

# Introduction to RandomFields

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**Abstract:** The R package RandomFields allows the simulation of max-stable random fields and the analysis of non-extremal spatial data. This presentation concentrates on the latter and introduces into the fitting and prediction of univariate data based on cartesian coordinates or earth coordinates. We continue showing how a part of the sea surface temperature data can be fitted to a multivariate model. Finally we fit a space-time model to the data. A particular focus is on modelling the mean part.