Apposite Statistical Model to view the occurrence of Tropical Cyclones and Severe Tropical cyclones

ABSTRACT: Purpose of this paper is to categorize suitable statistical model to view the occurrence of Tropical Cyclones (TC) and Severe Tropical Cyclones (STC). The goodness of fit of Binomial & Poisson distribution is checked with the data series pertaining to the occurrence and non - occurrence of TC and STC over different segments of Bay coast. The results show that the Poisson distribution could be a better predictive model for the occurrence of tropical cyclones whereas both Binomial & Poisson distributions are desirable models for forecasting the occurrence of severe tropical cyclones.