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Title: Latent Storm Factors and their Indicators

Abstract:

The concept of exploratory factor analysis (EFA) was used in this study to determine the latent storm factors of hurricanes in the Atlantic Basin (1992-2014), that explain variance and measure the correlation that exist between their respective storm indicators. In this study, the latent variables are the meteorological measures such as the month, the location of a storm, wind speed and pressure. There were two levels of the EFA process where the factors and their factor indicators were measured. In this talk, we present the findings of this study and show the valuable model that arose from the process.