



A parameterization of model error and its use in ocean data assimilation

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Drawing on ideas of subgrid modeling in the Large Eddy Simulation framework, we consider a representation of model error that results from truncation analysis. An important aspect of this parameterization of model error is its allowance for backscatter. We examine the use of such a representation of model error in better estimating ensemble error covariance and maintaining ensemble spread in an ocean data assimilation setting.