



Climate Justice Adaptation Financing in Vulnerable African Regions: A Longitudinal Study in Niger

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Abstract

Climate justice perspectives emphasise fair and equitable distribution of resources for climate adaptation in vulnerable regions. A longitudinal study using mixed-methods approach including surveys, focus groups, and administrative data to assess climate resilience strategies. Significant variations were observed in the allocation of adaptation funds among different regions, with rural areas receiving less compared to urban centers. Climate justice principles are underutilized in current financing mechanisms for adaptation efforts in Niger. Integrate climate justice principles into national and regional adaptation plans to ensure equitable distribution of resources. The empirical specification follows $Y = \beta_{0+\beta} X + \text{varepsilon}$, and inference is reported with uncertainty-aware statistical criteria.

Keywords: *Geographical Indicators, Methodological Rigour, Climate Resilience, Resource Equity, Sustainable Development, Vulnerability Studies, Adaptation Strategies*

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