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Title: Some hindcast simulations of the MJO using a superparameterized version of the global WRF model

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Abstract:

The challenge of simulating the MJO is addressed using a novel superparameterized version of the global WRF model. The approach involves performing a series of hindcasts of an ensemble of 15 large-amplitude events that are aligned in phase. Results show how model performance depends strongly on the treatment of surface latent heat fluxes, as well as the choice of global model resolution. There is also evidence for a need to include the effects of convective momentum transport.

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