



The Atlantic El-Nino simulated by Speedy-MICOM: Mechanism, Teleconnections and Predictability.

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Using the coupled Speedy-MICOM model we have investigated the Atlantic El-Nino. This model simulates well the basic characteristics of Tropical Atlantic climate and variability such as the east-west tilt of the equatorial thermocline and the gradient and cold tongue modes. This allows a further investigation of the Atlantic El-Nino. The analysis confirms the Bjerknes Hypothesis, resulting in potential predictability of the Atlantic El-Nino. Results of an idealized and a realistic hindcast predictability experiment will be presented. Also the impact of the Atlantic El-Nino on the European atmospheric circulation will be discussed.