

South Asian monsoon variability in CFSv2 on intraseasonal and seasonal time scales

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The variability of the South Asian monsoon in the retrospective forecasts of CFSv2 on intraseasonal and seasonal time scales is assessed. The performance of the model in simulating the dominant intraseasonal oscillations in rainfall and horizontal winds is investigated. The model's ability to reproduce observed seasonal mean monsoon in terms of seasonally persisting atmospheric modes related to El Niño-Southern Oscillation and Indian Ocean Dipole is also examined. The predictability of the model is evaluated by estimating the growth rate of forecast errors and predictability errors in rainfall and horizontal winds. The simulation and predictability of CFSv2 are compared with the earlier results obtained with CFSv1.