

Abstract:

Most of the global boreal forest has retained a largely natural ecosystem distribution and condition. In the recent geologic past the boreal region experienced Earth's largest range of natural climate variation, which changed ecological communities and forced the migration of most elements of boreal ecosystems across long distances. The successes and failures of those past adjustments contain important lessons for natural area managers and conservation biologists of today. Recent and largely humancaused warming of the climate system is strong and now pervasive across the boreal region and has spread or is spreading to other parts of the Earth. Boreal environments are now being altered to the degree that the early stages of species migration are necessary or underway. Yet some of the core legal and policy concepts that currently underlie natural resource and natural area management such as sustained yield, sustainability, and native vs. exotic species, appear to be inadequate or antagonistic to potentially responsive management practices. Natural area managers can assist the challenge to broaden or re-focus the mandate for resource management in a time of change by collecting their stories of adaptive practices that lead to resilience in species and ecological communities.



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