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*Spatio-temporal Modelling of Temperature Fields in the Pacific Northwest*

The modelling of temperature fields, which are crucial to understand a region's climate, can be challenging due to the topography of the study region. For instance, in the Pacific Northwest, extensive forests, mountains and proximity to the Pacific Ocean may create sudden changes in climate, contributing to the complexity of the modelling in the area. In this work, we develop a hierarchical spatio-temporal model that handles nonstationarity for characterizing daily temperature fields in that region and describe a Bayesian method that can be used for spatial prediction.