



Predicting future changes in climate of micro watershed from statistical relationships among climatic variables

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Abstract: A stepwise regression method is used for selecting variables which are indicators of regional future climate change. Based on ten years of meteorological data from two micro watershed of Manipur, a statistical relationship among moving averaged temperature, precipitation and humidity were separately estimated and analysed. Correlations between temperature with precipitation and humidity for all the months were estimated and the correlations indicate a statistical relationship between climate variability and temperature. By using these regressions, the future climate situation was predicted under a global warming scenario of an increase of 1.2°C.

Key words: stepwise regression, climate change