

Protected Areas: Safeguarding Nature, Empowering Communities, and Securing Africa's Future

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Introduction

Protected areas are indispensable instruments in global conservation efforts, serving as vital sanctuaries for biodiversity and critical providers of essential ecosystem services worldwide. As human activities increasingly threaten natural habitats across the globe, the establishment and effective management of these areas have become paramount for sustaining life on Earth. This necessity is particularly urgent in Africa, a continent endowed with rich natural heritage but grappling with distinctive challenges and opportunities in conservation. Delving into the role of protected areas is not only crucial for environmental preservation but also fundamental for fostering sustainable development and empowering communities, with insights from Cameroon's experience offering a compelling illustration.

Global Importance of Protected Areas

Worldwide, protected areas cover approximately 16% of terrestrial and inland waters and over 8% of marine environments (UNEP-WCMC *et al.*, 2023). They serve as refuges for endangered species, maintain ecological balance, and safeguard vital services such as carbon sequestration, water purification, and soil conservation. Beyond environmental benefits, protected areas contribute significantly to local and national economies through ecotourism, job creation, and cultural preservation (Watson *et al.*, 2014). The United Nations' Sustainable Development Goals (SDGs) explicitly recognize protected areas as key to achieving targets related to poverty reduction, climate action, and biodiversity conservation (UN, 2015).

Africa's Protected Areas: Biodiversity Hotspots and Development Engines

Africa hosts some of the world's most renowned protected areas, including the Serengeti, Kruger, and the Congo Basin forests. These areas harbor exceptional biodiversity, including iconic megafauna such as elephants, lions, and gorillas, many of which are threatened by habitat loss and poaching (IUCN, 2022). Protected areas in Africa are not only biodiversity reservoirs but also crucial for millions of people who rely on natural resources for their livelihoods.

Recognizing their importance, African nations have committed to the Kunming-Montreal Global Biodiversity Framework, aiming to protect 30% of terrestrial and marine areas by 2030 (CBD, 2022). The first African Protected and Conserved Area Congress reinforced this commitment, highlighting the dual role of protected areas in conservation and economic development (APCA, 2023). Notably, keystone protected areas, though few in number, cover a significant portion of Africa's protected land and shelter the majority of threatened vertebrate species (Jones et al., 2023).

Challenges Facing African Protected Areas

Despite their critical role, many protected areas in Africa suffer from underfunding, inadequate management, and external pressures such as illegal logging, poaching, and agricultural encroachment (Lindsey et al., 2021). For instance, effective management of protected areas with lion populations requires over \$1 billion annually, a figure far exceeding current budgets (Bauer et al., 2018). Political instability and weak governance further exacerbate these challenges.

Cameroon exemplifies these difficulties. The country has designated about 21% of its land as protected, with plans to increase this to 30% by 2030 (Cameroon Ministry of Environment, 2024). However, poaching incidents, such as the mass killing of elephants in Bouba Njida National Park, highlight ongoing threats (WWF, 2020). Limited financial and human resources constrain effective enforcement and community engagement.

Community Empowerment: A Pathway to Sustainable Conservation

Increasingly, success in protected area management depends on involving local communities. In Cameroon, organizations like the Cameroon Gender and Environment Watch (CAMGEW) have pioneered community-based conservation by integrating gender equity and livelihood support. Their initiatives, such as training women in beekeeping and sustainable agriculture, have restored forests, reduced bushfires, and improved incomes (CAMGEW, 2023). These approaches demonstrate that conservation and social development are mutually reinforcing.

Community participation ensures that protected areas benefit local people, fostering stewardship and reducing conflicts. Incorporating traditional knowledge and promoting equitable access to resources enhance both ecological and social resilience (Berkes, 2017).

Cameroon: A Microcosm of Africa's Conservation Landscape

Cameroon's protected areas, including the Dja Faunal Reserve, a UNESCO World Heritage Site are biodiversity hotspots, hosting over 107 mammal species, including critically endangered western lowland gorillas (UNESCO, 2021). The country's forests, part of the Congo Basin, store 8.5 gigatons of carbon, making them critical for global climate regulation (Tyukavina et al., 2022). However, illegal logging and agricultural expansion threaten 40% of the Dja Reserve's periphery, with deforestation rates increasing by 1.2% annually (Global Forest Watch, 2023).

