Statistics Seminar Series

A Statistical Assessment of Climate Change in the Ocean

Michael Lavine

Institute of Statistics and Decision Sciences

Duke University

Thursday, May 1, 2003, 4:00-5:00pm
Mathematics and Computer Science (MCS) Building, Room 149
111 Cummington Street, Boston

Tea and Cookies at 3:30pm in MCS 153

Abstract: The National Oceanic Data Center (NODC) contains historical records from approximately 144,000 hydrographic stations in the North Atlantic. This data has been used by oceanographers to construct maps of point estimates of pressure, temperature, salinity and oxygen in the North Atlantic and also to assess changes in these properties over time. This talk shows how spatio-temporal statistical models are being used to improve the estimation of oceanic climate change. We describe two types of models: Markov random fields and process convolutions and applications of each.

For directions and maps, please see *http://math.bu.edu/research/statistics/statseminar.html.*