

Ecological surprises in metapopulations

Frequency of strata (% of simulations)

100%
75%
50%
25%
0%

Complex

Star

Dendritic

Linear

Low

High

Local, uneven

Local, even

Uniform

Critical risk 3%

Spatial contraction 6%

Hidden collapses 23%

Slow recovery 26%

Resilient 42%

Network structure

Dispersal

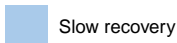
Disturbance

Outcome

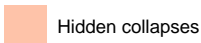
cluster_surprises



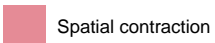
Resilient



Slow recovery



Hidden collapses



Spatial contraction



Critical risk