On the predictive skills of North Atlantic eddy permitting ocean model.

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In this talk we present results from model simulations and data assimilation study of the North Atlantic. The ocean model is coupled sea-ice NEMO model with ¼ degree horizontal resolution and 41 vertical levels. It is initialized from a 30 years run with climatological forcing. Singular Evulative Extended Kalman Filter (SEEK) method is used to assimilate satellite altimetry, SST maps and ARGO (temperature and salinity) data. The model is run with NCEP atmospheric forcing for the period of time from 1981 to 2000. The model simulations are compared with observations for the same period of time and predictive skills of the model and data assimilation scheme are assessed.