

Climatic impacts of long-term North Atlantic SST Variability: Observational evidence and model support

Yochanan Kushnir and Mingfang Ting
Lamont-Doherty Earth Observatory, Columbia University
61 Route 9W, Palisades, NY 10964, U.S.A.

This talk will review the role of North Atlantic decadal and longer SST variability in the global climate. Evidence from both modern, instrumental observations and paleoclimate data will be used to show the extent to which changes in North Atlantic SSTs affect climate around the Basin and in remote locations. Also reviewed will be model results that support the evidence derived from the short instrumental record and from the sparse and rather heterogeneous paleoclimate sources. Atmospheric mechanisms that explain the observed teleconnections to the North Atlantic will be discussed.