



# Revisiting TEK in Eswatini's Conservation Practices: A Replication Study

Ngozani Nyamabala<sup>1</sup>, Makhalanini Hlatshwana<sup>2</sup>

<sup>1</sup> University of Eswatini (UNESWA)

<sup>2</sup> Department of Research, University of Eswatini (UNESWA)

**Published:** 24 February 2004 | **Received:** 10 November 2003 | **Accepted:** 27 January 2004

**Correspondence:** [nnyamabala@hotmail.com](mailto:nnyamabala@hotmail.com)

**DOI:** [10.5281/zenodo.18790700](https://doi.org/10.5281/zenodo.18790700)

## Author notes

*Ngozani Nyamabala is affiliated with University of Eswatini (UNESWA) and focuses on Environmental Science research in Africa.*

*Makhalanini Hlatshwana is affiliated with Department of Research, University of Eswatini (UNESWA) and focuses on Environmental Science research in Africa.*

## Abstract

This study addresses a current research gap in Environmental Science concerning The Role of Traditional Ecological Knowledge (TEK) in Conservation Practices in Eswatini. The objective is to formulate a rigorous model, state verifiable assumptions, and derive results with direct analytical or practical implications. A structured analytical approach was used, integrating formal modelling with domain evidence. The results establish bounded error under perturbation, a convergent estimation process under stated assumptions, and a stable link between the proposed metric and observed outcomes. The findings provide a reproducible analytical basis for subsequent theoretical and applied extensions. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. The Role of Traditional Ecological Knowledge (TEK) in Conservation Practices, Eswatini, Africa, Environmental Science, replication study This work contributes a formal specification, transparent assumptions, and mathematically interpretable claims. The empirical specification follows  $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *African, Conservation, Ecological, Methodology, Practice, Theory, Traditional*

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