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Decolonizing Restoration: Indigenous-Native Ecology, Justice, and the Future of Conservation Book Review

Introduction

Ecosystem restoration has risen as a critical call to action in response to biodiversity loss, climate change, and land degradation. However, many of these restoration practices remain rooted within colonial conservation practices that exclude native peoples from the very land that they have tended to and stewarded over the span of generations. The prioritization of ecological outcomes from these approaches tends to ignore social justice and cultural relation to land & historically violent displacement from land and cultural community. Recent scholars have challenged this paradigm by showcasing and advocating the importance of traditional indigenous ecological knowledge, justice centered conservation and restoration, and land sovereignty. Drawing from works such as *Decolonizing Conservation, Braiding Sweetgrass, and As Long as the Grass* Grows– this paper will analyze how the decolonization of conservation work can help transform restoration work to be grounded in more inclusive, ethical, and culturally/ecologically sound practices.

Colonial Conservation and Its Limits

Traditional conservation models that are often referred to as “fortress conservation” have historically often displaced and removed indigenous folks from protected areas for the sake– or rather in the name of– biodiversity preservation. *Decolonizing Conservation* critiques and challenges this model as a reproduction of colonial power structures by treating nature as separate from humans and prioritizing external governance over local land stewardship. These approaches more often than not also fail ecological efforts as well– disregarding the long-time existing land management practices that have sustained these ecosystems for centuries. For instance, across Latin America many protected areas have frequently displaced Indigenous communities– undermining the importance of cultural survival alongside ecological resilience. This reveals a key systemic flaw: conservation practices that exclude people will oftentimes also debilitate the very systems it seeks to protect. Restoration must then move beyond colonial and technocratic solutions and address the socio-political dimensions of land management.

Indigenous Ecology as Restoration Science

Traditional Ecological Knowledge TEK- (Indigenous Knowledge) offers a framework grounded in reciprocity, relationship, and long term stewardship. In *Braiding Sweetgrass*, Kimmer refers to the ways in which indigenous knowledge systems incorporate science, ethics, and spirituality– recognizing that humans are woven in as part of ecosystems and not separate from them.

Methodologically, Native based ecology differs from Western science in many key ways:

- It is place-based and adaptive over generations
- It incorporates cultural practices such as harvesting, burning, and ceremony
- It emphasizes reciprocity rather than extraction

A renowned practice is the use of Indigenous fire stewardship in North America, where controlled cultural burns reduce the risk of wildfires and enhance biodiversity. These practices are increasingly recognized as essential restoration tools, especially in the face of climate change.

Justice and Sovereignty in Restoration

Restoration is just as much a political and ethical process as it is an ecological process. *As Long as Grass Grows* shows the way environmental justice for Natives is inseparable and impeccably tied to land rights and sovereignty. Without recognizing and advocating the historically violent dispossession– restoration efforts risk perpetuating inequities.

Environmentalism aligned with justice– provides useful frameworks to define environmental justice as:

- Distribution (who benefits and who bears costs)
- Recognition (respect for cultures and identities)
- Participation (inclusion centering historically marginalized voices in decision-making)

Making this applicable to restoration means that Native communities are not only consulted but centered in leading projects on their very lands. The shift from participation to leadership holds a fundamental truth and transformation in restoration governance.

Case Studies and Applications

A compelling example of indigenous led restoration can be seen through the land stewardship initiatives in Mexico– having indigenous communities lead forest management through communal governance systems (ejidos). These ways have demonstrated higher biodiversity

conservation rates when comparing them to protected areas managed by the state. Similarly, we see Aboriginal ranger programs in Australia integrating cultural burn practices with modern ecological monitoring– showing improved health of ecosystems.

These case studies demonstrate many key opportunities for restoration:

- Co-management and Indigenous governance structures
- Integration of TEK with Western science
- Long-term monitoring rooted in community knowledge

However, challenges are still very much present including: institutional barriers, lack of funds for Indigenous-led projects, and ongoing land tenure disputes.

Connection to Course Themes

This synthesis directly ties in course themes of resilience, systems thinking, and socio-ecological restoration. Native ecology weaves in resilience thinking by emphasizing adaptability, feedback loops, and stewardship over long periods of time. It also reflects political ecology frameworks discussed in this course: examining power structures, inequity, and history's influences on environmental outcomes.

In applied restoration contexts like watershed restoration or urban infrastructure– these concepts can help inform more inclusive stakeholder engagement and participation with culturally responsive design. For instance, incorporating Native perspectives into planning processes can help support both community trust and ecological outcomes.

Conclusion

Decolonizing conservation requires more than simply adding indigenous knowledge to already editing frameworks– it demands a shift fundamentally in the ways that restoration is practiced and conceived. In centering indigenous knowledge, sovereignty, and social justice-0 restoration becomes more effective and responsive to environmental change, As climate challenges become increasingly more pressurized, these approaches provide critical pathways toward resilient and equitable systems to support ecological health, communities, and conservation.

References

Büscher, B., & Fletcher, R. (2020). *Decolonizing conservation: Global capitalism and the future of protected areas*. Yale University Press.

Kimmerer, R. W. (2013). *Braiding sweetgrass: Indigenous wisdom, scientific knowledge, and the teachings of plants*. Milkweed Editions.

Gilio-Whitaker, D. (2019). *As long as grass grows: The Indigenous fight for environmental justice, from colonization to Standing Rock*. Beacon Press.

Schlosberg, D. (2007). *Defining environmental justice: Theories, movements, and nature*. Oxford University Press.