

The ecological and geographic dynamics of extinction: Niche modeling and ecological marginalization

Mark V. Lomolino¹

The extinction problem has little to do with the death rattle of its final actor. The curtain in the last act is but a punctuation mark—it is not interesting in itself. What biologists want to know about is the process of decline in range and numbers (1).

In the above passage from his book chapter, Michael Soule offers a compelling argument for conservation biologists to focus on the process of decline of species well before they become endangered. By the time species are critically endangered, our options are sorely limited and, although species may persist as small populations for some time,

Author affiliations: ¹State University of New York (SUNY) College of Environmental Science and Forestry, Syracuse, NY 13210

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See companion article, "Ecological marginalization is widespread and increases extinction risk in mammals," 10.1073/pnas.2220467120.

¹email: mlomol@esf.edu

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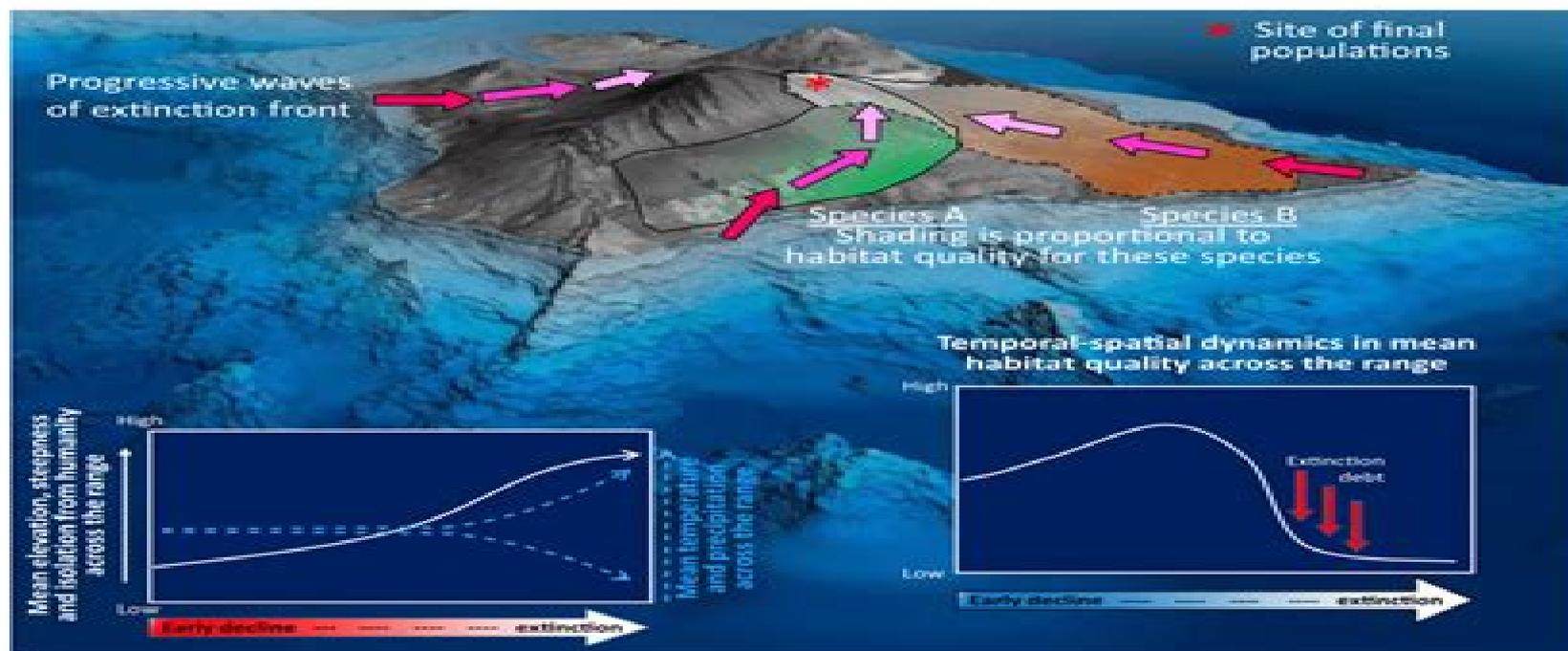


Fig. 1. Anthropogenic forces that cause wholesale range collapse and extinction of species are, by definition, so powerful that they render preexisting patterns in population densities irrelevant. Range contraction is thus determined by the geographic dynamics of those extinction forces, which tend to spread like a contagion across landscapes and seascapes. Final populations are those least and last impacted by anthropogenic forces (habitat loss and fragmentation, the spread of disease and problematic invasive species, etc.), persisting in the most remote reaches of their historic range—those at the highest elevations, in the steepest regions, and in areas of climatic extremes. One salient result is ecological marginalization, with remnant populations persisting only in suboptimal habitats where depressed survival, reproduction, and dispersal ultimately create an extinction debt that eventually leads to the final, albeit often long-delayed demise of the species.

Dynamics Of Extinction

Karin Nielsen-Saines



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