



Climate Change Adaptation Strategies for West African Coastal Communities in Morocco: An Intervention Study

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Abstract

Coastal communities in Morocco are vulnerable to climate change impacts such as sea-level rise and increased storm intensity. A mixed-methods approach combining qualitative interviews with quantitative surveys to assess community needs and preferences. Community members identified mangrove restoration as the most preferred strategy (85% preference), followed by early warning systems (60%). The study recommends integrated climate adaptation interventions including mangrove conservation programmes and enhanced early warning systems. Implement community-led initiatives with government support to enhance local resilience against climate change impacts. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Coastal Dynamics, Climate Vulnerability, Adaptation Strategies, Anthropogenic Impacts, Geographical Indicators, Environmental Change, Qualitative Analysis*

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