



Climate Change Adaptation Strategies in Sahelian Pastoralist Systems: A Methodological Framework

Iskander Xasan¹, Hassan Ahmed^{1,2}, Abdirahman Yusuf³, Mohamed Ali^{2,4}

¹ Department of Soil Science, Benadir University

² Somali National University

³ Amoud University

⁴ Department of Crop Sciences, Mogadishu University

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Correspondence: ixasan@yahoo.com

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Author notes

Iskander Xasan is affiliated with Department of Soil Science, Benadir University and focuses on Agriculture research in Africa.

Hassan Ahmed is affiliated with Somali National University and focuses on Agriculture research in Africa.

Abdirahman Yusuf is affiliated with Amoud University and focuses on Agriculture research in Africa.

Mohamed Ali is affiliated with Somali National University and focuses on Agriculture research in Africa.

Abstract

Sahelian pastoralist systems are vulnerable to climate change impacts such as droughts and floods, necessitating adaptive strategies. A mixed-method approach combining qualitative interviews ($n=30$) with remote sensing data to analyse land use $\frac{\text{patterns}}{10}$ years. Remote sensing revealed significant changes in vegetation cover, indicating shifts in pasture availability and water resources. The methodological framework provides a robust tool for monitoring climate-induced landscape transformations in pastoralist areas. Implementing the framework could facilitate more targeted interventions to support resilience-building in Sahelian regions.

Keywords: Sahelian, pastoralism, climate resilience, mixed methods, adaptation models, GIS, ethnography

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