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Void? -- 13. Sensitivity of High Arctic Caribou Population Dynamics to Changes in the Frequency of Extreme Weather Events -- 14. Harvest Models for Changing Environments -- 15. From Connect-the-Dots to Dynamic Networks: Maintaining and Enhancing Connectivity as a Strategy to Address Climate Change Impacts on Wildlife -- 16. Restoring Predators as a Hedge against Climate Change -- 17. Assisted Colonization of Wildlife Species at Risk from Climate Change -- 18. The Integration of Forest Science and Climate Change Policy to Safeguard Biodiversity in a Changing Climate -- 19. What to Expect and How to Plan for Wildlife Conservation in the Face of Climate Change -- Index

Sommario/riassunto

Human-induced climate change is emerging as one of the gravest threats to biodiversity in history, and while a vast amount of literature on the ecological impact of climate change exists, very little has been dedicated to the management of wildlife populations and communities in the wake of unprecedented habitat changes. Wildlife Conservation in a Changing Climate is an essential resource, bringing together leaders in the fields of climate change ecology, wildlife population dynamics, and environmental policy to examine the impacts of climate change on populations of terrestrial vertebrates. Chapters assess the details of climate change ecology, including demographic implications for individual populations, evolutionary responses, impacts on movement patterns, alterations of species interactions, and predicting impacts across regions. The contributors also present a number of strategies by which conservationists and wildlife managers can counter or mitigate the impacts of climate change as well as increase the resilience of wildlife populations to such changes. A seminal contribution to the fields of ecology and conservation biology, Wildlife Conservation in a Changing Climate will serve as the spark that ignites a new direction of discussions about and action on the ecology and conservation of wildlife in a changing climate.