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## Investigation of rainfall trend in Jorhat town, Assam

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Rainfall is the prime source of all water. Jorhat experiences the predominant influence of the south-west tropical monsoon which reigns from June to October with occasional winter showers. Pre-monsoon rain also occurs during April and May with occasional thunder and hailstorm and sometimes it rains from cyclones as well. Low-pressure areas forming over the Bay of Bengal also causes rainfall over this region. The analysis of rainfall is important as it is the sole source of water for running a Municipality at Jorhat with more than one billion population. Most of the consumable water is collected from surface source of river Bhogdoi. The uncertainty or variability and concentration of rainfall to few months increase the possibility of water scarcity in dry periods. The nature of the variability and extent to concentration is analyzed to understand the causes of water scarcity. Hence, the change in rainfall has been focus of study of a number of scientists as it influences man and environment both. The present study is an attempt to highlight whether rainfall in Jorhat town has been increasing or decreasing over the years (1958-2007) through an analysis of rainfall trends in the area.

### Biography

Mayurakshi Bhuyan has completed her PhD at the age of 30 years from North-Eastern Hill University, Shillong. She has published 8 papers in reputed journals or books and was awarded Best Paper in XXXII INCA (Indian National Cartographic Association) International Congress, Dehradun, 2012 and Commendation Certificate, 34<sup>th</sup> Indian Geography Congress of National Association of Geographers, India (NAGI), Patna University, 2012.

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