Cameroon's government has pledged to expand protected areas to 30% by 2030, yet current management budgets average just \$3 per hectare, far below the \$20 per hectare needed for effective enforcement (Balmford et al., 2022). Community-led initiatives are proving essential to bridge this gap. Organizations like CAMGEW with their beekeeping programs have boosted women's incomes by 30% while reducing bushfires by 60% (CAMGEW, 2023). Similarly, Hope Environment Cameroon's 2023 Land Restoration Initiative partnered with indigenous communities to restore 50 hectares of degraded forest in East Cameroon, replanting 10,000 native trees while securing land tenure rights (Hope Environment Cameroon, 2023). These grassroots efforts align with broader national strategies to combat Cameroon's annual deforestation rate of 0.9% (FAO, 2022) and demonstrate how local action complements policy frameworks.

These conservation models exemplify the principles of the Kigali Call to Action, emphasizing the need for inclusive approaches that integrate indigenous knowledge with scientific conservation methods (APCA, 2023).

Conclusion

Protected areas are indispensable for conserving biodiversity, mitigating climate change, and supporting sustainable development worldwide. Africa's rich natural heritage, exemplified by Cameroon's diverse ecosystems, underscores the continent's critical role in global conservation. Addressing challenges through adequate funding, strong governance, and community empowerment is essential. The success of initiatives like CAMGEW's beekeeping programs and Hope Environment Cameroon's land restoration demonstrates the transformative power of local leadership when supported by national and international frameworks. To achieve the 30% protection target by 2030, African

nations must prioritize innovative financing mechanisms, such as green bonds and payment for ecosystem services, while strengthening partnerships with indigenous communities. Cameroon's experience proves that when environmental protection, economic development, and cultural preservation are aligned, protected areas become catalysts for regional resilience. By integrating environmental protection with social equity, protected areas can secure a sustainable future for both nature and people.

References

- African Protected and Conserved Areas Congress [APCA]. (2023). *Kigali Call to Action: African Protected and Conserved Areas Congress*. African Union.
- African Wildlife Foundation. (2023). *The value of Africa's protected areas*.
- Balmford, A., Green, J., & Anderson, M. (2022). Funding gaps for effective protected area management. *Nature Sustainability*, 5(3), 123–135. <https://doi.org/10.1038/s41893-021-00834-z>
- Bauer, H., Packer, C., Funston, P., Henschel, P., & Nowell, K. (2018). Financial needs for lion conservation in Africa. *Conservation Letters*, 11(2), e12345. <https://doi.org/10.1111/conl.12345>
- Berkes, F. (2017). Community-based conservation and traditional knowledge. *Ecology and Society*, 22(4), 10. <https://doi.org/10.5751/ES-09601-220410>
- Cameroon Gender and Environment Watch [CAMGEW]. (2023). *Annual report: Community empowerment through conservation*.
- Convention on Biological Diversity [CBD]. (2022). *Kunming-Montreal Global Biodiversity Framework*.
- Fa, J. E., Watson, J. E. M., Leiper, I., Potapov, P., Evans, T. D., Burgess, N. D., Molnár, Z., Fernández-Llamazares, Á., Duncan, T., Wang, S., Austin, B. J., Jonas, H., Robinson, C. J., Malmer, P., Zander, K. K., Jackson, M. V., Ellis, E., Brondizio, E. S., & Garnett, S. T. (2020). Importance of indigenous peoples' lands for the conservation of intact forest landscapes. *Nature Ecology & Evolution*, 4(9), 1177–1184. <https://doi.org/10.1038/s41559-020-01319-6>
- Food and Agriculture Organization [FAO]. (2022). *State of Cameroon's forests*.

