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Title: Subseasonal Forecast Skill in the NMME

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Abstract:

The skill of the Madden-Julian Oscillation (MJO) will be investigated using the North American Multi-Model Ensemble (NMME) retrospective forecasts to assess the benefit of a multi-model to MJO forecast skill. The skill of forecasting MJO from each of the models participating in the NMME project that have provided daily output of outgoing longwave radiation (OLR) and zonal winds at 200 hPa (U200) and 850 hPa (U850) with sub-monthly initializations will be evaluated individually and as an equal-weights multi-model ensemble. This skill will also be compared with the skill of an empirical linear inverse model (LIM) of 5-day running mean anomalies of OLR, U200/850, and SST (run in near-realtime at <http://www.esrl.noaa.gov/psd/forecasts/clim/>) as a baseline. The LIM will also be included as an additional model with the NMME models to demonstrate the potential skill improvement from adding an additional skillful model. The complimentary skill contributed by each model will also be evaluated.

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