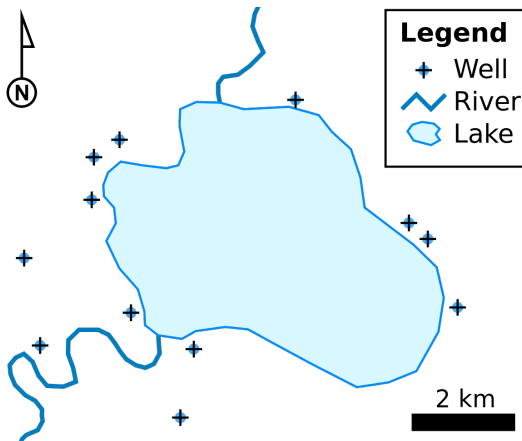


Handling Spatial Data in R

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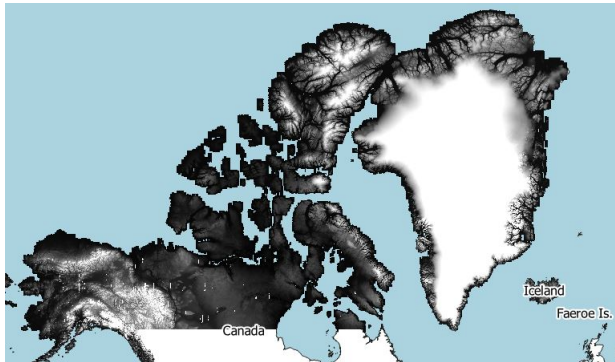
Spatial data

- **Vector data:** set of geographical points within a CRS representing stand-alone objects or complex features in forms of lines and polygons.



Spatial data

- ▶ **Raster data:** matrix whose entries, called pixels, contain the values of a spatially referenced variable.



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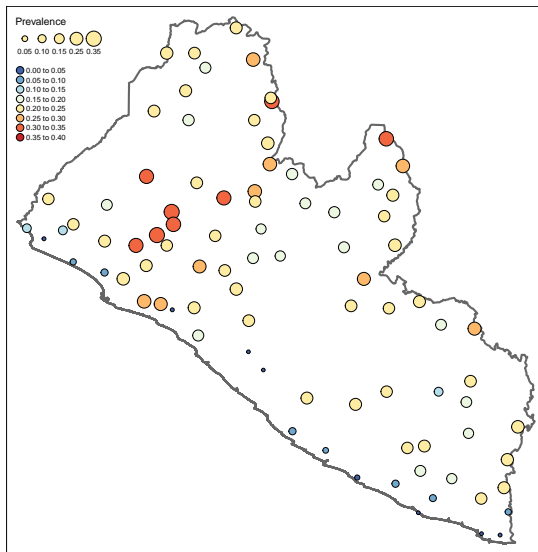
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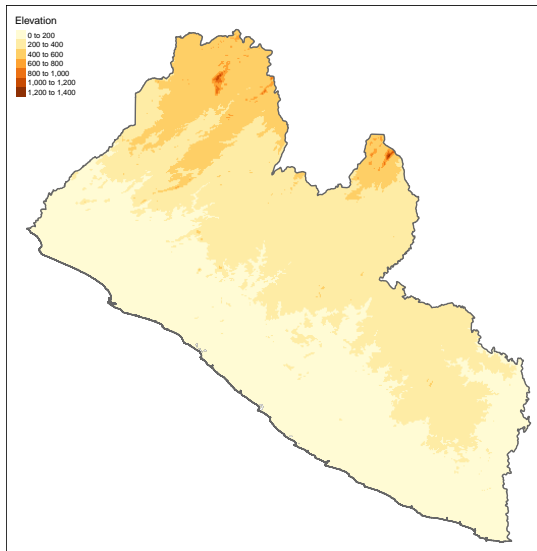
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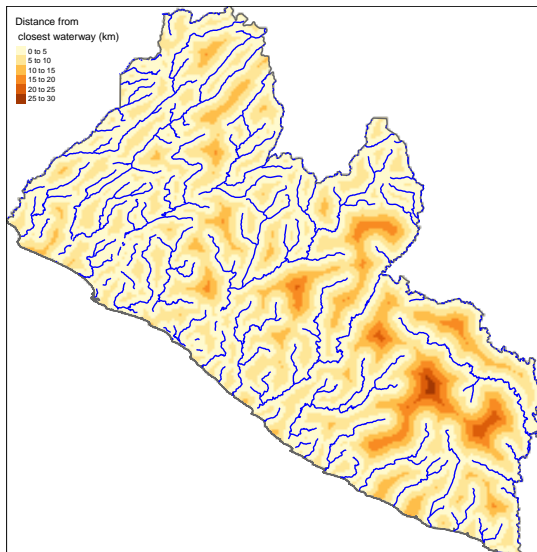
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- ▶ `tmap`: generates thematic, both static and interactive, maps using vector and raster data.
- ▶ `splancs`: provides function for display and analysis of point pattern data. NOTE: This package provides computationally more efficient algorithms for generating grids (see function `gridpts`).

Point maps of geostatistical data





Creating raster files using shape files



Manipulating rasters using buffers

