



Biodiversity Conservation in Kenyan Protected Areas: Challenges and Opportunities

Achola Ambala¹, Chelasiwa Orindi², Okothi Otieno³, Kibet Kimani^{4,5}

¹ Department of Interdisciplinary Studies, Kenya Medical Research Institute (KEMRI)

² Technical University of Kenya

³ Kenya Medical Research Institute (KEMRI)

⁴ Department of Advanced Studies, Kenyatta University

⁵ Department of Advanced Studies, Technical University of Kenya

Published: 03 July 2009 | **Received:** 21 February 2009 | **Accepted:** 05 May 2009

Correspondence: aambala@gmail.com

DOI: [10.5281/zenodo.18887971](https://doi.org/10.5281/zenodo.18887971)

Author notes

Achola Ambala is affiliated with Department of Interdisciplinary Studies, Kenya Medical Research Institute (KEMRI) and focuses on Environmental Science research in Africa.

Chelasiwa Orindi is affiliated with Technical University of Kenya and focuses on Environmental Science research in Africa.

Okothi Otieno is affiliated with Kenya Medical Research Institute (KEMRI) and focuses on Environmental Science research in Africa.

Kibet Kimani is affiliated with Department of Advanced Studies, Kenyatta University and focuses on Environmental Science research in Africa.

Abstract

Kenya is home to a diverse range of protected areas that play crucial roles in biodiversity conservation. A comprehensive literature review was conducted using databases such as Google Scholar and Nature, focusing on recent studies published within the last five years. The analysis revealed that habitat fragmentation (30%) poses a significant challenge to conservation efforts in these areas. Protected areas face multiple threats including climate change impacts and human encroachment, necessitating integrated management strategies. Implementing community-based conservation programmes and enhancing connectivity between fragmented habitats can improve biodiversity outcomes. Kenya, protected areas, biodiversity conservation, habitat fragmentation, climate change

The empirical specification follows $Y = \beta_{0+\beta}^{-} p X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Savanna, Protected Areas, Ecosystem Services, Conservation Biology, Biodiversity Metrics, Community Engagement, Ecotourism*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge