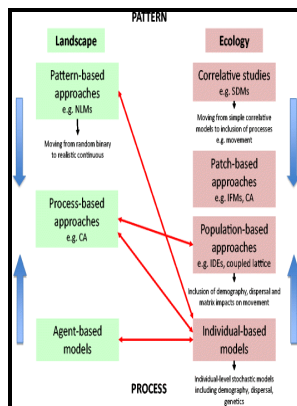


Development of a spatially explicit forest succession model.

University of East Anglia - Innovative scaling concepts and tools



Description: -

-Development of a spatially explicit forest succession model.

-Development of a spatially explicit forest succession model.

Notes: Thesis (Ph.D.), University of East Anglia, School of Environmental Sciences, 1994.

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Tags: #LANDIS #4.0 #users #guide. #LANDIS: #a #spatially #explicit #model #of #forest #landscape #disturbance, #management, #and #succession

Spatially explicit modelling of floodplain forest succession: interactions among flood inundation, forest successional processes, and other disturbances in the Upper Mississippi River floodplain, USA

In: 26th annual landscape ecology symposium. PARTICIPANTS: Eric Gustafson and Brian Sturtevant NRS , Rob Scheller Portland State University , Anatoly Shvidenko International Institute for Applied Systems Analysis, Laxenburg, Austria TARGET AUDIENCES: Other researchers, policy makers PROJECT MODIFICATIONS: None Impacts Using LANDIS-II as a scaling device generates a big opportunity to scale a vast body of site-level research to larger, policy-relevant scales.

LANDIS 4.0 users guide. LANDIS: a spatially explicit model of forest landscape disturbance, management, and succession

LANDIS-II uses species and site-level ecological process knowledge to make long-term projections of forest composition and spatial pattern dynamics at landscape scale. Studies using this approach were conducted in the Border Lakes region of MN and Ontario, in Wisconsin, Labrador and Siberia.

LANDIS

LANDIS-II is becoming widely used by researchers and forest managers around the world. Life-stage differences in spatial genetic structure in an irruptive forest insect: implications for dispersal and spatial synchrony. KEY WORDS: Simulation model, landscape ecology, software documentation, decision support, forest management, manual.

Spatially explicit modelling of floodplain forest succession: interactions among flood inundation, forest successional processes, and other disturbances in the Upper Mississippi River floodplain, USA

Molecular markers allowed us to explore utility of these genetic tools to understand population structure of defoliators that helps understand and predict large-scale outbreak patterns in terms of duration and extent of damages.

Exploring component

LANDIS-II is highly customizable with dozens of libraries 'extensions' to choose from.

Exploring component

In this paper, we explore the design of a spatially explicit forest landscape model in a component-based modeling framework, based on our work on object-oriented forest landscape modeling. The world's landscapes are changing rapidly due to a host of anthropogenic drivers. Crossing scales and disciplines to achieve forest sustainability.

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Together, these features of LANDIS-II provide the ability to scale site-level ecological knowledge to broader scales millions of acres and temporal scales centuries to answer highly relevant management and policy questions. Simulation modeling forest landscape disturbances. New developments in component-based modeling approaches provide a viable solution.

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