

# R packages

## Main packages:

<b>sp</b>	A package that provides classes and methods for spatial data. The classes document where the spatial location information resides, for 2D or 3D data. Utility functions are provided, e.g. for plotting data as maps, spatial selection, as well as methods for retrieving coordinates, for subsetting, print, summary, etc.
<b>sf</b>	A package that provides access to geometry simple features, a standardized way to encode spatial vector data.
<b>geoR</b>	Geostatistical analysis including traditional, likelihood-based and Bayesian methods
<b>gstat</b>	Variogram modelling; simple, ordinary and universal kriging, simulation; variogram and variogram map plotting
<b>spatstat</b>	A package for analysing spatial data, mainly Spatial Point Patterns, including marked points and spatial covariates, in any two-dimensional spatial region.
<b>stpp</b>	A package for analysing, simulating and displaying space-time point patterns.
<b>spacetime</b>	Classes and methods for the analysis of spatio-temporal data.
<b>mapview</b>	Interactive viewing of spatial objects in R

## Supplementary packages:

<b>RColorBrewer</b>	The package provides palettes for drawing nice maps shaded according to a variable.
<b>lattice</b>	A framework for data visualization
<b>maptools</b>	Set of tools for manipulating and reading geographic data
<b>maps</b>	The package to display geographical maps.
<b>RandomFields</b>	Simulation of Gaussian and extreme value random fields; conditional simulation; kriging
<b>lubridate</b>	Tools to manipulate with dates.