

Documentation

Ecological connectivity for forests in Norrbotten County (Sweden)

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This dataset was developed by the author in collaboration with the County Administrative Board in Norrbottens county, Sweden.

The dataset consists of a GeoTIFF (raster) file indicating the structural ecological connectivity between HCV forests in Norrbotten county (Sweden).

The raster layer was created using the simulation software Omniscape (<https://docs.circuitscape.org/Omniscape.jl/latest/>) with substantial pre- and post-processing.

Interpretation

Raster values 1-10 indicate the relative contribution to structural ecological connectivity for each 10 m cell across Norrbotten County (Sweden). The higher value, the stronger contribution to connectivity. The connectivity indicates the movement of a fictitious species that has “natural” forest with limited disturbance as habitat and that moves based on how the immediate surroundings resemble their habitat (“random walker”). It can be used as a general measure for connectivity in the landscape but it should be noted that there are notable differences in how well structural connectivity resembles the functional connectivity for specific species and groups of species.

This dataset is unvalidated and should not be used for decision making without consulting the author.

More information

More information is available in the project report and the scientific articles. Python scripts for producing the dataset are available at https://github.com/oskeng/konnektivitet_NB.

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