Immersion Lecture: Community Ecology – Size, Space, Distributions

Time of Event:
Monday, August 31, 2015 - 11:15 to 12:00
Video:

In this second of three lectures on community ecology, Dr. Dan Simberloff presents an overview of theories of community composition and differences in community composition over time and space. He draws on historical and contemporary empirical examples of studies that have contributed to ideas about how closely related species develop within a community over time, including theories of minimum and equal size ratios, and character displacement and release. He also discusses displacement in morphospace rather than time and presents extensive discussion and examples of community assembly rules related to spatial distributions of species, from checkerboard to allopatry patterns. He concludes with a discussion about the need to distinguish between the presence of species, the number of each species present, and the distribution of species in a community.

Reading List

Hellmann, J.J. 2013. Species interactions. In: S. Levin (ed.), Encyclopedia of Biodiversity, pp. 715–725. Oxford: Elsevier.

Presentation Slides

Click here to download the presentation slides. [1]

 Daniel Simberloff [2] is the Nancy Gore Hunger Professor of Environmental Studies at the University of Tennessee. He received his AB (1964) and PhD (1968) from Harvard University and was a faculty member at Florida State University from 1968 through 1997, when he joined the Department of Ecology and Evolutionary Biology at the University of Tennessee. His publications number ca. 500 and center on ecology, biogeography, evolution, and conservation biology; much of his research focuses on causes and consequences of biological invasions. His research projects are on insects, plants, fungi, birds, and mammals. At the University of Tennessee he directs the Institute for Biological Invasions. In 2006 he was named Eminent Ecologist by the Ecological Society of America, in 2012 won the Margalef Prize for research in ecology, and in 2015

won the Wallace Prize of the International Biogeographical Society. He is a member of the U.S. National Academy of Sciences and the American Academy of Arts and Sciences.

Event type:
Immersion Speaker
Event Attendance:
Private Working Group

Links
[1] https://www.sesync.org/sites/default/files/education/ecology-5.pdf
[2] http://eeb.bio.utk.edu/peopletwo/daniel-simberloff/