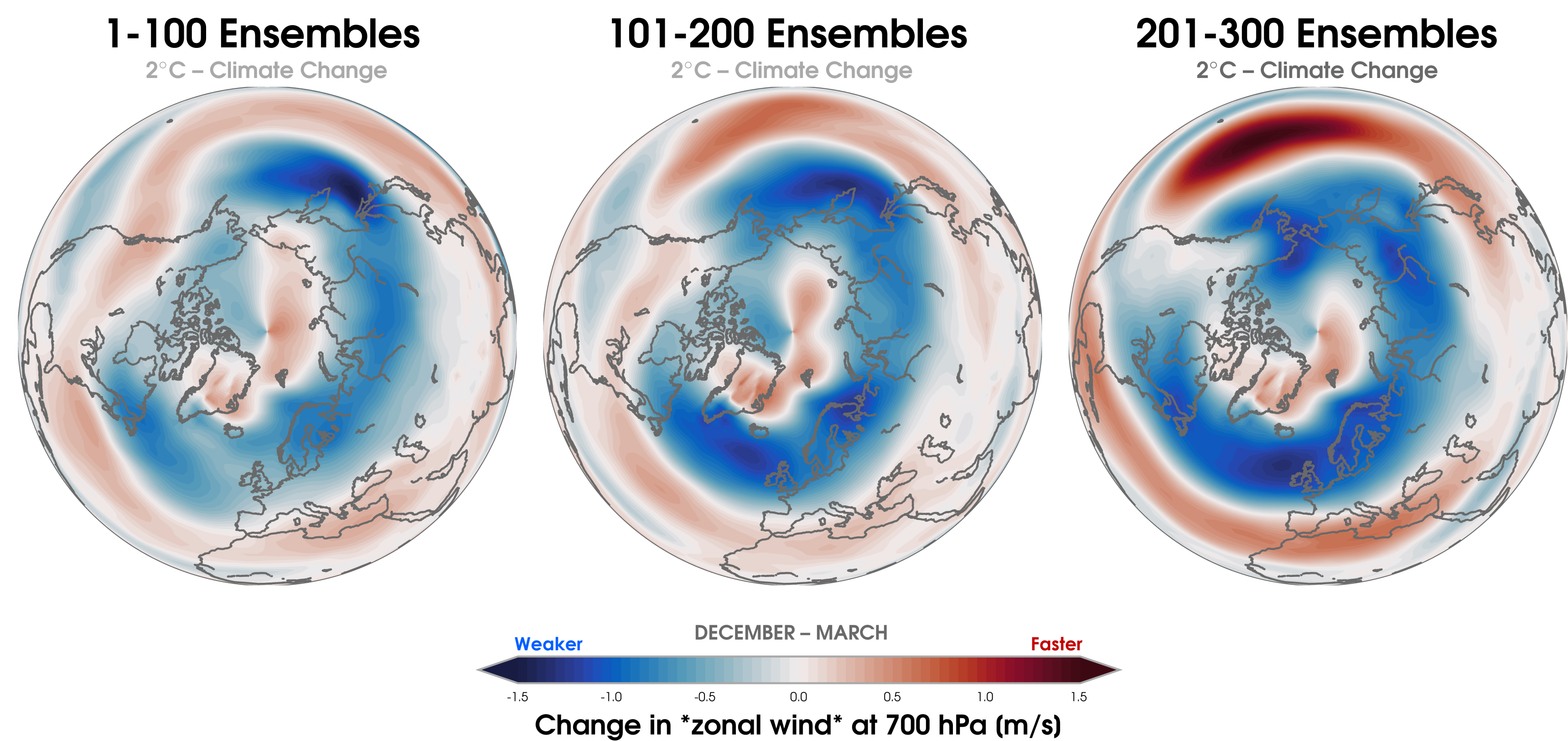


INTERNAL VARIABILITY CAN INFLUENCE JET RESPONSE TO FUTURE ARCTIC SEA-ICE LOSS IN CLIMATE MODELS



We conduct climate model experiments to increase the number of ensemble members to 300, which is beyond the Polar Amplification Model Intercomparison Project (PAMIP) recommendation of 100 ensembles. We find that internal variability can substantially affect the robustness of the polar jet response to Arctic sea-ice loss at 2°C of future climate warming.

Peings, Y., **Z.M. Labe**, and G. Magnusdottir (2021), Are 100 ensemble members enough to capture the remote atmospheric response to +2°C Arctic sea-ice loss? *Journal of Climate*, DOI:10.1175/JCLI-D-20-0613.1

ZACHARY M. LABE

Department of Earth System Science
University of California, Irvine

CONTACT: zlabe@uci.edu

@ZLabe

