An assessment of CFSv2 performance in seasonal hindcast

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Abstract

In this study, the performance of CFSv2 in seasonal hindcast for US surface air temperature and precipitation is assessed. The assessment includes the examination of the hindcast skill in terms of categorical deterministic and probabilistic measures, an attribution analysis of the skill sources, in particular the impact of time evolving CO2 in the model to the trend forecast, and the diagnostics of the dominant modes of variability and their biases. In addition, a comparison with CFSv1 and CPC operational forecast is also conducted.