

Ecography

E7149

Landguth, E. L., Hand, B. K., Glassy, J., Cushman, S. A. and Sawaya, M. 2011. UNICOR: a species connectivity and corridor network simulator. – *Ecography* 34: xxx–xxx.

Supplementary material

Appendix 1

UNICOR input variables and produced output.

| Input | Description |
|-------------------------------|---|
| Resistance Grid | The filename for the resistance surface (ASCII format). |
| Point Locations | The filename for the individuals with (x,y) locations. |
| Use ED Threshold | Option for using Euclidean distance thresholding. |
| ED Threshold | If Use ED threshold is True, then the Euclidean distance in map units to apply to the (x,y) point locations |
| Path Length / Edge Threshold | The resistance distance threshold in terms of edge distance to apply to the path lengths. |
| Number of Processors | For parallel computing, the number of processors that are used in a simulation. |
| Kernel Density Estimator | The probability distribution used to calculate the kernel density buffer. |
| Kernel Buffer Size | The kernel buffer window used to calculate the buffered maps. |
| Number of Levels | The number of categories used to display the kernel density buffer map. |
| Output | Description |
| Path Density ASCII File | The surface of path densities of all pairwise connections (ASCII format). |
| Path ASCII File | All points for each path in x-y coordinates (ASCII format). |
| Path Length Matrix ASCII File | The resistance distance matrix of all the source-destination connection lengths (ASCII format). |
| Buffer ASCII File | The surface of kernel buffered paths (ASCII format). |
| Graph Metrics File | The path's graph theory metrics. |