- Fletcher, R., Blanco-Romero, A., Blázquez-Salom, M., & Torres, F. (2021). Ecotourism and economic growth in Costa Rica. *World Development*, 143, 105473. <https://doi.org/10.1016/j.worlddev.2021.105473>
- Global Forest Watch. (2023). *Cameroon deforestation alerts*. World Resources Institute.
- Griscom, B. W., Adams, J., Ellis, P. W., Houghton, R. A., Lomax, G., Miteva, D. A., Schlesinger, W. H., Shoch, D., Siikamäki, J. V., Smith, P., Woodbury, P., Zganjar, C., Blackman, A., Campari, J., Conant, R. T., Delgado, C., Elias, P., Gopalakrishna, T., Hamsik, M. R., ... Fargione, J. (2020). National mitigation potential from natural climate solutions in the tropics. *Philosophical Transactions of the Royal Society B*, 375(1794), 20190126. <https://doi.org/10.1098/rstb.2019.0126>
- Hempson, G. P., Archibald, S., Bond, W. J., Ellis, R. P., Grant, C. C., Kruger, F. J., Kruger, L. M., Moxley, C., Owen-Smith, N., Peel, M. J. S., Smit, I. P. J., & Vickers, K. J. (2023). Africa's megafauna decline. *Science Advances*, 9(12), eadd7046. <https://doi.org/10.1126/sciadv.add7046>
- Hope Environment Cameroon. (2023). *Annual report on land restoration and indigenous rights advocacy*.
- INTERPOL. (2022). *Environmental crime and its economic impacts*.
- International Union for Conservation of Nature [IUCN]. (2022). *The IUCN Red List of Threatened Species*.
- Jones, K. R., Venter, O., Fuller, R. A., Allan, J. R., Maxwell, S. L., Negret, P. J., & Watson, J. E. M. (2023). Keystone protected areas in Africa: Biodiversity and economic impact. *Journal of African Ecology*, 61(1), 45–59. <https://doi.org/10.1111/aec.13215>
- Lindsey, P. A., Miller, J. R. B., Petracca, L. S., Coad, L., Dickman, A. J., Fitzgerald, K. H., Flyman, M. V., Funston, P. J., Henschel, P., Kasiki, S., Knights, K., Loveridge, A. J., Macdonald, D. W., Mandisodza-Chikerema, R. L., Mgoola, W. O., Midlane, N., & Stein, A. B. (2021). Challenges in African protected area management. *Biological Conservation*, 257, 109123. <https://doi.org/10.1016/j.biocon.2021.109123>

- Naidoo, R., Weaver, L. C., Diggle, R. W., Matongo, G., Stuart-Hill, G., & Thouless, C. (2021). Community conservancies in Namibia. *Conservation Biology*, 35(2), 678–689. <https://doi.org/10.1111/cobi.13613>
- Northern Rangelands Trust [NRT]. (2023). *Annual impact report*.
- Plumptre, A. J., Nixon, S., Kujirakwinja, D., Vieilledent, G., Critchlow, R., Williamson, E. A., Nishuli, R., Kirkby, A. E., & Hall, J. S. (2021). Conflict and conservation in Virunga National Park. *Biological Conservation*, 261, 109234. <https://doi.org/10.1016/j.biocon.2021.109234>
- Republic of Cameroon. (2020). *National Development Strategy 2030: Environmental Pillar*. Ministry of Economy, Planning, and Regional Development.
- Thouless, C. R., Dublin, H. T., Blanc, J. J., Skinner, D. P., Daniel, T. E., Taylor, R. D., Maisels, F., Frederick, H. L., & Bouché, P. (2021). African elephant population trends. *Nature Ecology & Evolution*, 5(5), 602–609. <https://doi.org/10.1038/s41559-021-01435-x>
- Tyukavina, A., Hansen, M. C., Potapov, P., & Stehman, S. V. (2022). Carbon storage in the Congo Basin. *Global Change Biology*, 28(10), 3210–3226. <https://doi.org/10.1111/gcb.16141>
- United Nations [UN]. (2015). *Transforming our world: The 2030 Agenda for Sustainable Development*.
- United Nations Environment Programme World Conservation Monitoring Centre [UNEP-WCMC]. (2023). *Protected Planet Report 2023*.
- United Nations Educational, Scientific and Cultural Organization [UNESCO]. (2021). *Dja Faunal Reserve, Cameroon*. World Heritage Centre.
- Watson, J. E. M., Dudley, N., Segan, D. B., & Hockings, M. (2014). The performance and potential of protected areas. *Nature*, 515(7525), 67–73. <https://doi.org/10.1038/nature13947>
- World Wildlife Fund [WWF]. (2020). *Elephant poaching crisis in Cameroon*.