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*Detecting Change Points in Climate Records.*

Climate change is the result of complex interactions between a wide array of climatic variables. Over a long period of time, climatic patterns can exhibit abrupt shifts. These abrupt shifts occurring over relatively short periods of time are known as change points. During these intervals, different climatic variables may undergo dramatic shifts posing serious consequences for many biological and physical systems. In this talk, we discuss a Bayesian algorithm for detecting the exact timing of change points in time series data. (Received September 26, 2017)