An assessment of ENSO predictability barrier with seasonal feedback models

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ENSO forecasts, therefore, have also an interest for the European sector. In the present work, a simple stochastic model (OrtizBeviá et al. 2012) is set to predicting ENSO, represented by the El Niño3.4 Index, for the period 1980-2009. We assess the sensitivity of the prediction skill to the inclusion of several factors. First we consider the inclusion of seasonality in the predictive scheme. Additionally, the prediction skill when subsurface information is included among the predictors is compared with those that uses only surface predictors. Moreover, we consider differences in the skill obtained by introducing asymmetries in the functional dependence of the surface and subsurface predictors.

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