

Probabilistic monsoon forecasting using ensemble reforecasts

Tom Hamill

*NOAA Earth System Research Lab
Boulder, Colorado*

Previous results have shown that reforecasts, a long training data set from the same forecast model that is used operationally, are useful for the statistical adjustment of real-time forecasts. The long training data set is especially useful for the calibration of heavy precipitation forecasts, which are relatively rare and require a long time series to find a moderate number of similar past events. In this talk we will consider whether calibrated probabilistic monsoon forecasts in the southwest US based on reforecasts have any skill, evaluated using stringent verification measures. Time permitting, we will compare the results from a reforecast data set to real-time raw probabilistic forecasts from the ECMWF ensemble prediction system.