##################################################################################

#SPATIAL POWER ANALYSIS FOR DETECTING OCCUPANCY TRENDS IN R (SPOTR)

##################################################################################

Darren Southwell, University of Melbourne

Email: [darren.southwell@unimelb.edu.au](mailto:darren.southwell@unimelb.edu.au)

June 2018

This package calculates the statistical power to detect simulated occupancy trends for multiple species in spatially explicit landscapes.

Deterministic or stochastic disturbances can be modelled over space and time.

To begin, download and open the script *Running\_SPOTR.R*, then follow the instructions to install and run the package.

The package contains example data for 10 species. It can be run by copying and pasting the code in the *Running\_SPOTR.R* file.

New raster layers can then be loaded into the program to replace the 10 example species to assess power for other species, landscapes and/or monitoring scenarios.