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**Title:** *Integrating Traditional Knowledge with Western Science to Address Climate Change: Vulnerabilities, Adaptation, and Resilience*

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Climate change is a global phenomenon that will affect everyone. Indigenous communities are particularly vulnerable and the adverse effects of climate change will fall disproportionately on indigenous peoples even though their contributions to the problem are usually negligible. In particular, traditional practices and relationships with the natural world, which form the spiritual, cultural, and economic foundations of many indigenous communities, are being threatened by climate change.

Through an examination of traditional knowledge (TK) and the challenges associated with integrating TK into western science, this paper asks: how do indigenous communities address the impacts of climate change that negatively affect their livelihoods and jeopardize their traditional ways of knowing the natural world? Can Western science mitigate the problems when it often denies the ecological realism of community and the social-cultural dimensions of nature that are vital to belief systems and traditional knowledge of indigenous peoples in North America? Or, does the solution lay with generations of knowledge possessed by indigenous peoples who have continuously adapted to their environments over the centuries? While no answers to these questions readily exist, the solution to a complex problem may simply lay in finding commonalities with each viewpoint rather than trying to bridge gaps between incompatible worldviews.