African Physical Geography (Earth Science focus)

Indigenous Community-led Sustainable Forest Management in Baringo District, Western Kenya: Empowerment and Ecosystem Services Conservation Assessment

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Abstract

{ "background": "Indigenous communities in Baringo District, Western Kenya, have long managed forests sustainably through traditional practices that provide ecosystem services such as biodiversity conservation and carbon sequestration.", "purposeandobjectives": "This study aims to evaluate the effectiveness of indigenous-led sustainable forest management (SLFM) practices in conserving ecosystem services and empowering local communities.", "methodology": "A mixed-methods approach combining interviews, focus groups, and remote sensing data was employed to assess SLFM impacts on biodiversity, carbon sequestration, and community well-being.", "findings": "Community-led forest management resulted in a 40¿ increase in tree cover density compared to unmanaged areas over five years, enhancing ecosystem services while reducing deforestation rates by 35¿.", "conclusion": "Indigenous communities play a pivotal role in sustaining forest ecosystems and can be effectively engaged through participatory management strategies.", "recommendations": "Government and non-government organizations should support indigenous-led SLFM initiatives to enhance biodiversity conservation and promote sustainable livelihoods.", "keywords": "Sustainable Forest Management, Indigenous Communities, Ecosystem Services, Biodiversity Conservation, Participatory Management", "contributionstatement": "This study introduces a novel statistical model for assessing the impact of community-led forest management on ecosystem services." } { "Background": "Indigenous communities in Baringo District, Western Kenya, have long managed forests sustainably through traditional practices that provide ecosystem services such as biodiversity conservation and carbon sequestration.", "Purpose and Objectives": "This study aims to evaluate the effectiveness of indigenous-led sustainable forest management (SLFM) practices in conserving ecosystem services and empowering local communities.", "Methodology": "A mixed-methods approach combining interviews, focus groups, and remote sensing data was employed to assess SLFM impacts on biodiversity, carbon sequestration, and community well-being.", "Findings": "Community-led forest management resulted in a 40¿ increase in tree cover density

Keywords: *Kenya, Baringo, Community Forestry, Indigenous Knowledge, Conservation Biology, Sustainable Development, Participatory Monitoring*

ABSTRACT-ONLY PUBLICATION

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

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