Effectiveness of Sacred Groves for Biodiversity Conservation

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Abstract

Sacred groves have survived without human intervention for a very long time, and are thus of anthropological, cultural, economic and ecological value. In highly degraded habitats and farmlands, the groves are the only intact trees. The paper addresses the effectiveness of traditional strategies as an instrument for the conservation of species and habitats and calls for a comprehensive assessment of indigenous conservation systems and the promotion of those systems that have the potential to increase efforts to conserve biodiversity in the world.

Introduction

Historically, the primary solution to conserving biodiversity globally has been by creating protected areas, but only 12% of the terrestrial areas of the world are under any form of protection [1]. There are few areas left which can be placed under such conservation, sometimes excluding people. There is a higher chance of success with environmental methods that are community-based [2]. Biocultural and indigenous conservation practices are gradually being recognised and valued; the ecological dimensions and cultural importance of the environment are regarded at these sites, like sacred groves in the World [3,4]. Sacred groves are forested ecosystems, which are covered by moral principles founded on social norms. Many sacred groves, for instance, have neighbourhood laws against hunting or taking another land from the groves. Globally, sacred landscapes occur and are a type of bio cultural security [5]. Asia and Africa have the world’s largest member of sacred groves, and these trees have greater abundance and diversity of species than nearby non-sacred forests or adjacent ecosystems [6,7]. Because of industrialization and agricultural growth, the world has experienced deforestation by anthropogenic pressures [7]. The same stresses and behavioural developments endanger sacred groves. Some populations are prone to the exploitation of land, such as valuable timber plants, because their livelihoods rely on forest resources. The urbanisation and industrialization phase of large areas for construction and mining operations has a significant and detrimental effect on community environmental efforts [8].

Factors such as tourism, income and job development will play an important role in the future protection of sacred groves and even planning of integrated approaches to biodiversity at the ecosystem level conservation [17]. The systems of faith, taboos and penalties on which sacred groves were founded, however, are crumbling. It is uncertain that these belief systems can be maintained, considering the rapidly evolving cultures. Erosion of Taboos, deforestation and community laws have contributed to the degradation of the groves [9]. There is evidence around the world that traditions related to the sacred groves that were strictly practised have been eroded over the past few decades, and the groves no longer possess the same prestige and privilege as they did before (Kest, 2013) [10]. In terms of forests and especially sacred groves, much of the world is still not fully catalogued and mapped. Besides, the local ethnic groups and their cultural perceptions of these forests and holy groves remain undocumented. More research activities include the involvement of citizens, training to encourage indigenous local awareness and restoration of the biodiversity through the discovery, recording, and preservation of sacred groves in the world [11]. By conventional approaches of community-based restoration that do not require government intervention, protected natural sites, including sacred groves, are retained. Occasionally, within a protected area, such as a national park, there is a sacred grove. In this situation, the park manager should advise residents about the sacred site and follow the recommendations established by the International Union for the Conservation of Nature [12]. For several reasons, the protection of sacred groves is imperative: for the preservation of local and regional biodiversity; for the preservation of local communities’ socio-cultural integrity; and for the myriad environmental services rendered by these groves, such as erosion control [13], maintenance of good water quality [14], as well as serving as seed banks [15] and carbon sinks [16]. As community-preserved areas, sacred groves are important and have contributed to the restoration of biodiversity, thereby playing a key role in maintaining the environment. The ecology and related cultural values of the groves and activities of local communities will enable appreciation of the importance of conserving sacred groves and even planning of integrated approaches to biodiversity at the ecosystem level conservation [17].

The wide distribution and abundance of sacred groves in the world’s numerous habitats highlight the value of inventory and study continuity. In various areas of the world, there are still many undocumented sacred groves whose plant diversity needs to be registered to promote better conservation and restoration of wild gene pools [18]. To fully understand the role of these forests in the conservation of biodiversity, more research on ecology and the underlying socioeconomic processes of sacred groves scattered in remote corners of the world is needed [7]. For the indigenous people of the nation, sacred groves are an important part of life. Community organisations have played a pivotal role in preserving these forests over the decades [19]. It is important at this time to emphasise the protection of these forests and to help the ethnic communities that preserve them [20].

Conclusion

While sacred groves were originally developed to fulfill indigenous people’s religious and spiritual needs, they play an important role in conserving in-situ biodiversity. The systems of faith, taboos and penalties on which sacred groves were founded, however, are crumbling. It is uncertain that these belief systems can be maintained, considering the rapidly evolving cultures. If they are to continue playing important roles in in-situ biodiversity conservation, the deterioration of conventional institutions for the management of sacred groves must be tackled. Since members of the state forestry staff do not have the required skills and expertise to maintain sacred groves, indigenous people must remain in the hands of future management. Factors such as tourism, income and job development will play an important role in the future protection of sacred groves and their potential for the conservation of biodiversity. The promotion of indigenous cultural heritage, as well as evolving influences, would thus eventually contribute to the preservation of sacred groves and the conservation of biodiversity.

References


