

Abstract

Title: Data Assimilation for Uncertainty in Near-Term Climate Prediction

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An ensemble data assimilation technique for uncertainties in reproduction and prediction of long-term climate changes by a dynamical model has been developed. The technique is effective in making optimal initial conditions for the near-future climate prediction and in estimating amounts of uncertainty involved in the reproduced and predicted climate states. Here, we focus mainly on the accurate reproduction of the oceanic condition. The technique developed here will be applied to the final experiment of the near-future climate prediction. The quality of oceanographic observations used in the data assimilation is also taken into consideration.

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